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# AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY

## APPENDIX I

HEC-6 Input Files

DEPARTMENT OF CIVIL ENGINEERING

College of Engineering and Applied Sciences
Arizona State University
Tempe, Arizona 85287-5306

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# AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY

## APPENDIX I

HEC-6 Input Files

# APPENDIX I.1 - MODEL I

# APPENDIX I.1.1 - MODEL I (50-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL I
T3
NC 0.070    0.040    0.044       .1       .3
X1 0.160     47.0     8000    12725      470      460      465
GR 924.4   4925.0    924.2   5199.0   921.8   5600.0   919.5   5760.0   919.4   5959.0
GR 920.9   6245.0    920.8   6516.0   919.3   6554.0   919.8   6850.0   919.6   7271.0
GR 920.5   7535.0    917.6   8136.0   917.4   8339.0   912.3   8356.0   917.2   8376.0
GR 916.4   8991.0    914.0   9212.0   911.6   9231.0   913.2   9494.0   911.8   9720.0
GR 910.7  10000.0    909.6  10136.0   921.6  10167.0   923.0  10184.0   913.7  10213.0
GR 913.7  10477.0    917.1  10590.0   916.6  10873.0   910.5  10909.0   910.5  11042.0
GR 915.2  11068.0    912.1  11265.0   911.5  11516.0   908.3  11664.0   910.4  11830.0
GR 916.1  11911.0    914.1  12098.0   914.9  12628.0   922.1  12652.0   922.7  12725.0
GR 916.5  12758.0    916.8  13671.0   916.2  14363.0   917.2  14971.0   917.8  15391.0
GR 913.5  15403.0    920.3  15459.0
HD 0.160       10     8000    12725
NC 0.033    0.040    0.039
X1 0.440     40.0     8029    10420     1510     1465     1485
GR 927.5   3107.0    925.0   4575.0   922.8   5984.0   921.8   6974.0   920.3   7816.0
GR 923.1   7847.0    923.3   7915.0   919.1   7942.0   919.1   7995.0   923.7   8029.0
GR 919.5   8152.0    916.2   8640.0   915.1   8999.0   916.8   9023.0   916.7   9798.0
GR 913.9   9815.0    913.5   9842.0   912.8  10000.0   917.6  10016.0   916.2  10201.0
GR 917.0  10263.0    917.7  10313.0   917.7  10385.0   925.2  10420.0   917.7  10455.0
GR 917.8  11076.0    920.3  11103.0   916.9  11133.0   916.4  11365.0   919.1  11391.0
GR 918.7  12229.0    918.8  12650.0   920.6  12691.0   919.8  12785.0   919.6  13644.0
GR 920.4  14355.0    921.0  16110.0   921.8  16630.0   922.9  17240.0   924.0  17640.0
HD 0.440       10     8029    10420
NC 0.034    0.040    0.042
X1 0.730     36.0     8340    12394     1565     1475     1510
GR 926.5   3285.0    926.3   3986.0   925.6   4737.0   925.2   5415.0   925.6   5760.0
GR 925.6   5797.0    925.7   5889.0   925.7   5945.0   924.5   6306.0   924.5   7206.0
GR 924.3   8340.0    921.6   8530.0   921.1   8982.0   919.1   8999.0   918.6   9126.0
GR 921.0   9195.0    920.0   9917.0   917.8   9927.0   917.9  10000.0   916.9  10087.0
GR 928.8  10162.0    919.2  10205.0   917.0  10479.0   919.8  10521.0   918.9  10591.0
GR 928.7  10655.0    919.2  10697.0   919.2  10771.0   922.2  10794.0   921.6  11725.0
GR 922.6  11783.0    924.5  12394.0   924.5  13563.0   924.0  14000.0   924.3  15050.0
GR 926.0   15560
HD 0.730       10     8340    12394
NC 0.040    0.042    0.043
X1 1.330     29.0     8038    10456     3405     3325     3385
GR 934.6   6000.0    933.3   6025.0   932.9   6490.0   931.0   6748.0   931.3   7154.0
GR 931.8   7239.0    933.2   7837.0   934.0   8038.0   931.1   8083.0   929.8   8339.0
GR 931.4   8777.0    929.3   8916.0   931.1   8945.0   929.8   9282.0   929.1   9911.0
GR 927.0  10000.0    925.9  10122.0   925.5  10364.0   932.0  10456.0   925.5  10490.0
GR 931.1  10701.0    931.6  11006.0   930.4  11242.0   934.9  11261.0   931.9  11306.0
GR 933.2  11377.0    934.8  11409.0   936.3  12061.0   941.3  12490.0
HD 1.330       10     8038    10456
NC 0.041    0.040    0.035
X1 1.710       44     9091  10284.4     2000     2585     2480
GR 940.9   5684.9    943.3   5808.0   945.3   6004.6   945.1   6078.9   947.4   6100.1
GR 947.4   6117.9    939.1   6148.7   948.7   6187.8   948.6   6226.4   934.0   6296.9
GR 936.8   6795.4    942.6   6807.8   942.6   6816.3   935.2   6833.2   933.6   7016.1
GR 935.7   7029.0    935.7   7052.6   932.4   7065.5   932.0   7135.0   934.3   7164.7
GR 934.3   7198.3    931.9   7209.5   934.6   7333.9   933.3   7541.5   933.4   7601.4
GR 936.1   7704.9    936.0   8010.3   935.3   8305.9   935.8   8591.1   935.4   8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890     2065     1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6     2700     2945     3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222     1250      655     1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5     2800     1995     2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5      760      635      685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4      165      160      165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603     1575     1585     1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0        0        0
X1 3.734    63.0  9400.9 10599.3       25       25       25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
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GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
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GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
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GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
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GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767       0       0       0
NC   .04    .045    .025
X1 4.094     7.0    9440   10578    1770    1760    1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
X1 4.270    15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270      10    9449   10588
X1 4.700     9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
GR 961.1 10353.0   962.8 10562.0   978.8 10579.0   978.9 10595.0
HD 4.700      10    9451   10588
X1 4.754    53.0  9402.5 10572.4     150     310     225
X3    10
GR 973.0  7150.0   972.7  8115.0   973.6  8831.0   984.3  9296.0   988.1  9402.5
GR 988.1  9427.7   980.6  9427.8   960.3  9445.8   960.3  9525.5   960.3  9525.6
GR 960.3  9537.6   960.3  9537.7   960.3  9641.5   960.3  9641.6   960.3  9653.6
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GR 960.3  9653.7   960.3  9757.4   960.3  9757.5   960.3  9769.5   960.3  9769.6
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GR 960.3  9997.9   960.3 10009.9   960.3 10010.0   960.3 10105.8   960.3 10105.9
GR 960.3 10117.9   960.3 10118.0   960.3 10221.3   960.3 10221.4   960.3 10233.4
GR 960.3 10233.5   960.3 10337.9   960.3 10338.0   960.3 10349.0   960.3 10349.1
GR 960.3 10453.5   960.3 10453.6   960.3 10465.6   960.3 10465.7   960.3 10555.9
GR 981.2 10572.3   988.7 10572.4   988.7 10597.0   987.2 10612.0   978.1 11023.0
GR 978.7 11497.0   980.6 12014.0   982.4 12466.0
HD 4.754      10 9445.8 10555.9
X1 4.790     6.0    9440   10590     357     187     277
GR 980.2  9440.0   964.0  9466.0   961.1 10000.0   964.6 10568.0   980.8 10590.0
GR 980.8 10600.0
HD 4.790      10 9440.0   10590
X1 5.150     9.0    9291   10713    1780    1960    1873
GR 986.0  9275.0   986.0  9291.0   969.9  9310.0   968.1  9678.0   967.4 10000.0
GR 968.7 10469.0   968.9 10691.0   986.0 10713.0   986.0 10720.0
HD 5.150      10    9291   10713
NC  .040    .040    .022
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GR 994.5  9250.7   986.4  9250.8   971.5  9277.5   971.5  9318.7   971.5  9318.8
GR 971.5  9323.4   971.5  9323.5   971.5  9389.9   971.5  9390.0   971.5  9394.5
GR 971.5  9394.6   971.5  9460.9   971.5  9461.0   971.5  9465.6   971.5  9465.7
GR 971.5  9532.1   971.5  9532.2   971.5  9536.8   971.5  9536.9   971.5  9603.3
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GR 971.5  9679.2   971.5  9679.3   971.5  9745.7   971.5  9745.8   971.5  9750.4
GR 971.5  9750.5   971.5  9816.9   971.5  9817.0   971.5  9821.6   971.5  9821.7
GR 971.5  9888.1   971.5  9888.2   971.5  9892.8   971.5  9892.9   971.5  9959.3
GR 971.5  9959.4   971.5  9964.0   971.5  9964.1   971.5 10030.0   971.5 10030.1
GR 971.5 10034.7   971.5 10034.8   971.5 10101.2   971.5 10101.3   971.5 10105.9
GR 971.5 10106.0   971.5 10172.3   971.5 10172.4   971.5 10177.0   971.5 10177.1
GR 971.5 10243.7   971.5 10243.8   971.5 10248.4   971.5 10248.5   971.5 10314.9
GR 971.5 10315.0   971.5 10319.6   971.5 10319.7   971.5 10386.0   971.5 10386.1
GR 971.5 10390.7   971.5 10390.8   971.5 10457.2   971.5 10457.3   971.5 10461.9
GR 971.5 10462.0   971.5 10528.4   971.5 10528.5   971.5 10533.0   971.5 10533.1
GR 971.5 10599.5   971.5 10599.6   971.5 10604.2   971.5 10604.3   971.5 10645.5
GR 989.4 10672.3   997.7 10672.4
HD 5.290      10 9250.8 10672.4
NC   .04     .04    .025
X1 5.380     20.0    9266   10656     305     645     465
GR 993.0  9214.0   987.7  9266.0   985.7  9342.0   972.8  9358.0   972.3  9413.0
GR 972.2  9565.0   972.2  9734.0   972.2  9889.0   972.2  9994.0   971.4 10000.0
GR 971.4 10062.0   971.4 10195.0   974.3 10208.0   974.2 10263.0   974.2 10420.0
GR 974.2 10582.0   974.2 10639.0   988.4 10656.0   988.6 10671.0   982.3 10702.0
HD 5.380      10    9266   10656
NC   .04     .04    .022      .3      .5
X1 5.689      42 9371.3 10552.8    1320    1740    1620
GR 996.9  9371.2   990.8  9371.3   973.9  9399.5   973.9  9488.7   973.9  9488.8
GR 973.9  9496.2   973.9  9496.3   973.9  9606.6   973.9  9606.7   973.9  9614.1
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GR1062.2  9893.0  1049.3  9925.0  1049.0 10000.0  1049.0 10062.0  1060.0 10110.0
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GR1074.2 10502.0
HD 11.80      10    8224   10302
X1 12.38    28.0  9379.0   10302    2885    2885    2885
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GR1055.7  9850.0  1053.3 10000.0  1053.4 10035.0  1060.4 10086.0  1056.7 10286.0
GR1068.9 10302.0  1072.6 10857.0  1078.2 11420.0
HD 12.38      10    9379   10302
X1 13.33      72  9251.1 10758.5    5075    5065    5070
GR1104.9  5540.0  1099.6  5578.0  1107.5  5891.0  1109.7  6222.0  1105.2  6522.0
GR1095.7  6809.0  1091.5  6880.0  1089.0  7130.0  1090.0  7510.0  1090.5  7760.0
GR1088.5  8360.0  1090.0  8660.0  1092.8  9228.2  1093.0  9251.0  1086.4  9251.1
GR1071.5  9268.5  1071.5  9370.4  1071.5  9370.5  1071.5  9379.5  1071.5  9379.6
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NC             .04              .1      .3
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X1 14.85    37.0    9106   10454    2290    2390    2430
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X3     10
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NC                       .3       .5
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GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42       10  9776.8 10225.4
X116.446       64  9768.4 10241.0       95       95       95
X3     10
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HD16.446       10  9768.4 10241.0
X1 16.45       64  9768.4 10241.0       20       20       20
X3     10
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NC  .045     .04
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X1 20.45    18.0  8070.0 10526.0     2955     2955     2955
GR1187.7  8070.0  1180.6  8256.0  1180.3  8565.0  1179.3  8786.0  1180.5  9022.0
GR1178.6  9074.0  1180.7  9230.0  1177.6  9418.0  1175.9  9534.0  1178.0  9686.0
GR1180.3  9704.0  1180.5  9855.0  1174.1 10000.0  1174.4 10191.0  1174.5 10235.0
GR1175.0 10432.0  1229.0 10526.0  1229.2 10586.0
HD 20.45      10     8142    10997
X1 20.92    22.0  7924.0 10707.0     1705     2630     2490
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1187.2  9261.0
GR1187.1  9502.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92      10     7924    10707
X1 21.01    26.0  8125.0 10446.0      180      450      430
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10     8125    10446
X1 21.42    49.0  9359.0 10853.0     2190     2140     2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0    10853
X1 21.76    37.0  9887.0 11304.0     1650     1830     1815
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1203.9  9660.0  1202.0  9887.0
GR1193.9  9915.0  1193.8 10000.0  1193.8 10088.0  1195.6 10103.0  1194.9 10320.0
GR1193.5 10376.0  1193.4 10555.0  1197.3 10579.0  1197.6 10764.0  1195.6 10937.0
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GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.2 11813.0
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GR1203.7 13853.0  1212.4 13935.0  1207.7 13964.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76      10     9887   11304
X1 22.32    29.0 9946.0 12625.0    2655     2480     2940
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
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GR1209.0 12625.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10     9946   12625
NC 0.040   0.031    0.030
X1 22.79    27.0 9941.0 13467.0    2510     2335     2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
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HD 22.79      10     9941   13467
NC 0.040   0.034    0.030
X1 23.35    43.0 9967.0 13219.0    2970     2570     2930
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1222.0  9623.0  1224.6  9642.0
GR1224.2  9967.0  1217.6 10000.0  1218.1 10049.0  1221.3 10198.0  1218.3 10445.0
GR1221.4 10531.0  1223.2 10851.0  1224.6 11047.0  1222.6 11442.0  1220.5 11450.0
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GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10     9967   13219
NC 0.039   0.035    0.030
X1 23.89    39.0  9324   11071    2875     2620     2860
GR1266.8  7830.0  1270.3  7975.0  1256.6  8004.0  1261.3  8023.0  1232.2  8081.0
GR1230.5  8170.0  1232.4  8230.0  1230.6  8450.0  1230.6  8803.0  1232.9  8953.0
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GR1228.1  9829.0  1227.6 10000.0  1227.7 10139.0  1231.6 10382.0  1231.7 10672.0
GR1231.3 10890.0  1228.3 10935.0  1228.4 11039.0  1231.9 11071.0  1231.9 11221.0
GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
GR1235.4 12009.0  1252.5 12101.0  1250.1 12152.0  1251.7 12229.0  1249.1 12295.0
GR1254.4 12406.0  1258.7 12485.0  1259.5 12817.0  1259.5 12913.0
HD 23.89      10     9324   11071
NC 0.040   0.034    0.030
X1 24.35    32.0 7939.0 10201.0    1990     2730     2445
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.8  9652.0
GR1236.5  9664.0  1239.4  9728.0  1238.3  9893.0  1235.2 10000.0  1237.5 10174.0
GR1242.5 10201.0  1242.8 10300.0  1238.2 10325.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10  7939.0 10201.0
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NC 0.038   0.031   0.030
X1 24.54    36.0  9240.0 10227.0     880    1140     980
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
GR1245.6  7636.0  1243.2  7946.0  1243.5  8106.0  1243.4  8353.0  1243.6  8697.0
GR1244.5  8990.0  1244.5  9240.0  1242.9  9311.0  1241.6  9485.0  1242.9  9550.0
GR1242.1  9879.0  1240.3  9989.0  1238.3 10000.0  1238.3 10014.0  1242.7 10058.0
GR1244.6 10227.0  1240.8 10491.0  1242.8 10616.0  1240.2 10736.0  1243.1 10847.0
GR1240.6 11132.0  1239.2 11150.0  1238.8 11312.0  1241.5 11351.0  1239.8 11413.0
GR1243.1 11501.0  1241.6 11750.0  1239.2 11764.0  1239.1 11816.0  1276.1 11876.0
GR1278.6 12013.0
HD 24.54      10    9240   10227
NC 0.030   0.030   0.030
X1 24.90    43.0  9334.0 11529.0     2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
GR1250.9  8530.0  1252.2  8594.0  1251.2  8738.0  1252.8  8845.0  1252.5  9147.0
GR1251.6  9334.0  1248.0  9359.0  1248.2  9467.0  1250.8  9482.0  1252.3  9813.0
GR1248.6  9839.0  1249.7  9933.0  1246.8  9959.0  1246.6 10000.0  1246.6 10037.0
GR1251.0 10053.0  1251.1 10206.0  1247.0 10559.0  1251.4 10684.0  1249.5 10806.0
GR1246.5 10832.0  1246.5 10895.0  1249.8 10918.0  1248.1 11176.0  1249.9 11194.0
GR1250.2 11328.0  1249.2 11417.0  1252.5 11529.0  1251.5 11894.0  1247.3 11933.0
GR1250.3 12174.0  1247.5 12200.0  1248.9 12432.0  1249.5 12596.0  1249.5 12718.0
GR1253.6 12781.0  1250.2 13053.0  1267.8 13098.0
HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
X1 25.37    41.0  9459.0 11916.0     2420    2365    2485
GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
GR1260.3  9509.0  1261.7  9524.0  1261.8  9638.0  1255.1  9673.0  1256.0  9890.0
GR1255.1  9896.0  1255.0 10000.0  1258.4 10016.0  1256.9 10326.0  1259.4 10451.0
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GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
GR1293.1 13301.0
HD 25.37      10    9459   11916
X1 25.59      14    9685   11070     1065    1230    1125
GR1300.0  9640.0  1280.0  9685.0  1264.0  9725.0  1260.0  9790.0  1260.0  9840.0
GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
GR1272.0 11070.0  1276.0 11100.0  1280.0 11120.0  1283.4 11270.0
HD 25.59      10    9685   11070
NC  .040   .040   .030
X1 25.86      25    8220   10215     1425    1495    1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
HD 25.86      10    8220   10215
NC  .041   .041   .033
X1 26.29    26.0    8722   11227     2090    2295    2240
GR1307.9  8275.0  1279.3  8338.0  1278.4  8722.0  1275.7  8754.0  1276.5  8962.0
GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
GR1271.6 10000.0  1273.7 10084.0  1278.8 10120.0  1278.2 10393.0  1278.4 10757.0
GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
GR1280.5 12462.0  1281.9 12794.0  1279.6 12804.0  1312.6 12882.0  1311.4 13079.0
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GR1312.6 13190.0
HD 26.29      10     8722   11227
X1 26.73    30.0     9720   11263    2320    2310    2330
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GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10     9720   11263
NC  .048    .043     .035
X1 27.03    23.0     9679   10553    1660    1020    1590
GR1307.8  9627.0  1301.5  9679.0  1283.2  9723.0  1281.2  9814.0  1282.6  9900.0
GR1287.2  9922.0  1283.5  9949.0  1283.4 10000.0  1283.4 10054.0  1286.2 10079.0
GR1288.9 10450.0  1290.7 10553.0  1288.0 10732.0  1291.0 10749.0  1291.0 11081.0
GR1291.4 12573.0  1293.7 12649.0  1291.4 12657.0  1301.2 12783.0  1303.3 12821.0
GR1300.5 12889.0  1319.6 12961.0  1330.8 13050.0
HD 27.03      10     9679   10553
NC  .040    .040     .035
X1 27.68    35.0     8224   10125    4120    3200    3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
GR1297.0  8243.0  1298.6  8317.0  1299.3  8587.0  1302.4  8679.0  1298.7  8774.0
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GR1312.1 10728.0  1309.4 10746.0  1311.0 10884.0  1330.0 10991.0  1330.2 11145.0
HD 27.68      10     8224   10125
X1 28.12    27.0     9108   10107    2360    2375    2355
GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
GR1309.5  8719.0  1311.3  8878.0  1311.1  9108.0  1307.8  9129.0  1307.5  9182.0
GR1310.6  9258.0  1308.2  9300.0  1310.5  9411.0  1308.6  9524.0  1306.6  9675.0
GR1304.9  9906.0  1304.6 10000.0  1304.6 10076.0  1310.3 10107.0  1310.7 10411.0
GR1306.3 10527.0  1307.3 10680.0  1308.6 10781.0  1308.5 10866.0  1310.8 10916.0
GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10     9108   10107
X1 28.67    36.0     9950   11203    2785    2925    2885
GR1372.7  9450.0  1371.0  9866.0  1311.5  9964.0  1312.2 10000.0  1312.2 10192.0
GR1319.8 10514.0  1316.1 10819.0  1318.6 10989.0  1315.2 11044.0  1320.5 11203.0
GR1321.6 11445.0  1322.3 11634.0  1319.8 11968.0  1318.7 12107.0  1322.5 12170.0
GR1321.3 12228.0  1325.2 12397.0  1326.4 12792.0  1328.9 12823.0  1324.8 12860.0
GR1327.4 12972.0  1345.8 13057.0  1345.8 13259.0  1339.7 13321.0  1341.1 13419.0
GR1352.8 13484.0  1356.1 13572.0  1358.7 13589.0  1358.8 13606.0  1348.0 13629.0
GR1348.2 13655.0  1363.9 13681.0  1363.8 13698.0  1355.7 13713.0  1356.7 13851.0
GR1373.9 13912.0
HD 28.67      10     9950   11203
NC  .042    .042     .035
X1 29.04    33.0     9808   10638    2100    1270    1975
GR1360.0  9770.0  1320.3  9815.0  1317.3  9828.0  1317.2  9859.0  1319.6  9940.0
GR1317.2 10000.0  1317.2 10048.0  1322.9 10073.0  1324.3 10239.0  1324.4 10414.0
GR1321.2 10499.0  1319.4 10584.0  1326.7 10638.0  1326.0 10868.0  1326.7 11104.0
GR1325.3 11444.0  1322.9 11472.0  1324.3 11521.0  1323.1 11750.0  1330.4 11802.0
GR1330.3 12323.0  1331.2 12554.0  1336.4 12706.0  1332.2 12882.0  1335.8 13217.0
GR1343.9 13578.0  1351.5 13599.0  1352.4 13621.0  1344.3 13633.0  1344.4 13654.0
GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
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HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
GR1378.7  9025.0  1375.5  9068.0  1350.7  9135.0  1348.6  9179.0  1332.4  9217.0
GR1333.5  9321.0  1333.9  9460.0  1331.2  9697.0  1328.7  9726.0  1328.4  9758.0
GR1332.9  9782.0  1332.2  9846.0  1327.0  9882.0  1326.7 10000.0  1326.7 10116.0
GR1340.7 10150.0  1343.0 10343.0  1346.5 10482.0  1348.3 10927.0  1347.8 11457.0
GR1349.2 11687.0  1354.2 11697.0  1354.2 11723.0  1345.8 11737.0  1345.8 11763.0
GR1355.3 11783.0  1355.4 11812.0  1352.6 11829.0  1378.3 11981.0
HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
GR1377.8  8825.0  1353.2  9052.0  1337.2  9136.0  1336.3  9285.0  1332.4  9541.0
GR1332.9  9713.0  1334.0  9791.0  1328.9  9812.0  1328.9  9849.0  1331.6 10000.0
GR1331.6 10094.0  1342.3 10133.0  1351.2 10244.0  1345.5 10331.0  1349.1 10528.0
GR1349.1 10688.0  1349.9 10923.0  1353.4 10966.0  1353.4 11037.0  1345.1 11072.0
GR1345.1 11124.0  1352.5 11156.0  1352.5 11163.0  1345.4 11178.0  1345.5 11204.0
GR1353.7 11221.0  1353.4 11251.0  1351.1 11259.0  1353.1 11405.0  1358.4 11533.0
GR1378.5 11635.0
HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
GR1378.4  9270.0  1373.4  9347.0  1338.8  9419.0  1335.4  9475.0  1340.8  9512.0
GR1342.7  9656.0  1338.9  9882.0  1331.2  9924.0  1331.4 10000.0  1332.7 10180.0
GR1337.6 10205.0  1337.6 10215.0  1327.7 10335.0  1336.3 10521.0  1344.4 10610.0
GR1349.2 10676.0
HD 29.80      10    9347   10610
X1 30.07    17.0    9604   10306    1425    1440    1420
GR1369.4  9325.0  1363.9  9463.0  1360.9  9604.0  1341.5  9665.0  1343.1  9728.0
GR1340.8  9781.0  1340.4  9910.0  1344.6  9925.0  1334.4  9986.0  1334.4 10000.0
GR1335.0 10060.0  1344.5 10098.0  1343.6 10114.0  1336.6 10132.0  1334.0 10261.0
GR1365.9 10306.0  1365.0 10356.0
HD 30.07      10    9604   10306
X1 30.26    12.0    9711   10643     870    1090    1005
GR1357.2  9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043  0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
GR1352.0 10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
GR1354.5 11132.0  1399.1 11244.0
HD 30.82      10    9865   11244
NC 0.043  0.043   0.037
X1 31.39    17.0    9470   10633    2900    3165    2970
GR1397.8  9290.0  1386.7  9342.0  1392.7  9386.0  1393.4  9470.0  1356.5  9526.0
GR1354.7  9561.0  1361.2  9643.0  1363.1  9792.0  1359.4  9942.0  1356.8  9978.0
GR1356.9 10000.0  1357.4 10080.0  1361.5 10242.0  1360.1 10387.0  1368.0 10456.0
GR1368.6 10528.0  1407.9 10633.0
HD 31.39      10    9470   10633
X1 31.86    10.0    9490   10321    2550    2485    2505
GR1411.1  8955.0  1408.4  9155.0  1407.3  9490.0  1362.0  9604.0  1364.9  9727.0
GR1366.7  9894.0  1366.7 10000.0  1365.3 10261.0  1394.3 10321.0  1420.6 10419.0
HD 31.86      10    9490   10321
NC 0.043  0.052   0.040
X1 32.43    14.0    9438   10437    2885    2970    2980
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GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
GR1372.6  9692.0  1375.5  9852.0  1373.4  9965.0  1370.7 10000.0  1372.7 10073.0
GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10     9438    10437
NC  .049    .049     .042
X1 32.86    12.0     9719    10564     2405     2135     2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10     9719    10564
NC  .047    .055     .032
X132.984      33     9750    10150      648      648      648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10     9750    10150
X132.998     9.0     9762    10164       72       72       72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10     9762    10164
NC  .060    .050     .050
X1 33.41    12.0     9750    10687     1880     2270     2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
HD 33.41      10     9750    10687
X1 33.82    20.0     9565    10600     2165     2220     2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10     9565    10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                       RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                          PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                                UPDATED ON:  MAY 15, 1992
T8      **********************************************************************
I1             10       0       0   0.999  32.174
I4              9       1      10    2.65       0       0       0       0       0
I5             .5      .5     .25      .5     .25       0     1.0
LQ      Q    0.01    4000.   20000.  40000.  60000.  85000.
LT     QS    0.01    3082.   26604.  56358.  97056. 155824.
LF    VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF     FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF     MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF     CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF    VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF    VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF     FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF     MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
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LF     CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF    VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160          0.20997 0.20997 0.88000          0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N  0.440          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  0.730          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  1.330          0.20997 0.04955 0.95000          0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N  1.710          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.020          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.600          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  2.800          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  3.270          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.400          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.430          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.729          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.734          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.757          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.767          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  4.094          0.20997 0.12303 0.95000          0.00327 0.05913 0.08985 0.23156
N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N  4.270          0.20997 0.13909 0.95000          0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
N  4.700          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  4.754          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  4.790          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  5.150          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.290          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.380          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.689          0.10499 0.04007 0.95000          0.09244 0.10394 0.16384 0.07407
N         0.12482 0.03636 0.03411 0.05742 0.02210 0.00000
N  5.750          0.20997 0.11371 0.95000          0.02514 0.02121 0.03410 0.05761
N         0.13374 0.10182 0.14009 0.12020 0.21110 0.09680
N  5.900          0.10499 0.04675 0.95000          0.00167 0.07000 0.11471 0.29051
N         0.23478 0.07273 0.09569 0.07263 0.03895 0.00000
N  6.430          0.20997 0.08439 0.95000          0.02065 0.09227 0.24746 0.14997
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N         0.18326 0.08153 0.05486 0.06285 0.05857 0.03609
N  6.890          0.20997 0.20997 0.84606          0.05655 0.02661 0.04201 0.09060
N         0.05774 0.05564 0.06069 0.06744 0.08595 0.09895
N  6.990          0.20997 0.20997 0.84606          0.05655 0.02661 0.04201 0.09060
N         0.05774 0.05564 0.06069 0.06744 0.08595 0.09895
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N         0.20723 0.07724 0.10130 0.11629 0.10762 0.08706
N  8.000          0.20997 0.20029 0.93000          0.00728 0.02929 0.11102 0.30828
N         0.11991 0.06713 0.05201 0.03858 0.09855 0.08010
N  8.100          0.20997 0.20029 0.93000          0.00728 0.02929 0.11102 0.30828
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N         0.13594 0.03971 0.06124 0.08775 0.09780 0.15346
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N         0.16235 0.06298 0.06926 0.07354 0.08927 0.06065
N  9.900          0.20997 0.20997 0.87760          0.01003 0.04333 0.06706 0.20555
N         0.21739 0.05091 0.06699 0.06316 0.06695 0.06960
N 10.530          0.20997 0.20997 0.85647          0.00421 0.02127 0.02914 0.08658
N         0.09678 0.06727 0.09878 0.11776 0.14108 0.18527
N 10.720          0.20997 0.17890 0.95000          0.01403 0.05790 0.06375 0.08512
N         0.15652 0.12291 0.12520 0.11966 0.12088 0.09563
N 11.010          0.20997 0.14758 0.95000          0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N 11.340          0.20997 0.14758 0.95000          0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
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N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N 11.800          0.10998 0.00902 0.95000          0.00841 0.06483 0.42620 0.23369
N         0.19681 0.02778 0.02211 0.00930 0.00120 0.00000
N 12.380          0.20997 0.16713 0.95000          0.10927 0.13597 0.22075 0.10297
N         0.11958 0.04334 0.05466 0.04851 0.03611 0.10827
N 13.330          0.20997 0.10583 0.95000          0.05550 0.05080 0.07292 0.04479
N         0.09799 0.06870 0.10593 0.15285 0.13318 0.05245
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N 14.380          0.20997 0.09819 0.95000          0.00447 0.05807 0.15095 0.21462
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N 14.850          0.20997 0.11106 0.95000          0.00567 0.02743 0.10279 0.14192
N         0.25589 0.10218 0.09875 0.10644 0.10064 0.05619
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N 15.320          0.20997 0.13913 0.95000          0.00897 0.05446 0.12768 0.12385
N         0.13632 0.08684 0.12677 0.10791 0.11463 0.10576
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N 15.980          0.20997 0.19271 0.95000          0.00665 0.01037 0.17808 0.06168
N         0.07674 0.05549 0.08591 0.10635 0.17505 0.20952
N 16.420          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
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N 20.450          0.20997 0.08406 0.95000          0.01627 0.08943 0.29824 0.30511
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N 20.920          0.20997 0.09533 0.95000          0.01051 0.04217 0.22588 0.24623
N         0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.010          0.20997 0.09533 0.95000          0.01051 0.04217 0.22588 0.24623
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N 21.420          0.20997 0.05955 0.95000          0.01704 0.08013 0.20148 0.35467
N         0.12095 0.07181 0.04617 0.04132 0.03584 0.02276
N 21.760          0.20997 0.04146 0.95000          0.01327 0.08040 0.20053 0.33463
N         0.13927 0.09282 0.05630 0.03361 0.02823 0.01194
N 22.320          0.20997 0.07723 0.95000          0.00642 0.05957 0.24449 0.17159
N         0.20383 0.07884 0.07927 0.07423 0.05525 0.02601
N 22.790          0.20997 0.08817 0.95000          0.00295 0.08040 0.22208 0.27401
N         0.17304 0.05433 0.05972 0.05074 0.04780 0.03442
N 23.350          0.20997 0.17333 0.95000          0.00669 0.05531 0.12720 0.18266
N         0.15313 0.06654 0.09027 0.09565 0.09806 0.09687
N 23.890          0.20997 0.16437 0.95000          0.00102 0.01100 0.18103 0.17308
N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 24.350          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
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N 24.540          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
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N         0.17234 0.05644 0.06754 0.10076 0.11634 0.06850
N 25.370          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.590          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
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N 25.860          0.20997 0.10795 0.95000          0.00538 0.03093 0.08500 0.21779
N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000          0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000          0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000          0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000          0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000          0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000          0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000          0.00510 0.00977 0.02614 0.06339
```

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N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.260          0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000         0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000         0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000         0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061         0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B            2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q  5875.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q  5875.   1250.
```

```
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 11750.   2500.
X            0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 11750.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 17625.   3750.
X            0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 17625.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 23500.   5000.
X            0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 23500.   5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 17625.   3750.
X            0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 17625.   3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 11750.   2500.
X            0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 11750.   2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q  5875.   1250.
X            0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q  5875.   1250.
W   0.05
$$END
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# APPENDIX I.1.2 - MODEL I (100-YEAR)

```
T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL I
T3
NC 0.070   0.040   0.044      .1      .3
X1 0.160    47.0    8000   12725     470     460     465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160      10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420    1510    1465    1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440      10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394    1565    1475    1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0   15560
HD 0.730      10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456    3405    3325    3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330      10    8038   10456
NC 0.041   0.040   0.035
X1 1.710      44    9091 10284.4    2000    2585    2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890    2065    1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6    2700    2945    3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222    1250     655    1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5    2800    1995    2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5     760     635     685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4     165     160     165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603    1575    1585    1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0       0       0
X1 3.734    63.0  9400.9 10599.3      25      25      25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767       0       0       0
NC   .04    .045    .025
X1 4.094     7.0    9440   10578    1770    1760    1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
X1 4.270    15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270      10    9449   10588
X1 4.700     9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
GR 961.1 10353.0   962.8 10562.0   978.8 10579.0   978.9 10595.0
HD 4.700      10    9451   10588
X1 4.754    53.0  9402.5 10572.4     150     310     225
X3    10
GR 973.0  7150.0   972.7  8115.0   973.6  8831.0   984.3  9296.0   988.1  9402.5
GR 988.1  9427.7   980.6  9427.8   960.3  9445.8   960.3  9525.5   960.3  9525.6
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X1 11.01      53    8515   10287    1610    1320    1430
GR1049.7  6400.0  1047.4  6457.0  1048.1  6533.0  1048.3  6651.0  1047.0  6742.0
GR1046.1  6822.0  1048.1  6893.0  1048.6  7019.0  1049.3  7141.0  1048.6  7259.0
GR1048.2  7375.0  1048.3  7481.0  1046.6  7595.0  1046.8  7741.0  1047.2  7866.0
GR1046.8  7991.0  1046.1  8135.0  1045.4  8248.0  1045.2  8375.0  1048.4  8429.0
GR1047.4  8461.0  1050.3  8515.0  1045.5  8604.0  1039.5  8661.0  1043.2  8720.0
GR1035.4  8799.0  1035.4  8886.0  1036.1  9006.0  1037.2  9088.0  1037.9  9148.0
GR1039.2  9236.0  1036.2  9326.0  1036.4  9397.0  1039.4  9494.0  1040.0  9608.0
GR1039.0  9730.0  1038.5  9834.0  1038.8  9937.0  1036.5 10000.0  1045.1 10102.0
GR1045.3 10148.0  1046.4 10178.0  1045.5 10236.0  1046.8 10287.0  1046.8 10389.0
GR1046.4 10522.0  1041.4 10589.0  1045.3 10634.0  1045.9 10739.0  1045.9 10835.0
GR1046.2 10977.0  1047.2 11138.0  1051.5 11275.0
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HD 11.01      10    8515   10287
NC 0.045   0.055   0.035     0.4     0.6
X1 11.34      41    9573   10178     885    1855    1680
X3    10
GR1049.1  6097.0  1050.4  6114.0  1047.0  6152.0  1047.7  6201.0  1049.6  6389.0
GR1050.2  6573.0  1049.9  6724.0  1048.9  6894.0  1048.4  7061.0  1048.0  7226.0
GR1050.1  7357.0  1048.8  7509.0  1047.8  7702.0  1049.0  7871.0  1050.1  8017.0
GR1050.4  8177.0  1051.2  8348.0  1050.4  8493.0  1050.6  8658.0  1050.8  8828.0
GR1051.0  8974.0  1051.4  9123.0  1048.5  9224.0  1046.8  9298.0  1062.4  9365.0
GR1062.6  9390.0  1046.1  9428.0  1054.3  9573.0  1048.6  9601.0  1044.1  9675.0
GR1042.0  9722.0  1042.5  9771.0  1041.4  9803.0  1041.3  9942.0  1041.3 10000.0
GR1041.9 10147.0  1056.6 10178.0  1056.8 10295.0  1060.3 10368.0  1060.5 10482.0
GR1061.0 10597.0
HD 11.34      10    9573   10178
NC                     0.1     0.3
X1 11.52      36    9873   10117     980     980     980
GR1052.4  5930.0  1052.0  5988.0  1055.4  6027.0  1050.7  6060.0  1051.7  6182.0
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GR1051.8  6962.0  1048.2  7089.0  1050.0  7210.0  1050.4  7345.0  1050.6  7465.0
GR1050.4  7550.0  1050.8  7652.0  1052.4  7800.0  1052.6  7916.0  1051.9  7950.0
GR1051.9  8550.0  1049.5  8600.0  1049.5  9501.0  1049.3  9665.0  1049.3  9745.0
GR1053.5  9840.0  1054.1  9873.0  1042.4  9922.0  1045.6  9964.0  1045.6 10000.0
GR1045.6 10082.0  1058.5 10117.0  1062.5 10209.0  1063.8 10315.0  1065.6 10431.0
GR1066.9 10534.0
HD 11.52      10    9873   10117
X1 11.80      46    8224   10302    1415    1415    1415
GR1067.1  5780.0  1059.5  5793.0  1056.6  5830.0  1056.5  5946.0  1059.8  5964.0
GR1051.8  5983.0  1051.7  5996.0  1056.2  6015.0  1056.2  6032.0  1056.5  6147.0
GR1054.7  6200.0  1054.7  7200.0  1054.6  7406.0  1059.6  7529.0  1058.4  7629.0
GR1054.9  7711.0  1054.7  7825.0  1054.1  7909.0  1054.2  8003.0  1063.1  8113.0
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GR1051.6  8950.0  1064.5  8998.0  1072.8  9070.0  1061.9  9175.0  1060.0  9249.0
GR1060.3  9379.0  1059.9  9514.0  1060.2  9635.0  1060.8  9771.0  1059.9  9852.0
GR1062.2  9893.0  1049.3  9925.0  1049.0 10000.0  1049.0 10062.0  1060.0 10110.0
GR1063.6 10163.0  1072.3 10233.0  1076.2 10302.0  1075.0 10388.0  1072.1 10447.0
GR1074.2 10502.0
HD 11.80      10    8224   10302
X1 12.38    28.0  9379.0   10302    2885    2885    2885
GR1064.9  6240.0  1064.9  7002.0  1064.9  7519.0  1058.8  7538.0  1059.1  7761.0
GR1064.6  7806.0  1063.0  8056.0  1057.9  8112.0  1062.6  8159.0  1057.8  8303.0
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GR1064.2  9379.0  1055.9  9491.0  1053.7  9566.0  1062.0  9621.0  1057.6  9676.0
GR1055.7  9850.0  1053.3 10000.0  1053.4 10035.0  1060.4 10086.0  1056.7 10286.0
GR1068.9 10302.0  1072.6 10857.0  1078.2 11420.0
HD 12.38      10    9379   10302
X1 13.33      72  9251.1  10758.5    5075    5065    5070
GR1104.9  5540.0  1099.6  5578.0  1107.5  5891.0  1109.7  6222.0  1105.2  6522.0
GR1095.7  6809.0  1091.5  6880.0  1089.0  7130.0  1090.0  7510.0  1090.5  7760.0
GR1088.5  8360.0  1090.0  8660.0  1092.8  9228.2  1093.0  9251.0  1086.4  9251.1
GR1071.5  9268.5  1071.5  9370.4  1071.5  9370.5  1071.5  9379.5  1071.5  9379.6
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GR1090.1 11080.0  1088.0 11380.0  1090.4 11740.0  1096.7 12172.0  1097.3 12475.0
GR1099.6 12607.0  1100.0 13232.0
HD 13.33      10  9251.1 10758.5
X1 13.81    30.0    9250   10525    2575    2575    2575
GR1099.0  6280.0  1088.1  6333.0  1083.9  6543.0  1085.6  6895.0  1085.6  7105.0
GR1082.3  7145.0  1085.1  7198.0  1080.5  7254.0  1085.4  7285.0  1083.6  7601.0
GR1084.8  7867.0  1083.6  8402.0  1085.4  8555.0  1083.0  8776.0  1086.0  8816.0
GR1085.3  9250.0  1081.7  9271.0  1081.5  9580.0  1078.6  9597.0  1078.6 10000.0
GR1078.4 10183.0  1082.8 10226.0  1080.2 10454.0  1085.1 10525.0  1087.0 10634.0
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HD 13.81      10    9250   10525
NC          .04              .1      .3
X1 14.38    36.0    8210   10691    2410    3365    2965
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
GR1091.0  6950.0  1092.0  7095.0  1093.3  7380.0  1092.0  7990.0  1092.0  8125.0
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GR1088.0  9838.0  1084.4 10000.0  1084.4 10065.0  1092.0 10085.0  1092.6 10234.0
GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38      10    8210   10691
X1 14.85    37.0    9106   10454    2290    2390    2430
GR1126.8  7870.0  1130.3  8231.0  1131.5  8555.0  1129.3  8905.0  1109.1  8978.0
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GR1100.4 11172.0  1099.7 11409.0  1095.9 11456.0  1096.9 11575.0  1099.9 11720.0
GR1098.0 12018.0  1098.8 12225.0  1104.1 12350.0  1104.3 12771.0  1106.2 12981.0
GR1104.0 13275.0  1104.0 13521.0  1104.0 13777.0  1111.1 13842.0  1109.6 13895.0
GR1112.3 14491.0  1113.0 14537.0
HD 14.85      10    9106   10454
X1 14.94    39.0    9140   10772     470     470     470
GR1128.8  7130.0  1129.4  7664.0  1130.1  8199.0  1126.6  8655.0  1125.5  8818.0
GR1127.9  9140.0  1099.1  9207.0  1097.8  9308.0  1093.4  9327.0  1093.5  9428.0
GR1098.0  9604.0  1094.9  9921.0  1091.0 10000.0  1091.0 10107.0  1096.2 10127.0
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GR1103.2 12548.0  1103.7 12714.0  1100.0 12761.0  1100.0 12839.0  1101.7 12862.0
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X1 15.32      36    9681   11762    2065    1815    1950
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NC   .04     .04     .03      .1      .3
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X3    10
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GR1106.9 11700.0  1103.8 11808.0  1110.9 11854.0  1107.5 11935.0  1110.1 12774.0
GR1110.3 13006.0  1112.8 13696.0  1114.1 14347.0  1117.2 15047.0  1122.8 15652.0
GR1124.4 15898.0
HD 15.51      10    9756   11854
X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
GR1139.6  8040.0  1139.5  8983.0  1139.6  9505.0  1135.9  9825.0  1106.8  9884.0
GR1108.1  9954.0  1108.6 10000.0  1106.3 10158.0  1103.9 10238.0  1106.2 10332.0
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HD 15.98      10    9825   10836
NC                     .3      .5
X1 16.42      28  9776.8 10225.4    2185    2225    2215
X3    10
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GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42      10  9776.8 10225.4
X116.446      64  9768.4 10241.0      95      95      95
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
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GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      64  9768.4 10241.0      20      20      20
X3    10
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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD 16.45      10 9768.4 10241.0
NC          .040           0.1     0.3
X1 16.91    22.0    9758   10178    2515    2200    2440
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GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10    9758   10178
NC  .045     .04
X1 17.38    30.0    9233   10670    2930    2140    2455
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
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HD 17.38      10    9233   10670
X1 17.76    33.0    8819   10431    2140    1900    1980
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
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GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10    8819   10431
X1 18.24    28.0    8972   10927    2335    2690    2525
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1140.1  9799.0  1141.4  9937.0  1135.7 10000.0  1135.7 10046.0
GR1139.2 10063.0  1138.6 10302.0  1136.3 10346.0  1138.7 10430.0  1139.9 10626.0
GR1139.1 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10    8972   10927
X1 18.92      52 9447.5 10577.0    3620    3800    3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1149.2  9565.7
GR1149.2  9565.8  1149.2  9573.3  1149.2  9573.4  1149.2  9691.8  1149.2  9691.9
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GR1149.2 10196.1  1149.2 10203.6  1149.2 10203.7  1149.2 10322.0  1149.2 10322.1
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GR1149.2 10455.1  1149.2 10563.5  1163.9 10576.9  1172.0 10577.0  1171.9 10590.0
GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10 9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    7491   10174    2805    2795    2800
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
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GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1162.5  9141.0
GR1164.5  9298.0  1163.9  9574.0  1160.9  9628.0  1163.0  9684.0  1163.3  9781.0
GR1158.4  9881.0  1159.4 10000.0  1159.4 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    7491   10174
X1 19.89    33.0    8142   10997    2375    2375    2375
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
X1 20.45    18.0  8070.0 10526.0    2955    2955    2955
GR1187.7  8070.0  1180.6  8256.0  1180.3  8565.0  1179.3  8786.0  1180.5  9022.0
GR1178.6  9074.0  1180.7  9230.0  1177.6  9418.0  1175.9  9534.0  1178.0  9686.0
GR1180.3  9704.0  1180.5  9855.0  1174.1 10000.0  1174.4 10191.0  1174.5 10235.0
GR1175.0 10432.0  1229.0 10526.0  1229.2 10586.0
HD 20.45      10    8142   10997
X1 20.92    22.0  7924.0 10707.0    1705    2630    2490
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1187.2  9261.0
GR1187.1  9502.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92      10    7924   10707
X1 21.01    26.0  8125.0 10446.0     180     450     430
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42    49.0  9359.0 10853.0    2190    2140    2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X1 21.76    37.0  9887.0 11304.0    1650    1830    1815
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1203.9  9660.0  1202.0  9887.0
GR1193.9  9915.0  1193.8 10000.0  1193.8 10088.0  1195.6 10103.0  1194.9 10320.0
GR1193.5 10376.0  1193.4 10555.0  1197.3 10579.0  1197.6 10764.0  1195.6 10937.0
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GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.2 11813.0
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GR1203.7 13853.0  1212.4 13935.0  1207.7 13964.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76      10    9887   11304
X1 22.32    29.0  9946.0 12625.0    2655    2480    2940
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
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GR1209.0 12625.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10    9946   12625
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0  9967.0 13219.0    2970    2570    2930
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1222.0  9623.0  1224.6  9642.0
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GR1221.4 10531.0  1223.2 10851.0  1224.6 11047.0  1222.6 11442.0  1220.5 11450.0
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HD 23.35      10    9967   13219
NC 0.039   0.035   0.030
X1 23.89    39.0  9324   11071    2875    2620    2860
GR1266.8  7830.0  1270.3  7975.0  1256.6  8004.0  1261.3  8023.0  1232.2  8081.0
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GR1231.3 10890.0  1228.3 10935.0  1228.4 11039.0  1231.9 11071.0  1231.9 11221.0
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GR1254.4 12406.0  1258.7 12485.0  1259.5 12817.0  1259.5 12913.0
HD 23.89      10    9324   11071
NC 0.040   0.034   0.030
X1 24.35    32.0  7939.0 10201.0    1990    2730    2445
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.8  9652.0
GR1236.5  9664.0  1239.4  9728.0  1238.3  9893.0  1235.2 10000.0  1237.5 10174.0
GR1242.5 10201.0  1242.8 10300.0  1238.2 10325.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10  7939.0 10201.0
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NC 0.038   0.031   0.030
X1 24.54    36.0  9240.0 10227.0     880    1140     980
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
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GR1244.5  8990.0  1244.5  9240.0  1242.9  9311.0  1241.6  9485.0  1242.9  9550.0
GR1242.1  9879.0  1240.3  9989.0  1238.3 10000.0  1238.3 10014.0  1242.7 10058.0
GR1244.6 10227.0  1240.8 10491.0  1242.8 10616.0  1240.2 10736.0  1243.1 10847.0
GR1240.6 11132.0  1239.2 11150.0  1238.8 11312.0  1241.5 11351.0  1239.8 11413.0
GR1243.1 11501.0  1241.6 11750.0  1239.2 11764.0  1239.1 11816.0  1276.1 11876.0
GR1278.6 12013.0
HD 24.54      10    9240   10227
NC 0.030   0.030   0.030
X1 24.90    43.0  9334.0 11529.0     2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
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HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
X1 25.37    41.0  9459.0 11916.0     2420    2365    2485
GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
GR1260.3  9509.0  1261.7  9524.0  1261.8  9638.0  1255.1  9673.0  1256.0  9890.0
GR1255.1  9896.0  1255.0 10000.0  1258.4 10016.0  1256.9 10326.0  1259.4 10451.0
GR1260.2 10717.0  1260.5 10976.0  1260.3 11222.0  1260.8 11504.0  1258.1 11553.0
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GR1282.4 11916.0  1285.6 12047.0  1279.8 12169.0  1289.6 12311.0  1289.6 12356.0
GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
GR1293.1 13301.0
HD 25.37      10    9459   11916
X1 25.59      14    9685   11070     1065    1230    1125
GR1300.0  9640.0  1280.0  9685.0  1264.0  9725.0  1260.0  9790.0  1260.0  9840.0
GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
GR1272.0 11070.0  1276.0 11100.0  1280.0 11120.0  1283.4 11270.0
HD 25.59      10    9685   11070
NC  .040   .040   .030
X1 25.86      25    8220   10215     1425    1495    1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
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GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
HD 25.86      10    8220   10215
NC  .041   .041   .033
X1 26.29    26.0    8722   11227     2090    2295    2240
GR1307.9  8275.0  1279.3  8338.0  1278.4  8722.0  1275.7  8754.0  1276.5  8962.0
GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
GR1271.6 10000.0  1273.7 10084.0  1278.8 10120.0  1278.2 10393.0  1278.4 10757.0
GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
GR1280.5 12462.0  1281.9 12794.0  1279.6 12804.0  1312.6 12882.0  1311.4 13079.0
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GR1312.6 13190.0
HD 26.29      10    8722   11227
X1 26.73      30.0   9720   11263    2320    2310    2330
GR1312.2  9355.0  1313.9  9457.0  1289.8  9540.0  1287.5  9720.0  1282.4  9755.0
GR1285.6  9834.0  1280.7  9898.0  1279.8 10000.0  1279.9 10364.0  1283.4 10385.0
GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10    9720   11263
NC  .048    .043    .035
X1 27.03      23.0   9679   10553    1660    1020    1590
GR1307.8  9627.0  1301.5  9679.0  1283.2  9723.0  1281.2  9814.0  1282.6  9900.0
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GR1300.5 12889.0  1319.6 12961.0  1330.8 13050.0
HD 27.03      10    9679   10553
NC  .040    .040    .035
X1 27.68      35.0   8224   10125    4120    3200    3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
GR1297.0  8243.0  1298.6  8317.0  1299.3  8587.0  1302.4  8679.0  1298.7  8774.0
GR1301.1  8870.0  1300.8  8938.0  1297.9  8961.0  1301.1  8999.0  1301.3  9184.0
GR1297.6  9230.0  1300.8  9293.0  1298.8  9379.0  1300.1  9459.0  1299.0  9624.0
GR1295.3  9640.0  1295.4  9695.0  1301.1  9738.0  1301.6  9853.0  1295.7 10000.0
GR1294.7 10078.0  1310.2 10125.0  1310.7 10428.0  1311.8 10663.0  1305.9 10703.0
GR1312.1 10728.0  1309.4 10746.0  1311.0 10884.0  1330.0 10991.0  1330.2 11145.0
HD 27.68      10    8224   10125
X1 28.12      27.0   9108   10107    2360    2375    2355
GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
GR1309.5  8719.0  1311.3  8878.0  1311.1  9108.0  1307.8  9129.0  1307.5  9182.0
GR1310.6  9258.0  1308.2  9300.0  1310.5  9411.0  1308.6  9524.0  1306.6  9675.0
GR1304.9  9906.0  1304.6 10000.0  1304.6 10076.0  1310.3 10107.0  1310.7 10411.0
GR1306.3 10527.0  1307.3 10680.0  1308.6 10781.0  1308.5 10866.0  1310.8 10916.0
GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67      36.0   9950   11203    2785    2925    2885
GR1372.7  9450.0  1371.0  9866.0  1311.5  9964.0  1312.2 10000.0  1312.2 10192.0
GR1319.8 10514.0  1316.1 10819.0  1318.6 10989.0  1315.2 11044.0  1320.5 11203.0
GR1321.6 11445.0  1322.3 11634.0  1319.8 11968.0  1318.7 12107.0  1322.5 12170.0
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GR1327.4 12972.0  1345.8 13057.0  1345.8 13259.0  1339.7 13321.0  1341.1 13419.0
GR1352.8 13484.0  1356.1 13572.0  1358.7 13589.0  1358.8 13606.0  1348.0 13629.0
GR1348.2 13655.0  1363.9 13681.0  1363.8 13698.0  1355.7 13713.0  1356.7 13851.0
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HD 28.67      10    9950   11203
NC  .042    .042    .035
X1 29.04      33.0   9808   10638    2100    1270    1975
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GR1343.9 13578.0  1351.5 13599.0  1352.4 13621.0  1344.3 13633.0  1344.4 13654.0
GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
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HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
GR1378.7  9025.0 1375.5  9068.0 1350.7  9135.0 1348.6  9179.0 1332.4  9217.0
GR1333.5  9321.0 1333.9  9460.0 1331.2  9697.0 1328.7  9726.0 1328.4  9758.0
GR1332.9  9782.0 1332.2  9846.0 1327.0  9882.0 1326.7 10000.0 1326.7 10116.0
GR1340.7 10150.0 1343.0 10343.0 1346.5 10482.0 1348.3 10927.0 1347.8 11457.0
GR1349.2 11687.0 1354.2 11697.0 1354.2 11723.0 1345.8 11737.0 1345.8 11763.0
GR1355.3 11783.0 1355.4 11812.0 1352.6 11829.0 1378.3 11981.0
HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
GR1377.8  8825.0 1353.2  9052.0 1337.2  9136.0 1336.3  9285.0 1332.4  9541.0
GR1332.9  9713.0 1334.0  9791.0 1328.9  9812.0 1328.9  9849.0 1331.6 10000.0
GR1331.6 10094.0 1342.3 10133.0 1351.2 10244.0 1345.5 10331.0 1349.1 10528.0
GR1349.1 10688.0 1349.9 10923.0 1353.4 10966.0 1353.4 11037.0 1345.1 11072.0
GR1345.1 11124.0 1352.5 11156.0 1352.5 11163.0 1345.4 11178.0 1345.5 11204.0
GR1353.7 11221.0 1353.4 11251.0 1351.1 11259.0 1353.1 11405.0 1358.4 11533.0
GR1378.5 11635.0
HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
GR1378.4  9270.0 1373.4  9347.0 1338.8  9419.0 1335.4  9475.0 1340.8  9512.0
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HD 29.80      10    9347   10610
X1 30.07    17.0    9604   10306    1425    1440    1420
GR1369.4  9325.0 1363.9  9463.0 1360.9  9604.0 1341.5  9665.0 1343.1  9728.0
GR1340.8  9781.0 1340.4  9910.0 1344.6  9925.0 1334.4  9986.0 1334.4 10000.0
GR1335.0 10060.0 1344.5 10098.0 1343.6 10114.0 1336.6 10132.0 1334.0 10261.0
GR1365.9 10306.0 1365.0 10356.0
HD 30.07      10    9604   10306
X1 30.26    12.0    9711   10643     870    1090    1005
GR1357.2  9625.0 1361.9  9711.0 1342.1  9749.0 1338.9 10000.0 1339.3 10135.0
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GR1363.6 10643.0 1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043   0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0 1379.5  9833.0 1375.4  9865.0 1345.2  9924.0 1346.7 10000.0
GR1352.0 10201.0 1347.0 10358.0 1353.5 10398.0 1358.1 10582.0 1357.9 10879.0
GR1354.5 11132.0 1399.1 11244.0
HD 30.82      10    9865   11244
NC 0.043   0.043   0.037
X1 31.39    17.0    9470   10633    2900    3165    2970
GR1397.8  9290.0 1386.7  9342.0 1392.7  9386.0 1393.4  9470.0 1356.5  9526.0
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GR1356.9 10000.0 1357.4 10080.0 1361.5 10242.0 1360.1 10387.0 1368.0 10456.0
GR1368.6 10528.0 1407.9 10633.0
HD 31.39      10    9470   10633
X1 31.86    10.0    9490   10321    2550    2485    2505
GR1411.1  8955.0 1408.4  9155.0 1407.3  9490.0 1362.0  9604.0 1364.9  9727.0
GR1366.7  9894.0 1366.7 10000.0 1365.3 10261.0 1394.3 10321.0 1420.6 10419.0
HD 31.86      10    9490   10321
NC 0.043   0.052   0.040
X1 32.43    14.0    9438   10437    2885    2970    2980
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GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
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GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10     9438   10437
NC  .049    .049     .042
X1 32.86     12.0     9719   10564     2405     2135     2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10     9719   10564
NC  .047    .055     .032
X132.984      33     9750   10150      648      648      648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10     9750   10150
X132.998     9.0     9762   10164       72       72       72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10     9762   10164
NC  .060    .050     .050
X1 33.41     12.0     9750   10687     1880     2270     2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
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HD 33.41      10     9750   10687
X1 33.82     20.0     9565   10600     2165     2220     2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
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GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10     9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                     RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                        PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                              UPDATED ON:  MAY 15, 1992
T8      ********************************************************************************
I1             10       0       0   0.999  32.174
I4              9       1      10    2.65       0       0       0       0       0
I5             .5      .5     .25      .5     .25       0     1.0
LQ      Q    0.01    4000.   20000.  40000.  60000.  85000.
LT     QS    0.01    3082.   26604.  56358.  97056. 155824.
LF    VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF     FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF     MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF     CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF    VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF    VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF     FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF     MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
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LF     CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF    VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160          0.20997 0.20997 0.88000          0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N  0.440          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  0.730          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  1.330          0.20997 0.04955 0.95000          0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N  1.710          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.020          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.600          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  2.800          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  3.270          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.400          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.430          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.729          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N  3.757          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  4.094          0.20997 0.12303 0.95000          0.00327 0.05913 0.08985 0.23156
N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
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N  4.790          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
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N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
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N  5.380          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.689          0.10499 0.04007 0.95000          0.09244 0.10394 0.16384 0.07407
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N         0.13374 0.10182 0.14009 0.12020 0.21110 0.09680
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N         0.21739 0.05091 0.06699 0.06316 0.06695 0.06960
N 10.530          0.20997 0.20997 0.85647          0.00421 0.02127 0.02914 0.08658
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N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
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N 11.800          0.10998 0.00902 0.95000          0.00841 0.06483 0.42620 0.23369
N         0.19681 0.02778 0.02211 0.00930 0.00120 0.00000
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N         0.11958 0.04334 0.05466 0.04851 0.03611 0.10827
N 13.330          0.20997 0.10583 0.95000          0.05550 0.05080 0.07292 0.04479
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N         0.07674 0.05549 0.08591 0.10635 0.17505 0.20952
N 16.420          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N 16.446          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N 16.450          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N 16.910          0.20997 0.06703 0.95000          0.00640 0.02513 0.06149 0.07330
N         0.12291 0.07295 0.46914 0.08411 0.04922 0.00781
```

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N 17.380          0.20997 0.06703 0.95000          0.00640 0.02513 0.06149 0.07330
N         0.12291 0.07295 0.46914 0.08411 0.04922 0.00781
N 17.760          0.20997 0.14885 0.95000          0.00437 0.02580 0.11721 0.12390
N         0.19929 0.08749 0.11800 0.06891 0.12493 0.12917
N 18.240          0.20997 0.10170 0.95000          0.00462 0.15220 0.22224 0.11813
N         0.12652 0.05265 0.07449 0.10737 0.09435 0.04624
N 18.920          0.10499 0.05946 0.95000          0.01821 0.08276 0.15116 0.12148
N         0.21800 0.06284 0.08761 0.14618 0.08897 0.00000
N 19.440          0.20997 0.19383 0.95000          0.00886 0.01300 0.39307 0.07674
N         0.06638 0.04247 0.06198 0.09086 0.10721 0.08295
N 19.890          0.20997 0.11515 0.95000          0.00647 0.04633 0.30735 0.17892
N         0.16653 0.04553 0.04777 0.06992 0.06989 0.06018
N 20.450          0.20997 0.08406 0.95000          0.01627 0.08943 0.29824 0.30511
N         0.09135 0.02313 0.02991 0.05439 0.06782 0.02326
N 20.920          0.20997 0.09533 0.95000          0.01051 0.04217 0.22588 0.24623
N         0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.010          0.20997 0.09533 0.95000          0.01051 0.04217 0.22588 0.24623
N         0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.420          0.20997 0.05955 0.95000          0.01704 0.08013 0.20148 0.35467
N         0.12095 0.07181 0.04617 0.04132 0.03584 0.02276
N 21.760          0.20997 0.04146 0.95000          0.01327 0.08040 0.20053 0.33463
N         0.13927 0.09282 0.05630 0.03361 0.02823 0.01194
N 22.320          0.20997 0.07723 0.95000          0.00642 0.05957 0.24449 0.17159
N         0.20383 0.07884 0.07927 0.07423 0.05525 0.02601
N 22.790          0.20997 0.08817 0.95000          0.00295 0.08040 0.22208 0.27401
N         0.17304 0.05433 0.05972 0.05074 0.04780 0.03442
N 23.350          0.20997 0.17333 0.95000          0.00669 0.05531 0.12720 0.18266
N         0.15313 0.06654 0.09027 0.09565 0.09806 0.09687
N 23.890          0.20997 0.16437 0.95000          0.00102 0.01100 0.18103 0.17308
N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 24.350          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.540          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.900          0.20997 0.11878 0.95000          0.00923 0.04467 0.21324 0.14742
N         0.17234 0.05644 0.06754 0.10076 0.11634 0.06850
N 25.370          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.590          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.860          0.20997 0.10795 0.95000          0.00538 0.03093 0.08500 0.21779
N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000          0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000          0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000          0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000          0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000          0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000          0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000          0.00510 0.00977 0.02614 0.06339
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N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N  29.540         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  29.611         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  29.800         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  30.070         0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N  30.260         0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N  30.820         0.20997 0.19285 0.95000         0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N  31.390         0.20997 0.07865 0.95000         0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N  31.860         0.20997 0.18391 0.95000         0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N  32.430         0.20997 0.16079 0.82061         0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N  32.860         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  32.984         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  32.998         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  33.410         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  33.820         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B            2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q  9250.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q  9250.   1250.
```

```
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 18500.   2500.
X            0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 18500.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 27750.   3750.
X            0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 27750.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 37000.   5000.
X            0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 37000.   5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 27750.   3750.
X            0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 27750.   3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 18500.   2500.
X            0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 18500.   2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q  9250.   1250.
X            0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q  9250.   1250.
W   0.05
$$END
```

# APPENDIX I.1.3 - MODEL I (200-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL I
T3
NC 0.070   0.040   0.044      .1      .3
X1 0.160    47.0    8000   12725     470     460     465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160      10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420    1510    1465    1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440      10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394    1565    1475    1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0  15560
HD 0.730      10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456    3405    3325    3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330      10    8038   10456
NC 0.041   0.040   0.035
X1 1.710      44    9091 10284.4    2000    2585    2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890     2065     1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6     2700     2945     3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222     1250      655     1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5     2800     1995     2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5      760      635      685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4      165      160      165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603     1575     1585     1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0        0        0
X1 3.734    63.0  9400.9 10599.3       25       25       25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
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NC 0.045    0.055    0.035      0.4      0.6
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X3     10
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NC                                0.1      0.3
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NC          .04              .1      .3
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HD 15.51      10    9756   11854
X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
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X3    10
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X116.446      64  9768.4 10241.0      95      95      95
X3    10
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GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      64  9768.4 10241.0      20      20      20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1132.0  9768.4  1110.0  9768.5  1110.0  9787.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10080.4  1110.0 10080.5  1110.0 10092.5  1118.0 10092.6  1118.0 10100.9
GR1118.0 10101.0  1118.0 10103.7  1118.0 10104.1  1118.0 10116.9  1118.0 10117.0
GR1118.0 10119.4  1118.0 10119.5  1118.0 10132.3  1118.0 10132.4  1118.0 10134.9
GR1118.0 10135.0  1118.0 10147.4  1118.0 10147.5  1118.0 10149.9  1118.0 10150.0
GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
GR1118.0 10178.0  1118.0 10180.7  1118.0 10180.8  1118.0 10193.9  1118.0 10194.0
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GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD 16.45      10  9768.4 10241.0
NC          .040           0.1     0.3
X1 16.91    22.0    9758   10178    2515    2200    2440
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1144.8  9758.0  1115.6  9804.0
GR1114.6 10000.0  1124.6 10178.0  1127.2 10550.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10    9758   10178
NC  .045     .04
X1 17.38    30.0    9233   10670    2930    2140    2455
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1123.5  9271.0  1123.8  9463.0
GR1127.5  9845.0  1122.5  9863.0  1121.7 10000.0  1124.9 10068.0  1124.9 10289.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10    9233   10670
X1 17.76    33.0    8819   10431    2140    1900    1980
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1128.0  9307.0
GR1132.0  9337.0  1128.0  9539.0  1128.0  9703.0  1128.0  9724.0  1128.0  9779.0
GR1128.8  9833.0  1128.0 10000.0  1128.0 10109.0  1131.2 10214.0  1131.5 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10    8819   10431
X1 18.24    28.0    8972   10927    2335    2690    2525
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1140.1  9799.0  1141.4  9937.0  1135.7 10000.0  1135.7 10046.0
GR1139.2 10063.0  1138.6 10302.0  1136.3 10346.0  1138.7 10430.0  1139.9 10626.0
GR1139.1 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10    8972   10927
X1 18.92      52  9447.5 10577.0    3620    3800    3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1149.2  9565.7
GR1149.2  9565.8  1149.2  9573.3  1149.2  9573.4  1149.2  9691.8  1149.2  9691.9
GR1149.2  9699.4  1149.2  9699.5  1149.2  9817.8  1149.2  9817.9  1149.2  9825.4
GR1149.2  9825.5  1149.2  9943.9  1149.2  9944.0  1149.2  9951.5  1149.2  9951.6
GR1149.2 10070.2  1149.2 10070.3  1149.2 10077.8  1149.2 10077.9  1149.2 10196.0
GR1149.2 10196.1  1149.2 10203.6  1149.2 10203.7  1149.2 10322.0  1149.2 10322.1
GR1149.2 10329.6  1149.2 10329.7  1149.2 10447.4  1149.2 10447.5  1149.2 10455.0
GR1149.2 10455.1  1149.2 10563.5  1163.9 10576.9  1172.0 10577.0  1171.9 10590.0
GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    7491   10174    2805    2795    2800
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
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GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1162.5  9141.0
GR1164.5  9298.0  1163.9  9574.0  1160.9  9628.0  1163.0  9684.0  1163.3  9781.0
GR1158.4  9881.0  1159.4 10000.0  1159.4 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10     7491   10174
X1 19.89    33.0     8142   10997     2375     2375     2375
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10     8142   10997
X1 20.45    18.0  8070.0 10526.0     2955     2955     2955
GR1187.7  8070.0  1180.6  8256.0  1180.3  8565.0  1179.3  8786.0  1180.5  9022.0
GR1178.6  9074.0  1180.7  9230.0  1177.6  9418.0  1175.9  9534.0  1178.0  9686.0
GR1180.3  9704.0  1180.5  9855.0  1174.1 10000.0  1174.4 10191.0  1174.5 10235.0
GR1175.0 10432.0  1229.0 10526.0  1229.2 10586.0
HD 20.45      10     8142   10997
X1 20.92    22.0  7924.0 10707.0     1705     2630     2490
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1187.2  9261.0
GR1187.1  9502.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92      10     7924   10707
X1 21.01    26.0  8125.0 10446.0      180      450      430
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10     8125   10446
X1 21.42    49.0  9359.0 10853.0     2190     2140     2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X1 21.76    37.0  9887.0 11304.0      1650     1830     1815
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1203.9  9660.0  1202.0  9887.0
GR1193.9  9915.0  1193.8 10000.0  1193.8 10088.0  1195.6 10103.0  1194.9 10320.0
GR1193.5 10376.0  1193.4 10555.0  1197.3 10579.0  1197.6 10764.0  1195.6 10937.0
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GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.2 11813.0
GR1197.9 11871.0  1200.4 11970.0  1200.0 12435.0  1200.3 13151.0  1202.1 13796.0
GR1203.7 13853.0  1212.4 13935.0  1207.7 13964.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76      10     9887   11304
X1 22.32    29.0 9946.0 12625.0    2655     2480     2940
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1204.2 11586.0  1205.5 11657.0  1205.5 11944.0  1203.8 12003.0
GR1205.2 12205.0  1202.3 12225.0  1204.5 12288.0  1202.7 12304.0  1203.0 12596.0
GR1209.0 12625.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10     9946   12625
NC 0.040   0.031    0.030
X1 22.79    27.0 9941.0 13467.0    2510     2335     2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10     9941   13467
NC 0.040   0.034    0.030
X1 23.35    43.0 9967.0 13219.0    2970     2570     2930
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1222.0  9623.0  1224.6  9642.0
GR1224.2  9967.0  1217.6 10000.0  1218.1 10049.0  1221.3 10198.0  1218.3 10445.0
GR1221.4 10531.0  1223.2 10851.0  1224.6 11047.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10     9967   13219
NC 0.039   0.035    0.030
X1 23.89    39.0    9324   11071    2875     2620     2860
GR1266.8  7830.0  1270.3  7975.0  1256.6  8004.0  1261.3  8023.0  1232.2  8081.0
GR1230.5  8170.0  1232.4  8230.0  1230.6  8450.0  1230.6  8803.0  1232.9  8953.0
GR1232.9  9324.0  1229.8  9359.0  1229.0  9453.0  1230.7  9526.0  1232.2  9649.0
GR1228.1  9829.0  1227.6 10000.0  1227.7 10139.0  1231.6 10382.0  1231.7 10672.0
GR1231.3 10890.0  1228.3 10935.0  1228.4 11039.0  1231.9 11071.0  1231.9 11221.0
GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
GR1235.4 12009.0  1252.5 12101.0  1250.1 12152.0  1251.7 12229.0  1249.1 12295.0
GR1254.4 12406.0  1258.7 12485.0  1259.5 12817.0  1259.5 12913.0
HD 23.89      10     9324   11071
NC 0.040   0.034    0.030
X1 24.35    32.0 7939.0 10201.0    1990     2730     2445
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.8  9652.0
GR1236.5  9664.0  1239.4  9728.0  1238.3  9893.0  1235.2 10000.0  1237.5 10174.0
GR1242.5 10201.0  1242.8 10300.0  1238.2 10325.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10  7939.0 10201.0
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NC 0.038   0.031   0.030
X1 24.54    36.0  9240.0 10227.0     880    1140     980
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
GR1245.6  7636.0  1243.2  7946.0  1243.5  8106.0  1243.4  8353.0  1243.6  8697.0
GR1244.5  8990.0  1244.5  9240.0  1242.9  9311.0  1241.6  9485.0  1242.9  9550.0
GR1242.1  9879.0  1240.3  9989.0  1238.3 10000.0  1238.3 10014.0  1242.7 10058.0
GR1244.6 10227.0  1240.8 10491.0  1242.8 10616.0  1240.2 10736.0  1243.1 10847.0
GR1240.6 11132.0  1239.2 11150.0  1238.8 11312.0  1241.5 11351.0  1239.8 11413.0
GR1243.1 11501.0  1241.6 11750.0  1239.2 11764.0  1239.1 11816.0  1276.1 11876.0
GR1278.6 12013.0
HD 24.54      10    9240   10227
NC 0.030   0.030   0.030
X1 24.90    43.0  9334.0 11529.0     2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
GR1250.9  8530.0  1252.2  8594.0  1251.2  8738.0  1252.8  8845.0  1252.5  9147.0
GR1251.6  9334.0  1248.0  9359.0  1248.2  9467.0  1250.8  9482.0  1252.3  9813.0
GR1248.6  9839.0  1249.7  9933.0  1246.8  9959.0  1246.6 10000.0  1246.6 10037.0
GR1251.0 10053.0  1251.1 10206.0  1247.0 10559.0  1251.4 10684.0  1249.5 10806.0
GR1246.5 10832.0  1246.5 10895.0  1249.8 10918.0  1248.1 11176.0  1249.9 11194.0
GR1250.2 11328.0  1249.2 11417.0  1252.5 11529.0  1251.5 11894.0  1247.3 11933.0
GR1250.3 12174.0  1247.5 12200.0  1248.9 12432.0  1249.5 12596.0  1249.5 12718.0
GR1253.6 12781.0  1250.2 13053.0  1267.8 13098.0
HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
X1 25.37    41.0  9459.0 11916.0     2420    2365    2485
GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
GR1260.3  9509.0  1261.7  9524.0  1261.8  9638.0  1255.1  9673.0  1256.0  9890.0
GR1255.1  9896.0  1255.0 10000.0  1258.4 10016.0  1256.9 10326.0  1259.4 10451.0
GR1260.2 10717.0  1260.5 10976.0  1260.3 11222.0  1260.8 11504.0  1258.1 11553.0
GR1259.9 11613.0  1259.9 11663.0  1257.2 11706.0  1260.9 11754.0  1259.0 11833.0
GR1282.4 11916.0  1285.6 12047.0  1279.8 12169.0  1289.6 12311.0  1289.6 12356.0
GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
GR1293.1 13301.0
HD 25.37      10    9459   11916
X1 25.59      14    9685   11070     1065    1230    1125
GR1300.0  9640.0  1280.0  9685.0  1264.0  9725.0  1260.0  9790.0  1260.0  9840.0
GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
GR1272.0 11070.0  1276.0 11100.0  1280.0 11120.0  1283.4 11270.0
HD 25.59      10    9685   11070
NC  .040   .040   .030
X1 25.86      25    8220   10215     1425    1495    1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
HD 25.86      10    8220   10215
NC  .041   .041   .033
X1 26.29    26.0    8722   11227     2090    2295    2240
GR1307.9  8275.0  1279.3  8338.0  1278.4  8722.0  1275.7  8754.0  1276.5  8962.0
GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
GR1271.6 10000.0  1273.7 10084.0  1278.8 10120.0  1278.2 10393.0  1278.4 10757.0
GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
GR1280.5 12462.0  1281.9 12794.0  1279.6 12804.0  1312.6 12882.0  1311.4 13079.0
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GR1312.6 13190.0
HD 26.29      10    8722   11227
X1 26.73      30.0   9720   11263    2320    2310    2330
GR1312.2  9355.0  1313.9  9457.0  1289.8  9540.0  1287.5  9720.0  1282.4  9755.0
GR1285.6  9834.0  1280.7  9898.0  1279.8 10000.0  1279.9 10364.0  1283.4 10385.0
GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10    9720   11263
NC  .048    .043    .035
X1 27.03      23.0   9679   10553    1660    1020    1590
GR1307.8  9627.0  1301.5  9679.0  1283.2  9723.0  1281.2  9814.0  1282.6  9900.0
GR1287.2  9922.0  1283.5  9949.0  1283.4 10000.0  1283.4 10054.0  1286.2 10079.0
GR1288.9 10450.0  1290.7 10553.0  1288.0 10732.0  1291.0 10749.0  1291.0 11081.0
GR1291.4 12573.0  1293.7 12649.0  1291.4 12657.0  1301.2 12783.0  1303.3 12821.0
GR1300.5 12889.0  1319.6 12961.0  1330.8 13050.0
HD 27.03      10    9679   10553
NC  .040    .040    .035
X1 27.68      35.0   8224   10125    4120    3200    3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
GR1297.0  8243.0  1298.6  8317.0  1299.3  8587.0  1302.4  8679.0  1298.7  8774.0
GR1301.1  8870.0  1300.8  8938.0  1297.9  8961.0  1301.1  8999.0  1301.3  9184.0
GR1297.6  9230.0  1300.8  9293.0  1298.8  9379.0  1300.1  9459.0  1299.0  9624.0
GR1295.3  9640.0  1295.4  9695.0  1301.1  9738.0  1301.6  9853.0  1295.7 10000.0
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GR1312.1 10728.0  1309.4 10746.0  1311.0 10884.0  1330.0 10991.0  1330.2 11145.0
HD 27.68      10    8224   10125
X1 28.12      27.0   9108   10107    2360    2375    2355
GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
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GR1304.9  9906.0  1304.6 10000.0  1304.6 10076.0  1310.3 10107.0  1310.7 10411.0
GR1306.3 10527.0  1307.3 10680.0  1308.6 10781.0  1308.5 10866.0  1310.8 10916.0
GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67      36.0   9950   11203    2785    2925    2885
GR1372.7  9450.0  1371.0  9866.0  1311.5  9964.0  1312.2 10000.0  1312.2 10192.0
GR1319.8 10514.0  1316.1 10819.0  1318.6 10989.0  1315.2 11044.0  1320.5 11203.0
GR1321.6 11445.0  1322.3 11634.0  1319.8 11968.0  1318.7 12107.0  1322.5 12170.0
GR1321.3 12228.0  1325.2 12397.0  1326.4 12792.0  1328.9 12823.0  1324.8 12860.0
GR1327.4 12972.0  1345.8 13057.0  1345.8 13259.0  1339.7 13321.0  1341.1 13419.0
GR1352.8 13484.0  1356.1 13572.0  1358.7 13589.0  1358.8 13606.0  1348.0 13629.0
GR1348.2 13655.0  1363.9 13681.0  1363.8 13698.0  1355.7 13713.0  1356.7 13851.0
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HD 28.67      10    9950   11203
NC  .042    .042    .035
X1 29.04      33.0   9808   10638    2100    1270    1975
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GR1317.2 10000.0  1317.2 10048.0  1322.9 10073.0  1324.3 10239.0  1324.4 10414.0
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GR1343.9 13578.0  1351.5 13599.0  1352.4 13621.0  1344.3 13633.0  1344.4 13654.0
GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
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HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
GR1378.7  9025.0 1375.5  9068.0 1350.7  9135.0 1348.6  9179.0 1332.4  9217.0
GR1333.5  9321.0 1333.9  9460.0 1331.2  9697.0 1328.7  9726.0 1328.4  9758.0
GR1332.9  9782.0 1332.2  9846.0 1327.0  9882.0 1326.7 10000.0 1326.7 10116.0
GR1340.7 10150.0 1343.0 10343.0 1346.5 10482.0 1348.3 10927.0 1347.8 11457.0
GR1349.2 11687.0 1354.2 11697.0 1354.2 11723.0 1345.8 11737.0 1345.8 11763.0
GR1355.3 11783.0 1355.4 11812.0 1352.6 11829.0 1378.3 11981.0
HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
GR1377.8  8825.0 1353.2  9052.0 1337.2  9136.0 1336.3  9285.0 1332.4  9541.0
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HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
GR1378.4  9270.0 1373.4  9347.0 1338.8  9419.0 1335.4  9475.0 1340.8  9512.0
GR1342.7  9656.0 1338.9  9882.0 1331.2  9924.0 1331.4 10000.0 1332.7 10180.0
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GR1349.2 10676.0
HD 29.80      10    9347   10610
X1 30.07    17.0    9604   10306    1425    1440    1420
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GR1340.8  9781.0 1340.4  9910.0 1344.6  9925.0 1334.4  9986.0 1334.4 10000.0
GR1335.0 10060.0 1344.5 10098.0 1343.6 10114.0 1336.6 10132.0 1334.0 10261.0
GR1365.9 10306.0 1365.0 10356.0
HD 30.07      10    9604   10306
X1 30.26    12.0    9711   10643     870    1090    1005
GR1357.2  9625.0 1361.9  9711.0 1342.1  9749.0 1338.9 10000.0 1339.3 10135.0
GR1341.7 10314.0 1347.9 10338.0 1348.7 10444.0 1341.6 10545.0 1341.7 10604.0
GR1363.6 10643.0 1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043   0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0 1379.5  9833.0 1375.4  9865.0 1345.2  9924.0 1346.7 10000.0
GR1352.0 10201.0 1347.0 10358.0 1353.5 10398.0 1358.1 10582.0 1357.9 10879.0
GR1354.5 11132.0 1399.1 11244.0
HD 30.82      10    9865   11244
NC 0.043   0.043   0.037
X1 31.39    17.0    9470   10633    2900    3165    2970
GR1397.8  9290.0 1386.7  9342.0 1392.7  9386.0 1393.4  9470.0 1356.5  9526.0
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HD 31.39      10    9470   10633
X1 31.86    10.0    9490   10321    2550    2485    2505
GR1411.1  8955.0 1408.4  9155.0 1407.3  9490.0 1362.0  9604.0 1364.9  9727.0
GR1366.7  9894.0 1366.7 10000.0 1365.3 10261.0 1394.3 10321.0 1420.6 10419.0
HD 31.86      10    9490   10321
NC 0.043   0.052   0.040
X1 32.43    14.0    9438   10437    2885    2970    2980
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GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
GR1372.6  9692.0  1375.5  9852.0  1373.4  9965.0  1370.7 10000.0  1372.7 10073.0
GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10     9438    10437
NC  .049    .049    .042
X1 32.86    12.0     9719    10564     2405     2135     2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10     9719    10564
NC  .047    .055    .032
X132.984      33     9750    10150      648      648      648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10     9750    10150
X132.998     9.0     9762    10164       72       72       72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10     9762    10164
NC  .060    .050    .050
X1 33.41    12.0     9750    10687     1880     2270     2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
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HD 33.41      10     9750    10687
X1 33.82    20.0     9565    10600     2165     2220     2175
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GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10     9565    10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                      RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                         PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                               UPDATED ON:  MAY 15, 1992
T8      ************************************************************************
I1             10       0       0   0.999  32.174
I4              9       1      10    2.65       0       0       0       0       0
I5             .5      .5     .25      .5     .25       0     1.0
LQ      Q    0.01    4000.   20000.  40000.  60000.  85000.
LT     QS    0.01    3082.   26604.  56358.  97056. 155824.
LF    VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF     FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF     MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF     CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF    VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF    VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF     FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF     MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
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LF     CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF    VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160          0.20997 0.20997 0.88000          0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N  0.440          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  0.730          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  1.330          0.20997 0.04955 0.95000          0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N  1.710          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.020          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.600          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  2.800          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  3.270          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.400          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.430          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.729          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.734          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.757          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.767          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  4.094          0.20997 0.12303 0.95000          0.00327 0.05913 0.08985 0.23156
N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N  4.270          0.20997 0.13909 0.95000          0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
N  4.700          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  4.754          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  4.790          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  5.150          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.290          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.380          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.689          0.10499 0.04007 0.95000          0.09244 0.10394 0.16384 0.07407
N         0.12482 0.03636 0.03411 0.05742 0.02210 0.00000
N  5.750          0.20997 0.11371 0.95000          0.02514 0.02121 0.03410 0.05761
N         0.13374 0.10182 0.14009 0.12020 0.21110 0.09680
N  5.900          0.10499 0.04675 0.95000          0.00167 0.07000 0.11471 0.29051
N         0.23478 0.07273 0.09569 0.07263 0.03895 0.00000
N  6.430          0.20997 0.08439 0.95000          0.02065 0.09227 0.24746 0.14997
```

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N         0.18326 0.08153 0.05486 0.06285 0.05857 0.03609
N   6.890           0.20997 0.20997 0.84606           0.05655 0.02661 0.04201 0.09060
N         0.05774 0.05564 0.06069 0.06744 0.08595 0.09895
N   6.990           0.20997 0.20997 0.84606           0.05655 0.02661 0.04201 0.09060
N         0.05774 0.05564 0.06069 0.06744 0.08595 0.09895
N   7.490           0.20997 0.18355 0.95000           0.00479 0.02873 0.10448 0.12958
N         0.20723 0.07724 0.10130 0.11629 0.10762 0.08706
N   8.000           0.20997 0.20029 0.93000           0.00728 0.02929 0.11102 0.30828
N         0.11991 0.06713 0.05201 0.03858 0.09855 0.08010
N   8.100           0.20997 0.20029 0.93000           0.00728 0.02929 0.11102 0.30828
N         0.11991 0.06713 0.05201 0.03858 0.09855 0.08010
N   8.210           0.20669 0.20029 0.92000           0.02947 0.04843 0.11816 0.09260
N         0.13594 0.03971 0.06124 0.08775 0.09780 0.15346
N   9.130           0.20997 0.13321 0.95000           0.00869 0.04600 0.12779 0.27413
N         0.16235 0.06298 0.06926 0.07354 0.08927 0.06065
N   9.900           0.20997 0.20997 0.87760           0.01003 0.04333 0.06706 0.20555
N         0.21739 0.05091 0.06699 0.06316 0.06695 0.06960
N  10.530           0.20997 0.20997 0.85647           0.00421 0.02127 0.02914 0.08658
N         0.09678 0.06727 0.09878 0.11776 0.14108 0.18527
N  10.720           0.20997 0.17890 0.95000           0.01403 0.05790 0.06375 0.08512
N         0.15652 0.12291 0.12520 0.11966 0.12088 0.09563
N  11.010           0.20997 0.14758 0.95000           0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N  11.340           0.20997 0.14758 0.95000           0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N  11.520           0.20997 0.14758 0.95000           0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N  11.800           0.10998 0.00902 0.95000           0.00841 0.06483 0.42620 0.23369
N         0.19681 0.02778 0.02211 0.00930 0.00120 0.00000
N  12.380           0.20997 0.16713 0.95000           0.10927 0.13597 0.22075 0.10297
N         0.11958 0.04334 0.05466 0.04851 0.03611 0.10827
N  13.330           0.20997 0.10583 0.95000           0.05550 0.05080 0.07292 0.04479
N         0.09799 0.06870 0.10593 0.15285 0.13318 0.05245
N  13.810           0.20997 0.10583 0.95000           0.05550 0.05080 0.07292 0.04479
N         0.09799 0.06870 0.10593 0.15285 0.13318 0.05245
N  14.380           0.20997 0.09819 0.95000           0.00447 0.05807 0.15095 0.21462
N         0.19272 0.08524 0.09355 0.07203 0.08427 0.04232
N  14.850           0.20997 0.11106 0.95000           0.00567 0.02743 0.10279 0.14192
N         0.25589 0.10218 0.09875 0.10644 0.10064 0.05619
N  14.940           0.20997 0.11106 0.95000           0.00567 0.02743 0.10279 0.14192
N         0.25589 0.10218 0.09875 0.10644 0.10064 0.05619
N  15.320           0.20997 0.13913 0.95000           0.00897 0.05446 0.12768 0.12385
N         0.13632 0.08684 0.12677 0.10791 0.11463 0.10576
N  15.510           0.20997 0.13913 0.95000           0.00897 0.05446 0.12768 0.12385
N         0.13632 0.08684 0.12677 0.10791 0.11463 0.10576
N  15.980           0.20997 0.19271 0.95000           0.00665 0.01037 0.17808 0.06168
N         0.07674 0.05549 0.08591 0.10635 0.17505 0.20952
N  16.420           0.20997 0.06234 0.95000           0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N  16.446           0.20997 0.06234 0.95000           0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N  16.450           0.20997 0.06234 0.95000           0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N  16.910           0.20997 0.06703 0.95000           0.00640 0.02513 0.06149 0.07330
N         0.12291 0.07295 0.46914 0.08411 0.04922 0.00781
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N 17.380          0.20997 0.06703 0.95000          0.00640 0.02513 0.06149 0.07330
N         0.12291 0.07295 0.46914 0.08411 0.04922 0.00781
N 17.760          0.20997 0.14885 0.95000          0.00437 0.02580 0.11721 0.12390
N         0.19929 0.08749 0.11800 0.06891 0.12493 0.12917
N 18.240          0.20997 0.10170 0.95000          0.00462 0.15220 0.22224 0.11813
N         0.12652 0.05265 0.07449 0.10737 0.09435 0.04624
N 18.920          0.10499 0.05946 0.95000          0.01821 0.08276 0.15116 0.12148
N         0.21800 0.06284 0.08761 0.14618 0.08897 0.00000
N 19.440          0.20997 0.19383 0.95000          0.00886 0.01300 0.39307 0.07674
N         0.06638 0.04247 0.06198 0.09086 0.10721 0.08295
N 19.890          0.20997 0.11515 0.95000          0.00647 0.04633 0.30735 0.17892
N         0.16653 0.04553 0.04777 0.06992 0.06989 0.06018
N 20.450          0.20997 0.08406 0.95000          0.01627 0.08943 0.29824 0.30511
N         0.09135 0.02313 0.02991 0.05439 0.06782 0.02326
N 20.920          0.20997 0.09533 0.95000          0.01051 0.04217 0.22588 0.24623
N         0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.010          0.20997 0.09533 0.95000          0.01051 0.04217 0.22588 0.24623
N         0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.420          0.20997 0.05955 0.95000          0.01704 0.08013 0.20148 0.35467
N         0.12095 0.07181 0.04617 0.04132 0.03584 0.02276
N 21.760          0.20997 0.04146 0.95000          0.01327 0.08040 0.20053 0.33463
N         0.13927 0.09282 0.05630 0.03361 0.02823 0.01194
N 22.320          0.20997 0.07723 0.95000          0.00642 0.05957 0.24449 0.17159
N         0.20383 0.07884 0.07927 0.07423 0.05525 0.02601
N 22.790          0.20997 0.08817 0.95000          0.00295 0.08040 0.22208 0.27401
N         0.17304 0.05433 0.05972 0.05074 0.04780 0.03442
N 23.350          0.20997 0.17333 0.95000          0.00669 0.05531 0.12720 0.18266
N         0.15313 0.06654 0.09027 0.09565 0.09806 0.09687
N 23.890          0.20997 0.16437 0.95000          0.00102 0.01100 0.18103 0.17308
N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 24.350          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.540          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.900          0.20997 0.11878 0.95000          0.00923 0.04467 0.21324 0.14742
N         0.17234 0.05644 0.06754 0.10076 0.11634 0.06850
N 25.370          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.590          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.860          0.20997 0.10795 0.95000          0.00538 0.03093 0.08500 0.21779
N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000          0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000          0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000          0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000          0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000          0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000          0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000          0.00510 0.00977 0.02614 0.06339
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N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N  29.540         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  29.611         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  29.800         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  30.070         0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N  30.260         0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N  30.820         0.20997 0.19285 0.95000         0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N  31.390         0.20997 0.07865 0.95000         0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N  31.860         0.20997 0.18391 0.95000         0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N  32.430         0.20997 0.16079 0.82061         0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N  32.860         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  32.984         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  32.998         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  33.410         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N  33.820         0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q 14750.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q 14750.   1250.
```

```
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 29500.   2500.
X            0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 29500.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 44250.   3750.
X            0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 44250.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 59000.   5000.
X            0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 59000.   5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 44250.   3750.
X            0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 44250.   3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 29500.   2500.
X            0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 29500.   2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q 14750.   1250.
X            0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q 14750.   1250.
W   0.05
$$END
```

# APPENDIX I.1.4 - MODEL I (500-YEAR)

```
T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL I
T3
NC 0.070    0.040    0.044       .1       .3
X1 0.160     47.0     8000    12725      470      460      465
GR 924.4   4925.0   924.2   5199.0   921.8   5600.0   919.5   5760.0   919.4   5959.0
GR 920.9   6245.0   920.8   6516.0   919.3   6554.0   919.8   6850.0   919.6   7271.0
GR 920.5   7535.0   917.6   8136.0   917.4   8339.0   912.3   8356.0   917.2   8376.0
GR 916.4   8991.0   914.0   9212.0   911.6   9231.0   913.2   9494.0   911.8   9720.0
GR 910.7  10000.0   909.6  10136.0   921.6  10167.0   923.0  10184.0   913.7  10213.0
GR 913.7  10477.0   917.1  10590.0   916.6  10873.0   910.5  10909.0   910.5  11042.0
GR 915.2  11068.0   912.1  11265.0   911.5  11516.0   908.3  11664.0   910.4  11830.0
GR 916.1  11911.0   914.1  12098.0   914.9  12628.0   922.1  12652.0   922.7  12725.0
GR 916.5  12758.0   916.8  13671.0   916.2  14363.0   917.2  14971.0   917.8  15391.0
GR 913.5  15403.0   920.3  15459.0
HD 0.160       10     8000    12725
NC 0.033    0.040    0.039
X1 0.440     40.0     8029    10420     1510     1465     1485
GR 927.5   3107.0   925.0   4575.0   922.8   5984.0   921.8   6974.0   920.3   7816.0
GR 923.1   7847.0   923.3   7915.0   919.1   7942.0   919.1   7995.0   923.7   8029.0
GR 919.5   8152.0   916.2   8640.0   915.1   8999.0   916.8   9023.0   916.7   9798.0
GR 913.9   9815.0   913.5   9842.0   912.8  10000.0   917.6  10016.0   916.2  10201.0
GR 917.0  10263.0   917.7  10313.0   917.7  10385.0   925.2  10420.0   917.7  10455.0
GR 917.8  11076.0   920.3  11103.0   916.9  11133.0   916.4  11365.0   919.1  11391.0
GR 918.7  12229.0   918.8  12650.0   920.6  12691.0   919.8  12785.0   919.6  13644.0
GR 920.4  14355.0   921.0  16110.0   921.8  16630.0   922.9  17240.0   924.0  17640.0
HD 0.440       10     8029    10420
NC 0.034    0.040    0.042
X1 0.730     36.0     8340    12394     1565     1475     1510
GR 926.5   3285.0   926.3   3986.0   925.6   4737.0   925.2   5415.0   925.6   5760.0
GR 925.6   5797.0   925.7   5889.0   925.7   5945.0   924.5   6306.0   924.5   7206.0
GR 924.3   8340.0   921.6   8530.0   921.1   8982.0   919.1   8999.0   918.6   9126.0
GR 921.0   9195.0   920.0   9917.0   917.8   9927.0   917.9  10000.0   916.9  10087.0
GR 928.8  10162.0   919.2  10205.0   917.0  10479.0   919.8  10521.0   918.9  10591.0
GR 928.7  10655.0   919.2  10697.0   919.2  10771.0   922.2  10794.0   921.6  11725.0
GR 922.6  11783.0   924.5  12394.0   924.5  13563.0   924.0  14000.0   924.3  15050.0
GR 926.0   15560
HD 0.730       10     8340    12394
NC 0.040    0.042    0.043
X1 1.330     29.0     8038    10456     3405     3325     3385
GR 934.6   6000.0   933.3   6025.0   932.9   6490.0   931.0   6748.0   931.3   7154.0
GR 931.8   7239.0   933.2   7837.0   934.0   8038.0   931.1   8083.0   929.8   8339.0
GR 931.4   8777.0   929.3   8916.0   931.1   8945.0   929.8   9282.0   929.1   9911.0
GR 927.0  10000.0   925.9  10122.0   925.5  10364.0   932.0  10456.0   925.5  10490.0
GR 931.1  10701.0   931.6  11006.0   930.4  11242.0   934.9  11261.0   931.9  11306.0
GR 933.2  11377.0   934.8  11409.0   936.3  12061.0   941.3  12490.0
HD 1.330       10     8038    10456
NC 0.041    0.040    0.035
X1 1.710       44     9091  10284.4     2000     2585     2480
GR 940.9   5684.9   943.3   5808.0   945.3   6004.6   945.1   6078.9   947.4   6100.1
GR 947.4   6117.9   939.1   6148.7   948.7   6187.8   948.6   6226.4   934.0   6296.9
GR 936.8   6795.4   942.6   6807.8   942.6   6816.3   935.2   6833.2   933.6   7016.1
GR 935.7   7029.0   935.7   7052.6   932.4   7065.5   932.0   7135.0   934.3   7164.7
GR 934.3   7198.3   931.9   7209.5   934.6   7333.9   933.3   7541.5   933.4   7601.4
GR 936.1   7704.9   936.0   8010.3   935.3   8305.9   935.8   8591.1   935.4   8888.0
```

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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890    2065    1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6    2700    2945    3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222    1250     655    1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5    2800    1995    2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5     760     635     685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
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GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4     165     160     165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603    1575    1585    1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
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HD 3.729       0       0       0
X1 3.734    63.0  9400.9 10599.3      25      25      25
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GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
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GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
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GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
X1 4.270    15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
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GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270      10    9449   10588
X1 4.700     9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
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X1 4.754    53.0  9402.5 10572.4     150     310     225
X3    10
GR 973.0  7150.0   972.7  8115.0   973.6  8831.0   984.3  9296.0   988.1  9402.5
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HD 4.754      10  9445.8 10555.9
X1 4.790     6.0    9440   10590     357     187     277
GR 980.2  9440.0   964.0  9466.0   961.1 10000.0   964.6 10568.0   980.8 10590.0
GR 980.8 10600.0
HD 4.790      10  9440.0   10590
X1 5.150     9.0    9291   10713    1780    1960    1873
GR 986.0  9275.0   986.0  9291.0   969.9  9310.0   968.1  9678.0   967.4 10000.0
GR 968.7 10469.0   968.9 10691.0   986.0 10713.0   986.0 10720.0
HD 5.150      10    9291   10713
NC  .040    .040    .022
X1 5.290      82  9250.8 10672.4     695     865     775
GR 994.5  9250.7   986.4  9250.8   971.5  9277.5   971.5  9318.7   971.5  9318.8
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GR 971.5  9394.6   971.5  9460.9   971.5  9461.0   971.5  9465.6   971.5  9465.7
GR 971.5  9532.1   971.5  9532.2   971.5  9536.8   971.5  9536.9   971.5  9603.3
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GR 971.5 10106.0   971.5 10172.3   971.5 10172.4   971.5 10177.0   971.5 10177.1
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GR 971.5 10390.7   971.5 10390.8   971.5 10457.2   971.5 10457.3   971.5 10461.9
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NC   .04     .04    .025
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NC   .04     .04    .022      .3      .5
X1 5.689      42  9371.3 10552.8    1320    1740    1620
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GR 973.9  9496.2   973.9  9496.3   973.9  9606.6   973.9  9606.7   973.9  9614.1
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GR 973.9  9843.3   973.9  9843.4   973.9  9850.8   973.9  9850.9   973.9  9961.3
GR 973.9  9961.4   973.9  9968.8   973.9  9968.9   973.9 10078.9   973.9 10079.0
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GR 973.7 10244.0    975.6 10259.0    975.6 10349.0    975.7 10474.0    975.7 10565.0
GR 989.2 10579.0    989.6 10596.0
HD 5.750      10     9426   10579
X1 5.900    17.0   9429.0 10561.0      945      950      950
GR 993.0  9414.0    993.0  9429.0    977.5  9447.0    977.5  9506.0    977.5  9598.0
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GR 977.6 10544.0    991.1 10561.0
HD 5.900      10     9429   10561
X1 6.430    20.0   9452.0 10537.0     2960     2755     2855
GR 996.1  9390.0    991.8  9409.0    991.6  9433.0    996.5  9443.0    996.5  9452.0
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GR 983.2 10232.0    983.2 10359.0    982.5 10519.0    996.1 10537.0    996.1 10550.0
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X1 6.890    16.0   9439.0 10577.0     2510     2185     2345
GR1004.2  9428.0   1004.2  9439.0    989.9  9461.0    989.9  9574.0    989.9  9700.0
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HD 6.890      10     9439   10577
X1 6.990    19.0   9400.0 10559.0      525      575      550
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GR 990.2 10418.0    990.2 10540.0   1003.5 10559.0   1004.0 10574.0
HD 6.990      10     9400   10559
X1 7.490    13.0   9509.0 10525.0     2645     2610     2595
GR1009.5  9493.0   1009.5  9509.0    995.2  9526.0    995.4  9612.0    995.6  9736.0
GR 995.5  9871.0    995.3 10000.0    995.3 10064.0    995.4 10173.0    995.7 10289.0
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HD 7.490      10     9509   10525
NC 0.022   0.022    0.022      .3       .5
X1 8.000      85   9235.5 10725.0     2865     2540     2685
X3    10
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X1 8.100    33.0  9350.0 10883.0     195    1255     535
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HD 14.94      10    9140   10772
X1 15.32      36    9681   11762    2065    1815    1950
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X3     10
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X3     10
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GR1108.7  9865.1  1108.7  9950.9  1108.7  9951.0  1108.7  9957.0  1108.7  9957.1
GR1108.7 10046.0  1108.7 10046.1  1108.7 10051.9  1108.7 10052.0  1108.7 10052.1
GR1108.7 10138.1  1108.7 10138.2  1108.7 10144.2  1108.7 10144.3  1108.7 10203.8
GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42       10  9776.8 10225.4
X116.446       64  9768.4 10241.0       95       95       95
X3     10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446       10  9768.4 10241.0
X1 16.45       64  9768.4 10241.0       20       20       20
X3     10
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HD 16.91      10     9758   10178
NC  .045     .04
X1 17.38    30.0     9233   10670    2930    2140    2455
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HD 18.24      10     8972   10927
X1 18.92      52  9447.5 10577.0    3620    3800    3595
X3    10
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GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
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HD 20.45      10     8142   10997
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NC 0.040   0.031    0.030
X1 22.79      27.0  9941.0 13467.0    2510     2335     2510
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HD 22.79      10     9941   13467
NC 0.040   0.034    0.030
X1 23.35      43.0  9967.0 13219.0    2970     2570     2930
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HD 23.35      10     9967   13219
NC 0.039   0.035    0.030
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GR1228.1  9829.0  1227.6 10000.0  1227.7 10139.0  1231.6 10382.0  1231.7 10672.0
GR1231.3 10890.0  1228.3 10935.0  1228.4 11039.0  1231.9 11071.0  1231.9 11221.0
GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
GR1235.4 12009.0  1252.5 12101.0  1250.1 12152.0  1251.7 12229.0  1249.1 12295.0
GR1254.4 12406.0  1258.7 12485.0  1259.5 12817.0  1259.5 12913.0
HD 23.89      10     9324   11071
NC 0.040   0.034    0.030
X1 24.35      32.0  7939.0 10201.0    1990     2730     2445
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
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GR1236.5  9664.0  1239.4  9728.0  1238.3  9893.0  1235.2 10000.0  1237.5 10174.0
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HD 24.35      10  7939.0 10201.0
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NC 0.038   0.031   0.030
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NC 0.030   0.030   0.030
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HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
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GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
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GR1293.1 13301.0
HD 25.37      10    9459   11916
X1 25.59      14    9685   11070     1065    1230    1125
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GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
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HD 25.59      10    9685   11070
NC  .040   .040   .030
X1 25.86      25    8220   10215     1425    1495    1455
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GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
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HD 25.86      10    8220   10215
NC  .041   .041   .033
X1 26.29    26.0    8722   11227     2090    2295    2240
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GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
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GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
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X1 26.73      30.0   9720   11263    2320    2310    2330
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HD 26.73      10    9720   11263
NC  .048    .043    .035
X1 27.03      23.0   9679   10553    1660    1020    1590
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HD 27.03      10    9679   10553
NC  .040    .040    .035
X1 27.68      35.0   8224   10125    4120    3200    3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
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HD 27.68      10    8224   10125
X1 28.12      27.0   9108   10107    2360    2375    2355
GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
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GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67      36.0   9950   11203    2785    2925    2885
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NC  .042    .042    .035
X1 29.04      33.0   9808   10638    2100    1270    1975
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X1 29.54     29.0    9198   10150    2750    2235    2640
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GR1340.7  10150.0  1343.0 10343.0  1346.5 10482.0  1348.3 10927.0  1347.8 11457.0
GR1349.2  11687.0  1354.2 11697.0  1354.2 11723.0  1345.8 11737.0  1345.8 11763.0
GR1355.3  11783.0  1355.4 11812.0  1352.6 11829.0  1378.3 11981.0
HD 29.54       10    9198   10150
X129.611     31.0    9052   10244     315     315     375
X3     10
GR1377.8   8825.0  1353.2  9052.0  1337.2  9136.0  1336.3  9285.0  1332.4  9541.0
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GR1349.1  10688.0  1349.9 10923.0  1353.4 10966.0  1353.4 11037.0  1345.1 11072.0
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GR1378.5  11635.0
HD29.611       10    9052   10244
X1 29.80     16.0    9347   10610    1295    1340    1400
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GR1349.2  10676.0
HD 29.80       10    9347   10610
X1 30.07     17.0    9604   10306    1425    1440    1420
GR1369.4   9325.0  1363.9  9463.0  1360.9  9604.0  1341.5  9665.0  1343.1  9728.0
GR1340.8   9781.0  1340.4  9910.0  1344.6  9925.0  1334.4  9986.0  1334.4 10000.0
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HD 30.07       10    9604   10306
X1 30.26     12.0    9711   10643     870    1090    1005
GR1357.2   9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
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HD 30.26       10    9711   10643
NC 0.043  0.043    0.045
X1 30.82     12.0    9865   11244    2955    2840    2960
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GR1352.0  10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
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HD 30.82       10    9865   11244
NC 0.043  0.043    0.037
X1 31.39     17.0    9470   10633    2900    3165    2970
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GR1368.6  10528.0  1407.9 10633.0
HD 31.39       10    9470   10633
X1 31.86     10.0    9490   10321    2550    2485    2505
GR1411.1   8955.0  1408.4  9155.0  1407.3  9490.0  1362.0  9604.0  1364.9  9727.0
GR1366.7   9894.0  1366.7 10000.0  1365.3 10261.0  1394.3 10321.0  1420.6 10419.0
HD 31.86       10    9490   10321
NC 0.043  0.052    0.040
X1 32.43     14.0    9438   10437    2885    2970    2980
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HD 32.43      10     9438    10437
NC  .049    .049     .042
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GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10     9719    10564
NC  .047    .055     .032
X132.984      33     9750    10150      648      648      648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
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GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10     9750    10150
X132.998     9.0     9762    10164       72       72       72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
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NC  .060    .050     .050
X1 33.41      12     9750    10687     1880     2270     2170
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X1 33.82      20     9565    10600     2165     2220     2175
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GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10     9565    10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                       RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                          PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                                UPDATED ON:  MAY 15, 1992
T8      ********************************************************************************
I1             10       0       0   0.999  32.174
I4              9       1      10    2.65       0       0       0       0       0
I5             .5      .5     .25      .5     .25       0     1.0
LQ      Q    0.01   4000.  20000.  40000.  60000.  85000.
LT     QS    0.01   3082.  26604.  56358.  97056. 155824.
LF    VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF     FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF     MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF     CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF    VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF    VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF     FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF     MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
```

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LF     CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF    VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160          0.20997 0.20997 0.88000          0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N  0.440          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  0.730          0.20997 0.04092 0.95000          0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  1.330          0.20997 0.04955 0.95000          0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N  1.710          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.020          0.20997 0.18396 0.95000          0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.600          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  2.800          0.20997 0.01908 0.95000          0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  3.270          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.400          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.430          0.20997 0.10348 0.95000          0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.729          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.734          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.757          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.767          0.62991 0.41994 0.95000          0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  4.094          0.20997 0.12303 0.95000          0.00327 0.05913 0.08985 0.23156
N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N  4.270          0.20997 0.13909 0.95000          0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
N  4.700          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  4.754          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  4.790          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N  5.150          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.290          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.380          0.20997 0.05963 0.95000          0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
N  5.689          0.10499 0.04007 0.95000          0.09244 0.10394 0.16384 0.07407
N         0.12482 0.03636 0.03411 0.05742 0.02210 0.00000
N  5.750          0.20997 0.11371 0.95000          0.02514 0.02121 0.03410 0.05761
N         0.13374 0.10182 0.14009 0.12020 0.21110 0.09680
N  5.900          0.10499 0.04675 0.95000          0.00167 0.07000 0.11471 0.29051
N         0.23478 0.07273 0.09569 0.07263 0.03895 0.00000
N  6.430          0.20997 0.08439 0.95000          0.02065 0.09227 0.24746 0.14997
```

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N         0.18326 0.08153 0.05486 0.06285 0.05857 0.03609
N  6.890          0.20997 0.20997 0.84606          0.05655 0.02661 0.04201 0.09060
N         0.05774 0.05564 0.06069 0.06744 0.08595 0.09895
N  6.990          0.20997 0.20997 0.84606          0.05655 0.02661 0.04201 0.09060
N         0.05774 0.05564 0.06069 0.06744 0.08595 0.09895
N  7.490          0.20997 0.18355 0.95000          0.00479 0.02873 0.10448 0.12958
N         0.20723 0.07724 0.10130 0.11629 0.10762 0.08706
N  8.000          0.20997 0.20029 0.93000          0.00728 0.02929 0.11102 0.30828
N         0.11991 0.06713 0.05201 0.03858 0.09855 0.08010
N  8.100          0.20997 0.20029 0.93000          0.00728 0.02929 0.11102 0.30828
N         0.11991 0.06713 0.05201 0.03858 0.09855 0.08010
N  8.210          0.20669 0.20029 0.92000          0.02947 0.04843 0.11816 0.09260
N         0.13594 0.03971 0.06124 0.08775 0.09780 0.15346
N  9.130          0.20997 0.13321 0.95000          0.00869 0.04600 0.12779 0.27413
N         0.16235 0.06298 0.06926 0.07354 0.08927 0.06065
N  9.900          0.20997 0.20997 0.87760          0.01003 0.04333 0.06706 0.20555
N         0.21739 0.05091 0.06699 0.06316 0.06695 0.06960
N 10.530          0.20997 0.20997 0.85647          0.00421 0.02127 0.02914 0.08658
N         0.09678 0.06727 0.09878 0.11776 0.14108 0.18527
N 10.720          0.20997 0.17890 0.95000          0.01403 0.05790 0.06375 0.08512
N         0.15652 0.12291 0.12520 0.11966 0.12088 0.09563
N 11.010          0.20997 0.14758 0.95000          0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N 11.340          0.20997 0.14758 0.95000          0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N 11.520          0.20997 0.14758 0.95000          0.02582 0.06943 0.13373 0.12004
N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N 11.800          0.10998 0.00902 0.95000          0.00841 0.06483 0.42620 0.23369
N         0.19681 0.02778 0.02211 0.00930 0.00120 0.00000
N 12.380          0.20997 0.16713 0.95000          0.10927 0.13597 0.22075 0.10297
N         0.11958 0.04334 0.05466 0.04851 0.03611 0.10827
N 13.330          0.20997 0.10583 0.95000          0.05550 0.05080 0.07292 0.04479
N         0.09799 0.06870 0.10593 0.15285 0.13318 0.05245
N 13.810          0.20997 0.10583 0.95000          0.05550 0.05080 0.07292 0.04479
N         0.09799 0.06870 0.10593 0.15285 0.13318 0.05245
N 14.380          0.20997 0.09819 0.95000          0.00447 0.05807 0.15095 0.21462
N         0.19272 0.08524 0.09355 0.07203 0.08427 0.04232
N 14.850          0.20997 0.11106 0.95000          0.00567 0.02743 0.10279 0.14192
N         0.25589 0.10218 0.09875 0.10644 0.10064 0.05619
N 14.940          0.20997 0.11106 0.95000          0.00567 0.02743 0.10279 0.14192
N         0.25589 0.10218 0.09875 0.10644 0.10064 0.05619
N 15.320          0.20997 0.13913 0.95000          0.00897 0.05446 0.12768 0.12385
N         0.13632 0.08684 0.12677 0.10791 0.11463 0.10576
N 15.510          0.20997 0.13913 0.95000          0.00897 0.05446 0.12768 0.12385
N         0.13632 0.08684 0.12677 0.10791 0.11463 0.10576
N 15.980          0.20997 0.19271 0.95000          0.00665 0.01037 0.17808 0.06168
N         0.07674 0.05549 0.08591 0.10635 0.17505 0.20952
N 16.420          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N 16.446          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N 16.450          0.20997 0.06234 0.95000          0.09238 0.17593 0.16829 0.09484
N         0.11106 0.04836 0.09656 0.04790 0.02748 0.03420
N 16.910          0.20997 0.06703 0.95000          0.00640 0.02513 0.06149 0.07330
N         0.12291 0.07295 0.46914 0.08411 0.04922 0.00781
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N 17.380         0.20997 0.06703 0.95000         0.00640 0.02513 0.06149 0.07330
N        0.12291 0.07295 0.46914 0.08411 0.04922 0.00781
N 17.760         0.20997 0.14885 0.95000         0.00437 0.02580 0.11721 0.12390
N        0.19929 0.08749 0.11800 0.06891 0.12493 0.12917
N 18.240         0.20997 0.10170 0.95000         0.00462 0.15220 0.22224 0.11813
N        0.12652 0.05265 0.07449 0.10737 0.09435 0.04624
N 18.920         0.10499 0.05946 0.95000         0.01821 0.08276 0.15116 0.12148
N        0.21800 0.06284 0.08761 0.14618 0.08897 0.00000
N 19.440         0.20997 0.19383 0.95000         0.00886 0.01300 0.39307 0.07674
N        0.06638 0.04247 0.06198 0.09086 0.10721 0.08295
N 19.890         0.20997 0.11515 0.95000         0.00647 0.04633 0.30735 0.17892
N        0.16653 0.04553 0.04777 0.06992 0.06989 0.06018
N 20.450         0.20997 0.08406 0.95000         0.01627 0.08943 0.29824 0.30511
N        0.09135 0.02313 0.02991 0.05439 0.06782 0.02326
N 20.920         0.20997 0.09533 0.95000         0.01051 0.04217 0.22588 0.24623
N        0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.010         0.20997 0.09533 0.95000         0.01051 0.04217 0.22588 0.24623
N        0.22979 0.03876 0.04121 0.05860 0.05910 0.04282
N 21.420         0.20997 0.05955 0.95000         0.01704 0.08013 0.20148 0.35467
N        0.12095 0.07181 0.04617 0.04132 0.03584 0.02276
N 21.760         0.20997 0.04146 0.95000         0.01327 0.08040 0.20053 0.33463
N        0.13927 0.09282 0.05630 0.03361 0.02823 0.01194
N 22.320         0.20997 0.07723 0.95000         0.00642 0.05957 0.24449 0.17159
N        0.20383 0.07884 0.07927 0.07423 0.05525 0.02601
N 22.790         0.20997 0.08817 0.95000         0.00295 0.08040 0.22208 0.27401
N        0.17304 0.05433 0.05972 0.05074 0.04780 0.03442
N 23.350         0.20997 0.17333 0.95000         0.00669 0.05531 0.12720 0.18266
N        0.15313 0.06654 0.09027 0.09565 0.09806 0.09687
N 23.890         0.20997 0.16437 0.95000         0.00102 0.01100 0.18103 0.17308
N        0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 24.350         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N        0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.540         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N        0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.900         0.20997 0.11878 0.95000         0.00923 0.04467 0.21324 0.14742
N        0.17234 0.05644 0.06754 0.10076 0.11634 0.06850
N 25.370         0.20997 0.12678 0.95000         0.00149 0.00980 0.08434 0.12091
N        0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.590         0.20997 0.12678 0.95000         0.00149 0.00980 0.08434 0.12091
N        0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.860         0.20997 0.10795 0.95000         0.00538 0.03093 0.08500 0.21779
N        0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290         0.20997 0.18668 0.95000         0.00224 0.04115 0.11411 0.20318
N        0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730         0.20997 0.15103 0.95000         0.00054 0.00193 0.08266 0.13204
N        0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030         0.20997 0.19690 0.95000         0.00316 0.01357 0.06346 0.12297
N        0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680         0.20997 0.14198 0.95000         0.00292 0.02270 0.13383 0.11664
N        0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120         0.20997 0.20569 0.90000         0.00648 0.01875 0.05408 0.06661
N        0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670         0.20997 0.05813 0.95000         0.02020 0.07270 0.16705 0.19299
N        0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040         0.20997 0.17791 0.95000         0.00510 0.00977 0.02614 0.06339
```

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N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.260          0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000         0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000         0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000         0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061         0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B            2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q 22500.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q 22500.   1250.
```

```
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 45000.   2500.
X            0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 45000.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 67500.   3750.
X            0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 67500.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 90000.   5000.
X            0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 90000.   5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 67500.   3750.
X            0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 67500.   3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 45000.   2500.
X            0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 45000.   2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q 22500.   1250.
X            0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q 22500.   1250.
W   0.05
$$END
```

# APPENDIX I.2 - MODEL II

# APPENDIX I.2.1 - MODEL II (50-YEAR)

```
T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070    0.040    0.044       .1       .3
X1 0.160     47.0     8000    12725      470      460      465
GR 924.4   4925.0    924.2   5199.0    921.8   5600.0    919.5   5760.0    919.4   5959.0
GR 920.9   6245.0    920.8   6516.0    919.3   6554.0    919.8   6850.0    919.6   7271.0
GR 920.5   7535.0    917.6   8136.0    917.4   8339.0    912.3   8356.0    917.2   8376.0
GR 916.4   8991.0    914.0   9212.0    911.6   9231.0    913.2   9494.0    911.8   9720.0
GR 910.7  10000.0    909.6  10136.0    921.6  10167.0    923.0  10184.0    913.7  10213.0
GR 913.7  10477.0    917.1  10590.0    916.6  10873.0    910.5  10909.0    910.5  11042.0
GR 915.2  11068.0    912.1  11265.0    911.5  11516.0    908.3  11664.0    910.4  11830.0
GR 916.1  11911.0    914.1  12098.0    914.9  12628.0    922.1  12652.0    922.7  12725.0
GR 916.5  12758.0    916.8  13671.0    916.2  14363.0    917.2  14971.0    917.8  15391.0
GR 913.5  15403.0    920.3  15459.0
HD 0.160       10     8000    12725
NC 0.033    0.040    0.039
X1 0.440     40.0     8029    10420     1510     1465     1485
GR 927.5   3107.0    925.0   4575.0    922.8   5984.0    921.8   6974.0    920.3   7816.0
GR 923.1   7847.0    923.3   7915.0    919.1   7942.0    919.1   7995.0    923.7   8029.0
GR 919.5   8152.0    916.2   8640.0    915.1   8999.0    916.8   9023.0    916.7   9798.0
GR 913.9   9815.0    913.5   9842.0    912.8  10000.0    917.6  10016.0    916.2  10201.0
GR 917.0  10263.0    917.7  10313.0    917.7  10385.0    925.2  10420.0    917.7  10455.0
GR 917.8  11076.0    920.3  11103.0    916.9  11133.0    916.4  11365.0    919.1  11391.0
GR 918.7  12229.0    918.8  12650.0    920.6  12691.0    919.8  12785.0    919.6  13644.0
GR 920.4  14355.0    921.0  16110.0    921.8  16630.0    922.9  17240.0    924.0  17640.0
HD 0.440       10     8029    10420
NC 0.034    0.040    0.042
X1 0.730     36.0     8340    12394     1565     1475     1510
GR 926.5   3285.0    926.3   3986.0    925.6   4737.0    925.2   5415.0    925.6   5760.0
GR 925.6   5797.0    925.7   5889.0    925.7   5945.0    924.5   6306.0    924.5   7206.0
GR 924.3   8340.0    921.6   8530.0    921.1   8982.0    919.1   8999.0    918.6   9126.0
GR 921.0   9195.0    920.0   9917.0    917.8   9927.0    917.9  10000.0    916.9  10087.0
GR 928.8  10162.0    919.2  10205.0    917.0  10479.0    919.8  10521.0    918.9  10591.0
GR 928.7  10655.0    919.2  10697.0    919.2  10771.0    922.2  10794.0    921.6  11725.0
GR 922.6  11783.0    924.5  12394.0    924.5  13563.0    924.0  14000.0    924.3  15050.0
GR 926.0    15560
HD 0.730       10     8340    12394
NC 0.040    0.042    0.043
X1 1.330     29.0     8038    10456     3405     3325     3385
GR 934.6   6000.0    933.3   6025.0    932.9   6490.0    931.0   6748.0    931.3   7154.0
GR 931.8   7239.0    933.2   7837.0    934.0   8038.0    931.1   8083.0    929.8   8339.0
GR 931.4   8777.0    929.3   8916.0    931.1   8945.0    929.8   9282.0    929.1   9911.0
GR 927.0  10000.0    925.9  10122.0    925.5  10364.0    932.0  10456.0    925.5  10490.0
GR 931.1  10701.0    931.6  11006.0    930.4  11242.0    934.9  11261.0    931.9  11306.0
GR 933.2  11377.0    934.8  11409.0    936.3  12061.0    941.3  12490.0
HD 1.330       10     8038    10456
NC 0.041    0.040    0.035
X1 1.710       44     9091  10284.4     2000     2585     2480
GR 940.9   5684.9    943.3   5808.0    945.3   6004.6    945.1   6078.9    947.4   6100.1
GR 947.4   6117.9    939.1   6148.7    948.7   6187.8    948.6   6226.4    934.0   6296.9
GR 936.8   6795.4    942.6   6807.8    942.6   6816.3    935.2   6833.2    933.6   7016.1
GR 935.7   7029.0    935.7   7052.6    932.4   7065.5    932.0   7135.0    934.3   7164.7
GR 934.3   7198.3    931.9   7209.5    934.6   7333.9    933.3   7541.5    933.4   7601.4
GR 936.1   7704.9    936.0   8010.3    935.3   8305.9    935.8   8591.1    935.4   8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710       10    9091 10284.4
NC 0.041    0.035   0.035
X1 2.020       31 8839.4 10077.3     890     2065     1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020       10 8839.4 10077.3
NC 0.045    0.031   0.036
X1 2.600       26    9437 10580.6     2700     2945     3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600       10    9437 10580.6
X1 2.800       19    8817   11222     1250      655     1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800       10    8817   11222
X1 3.270       17 9692.6 11130.5     2800     1995     2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270       10 9692.6 11130.5
X1 3.400       23 9760.9 10928.5      760      635      685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400       10 9760.9 10928.5
X1 3.430       12 9654.5 10873.4      165      160      165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430       10 9654.5 10928.5
X1 3.729      6.0    9420   10603     1575     1585     1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729        0        0        0
X1 3.734     63.0 9400.9 10599.3       25       25       25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
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GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
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GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767       0       0       0
NC   .04    .045    .025
X1 4.094     7.0    9440   10578    1770    1760    1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
X1 4.270    15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270      10    9449   10588
X1 4.700     9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
GR 961.1 10353.0   962.8 10562.0   978.8 10579.0   978.9 10595.0
HD 4.700      10    9451   10588
X1 4.754    53.0  9402.5 10572.4     150     310     225
X3    10
GR 973.0  7150.0   972.7  8115.0   973.6  8831.0   984.3  9296.0   988.1  9402.5
GR 988.1  9427.7   980.6  9427.8   960.3  9445.8   960.3  9525.5   960.3  9525.6
GR 960.3  9537.6   960.3  9537.7   960.3  9641.5   960.3  9641.6   960.3  9653.6
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GR 960.3  9873.4   960.3  9873.5   960.3  9885.5   960.3  9885.6   960.3  9997.8
GR 960.3  9997.9   960.3 10009.9   960.3 10010.0   960.3 10105.8   960.3 10105.9
GR 960.3 10117.9   960.3 10118.0   960.3 10221.3   960.3 10221.4   960.3 10233.4
GR 960.3 10233.5   960.3 10337.9   960.3 10338.0   960.3 10349.0   960.3 10349.1
GR 960.3 10453.5   960.3 10453.6   960.3 10465.6   960.3 10465.7   960.3 10555.9
GR 981.2 10572.3   988.7 10572.4   988.7 10597.0   987.2 10612.0   978.1 11023.0
GR 978.7 11497.0   980.6 12014.0   982.4 12466.0
HD 4.754      10 9445.8 10555.9
X1 4.790     6.0    9440   10590     357     187     277
GR 980.2  9440.0   964.0  9466.0   961.1 10000.0   964.6 10568.0   980.8 10590.0
GR 980.8 10600.0
HD 4.790      10 9440.0   10590
X1 5.150     9.0    9291   10713    1780    1960    1873
GR 986.0  9275.0   986.0  9291.0   969.9  9310.0   968.1  9678.0   967.4 10000.0
GR 968.7 10469.0   968.9 10691.0   986.0 10713.0   986.0 10720.0
HD 5.150      10    9291   10713
NC  .040    .040    .022
X1 5.290      82 9250.8 10672.4     695     865     775
GR 994.5  9250.7   986.4  9250.8   971.5  9277.5   971.5  9318.7   971.5  9318.8
GR 971.5  9323.4   971.5  9323.5   971.5  9389.9   971.5  9390.0   971.5  9394.5
GR 971.5  9394.6   971.5  9460.9   971.5  9461.0   971.5  9465.6   971.5  9465.7
GR 971.5  9532.1   971.5  9532.2   971.5  9536.8   971.5  9536.9   971.5  9603.3
GR 971.5  9603.4   971.5  9608.0   971.5  9608.1   971.5  9674.5   971.5  9674.6
GR 971.5  9679.2   971.5  9679.3   971.5  9745.7   971.5  9745.8   971.5  9750.4
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GR 971.5 10034.7   971.5 10034.8   971.5 10101.2   971.5 10101.3   971.5 10105.9
GR 971.5 10106.0   971.5 10172.3   971.5 10172.4   971.5 10177.0   971.5 10177.1
GR 971.5 10243.7   971.5 10243.8   971.5 10248.4   971.5 10248.5   971.5 10314.9
GR 971.5 10315.0   971.5 10319.6   971.5 10319.7   971.5 10386.0   971.5 10386.1
GR 971.5 10390.7   971.5 10390.8   971.5 10457.2   971.5 10457.3   971.5 10461.9
GR 971.5 10462.0   971.5 10528.4   971.5 10528.5   971.5 10533.0   971.5 10533.1
GR 971.5 10599.5   971.5 10599.6   971.5 10604.2   971.5 10604.3   971.5 10645.5
GR 989.4 10672.3   997.7 10672.4
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NC   .04     .04    .025
X1 5.380     20.0    9266   10656     305     645     465
GR 993.0  9214.0   987.7  9266.0   985.7  9342.0   972.8  9358.0   972.3  9413.0
GR 972.2  9565.0   972.2  9734.0   972.2  9889.0   972.2  9994.0   971.4 10000.0
GR 971.4 10062.0   971.4 10195.0   974.3 10208.0   974.2 10263.0   974.2 10420.0
GR 974.2 10582.0   974.2 10639.0   988.4 10656.0   988.6 10671.0   982.3 10702.0
HD 5.380      10    9266   10656
NC   .04     .04    .022      .3      .5
X1 5.689      42 9371.3 10552.8    1320    1740    1620
GR 996.9  9371.2   990.8  9371.3   973.9  9399.5   973.9  9488.7   973.9  9488.8
GR 973.9  9496.2   973.9  9496.3   973.9  9606.6   973.9  9606.7   973.9  9614.1
GR 973.9  9614.2   973.9  9725.8   973.9  9725.9   973.9  9733.3   973.9  9733.4
GR 973.9  9843.3   973.9  9843.4   973.9  9850.8   973.9  9850.9   973.9  9961.3
GR 973.9  9961.4   973.9  9968.8   973.9  9968.9   973.9 10078.9   973.9 10079.0
GR 973.9 10086.4   973.9 10086.5   973.9 10196.2   973.9 10196.3   973.9 10203.7
GR 973.9 10203.8   973.9 10314.4   973.9 10314.5   973.9 10321.9   973.9 10322.0
GR 973.9 10432.1   973.9 10432.2   973.9 10439.6   973.9 10439.7   973.9 10524.6
GR 990.8 10552.8   996.9 10552.9
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NC   .04     .04    .025
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GR 990.7  9287.0   990.7  9295.0   985.9  9330.0   983.9  9362.0   985.6  9388.0
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GR1095.7  6809.0  1091.5  6880.0  1089.0  7130.0  1090.0  7510.0  1090.5  7760.0
GR1088.5  8360.0  1090.0  8660.0  1092.8  9228.2  1093.0  9251.0  1086.4  9251.1
GR1071.5  9268.5  1071.5  9370.4  1071.5  9370.5  1071.5  9379.5  1071.5  9379.6
GR1071.5  9498.4  1071.5  9498.5  1071.5  9507.5  1071.5  9507.6  1071.5  9623.4
GR1071.5  9623.5  1071.5  9632.5  1071.5  9632.6  1071.5  9748.4  1071.5  9748.5
GR1071.5  9757.5  1071.5  9757.6  1071.5  9873.4  1071.5  9873.5  1071.5  9882.5
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GR1071.5 10117.4  1071.5 10117.5  1071.5 10126.5  1071.5 10126.6  1071.5 10245.9
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GR1071.5 10513.6  1071.5 10630.0  1071.5 10630.1  1071.5 10639.1  1071.5 10639.2
GR1071.5 10741.1  1086.4 10758.5  1093.0 10758.6  1092.8 10784.0  1090.0 10910.0
GR1090.1 11080.0  1088.0 11380.0  1090.4 11740.0  1096.7 12172.0  1097.3 12475.0
GR1099.6 12607.0  1100.0 13232.0
HD 13.33     10  9251.1 10758.5
NC  0.04   0.04    0.03
X1 13.81   30.0    7867   10525    2560    2560    2560
X3    10
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GR1084.8  7867.0  1080.5  8265.0  1080.5  8365.0  1080.5  8485.0  1080.5  9315.0
GR1080.5  9435.0  1080.5  9535.0  1081.5  9580.0  1078.6  9597.0  1078.6 10000.0
GR1078.4 10183.0  1082.8 10226.0  1080.2 10454.0  1085.1 10525.0  1087.0 10634.0
GR1099.6 10738.0  1095.4 10896.0  1096.7 11458.0  1099.1 11517.0  1099.1 11575.0
HD 13.81   10.0    8265   10454
X113.855   30.0    7867   10525     240     240     240
X3    10
GR1099.5  6280.0  1088.6  6333.0  1084.4  6543.0  1086.1  6895.0  1086.1  7105.0
GR1082.8  7145.0  1085.6  7198.0  1081.0  7254.0  1085.9  7285.0  1084.1  7601.0
GR1085.3  7867.0  1081.0  8265.0  1081.0  8365.0  1041.0  8485.0  1041.0  9315.0
GR1081.0  9435.0  1081.0  9535.0  1082.0  9580.0  1079.1  9597.0  1079.1 10000.0
GR1078.9 10183.0  1083.3 10226.0  1080.7 10454.0  1085.6 10525.0  1087.5 10634.0
GR1100.1 10738.0  1095.9 10896.0  1097.2 11458.0  1099.6 11517.0  1099.6 11575.0
HD13.855   10.0    8265   10454
X1 14.38   36.0    8125   10691    2170    3125    2725
X3    10
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
GR1091.0  6950.0  1092.0  7095.0  1093.3  7380.0  1092.0  7990.0  1092.0  8125.0
GR1085.4  8140.0  1085.4  8240.0  1045.4  8360.0  1045.4  9190.0  1085.4  9310.0
GR1085.4  9320.0  1085.4  9350.0  1085.4  9400.0  1085.4  9410.0  1089.1  9458.0
GR1088.0  9838.0  1084.4 10000.0  1084.4 10065.0  1092.0 10085.0  1092.6 10234.0
GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38   10.0    8140   10571
X114.412   36.0    8125   10691     240     240     240
X3    10
GR1114.5  6715.0  1112.5  6750.0  1104.5  6765.0  1100.5  6790.0  1092.5  6830.0
GR1091.5  6950.0  1092.5  7095.0  1093.8  7380.0  1092.5  7990.0  1092.5  8125.0
GR1085.9  8140.0  1085.9  8240.0  1085.9  8360.0  1085.9  9190.0  1085.9  9310.0
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GR1088.5  9838.0  1084.9 10000.0  1084.9 10065.0  1092.5 10085.0  1093.1 10234.0
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GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
HD14.412   10.0    8140   10571
X1 14.85   37.0    9106   10454    2050    2150    2190
GR1126.8  7870.0  1130.3  8231.0  1131.5  8555.0  1129.3  8905.0  1109.1  8978.0
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HD 14.85    10.0    9106   10454
X114.932    44.0    9140   11341     425     425     425
X3    10
GR1128.7  7130.0  1129.3  7664.0  1130.0  8199.0  1126.5  8655.0  1125.4  8818.0
GR1127.8  9140.0  1099.0  9207.0  1097.7  9308.0  1093.3  9327.0  1093.4  9428.0
GR1097.9  9604.0  1094.8  9921.0  1090.1 10000.0  1090.9 10107.0  1096.1 10127.0
GR1095.5 10430.0  1095.0 10475.0  1095.0 10575.0  1095.0 10665.0  1095.0 11020.0
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GR1104.5 13038.0  1105.8 13298.0  1107.9 13844.0  1108.1 14020.0  1108.1 14322.0
GR1108.1 14521.0  1110.6 14669.0  1109.0 14693.0  1114.4 14821.0
HD14.932    10.0    9207   10475
X1 14.94    44.0    9140   11341      45      45      45
X3    10
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GR1098.0  9604.0  1094.9  9921.0  1091.0 10000.0  1091.0 10107.0  1096.2 10127.0
GR1095.5 10430.0  1095.1 10480.0  1095.1 10580.0  1080.1 10670.0  1080.1 11025.0
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GR1108.2 14521.0  1110.7 14669.0  1109.1 14693.0  1114.5 14821.0
HD 14.94    10.0    9207   10475
X115.063    40.0    9277   11399     650     650     650
X3    10
GR1129.5  7425.0  1131.5  8149.0  1131.2  8614.0  1130.8  8893.0  1130.3  9277.0
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GR1107.9 13490.0  1110.0 13772.0  1112.3 14455.0  1115.0 14926.0  1115.6 15017.0
HD15.063    10.0    9332   10590
X115.303      41    9681   11192    1175    1175    1175
X3    10
GR1130.6  8550.0  1130.0  8960.0  1122.9  9017.0  1122.9  9350.0  1129.8  9421.0
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GR1112.3 13701.0  1111.8 14045.0  1114.8 14555.0  1113.6 14647.0  1116.5 15208.0
GR1120.1 15704.0
HD15.303    10.0    9832   10540
X1 15.32      41    9681   11192      90      90      90
X3    10
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GR1110.7 13486.0  1114.4 13529.0  1114.6 13551.0  1111.0 13578.0  1111.0 13644.0
GR1112.5 13701.0  1112.0 14045.0  1115.0 14555.0  1113.8 14647.0  1116.7 15208.0
GR1120.3 15704.0
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NC   .04     .04     .03      .1      .3
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X3    10
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X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
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HD 15.98      10    9825   10836
NC                    .3      .5
X1 16.42      28  9776.8 10225.4    2185    2225    2215
X3    10
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GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42      10  9776.8 10225.4
X116.446      64  9768.4 10241.0      95      95      95
X3    10
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HD16.446      10  9768.4 10241.0
X1 16.45      64  9768.4 10241.0      20      20      20
X3    10
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GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
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HD 16.45      10  9768.4 10241.0
NC          .040             0.1       0.3
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GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10     9758    10178
NC  .045     .04
X1 17.38    30.0     9233    10670    2930     2140     2455
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
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HD 17.38      10     9233    10670
X1 17.76    33.0     8819    10431    2140     1900     1980
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1128.0  9307.0
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GR1128.8  9833.0  1128.0 10000.0  1128.0 10109.0  1131.2 10214.0  1131.5 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10     8819    10431
X1 18.24    28.0     8972    10927    2335     2690     2525
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1140.1  9799.0  1141.4  9937.0  1135.7 10000.0  1135.7 10046.0
GR1139.2 10063.0  1138.6 10302.0  1136.3 10346.0  1138.7 10430.0  1139.9 10626.0
GR1139.1 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10     8972    10927
X1 18.92      52  9447.5 10577.0     3620     3800     3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1149.2  9565.7
GR1149.2  9565.8  1149.2  9573.3  1149.2  9573.4  1149.2  9691.8  1149.2  9691.9
GR1149.2  9699.4  1149.2  9699.5  1149.2  9817.8  1149.2  9817.9  1149.2  9825.4
GR1149.2  9825.5  1149.2  9943.9  1149.2  9944.0  1149.2  9951.5  1149.2  9951.6
GR1149.2 10070.2  1149.2 10070.3  1149.2 10077.8  1149.2 10077.9  1149.2 10196.0
GR1149.2 10196.1  1149.2 10203.6  1149.2 10203.7  1149.2 10322.0  1149.2 10322.1
GR1149.2 10329.6  1149.2 10329.7  1149.2 10447.4  1149.2 10447.5  1149.2 10455.0
GR1149.2 10455.1  1149.2 10563.5  1163.9 10576.9  1172.0 10577.0  1171.9 10590.0
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GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    7491   10174    2805    2795    2800
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1162.5  9141.0
GR1164.5  9298.0  1163.9  9574.0  1160.9  9628.0  1163.0  9684.0  1163.3  9781.0
GR1158.4  9881.0  1159.4 10000.0  1159.4 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    7491   10174
X1 19.89    33.0    8142   10997    2375    2375    2375
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0  8141.9   10997     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1172.0  9500.0  1172.0  9626.0  1168.8  9844.0
GR1164.2  9930.0  1165.6 10000.0  1169.4 10067.0  1169.4 10231.0  1167.8 10267.0
GR1168.0 10344.0  1172.2 10381.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    8142   10886
X119.953    33.0  8141.9   10997      45      45      45
X3    10
GR1180.7  8142.0  1172.1  8142.0  1172.1  8259.0  1142.1  8304.0  1142.1  8837.0
GR1172.1  8884.0  1172.1  9610.0  1172.1  9620.0  1172.1  9626.0  1169.0  9844.0
GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
```

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GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
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GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42    49.0  9359.0 10853.0    2190    2140    2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X121.500    40.0    8950   13033   450.0   470.0   460.0
X3    10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500    10.0    9068   12976
X121.523    40.0    8950   13033   120.0   120.0   120.0
X3    10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523    10.0    9068   12976
X121.657    40.0    8453   13966   710.0   710.0   710.0
X3    10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680    35.0    8453   13966   120.0   120.0   120.0
X3    10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
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GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
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X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
GR1220.9 10000.0  1220.9 11265.0  1220.9 11315.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
X3    10
GR1263.0  9454.0  1261.1  9495.0  1226.7  9564.0  1221.1  9590.0  1221.1  9790.0
GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
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GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
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GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
GR1222.0 11532.0  1225.5 11576.0  1223.9 11706.0  1221.8 11727.0  1223.0 11843.0
GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
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GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
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GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
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GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
GR1235.1 12009.0  1252.2 12101.0  1249.8 12152.0  1251.4 12229.0  1248.8 12295.0
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GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10     8081    12009
NC 0.039   0.035    0.030
X124.070    38.0     7412    11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
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GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
GR1258.1 11503.0  1255.3 11711.0  1259.1 11799.0  1259.1 11910.0  1264.0 12010.0
GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10     7448    11244
X124.085    38.0     7412    11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10     7448    11244
X1 24.17    22.0     7030    11239   280.0   280.0   280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10     7139    11193
X124.193    22.0     7030    11239   120.0   120.0   120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10     7139    11193
NC 0.040   0.034    0.030
X1 24.35    32.0     7383    11392     945     945     945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.1  9475.0
GR1237.1  9605.0  1237.1  9685.0  1237.1  9893.0  1237.1 10000.0  1237.1 10174.0
GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10     7450    11345
X124.365    32.0     7383    11392      80      80      80
X3    10
GR1281.1  7170.0  1277.1  7277.0  1256.8  7383.0  1264.2  7450.0  1247.0  7565.0
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GR1247.4  7627.0  1244.4  7704.0  1247.5  7800.0  1244.1  7939.0  1239.8  7961.0
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GR1237.3  9600.0  1197.3  9680.0  1197.3  9893.0  1197.3 10000.0  1197.3 10174.0
GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
GR1236.5 11345.0  1265.1 11392.0  1264.4 11635.0  1264.0 11839.0  1273.4 11913.0
GR1273.3 12061.0  1269.4 12083.0
HD24.365      10     7450   11345
X124.468    33.0     7430   11477   545.0   545.0   545.0
X3     10
GR1289.3  6781.0  1285.1  6824.0  1259.6  6899.0  1260.2  7000.0  1258.5  7099.0
GR1263.1  7113.0  1259.2  7127.0  1263.5  7145.0  1254.3  7192.0  1255.3  7240.0
GR1250.7  7387.0  1255.5  7430.0  1248.7  7784.0  1242.7  7806.0  1241.8  8182.0
GR1239.8  8201.0  1240.8  8227.0  1242.2  8577.0  1243.3  9103.0  1240.5  9202.0
GR1242.7  9277.0  1238.9  9350.0  1238.9  9480.0  1198.9  9560.0  1198.9 10500.0
GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468      10     7784   11422
X124.491    33.0     7430   11477   120.0   120.0   120.0
X3     10
GR1289.6  6781.0  1285.4  6824.0  1259.9  6899.0  1260.5  7000.0  1258.8  7099.0
GR1263.4  7113.0  1259.5  7127.0  1263.8  7145.0  1254.6  7192.0  1255.6  7240.0
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GR1240.1  8201.0  1241.1  8227.0  1242.5  8577.0  1243.6  9103.0  1240.8  9202.0
GR1243.0  9277.0  1239.3  9350.0  1239.3  9480.0  1239.3  9560.0  1239.3 10500.0
GR1239.3 10620.0  1239.3 10670.0  1240.9 10799.0  1242.0 11004.0  1238.9 11184.0
GR1237.1 11422.0  1265.3 11477.0  1265.6 11540.0
HD24.491      10     7784   11422
X1 24.54    36.0  9240.0 10227.0     135     395     235
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
GR1245.6  7636.0  1243.2  7946.0  1243.5  8106.0  1243.4  8353.0  1243.6  8697.0
GR1244.5  8990.0  1244.5  9240.0  1242.9  9311.0  1241.6  9485.0  1242.9  9550.0
GR1242.1  9879.0  1240.3  9989.0  1238.3 10000.0  1238.3 10014.0  1242.7 10058.0
GR1244.6 10227.0  1240.8 10491.0  1242.8 10616.0  1240.2 10736.0  1243.1 10847.0
GR1240.6 11132.0  1239.2 11150.0  1238.8 11312.0  1241.5 11351.0  1239.8 11413.0
GR1243.1 11501.0  1241.6 11750.0  1239.2 11764.0  1239.1 11816.0  1276.1 11876.0
GR1278.6 12013.0
HD 24.54      10     9240   10227
NC 0.030   0.030    0.030
X1 24.90    43.0  9334.0 11529.0    2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
GR1250.9  8530.0  1252.2  8594.0  1251.2  8738.0  1252.8  8845.0  1252.5  9147.0
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GR1248.6  9839.0  1249.7  9933.0  1246.8  9959.0  1246.6 10000.0  1246.6 10037.0
GR1251.0 10053.0  1251.1 10206.0  1247.0 10559.0  1251.4 10684.0  1249.5 10806.0
GR1246.5 10832.0  1246.5 10895.0  1249.8 10918.0  1248.1 11176.0  1249.9 11194.0
GR1250.2 11328.0  1249.2 11417.0  1252.5 11529.0  1251.5 11894.0  1247.3 11933.0
GR1250.3 12174.0  1247.5 12200.0  1248.9 12432.0  1249.5 12596.0  1249.5 12718.0
GR1253.6 12781.0  1250.2 13053.0  1267.8 13098.0
HD 24.90      10     9334   11529
NC 0.040   0.040    0.030
X1 25.37    41.0  9459.0 11916.0    2420    2365    2485
GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
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GR1255.1  9896.0  1255.0 10000.0  1258.4 10016.0  1256.9 10326.0  1259.4 10451.0
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GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
GR1293.1 13301.0
HD 25.37      10     9459   11916
X1 25.59      14     9685   11070     1065     1230     1125
GR1300.0  9640.0  1280.0  9685.0  1264.0  9725.0  1260.0  9790.0  1260.0  9840.0
GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
GR1272.0 11070.0  1276.0 11100.0  1280.0 11120.0  1283.4 11270.0
HD 25.59      10     9685   11070
NC  .040    .040    .030
X1 25.86      25     8220   10215     1425     1495     1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
HD 25.86      10     8220   10215
NC  .041    .041    .033
X1 26.29      26.0   8722   11227     2090     2295     2240
GR1307.9  8275.0  1279.3  8338.0  1278.4  8722.0  1275.7  8754.0  1276.5  8962.0
GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
GR1271.6 10000.0  1273.7 10084.0  1278.8 10120.0  1278.2 10393.0  1278.4 10757.0
GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
GR1280.5 12462.0  1281.9 12794.0  1279.6 12804.0  1312.6 12882.0  1311.4 13079.0
GR1312.6 13190.0
HD 26.29      10     8722   11227
X1 26.73      30.0   9720   11263     2320     2310     2330
GR1312.2  9355.0  1313.9  9457.0  1289.8  9540.0  1287.5  9720.0  1282.4  9755.0
GR1285.6  9834.0  1280.7  9898.0  1279.8 10000.0  1279.9 10364.0  1283.4 10385.0
GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10     9720   11263
NC  .048    .043    .035
X1 27.03      23.0   9679   10553     1660     1020     1590
GR1307.8  9627.0  1301.5  9679.0  1283.2  9723.0  1281.2  9814.0  1282.6  9900.0
GR1287.2  9922.0  1283.5  9949.0  1283.4 10000.0  1283.4 10054.0  1286.2 10079.0
GR1288.9 10450.0  1290.7 10553.0  1288.0 10732.0  1291.0 10749.0  1291.0 11081.0
GR1291.4 12573.0  1293.7 12649.0  1291.4 12657.0  1301.2 12783.0  1303.3 12821.0
GR1300.5 12889.0  1319.6 12961.0  1330.8 13050.0
HD 27.03      10     9679   10553
NC  .040    .040    .035
X1 27.68      35.0   8224   10125     4120     3200     3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
GR1297.0  8243.0  1298.6  8317.0  1299.3  8587.0  1302.4  8679.0  1298.7  8774.0
GR1301.1  8870.0  1300.8  8938.0  1297.9  8961.0  1301.1  8999.0  1301.3  9184.0
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GR1295.3  9640.0  1295.4  9695.0  1301.1  9738.0  1301.6  9853.0  1295.7 10000.0
GR1294.7 10078.0  1310.2 10125.0  1310.7 10428.0  1311.8 10663.0  1305.9 10703.0
GR1312.1 10728.0  1309.4 10746.0  1311.0 10884.0  1330.0 10991.0  1330.2 11145.0
HD 27.68      10     8224   10125
X1 28.12      27.0   9108   10107     2360     2375     2355
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GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
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GR1304.9  9906.0  1304.6 10000.0  1304.6 10076.0  1310.3 10107.0  1310.7 10411.0
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GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10     9108    10107
X1 28.67    36.0     9950    11203     2785     2925     2885
GR1372.7  9450.0  1371.0  9866.0  1311.5  9964.0  1312.2 10000.0  1312.2 10192.0
GR1319.8 10514.0  1316.1 10819.0  1318.6 10989.0  1315.2 11044.0  1320.5 11203.0
GR1321.6 11445.0  1322.3 11634.0  1319.8 11968.0  1318.7 12107.0  1322.5 12170.0
GR1321.3 12228.0  1325.2 12397.0  1326.4 12792.0  1328.9 12823.0  1324.8 12860.0
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GR1352.8 13484.0  1356.1 13572.0  1358.7 13589.0  1358.8 13606.0  1348.0 13629.0
GR1348.2 13655.0  1363.9 13681.0  1363.8 13698.0  1355.7 13713.0  1356.7 13851.0
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HD 28.67      10     9950    11203
NC  .042    .042     .035
X1 29.04    33.0     9808    10638     2100     1270     1975
GR1360.0  9770    1320.3  9815.0  1317.3  9828.0  1317.2  9859.0  1319.6  9940.0
GR1317.2 10000.0  1317.2 10048.0  1322.9 10073.0  1324.3 10239.0  1324.4 10414.0
GR1321.2 10499.0  1319.4 10584.0  1326.7 10638.0  1326.0 10868.0  1326.7 11104.0
GR1325.3 11444.0  1322.9 11472.0  1324.3 11521.0  1323.1 11750.0  1330.4 11802.0
GR1330.3 12323.0  1331.2 12554.0  1336.4 12706.0  1332.2 12882.0  1335.8 13217.0
GR1343.9 13578.0  1351.5 13599.0  1352.4 13621.0  1344.3 13633.0  1344.4 13654.0
GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
HD 29.04      10     9808    10638
X1 29.54    29.0     9198    10150     2750     2235     2640
GR1378.7  9025.0  1375.5  9068.0  1350.7  9135.0  1348.6  9179.0  1332.4  9217.0
GR1333.5  9321.0  1333.9  9460.0  1331.2  9697.0  1328.7  9726.0  1328.4  9758.0
GR1332.9  9782.0  1332.2  9846.0  1327.0  9882.0  1326.7 10000.0  1326.7 10116.0
GR1340.7 10150.0  1343.0 10343.0  1346.5 10482.0  1348.3 10927.0  1347.8 11457.0
GR1349.2 11687.0  1354.2 11697.0  1354.2 11723.0  1345.8 11737.0  1345.8 11763.0
GR1355.3 11783.0  1355.4 11812.0  1352.6 11829.0  1378.3 11981.0
HD 29.54      10     9198    10150
X129.611    31.0     9052    10244      315      315      375
X3    10
GR1377.8  8825.0  1353.2  9052.0  1337.2  9136.0  1336.3  9285.0  1332.4  9541.0
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GR1331.6 10094.0  1342.3 10133.0  1351.2 10244.0  1345.5 10331.0  1349.1 10528.0
GR1349.1 10688.0  1349.9 10923.0  1353.4 10966.0  1353.4 11037.0  1345.1 11072.0
GR1345.1 11124.0  1352.5 11156.0  1352.5 11163.0  1345.4 11178.0  1345.5 11204.0
GR1353.7 11221.0  1353.4 11251.0  1351.1 11259.0  1353.1 11405.0  1358.4 11533.0
GR1378.5 11635.0
HD29.611      10     9052    10244
X1 29.80    16.0     9347    10610     1295     1340     1400
GR1378.4  9270.0  1373.4  9347.0  1338.8  9419.0  1335.4  9475.0  1340.8  9512.0
GR1342.7  9656.0  1338.9  9882.0  1331.2  9924.0  1331.4 10000.0  1332.7 10180.0
GR1337.6 10205.0  1337.6 10215.0  1327.7 10335.0  1336.3 10521.0  1344.4 10610.0
GR1349.2 10676.0
HD 29.80      10     9347    10610
X1 30.07    17.0     9604    10306     1425     1440     1420
GR1369.4  9325.0  1363.9  9463.0  1360.9  9604.0  1341.5  9665.0  1343.1  9728.0
GR1340.8  9781.0  1340.4  9910.0  1344.6  9925.0  1334.4  9986.0  1334.4 10000.0
GR1335.0 10060.0  1344.5 10098.0  1343.6 10114.0  1336.6 10132.0  1334.0 10261.0
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GR1365.9 10306.0  1365.0 10356.0
HD 30.07      10     9604    10306
X1 30.26    12.0     9711    10643      870     1090     1005
GR1357.2  9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10     9711    10643
NC 0.043   0.043    0.045
X1 30.82    12.0     9865    11244     2955     2840     2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
GR1352.0 10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
GR1354.5 11132.0  1399.1 11244.0
HD 30.82      10     9865    11244
NC 0.043   0.043    0.037
X1 31.39    17.0     9470    10633     2900     3165     2970
GR1397.8  9290.0  1386.7  9342.0  1392.7  9386.0  1393.4  9470.0  1356.5  9526.0
GR1354.7  9561.0  1361.2  9643.0  1363.1  9792.0  1359.4  9942.0  1356.8  9978.0
GR1356.9 10000.0  1357.4 10080.0  1361.5 10242.0  1360.1 10387.0  1368.0 10456.0
GR1368.6 10528.0  1407.9 10633.0
HD 31.39      10     9470    10633
X1 31.86    10.0     9490    10321     2550     2485     2505
GR1411.1  8955.0  1408.4  9155.0  1407.3  9490.0  1362.0  9604.0  1364.9  9727.0
GR1366.7  9894.0  1366.7 10000.0  1365.3 10261.0  1394.3 10321.0  1420.6 10419.0
HD 31.86      10     9490    10321
NC 0.043   0.052    0.040
X1 32.43    14.0     9438    10437     2885     2970     2980
GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
GR1372.6  9692.0  1375.5  9852.0  1373.4  9965.0  1370.7 10000.0  1372.7 10073.0
GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10     9438    10437
NC  .049   .049    .042
X1 32.86    12.0     9719    10564     2405     2135     2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10     9719    10564
NC  .047   .055    .032
X132.984      33     9750    10150      648      648      648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10     9750    10150
X132.998     9.0     9762    10164       72       72       72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10     9762    10164
NC  .060   .050    .050
X1 33.41    12.0     9750    10687     1880     2270     2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
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HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                      RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                         PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                                 UPDATED ON:  MAY 15, 1992
T8      ************************************************************************
I1             10       0       0   0.999  32.174
I4              9       1      10    2.65       0       0       0       0       0
I5             .5      .5     .25      .5     .25       0     1.0
LQ      Q    0.01   4000.  20000.  40000.  60000.  85000.
LT     QS    0.01   3082.  26604.  56358.  97056. 155824.
LF    VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF     FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF     MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF     CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF    VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF    VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF     FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF     MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF     CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF    VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160          0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N        0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N  0.440          0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N        0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  0.730          0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N        0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  1.330          0.20997 0.04955 0.95000         0.00445 0.04807 0.21089 0.19967
N        0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N  1.710          0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N        0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.020          0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N        0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.600          0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
N        0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  2.800          0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
N        0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  3.270          0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
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$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q  5875.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q  5875.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 11750.   2500.
X             0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 11750.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 17625.   3750.
X             0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 17625.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 23500.   5000.
X             0.1     0.4
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*        TIME DURATION 8 - HYDROGRAPH 1
Q 23500.    5000.
W 0.0625
*        TIME DURATION 9 - HYDROGRAPH 1
Q 17625.    3750.
X             0.1     0.9
*        TIME DURATION 10 - HYDROGRAPH 1
Q 17625.    3750.
W  0.025
*        TIME DURATION 11 - HYDROGRAPH 1
Q 11750.    2500.
X             0.1     1.3
*        TIME DURATION 12 - HYDROGRAPH 1
Q 11750.    2500.
W   0.09
*        TIME DURATION 13 - HYDROGRAPH 1
Q  5875.    1250.
X             0.1     1.8
*     B  TIME DURATION 14 - HYDROGRAPH 1
Q  5875.    1250.
W   0.05
$$END
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# APPENDIX I.2.2 - MODEL II (100-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070   0.040   0.044      .1       .3
X1 0.160    47.0    8000   12725      470      460      465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160      10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420     1510     1465     1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440      10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394     1565     1475     1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0   15560
HD 0.730      10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456     3405     3325     3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330      10    8038   10456
NC 0.041   0.040   0.035
X1 1.710      44    9091 10284.4     2000     2585     2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890    2065    1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6    2700    2945    3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222    1250     655    1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5    2800    1995    2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5     760     635     685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4     165     160     165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603    1575    1585    1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0       0       0
X1 3.734    63.0  9400.9 10599.3      25      25      25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734      0       0       0
X1 3.757    7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757      0       0       0
X1 3.767     92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767      0       0       0
NC   .04   .045    .025
X1 4.094    7.0    9440   10578    1770    1760    1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094     10    9440   10578
X1 4.270   15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270     10    9449   10588
X1 4.700    9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
GR 961.1 10353.0   962.8 10562.0   978.8 10579.0   978.9 10595.0
HD 4.700     10    9451   10588
X1 4.754   53.0  9402.5 10572.4     150     310     225
X3    10
GR 973.0  7150.0   972.7  8115.0   973.6  8831.0   984.3  9296.0   988.1  9402.5
GR 988.1  9427.7   980.6  9427.8   960.3  9445.8   960.3  9525.5   960.3  9525.6
GR 960.3  9537.6   960.3  9537.7   960.3  9641.5   960.3  9641.6   960.3  9653.6
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GR 960.3  9653.7   960.3  9757.4   960.3  9757.5   960.3  9769.5   960.3  9769.6
GR 960.3  9873.4   960.3  9873.5   960.3  9885.5   960.3  9885.6   960.3  9997.8
GR 960.3  9997.9   960.3 10009.9   960.3 10010.0   960.3 10105.8   960.3 10105.9
GR 960.3 10117.9   960.3 10118.0   960.3 10221.3   960.3 10221.4   960.3 10233.4
GR 960.3 10233.5   960.3 10337.9   960.3 10338.0   960.3 10349.0   960.3 10349.1
GR 960.3 10453.5   960.3 10453.6   960.3 10465.6   960.3 10465.7   960.3 10555.9
GR 981.2 10572.3   988.7 10572.4   988.7 10597.0   987.2 10612.0   978.1 11023.0
GR 978.7 11497.0   980.6 12014.0   982.4 12466.0
HD 4.754      10  9445.8 10555.9
X1 4.790     6.0    9440   10590     357     187     277
GR 980.2  9440.0   964.0  9466.0   961.1 10000.0   964.6 10568.0   980.8 10590.0
GR 980.8 10600.0
HD 4.790      10  9440.0   10590
X1 5.150     9.0    9291   10713    1780    1960    1873
GR 986.0  9275.0   986.0  9291.0   969.9  9310.0   968.1  9678.0   967.4 10000.0
GR 968.7 10469.0   968.9 10691.0   986.0 10713.0   986.0 10720.0
HD 5.150      10    9291   10713
NC  .040    .040    .022
X1 5.290      82  9250.8 10672.4     695     865     775
GR 994.5  9250.7   986.4  9250.8   971.5  9277.5   971.5  9318.7   971.5  9318.8
GR 971.5  9323.4   971.5  9323.5   971.5  9389.9   971.5  9390.0   971.5  9394.5
GR 971.5  9394.6   971.5  9460.9   971.5  9461.0   971.5  9465.6   971.5  9465.7
GR 971.5  9532.1   971.5  9532.2   971.5  9536.8   971.5  9536.9   971.5  9603.3
GR 971.5  9603.4   971.5  9608.0   971.5  9608.1   971.5  9674.5   971.5  9674.6
GR 971.5  9679.2   971.5  9679.3   971.5  9745.7   971.5  9745.8   971.5  9750.4
GR 971.5  9750.5   971.5  9816.9   971.5  9817.0   971.5  9821.6   971.5  9821.7
GR 971.5  9888.1   971.5  9888.2   971.5  9892.8   971.5  9892.9   971.5  9959.3
GR 971.5  9959.4   971.5  9964.0   971.5  9964.1   971.5 10030.0   971.5 10030.1
GR 971.5 10034.7   971.5 10034.8   971.5 10101.2   971.5 10101.3   971.5 10105.9
GR 971.5 10106.0   971.5 10172.3   971.5 10172.4   971.5 10177.0   971.5 10177.1
GR 971.5 10243.7   971.5 10243.8   971.5 10248.4   971.5 10248.5   971.5 10314.9
GR 971.5 10315.0   971.5 10319.6   971.5 10319.7   971.5 10386.0   971.5 10386.1
GR 971.5 10390.7   971.5 10390.8   971.5 10457.2   971.5 10457.3   971.5 10461.9
GR 971.5 10462.0   971.5 10528.4   971.5 10528.5   971.5 10533.0   971.5 10533.1
GR 971.5 10599.5   971.5 10599.6   971.5 10604.2   971.5 10604.3   971.5 10645.5
GR 989.4 10672.3   997.7 10672.4
HD 5.290      10  9250.8 10672.4
NC   .04    .04    .025
X1 5.380     20.0    9266   10656     305     645     465
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NC   .04    .04    .022      .3      .5
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GR 973.9  9614.2   973.9  9725.8   973.9  9725.9   973.9  9733.3   973.9  9733.4
GR 973.9  9843.3   973.9  9843.4   973.9  9850.8   973.9  9850.9   973.9  9961.3
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GR 990.8 10552.8   996.9 10552.9
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NC   .04     .04     .025
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GR 989.2 10579.0    989.6 10596.0
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GR1051.8  5983.0  1051.7  5996.0  1056.2  6015.0  1056.2  6032.0  1056.5  6147.0
GR1054.7  6200.0  1054.7  7200.0  1054.6  7406.0  1059.6  7529.0  1058.4  7629.0
GR1054.9  7711.0  1054.7  7825.0  1054.1  7909.0  1054.2  8003.0  1063.1  8113.0
GR1061.9  8139.0  1065.5  8163.0  1066.5  8224.0  1056.7  8280.0  1051.6  8480.0
GR1051.6  8950.0  1064.5  8998.0  1072.8  9070.0  1061.9  9175.0  1060.0  9249.0
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GR1062.2  9893.0  1049.3  9925.0  1049.0 10000.0  1049.0 10062.0  1060.0 10110.0
GR1063.6 10163.0  1072.3 10233.0  1076.2 10302.0  1075.0 10388.0  1072.1 10447.0
GR1074.2 10502.0
HD 11.80       10     8224    10302
X1 12.38     28.0   9379.0    10302     2885     2885     2885
GR1064.9  6240.0  1064.9  7002.0  1064.9  7519.0  1058.8  7538.0  1059.1  7761.0
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GR1055.7  9850.0  1053.3 10000.0  1053.4 10035.0  1060.4 10086.0  1056.7 10286.0
GR1068.9 10302.0  1072.6 10857.0  1078.2 11420.0
HD 12.38       10     9379    10302
X1 13.33       72   9251.1  10758.5     5075     5065     5070
GR1104.9  5540.0  1099.6  5578.0  1107.5  5891.0  1109.7  6222.0  1105.2  6522.0
GR1095.7  6809.0  1091.5  6880.0  1089.0  7130.0  1090.0  7510.0  1090.5  7760.0
GR1088.5  8360.0  1090.0  8660.0  1092.8  9228.2  1093.0  9251.0  1086.4  9251.1
GR1071.5  9268.5  1071.5  9370.4  1071.5  9370.5  1071.5  9379.5  1071.5  9379.6
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GR1071.5  9623.5  1071.5  9632.5  1071.5  9632.6  1071.5  9748.4  1071.5  9748.5
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GR1071.5 10741.1  1086.4 10758.5  1093.0 10758.6  1092.8 10784.0  1090.0 10910.0
GR1090.1 11080.0  1088.0 11380.0  1090.4 11740.0  1096.7 12172.0  1097.3 12475.0
GR1099.6 12607.0  1100.0 13232.0
HD 13.33      10  9251.1 10758.5
NC  0.04    0.04    0.03
X1 13.81    30.0    7867   10525    2560    2560    2560
X3    10
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GR1082.3  7145.0  1085.1  7198.0  1080.5  7254.0  1085.4  7285.0  1083.6  7601.0
GR1084.8  7867.0  1080.5  8265.0  1080.5  8365.0  1080.5  8485.0  1080.5  9315.0
GR1080.5  9435.0  1080.5  9535.0  1081.5  9580.0  1078.6  9597.0  1078.6 10000.0
GR1078.4 10183.0  1082.8 10226.0  1080.2 10454.0  1085.1 10525.0  1087.0 10634.0
GR1099.6 10738.0  1095.4 10896.0  1096.7 11458.0  1099.1 11517.0  1099.1 11575.0
HD 13.81    10.0    8265   10454
X113.855    30.0    7867   10525     240     240     240
X3    10
GR1099.5  6280.0  1088.6  6333.0  1084.4  6543.0  1086.1  6895.0  1086.1  7105.0
GR1082.8  7145.0  1085.6  7198.0  1081.0  7254.0  1085.9  7285.0  1084.1  7601.0
GR1085.3  7867.0  1081.0  8265.0  1081.0  8365.0  1041.0  8485.0  1041.0  9315.0
GR1081.0  9435.0  1081.0  9535.0  1082.0  9580.0  1079.1  9597.0  1079.1 10000.0
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GR1100.1 10738.0  1095.9 10896.0  1097.2 11458.0  1099.6 11517.0  1099.6 11575.0
HD13.855    10.0    8265   10454
X1 14.38    36.0    8125   10691    2170    3125    2725
X3    10
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
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GR1085.4  8140.0  1085.4  8240.0  1045.4  8360.0  1045.4  9190.0  1085.4  9310.0
GR1085.4  9320.0  1085.4  9350.0  1085.4  9400.0  1085.4  9410.0  1089.1  9458.0
GR1088.0  9838.0  1084.4 10000.0  1084.4 10065.0  1092.0 10085.0  1092.6 10234.0
GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38    10.0    8140   10571
X114.412    36.0    8125   10691     240     240     240
X3    10
GR1114.5  6715.0  1112.5  6750.0  1104.5  6765.0  1100.5  6790.0  1092.5  6830.0
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GR1085.9  8140.0  1085.9  8240.0  1085.9  8360.0  1085.9  9190.0  1085.9  9310.0
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GR1088.5  9838.0  1084.9 10000.0  1084.9 10065.0  1092.5 10085.0  1093.1 10234.0
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GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
HD14.412    10.0    8140   10571
X1 14.85    37.0    9106   10454    2050    2150    2190
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HD 14.85    10.0    9106   10454
X114.932    44.0    9140   11341     425     425     425
X3    10
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GR1095.5 10430.0  1095.0 10475.0  1095.0 10575.0  1095.0 10665.0  1095.0 11020.0
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GR1108.1 14521.0  1110.6 14669.0  1109.0 14693.0  1114.4 14821.0
HD14.932    10.0    9207   10475
X1 14.94    44.0    9140   11341      45      45      45
X3    10
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GR1098.0  9604.0  1094.9  9921.0  1091.0 10000.0  1091.0 10107.0  1096.2 10127.0
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X115.063    40.0    9277   11399     650     650     650
X3    10
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X115.303      41    9681   11192    1175    1175    1175
X3    10
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GR1112.3 13701.0  1111.8 14045.0  1114.8 14555.0  1113.6 14647.0  1116.5 15208.0
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X1 15.32      41    9681   11192      90      90      90
X3    10
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NC   .04     .04     .03      .1      .3
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X3    10
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X3    10
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HD 15.98      10    9825   10836
NC                    .3      .5
X1 16.42      28  9776.8 10225.4    2185    2225    2215
X3    10
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GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
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X3    10
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X1 16.45      64  9768.4 10241.0      20      20      20
X3    10
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GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
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NC          .040             0.1       0.3
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GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
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HD 16.91      10     9758   10178
NC  .045     .04
X1 17.38    30.0     9233    10670    2930     2140     2455
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1123.5  9271.0  1123.8  9463.0
GR1127.5  9845.0  1122.5  9863.0  1121.7 10000.0  1124.9 10068.0  1124.9 10289.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10     9233    10670
X1 17.76    33.0     8819    10431    2140     1900     1980
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1128.0  9307.0
GR1132.0  9337.0  1128.0  9539.0  1128.0  9703.0  1128.0  9724.0  1128.0  9779.0
GR1128.8  9833.0  1128.0 10000.0  1128.0 10109.0  1131.2 10214.0  1131.5 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10     8819    10431
X1 18.24    28.0     8972    10927    2335     2690     2525
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1140.1  9799.0  1141.4  9937.0  1135.7 10000.0  1135.7 10046.0
GR1139.2 10063.0  1138.6 10302.0  1136.3 10346.0  1138.7 10430.0  1139.9 10626.0
GR1139.1 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10     8972    10927
X1 18.92      52  9447.5 10577.0    3620     3800     3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1149.2  9565.7
GR1149.2  9565.8  1149.2  9573.3  1149.2  9573.4  1149.2  9691.8  1149.2  9691.9
GR1149.2  9699.4  1149.2  9699.5  1149.2  9817.8  1149.2  9817.9  1149.2  9825.4
GR1149.2  9825.5  1149.2  9943.9  1149.2  9944.0  1149.2  9951.5  1149.2  9951.6
GR1149.2 10070.2  1149.2 10070.3  1149.2 10077.8  1149.2 10077.9  1149.2 10196.0
GR1149.2 10196.1  1149.2 10203.6  1149.2 10203.7  1149.2 10322.0  1149.2 10322.1
GR1149.2 10329.6  1149.2 10329.7  1149.2 10447.4  1149.2 10447.5  1149.2 10455.0
GR1149.2 10455.1  1149.2 10563.5  1163.9 10576.9  1172.0 10577.0  1171.9 10590.0
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GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    7491   10174    2805    2795    2800
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1162.5  9141.0
GR1164.5  9298.0  1163.9  9574.0  1160.9  9628.0  1163.0  9684.0  1163.3  9781.0
GR1158.4  9881.0  1159.4 10000.0  1159.4 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    7491   10174
X1 19.89    33.0    8142   10997    2375    2375    2375
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0  8141.9   10997     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1172.0  9500.0  1172.0  9626.0  1168.8  9844.0
GR1164.2  9930.0  1165.6 10000.0  1169.4 10067.0  1169.4 10231.0  1167.8 10267.0
GR1168.0 10344.0  1172.2 10381.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    8142   10886
X119.953    33.0  8141.9   10997      45      45      45
X3    10
GR1180.7  8142.0  1172.1  8142.0  1172.1  8259.0  1142.1  8304.0  1142.1  8837.0
GR1172.1  8884.0  1172.1  9610.0  1172.1  9620.0  1172.1  9626.0  1169.0  9844.0
GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
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GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
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GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42    49.0  9359.0 10853.0    2190    2140    2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X121.500    40.0    8950   13033   450.0   470.0   460.0
X3    10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500    10.0    9068   12976
X121.523    40.0    8950   13033   120.0   120.0   120.0
X3    10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523    10.0    9068   12976
X121.657    40.0    8453   13966   710.0   710.0   710.0
X3    10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680    35.0    8453   13966   120.0   120.0   120.0
X3    10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
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GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
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X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
GR1220.9 10000.0  1220.9 11265.0  1220.9 11315.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
X3    10
GR1263.0  9454.0  1261.1  9495.0  1226.7  9564.0  1221.1  9590.0  1221.1  9790.0
GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
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GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
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GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
GR1222.0 11532.0  1225.5 11576.0  1223.9 11706.0  1221.8 11727.0  1223.0 11843.0
GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
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GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
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GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
GR1230.2  8170.0  1232.1  8230.0  1230.3  8450.0  1230.3  8803.0  1232.6  8953.0
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GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
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GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10     8081    12009
NC 0.039   0.035    0.030
X124.070     38.0     7412    11352    1190.0    1190.0    1190.0
X3     10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
GR1236.2  8719.0  1232.9  9065.0  1232.9  9195.0  1232.9  9275.0  1232.9  9500.0
GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
GR1258.1 11503.0  1255.3 11711.0  1259.1 11799.0  1259.1 11910.0  1264.0 12010.0
GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10     7448    11244
X124.085     38.0     7412    11352      80.0      80.0      80.0
X3     10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10     7448    11244
X1 24.17     22.0     7030    11239      280.0      280.0      280.0
X3     10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10     7139    11193
X124.193     22.0     7030    11239      120.0      120.0      120.0
X3     10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10     7139    11193
NC 0.040   0.034    0.030
X1 24.35     32.0     7383    11392        945        945        945
X3     10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.1  9475.0
GR1237.1  9605.0  1237.1  9685.0  1237.1  9893.0  1237.1 10000.0  1237.1 10174.0
GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10     7450    11345
X124.365     32.0     7383    11392         80         80         80
X3     10
GR1281.1  7170.0  1277.1  7277.0  1256.8  7383.0  1264.2  7450.0  1247.0  7565.0
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GR1247.4  7627.0  1244.4  7704.0  1247.5  7800.0  1244.1  7939.0  1239.8  7961.0
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GR1237.3  9600.0  1197.3  9680.0  1197.3  9893.0  1197.3 10000.0  1197.3 10174.0
GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
GR1236.5 11345.0  1265.1 11392.0  1264.4 11635.0  1264.0 11839.0  1273.4 11913.0
GR1273.3 12061.0  1269.4 12083.0
HD24.365      10     7450    11345
X124.468    33.0     7430    11477   545.0   545.0   545.0
X3    10
GR1289.3  6781.0  1285.1  6824.0  1259.6  6899.0  1260.2  7000.0  1258.5  7099.0
GR1263.1  7113.0  1259.2  7127.0  1263.5  7145.0  1254.3  7192.0  1255.3  7240.0
GR1250.7  7387.0  1255.5  7430.0  1248.7  7784.0  1242.7  7806.0  1241.8  8182.0
GR1239.8  8201.0  1240.8  8227.0  1242.2  8577.0  1243.3  9103.0  1240.5  9202.0
GR1242.7  9277.0  1238.9  9350.0  1238.9  9480.0  1198.9  9560.0  1198.9 10500.0
GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468      10     7784    11422
X124.491    33.0     7430    11477   120.0   120.0   120.0
X3    10
GR1289.6  6781.0  1285.4  6824.0  1259.9  6899.0  1260.5  7000.0  1258.8  7099.0
GR1263.4  7113.0  1259.5  7127.0  1263.8  7145.0  1254.6  7192.0  1255.6  7240.0
GR1251.0  7387.0  1255.8  7430.0  1249.0  7784.0  1243.0  7806.0  1242.1  8182.0
GR1240.1  8201.0  1241.1  8227.0  1242.5  8577.0  1243.6  9103.0  1240.8  9202.0
GR1243.0  9277.0  1239.3  9350.0  1239.3  9480.0  1239.3  9560.0  1239.3 10500.0
GR1239.3 10620.0  1239.3 10670.0  1240.9 10799.0  1242.0 11004.0  1238.9 11184.0
GR1237.1 11422.0  1265.3 11477.0  1265.6 11540.0
HD24.491      10     7784    11422
X1 24.54    36.0  9240.0 10227.0     135     395     235
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
GR1245.6  7636.0  1243.2  7946.0  1243.5  8106.0  1243.4  8353.0  1243.6  8697.0
GR1244.5  8990.0  1244.5  9240.0  1242.9  9311.0  1241.6  9485.0  1242.9  9550.0
GR1242.1  9879.0  1240.3  9989.0  1238.3 10000.0  1238.3 10014.0  1242.7 10058.0
GR1244.6 10227.0  1240.8 10491.0  1242.8 10616.0  1240.2 10736.0  1243.1 10847.0
GR1240.6 11132.0  1239.2 11150.0  1238.8 11312.0  1241.5 11351.0  1239.8 11413.0
GR1243.1 11501.0  1241.6 11750.0  1239.2 11764.0  1239.1 11816.0  1276.1 11876.0
GR1278.6 12013.0
HD 24.54      10     9240    10227
NC 0.030   0.030    0.030
X1 24.90    43.0  9334.0 11529.0    2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
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GR1248.6  9839.0  1249.7  9933.0  1246.8  9959.0  1246.6 10000.0  1246.6 10037.0
GR1251.0 10053.0  1251.1 10206.0  1247.0 10559.0  1251.4 10684.0  1249.5 10806.0
GR1246.5 10832.0  1246.5 10895.0  1249.8 10918.0  1248.1 11176.0  1249.9 11194.0
GR1250.2 11328.0  1249.2 11417.0  1252.5 11529.0  1251.5 11894.0  1247.3 11933.0
GR1250.3 12174.0  1247.5 12200.0  1248.9 12432.0  1249.5 12596.0  1249.5 12718.0
GR1253.6 12781.0  1250.2 13053.0  1267.8 13098.0
HD 24.90      10     9334    11529
NC 0.040   0.040    0.030
X1 25.37    41.0  9459.0 11916.0    2420    2365    2485
GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
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GR1255.1  9896.0  1255.0 10000.0  1258.4 10016.0  1256.9 10326.0  1259.4 10451.0
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GR1259.9 11613.0  1259.9 11663.0  1257.2 11706.0  1260.9 11754.0  1259.0 11833.0
GR1282.4 11916.0  1285.6 12047.0  1279.8 12169.0  1289.6 12311.0  1289.6 12356.0
GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
GR1293.1 13301.0
HD 25.37      10     9459   11916
X1 25.59      14     9685   11070     1065     1230     1125
GR1300.0  9640.0  1280.0  9685.0  1264.0  9725.0  1260.0  9790.0  1260.0  9840.0
GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
GR1272.0 11070.0  1276.0 11100.0  1280.0 11120.0  1283.4 11270.0
HD 25.59      10     9685   11070
NC  .040    .040    .030
X1 25.86      25     8220   10215     1425     1495     1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
HD 25.86      10     8220   10215
NC  .041    .041    .033
X1 26.29      26.0   8722   11227     2090     2295     2240
GR1307.9  8275.0  1279.3  8338.0  1278.4  8722.0  1275.7  8754.0  1276.5  8962.0
GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
GR1271.6 10000.0  1273.7 10084.0  1278.8 10120.0  1278.2 10393.0  1278.4 10757.0
GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
GR1280.5 12462.0  1281.9 12794.0  1279.6 12804.0  1312.6 12882.0  1311.4 13079.0
GR1312.6 13190.0
HD 26.29      10     8722   11227
X1 26.73      30.0   9720   11263     2320     2310     2330
GR1312.2  9355.0  1313.9  9457.0  1289.8  9540.0  1287.5  9720.0  1282.4  9755.0
GR1285.6  9834.0  1280.7  9898.0  1279.8 10000.0  1279.9 10364.0  1283.4 10385.0
GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10     9720   11263
NC  .048    .043    .035
X1 27.03      23.0   9679   10553     1660     1020     1590
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GR1287.2  9922.0  1283.5  9949.0  1283.4 10000.0  1283.4 10054.0  1286.2 10079.0
GR1288.9 10450.0  1290.7 10553.0  1288.0 10732.0  1291.0 10749.0  1291.0 11081.0
GR1291.4 12573.0  1293.7 12649.0  1291.4 12657.0  1301.2 12783.0  1303.3 12821.0
GR1300.5 12889.0  1319.6 12961.0  1330.8 13050.0
HD 27.03      10     9679   10553
NC  .040    .040    .035
X1 27.68      35.0   8224   10125     4120     3200     3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
GR1297.0  8243.0  1298.6  8317.0  1299.3  8587.0  1302.4  8679.0  1298.7  8774.0
GR1301.1  8870.0  1300.8  8938.0  1297.9  8961.0  1301.1  8999.0  1301.3  9184.0
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GR1295.3  9640.0  1295.4  9695.0  1301.1  9738.0  1301.6  9853.0  1295.7 10000.0
GR1294.7 10078.0  1310.2 10125.0  1310.7 10428.0  1311.8 10663.0  1305.9 10703.0
GR1312.1 10728.0  1309.4 10746.0  1311.0 10884.0  1330.0 10991.0  1330.2 11145.0
HD 27.68      10     8224   10125
X1 28.12      27.0   9108   10107     2360     2375     2355
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GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
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GR1304.9  9906.0  1304.6 10000.0  1304.6 10076.0  1310.3 10107.0  1310.7 10411.0
GR1306.3 10527.0  1307.3 10680.0  1308.6 10781.0  1308.5 10866.0  1310.8 10916.0
GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10     9108    10107
X1 28.67    36.0     9950    11203     2785     2925     2885
GR1372.7  9450.0  1371.0  9866.0  1311.5  9964.0  1312.2 10000.0  1312.2 10192.0
GR1319.8 10514.0  1316.1 10819.0  1318.6 10989.0  1315.2 11044.0  1320.5 11203.0
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GR1321.3 12228.0  1325.2 12397.0  1326.4 12792.0  1328.9 12823.0  1324.8 12860.0
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GR1352.8 13484.0  1356.1 13572.0  1358.7 13589.0  1358.8 13606.0  1348.0 13629.0
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HD 28.67      10     9950    11203
NC  .042    .042     .035
X1 29.04    33.0     9808    10638     2100     1270     1975
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GR1330.3 12323.0  1331.2 12554.0  1336.4 12706.0  1332.2 12882.0  1335.8 13217.0
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GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
HD 29.04      10     9808    10638
X1 29.54    29.0     9198    10150     2750     2235     2640
GR1378.7  9025.0  1375.5  9068.0  1350.7  9135.0  1348.6  9179.0  1332.4  9217.0
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GR1332.9  9782.0  1332.2  9846.0  1327.0  9882.0  1326.7 10000.0  1326.7 10116.0
GR1340.7 10150.0  1343.0 10343.0  1346.5 10482.0  1348.3 10927.0  1347.8 11457.0
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GR1355.3 11783.0  1355.4 11812.0  1352.6 11829.0  1378.3 11981.0
HD 29.54      10     9198    10150
X129.611    31.0     9052    10244      315      315      375
X3    10
GR1377.8  8825.0  1353.2  9052.0  1337.2  9136.0  1336.3  9285.0  1332.4  9541.0
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GR1345.1 11124.0  1352.5 11156.0  1352.5 11163.0  1345.4 11178.0  1345.5 11204.0
GR1353.7 11221.0  1353.4 11251.0  1351.1 11259.0  1353.1 11405.0  1358.4 11533.0
GR1378.5 11635.0
HD29.611      10     9052    10244
X1 29.80    16.0     9347    10610     1295     1340     1400
GR1378.4  9270.0  1373.4  9347.0  1338.8  9419.0  1335.4  9475.0  1340.8  9512.0
GR1342.7  9656.0  1338.9  9882.0  1331.2  9924.0  1331.4 10000.0  1332.7 10180.0
GR1337.6 10205.0  1337.6 10215.0  1327.7 10335.0  1336.3 10521.0  1344.4 10610.0
GR1349.2 10676.0
HD 29.80      10     9347    10610
X1 30.07    17.0     9604    10306     1425     1440     1420
GR1369.4  9325.0  1363.9  9463.0  1360.9  9604.0  1341.5  9665.0  1343.1  9728.0
GR1340.8  9781.0  1340.4  9910.0  1344.6  9925.0  1334.4  9986.0  1334.4 10000.0
GR1335.0 10060.0  1344.5 10098.0  1343.6 10114.0  1336.6 10132.0  1334.0 10261.0
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GR1365.9 10306.0  1365.0 10356.0
HD 30.07      10    9604   10306
X1 30.26    12.0    9711   10643     870    1090    1005
GR1357.2  9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043   0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
GR1352.0 10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
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HD 30.82      10    9865   11244
NC 0.043   0.043   0.037
X1 31.39    17.0    9470   10633    2900    3165    2970
GR1397.8  9290.0  1386.7  9342.0  1392.7  9386.0  1393.4  9470.0  1356.5  9526.0
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GR1368.6 10528.0  1407.9 10633.0
HD 31.39      10    9470   10633
X1 31.86    10.0    9490   10321    2550    2485    2505
GR1411.1  8955.0  1408.4  9155.0  1407.3  9490.0  1362.0  9604.0  1364.9  9727.0
GR1366.7  9894.0  1366.7 10000.0  1365.3 10261.0  1394.3 10321.0  1420.6 10419.0
HD 31.86      10    9490   10321
NC 0.043   0.052   0.040
X1 32.43    14.0    9438   10437    2885    2970    2980
GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
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GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10    9438   10437
NC  .049   .049   .042
X1 32.86    12.0    9719   10564    2405    2135    2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10    9719   10564
NC  .047   .055   .032
X132.984      33    9750   10150     648     648     648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10    9750   10150
X132.998     9.0    9762   10164      72      72      72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10    9762   10164
NC  .060   .050   .050
X1 33.41    12.0    9750   10687    1880    2270    2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
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HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                      RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                         PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                                 UPDATED ON:  MAY 15, 1992
T8      ************************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01    4000.   20000.  40000.  60000.  85000.
LT      QS    0.01    3082.   26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160          0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
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N  0.730          0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
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N  1.710          0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N  2.020          0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
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N          0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
```

```
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061          0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q  9250.   1250.
T    60.     60.
X            0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q  9250.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 18500.   2500.
X            0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 18500.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 27750.   3750.
X            0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 27750.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 37000.   5000.
X            0.1     0.4
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*       TIME DURATION 8 - HYDROGRAPH 1
Q 37000.    5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 27750.    3750.
X             0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 27750.    3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 18500.    2500.
X             0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 18500.    2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q  9250.    1250.
X             0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q  9250.    1250.
W   0.05
$$END
```

# APPENDIX I.2.3 - MODEL II (200-YEAR)

```
T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070   0.040   0.044      .1       .3
X1 0.160    47.0    8000   12725      470      460      465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160      10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420     1510     1465     1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440      10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394     1565     1475     1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0   15560
HD 0.730      10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456     3405     3325     3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330      10    8038   10456
NC 0.041   0.040   0.035
X1 1.710      44    9091 10284.4     2000     2585     2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890    2065    1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6    2700    2945    3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222    1250     655    1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5    2800    1995    2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5     760     635     685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4     165     160     165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603    1575    1585    1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0       0       0
X1 3.734    63.0  9400.9 10599.3      25      25      25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767       0       0       0
NC   .04    .045    .025
X1 4.094     7.0    9440   10578    1770    1760    1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
X1 4.270    15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270      10    9449   10588
X1 4.700     9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
GR 961.1 10353.0   962.8 10562.0   978.8 10579.0   978.9 10595.0
HD 4.700      10    9451   10588
X1 4.754    53.0  9402.5 10572.4     150     310     225
X3    10
GR 973.0  7150.0   972.7  8115.0   973.6  8831.0   984.3  9296.0   988.1  9402.5
GR 988.1  9427.7   980.6  9427.8   960.3  9445.8   960.3  9525.5   960.3  9525.6
GR 960.3  9537.6   960.3  9537.7   960.3  9641.5   960.3  9641.6   960.3  9653.6
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GR 960.3  9653.7   960.3  9757.4   960.3  9757.5   960.3  9769.5   960.3  9769.6
GR 960.3  9873.4   960.3  9873.5   960.3  9885.5   960.3  9885.6   960.3  9997.8
GR 960.3  9997.9   960.3 10009.9   960.3 10010.0   960.3 10105.8   960.3 10105.9
GR 960.3 10117.9   960.3 10118.0   960.3 10221.3   960.3 10221.4   960.3 10233.4
GR 960.3 10233.5   960.3 10337.9   960.3 10338.0   960.3 10349.0   960.3 10349.1
GR 960.3 10453.5   960.3 10453.6   960.3 10465.6   960.3 10465.7   960.3 10555.9
GR 981.2 10572.3   988.7 10572.4   988.7 10597.0   987.2 10612.0   978.1 11023.0
GR 978.7 11497.0   980.6 12014.0   982.4 12466.0
HD 4.754      10 9445.8 10555.9
X1 4.790     6.0    9440   10590     357     187     277
GR 980.2  9440.0   964.0  9466.0   961.1 10000.0   964.6 10568.0   980.8 10590.0
GR 980.8 10600.0
HD 4.790      10 9440.0   10590
X1 5.150     9.0    9291   10713    1780    1960    1873
GR 986.0  9275.0   986.0  9291.0   969.9  9310.0   968.1  9678.0   967.4 10000.0
GR 968.7 10469.0   968.9 10691.0   986.0 10713.0   986.0 10720.0
HD 5.150      10    9291   10713
NC  .040    .040    .022
X1 5.290      82 9250.8 10672.4     695     865     775
GR 994.5  9250.7   986.4  9250.8   971.5  9277.5   971.5  9318.7   971.5  9318.8
GR 971.5  9323.4   971.5  9323.5   971.5  9389.9   971.5  9390.0   971.5  9394.5
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GR1051.0  8974.0  1051.4  9123.0  1048.5  9224.0  1046.8  9298.0  1062.4  9365.0
GR1062.6  9390.0  1046.1  9428.0  1054.3  9573.0  1048.6  9601.0  1044.1  9675.0
GR1042.0  9722.0  1042.5  9771.0  1041.4  9803.0  1041.3  9942.0  1041.3 10000.0
GR1041.9 10147.0  1056.6 10178.0  1056.8 10295.0  1060.3 10368.0  1060.5 10482.0
GR1061.0 10597.0
HD 11.34       10     9573    10178
NC                                0.1      0.3
X1 11.52       36     9873    10117      980      980      980
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GR1051.8  6962.0  1048.2  7089.0  1050.0  7210.0  1050.4  7345.0  1050.6  7465.0
GR1050.4  7550.0  1050.8  7652.0  1052.4  7800.0  1052.6  7916.0  1051.9  7950.0
GR1051.9  8550.0  1049.5  8600.0  1049.5  9501.0  1049.3  9665.0  1049.3  9745.0
GR1053.5  9840.0  1054.1  9873.0  1042.4  9922.0  1045.6  9964.0  1045.6 10000.0
GR1045.6 10082.0  1058.5 10117.0  1062.5 10209.0  1063.8 10315.0  1065.6 10431.0
GR1066.9 10534.0
HD 11.52       10     9873    10117
X1 11.80       46     8224    10302     1415     1415     1415
GR1067.1  5780.0  1059.5  5793.0  1056.6  5830.0  1056.5  5946.0  1059.8  5964.0
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GR1054.9  7711.0  1054.7  7825.0  1054.1  7909.0  1054.2  8003.0  1063.1  8113.0
GR1061.9  8139.0  1065.5  8163.0  1066.5  8224.0  1056.7  8280.0  1051.6  8480.0
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GR1074.2 10502.0
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X1 12.38     28.0   9379.0    10302     2885     2885     2885
GR1064.9  6240.0  1064.9  7002.0  1064.9  7519.0  1058.8  7538.0  1059.1  7761.0
GR1064.6  7806.0  1063.0  8056.0  1057.9  8112.0  1062.6  8159.0  1057.8  8303.0
GR1057.8  8562.0  1065.0  8628.0  1066.3  9110.0  1064.8  9294.0  1062.3  9338.0
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GR1068.9 10302.0  1072.6 10857.0  1078.2 11420.0
HD 12.38       10     9379    10302
X1 13.33       72   9251.1  10758.5     5075     5065     5070
GR1104.9  5540.0  1099.6  5578.0  1107.5  5891.0  1109.7  6222.0  1105.2  6522.0
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GR1071.5 10741.1  1086.4 10758.5  1093.0 10758.6  1092.8 10784.0  1090.0 10910.0
GR1090.1 11080.0  1088.0 11380.0  1090.4 11740.0  1096.7 12172.0  1097.3 12475.0
GR1099.6 12607.0  1100.0 13232.0
HD 13.33      10  9251.1 10758.5
NC  0.04    0.04    0.03
X1 13.81    30.0    7867   10525    2560    2560    2560
X3    10
GR1099.0  6280.0  1088.1  6333.0  1083.9  6543.0  1085.6  6895.0  1085.6  7105.0
GR1082.3  7145.0  1085.1  7198.0  1080.5  7254.0  1085.4  7285.0  1083.6  7601.0
GR1084.8  7867.0  1080.5  8265.0  1080.5  8365.0  1080.5  8485.0  1080.5  9315.0
GR1080.5  9435.0  1080.5  9535.0  1081.5  9580.0  1078.6  9597.0  1078.6 10000.0
GR1078.4 10183.0  1082.8 10226.0  1080.2 10454.0  1085.1 10525.0  1087.0 10634.0
GR1099.6 10738.0  1095.4 10896.0  1096.7 11458.0  1099.1 11517.0  1099.1 11575.0
HD 13.81    10.0    8265   10454
X113.855    30.0    7867   10525     240     240     240
X3    10
GR1099.5  6280.0  1088.6  6333.0  1084.4  6543.0  1086.1  6895.0  1086.1  7105.0
GR1082.8  7145.0  1085.6  7198.0  1081.0  7254.0  1085.9  7285.0  1084.1  7601.0
GR1085.3  7867.0  1081.0  8265.0  1081.0  8365.0  1041.0  8485.0  1041.0  9315.0
GR1081.0  9435.0  1081.0  9535.0  1082.0  9580.0  1079.1  9597.0  1079.1 10000.0
GR1078.9 10183.0  1083.3 10226.0  1080.7 10454.0  1085.6 10525.0  1087.5 10634.0
GR1100.1 10738.0  1095.9 10896.0  1097.2 11458.0  1099.6 11517.0  1099.6 11575.0
HD13.855    10.0    8265   10454
X1 14.38    36.0    8125   10691    2170    3125    2725
X3    10
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
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GR1085.4  9320.0  1085.4  9350.0  1085.4  9400.0  1085.4  9410.0  1089.1  9458.0
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GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38    10.0    8140   10571
X114.412    36.0    8125   10691     240     240     240
X3    10
GR1114.5  6715.0  1112.5  6750.0  1104.5  6765.0  1100.5  6790.0  1092.5  6830.0
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GR1085.9  8140.0  1085.9  8240.0  1085.9  8360.0  1085.9  9190.0  1085.9  9310.0
GR1085.9  9350.0  1085.9  9375.0  1085.9  9400.0  1085.9  9410.0  1089.6  9458.0
GR1088.5  9838.0  1084.9 10000.0  1084.9 10065.0  1092.5 10085.0  1093.1 10234.0
GR1091.0 10369.0  1087.4 10445.0  1087.8 10571.0  1097.5 10691.0  1099.2 11028.0
GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
HD14.412    10.0    8140   10571
X1 14.85    37.0    9106   10454    2050    2150    2190
GR1126.8  7870.0  1130.3  8231.0  1131.5  8555.0  1129.3  8905.0  1109.1  8978.0
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X114.932    44.0    9140   11341     425     425     425
X3    10
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GR1095.5 10430.0  1095.0 10475.0  1095.0 10575.0  1095.0 10665.0  1095.0 11020.0
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GR1108.1 14521.0  1110.6 14669.0  1109.0 14693.0  1114.4 14821.0
HD14.932    10.0    9207   10475
X1 14.94    44.0    9140   11341      45      45      45
X3    10
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X3    10
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X115.303      41    9681   11192    1175    1175    1175
X3    10
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GR1112.3 13701.0  1111.8 14045.0  1114.8 14555.0  1113.6 14647.0  1116.5 15208.0
GR1120.1 15704.0
HD15.303    10.0    9832   10540
X1 15.32      41    9681   11192      90      90      90
X3    10
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GR1130.3  9681.0  1097.2  9832.0  1096.7  9930.0  1093.5 10000.0  1101.5 10078.0
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GR1110.7 13486.0  1114.4 13529.0  1114.6 13551.0  1111.0 13578.0  1111.0 13644.0
GR1112.5 13701.0  1112.0 14045.0  1115.0 14555.0  1113.8 14647.0  1116.7 15208.0
GR1120.3 15704.0
HD 15.32    10.0    9832   10540
NC   .04     .04     .03      .1      .3
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X3    10
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GR1124.4 15898.0
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X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
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GR1106.0 10456.0  1106.0 10684.0  1160.3 10836.0  1163.1 10929.0
HD 15.98      10    9825   10836
NC                     .3      .5
X1 16.42      28  9776.8 10225.4    2185    2225    2215
X3    10
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HD 16.42      10  9776.8 10225.4
X116.446      64  9768.4 10241.0      95      95      95
X3    10
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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      64  9768.4 10241.0      20      20      20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1132.0  9768.4  1110.0  9768.5  1110.0  9787.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
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GR1110.0 10080.4  1110.0 10080.5  1110.0 10092.5  1118.0 10092.6  1118.0 10100.9
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GR1118.0 10119.4  1118.0 10119.5  1118.0 10132.3  1118.0 10132.4  1118.0 10134.9
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GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
GR1118.0 10178.0  1118.0 10180.7  1118.0 10180.8  1118.0 10193.9  1118.0 10194.0
GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD 16.45      10  9768.4 10241.0
NC          .040           0.1     0.3
X1 16.91    22.0     9758   10178    2515    2200    2440
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1144.8  9758.0  1115.6  9804.0
GR1114.6 10000.0  1124.6 10178.0  1127.2 10550.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10     9758   10178
NC  .045     .04
X1 17.38    30.0     9233    10670    2930    2140    2455
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1123.5  9271.0  1123.8  9463.0
GR1127.5  9845.0  1122.5  9863.0  1121.7 10000.0  1124.9 10068.0  1124.9 10289.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10     9233    10670
X1 17.76    33.0     8819    10431    2140    1900    1980
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1128.0  9307.0
GR1132.0  9337.0  1128.0  9539.0  1128.0  9703.0  1128.0  9724.0  1128.0  9779.0
GR1128.8  9833.0  1128.0 10000.0  1128.0 10109.0  1131.2 10214.0  1131.5 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10     8819    10431
X1 18.24    28.0     8972    10927    2335    2690    2525
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1140.1  9799.0  1141.4  9937.0  1135.7 10000.0  1135.7 10046.0
GR1139.2 10063.0  1138.6 10302.0  1136.3 10346.0  1138.7 10430.0  1139.9 10626.0
GR1139.1 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10     8972    10927
X1 18.92      52  9447.5 10577.0    3620    3800    3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1149.2  9565.7
GR1149.2  9565.8  1149.2  9573.3  1149.2  9573.4  1149.2  9691.8  1149.2  9691.9
GR1149.2  9699.4  1149.2  9699.5  1149.2  9817.8  1149.2  9817.9  1149.2  9825.4
GR1149.2  9825.5  1149.2  9943.9  1149.2  9944.0  1149.2  9951.5  1149.2  9951.6
GR1149.2 10070.2  1149.2 10070.3  1149.2 10077.8  1149.2 10077.9  1149.2 10196.0
GR1149.2 10196.1  1149.2 10203.6  1149.2 10203.7  1149.2 10322.0  1149.2 10322.1
GR1149.2 10329.6  1149.2 10329.7  1149.2 10447.4  1149.2 10447.5  1149.2 10455.0
GR1149.2 10455.1  1149.2 10563.5  1163.9 10576.9  1172.0 10577.0  1171.9 10590.0
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GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    7491   10174    2805    2795    2800
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1162.5  9141.0
GR1164.5  9298.0  1163.9  9574.0  1160.9  9628.0  1163.0  9684.0  1163.3  9781.0
GR1158.4  9881.0  1159.4 10000.0  1159.4 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    7491   10174
X1 19.89    33.0    8142   10997    2375    2375    2375
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0  8141.9   10997     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1172.0  9500.0  1172.0  9626.0  1168.8  9844.0
GR1164.2  9930.0  1165.6 10000.0  1169.4 10067.0  1169.4 10231.0  1167.8 10267.0
GR1168.0 10344.0  1172.2 10381.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    8142   10886
X119.953    33.0  8141.9   10997      45      45      45
X3    10
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GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
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GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
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GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
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GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42    49.0  9359.0 10853.0    2190    2140    2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X121.500    40.0    8950   13033   450.0   470.0   460.0
X3    10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500    10.0    9068   12976
X121.523    40.0    8950   13033   120.0   120.0   120.0
X3    10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523    10.0    9068   12976
X121.657    40.0    8453   13966   710.0   710.0   710.0
X3    10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680    35.0    8453   13966   120.0   120.0   120.0
X3    10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
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GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
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X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
GR1220.9 10000.0  1220.9 11265.0  1220.9 11315.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
X3    10
GR1263.0  9454.0  1261.1  9495.0  1226.7  9564.0  1221.1  9590.0  1221.1  9790.0
GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
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GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
GR1221.3 11694.0  1222.6 11718.0  1223.6 11842.0  1221.4 11990.0  1221.4 12330.0
GR1219.1 12354.0  1218.5 12523.0  1220.2 12540.0  1220.2 12590.0  1222.6 12612.0
GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
GR1222.0 11532.0  1225.5 11576.0  1223.9 11706.0  1221.8 11727.0  1223.0 11843.0
GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
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GR1186.4 10730.0  1226.4 10850.0  1226.4 10860.0  1226.4 10870.0  1226.4 10880.0
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GR1228.3 11399.0  1227.0 11508.0  1228.1 11578.0  1225.4 11591.0  1225.6 11676.0
GR1227.0 11709.0  1224.6 11893.0  1228.3 11971.0  1228.3 12173.0  1227.3 12336.0
GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
GR1188.9  9390.0  1188.9 10410.0  1228.9 10530.0  1228.9 10580.0  1231.1 10672.0
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GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
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GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
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GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10     8081    12009
NC 0.039   0.035    0.030
X124.070    38.0     7412    11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
GR1236.2  8719.0  1232.9  9065.0  1232.9  9195.0  1232.9  9275.0  1232.9  9500.0
GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
GR1258.1 11503.0  1255.3 11711.0  1259.1 11799.0  1259.1 11910.0  1264.0 12010.0
GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10     7448    11244
X124.085    38.0     7412    11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10     7448    11244
X1 24.17    22.0     7030    11239   280.0   280.0   280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10     7139    11193
X124.193    22.0     7030    11239   120.0   120.0   120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10     7139    11193
NC 0.040   0.034    0.030
X1 24.35    32.0     7383    11392     945     945     945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
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GR1237.1  9605.0  1237.1  9685.0  1237.1  9893.0  1237.1 10000.0  1237.1 10174.0
GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10     7450    11345
X124.365    32.0     7383    11392      80      80      80
X3    10
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GR1237.3  9600.0  1197.3  9680.0  1197.3  9893.0  1197.3 10000.0  1197.3 10174.0
GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
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GR1273.3 12061.0  1269.4 12083.0
HD24.365     10     7450   11345
X124.468   33.0     7430   11477   545.0   545.0   545.0
X3    10
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GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468     10     7784   11422
X124.491   33.0     7430   11477   120.0   120.0   120.0
X3    10
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NC 0.030  0.030  0.030
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NC 0.040  0.040  0.030
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GR1293.1 13301.0
HD 25.37      10     9459   11916
X1 25.59      14     9685   11070     1065     1230     1125
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HD 25.59      10     9685   11070
NC  .040    .040     .030
X1 25.86      25     8220   10215     1425     1495     1455
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NC  .041    .041     .033
X1 26.29      26.0   8722   11227     2090     2295     2240
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HD 26.29      10     8722   11227
X1 26.73      30.0   9720   11263     2320     2310     2330
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HD 26.73      10     9720   11263
NC  .048    .043     .035
X1 27.03      23.0   9679   10553     1660     1020     1590
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NC  .040    .040     .035
X1 27.68      35.0   8224   10125     4120     3200     3430
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HD 27.68      10     8224   10125
X1 28.12      27.0   9108   10107     2360     2375     2355
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HD 28.12      10     9108    10107
X1 28.67    36.0     9950    11203     2785     2925     2885
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NC  .042    .042     .035
X1 29.04    33.0     9808    10638     2100     1270     1975
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HD 29.04      10     9808    10638
X1 29.54    29.0     9198    10150     2750     2235     2640
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HD 29.54      10     9198    10150
X129.611    31.0     9052    10244      315      315      375
X3    10
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HD29.611      10     9052    10244
X1 29.80    16.0     9347    10610     1295     1340     1400
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HD 29.80      10     9347    10610
X1 30.07    17.0     9604    10306     1425     1440     1420
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HD 30.26      10    9711   10643
NC 0.043   0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
GR1352.0 10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
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HD 30.82      10    9865   11244
NC 0.043   0.043   0.037
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X1 31.86    10.0    9490   10321    2550    2485    2505
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NC 0.043   0.052   0.040
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GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10    9719   10564
NC  .047   .055    .032
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GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10    9750   10150
X132.998     9.0    9762   10164      72      72      72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10    9762   10164
NC  .060   .050    .050
X1 33.41    12.0    9750   10687    1880    2270    2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
```

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HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                       RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                          PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                                UPDATED ON:  MAY 15, 1992
T8      ********************************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01   4000.  20000.  40000.  60000.  85000.
LT      QS    0.01   3082.  26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N   0.160         0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N   0.440         0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   0.730         0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   1.330         0.20997 0.04955 0.95000         0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N   1.710         0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N   2.020         0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N   2.600         0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N   2.800         0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N   3.270         0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N   3.400         0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N   3.430         0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N   3.729         0.62991 0.41994 0.95000         0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N   3.734         0.62991 0.41994 0.95000         0.00000 0.00000 0.00000 0.00000
N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N   3.757         0.62991 0.41994 0.95000         0.00000 0.00000 0.00000 0.00000
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N   4.094           0.20997 0.12303 0.95000         0.00327 0.05913 0.08985 0.23156
N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N   4.270           0.20997 0.13909 0.95000         0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
N   4.700           0.20997 0.12303 0.95000         0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N   4.754           0.20997 0.12303 0.95000         0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N   4.790           0.20997 0.12303 0.95000         0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N   5.150           0.20997 0.05963 0.95000         0.00650 0.08050 0.32636 0.20159
N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
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N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
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N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
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N         0.12482 0.03636 0.03411 0.05742 0.02210 0.00000
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N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000          0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000          0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000          0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000          0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000          0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000          0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000          0.00510 0.00977 0.02614 0.06339
N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.260          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000          0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
```

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N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061         0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B            2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q 14750.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q 14750.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 29500.   2500.
X             0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 29500.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 44250.   3750.
X             0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 44250.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 59000.   5000.
X             0.1     0.4
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*        TIME DURATION 8 - HYDROGRAPH 1
Q 59000.    5000.
W 0.0625
*        TIME DURATION 9 - HYDROGRAPH 1
Q 44250.    3750.
X             0.1     0.9
*        TIME DURATION 10 - HYDROGRAPH 1
Q 44250.    3750.
W  0.025
*        TIME DURATION 11 - HYDROGRAPH 1
Q 29500.    2500.
X             0.1     1.3
*        TIME DURATION 12 - HYDROGRAPH 1
Q 29500.    2500.
W   0.09
*        TIME DURATION 13 - HYDROGRAPH 1
Q 14750.    1250.
X             0.1     1.8
*    B   TIME DURATION 14 - HYDROGRAPH 1
Q 14750.    1250.
W   0.05
$$END
```

# APPENDIX I.2.4 - MODEL II (500-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070    0.040    0.044      .1       .3
X1 0.160     47.0     8000   12725      470      460      465
GR 924.4   4925.0    924.2  5199.0    921.8  5600.0    919.5  5760.0    919.4  5959.0
GR 920.9   6245.0    920.8  6516.0    919.3  6554.0    919.8  6850.0    919.6  7271.0
GR 920.5   7535.0    917.6  8136.0    917.4  8339.0    912.3  8356.0    917.2  8376.0
GR 916.4   8991.0    914.0  9212.0    911.6  9231.0    913.2  9494.0    911.8  9720.0
GR 910.7  10000.0    909.6 10136.0    921.6 10167.0    923.0 10184.0    913.7 10213.0
GR 913.7  10477.0    917.1 10590.0    916.6 10873.0    910.5 10909.0    910.5 11042.0
GR 915.2  11068.0    912.1 11265.0    911.5 11516.0    908.3 11664.0    910.4 11830.0
GR 916.1  11911.0    914.1 12098.0    914.9 12628.0    922.1 12652.0    922.7 12725.0
GR 916.5  12758.0    916.8 13671.0    916.2 14363.0    917.2 14971.0    917.8 15391.0
GR 913.5  15403.0    920.3 15459.0
HD 0.160       10     8000   12725
NC 0.033    0.040    0.039
X1 0.440     40.0     8029   10420     1510     1465     1485
GR 927.5   3107.0    925.0  4575.0    922.8  5984.0    921.8  6974.0    920.3  7816.0
GR 923.1   7847.0    923.3  7915.0    919.1  7942.0    919.1  7995.0    923.7  8029.0
GR 919.5   8152.0    916.2  8640.0    915.1  8999.0    916.8  9023.0    916.7  9798.0
GR 913.9   9815.0    913.5  9842.0    912.8 10000.0    917.6 10016.0    916.2 10201.0
GR 917.0  10263.0    917.7 10313.0    917.7 10385.0    925.2 10420.0    917.7 10455.0
GR 917.8  11076.0    920.3 11103.0    916.9 11133.0    916.4 11365.0    919.1 11391.0
GR 918.7  12229.0    918.8 12650.0    920.6 12691.0    919.8 12785.0    919.6 13644.0
GR 920.4  14355.0    921.0 16110.0    921.8 16630.0    922.9 17240.0    924.0 17640.0
HD 0.440       10     8029   10420
NC 0.034    0.040    0.042
X1 0.730     36.0     8340   12394     1565     1475     1510
GR 926.5   3285.0    926.3  3986.0    925.6  4737.0    925.2  5415.0    925.6  5760.0
GR 925.6   5797.0    925.7  5889.0    925.7  5945.0    924.5  6306.0    924.5  7206.0
GR 924.3   8340.0    921.6  8530.0    921.1  8982.0    919.1  8999.0    918.6  9126.0
GR 921.0   9195.0    920.0  9917.0    917.8  9927.0    917.9 10000.0    916.9 10087.0
GR 928.8  10162.0    919.2 10205.0    917.0 10479.0    919.8 10521.0    918.9 10591.0
GR 928.7  10655.0    919.2 10697.0    919.2 10771.0    922.2 10794.0    921.6 11725.0
GR 922.6  11783.0    924.5 12394.0    924.5 13563.0    924.0 14000.0    924.3 15050.0
GR 926.0    15560
HD 0.730       10     8340   12394
NC 0.040    0.042    0.043
X1 1.330     29.0     8038   10456     3405     3325     3385
GR 934.6   6000.0    933.3  6025.0    932.9  6490.0    931.0  6748.0    931.3  7154.0
GR 931.8   7239.0    933.2  7837.0    934.0  8038.0    931.1  8083.0    929.8  8339.0
GR 931.4   8777.0    929.3  8916.0    931.1  8945.0    929.8  9282.0    929.1  9911.0
GR 927.0  10000.0    925.9 10122.0    925.5 10364.0    932.0 10456.0    925.5 10490.0
GR 931.1  10701.0    931.6 11006.0    930.4 11242.0    934.9 11261.0    931.9 11306.0
GR 933.2  11377.0    934.8 11409.0    936.3 12061.0    941.3 12490.0
HD 1.330       10     8038   10456
NC 0.041    0.040    0.035
X1 1.710       44     9091 10284.4     2000     2585     2480
GR 940.9   5684.9    943.3  5808.0    945.3  6004.6    945.1  6078.9    947.4  6100.1
GR 947.4   6117.9    939.1  6148.7    948.7  6187.8    948.6  6226.4    934.0  6296.9
GR 936.8   6795.4    942.6  6807.8    942.6  6816.3    935.2  6833.2    933.6  7016.1
GR 935.7   7029.0    935.7  7052.6    932.4  7065.5    932.0  7135.0    934.3  7164.7
GR 934.3   7198.3    931.9  7209.5    934.6  7333.9    933.3  7541.5    933.4  7601.4
GR 936.1   7704.9    936.0  8010.3    935.3  8305.9    935.8  8591.1    935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890     2065     1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6     2700     2945     3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222     1250      655     1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5     2800     1995     2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5      760      635      685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4      165      160      165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603     1575     1585     1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0        0        0
X1 3.734    63.0  9400.9 10599.3       25       25       25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734      0        0      0
X1 3.757    7.0     9425  10555      120      120      120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757      0        0      0
X1 3.767     92  9428.1 10572.0       50       50       50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767      0        0      0
NC   .04   .045     .025
X1 4.094    7.0     9440  10578     1770     1760     1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094     10     9440  10578
X1 4.270   15.0     9449  10588      925      925      925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270     10     9449  10588
X1 4.700    9.0     9451  10579     2320     2180     2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
GR 961.1 10353.0   962.8 10562.0   978.8 10579.0   978.9 10595.0
HD 4.700     10     9451  10588
X1 4.754   53.0  9402.5 10572.4      150      310      225
X3    10
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NC  .040    .040     .022
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GR1045.7 12561.0  1047.4 12619.0  1044.3 12722.0  1044.5 12768.0  1045.5 12788.0
GR1045.5 12855.0
HD 10.72      10     9360    10386
NC  .045    .045     .059      .1       .3
X1 11.01      53     8515    10287     1610     1320     1430
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GR1046.1  6822.0  1048.1  6893.0  1048.6  7019.0  1049.3  7141.0  1048.6  7259.0
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GR1046.8  7991.0  1046.1  8135.0  1045.4  8248.0  1045.2  8375.0  1048.4  8429.0
GR1047.4  8461.0  1050.3  8515.0  1045.5  8604.0  1039.5  8661.0  1043.2  8720.0
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NC 0.045    0.055    0.035      0.4      0.6
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GR1042.0  9722.0  1042.5  9771.0  1041.4  9803.0  1041.3  9942.0  1041.3 10000.0
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HD 11.34       10     9573    10178
NC                               0.1      0.3
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GR1050.4  7550.0  1050.8  7652.0  1052.4  7800.0  1052.6  7916.0  1051.9  7950.0
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GR1066.9 10534.0
HD 11.52       10     9873    10117
X1 11.80       46     8224    10302     1415     1415     1415
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HD 11.80       10     8224    10302
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HD 12.38       10     9379    10302
X1 13.33       72   9251.1  10758.5     5075     5065     5070
GR1104.9  5540.0  1099.6  5578.0  1107.5  5891.0  1109.7  6222.0  1105.2  6522.0
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HD 13.33      10  9251.1 10758.5
NC  0.04    0.04    0.03
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X3    10
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GR1099.6 10738.0  1095.4 10896.0  1096.7 11458.0  1099.1 11517.0  1099.1 11575.0
HD 13.81    10.0    8265   10454
X113.855    30.0    7867   10525     240     240     240
X3    10
GR1099.5  6280.0  1088.6  6333.0  1084.4  6543.0  1086.1  6895.0  1086.1  7105.0
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GR1100.1 10738.0  1095.9 10896.0  1097.2 11458.0  1099.6 11517.0  1099.6 11575.0
HD13.855    10.0    8265   10454
X1 14.38    36.0    8125   10691    2170    3125    2725
X3    10
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GR1085.4  8140.0  1085.4  8240.0  1045.4  8360.0  1045.4  9190.0  1085.4  9310.0
GR1085.4  9320.0  1085.4  9350.0  1085.4  9400.0  1085.4  9410.0  1089.1  9458.0
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GR1107.2 13055.0
HD 14.38    10.0    8140   10571
X114.412    36.0    8125   10691     240     240     240
X3    10
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GR1088.5  9838.0  1084.9 10000.0  1084.9 10065.0  1092.5 10085.0  1093.1 10234.0
GR1091.0 10369.0  1087.4 10445.0  1087.8 10571.0  1097.5 10691.0  1099.2 11028.0
GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
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X1 14.85    37.0    9106   10454    2050    2150    2190
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X1 14.94    44.0    9140   11341      45      45      45
X3    10
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X3    10
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X1 15.32      41    9681   11192      90      90      90
X3    10
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GR1112.5 13701.0  1112.0 14045.0  1115.0 14555.0  1113.8 14647.0  1116.7 15208.0
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X3    10
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X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
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NC                     .3      .5
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GR1108.7 10046.0  1108.7 10046.1  1108.7 10051.9  1108.7 10052.0  1108.7 10052.1
GR1108.7 10138.1  1108.7 10138.2  1108.7 10144.2  1108.7 10144.3  1108.7 10203.8
GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42      10  9776.8 10225.4
X116.446      64  9768.4 10241.0      95      95      95
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1132.0  9768.4  1110.0  9768.5  1110.0  9787.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10080.4  1110.0 10080.5  1110.0 10092.5  1118.0 10092.6  1118.0 10100.9
GR1118.0 10101.0  1118.0 10103.7  1118.0 10104.1  1118.0 10116.9  1118.0 10117.0
GR1118.0 10119.4  1118.0 10119.5  1118.0 10132.3  1118.0 10132.4  1118.0 10134.9
GR1118.0 10135.0  1118.0 10147.4  1118.0 10147.5  1118.0 10149.9  1118.0 10150.0
GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
GR1118.0 10178.0  1118.0 10180.7  1118.0 10180.8  1118.0 10193.9  1118.0 10194.0
GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      64  9768.4 10241.0      20      20      20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1132.0  9768.4  1110.0  9768.5  1110.0  9787.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
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GR1118.0 10119.4  1118.0 10119.5  1118.0 10132.3  1118.0 10132.4  1118.0 10134.9
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GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
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GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD 16.45      10  9768.4 10241.0
NC          .040             0.1       0.3
X1 16.91    22.0     9758    10178    2515     2200     2440
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1144.8  9758.0  1115.6  9804.0
GR1114.6 10000.0  1124.6 10178.0  1127.2 10550.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10     9758    10178
NC  .045     .04
X1 17.38    30.0     9233    10670    2930     2140     2455
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1123.5  9271.0  1123.8  9463.0
GR1127.5  9845.0  1122.5  9863.0  1121.7 10000.0  1124.9 10068.0  1124.9 10289.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10     9233    10670
X1 17.76    33.0     8819    10431    2140     1900     1980
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1128.0  9307.0
GR1132.0  9337.0  1128.0  9539.0  1128.0  9703.0  1128.0  9724.0  1128.0  9779.0
GR1128.8  9833.0  1128.0 10000.0  1128.0 10109.0  1131.2 10214.0  1131.5 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10     8819    10431
X1 18.24    28.0     8972    10927    2335     2690     2525
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1140.1  9799.0  1141.4  9937.0  1135.7 10000.0  1135.7 10046.0
GR1139.2 10063.0  1138.6 10302.0  1136.3 10346.0  1138.7 10430.0  1139.9 10626.0
GR1139.1 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10     8972    10927
X1 18.92      52  9447.5 10577.0    3620     3800     3595
X3    10
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GR1149.2  9565.8  1149.2  9573.3  1149.2  9573.4  1149.2  9691.8  1149.2  9691.9
GR1149.2  9699.4  1149.2  9699.5  1149.2  9817.8  1149.2  9817.9  1149.2  9825.4
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GR1149.2 10455.1  1149.2 10563.5  1163.9 10576.9  1172.0 10577.0  1171.9 10590.0
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GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9447.5 10577.0
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    7491   10174    2805    2795    2800
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1162.5  9141.0
GR1164.5  9298.0  1163.9  9574.0  1160.9  9628.0  1163.0  9684.0  1163.3  9781.0
GR1158.4  9881.0  1159.4 10000.0  1159.4 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    7491   10174
X1 19.89    33.0    8142   10997    2375    2375    2375
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0  8141.9   10997     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
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GR1164.2  9930.0  1165.6 10000.0  1169.4 10067.0  1169.4 10231.0  1167.8 10267.0
GR1168.0 10344.0  1172.2 10381.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    8142   10886
X119.953    33.0  8141.9   10997      45      45      45
X3    10
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GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
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GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
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GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42    49.0  9359.0 10853.0    2190    2140    2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X121.500    40.0    8950   13033   450.0   470.0   460.0
X3    10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500    10.0    9068   12976
X121.523    40.0    8950   13033   120.0   120.0   120.0
X3    10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523    10.0    9068   12976
X121.657    40.0    8453   13966   710.0   710.0   710.0
X3    10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680    35.0    8453   13966   120.0   120.0   120.0
X3    10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
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GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
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GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
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GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
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X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
GR1220.9 10000.0  1220.9 11265.0  1220.9 11315.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
X3    10
GR1263.0  9454.0  1261.1  9495.0  1226.7  9564.0  1221.1  9590.0  1221.1  9790.0
GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
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GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
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GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
GR1222.0 11532.0  1225.5 11576.0  1223.9 11706.0  1221.8 11727.0  1223.0 11843.0
GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
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GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
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GR1186.4 10730.0  1226.4 10850.0  1226.4 10860.0  1226.4 10870.0  1226.4 10880.0
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GR1227.0 11709.0  1224.6 11893.0  1228.3 11971.0  1228.3 12173.0  1227.3 12336.0
GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
GR1188.9  9390.0  1188.9 10410.0  1228.9 10530.0  1228.9 10580.0  1231.1 10672.0
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GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
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GR1229.3  9829.0  1229.3 10000.0  1229.3 10139.0  1229.3 10535.0  1231.7 10672.0
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GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
GR1235.1 12009.0  1252.2 12101.0  1249.8 12152.0  1251.4 12229.0  1248.8 12295.0
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HD23.874      10     8081    12009
NC 0.039   0.035    0.030
X124.070    38.0     7412    11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
GR1236.2  8719.0  1232.9  9065.0  1232.9  9195.0  1232.9  9275.0  1232.9  9500.0
GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
GR1258.1 11503.0  1255.3 11711.0  1259.1 11799.0  1259.1 11910.0  1264.0 12010.0
GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10     7448    11244
X124.085    38.0     7412    11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10     7448    11244
X1 24.17    22.0     7030    11239   280.0   280.0   280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10     7139    11193
X124.193    22.0     7030    11239   120.0   120.0   120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10     7139    11193
NC 0.040   0.034    0.030
X1 24.35    32.0     7383    11392     945     945     945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
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GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10     7450    11345
X124.365    32.0     7383    11392      80      80      80
X3    10
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GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
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HD24.365     10     7450   11345
X124.468   33.0     7430   11477   545.0   545.0   545.0
X3    10
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GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468     10     7784   11422
X124.491   33.0     7430   11477   120.0   120.0   120.0
X3    10
GR1289.6  6781.0  1285.4  6824.0  1259.9  6899.0  1260.5  7000.0  1258.8  7099.0
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HD24.491     10     7784   11422
X1 24.54   36.0  9240.0 10227.0     135     395     235
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
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GR1278.6 12013.0
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NC 0.030  0.030  0.030
X1 24.90   43.0  9334.0 11529.0    2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
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NC 0.040  0.040  0.030
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GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
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GR1293.1 13301.0
HD 25.37      10     9459   11916
X1 25.59      14     9685   11070     1065     1230     1125
GR1300.0  9640.0  1280.0  9685.0  1264.0  9725.0  1260.0  9790.0  1260.0  9840.0
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HD 25.59      10     9685   11070
NC  .040    .040    .030
X1 25.86      25     8220   10215     1425     1495     1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
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GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
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GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
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NC  .041    .041    .033
X1 26.29      26.0   8722   11227     2090     2295     2240
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HD 26.29      10     8722   11227
X1 26.73      30.0   9720   11263     2320     2310     2330
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GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10     9720   11263
NC  .048    .043    .035
X1 27.03      23.0   9679   10553     1660     1020     1590
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HD 27.03      10     9679   10553
NC  .040    .040    .035
X1 27.68      35.0   8224   10125     4120     3200     3430
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HD 27.68      10     8224   10125
X1 28.12      27.0   9108   10107     2360     2375     2355
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GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67    36.0    9950   11203    2785    2925    2885
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GR1319.8 10514.0  1316.1 10819.0  1318.6 10989.0  1315.2 11044.0  1320.5 11203.0
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HD 28.67      10    9950   11203
NC  .042    .042    .035
X1 29.04    33.0    9808   10638    2100    1270    1975
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GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
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HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
GR1377.8  8825.0  1353.2  9052.0  1337.2  9136.0  1336.3  9285.0  1332.4  9541.0
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GR1349.1 10688.0  1349.9 10923.0  1353.4 10966.0  1353.4 11037.0  1345.1 11072.0
GR1345.1 11124.0  1352.5 11156.0  1352.5 11163.0  1345.4 11178.0  1345.5 11204.0
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GR1378.5 11635.0
HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
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HD 29.80      10    9347   10610
X1 30.07    17.0    9604   10306    1425    1440    1420
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GR1340.8  9781.0  1340.4  9910.0  1344.6  9925.0  1334.4  9986.0  1334.4 10000.0
GR1335.0 10060.0  1344.5 10098.0  1343.6 10114.0  1336.6 10132.0  1334.0 10261.0
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HD 30.07      10     9604    10306
X1 30.26    12.0     9711    10643      870     1090     1005
GR1357.2  9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10     9711    10643
NC 0.043   0.043    0.045
X1 30.82    12.0     9865    11244     2955     2840     2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
GR1352.0 10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
GR1354.5 11132.0  1399.1 11244.0
HD 30.82      10     9865    11244
NC 0.043   0.043    0.037
X1 31.39    17.0     9470    10633     2900     3165     2970
GR1397.8  9290.0  1386.7  9342.0  1392.7  9386.0  1393.4  9470.0  1356.5  9526.0
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GR1356.9 10000.0  1357.4 10080.0  1361.5 10242.0  1360.1 10387.0  1368.0 10456.0
GR1368.6 10528.0  1407.9 10633.0
HD 31.39      10     9470    10633
X1 31.86    10.0     9490    10321     2550     2485     2505
GR1411.1  8955.0  1408.4  9155.0  1407.3  9490.0  1362.0  9604.0  1364.9  9727.0
GR1366.7  9894.0  1366.7 10000.0  1365.3 10261.0  1394.3 10321.0  1420.6 10419.0
HD 31.86      10     9490    10321
NC 0.043   0.052    0.040
X1 32.43    14.0     9438    10437     2885     2970     2980
GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
GR1372.6  9692.0  1375.5  9852.0  1373.4  9965.0  1370.7 10000.0  1372.7 10073.0
GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10     9438    10437
NC  .049   .049    .042
X1 32.86    12.0     9719    10564     2405     2135     2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10     9719    10564
NC  .047   .055    .032
X132.984      33     9750    10150      648      648      648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
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GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10     9750    10150
X132.998     9.0     9762    10164       72       72       72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10     9762    10164
NC  .060   .050    .050
X1 33.41    12.0     9750    10687     1880     2270     2170
GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
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HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                       RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                          PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                                UPDATED ON:  MAY 15, 1992
T8      **************************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01    4000.   20000.  40000.  60000.  85000.
LT      QS    0.01    3082.   26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N  0.160           0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N        0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N  0.440           0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
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N  0.730           0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N        0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N  1.330           0.20997 0.04955 0.95000         0.00445 0.04807 0.21089 0.19967
N        0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N  1.710           0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N        0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
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N        0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  2.800           0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
N        0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N  3.270           0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
N        0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.400           0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
N        0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N  3.430           0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
N        0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
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N        0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.734           0.62991 0.41994 0.95000         0.00000 0.00000 0.00000 0.00000
N        0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
N  3.757           0.62991 0.41994 0.95000         0.00000 0.00000 0.00000 0.00000
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N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N   4.270           0.20997 0.13909 0.95000           0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
N   4.754           0.20997 0.12303 0.95000           0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N 23.694          0.20997 0.16437 0.95000         0.00102 0.01100 0.18103 0.17308
N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 23.851          0.20997 0.16437 0.95000         0.00102 0.01100 0.18103 0.17308
N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 23.874          0.20997 0.16437 0.95000         0.00102 0.01100 0.18103 0.17308
N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
```

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N 24.070          0.20997 0.16437 0.95000          0.00102 0.01100 0.18103 0.17308
N          0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N 24.085          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.170          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.193          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.350          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.365          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.468          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.491          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.540          0.20997 0.06172 0.95000          0.00944 0.00060 0.17255 0.15874
N          0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.900          0.20997 0.11878 0.95000          0.00923 0.04467 0.21324 0.14742
N          0.17234 0.05644 0.06754 0.10079 0.11634 0.06850
N 25.370          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N          0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.590          0.20997 0.12678 0.95000          0.00149 0.00980 0.08434 0.12091
N          0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.860          0.20997 0.10795 0.95000          0.00538 0.03093 0.08500 0.21779
N          0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000          0.00224 0.04115 0.11411 0.20318
N          0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000          0.00054 0.00193 0.08266 0.13204
N          0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000          0.00316 0.01357 0.06346 0.12297
N          0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000          0.00292 0.02270 0.13383 0.11664
N          0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000          0.00648 0.01875 0.05408 0.06661
N          0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000          0.02020 0.07270 0.16705 0.19299
N          0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000          0.00510 0.00977 0.02614 0.06339
N          0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N          0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N          0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N          0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N          0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.260          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N          0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000          0.00421 0.00920 0.03670 0.07932
N          0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N          0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
```

```
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061         0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000         0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B            2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q 22500.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q 22500.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 45000.   2500.
X             0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 45000.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 67500.   3750.
X             0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 67500.   3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 90000.   5000.
X             0.1     0.4
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*       TIME DURATION 8 - HYDROGRAPH 1
Q 90000.    5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 67500.    3750.
X             0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 67500.    3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 45000.    2500.
X             0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 45000.    2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q 22500.    1250.
X             0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q 22500.    1250.
W   0.05
$$END
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# APPENDIX I.3 - MODEL III

# APPENDIX I.3.1 - MODEL III (50-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070    0.040    0.044       .1       .3
X1 0.160     47.0     8000    12725      470      460      465
GR 924.4   4925.0   924.2   5199.0   921.8   5600.0   919.5   5760.0   919.4   5959.0
GR 920.9   6245.0   920.8   6516.0   919.3   6554.0   919.8   6850.0   919.6   7271.0
GR 920.5   7535.0   917.6   8136.0   917.4   8339.0   912.3   8356.0   917.2   8376.0
GR 916.4   8991.0   914.0   9212.0   911.6   9231.0   913.2   9494.0   911.8   9720.0
GR 910.7  10000.0   909.6  10136.0   921.6  10167.0   923.0  10184.0   913.7  10213.0
GR 913.7  10477.0   917.1  10590.0   916.6  10873.0   910.5  10909.0   910.5  11042.0
GR 915.2  11068.0   912.1  11265.0   911.5  11516.0   908.3  11664.0   910.4  11830.0
GR 916.1  11911.0   914.1  12098.0   914.9  12628.0   922.1  12652.0   922.7  12725.0
GR 916.5  12758.0   916.8  13671.0   916.2  14363.0   917.2  14971.0   917.8  15391.0
GR 913.5  15403.0   920.3  15459.0
HD 0.160       10     8000    12725
NC 0.033    0.040    0.039
X1 0.440     40.0     8029    10420     1510     1465     1485
GR 927.5   3107.0   925.0   4575.0   922.8   5984.0   921.8   6974.0   920.3   7816.0
GR 923.1   7847.0   923.3   7915.0   919.1   7942.0   919.1   7995.0   923.7   8029.0
GR 919.5   8152.0   916.2   8640.0   915.1   8999.0   916.8   9023.0   916.7   9798.0
GR 913.9   9815.0   913.5   9842.0   912.8  10000.0   917.6  10016.0   916.2  10201.0
GR 917.0  10263.0   917.7  10313.0   917.7  10385.0   925.2  10420.0   917.7  10455.0
GR 917.8  11076.0   920.3  11103.0   916.9  11133.0   916.4  11365.0   919.1  11391.0
GR 918.7  12229.0   918.8  12650.0   920.6  12691.0   919.8  12785.0   919.6  13644.0
GR 920.4  14355.0   921.0  16110.0   921.8  16630.0   922.9  17240.0   924.0  17640.0
HD 0.440       10     8029    10420
NC 0.034    0.040    0.042
X1 0.730     36.0     8340    12394     1565     1475     1510
GR 926.5   3285.0   926.3   3986.0   925.6   4737.0   925.2   5415.0   925.6   5760.0
GR 925.6   5797.0   925.7   5889.0   925.7   5945.0   924.5   6306.0   924.5   7206.0
GR 924.3   8340.0   921.6   8530.0   921.1   8982.0   919.1   8999.0   918.6   9126.0
GR 921.0   9195.0   920.0   9917.0   917.8   9927.0   917.9  10000.0   916.9  10087.0
GR 928.8  10162.0   919.2  10205.0   917.0  10479.0   919.8  10521.0   918.9  10591.0
GR 928.7  10655.0   919.2  10697.0   919.2  10771.0   922.2  10794.0   921.6  11725.0
GR 922.6  11783.0   924.5  12394.0   924.5  13563.0   924.0  14000.0   924.3  15050.0
GR 926.0  15560
HD 0.730       10     8340    12394
NC 0.040    0.042    0.043
X1 1.330     29.0     8038    10456     3405     3325     3385
GR 934.6   6000.0   933.3   6025.0   932.9   6490.0   931.0   6748.0   931.3   7154.0
GR 931.8   7239.0   933.2   7837.0   934.0   8038.0   931.1   8083.0   929.8   8339.0
GR 931.4   8777.0   929.3   8916.0   931.1   8945.0   929.8   9282.0   929.1   9911.0
GR 927.0  10000.0   925.9  10122.0   925.5  10364.0   932.0  10456.0   925.5  10490.0
GR 931.1  10701.0   931.6  11006.0   930.4  11242.0   934.9  11261.0   931.9  11306.0
GR 933.2  11377.0   934.8  11409.0   936.3  12061.0   941.3  12490.0
HD 1.330       10     8038    10456
NC 0.041    0.040    0.035
X1 1.710       44     9091  10284.4     2000     2585     2480
GR 940.9   5684.9   943.3   5808.0   945.3   6004.6   945.1   6078.9   947.4   6100.1
GR 947.4   6117.9   939.1   6148.7   948.7   6187.8   948.6   6226.4   934.0   6296.9
GR 936.8   6795.4   942.6   6807.8   942.6   6816.3   935.2   6833.2   933.6   7016.1
GR 935.7   7029.0   935.7   7052.6   932.4   7065.5   932.0   7135.0   934.3   7164.7
GR 934.3   7198.3   931.9   7209.5   934.6   7333.9   933.3   7541.5   933.4   7601.4
GR 936.1   7704.9   936.0   8010.3   935.3   8305.9   935.8   8591.1   935.4   8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890     2065     1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6     2700     2945     3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222     1250      655     1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5     2800     1995     2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5      760      635      685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4      165      160      165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603     1575     1585     1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0        0        0
X1 3.734    63.0  9400.9 10599.3       25       25       25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
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GR 971.5 10106.0   971.5 10172.3   971.5 10172.4   971.5 10177.0   971.5 10177.1
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GR 973.7 10244.0   975.6 10259.0   975.6 10349.0   975.7 10474.0   975.7 10565.0
GR 989.2 10579.0   989.6 10596.0
HD 5.750      10    9426   10579
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GR1042.9   11179  1041.8   11394  1043.4   11430  1040.5   11473  1040.4   11514
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GR1077.0 10302.0  1072.6 10857.0  1078.2 11420.0
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X1 12.84    21.0    9156   10208    2490    2480    2485
X3    10
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X3    10
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GR1107.2 13055.0
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X114.412    36.0     8125    10691      240      240      240
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X3    10
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X3    10
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X3    10
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GR1108.1  9954.0  1108.6 10000.0  1106.3 10158.0  1103.9 10238.0  1106.2 10332.0
GR1106.0 10456.0  1106.0 10684.0  1160.3 10836.0  1163.1 10929.0
HD 15.98      10    9825   10836
NC                    .3      .5
X1 16.42      28  9776.8 10225.4    2185    2225    2215
X3    10
GR1147.6  8340.0  1143.6  8975.0  1136.5  9604.0  1134.9  9754.0  1135.8  9776.7
GR1130.3  9776.8  1108.7  9798.4  1108.7  9859.0  1108.7  9859.1  1108.7  9865.0
GR1108.7  9865.1  1108.7  9950.9  1108.7  9951.0  1108.7  9957.0  1108.7  9957.1
GR1108.7 10046.0  1108.7 10046.1  1108.7 10051.9  1108.7 10052.0  1108.7 10052.1
GR1108.7 10138.1  1108.7 10138.2  1108.7 10144.2  1108.7 10144.3  1108.7 10203.8
GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42      10  9776.8 10225.4
X116.446      64  9768.4 10241.0      95      95      95
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1132.0  9768.4  1110.0  9768.5  1110.0  9787.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10080.4  1110.0 10080.5  1110.0 10092.5  1118.0 10092.6  1118.0 10100.9
GR1118.0 10101.0  1118.0 10103.7  1118.0 10104.1  1118.0 10116.9  1118.0 10117.0
GR1118.0 10119.4  1118.0 10119.5  1118.0 10132.3  1118.0 10132.4  1118.0 10134.9
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GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
GR1118.0 10178.0  1118.0 10180.7  1118.0 10180.8  1118.0 10193.9  1118.0 10194.0
GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
```

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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      31  9768.4 10820.4      20      20      20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1130.0  9768.4  1110.0  9794.4  1110.0  9800.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10212.0  1110.0 10225.2  1110.0 10225.3  1110.0 10227.9  1110.0 10228.0
GR1110.0 10241.0  1110.0 10241.1  1110.0 10259.0  1110.0 10330.0  1110.0 10794.4
GR1130.0 10820.4
HD 16.45      10  9794.4 10794.4
NC            .040          0.1     0.3
X1 16.91    22.0    9758   10810    2515    2200    2440
X3    10
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1137.1  9758.0  1117.1  9784.0
GR1117.1 10000.0  1117.1 10784.0  1137.1 10810.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10    9784   10784
NC  .045     .04
X1 17.38    30.0    9271   10323    2930    2140    2455
X3    10
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1144.3  9271.0  1124.3  9297.0
GR1124.3  9845.0  1124.3  9863.0  1124.3 10000.0  1124.3 10297.0  1144.3 10323.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10    9297   10297
X1 17.76    33.0    9295   10347    2140    1900    1980
X3    10
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1150.1  9295.0
GR1130.1  9321.0  1130.1  9539.0  1130.1  9703.0  1130.1  9724.0  1130.1  9779.0
GR1130.1  9833.0  1130.1 10000.0  1130.1 10109.0  1130.1 10321.0  1150.1 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10    9321   10321
X1 18.24    28.0    9781   10843    2335    2690    2525
X3    10
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1157.5  9781.0  1137.5  9817.0  1137.5 10000.0  1137.5 10046.0
GR1137.5 10063.0  1137.5 10302.0  1137.5 10346.0  1137.5 10430.0  1137.5 10817.0
GR1157.5 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10    9817   10817
X1 18.92      27  9524.9 10576.9    3620    3800    3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1168.0  9524.9
GR1148.0  9550.9  1148.0  9573.3  1148.0  9573.4  1148.0  9691.8  1148.0 10000.0
```

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GR1148.0 10455.1  1148.0 10550.9  1168.0 10576.9  1172.0 10577.0  1171.9 10590.0
GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9550.9 10550.9
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    9088   10140    2805    2795    2800
X3    10
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1176.2  9088.0
GR1156.2  9114.0  1156.2  9574.0  1156.2  9628.0  1156.2  9684.0  1156.2  9781.0
GR1156.2  9881.0  1156.2 10114.0  1176.2 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    9114   10114
X1 19.89    33.0    8142   10997    2375    2375    2375
X3    10
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0    9474   10526     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1183.3  9474.0  1163.3  9500.0  1163.3  9844.0
GR1163.3  9930.0  1163.3 10000.0  1163.3 10067.0  1163.3 10231.0  1163.3 10267.0
GR1163.3 10500.0  1183.3 10526.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    9500   10500
X119.953    33.0  8141.9   10997      45      45      45
X3    10
GR1180.7  8142.0  1172.1  8142.0  1172.1  8259.0  1142.1  8304.0  1142.1  8837.0
GR1172.1  8884.0  1172.1  9610.0  1172.1  9620.0  1172.1  9626.0  1169.0  9844.0
GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
```

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X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
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GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42      49.0  9359.0 10853.0    2190     2140     2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X121.500      40.0    8950   13033     450.0     470.0     460.0
X3     10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500      10.0    9068   12976
X121.523      40.0    8950   13033     120.0     120.0     120.0
X3     10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523      10.0    9068   12976
X121.657      40.0    8453   13966     710.0     710.0     710.0
X3     10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680      35.0    8453   13966     120.0     120.0     120.0
X3     10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
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GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76     10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773     10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850     10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
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GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
GR1220.9 10000.0  1220.9 11265.0  1220.9 11315.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
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X3    10
GR1263.0  9454.0  1261.1  9495.0  1226.7  9564.0  1221.1  9590.0  1221.1  9790.0
GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
GR1221.3 11694.0  1222.6 11718.0  1223.6 11842.0  1221.4 11990.0  1221.4 12330.0
GR1219.1 12354.0  1218.5 12523.0  1220.2 12540.0  1220.2 12590.0  1222.6 12612.0
GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10     9564    13780
X123.571    46.0     9401    13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
GR1222.0 11532.0  1225.5 11576.0  1223.9 11706.0  1221.8 11727.0  1223.0 11843.0
GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10     9469    13531
X123.694    51.0     8893    12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
GR1229.2  9503.0  1226.4  9575.0  1226.4  9630.0  1186.4  9710.0  1186.4 10000.0
GR1186.4 10730.0  1226.4 10850.0  1226.4 10860.0  1226.4 10870.0  1226.4 10880.0
GR1226.4 10900.0  1228.5 11054.0  1226.0 11090.0  1226.1 11287.0  1228.9 11309.0
GR1228.3 11399.0  1227.0 11508.0  1228.1 11578.0  1225.4 11591.0  1225.6 11676.0
GR1227.0 11709.0  1224.6 11893.0  1228.3 11971.0  1228.3 12173.0  1227.3 12336.0
GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10     8951    12681
X123.851    39.0     8023    12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
GR1188.9  9390.0  1188.9 10410.0  1228.9 10530.0  1228.9 10580.0  1231.1 10672.0
GR1230.7 10890.0  1227.7 10935.0  1227.8 11039.0  1231.3 11071.0  1231.3 11221.0
GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10     8081    12009
X123.874    39.0     8023    12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
GR1230.2  8170.0  1232.1  8230.0  1230.3  8450.0  1230.3  8803.0  1232.6  8953.0
GR1229.3  9210.0  1229.3  9359.0  1229.3  9453.0  1229.3  9526.0  1229.3  9649.0
GR1229.3  9829.0  1229.3 10000.0  1229.3 10139.0  1229.3 10535.0  1231.7 10672.0
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GR1235.1 12009.0  1252.2 12101.0  1249.8 12152.0  1251.4 12229.0  1248.8 12295.0
GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10    8081   12009
NC 0.039   0.035   0.030
X124.070    38.0    7412   11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
GR1236.2  8719.0  1232.9  9065.0  1232.9  9195.0  1232.9  9275.0  1232.9  9500.0
GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
GR1258.1 11503.0  1255.3 11711.0  1259.1 11799.0  1259.1 11910.0  1264.0 12010.0
GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10    7448   11244
X124.085    38.0    7412   11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10    7448   11244
X1 24.17    22.0    7030   11239   280.0   280.0   280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10    7139   11193
X124.193    22.0    7030   11239   120.0   120.0   120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10    7139   11193
NC 0.040   0.034   0.030
X1 24.35    32.0    7383   11392     945     945     945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
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GR1237.1  9605.0  1237.1  9685.0  1237.1  9893.0  1237.1 10000.0  1237.1 10174.0
GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10    7450   11345
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X124.365    32.0    7383   11392      80      80      80
X3    10
GR1281.1  7170.0  1277.1  7277.0  1256.8  7383.0  1264.2  7450.0  1247.0  7565.0
GR1247.4  7627.0  1244.4  7704.0  1247.5  7800.0  1244.1  7939.0  1239.8  7961.0
GR1238.5  8358.0  1239.4  8768.0  1241.3  9067.0  1241.2  9317.0  1237.3  9470.0
GR1237.3  9600.0  1197.3  9680.0  1197.3  9893.0  1197.3 10000.0  1197.3 10174.0
GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
GR1236.5 11345.0  1265.1 11392.0  1264.4 11635.0  1264.0 11839.0  1273.4 11913.0
GR1273.3 12061.0  1269.4 12083.0
HD24.365      10    7450   11345
X124.468    33.0    7430   11477   545.0   545.0   545.0
X3    10
GR1289.3  6781.0  1285.1  6824.0  1259.6  6899.0  1260.2  7000.0  1258.5  7099.0
GR1263.1  7113.0  1259.2  7127.0  1263.5  7145.0  1254.3  7192.0  1255.3  7240.0
GR1250.7  7387.0  1255.5  7430.0  1248.7  7784.0  1242.7  7806.0  1241.8  8182.0
GR1239.8  8201.0  1240.8  8227.0  1242.2  8577.0  1243.3  9103.0  1240.5  9202.0
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GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468      10    7784   11422
X124.491    33.0    7430   11477   120.0   120.0   120.0
X3    10
GR1289.6  6781.0  1285.4  6824.0  1259.9  6899.0  1260.5  7000.0  1258.8  7099.0
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GR1243.0  9277.0  1239.3  9350.0  1239.3  9480.0  1239.3  9560.0  1239.3 10500.0
GR1239.3 10620.0  1239.3 10670.0  1240.9 10799.0  1242.0 11004.0  1238.9 11184.0
GR1237.1 11422.0  1265.3 11477.0  1265.6 11540.0
HD24.491      10    7784   11422
X1 24.54    36.0  9240.0 10227.0     135     395     235
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
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GR1278.6 12013.0
HD 24.54      10    9240   10227
NC 0.030   0.030   0.030
X1 24.90    43.0  9334.0 11529.0    2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
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GR1248.6  9839.0  1249.7  9933.0  1246.8  9959.0  1246.6 10000.0  1246.6 10037.0
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HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
X1 25.37    41.0  9459.0 11916.0    2420    2365    2485
GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
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GR1260.3  9509.0  1261.7  9524.0  1261.8  9638.0  1255.1  9673.0  1256.0  9890.0
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GR1282.4 11916.0  1285.6 12047.0  1279.8 12169.0  1289.6 12311.0  1289.6 12356.0
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HD 25.37      10    9459   11916
X1 25.59      14    9685   11070    1065    1230    1125
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HD 25.59      10    9685   11070
NC  .040    .040    .030
X1 25.86      25    8220   10215    1425    1495    1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
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NC  .041    .041    .033
X1 26.29      26.0  8722   11227    2090    2295    2240
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GR1312.6 13190.0
HD 26.29      10    8722   11227
X1 26.73      30.0  9720   11263    2320    2310    2330
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GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10    9720   11263
NC  .048    .043    .035
X1 27.03      23.0  9679   10553    1660    1020    1590
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HD 27.03      10    9679   10553
NC  .040    .040    .035
X1 27.68      35.0  8224   10125    4120    3200    3430
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GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67    36.0    9950   11203    2785    2925    2885
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NC  .042    .042    .035
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GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
GR1378.7  9025.0  1375.5  9068.0  1350.7  9135.0  1348.6  9179.0  1332.4  9217.0
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GR1332.9  9782.0  1332.2  9846.0  1327.0  9882.0  1326.7 10000.0  1326.7 10116.0
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GR1349.2 11687.0  1354.2 11697.0  1354.2 11723.0  1345.8 11737.0  1345.8 11763.0
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HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
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GR1378.5 11635.0
HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
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HD 29.80      10    9347   10610
X1 30.07    17.0    9604   10306    1425    1440    1420
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GR1365.9 10306.0  1365.0 10356.0
HD 30.07      10    9604   10306
X1 30.26      12.0  9711   10643     870    1090    1005
GR1357.2  9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043   0.043   0.045
X1 30.82      12.0  9865   11244    2955    2840    2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
GR1352.0 10201.0  1347.0 10358.0  1353.5 10398.0  1358.1 10582.0  1357.9 10879.0
GR1354.5 11132.0  1399.1 11244.0
HD 30.82      10    9865   11244
NC 0.043   0.043   0.037
X1 31.39      17.0  9470   10633    2900    3165    2970
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GR1368.6 10528.0  1407.9 10633.0
HD 31.39      10    9470   10633
X1 31.86      10.0  9490   10321    2550    2485    2505
GR1411.1  8955.0  1408.4  9155.0  1407.3  9490.0  1362.0  9604.0  1364.9  9727.0
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HD 31.86      10    9490   10321
NC 0.043   0.052   0.040
X1 32.43      14.0  9438   10437    2885    2970    2980
GR1424.1  9340.0  1415.1  9438.0  1371.3  9508.0  1372.3  9554.0  1363.8  9607.0
GR1372.6  9692.0  1375.5  9852.0  1373.4  9965.0  1370.7 10000.0  1372.7 10073.0
GR1383.1 10112.0  1388.9 10373.0  1403.2 10437.0  1436.0 10487.0
HD 32.43      10    9438   10437
NC  .049    .049    .042
X1 32.86      12.0  9719   10564    2405    2135    2295
GR1423.4  9670.0  1424.3  9719.0  1386.4  9797.0  1381.2  9855.0  1380.4  9928.0
GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10    9719   10564
NC  .047    .055    .032
X132.984      33    9750   10150     648     648     648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10    9750   10150
X132.998     9.0    9762   10164      72      72      72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10    9762   10164
NC  .060    .050    .050
X1 33.41      12.0  9750   10687    1880    2270    2170
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GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                      RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                         PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                               UPDATED ON:  MAY 15, 1992
T8      **************************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01   4000.  20000.  40000.  60000.  85000.
LT      QS    0.01   3082.  26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N   0.160         0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N   0.440         0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   0.730         0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   1.330         0.20997 0.04955 0.95000         0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
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N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
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N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N   2.800         0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
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N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N          0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N          0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
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N          0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N          0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N          0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
N 11.340          0.20997 0.14758 0.95000          0.02582 0.06943 0.13373 0.12004
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N         0.15313 0.06655 0.09027 0.09565 0.09806 0.09687
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N         0.26319 0.08305 0.08766 0.07735 0.04680 0.05217
N  24.085         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.170         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.193         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.350         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.365         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.468         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.491         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.540         0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N  24.900         0.20997 0.11878 0.95000         0.00923 0.04467 0.21324 0.14742
N         0.17234 0.05644 0.06754 0.10079 0.11634 0.06850
N  25.370         0.20997 0.12678 0.95000         0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N  25.590         0.20997 0.12678 0.95000         0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N  25.860         0.20997 0.10795 0.95000         0.00538 0.03093 0.08500 0.21779
N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N  26.290         0.20997 0.18668 0.95000         0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N  26.730         0.20997 0.15103 0.95000         0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N  27.030         0.20997 0.19690 0.95000         0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N  27.680         0.20997 0.14198 0.95000         0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N  28.120         0.20997 0.20569 0.90000         0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N  28.670         0.20997 0.05813 0.95000         0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N  29.040         0.20997 0.17791 0.95000         0.00510 0.00977 0.02614 0.06339
N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N  29.540         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  29.611         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  29.800         0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N  30.070         0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
```

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N 30.260          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000          0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061          0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q  5875.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q  5875.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 11750.   2500.
X             0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 11750.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 17625.   3750.
```

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X            0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 17625.    3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 23500.    5000.
X            0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 23500.    5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 17625.    3750.
X            0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 17625.    3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 11750.    2500.
X            0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 11750.    2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q  5875.    1250.
X            0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q  5875.    1250.
W   0.05
$$END
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# APPENDIX I.3.2 - MODEL III (100-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070   0.040   0.044      .1      .3
X1 0.160    47.0    8000   12725     470     460     465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160     10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420    1510    1465    1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440     10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394    1565    1475    1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0   15560
HD 0.730     10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456    3405    3325    3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330     10    8038   10456
NC 0.041   0.040   0.035
X1 1.710     44    9091 10284.4    2000    2585    2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890    2065    1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6    2700    2945    3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222    1250     655    1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5    2800    1995    2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5     760     635     685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4     165     160     165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603    1575    1585    1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0       0       0
X1 3.734    63.0  9400.9 10599.3      25      25      25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
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GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
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GR 973.7 10244.0   975.6 10259.0   975.6 10349.0   975.7 10474.0   975.7 10565.0
GR 989.2 10579.0   989.6 10596.0
HD 5.750      10    9426   10579
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GR 977.6 10544.0   991.1 10561.0
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GR1043.9    8851  1043.1    8941  1043.4    9086  1058.8    9125  1038.8    9151
GR1038.8   10000  1038.8   10151  1058.8   10177  1042.6   10179  1043.3   10280
GR1043.9   10386  1044.0   10537  1043.9   10672  1043.2   10833  1043.0   10986
GR1042.9   11179  1041.8   11394  1043.4   11430  1040.5   11473  1040.4   11514
GR1042.8   11560  1042.4   11684  1037.8   11718  1037.8   11745  1042.2   11798
GR1042.8   11943  1042.8   12086  1043.0   12218  1044.2   12321  1045.7   12508
GR1045.7   12561  1047.4   12619  1044.3   12722  1044.5   12768  1045.5   12788
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NC  .045    .045    .059      .1      .3
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GR1046.8    7991  1046.1    8135  1045.4    8248  1045.2    8375  1048.4    8429
GR1047.4    8461  1050.3    8515  1045.5    8604  1039.5    8661  1043.2    8720
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GR1045.3   10148  1046.4   10178  1045.5   10236  1046.8   10287  1046.8   10389
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NC 0.045   0.055   0.035     0.4     0.6
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GR1061.0   10597
HD 11.34      10    9121   10121
NC                          0.1     0.3
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X3    10
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GR1051.9    8550  1049.5    8600  1070.4    9065  1050.4    9091  1050.4   10000
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GR1077.0 10302.0  1072.6 10857.0  1078.2 11420.0
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X1 12.84    21.0    9156   10208    2490    2480    2485
X3    10
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NC  0.04   0.04    0.03
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X3    10
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X3    10
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
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GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38    10.0    8140   10571
X114.412    36.0    8125   10691     240     240     240
X3    10
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GR1091.0 10369.0  1087.4 10445.0  1087.8 10571.0  1097.5 10691.0  1099.2 11028.0
GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
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HD 14.85    10.0    9106   10454
X114.932    44.0    9140   11341     425     425     425
X3    10
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X3    10
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X1 15.32      41    9681   11192      90      90      90
X3    10
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HD 15.51      10    9756   11854
X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
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GR1108.7 10046.0  1108.7 10046.1  1108.7 10051.9  1108.7 10052.0  1108.7 10052.1
GR1108.7 10138.1  1108.7 10138.2  1108.7 10144.2  1108.7 10144.3  1108.7 10203.8
GR1124.8 10225.3  1130.3 10225.4  1130.0 10282.0
HD 16.42      10  9776.8 10225.4
X116.446      64  9768.4 10241.0      95      95      95
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1132.0  9768.4  1110.0  9768.5  1110.0  9787.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10080.4  1110.0 10080.5  1110.0 10092.5  1118.0 10092.6  1118.0 10100.9
GR1118.0 10101.0  1118.0 10103.7  1118.0 10104.1  1118.0 10116.9  1118.0 10117.0
GR1118.0 10119.4  1118.0 10119.5  1118.0 10132.3  1118.0 10132.4  1118.0 10134.9
GR1118.0 10135.0  1118.0 10147.4  1118.0 10147.5  1118.0 10149.9  1118.0 10150.0
GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
GR1118.0 10178.0  1118.0 10180.7  1118.0 10180.8  1118.0 10193.9  1118.0 10194.0
GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
```

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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      31  9768.4 10820.4       20       20       20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1130.0  9768.4  1110.0  9794.4  1110.0  9800.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10212.0  1110.0 10225.2  1110.0 10225.3  1110.0 10227.9  1110.0 10228.0
GR1110.0 10241.0  1110.0 10241.1  1110.0 10259.0  1110.0 10330.0  1110.0 10794.4
GR1130.0 10820.4
HD 16.45      10  9794.4 10794.4
NC            .040          0.1      0.3
X1 16.91    22.0     9758    10810    2515     2200     2440
X3    10
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1137.1  9758.0  1117.1  9784.0
GR1117.1 10000.0  1117.1 10784.0  1137.1 10810.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10    9784    10784
NC  .045     .04
X1 17.38    30.0     9271    10323    2930     2140     2455
X3    10
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1144.3  9271.0  1124.3  9297.0
GR1124.3  9845.0  1124.3  9863.0  1124.3 10000.0  1124.3 10297.0  1144.3 10323.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10    9297    10297
X1 17.76    33.0     9295    10347    2140     1900     1980
X3    10
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1150.1  9295.0
GR1130.1  9321.0  1130.1  9539.0  1130.1  9703.0  1130.1  9724.0  1130.1  9779.0
GR1130.1  9833.0  1130.1 10000.0  1130.1 10109.0  1130.1 10321.0  1150.1 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10    9321    10321
X1 18.24    28.0     9781    10843    2335     2690     2525
X3    10
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1157.5  9781.0  1137.5  9817.0  1137.5 10000.0  1137.5 10046.0
GR1137.5 10063.0  1137.5 10302.0  1137.5 10346.0  1137.5 10430.0  1137.5 10817.0
GR1157.5 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10    9817    10817
X1 18.92      27  9524.9 10576.9    3620     3800     3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1168.0  9524.9
GR1148.0  9550.9  1148.0  9573.3  1148.0  9573.4  1148.0  9691.8  1148.0 10000.0
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GR1148.0 10455.1  1148.0 10550.9  1168.0 10576.9  1172.0 10577.0  1171.9 10590.0
GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9550.9 10550.9
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    9088   10140    2805    2795    2800
X3    10
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1176.2  9088.0
GR1156.2  9114.0  1156.2  9574.0  1156.2  9628.0  1156.2  9684.0  1156.2  9781.0
GR1156.2  9881.0  1156.2 10114.0  1176.2 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10  9114   10114
X1 19.89    33.0    8142   10997    2375    2375    2375
X3    10
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10  8142   10997
NC  0.04    0.04    0.03
X119.944    33.0    9474   10526     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1183.3  9474.0  1163.3  9500.0  1163.3  9844.0
GR1163.3  9930.0  1163.3 10000.0  1163.3 10067.0  1163.3 10231.0  1163.3 10267.0
GR1163.3 10500.0  1183.3 10526.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    9500   10500
X119.953    33.0  8141.9   10997      45      45      45
X3    10
GR1180.7  8142.0  1172.1  8142.0  1172.1  8259.0  1142.1  8304.0  1142.1  8837.0
GR1172.1  8884.0  1172.1  9610.0  1172.1  9620.0  1172.1  9626.0  1169.0  9844.0
GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
```

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X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
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GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42      49.0  9359.0 10853.0    2190     2140     2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0   10853
X121.500      40.0    8950   13033    450.0    470.0    460.0
X3     10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500      10.0    9068   12976
X121.523      40.0    8950   13033    120.0    120.0    120.0
X3     10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523      10.0    9068   12976
X121.657      40.0    8453   13966    710.0    710.0    710.0
X3     10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680      35.0    8453   13966    120.0    120.0    120.0
X3     10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
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GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
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GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040  0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040  0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
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GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
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X3    10
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GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
GR1221.3 11694.0  1222.6 11718.0  1223.6 11842.0  1221.4 11990.0  1221.4 12330.0
GR1219.1 12354.0  1218.5 12523.0  1220.2 12540.0  1220.2 12590.0  1222.6 12612.0
GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
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GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
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GR1186.4 10730.0  1226.4 10850.0  1226.4 10860.0  1226.4 10870.0  1226.4 10880.0
GR1226.4 10900.0  1228.5 11054.0  1226.0 11090.0  1226.1 11287.0  1228.9 11309.0
GR1228.3 11399.0  1227.0 11508.0  1228.1 11578.0  1225.4 11591.0  1225.6 11676.0
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GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
GR1188.9  9390.0  1188.9 10410.0  1228.9 10530.0  1228.9 10580.0  1231.1 10672.0
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GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
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GR1230.2  8170.0  1232.1  8230.0  1230.3  8450.0  1230.3  8803.0  1232.6  8953.0
GR1229.3  9210.0  1229.3  9359.0  1229.3  9453.0  1229.3  9526.0  1229.3  9649.0
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GR1235.1 12009.0  1252.2 12101.0  1249.8 12152.0  1251.4 12229.0  1248.8 12295.0
GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10    8081   12009
NC 0.039   0.035   0.030
X124.070    38.0    7412   11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
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GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
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GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10    7448   11244
X124.085    38.0    7412   11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10    7448   11244
X1 24.17    22.0    7030   11239   280.0   280.0   280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10    7139   11193
X124.193    22.0    7030   11239   120.0   120.0   120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10    7139   11193
NC 0.040   0.034   0.030
X1 24.35    32.0    7383   11392     945     945     945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.1  9475.0
GR1237.1  9605.0  1237.1  9685.0  1237.1  9893.0  1237.1 10000.0  1237.1 10174.0
GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10    7450   11345
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X124.365    32.0    7383   11392      80      80      80
X3    10
GR1281.1  7170.0  1277.1  7277.0  1256.8  7383.0  1264.2  7450.0  1247.0  7565.0
GR1247.4  7627.0  1244.4  7704.0  1247.5  7800.0  1244.1  7939.0  1239.8  7961.0
GR1238.5  8358.0  1239.4  8768.0  1241.3  9067.0  1241.2  9317.0  1237.3  9470.0
GR1237.3  9600.0  1197.3  9680.0  1197.3  9893.0  1197.3 10000.0  1197.3 10174.0
GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
GR1236.5 11345.0  1265.1 11392.0  1264.4 11635.0  1264.0 11839.0  1273.4 11913.0
GR1273.3 12061.0  1269.4 12083.0
HD24.365      10    7450   11345
X124.468    33.0    7430   11477   545.0   545.0   545.0
X3    10
GR1289.3  6781.0  1285.1  6824.0  1259.6  6899.0  1260.2  7000.0  1258.5  7099.0
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GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468      10    7784   11422
X124.491    33.0    7430   11477   120.0   120.0   120.0
X3    10
GR1289.6  6781.0  1285.4  6824.0  1259.9  6899.0  1260.5  7000.0  1258.8  7099.0
GR1263.4  7113.0  1259.5  7127.0  1263.8  7145.0  1254.6  7192.0  1255.6  7240.0
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GR1239.3 10620.0  1239.3 10670.0  1240.9 10799.0  1242.0 11004.0  1238.9 11184.0
GR1237.1 11422.0  1265.3 11477.0  1265.6 11540.0
HD24.491      10    7784   11422
X1 24.54    36.0  9240.0 10227.0     135     395     235
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
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GR1278.6 12013.0
HD 24.54      10    9240   10227
NC 0.030   0.030   0.030
X1 24.90    43.0  9334.0 11529.0    2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
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HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
X1 25.37    41.0  9459.0 11916.0    2420    2365    2485
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GR1282.4 11916.0  1285.6 12047.0  1279.8 12169.0  1289.6 12311.0  1289.6 12356.0
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GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
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HD 25.37      10     9459    11916
X1 25.59      14     9685    11070     1065     1230     1125
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HD 25.59      10     9685    11070
NC  .040    .040     .030
X1 25.86      25     8220    10215     1425     1495     1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
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NC  .041    .041     .033
X1 26.29    26.0     8722    11227     2090     2295     2240
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GR1277.4  9349.0  1273.2  9372.0  1276.7  9696.0  1274.9  9925.0  1271.6  9943.0
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HD 26.29      10     8722    11227
X1 26.73    30.0     9720    11263     2320     2310     2330
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GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
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HD 26.73      10     9720    11263
NC  .048    .043     .035
X1 27.03    23.0     9679    10553     1660     1020     1590
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HD 27.03      10     9679    10553
NC  .040    .040     .035
X1 27.68    35.0     8224    10125     4120     3200     3430
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GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67    36.0    9950   11203    2785    2925    2885
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NC  .042    .042    .035
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HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
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GR1332.9  9782.0  1332.2  9846.0  1327.0  9882.0  1326.7 10000.0  1326.7 10116.0
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HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
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HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
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X1 30.07    17.0    9604   10306    1425    1440    1420
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HD 30.07      10    9604   10306
X1 30.26    12.0    9711   10643     870    1090    1005
GR1357.2  9625.0  1361.9  9711.0  1342.1  9749.0  1338.9 10000.0  1339.3 10135.0
GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043  0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
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NC 0.043  0.043   0.037
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HD 31.39      10    9470   10633
X1 31.86    10.0    9490   10321    2550    2485    2505
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HD 31.86      10    9490   10321
NC 0.043  0.052   0.040
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NC  .049   .049    .042
X1 32.86    12.0    9719   10564    2405    2135    2295
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GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10    9719   10564
NC  .047   .055    .032
X132.984      33    9750   10150     648     648     648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
GR1378.4  9997.0  1380.2 10011.0  1382.2 10018.0  1384.2 10050.0  1386.8 10053.0
GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10    9750   10150
X132.998     9.0    9762   10164      72      72      72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10    9762   10164
NC  .060   .050    .050
X1 33.41    12.0    9750   10687    1880    2270    2170
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GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                      RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                         PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                               UPDATED ON:  MAY 15, 1992
T8      **********************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01   4000.  20000.  40000.  60000.  85000.
LT      QS    0.01   3082.  26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N   0.160           0.20997 0.20997 0.88000           0.02466 0.12840 0.13531 0.25571
N           0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N   0.440           0.20997 0.04092 0.95000           0.00619 0.05233 0.26511 0.22718
N           0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   0.730           0.20997 0.04092 0.95000           0.00619 0.05233 0.26511 0.22718
N           0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   1.330           0.20997 0.04955 0.95000           0.00445 0.04807 0.21089 0.19967
N           0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N   1.710           0.20997 0.18396 0.95000           0.00700 0.04540 0.14795 0.11933
N           0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
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N           0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N   2.600           0.20997 0.01908 0.95000           0.01569 0.12077 0.38478 0.21525
N           0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N   2.800           0.20997 0.01908 0.95000           0.01569 0.12077 0.38478 0.21525
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N   3.270           0.20997 0.10348 0.95000           0.01346 0.07803 0.31326 0.16399
N           0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
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N           0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N   3.430           0.20997 0.10348 0.95000           0.01346 0.07803 0.31326 0.16399
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N           0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N  4.270          0.20997 0.13909 0.95000          0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
N  4.700          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.20525 0.03644 0.04059 0.03787 0.03294 0.02446
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N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
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N         0.13927 0.09282 0.05630 0.03361 0.02822 0.01194
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N 23.350          0.20997 0.17333 0.95000          0.00669 0.05531 0.12720 0.18266
N         0.15313 0.06655 0.09027 0.09565 0.09806 0.09687
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N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.468          0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.491          0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.540          0.20997 0.06172 0.95000         0.00944 0.00060 0.17255 0.15874
N         0.21901 0.12364 0.12097 0.08564 0.05219 0.01166
N 24.900          0.20997 0.11878 0.95000         0.00923 0.04467 0.21324 0.14742
N         0.17234 0.05644 0.06754 0.10079 0.11634 0.06850
N 25.370          0.20997 0.12678 0.95000         0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.590          0.20997 0.12678 0.95000         0.00149 0.00980 0.08434 0.12091
N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.860          0.20997 0.10795 0.95000         0.00538 0.03093 0.08500 0.21779
N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000         0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000         0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000         0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000         0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000         0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000         0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000         0.00510 0.00977 0.02614 0.06339
N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000         0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000         0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
```

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N 30.260          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000          0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061          0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q  9250.   1250.
T    60.     60.
X             0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q  9250.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 18500.   2500.
X             0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 18500.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 27750.   3750.
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X             0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 27750.    3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 37000.    5000.
X             0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 37000.    5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 27750.    3750.
X             0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 27750.    3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 18500.    2500.
X             0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 18500.    2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q  9250.    1250.
X             0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q  9250.    1250.
W   0.05
$$END
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# APPENDIX I.3.3 - MODEL III (200-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070   0.040   0.044      .1      .3
X1 0.160    47.0    8000   12725     470     460     465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160     10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420    1510    1465    1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440     10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394    1565    1475    1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0   15560
HD 0.730     10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456    3405    3325    3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330     10    8038   10456
NC 0.041   0.040   0.035
X1 1.710     44    9091 10284.4    2000    2585    2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890     2065     1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6     2700     2945     3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222     1250      655     1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5     2800     1995     2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5      760      635      685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4      165      160      165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603     1575     1585     1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0        0        0
X1 3.734    63.0  9400.9 10599.3       25       25       25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767       0       0       0
NC   .04    .045    .025
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NC  .040    .040    .022
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NC   .04    .04    .022      .3       .5
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GR 973.7 10244.0   975.6 10259.0   975.6 10349.0   975.7 10474.0   975.7 10565.0
GR 989.2 10579.0   989.6 10596.0
HD 5.750      10    9426   10579
X1 5.900    17.0  9429.0 10561.0     945     950     950
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GR 977.5  9714.0   977.6  9829.0   977.4  9946.0   975.4  9958.0   975.5 10040.0
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GR 977.6 10544.0   991.1 10561.0
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GR 996.1  9390.0   991.8  9409.0   991.6  9433.0   996.5  9443.0   996.5  9452.0
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NC 0.022  0.022   0.022      .3      .5
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X3    10
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X3    10
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GR1048.2    7375  1048.3    7481  1046.6    7595  1046.8    7741  1047.2    7866
GR1046.8    7991  1046.1    8135  1045.4    8248  1045.2    8375  1048.4    8429
GR1047.4    8461  1050.3    8515  1045.5    8604  1039.5    8661  1043.2    8720
GR1057.8    8799  1042.8    8825  1042.8    8830  1042.8    8880  1042.8    9800
GR1042.8    9825  1057.8    9851  1038.8    9937  1036.5   10000  1045.1   10102
GR1045.3   10148  1046.4   10178  1045.5   10236  1046.8   10287  1046.8   10389
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NC 0.045   0.055   0.035     0.4     0.6
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X3    10
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GR1050.1    7357  1048.8    7509  1047.8    7702  1049.0    7871  1050.1    8017
GR1050.4    8177  1051.2    8348  1050.4    8493  1050.6    8658  1050.8    8828
GR1051.0    8974  1067.6    9095  1047.6    9121  1047.6   10000  1047.6   10121
GR1067.6   10147  1056.6   10178  1056.8   10295  1060.3   10368  1060.5   10482
GR1061.0   10597
HD 11.34      10    9121   10121
NC                          0.1     0.3
X1 11.52      31    9065   10117     980     980     980
X3    10
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GR1051.2    6305  1051.9    6462  1050.8    6571  1050.9    6715  1051.0    6849
GR1051.8    6962  1048.2    7089  1050.0    7210  1050.4    7345  1050.6    7465
GR1050.4    7550  1050.8    7652  1052.4    7800  1052.6    7916  1051.9    7950
GR1051.9    8550  1049.5    8600  1070.4    9065  1050.4    9091  1050.4   10000
GR1050.4   10091  1070.4   10117  1062.5   10209  1063.8   10315  1065.6   10431
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HD 11.52      10    9091   10091
X1 11.80      41    9181   10233    1415    1415    1415
X3    10
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GR1054.4    9207  1054.4    9300  1054.4    9400  1054.4    9500  1054.4   10000
GR1054.4   10207  1074.4   10233  1076.2   10302  1075.0   10388  1072.1   10447
GR1074.2   10502
HD 11.80      10    9207   10207
X1 12.38    23.0    9250   10302    2885    2885    2885
X3    10
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GR1077.0 10302.0  1072.6 10857.0  1078.2 11420.0
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X1 12.84    21.0    9156   10208    2490    2480    2485
X3    10
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GR1084.1 10208.0  1082.2 10255.0  1072.0 10289.0  1072.0 10425.0  1072.0 10999.0
GR1075.7 11200.0
HD 12.84      10    9182   10182
X1 13.33      72    9474   10526    2585    2585    2585
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GR1071.5 10385.5  1071.5 10485.6  1071.5 10490.4  1071.5 10495.0  1071.5 10500.0
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GR1071.5 10741.1  1086.4 10758.5  1093.0 10758.6  1092.8 10784.0  1090.0 10910.0
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GR1099.6 12607.0  1100.0 13232.0
HD 13.33     10    9500   10500
NC  0.04   0.04    0.03
X1 13.81   30.0    7867   10525    2560    2560    2560
X3    10
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GR1084.8  7867.0  1080.5  8265.0  1080.5  8365.0  1080.5  8485.0  1080.5  9315.0
GR1080.5  9435.0  1080.5  9535.0  1081.5  9580.0  1078.6  9597.0  1078.6 10000.0
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GR1099.6 10738.0  1095.4 10896.0  1096.7 11458.0  1099.1 11517.0  1099.1 11575.0
HD 13.81   10.0    8265   10454
X113.855   30.0    7867   10525     240     240     240
X3    10
GR1099.5  6280.0  1088.6  6333.0  1084.4  6543.0  1086.1  6895.0  1086.1  7105.0
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GR1085.3  7867.0  1081.0  8265.0  1081.0  8365.0  1041.0  8485.0  1041.0  9315.0
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GR1100.1 10738.0  1095.9 10896.0  1097.2 11458.0  1099.6 11517.0  1099.6 11575.0
HD13.855   10.0    8265   10454
X1 14.38   36.0    8125   10691    2170    3125    2725
X3    10
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
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GR1085.4  8140.0  1085.4  8240.0  1045.4  8360.0  1045.4  9190.0  1085.4  9310.0
GR1085.4  9320.0  1085.4  9350.0  1085.4  9400.0  1085.4  9410.0  1089.1  9458.0
GR1088.0  9838.0  1084.4 10000.0  1084.4 10065.0  1092.0 10085.0  1092.6 10234.0
GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38   10.0    8140   10571
X114.412   36.0    8125   10691     240     240     240
X3    10
GR1114.5  6715.0  1112.5  6750.0  1104.5  6765.0  1100.5  6790.0  1092.5  6830.0
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GR1091.0 10369.0  1087.4 10445.0  1087.8 10571.0  1097.5 10691.0  1099.2 11028.0
GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
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GR1112.3 14491.0  1113.0 14537.0
HD 14.85    10.0    9106   10454
X114.932    44.0    9140   11341     425     425     425
X3    10
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X1 14.94    44.0    9140   11341      45      45      45
X3    10
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X3    10
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X1 15.32      41    9681   11192      90      90      90
X3    10
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NC   .04     .04     .03      .1      .3
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HD 15.51      10    9756   11854
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X3    10
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HD 15.98      10    9825   10836
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X116.446      64  9768.4 10241.0      95      95      95
X3    10
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GR1118.0 10162.8  1118.0 10162.9  1118.0 10165.3  1118.0 10165.4  1118.0 10177.9
GR1118.0 10178.0  1118.0 10180.7  1118.0 10180.8  1118.0 10193.9  1118.0 10194.0
GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
```

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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      31  9768.4 10820.4       20       20       20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1130.0  9768.4  1110.0  9794.4  1110.0  9800.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10212.0  1110.0 10225.2  1110.0 10225.3  1110.0 10227.9  1110.0 10228.0
GR1110.0 10241.0  1110.0 10241.1  1110.0 10259.0  1110.0 10330.0  1110.0 10794.4
GR1130.0 10820.4
HD 16.45      10  9794.4 10794.4
NC            .040              0.1      0.3
X1 16.91    22.0     9758    10810     2515     2200     2440
X3    10
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1137.1  9758.0  1117.1  9784.0
GR1117.1 10000.0  1117.1 10784.0  1137.1 10810.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10     9784    10784
NC  .045     .04
X1 17.38    30.0     9271    10323     2930     2140     2455
X3    10
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1144.3  9271.0  1124.3  9297.0
GR1124.3  9845.0  1124.3  9863.0  1124.3 10000.0  1124.3 10297.0  1144.3 10323.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10     9297    10297
X1 17.76    33.0     9295    10347     2140     1900     1980
X3    10
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1150.1  9295.0
GR1130.1  9321.0  1130.1  9539.0  1130.1  9703.0  1130.1  9724.0  1130.1  9779.0
GR1130.1  9833.0  1130.1 10000.0  1130.1 10109.0  1130.1 10321.0  1150.1 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10     9321    10321
X1 18.24    28.0     9781    10843     2335     2690     2525
X3    10
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1157.5  9781.0  1137.5  9817.0  1137.5 10000.0  1137.5 10046.0
GR1137.5 10063.0  1137.5 10302.0  1137.5 10346.0  1137.5 10430.0  1137.5 10817.0
GR1157.5 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10     9817    10817
X1 18.92      27  9524.9 10576.9     3620     3800     3595
X3    10
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GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1168.0  9524.9
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GR1148.0 10455.1  1148.0 10550.9  1168.0 10576.9  1172.0 10577.0  1171.9 10590.0
GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10  9550.9 10550.9
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    9088   10140    2805    2795    2800
X3    10
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1176.2  9088.0
GR1156.2  9114.0  1156.2  9574.0  1156.2  9628.0  1156.2  9684.0  1156.2  9781.0
GR1156.2  9881.0  1156.2 10114.0  1176.2 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    9114   10114
X1 19.89    33.0    8142   10997    2375    2375    2375
X3    10
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0    9474   10526     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1183.3  9474.0  1163.3  9500.0  1163.3  9844.0
GR1163.3  9930.0  1163.3 10000.0  1163.3 10067.0  1163.3 10231.0  1163.3 10267.0
GR1163.3 10500.0  1183.3 10526.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    9500   10500
X119.953    33.0  8141.9   10997      45      45      45
X3    10
GR1180.7  8142.0  1172.1  8142.0  1172.1  8259.0  1142.1  8304.0  1142.1  8837.0
GR1172.1  8884.0  1172.1  9610.0  1172.1  9620.0  1172.1  9626.0  1169.0  9844.0
GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
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X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
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GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10     8125    10446
X1 21.42      49.0  9359.0 10853.0    2190     2140     2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0    10853
X121.500      40.0     8950    13033     450.0     470.0     460.0
X3     10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500      10.0     9068    12976
X121.523      40.0     8950    13033     120.0     120.0     120.0
X3     10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523      10.0     9068    12976
X121.657      40.0     8453    13966     710.0     710.0     710.0
X3     10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
GR1159.8 13200.0  1199.8 13320.0  1199.8 13330.0  1199.8 13340.0  1199.8 13350.0
GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10     8546    13730
X121.680      35.0     8453    13966     120.0     120.0     120.0
X3     10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
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GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
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GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
X122.130    36.0    9978   14136   120.0   120.0   120.0
X3    10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3    10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3    10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040  0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040  0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3    10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
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GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
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X3    10
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GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
GR1221.3 11694.0  1222.6 11718.0  1223.6 11842.0  1221.4 11990.0  1221.4 12330.0
GR1219.1 12354.0  1218.5 12523.0  1220.2 12540.0  1220.2 12590.0  1222.6 12612.0
GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
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GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
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GR1226.4 10900.0  1228.5 11054.0  1226.0 11090.0  1226.1 11287.0  1228.9 11309.0
GR1228.3 11399.0  1227.0 11508.0  1228.1 11578.0  1225.4 11591.0  1225.6 11676.0
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GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
GR1188.9  9390.0  1188.9 10410.0  1228.9 10530.0  1228.9 10580.0  1231.1 10672.0
GR1230.7 10890.0  1227.7 10935.0  1227.8 11039.0  1231.3 11071.0  1231.3 11221.0
GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
GR1230.2  8170.0  1232.1  8230.0  1230.3  8450.0  1230.3  8803.0  1232.6  8953.0
GR1229.3  9210.0  1229.3  9359.0  1229.3  9453.0  1229.3  9526.0  1229.3  9649.0
GR1229.3  9829.0  1229.3 10000.0  1229.3 10139.0  1229.3 10535.0  1231.7 10672.0
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GR1235.1 12009.0  1252.2 12101.0  1249.8 12152.0  1251.4 12229.0  1248.8 12295.0
GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10    8081   12009
NC 0.039   0.035   0.030
X124.070    38.0    7412   11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
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GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
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GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10    7448   11244
X124.085    38.0    7412   11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
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GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10    7448   11244
X1 24.17    22.0    7030   11239   280.0   280.0   280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10    7139   11193
X124.193    22.0    7030   11239   120.0   120.0   120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10    7139   11193
NC 0.040   0.034   0.030
X1 24.35    32.0    7383   11392     945     945     945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.1  9475.0
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GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
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HD 24.35      10    7450   11345
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HD24.365      10    7450   11345
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X3    10
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HD24.468      10    7784   11422
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X3    10
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NC 0.030   0.030   0.030
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NC 0.040   0.040   0.030
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NC  .040    .040    .030
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NC  .041    .041    .033
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X1 26.73      30.0  9720   11263    2320    2310    2330
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NC  .048    .043    .035
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HD 28.12      10    9108   10107
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HD 29.04      10    9808   10638
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HD 29.54      10    9198   10150
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X1 30.07    17.0    9604   10306    1425    1440    1420
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NC 0.043   0.043   0.045
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X1 31.86    10.0    9490   10321    2550    2485    2505
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NC 0.043   0.052   0.040
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X132.998     9.0    9762   10164      72      72      72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10    9762   10164
NC  .060   .050    .050
X1 33.41    12.0    9750   10687    1880    2270    2170
```

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GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                      RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                         PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                              UPDATED ON:  MAY 15, 1992
T8      **********************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01   4000.  20000.  40000.  60000.  85000.
LT      QS    0.01   3082.  26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N   0.160           0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N   0.440           0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   0.730           0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   1.330           0.20997 0.04955 0.95000         0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N   1.710           0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N   2.020           0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
N   2.600           0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
N   2.800           0.20997 0.01908 0.95000         0.01569 0.12077 0.38478 0.21525
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N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
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N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N   3.430           0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.22609 0.09454 0.09019 0.10737 0.04570 0.00220
N  4.270          0.20997 0.13909 0.95000          0.01473 0.06167 0.16542 0.10644
N         0.11964 0.05433 0.23290 0.07108 0.07702 0.08097
N  4.700          0.20997 0.12303 0.95000          0.03377 0.04570 0.10333 0.09115
N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.15894 0.04993 0.08837 0.11297 0.12731 0.08802
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N         0.22085 0.10524 0.15080 0.11515 0.10960 0.08031
N 25.860          0.20997 0.10795 0.95000          0.00538 0.03093 0.08500 0.21779
N         0.30391 0.10771 0.09192 0.03978 0.05572 0.03386
N 26.290          0.20997 0.18668 0.95000          0.00224 0.04115 0.11411 0.20318
N         0.20070 0.06822 0.08444 0.07735 0.08152 0.10243
N 26.730          0.20997 0.15103 0.95000          0.00054 0.00193 0.08266 0.13204
N         0.23227 0.10131 0.14684 0.14424 0.08659 0.07083
N 27.030          0.20997 0.19690 0.95000          0.00316 0.01357 0.06346 0.12297
N         0.22397 0.10727 0.13958 0.08334 0.10135 0.10213
N 27.680          0.20997 0.14198 0.95000          0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000          0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000          0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000          0.00510 0.00977 0.02614 0.06339
N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000          0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
```

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N 30.260          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000          0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061          0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q 14750.   1250.
T    60.     60.
X              0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q 14750.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 29500.   2500.
X              0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 29500.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 44250.   3750.
```

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X             0.1     0.9
*        TIME DURATION 6 - HYDROGRAPH 1
Q 44250.    3750.
W  0.025
*        TIME DURATION 7 - HYDROGRAPH 1
Q 59000.    5000.
X             0.1     0.4
*        TIME DURATION 8 - HYDROGRAPH 1
Q 59000.    5000.
W 0.0625
*        TIME DURATION 9 - HYDROGRAPH 1
Q 44250.    3750.
X             0.1     0.9
*        TIME DURATION 10 - HYDROGRAPH 1
Q 44250.    3750.
W  0.025
*        TIME DURATION 11 - HYDROGRAPH 1
Q 29500.    2500.
X             0.1     1.3
*        TIME DURATION 12 - HYDROGRAPH 1
Q 29500.    2500.
W   0.09
*        TIME DURATION 13 - HYDROGRAPH 1
Q 14750.    1250.
X             0.1     1.8
*    B   TIME DURATION 14 - HYDROGRAPH 1
Q 14750.    1250.
W   0.05
$$END
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# APPENDIX I.3.4 - MODEL III (500-YEAR)

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T1       AGUA FRIA RIVER SEDIMENT TRANSPORT MODELING [HEC-6 DATA]
T2       LAST UPDATED JULY 5, 1993  - MODEL IIB
T3
NC 0.070   0.040   0.044      .1      .3
X1 0.160    47.0    8000   12725     470     460     465
GR 924.4  4925.0   924.2  5199.0   921.8  5600.0   919.5  5760.0   919.4  5959.0
GR 920.9  6245.0   920.8  6516.0   919.3  6554.0   919.8  6850.0   919.6  7271.0
GR 920.5  7535.0   917.6  8136.0   917.4  8339.0   912.3  8356.0   917.2  8376.0
GR 916.4  8991.0   914.0  9212.0   911.6  9231.0   913.2  9494.0   911.8  9720.0
GR 910.7 10000.0   909.6 10136.0   921.6 10167.0   923.0 10184.0   913.7 10213.0
GR 913.7 10477.0   917.1 10590.0   916.6 10873.0   910.5 10909.0   910.5 11042.0
GR 915.2 11068.0   912.1 11265.0   911.5 11516.0   908.3 11664.0   910.4 11830.0
GR 916.1 11911.0   914.1 12098.0   914.9 12628.0   922.1 12652.0   922.7 12725.0
GR 916.5 12758.0   916.8 13671.0   916.2 14363.0   917.2 14971.0   917.8 15391.0
GR 913.5 15403.0   920.3 15459.0
HD 0.160     10    8000   12725
NC 0.033   0.040   0.039
X1 0.440    40.0    8029   10420    1510    1465    1485
GR 927.5  3107.0   925.0  4575.0   922.8  5984.0   921.8  6974.0   920.3  7816.0
GR 923.1  7847.0   923.3  7915.0   919.1  7942.0   919.1  7995.0   923.7  8029.0
GR 919.5  8152.0   916.2  8640.0   915.1  8999.0   916.8  9023.0   916.7  9798.0
GR 913.9  9815.0   913.5  9842.0   912.8 10000.0   917.6 10016.0   916.2 10201.0
GR 917.0 10263.0   917.7 10313.0   917.7 10385.0   925.2 10420.0   917.7 10455.0
GR 917.8 11076.0   920.3 11103.0   916.9 11133.0   916.4 11365.0   919.1 11391.0
GR 918.7 12229.0   918.8 12650.0   920.6 12691.0   919.8 12785.0   919.6 13644.0
GR 920.4 14355.0   921.0 16110.0   921.8 16630.0   922.9 17240.0   924.0 17640.0
HD 0.440     10    8029   10420
NC 0.034   0.040   0.042
X1 0.730    36.0    8340   12394    1565    1475    1510
GR 926.5  3285.0   926.3  3986.0   925.6  4737.0   925.2  5415.0   925.6  5760.0
GR 925.6  5797.0   925.7  5889.0   925.7  5945.0   924.5  6306.0   924.5  7206.0
GR 924.3  8340.0   921.6  8530.0   921.1  8982.0   919.1  8999.0   918.6  9126.0
GR 921.0  9195.0   920.0  9917.0   917.8  9927.0   917.9 10000.0   916.9 10087.0
GR 928.8 10162.0   919.2 10205.0   917.0 10479.0   919.8 10521.0   918.9 10591.0
GR 928.7 10655.0   919.2 10697.0   919.2 10771.0   922.2 10794.0   921.6 11725.0
GR 922.6 11783.0   924.5 12394.0   924.5 13563.0   924.0 14000.0   924.3 15050.0
GR 926.0   15560
HD 0.730     10    8340   12394
NC 0.040   0.042   0.043
X1 1.330    29.0    8038   10456    3405    3325    3385
GR 934.6  6000.0   933.3  6025.0   932.9  6490.0   931.0  6748.0   931.3  7154.0
GR 931.8  7239.0   933.2  7837.0   934.0  8038.0   931.1  8083.0   929.8  8339.0
GR 931.4  8777.0   929.3  8916.0   931.1  8945.0   929.8  9282.0   929.1  9911.0
GR 927.0 10000.0   925.9 10122.0   925.5 10364.0   932.0 10456.0   925.5 10490.0
GR 931.1 10701.0   931.6 11006.0   930.4 11242.0   934.9 11261.0   931.9 11306.0
GR 933.2 11377.0   934.8 11409.0   936.3 12061.0   941.3 12490.0
HD 1.330     10    8038   10456
NC 0.041   0.040   0.035
X1 1.710     44    9091 10284.4    2000    2585    2480
GR 940.9  5684.9   943.3  5808.0   945.3  6004.6   945.1  6078.9   947.4  6100.1
GR 947.4  6117.9   939.1  6148.7   948.7  6187.8   948.6  6226.4   934.0  6296.9
GR 936.8  6795.4   942.6  6807.8   942.6  6816.3   935.2  6833.2   933.6  7016.1
GR 935.7  7029.0   935.7  7052.6   932.4  7065.5   932.0  7135.0   934.3  7164.7
GR 934.3  7198.3   931.9  7209.5   934.6  7333.9   933.3  7541.5   933.4  7601.4
GR 936.1  7704.9   936.0  8010.3   935.3  8305.9   935.8  8591.1   935.4  8888.0
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GR 935.8  9091.0   933.0  9104.6   933.1  9230.9   931.1  9247.7   929.7  9534.8
GR 928.2  9542.9   928.2  9966.4   928.2 10000.0   930.4 10058.7   930.5 10277.8
GR 935.9 10284.4   941.2 10511.3   951.5 11351.7   952.3 11442.6
HD 1.710      10    9091 10284.4
NC 0.041   0.035   0.035
X1 2.020      31  8839.4 10077.3     890    2065    1965
GR 950.0  5981.1   948.6  6066.6   951.6  6121.6   954.7  6293.7   955.1  6434.3
GR 940.7  6514.7   939.9  6533.9   937.1  6557.3   936.4  6934.6   937.1  7244.1
GR 944.6  7260.1   944.6  7278.4   937.0  7304.1   936.3  7340.1   938.6  7388.3
GR 938.4  7687.8   936.3  7711.0   938.5  7824.6   938.8  7961.0   937.2  8390.4
GR 938.4  8544.9   938.1  8839.4   935.2  8854.5   935.2  9121.5   935.4  9418.2
GR 934.2  9860.0   932.7  9918.6   933.3 10000.0   934.5 10062.4   944.8 10077.3
GR 944.8 10079.1
HD 2.020      10  8839.4 10077.3
NC 0.045   0.031   0.036
X1 2.600      26    9437 10580.6    2700    2945    3320
GR 967.1  7292.0   967.4  7442.4   961.7  7739.8   957.5  7927.3   953.0  8217.8
GR 947.7  8560.5   944.7  8730.1   944.9  9057.3   944.8  9437.0   940.5  9449.9
GR 941.9  9684.7   939.6  9951.4   939.6 10000.0   939.6 10090.3   941.7 10102.7
GR 943.1 10322.7   940.5 10500.3   946.6 10580.6   946.6 10625.8   945.8 10652.9
GR 942.2 10671.4   943.4 10811.0   943.6 10850.0   944.8 11140.9   954.6 11152.0
GR 954.6 11164.0
HD 2.600      10    9437 10580.6
X1 2.800      19    8817   11222    1250     655    1000
GR 956.4  8817.0   952.8  8856.3   944.9  9060.9   943.4  9200.0   943.2  9214.4
GR 943.5  9447.6   942.0 10000.0   943.9 10091.2   943.9 10170.9   942.8 10185.3
GR 943.0 10439.2   945.6 10464.6   945.8 10582.0   943.7 10628.0   945.8 10774.1
GR 945.7 10820.4   942.3 10890.9   945.9 11203.4   956.6 11222.0
HD 2.800      10    8817   11222
X1 3.270      17  9692.6 11130.5    2800    1995    2505
GR 961.5  7808.3   958.3  8137.4   956.3  8362.4   953.4  9316.6   950.7  9692.6
GR 945.5  9724.1   944.5  9770.5   944.8 10000.0   944.8 10158.6   951.4 10188.1
GR 947.8 10278.9   948.5 10405.5   944.5 10606.9   944.5 10822.2   945.7 10915.2
GR 948.5 11116.0   960.5 11130.5
HD 3.270      10  9692.6 11130.5
X1 3.400      23  9760.9 10928.5     760     635     685
GR 961.9  7939.2   957.7  8317.0   955.0  9117.3   952.3  9683.9   952.0  9760.9
GR 945.4  9784.1   945.4 10000.0   945.4 10039.4   950.7 10054.0   951.3 10107.8
GR 953.0 10116.4   953.1 10158.4   951.2 10170.2   951.1 10228.2   945.2 10238.1
GR 945.1 10277.1   950.5 10294.4   948.9 10485.8   946.0 10546.7   949.6 10607.8
GR 950.1 10703.8   952.3 10913.8   963.2 10928.5
HD 3.400      10  9760.9 10928.5
X1 3.430      12  9654.5 10873.4     165     160     165
GR 961.5  7958.9   957.8  8287.1   956.3  8796.5   955.8  9654.5   953.0  9684.2
GR 952.8  9758.5   946.2  9788.6   946.0 10000.0   946.0 10271.7   951.1 10293.1
GR 951.1 10849.9   963.7 10873.4
HD 3.430      10  9654.5 10928.5
X1 3.729     6.0    9420   10603    1575    1585    1580
GR 972.0  9405.0   968.0  9420.0   952.2  9425.0   952.2 10588.0   967.2 10603.0
GR 967.2 10613.0
HD 3.729       0       0       0
X1 3.734    63.0  9400.9 10599.3      25      25      25
GR 972.4  9400.8   967.5  9400.9   952.3  9416.0   952.3  9422.1   952.3  9474.5
GR 952.3  9474.6   952.3  9481.6   952.3  9481.7   952.3  9554.7   952.3  9554.8
GR 952.3  9561.8   952.3  9561.9   952.3  9634.6   952.3  9634.7   952.3  9641.7
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GR 952.3  9641.8   952.3  9714.5   952.3  9714.6   952.3  9721.6   952.3  9721.7
GR 952.3  9794.7   952.3  9794.8   952.3  9801.8   952.3  9801.9   952.3  9874.9
GR 952.3  9875.0   952.3  9882.0   952.3  9882.1   952.3  9955.1   952.3  9955.2
GR 952.3  9962.2   952.3  9962.3   952.3 10034.9   952.3 10035.0   952.3 10042.0
GR 952.3 10042.1   952.3 10115.1   952.3 10115.2   952.3 10122.2   952.3 10122.3
GR 952.3 10194.8   952.3 10194.9   952.3 10201.9   952.3 10202.0   952.3 10275.0
GR 952.3 10275.1   952.3 10282.1   952.3 10282.2   952.3 10355.2   952.3 10355.3
GR 952.3 10362.3   952.3 10362.4   952.3 10434.9   952.3 10435.0   952.3 10442.0
GR 952.3 10442.1   952.3 10515.1   952.3 10515.2   952.3 10522.2   952.3 10522.3
GR 952.3 10585.2   967.6 10599.3   971.1 10599.4
HD 3.734       0       0       0
X1 3.757     7.0    9425   10555     120     120     120
GR 968.3  9400.0   966.5  9425.0   952.3  9454.0   952.4  9708.0   952.1 10000.0
GR 952.1 10538.0   967.7 10555.0
HD 3.757       0       0       0
X1 3.767      92  9428.1 10572.0      50      50      50
GR 970.9  9428.0   966.9  9428.1   952.9  9457.5   952.9  9457.6   952.9  9460.6
GR 952.9  9460.7   952.9  9492.4   952.9  9492.5   952.9  9498.5   952.9  9498.6
GR 952.9  9510.4   952.9  9510.5   952.9  9513.5   952.9  9513.6   952.9  9525.5
GR 952.9  9525.6   952.9  9528.6   952.9  9528.7   952.9  9540.4   952.9  9540.5
GR 952.9  9543.5   952.9  9543.6   952.9  9555.4   952.9  9555.5   952.9  9558.5
GR 952.9  9558.6   952.9  9570.4   952.9  9570.5   952.9  9573.5   952.9  9573.6
GR 952.9  9585.4   952.9  9585.5   952.9  9588.5   952.9  9588.6   952.9  9600.4
GR 952.9  9600.5   952.9  9625.0   952.9  9625.1   952.9  9761.9   966.1  9762.0
GR 966.1  9778.0   952.9  9778.1   952.9  9915.0   966.1  9915.1   966.1  9931.1
GR 952.9  9931.2   952.9 10068.9   966.1 10069.0   966.1 10085.0   952.9 10085.1
GR 952.9 10220.9   966.1 10221.0   966.1 10237.0   952.9 10237.1   952.9 10374.9
GR 952.9 10375.0   952.9 10400.2   952.9 10400.3   952.9 10410.9   952.9 10411.0
GR 952.9 10414.9   952.9 10415.0   952.9 10426.9   952.9 10427.0   952.9 10430.0
GR 952.9 10430.1   952.9 10441.8   952.9 10441.9   952.9 10444.9   952.9 10445.0
GR 952.9 10456.9   952.9 10457.0   952.9 10460.0   952.9 10460.1   952.9 10472.0
GR 952.9 10472.1   952.9 10475.1   952.9 10475.2   952.9 10486.9   952.9 10487.0
GR 952.9 10490.0   952.9 10490.1   952.9 10501.9   952.9 10502.0   952.9 10508.9
GR 952.9 10509.0   952.9 10540.8   952.9 10540.9   952.9 10543.9   952.9 10544.0
GR 967.2 10571.9   970.9 10572.0
HD 3.767       0       0       0
NC   .04    .045    .025
X1 4.094     7.0    9440   10578    1770    1760    1765
GR 973.3  9440.0   958.5  9465.0   958.5  9757.0   958.5 10000.0   958.5 10558.0
GR 973.0 10578.0   973.0 10582.0
HD 4.094      10    9440   10578
X1 4.270    15.0    9449   10588     925     925     925
GR 975.0  9440.0   974.9  9449.0   959.5  9466.0   958.0  9791.0   970.4  9807.0
GR 970.6  9818.0   968.3  9822.0   967.9  9877.0   971.5  9883.0   971.5  9891.0
GR 958.0  9910.0   957.1 10000.0   958.9 10317.0   959.7 10563.0   974.4 10588.0
HD 4.270      10    9449   10588
X1 4.700     9.0    9451   10579    2320    2180    2250
GR 978.4  9440.0   978.4  9451.0   961.5  9467.0   960.2  9774.0   959.1 10000.0
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NC   .04     .04    .022      .3       .5
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GR 975.5  9864.0    975.5   9981.0   974.0   9994.0   973.7  10030.0   973.7  10095.0
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GR1057.8    8799  1042.8    8825  1042.8    8830  1042.8    8880  1042.8    9800
GR1042.8    9825  1057.8    9851  1038.8    9937  1036.5   10000  1045.1   10102
GR1045.3   10148  1046.4   10178  1045.5   10236  1046.8   10287  1046.8   10389
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HD 11.01      10    8825    9825
NC 0.045   0.055   0.035     0.4     0.6
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X3    10
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GR1050.2    6573  1049.9    6724  1048.9    6894  1048.4    7061  1048.0    7226
GR1050.1    7357  1048.8    7509  1047.8    7702  1049.0    7871  1050.1    8017
GR1050.4    8177  1051.2    8348  1050.4    8493  1050.6    8658  1050.8    8828
GR1051.0    8974  1067.6    9095  1047.6    9121  1047.6   10000  1047.6   10121
GR1067.6   10147  1056.6   10178  1056.8   10295  1060.3   10368  1060.5   10482
GR1061.0   10597
HD 11.34      10    9121   10121
NC                    0.1     0.3
X1 11.52      31    9065   10117     980     980     980
X3    10
GR1052.4    5930  1052.0    5988  1055.4    6027  1050.7    6060  1051.7    6182
GR1051.2    6305  1051.9    6462  1050.8    6571  1050.9    6715  1051.0    6849
GR1051.8    6962  1048.2    7089  1050.0    7210  1050.4    7345  1050.6    7465
GR1050.4    7550  1050.8    7652  1052.4    7800  1052.6    7916  1051.9    7950
GR1051.9    8550  1049.5    8600  1070.4    9065  1050.4    9091  1050.4   10000
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GR1066.9   10534
HD 11.52      10    9091   10091
X1 11.80      41    9181   10233    1415    1415    1415
X3    10
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GR1051.8    5983  1051.7    5996  1056.2    6015  1056.2    6032  1056.5    6147
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GR1061.9    8139  1065.5    8163  1066.5    8224  1056.7    8280  1051.6    8480
GR1051.6    8950  1064.5    8998  1072.8    9070  1061.9    9175  1074.4    9181
GR1054.4    9207  1054.4    9300  1054.4    9400  1054.4    9500  1054.4   10000
GR1054.4   10207  1074.4   10233  1076.2   10302  1075.0   10388  1072.1   10447
GR1074.2   10502
HD 11.80      10    9207   10207
X1 12.38    23.0    9250   10302    2885    2885    2885
X3    10
GR1064.9  6240.0  1064.9  7002.0  1064.9  7519.0  1058.8  7538.0  1059.1  7761.0
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GR1077.0 10302.0  1072.6 10857.0  1078.2 11420.0
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X1 12.84    21.0    9156   10208    2490    2480    2485
X3    10
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GR1084.1 10208.0  1082.2 10255.0  1072.0 10289.0  1072.0 10425.0  1072.0 10999.0
GR1075.7 11200.0
HD 12.84      10    9182   10182
X1 13.33      72    9474   10526    2585    2585    2585
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GR1071.5 10385.5  1071.5 10485.6  1071.5 10490.4  1071.5 10495.0  1071.5 10500.0
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GR1071.5 10741.1  1086.4 10758.5  1093.0 10758.6  1092.8 10784.0  1090.0 10910.0
GR1090.1 11080.0  1088.0 11380.0  1090.4 11740.0  1096.7 12172.0  1097.3 12475.0
GR1099.6 12607.0  1100.0 13232.0
HD 13.33     10    9500   10500
NC  0.04   0.04    0.03
X1 13.81     30.0   7867   10525    2560    2560    2560
X3    10
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GR1084.8  7867.0  1080.5  8265.0  1080.5  8365.0  1080.5  8485.0  1080.5  9315.0
GR1080.5  9435.0  1080.5  9535.0  1081.5  9580.0  1078.6  9597.0  1078.6 10000.0
GR1078.4 10183.0  1082.8 10226.0  1080.2 10454.0  1085.1 10525.0  1087.0 10634.0
GR1099.6 10738.0  1095.4 10896.0  1096.7 11458.0  1099.1 11517.0  1099.1 11575.0
HD 13.81     10.0   8265   10454
X113.855     30.0   7867   10525     240     240     240
X3    10
GR1099.5  6280.0  1088.6  6333.0  1084.4  6543.0  1086.1  6895.0  1086.1  7105.0
GR1082.8  7145.0  1085.6  7198.0  1081.0  7254.0  1085.9  7285.0  1084.1  7601.0
GR1085.3  7867.0  1081.0  8265.0  1081.0  8365.0  1041.0  8485.0  1041.0  9315.0
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GR1100.1 10738.0  1095.9 10896.0  1097.2 11458.0  1099.6 11517.0  1099.6 11575.0
HD13.855     10.0   8265   10454
X1 14.38     36.0   8125   10691    2170    3125    2725
X3    10
GR1114.0  6715.0  1112.0  6750.0  1104.0  6765.0  1100.0  6790.0  1092.0  6830.0
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GR1085.4  8140.0  1085.4  8240.0  1045.4  8360.0  1045.4  9190.0  1085.4  9310.0
GR1085.4  9320.0  1085.4  9350.0  1085.4  9400.0  1085.4  9410.0  1089.1  9458.0
GR1088.0  9838.0  1084.4 10000.0  1084.4 10065.0  1092.0 10085.0  1092.6 10234.0
GR1090.5 10369.0  1086.9 10445.0  1087.3 10571.0  1097.0 10691.0  1098.7 11028.0
GR1096.0 11319.0  1096.0 11605.0  1098.6 11704.0  1102.9 12300.0  1105.5 12986.0
GR1107.2 13055.0
HD 14.38     10.0   8140   10571
X114.412     36.0   8125   10691     240     240     240
X3    10
GR1114.5  6715.0  1112.5  6750.0  1104.5  6765.0  1100.5  6790.0  1092.5  6830.0
GR1091.5  6950.0  1092.5  7095.0  1093.8  7380.0  1092.5  7990.0  1092.5  8125.0
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GR1088.5  9838.0  1084.9 10000.0  1084.9 10065.0  1092.5 10085.0  1093.1 10234.0
GR1091.0 10369.0  1087.4 10445.0  1087.8 10571.0  1097.5 10691.0  1099.2 11028.0
GR1096.5 11319.0  1096.5 11605.0  1099.1 11704.0  1103.4 12300.0  1106.0 12986.0
GR1107.7 13055.0
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HD14.412    10.0    8140   10571
X1 14.85    37.0    9106   10454    2050    2150    2190
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GR1112.3 14491.0  1113.0 14537.0
HD 14.85    10.0    9106   10454
X114.932    44.0    9140   11341     425     425     425
X3     10
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HD14.932    10.0    9207   10475
X1 14.94    44.0    9140   11341      45      45      45
X3     10
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GR1108.2 14521.0  1110.7 14669.0  1109.1 14693.0  1114.5 14821.0
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X3     10
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HD15.063    10.0    9332   10590
X115.303      41    9681   11192    1175    1175    1175
X3     10
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X1 15.32      41    9681   11192      90      90      90
X3    10
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NC   .04     .04     .03      .1      .3
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HD 15.51      10    9756   11854
X1 15.98    14.0    9825   10836    2425    2365    2395
X3    10
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X1 16.42      28  9776.8 10225.4    2185    2225    2215
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X116.446      64  9768.4 10241.0      95      95      95
X3    10
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GR1118.0 10196.4  1118.0 10196.5  1118.0 10209.3  1118.0 10209.4  1118.0 10211.9
GR1118.0 10212.0  1118.0 10225.2  1118.0 10225.3  1121.6 10227.9  1121.6 10228.0
```

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GR1131.7 10241.0  1134.7 10241.1  1133.9 10259.0  1132.0 10330.0
HD16.446      10  9768.4 10241.0
X1 16.45      31  9768.4 10820.4       20       20       20
X3    10
GR1149.6  7650.0  1147.3  8109.0  1144.8  8614.0  1141.7  9172.0  1136.7  9700.0
GR1139.0  9766.0  1130.0  9768.4  1110.0  9794.4  1110.0  9800.4  1110.0  9871.4
GR1110.0  9882.3  1110.0  9882.4  1110.0  9888.4  1110.0  9888.5  1110.0  9894.3
GR1110.0  9894.4  1110.0  9984.4  1110.0  9984.5  1110.0  9996.5  1110.0  9996.6
GR1110.0 10212.0  1110.0 10225.2  1110.0 10225.3  1110.0 10227.9  1110.0 10228.0
GR1110.0 10241.0  1110.0 10241.1  1110.0 10259.0  1110.0 10330.0  1110.0 10794.4
GR1130.0 10820.4
HD 16.45      10  9794.4 10794.4
NC          .040              0.1       0.3
X1 16.91    22.0     9758    10810     2515     2200     2440
X3    10
GR1157.2  8940.0  1156.2  9371.0  1149.0  9481.0  1137.0  9504.0  1153.3  9525.0
GR1154.0  9567.0  1131.4  9634.0  1153.1  9684.0  1137.1  9758.0  1117.1  9784.0
GR1117.1 10000.0  1117.1 10784.0  1137.1 10810.0  1126.5 11022.0  1126.6 11856.0
GR1127.0 12659.0  1127.0 12926.0  1124.0 12946.0  1124.0 13447.0  1124.0 13483.0
GR1121.7 13509.0  1131.2 13564.0
HD 16.91      10    9784    10784
NC  .045     .04
X1 17.38    30.0     9271    10323     2930     2140     2455
X3    10
GR1173.3  7910.0  1172.6  8368.0  1171.1  8528.0  1166.4  8562.0  1171.3  8593.0
GR1169.3  8760.0  1140.8  8931.0  1133.6  9233.0  1144.3  9271.0  1124.3  9297.0
GR1124.3  9845.0  1124.3  9863.0  1124.3 10000.0  1124.3 10297.0  1144.3 10323.0
GR1127.7 10427.0  1135.1 10670.0  1132.9 10799.0  1132.0 10805.0  1132.0 11178.0
GR1132.0 11531.0  1132.0 11610.0  1134.1 11796.0  1134.6 12108.0  1133.8 12513.0
GR1134.4 13146.0  1134.1 13870.0  1133.0 14530.0  1131.6 14592.0  1137.5 14638.0
HD 17.38      10    9297    10297
X1 17.76    33.0     9295    10347     2140     1900     1980
X3    10
GR1141.1  8240.0  1139.6  8320.0  1137.6  8483.0  1138.7  8742.0  1132.8  8767.0
GR1132.5  8796.0  1137.5  8819.0  1134.8  8919.0  1134.0  8995.0  1128.0  9034.0
GR1129.8  9054.0  1132.8  9095.0  1132.8  9158.0  1128.0  9273.0  1150.1  9295.0
GR1130.1  9321.0  1130.1  9539.0  1130.1  9703.0  1130.1  9724.0  1130.1  9779.0
GR1130.1  9833.0  1130.1 10000.0  1130.1 10109.0  1130.1 10321.0  1150.1 10347.0
GR1138.3 10431.0  1132.2 10463.0  1134.4 10767.0  1137.8 10792.0  1139.4 11097.0
GR1139.9 11982.0  1139.0 12635.0  1137.5 13350.0
HD 17.76      10    9321    10321
X1 18.24    28.0     9781    10843     2335     2690     2525
X3    10
GR1139.7  8800.0  1147.0  8886.0  1147.3  8934.0  1151.0  8949.0  1144.6  8972.0
GR1143.2  9072.0  1138.0  9076.0  1138.0  9198.0  1145.4  9204.0  1144.3  9676.0
GR1140.1  9693.0  1157.5  9781.0  1137.5  9817.0  1137.5 10000.0  1137.5 10046.0
GR1137.5 10063.0  1137.5 10302.0  1137.5 10346.0  1137.5 10430.0  1137.5 10817.0
GR1157.5 10843.0  1144.8 10869.0  1144.8 10927.0  1146.9 10964.0  1147.2 11153.0
GR1142.7 11242.0  1145.5 11290.0  1145.8 11340.0
HD 18.24      10    9817    10817
X1 18.92      27  9524.9 10576.9     3620     3800     3595
X3    10
GR1163.0  8060.0  1163.7  8254.0  1163.8  8693.0  1164.2  9148.0  1166.9  9325.0
GR1168.4  9434.5  1168.8  9447.5  1160.5  9447.6  1149.2  9457.6  1168.0  9524.9
GR1148.0  9550.9  1148.0  9573.3  1148.0  9573.4  1148.0  9691.8  1148.0 10000.0
```

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GR1148.0 10455.1  1148.0 10550.9  1168.0 10576.9  1172.0 10577.0  1171.9 10590.0
GR1169.2 10727.0  1173.6 11160.0  1176.2 11672.0  1178.3 12466.0  1178.9 12918.0
GR1179.6 13066.0  1178.6 13305.0
HD 18.92      10 9550.9 10550.9
NC  0.04    0.04    0.03      .1      .3
X1 19.44    40.0    9088   10140    2805    2795    2800
X3    10
GR1172.9  7491.0  1165.9  7506.0  1166.9  7595.0  1159.6  7627.0  1161.4  7731.0
GR1162.5  7859.0  1160.9  8000.0  1163.0  8172.0  1159.3  8229.0  1162.8  8307.0
GR1157.0  8510.0  1158.5  8795.0  1163.0  8849.0  1164.8  9063.0  1176.2  9088.0
GR1156.2  9114.0  1156.2  9574.0  1156.2  9628.0  1156.2  9684.0  1156.2  9781.0
GR1156.2  9881.0  1156.2 10114.0  1176.2 10140.0  1183.1 10174.0  1183.2 10319.0
GR1179.6 10437.0  1181.5 10531.0  1180.7 10572.0  1183.5 10645.0  1186.5 10961.0
GR1190.0 11422.0  1191.7 11525.0  1189.6 11691.0  1191.4 11816.0  1191.7 11982.0
GR1188.2 12154.0  1189.6 12309.0  1191.6 12445.0  1191.1 12623.0  1193.2 12818.0
HD 19.44      10    9114   10114
X1 19.89    33.0    8142   10997    2375    2375    2375
X3    10
GR1179.6  8142.0  1167.7  8170.0  1167.7  8313.0  1171.9  8461.0  1170.7  8537.0
GR1170.9  8940.0  1165.4  8978.0  1166.4  9173.0  1168.5  9498.0  1167.9  9844.0
GR1163.3  9930.0  1164.7 10000.0  1168.5 10067.0  1168.5 10231.0  1166.9 10267.0
GR1167.1 10344.0  1171.3 10381.0  1170.1 10742.0  1168.4 10791.0  1187.0 10886.0
GR1198.6 10997.0  1197.7 11072.0  1190.8 11136.0  1198.8 11190.0  1201.5 11346.0
GR1202.2 11679.0  1203.7 12153.0  1202.6 12468.0  1204.1 12707.0  1199.6 12868.0
GR1202.5 13091.0  1200.4 13148.0  1202.2 13477.0
HD 19.89      10    8142   10997
NC  0.04    0.04    0.03
X119.944    33.0    9474   10526     285     285     285
X3    10
GR1180.5  8142.0  1172.0  8142.0  1172.0  8259.0  1172.0  8304.0  1172.0  8839.0
GR1172.0  8884.0  1172.0  9400.0  1183.3  9474.0  1163.3  9500.0  1163.3  9844.0
GR1163.3  9930.0  1163.3 10000.0  1163.3 10067.0  1163.3 10231.0  1163.3 10267.0
GR1163.3 10500.0  1183.3 10526.0  1171.0 10742.0  1169.3 10791.0  1187.9 10886.0
GR1199.5 10997.0  1198.6 11072.0  1191.7 11136.0  1199.7 11190.0  1202.4 11346.0
GR1203.1 11679.0  1204.6 12153.0  1203.5 12468.0  1205.0 12707.0  1200.5 12868.0
GR1203.4 13091.0  1201.3 13148.0  1203.1 13477.0
HD19.944    10.0    9500   10500
X119.953    33.0  8141.9   10997      45      45      45
X3    10
GR1180.7  8142.0  1172.1  8142.0  1172.1  8259.0  1142.1  8304.0  1142.1  8837.0
GR1172.1  8884.0  1172.1  9610.0  1172.1  9620.0  1172.1  9626.0  1169.0  9844.0
GR1164.4  9930.0  1165.8 10000.0  1169.6 10067.0  1169.6 10231.0  1168.0 10267.0
GR1168.2 10344.0  1172.4 10381.0  1171.2 10742.0  1169.5 10791.0  1188.1 10886.0
GR1199.7 10997.0  1198.8 11072.0  1191.9 11136.0  1199.9 11190.0  1202.5 11346.0
GR1203.3 11679.0  1204.8 12153.0  1203.7 12468.0  1205.2 12707.0  1200.7 12868.0
GR1203.6 13091.0  1201.5 13148.0  1203.3 13477.0
HD19.953    10.0    8142   10886
X120.240    20.0    7901   10136  1565.0  1565.0  1565.0
X3    10
GR1185.7  7901.0  1177.3  7910.0  1177.3  8027.0  1147.3  8072.0  1147.3  9091.0
GR1177.3  9136.0  1177.3  9216.0  1174.5  9217.0  1171.9  9228.0  1172.7  9635.0
GR1170.9  9822.0  1173.2  9850.0  1172.5  9993.0  1171.0 10000.0  1175.4 10136.0
GR1174.1 10165.0  1172.8 10197.0  1172.9 10248.0  1175.8 10273.0  1176.0 10370.0
HD20.240    10.0    7910   10000
X1 20.55    18.0    8038   10218  1650.0  1650.0  1650.0
```

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X3    10
GR1190.5  8038.0  1182.7  8045.0  1182.7  8162.0  1152.7  8207.0  1152.7  9200.0
GR1152.7  9226.0  1182.7  9271.0  1182.7  9351.0  1178.9  9447.0  1178.4  9499.0
GR1179.7  9571.0  1179.5  9733.0  1177.0  9845.0  1174.7  9860.0  1174.3 10000.0
GR1175.8 10133.0  1232.3 10218.0  1232.8 10334.0
HD 20.55    10.0    8045   10133
X120.563    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1190.7  8038.0  1182.9  8045.0  1182.9  8162.0  1182.9  8207.0  1182.9  9200.0
GR1182.9  9226.0  1182.9  9271.0  1182.9  9351.0  1179.1  9447.0  1178.6  9499.0
GR1179.9  9571.0  1179.7  9733.0  1177.2  9845.0  1174.9  9860.0  1174.5 10000.0
GR1176.0 10133.0  1232.5 10218.0  1233.0 10334.0
HD20.563    10.0    8045   10133
X120.577    18.0    8038   10218    70.0    70.0    70.0
X3    10
GR1191.0  8038.0  1183.1  8040.0  1183.1  8157.0  1153.1  8202.0  1153.1  9221.0
GR1153.1  9221.0  1183.1  9266.0  1183.1  9346.0  1179.4  9447.0  1178.9  9499.0
GR1180.4  9571.0  1180.0  9733.0  1177.5  9845.0  1175.2  9860.0  1174.8 10000.0
GR1176.3 10133.0  1232.8 10218.0  1233.3 10334.0
HD20.577    10.0    8045   10133
X1 20.64    19.0    7780   10100   373.0   373.0   373.0
X3    10
GR1192.7  7780.0  1184.3  8000.0  1184.3  8117.0  1154.3  8162.0  1154.3  8500.0
GR1154.3  9100.0  1154.3  9181.0  1184.3  9226.0  1184.3  9306.0  1180.7  9342.0
GR1177.5  9353.0  1177.5  9415.0  1179.3  9582.0  1175.5  9686.0  1177.4  9835.0
GR1174.8 10000.0  1174.8 10037.0  1231.5 10100.0  1230.1 10302.0
HD 20.64    10.0    8000   10037
X120.657    24.0    7780   10100    90.0    90.0    90.0
X3    10
GR1193.0  7780.0  1181.1  8036.0  1186.4  8154.0  1184.7  8460.0  1184.6  8640.0
GR1184.6  8741.0  1154.6  8801.0  1154.6  8900.0  1154.6  8950.0  1154.6  9000.0
GR1154.6  9170.0  1154.6  9172.0  1184.6  9217.0  1184.6  9297.0  1181.0  9342.0
GR1177.8  9353.0  1177.8  9415.0  1179.6  9582.0  1175.8  9686.0  1177.7  9835.0
GR1175.1 10000.0  1175.1 10037.0  1231.8 10100.0  1230.4 10302.0
HD20.657    10.0    8000   10037
X1 20.92    27.0    8990   10707    1096    1096    1096
X3    10
GR1193.7  7924.0  1186.0  7956.0  1182.0  8088.0  1182.0  8276.0  1186.4  8301.0
GR1186.4  8561.0  1186.0  8587.0  1186.0  8811.0  1186.3  8931.0  1188.2  8990.0
GR1188.2  9091.0  1158.2  9151.0  1158.2  9300.0  1158.2  9522.0  1188.2  9567.0
GR1188.2  9647.0  1180.3  9704.0  1182.0  9870.0  1179.5 10000.0  1179.5 10060.0
GR1185.1 10092.0  1183.8 10370.0  1186.8 10452.0  1186.5 10542.0  1183.3 10586.0
GR1240.9 10707.0  1240.7 10888.0
HD 20.92    10.0    9091   10586
X120.933    27.0    8990   10707      70      70      70
X3    10
GR1193.9  7924.0  1186.2  7956.0  1182.2  8088.0  1182.2  8276.0  1186.6  8301.0
GR1186.6  8561.0  1186.2  8587.0  1186.2  8811.0  1186.5  8931.0  1188.4  8990.0
GR1188.4  9091.0  1188.4  9151.0  1188.4  9522.0  1188.4  9560.0  1188.4  9567.0
GR1188.4  9647.0  1180.4  9704.0  1182.2  9870.0  1179.7 10000.0  1179.7 10060.0
GR1185.3 10092.0  1184.0 10370.0  1187.0 10452.0  1186.7 10542.0  1183.5 10586.0
GR1241.1 10707.0  1240.9 10888.0
HD20.933    10.0    9091   10586
X1 21.01    26.0  8125.0 10446.0     110     380     360
GR1194.1  8125.0  1186.0  8152.0  1183.0  8281.0  1183.0  8354.0  1183.0  8562.0
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GR1186.1  8610.0  1186.0  8713.0  1186.0  8842.0  1186.0  8920.0  1188.6  9289.0
GR1187.1  9531.0  1180.1  9576.0  1179.8  9709.0  1179.3  9822.0  1181.8  9861.0
GR1182.1 10000.0  1182.1 10156.0  1185.3 10172.0  1185.8 10339.0  1183.7 10394.0
GR1189.0 10446.0  1185.7 10615.0  1188.3 10647.0  1186.1 11010.0  1243.3 11107.0
GR1242.4 11265.0
HD 21.01      10    8125   10446
X1 21.42      49.0  9359.0 10853.0    2190    2140    2165
GR1224.5  7114.0  1225.2  7218.0  1218.2  7416.0  1211.3  7456.0  1211.8  7527.0
GR1219.5  7559.0  1219.7  7707.0  1208.7  7951.0  1204.6  8154.0  1208.1  8189.0
GR1208.1  8209.0  1208.0  8232.0  1208.0  8599.0  1209.1  8617.0  1209.1  8642.0
GR1199.3  8734.0  1198.5  8868.0  1195.0  8887.0  1194.6  9028.0  1190.5  9053.0
GR1194.6  9239.0  1194.7  9359.0  1193.8  9582.0  1187.7  9597.0  1187.0 10000.0
GR1189.8 10017.0  1189.9 10056.0  1189.9 10192.0  1193.6 10204.0  1188.3 10227.0
GR1190.7 10561.0  1193.3 10574.0  1194.5 10853.0  1192.5 10888.0  1194.0 10931.0
GR1194.0 11080.0  1190.1 11202.0  1193.2 11246.0  1192.0 11311.0  1194.8 11366.0
GR1194.6 11690.0  1194.8 12000.0  1192.4 12026.0  1193.9 12051.0  1194.0 12458.0
GR1195.6 12730.0  1257.3 12864.0  1258.2 12903.0  1258.3 12958.0
HD 21.42      10  9359.0  10853
X121.500    40.0    8950   13033   450.0   470.0   460.0
X3    10
GR1226.8  7378.0  1227.3  7718.0  1213.9  7781.0  1215.0  7876.0  1212.3  8052.0
GR1208.6  8092.0  1205.7  8305.0  1203.6  8422.0  1209.3  8501.0  1209.3  8509.0
GR1209.3  8530.0  1209.7  8917.0  1209.7  8931.0  1209.7  8950.0  1197.1  9068.0
GR1197.0  9221.0  1192.6  9271.0  1195.2  9407.0  1189.2  9496.0  1188.4  9661.0
GR1190.7  9704.0  1190.9  9871.0  1188.2  9900.0  1188.2 10000.0  1188.1 10205.0
GR1195.6 10365.0  1195.6 10665.0  1195.7 10953.0  1195.0 11267.0  1191.5 11296.0
GR1193.8 11464.0  1198.2 11615.0  1198.2 11760.0  1198.2 12685.0  1198.2 12805.0
GR1196.2 12929.0  1199.0 12976.0  1220.6 13033.0  1258.7 13215.0  1259.5 13298.0
HD21.500    10.0    9068   12976
X121.523    40.0    8950   13033   120.0   120.0   120.0
X3    10
GR1227.0  7378.0  1227.5  7718.0  1214.1  7781.0  1215.2  7876.0  1212.5  8052.0
GR1208.8  8092.0  1205.9  8305.0  1203.8  8422.0  1209.5  8501.0  1209.5  8509.0
GR1209.5  8530.0  1209.9  8917.0  1209.9  8931.0  1209.9  8950.0  1197.3  9068.0
GR1197.2  9221.0  1192.8  9271.0  1195.4  9407.0  1189.4  9496.0  1188.6  9661.0
GR1190.9  9704.0  1191.1  9871.0  1188.4  9900.0  1188.4 10000.0  1188.3 10205.0
GR1195.8 10365.0  1195.8 10665.0  1195.9 10953.0  1195.2 11267.0  1191.7 11296.0
GR1198.4 11420.0  1198.4 11775.0  1158.4 11895.0  1158.4 12745.0  1198.4 12865.0
GR1198.4 12975.0  1199.2 12976.0  1220.8 13033.0  1258.9 13215.0  1259.7 13298.0
HD21.523    10.0    9068   12976
X121.657    40.0    8453   13966   710.0   710.0   710.0
X3    10
GR1228.9  8245.0  1228.5  8369.0  1222.9  8453.0  1206.8  8546.0  1204.1  8656.0
GR1202.5  8881.0  1204.0  8960.0  1204.0  8970.0  1204.0  8980.0  1204.0  8985.0
GR1204.0  9725.0  1191.2  9725.0  1191.2 10000.0  1191.2 10485.0  1191.2 10595.0
GR1193.6 10768.0  1198.6 10831.0  1198.0 11046.0  1198.1 11312.0  1197.2 11482.0
GR1193.8 11520.0  1196.5 11645.0  1199.8 11735.0  1199.8 11895.0  1159.8 12015.0
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GR1199.8 13360.0  1199.8 13410.0  1197.6 13424.0  1211.6 13471.0  1207.7 13489.0
GR1215.6 13552.0  1215.7 13730.0  1256.7 13966.0  1261.2 14034.0  1262.6 14154.0
HD21.657      10    8546   13730
X121.680    35.0    8453   13966   120.0   120.0   120.0
X3    10
GR1230.3  8245.0  1229.9  8369.0  1224.3  8453.0  1208.2  8546.0  1205.5  8656.0
GR1203.9  8881.0  1204.2  9040.0  1204.2  9698.0  1204.2  9735.0  1191.4  9735.0
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GR1151.4  9855.0  1151.4 10000.0  1151.4 10455.0  1191.4 10575.0  1191.4 10685.0
GR1195.0 10768.0  1200.0 10831.0  1199.4 11046.0  1199.5 11312.0  1198.6 11482.0
GR1195.2 11520.0  1200.0 11575.0  1200.0 11915.0  1160.0 12035.0  1160.0 12500.0
GR1160.5 13000.0  1160.0 13100.0  1160.0 13200.0  1160.0 13220.0  1200.0 13340.0
GR1200.0 13690.0  1217.1 13730.0  1258.1 13966.0  1262.6 14034.0  1264.0 14154.0
HD21.680      10    8546   13730
X1 21.76    32.0    8805   14570   460.0   460.0   460.0
X3    10
GR1228.1  8805.0  1209.5  8922.0  1206.3  9217.0  1205.1  9495.0  1205.1  9905.0
GR1192.3  9905.0  1152.3 10025.0  1152.3 10975.0  1192.3 11095.0  1192.3 11097.0
GR1192.3 11100.0  1192.3 11150.0  1192.3 11205.0  1196.1 11280.0  1200.8 11304.0
GR1201.2 11468.0  1198.4 11495.0  1196.6 11568.0  1199.8 11592.0  1200.9 11625.0
GR1200.9 12075.0  1160.9 12195.0  1160.9 13380.0  1200.9 13500.0  1200.9 13600.0
GR1200.9 13700.0  1200.9 14000.0  1200.9 14100.0  1212.1 14121.0  1217.0 14284.0
GR1266.1 14570.0  1266.3 14870.0
HD 21.76    10.0    8922   14284
X121.773    32.0    8805   14570    70.0    70.0    70.0
X3    10
GR1228.2  8805.0  1209.6  8922.0  1206.4  9217.0  1205.2  9570.0  1205.2  9887.0
GR1205.2  9925.0  1192.4  9925.0  1152.4 10045.0  1152.4 10100.0  1152.4 11030.0
GR1152.4 11040.0  1192.4 11160.0  1192.4 11270.0  1196.2 11280.0  1200.9 11304.0
GR1201.3 11468.0  1198.5 11495.0  1196.7 11568.0  1199.9 11592.0  1201.0 11695.0
GR1201.0 12095.0  1161.0 12215.0  1161.0 12500.0  1161.0 12600.0  1161.0 13000.0
GR1161.0 13400.0  1201.0 13520.0  1201.0 14080.0  1212.2 14121.0  1217.1 14284.0
GR1266.2 14570.0  1266.4 14870.0
HD21.773    10.0    8922   14284
X121.818    32.0    8805   14570   240.0   240.0   240.0
X3    10
GR1228.7  8805.0  1210.1  8922.0  1206.9  9217.0  1204.5  9660.0  1205.7  9750.0
GR1205.7  9887.0  1205.7  9955.0  1192.9  9955.0  1192.9 10000.0  1192.9 11405.0
GR1201.8 11468.0  1199.0 11495.0  1197.2 11568.0  1200.4 11592.0  1200.8 11813.0
GR1198.5 11871.0  1201.5 11930.0  1201.5 12155.0  1161.5 12275.0  1161.5 13460.0
GR1201.5 13580.0  1201.5 13600.0  1201.5 13650.0  1201.5 13700.0  1201.5 13800.0
GR1201.5 13860.0  1213.0 13935.0  1208.3 13964.0  1212.7 14121.0  1217.6 14284.0
GR1266.7 14570.0  1266.9 14870.0
HD21.818      10    8922   14284
X121.850    38.0    9103   14171   240.0   240.0   240.0
X3    10
GR1228.5  8864.0  1228.8  9103.0  1209.4  9236.0  1203.1  9631.0  1198.5  9642.0
GR1203.2  9657.0  1205.8  9889.0  1200.1  9897.0  1205.2  9912.0  1195.2  9929.0
GR1195.0 10000.0  1196.0 10233.0  1197.3 10589.0  1194.6 10792.0  1194.2 10911.0
GR1199.4 10957.0  1199.4 11055.0  1194.5 11148.0  1195.0 11307.0  1199.6 11368.0
GR1198.5 11501.0  1197.1 11565.0  1200.1 11584.0  1198.9 11922.0  1202.3 11936.0
GR1202.0 12115.0  1202.0 12225.0  1202.0 13645.0  1205.4 14048.0  1207.3 14059.0
GR1204.2 14073.0  1206.6 14116.0  1221.1 14171.0  1218.8 14273.0  1219.8 14518.0
GR1222.8 14881.0  1266.6 15134.0  1269.1 15377.0
HD21.850    10.0    9236   14116
X122.107    36.0    9978   14136  1230.0  1130.0  1380.0
X3    10
GR1237.5  9912.0  1236.3  9978.0  1198.6 10000.0  1198.7 10062.0  1203.4 10250.0
GR1204.2 10362.0  1201.7 10521.0  1204.3 10547.0  1201.7 10988.0  1198.2 11001.0
GR1199.0 11154.0  1200.8 11170.0  1200.8 12605.0  1200.8 12610.0  1200.8 12630.0
GR1200.8 12660.0  1206.8 13003.0  1206.0 13654.0  1206.4 14096.0  1215.2 14136.0
GR1210.7 14196.0  1219.7 14246.0  1216.7 14354.0  1221.4 14552.0  1222.4 14646.0
GR1217.1 14805.0  1222.4 14848.0  1220.2 15061.0  1221.8 15279.0  1228.4 15415.0
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GR1222.0 15582.0  1231.0 15653.0  1234.4 15743.0  1222.4 15855.0  1235.0 15980.0
GR1237.5 16037.0
HD22.107      10   10000   14096
X122.130    36.0    9978   14136   120.0   120.0   120.0
X3     10
GR1237.7  9912.0  1236.5  9978.0  1198.8 10000.0  1198.9 10062.0  1203.6 10250.0
GR1204.4 10362.0  1201.9 10521.0  1204.5 10547.0  1201.9 10988.0  1198.4 11001.0
GR1199.2 11154.0  1201.0 11280.0  1161.0 11555.0  1161.0 12545.0  1201.0 12640.0
GR1201.0 12770.0  1207.0 13003.0  1206.2 13654.0  1206.6 14096.0  1215.4 14136.0
GR1210.9 14196.0  1219.9 14246.0  1216.9 14354.0  1221.6 14552.0  1222.6 14646.0
GR1217.3 14805.0  1222.6 14848.0  1220.4 15061.0  1222.0 15279.0  1228.6 15415.0
GR1222.2 15582.0  1231.2 15653.0  1234.6 15743.0  1222.6 15855.0  1235.2 15980.0
GR1237.7 16037.0
HD22.130      10   10000   14096
X1 22.32    29.0    9946   13430    1005    1005    1005
X3     10
GR1241.3  9793.0  1238.4  9946.0  1201.1 10000.0  1201.2 10023.0  1202.2 10044.0
GR1206.6 10368.0  1206.6 10615.0  1203.2 10989.0  1201.0 10999.0  1201.1 11063.0
GR1203.0 11080.0  1202.0 11264.0  1207.5 11286.0  1207.6 11421.0  1204.2 11488.0
GR1205.5 11529.0  1203.0 11625.0  1203.0 11740.0  1163.0 12015.0  1163.0 12520.0
GR1203.0 12615.0  1203.0 12700.0  1203.0 12800.0  1203.0 12900.0  1203.0 13000.0
GR1203.0 13185.0  1208.9 13430.0  1208.0 14025.0  1217.2 14068.0
HD 22.32      10   10000   13185
X122.365    29.0    9946   13430     240     240     240
X3     10
GR1241.8  9793.0  1238.9  9946.0  1201.6 10000.0  1201.7 10023.0  1202.7 10044.0
GR1207.1 10368.0  1207.1 10615.0  1203.7 10989.0  1201.5 10999.0  1201.6 11063.0
GR1203.5 11080.0  1202.5 11264.0  1208.0 11286.0  1208.1 11421.0  1204.7 11488.0
GR1206.0 11529.0  1204.7 11586.0  1206.0 11657.0  1203.5 11700.0  1203.5 11815.0
GR1203.5 11900.0  1203.5 12000.0  1203.5 12500.0  1203.5 12575.0  1203.5 13000.0
GR1203.5 13255.0  1209.4 13430.0  1208.5 14025.0  1217.7 14068.0
HD22.365      10   10000   13255
NC 0.040   0.031   0.030
X1 22.79    27.0  9941.0 13467.0    2510    2335    2510
GR1251.9  9874.0  1251.2  9941.0  1209.1 10000.0  1209.1 10014.0  1209.9 10117.0
GR1211.7 10136.0  1212.4 10314.0  1210.0 10336.0  1214.5 10427.0  1214.0 10515.0
GR1215.9 10524.0  1215.4 10737.0  1215.1 11031.0  1211.7 11045.0  1212.9 11344.0
GR1214.9 11538.0  1213.6 11747.0  1215.3 12059.0  1214.6 12405.0  1211.6 12427.0
GR1212.7 12591.0  1213.1 12892.0  1212.6 13139.0  1215.3 13290.0  1219.1 13408.0
GR1224.9 13467.0  1229.4 13648.0
HD 22.79      10    9941   13467
NC 0.040   0.034   0.030
X1 23.35    43.0    9495   13860  2970.0  2570.0  2930.0
X3     10
GR1262.8  9454.0  1260.9  9495.0  1226.5  9564.0  1220.9  9575.0  1220.9  9775.0
GR1220.9  9800.0  1220.9  9900.0  1220.9  9950.0  1220.9  9960.0  1220.9  9980.0
GR1220.9 10000.0  1220.9 11265.0  1220.9 11315.0  1222.6 11442.0  1220.5 11450.0
GR1221.1 11694.0  1222.4 11718.0  1223.4 11842.0  1221.2 11990.0  1221.2 12330.0
GR1218.9 12354.0  1218.3 12523.0  1220.0 12540.0  1220.0 12590.0  1222.4 12612.0
GR1222.2 12920.0  1221.5 13110.0  1219.0 13123.0  1219.2 13202.0  1223.9 13219.0
GR1228.0 13780.0  1232.0 13850.0  1236.0 13860.0  1244.3 14238.0  1241.8 14464.0
GR1242.7 14758.0  1244.0 14959.0  1249.1 15014.0  1251.0 15184.0  1248.8 15245.0
GR1250.9 15333.0  1253.7 15578.0  1253.8 15753.0
HD 23.35      10    9564   13780
X123.365    43.0    9495   13860    80.0    80.0    80.0
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X3    10
GR1263.0  9454.0  1261.1  9495.0  1226.7  9564.0  1221.1  9590.0  1221.1  9790.0
GR1181.1  9870.0  1181.1  9967.0  1181.1 10000.0  1181.1 10400.0  1181.1 10500.0
GR1181.1 11160.0  1221.1 11280.0  1221.1 11300.0  1222.8 11442.0  1220.7 11450.0
GR1221.3 11694.0  1222.6 11718.0  1223.6 11842.0  1221.4 11990.0  1221.4 12330.0
GR1219.1 12354.0  1218.5 12523.0  1220.2 12540.0  1220.2 12590.0  1222.6 12612.0
GR1222.4 12920.0  1221.7 13110.0  1219.2 13123.0  1219.4 13202.0  1224.1 13219.0
GR1228.2 13780.0  1232.2 13850.0  1236.2 13860.0  1244.5 14238.0  1242.0 14464.0
GR1242.9 14758.0  1244.2 14959.0  1249.3 15014.0  1251.2 15184.0  1249.0 15245.0
GR1251.1 15333.0  1253.9 15578.0  1254.0 15753.0
HD23.365      10    9564   13780
X123.571    46.0    9401   13619  1085.0  1085.0  1085.0
X3    10
GR1266.0  9000.0  1268.4  9137.0  1257.4  9193.0  1266.9  9217.0  1267.2  9401.0
GR1227.0  9469.0  1225.8  9632.0  1223.7  9646.0  1224.4  9670.0  1224.4  9720.0
GR1224.4  9925.0  1184.4 10005.0  1184.4 10895.0  1224.4 11015.0  1224.4 11016.0
GR1224.4 11050.0  1224.4 11060.0  1224.4 11065.0  1224.5 11225.0  1225.5 11243.0
GR1222.0 11532.0  1225.5 11576.0  1223.9 11706.0  1221.8 11727.0  1223.0 11843.0
GR1222.7 11975.0  1224.5 11997.0  1225.2 12337.0  1225.6 12764.0  1222.0 12925.0
GR1222.0 12984.0  1226.8 13011.0  1228.2 13154.0  1234.7 13235.0  1234.7 13341.0
GR1239.9 13531.0  1246.7 13619.0  1245.8 13940.0  1246.0 14269.0  1249.9 14417.0
GR1247.4 14505.0  1249.0 14539.0  1247.2 14595.0  1251.2 14744.0  1255.0 14937.0
GR1255.5 15413.7
HD23.571      10    9469   13531
X123.694    51.0    8893   12851   650.0   650.0   650.0
X3    10
GR1265.2  8775.0  1264.5  8815.0  1256.5  8864.0  1259.1  8893.0  1229.1  8951.0
GR1227.9  9031.0  1228.1  9348.0  1228.0  9472.0  1226.0  9481.0  1226.0  9491.0
GR1229.2  9503.0  1226.4  9575.0  1226.4  9630.0  1186.4  9710.0  1186.4 10000.0
GR1186.4 10730.0  1226.4 10850.0  1226.4 10860.0  1226.4 10870.0  1226.4 10880.0
GR1226.4 10900.0  1228.5 11054.0  1226.0 11090.0  1226.1 11287.0  1228.9 11309.0
GR1228.3 11399.0  1227.0 11508.0  1228.1 11578.0  1225.4 11591.0  1225.6 11676.0
GR1227.0 11709.0  1224.6 11893.0  1228.3 11971.0  1228.3 12173.0  1227.3 12336.0
GR1224.3 12399.0  1224.1 12448.0  1226.2 12472.0  1225.3 12522.0  1237.9 12572.0
GR1238.2 12681.0  1241.5 12851.0  1237.2 12913.0  1248.3 13081.0  1245.1 13173.0
GR1253.6 13363.0  1254.9 13478.0  1252.6 13698.0  1250.9 14006.0  1255.5 14138.0
GR1255.7 14355.0
HD23.694      10    8951   12681
X123.851    39.0    8023   12101   830.0   830.0   830.0
X3    10
GR1266.2  7830.0  1269.7  7975.0  1256.0  8004.0  1260.7  8023.0  1231.6  8081.0
GR1229.9  8170.0  1231.8  8230.0  1230.0  8450.0  1230.0  8803.0  1232.3  8953.0
GR1228.9  9255.0  1228.9  9310.0  1228.9  9350.0  1228.9  9360.0  1228.9  9370.0
GR1188.9  9390.0  1188.9 10410.0  1228.9 10530.0  1228.9 10580.0  1231.1 10672.0
GR1230.7 10890.0  1227.7 10935.0  1227.8 11039.0  1231.3 11071.0  1231.3 11221.0
GR1229.7 11304.0  1229.6 11634.0  1228.4 11788.0  1231.5 11920.0  1235.6 11972.0
GR1234.8 12009.0  1251.9 12101.0  1249.5 12152.0  1251.1 12229.0  1248.5 12295.0
GR1253.8 12406.0  1258.1 12485.0  1258.9 12817.0  1258.6 12913.0
HD23.851      10    8081   12009
X123.874    39.0    8023   12101   120.0   120.0   120.0
X3    10
GR1266.5  7830.0  1270.0  7975.0  1256.3  8004.0  1261.0  8023.0  1231.9  8081.0
GR1230.2  8170.0  1232.1  8230.0  1230.3  8450.0  1230.3  8803.0  1232.6  8953.0
GR1229.3  9210.0  1229.3  9359.0  1229.3  9453.0  1229.3  9526.0  1229.3  9649.0
GR1229.3  9829.0  1229.3 10000.0  1229.3 10139.0  1229.3 10535.0  1231.7 10672.0
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GR1231.0 10890.0  1228.0 10935.0  1228.1 11039.0  1231.6 11071.0  1231.6 11221.0
GR1230.3 11304.0  1230.2 11634.0  1229.0 11788.0  1232.1 11920.0  1236.2 11972.0
GR1235.1 12009.0  1252.2 12101.0  1249.8 12152.0  1251.4 12229.0  1248.8 12295.0
GR1254.1 12406.0  1258.4 12485.0  1259.2 12817.0  1259.2 12913.0
HD23.874      10     8081    12009
NC 0.039   0.035    0.030
X124.070    38.0     7412    11352  1190.0  1190.0  1190.0
X3    10
GR1271.5  6780.0  1271.5  6834.0  1278.6  6951.0  1274.1  7084.0  1266.1  7294.0
GR1269.1  7360.0  1257.8  7389.0  1261.1  7412.0  1237.4  7448.0  1237.6  7632.0
GR1236.4  7917.0  1234.0  7951.0  1234.0  8168.0  1235.5  8321.0  1233.1  8484.0
GR1236.2  8719.0  1232.9  9065.0  1232.9  9195.0  1232.9  9275.0  1232.9  9500.0
GR1232.9 10000.0  1232.9 10215.0  1232.9 10335.0  1232.9 10385.0  1231.6 10523.0
GR1235.1 10578.0  1235.0 10867.0  1232.6 10889.0  1234.0 11244.0  1256.4 11352.0
GR1258.1 11503.0  1255.3 11711.0  1259.1 11799.0  1259.1 11910.0  1264.0 12010.0
GR1261.5 12338.0  1266.2 12431.0  1266.3 12513.0
HD24.070      10     7448    11244
X124.085    38.0     7412    11352    80.0    80.0    80.0
X3    10
GR1271.7  6780.0  1271.7  6834.0  1278.8  6951.0  1274.3  7084.0  1266.3  7294.0
GR1269.3  7360.0  1258.0  7389.0  1261.3  7412.0  1237.6  7448.0  1237.8  7632.0
GR1236.6  7917.0  1234.2  7951.0  1234.2  8168.0  1235.7  8321.0  1233.3  8484.0
GR1236.4  8719.0  1233.1  9035.0  1233.1  9165.0  1233.1  9170.0  1233.1  9200.0
GR1193.1  9245.0  1193.1 10185.0  1233.1 10305.0  1233.1 10355.0  1231.8 10523.0
GR1235.3 10578.0  1235.2 10867.0  1232.8 10889.0  1234.2 11244.0  1256.6 11352.0
GR1258.3 11503.0  1255.5 11711.0  1259.3 11799.0  1259.3 11910.0  1264.2 12010.0
GR1261.7 12338.0  1266.4 12431.0  1266.5 12513.0
HD24.085      10     7448    11244
X1 24.17    22.0     7030    11239    280.0    280.0    280.0
X3    10
GR1275.7  6980.0  1273.8  7030.0  1244.2  7139.0  1238.7  7349.0  1239.8  7578.0
GR1236.5  7944.0  1236.3  8335.0  1236.8  8612.0  1233.9  8970.0  1233.9  9100.0
GR1193.9  9180.0  1193.9 10000.0  1193.9 10120.0  1233.9 10240.0  1233.9 10250.0
GR1233.9 10290.0  1233.1 10461.0  1233.8 10753.0  1235.2 11028.0  1235.3 11193.0
GR1240.4 11239.0  1240.6 11279.0
HD 24.17      10     7139    11193
X124.193    22.0     7030    11239    120.0    120.0    120.0
X3    10
GR1276.1  6980.0  1274.2  7030.0  1244.6  7139.0  1239.1  7349.0  1240.2  7578.0
GR1236.9  7944.0  1236.7  8335.0  1237.2  8612.0  1234.3  8970.0  1234.3  9100.0
GR1234.3  9180.0  1234.3 10000.0  1234.3 10120.0  1234.3 10240.0  1234.3 10250.0
GR1234.3 10290.0  1233.5 10461.0  1234.2 10753.0  1235.6 11028.0  1235.7 11193.0
GR1240.8 11239.0  1241.0 11279.0
HD24.193      10     7139    11193
NC 0.040   0.034    0.030
X1 24.35    32.0     7383    11392      945      945      945
X3    10
GR1280.9  7170.0  1276.9  7277.0  1256.6  7383.0  1264.0  7450.0  1246.8  7565.0
GR1247.2  7627.0  1244.2  7704.0  1247.3  7800.0  1243.9  7939.0  1239.6  7961.0
GR1238.3  8358.0  1239.2  8768.0  1241.1  9067.0  1241.0  9317.0  1237.1  9475.0
GR1237.1  9605.0  1237.1  9685.0  1237.1  9893.0  1237.1 10000.0  1237.1 10174.0
GR1237.1 10201.0  1237.1 10300.0  1237.1 10795.0  1238.7 10825.0  1237.1 11179.0
GR1236.3 11345.0  1264.9 11392.0  1264.2 11635.0  1263.8 11839.0  1273.2 11913.0
GR1273.1 12061.0  1269.2 12083.0
HD 24.35      10     7450    11345
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X124.365    32.0    7383   11392      80      80      80
X3    10
GR1281.1  7170.0  1277.1  7277.0  1256.8  7383.0  1264.2  7450.0  1247.0  7565.0
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GR1238.5  8358.0  1239.4  8768.0  1241.3  9067.0  1241.2  9317.0  1237.3  9470.0
GR1237.3  9600.0  1197.3  9680.0  1197.3  9893.0  1197.3 10000.0  1197.3 10174.0
GR1197.3 10620.0  1237.3 10740.0  1237.3 10790.0  1238.9 10825.0  1237.3 11179.0
GR1236.5 11345.0  1265.1 11392.0  1264.4 11635.0  1264.0 11839.0  1273.4 11913.0
GR1273.3 12061.0  1269.4 12083.0
HD24.365      10    7450   11345
X124.468    33.0    7430   11477   545.0   545.0   545.0
X3    10
GR1289.3  6781.0  1285.1  6824.0  1259.6  6899.0  1260.2  7000.0  1258.5  7099.0
GR1263.1  7113.0  1259.2  7127.0  1263.5  7145.0  1254.3  7192.0  1255.3  7240.0
GR1250.7  7387.0  1255.5  7430.0  1248.7  7784.0  1242.7  7806.0  1241.8  8182.0
GR1239.8  8201.0  1240.8  8227.0  1242.2  8577.0  1243.3  9103.0  1240.5  9202.0
GR1242.7  9277.0  1238.9  9350.0  1238.9  9480.0  1198.9  9560.0  1198.9 10500.0
GR1238.9 10620.0  1238.9 10670.0  1240.6 10799.0  1241.7 11004.0  1238.6 11184.0
GR1236.8 11422.0  1265.0 11477.0  1265.3 11540.0
HD24.468      10    7784   11422
X124.491    33.0    7430   11477   120.0   120.0   120.0
X3    10
GR1289.6  6781.0  1285.4  6824.0  1259.9  6899.0  1260.5  7000.0  1258.8  7099.0
GR1263.4  7113.0  1259.5  7127.0  1263.8  7145.0  1254.6  7192.0  1255.6  7240.0
GR1251.0  7387.0  1255.8  7430.0  1249.0  7784.0  1243.0  7806.0  1242.1  8182.0
GR1240.1  8201.0  1241.1  8227.0  1242.5  8577.0  1243.6  9103.0  1240.8  9202.0
GR1243.0  9277.0  1239.3  9350.0  1239.3  9480.0  1239.3  9560.0  1239.3 10500.0
GR1239.3 10620.0  1239.3 10670.0  1240.9 10799.0  1242.0 11004.0  1238.9 11184.0
GR1237.1 11422.0  1265.3 11477.0  1265.6 11540.0
HD24.491      10    7784   11422
X1 24.54    36.0  9240.0 10227.0     135     395     235
GR1282.4  7259.0  1277.8  7423.0  1258.4  7466.0  1263.6  7490.0  1246.5  7527.0
GR1245.6  7636.0  1243.2  7946.0  1243.5  8106.0  1243.4  8353.0  1243.6  8697.0
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GR1243.1 11501.0  1241.6 11750.0  1239.2 11764.0  1239.1 11816.0  1276.1 11876.0
GR1278.6 12013.0
HD 24.54      10    9240   10227
NC 0.030   0.030   0.030
X1 24.90    43.0  9334.0 11529.0    2055    1850    1905
GR1258.9  7820.0  1255.0  7838.0  1251.6  8006.0  1249.7  8269.0  1253.4  8308.0
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HD 24.90      10    9334   11529
NC 0.040   0.040   0.030
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GR1364.9  9300.0  1263.8  9366.0  1265.3  9414.0  1264.5  9459.0  1260.5  9477.0
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GR1282.4 11916.0  1285.6 12047.0  1279.8 12169.0  1289.6 12311.0  1289.6 12356.0
GR1293.3 12435.0  1288.6 12562.0  1293.2 12628.0  1293.1 12768.0  1285.7 12846.0
GR1286.6 12867.0  1286.0 12884.0  1295.4 12994.0  1287.3 13095.0  1291.8 13151.0
GR1293.1 13301.0
HD 25.37      10    9459   11916
X1 25.59      14    9685   11070    1065    1230    1125
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GR1256.5 10000.0  1260.0 10100.0  1261.5 10530.0  1261.0 10875.0  1264.0 11025.0
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HD 25.59      10    9685   11070
NC  .040   .040   .030
X1 25.86      25    8220   10215    1425    1495    1455
GR1300.0  7650.0  1280.0  7740.0  1276.0  7750.0  1272.0  8220.0  1268.0  8300.0
GR1267.5  8340.0  1268.0  8395.0  1270.8  8500.0  1268.0  8615.0  1267.6  8690.0
GR1268.0  8795.0  1268.0  8960.0  1269.0  9060.0  1268.0  9190.0  1265.6  9335.0
GR1266.0  9600.0  1268.0  9740.0  1268.0  9820.0  1264.0  9940.0  1260.0  9950.0
GR1260.0 10055.0  1264.0 10200.0  1280.0 10215.0  1280.0 10300.0  1284.0 10340.0
HD 25.86      10    8220   10215
NC  .041   .041   .033
X1 26.29    26.0    8722   11227    2090    2295    2240
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GR1271.6 10000.0  1273.7 10084.0  1278.8 10120.0  1278.2 10393.0  1278.4 10757.0
GR1275.0 11021.0  1273.9 11201.0  1279.2 11227.0  1276.8 11724.0  1278.8 11784.0
GR1280.5 12462.0  1281.9 12794.0  1279.6 12804.0  1312.6 12882.0  1311.4 13079.0
GR1312.6 13190.0
HD 26.29      10    8722   11227
X1 26.73    30.0    9720   11263    2320    2310    2330
GR1312.2  9355.0  1313.9  9457.0  1289.8  9540.0  1287.5  9720.0  1282.4  9755.0
GR1285.6  9834.0  1280.7  9898.0  1279.8 10000.0  1279.9 10364.0  1283.4 10385.0
GR1283.4 10521.0  1280.9 10543.0  1283.2 10628.0  1285.7 11057.0  1287.2 11263.0
GR1286.8 11621.0  1286.8 13292.0  1287.3 13590.0  1290.5 13648.0  1286.3 13673.0
GR1302.5 13759.0  1293.3 13811.0  1295.0 13870.0  1317.7 13944.0  1310.7 13981.0
GR1332.7 14126.0  1350.7 14161.0  1350.7 14176.0  1346.0 14188.0  1346.0 14190.0
HD 26.73      10    9720   11263
NC  .048   .043   .035
X1 27.03    23.0    9679   10553    1660    1020    1590
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GR1288.9 10450.0  1290.7 10553.0  1288.0 10732.0  1291.0 10749.0  1291.0 11081.0
GR1291.4 12573.0  1293.7 12649.0  1291.4 12657.0  1301.2 12783.0  1303.3 12821.0
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HD 27.03      10    9679   10553
NC  .040   .040   .035
X1 27.68    35.0    8224   10125    4120    3200    3430
GR1310.1  7060.0  1305.9  7509.0  1301.3  7550.0  1302.2  7781.0  1301.9  8224.0
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HD 27.68      10    8224   10125
X1 28.12    27.0    9108   10107    2360    2375    2355
GR1357.3  8340.0  1355.3  8384.0  1323.5  8506.0  1320.1  8630.0  1313.6  8697.0
GR1309.5  8719.0  1311.3  8878.0  1311.1  9108.0  1307.8  9129.0  1307.5  9182.0
GR1310.6  9258.0  1308.2  9300.0  1310.5  9411.0  1308.6  9524.0  1306.6  9675.0
GR1304.9  9906.0  1304.6 10000.0  1304.6 10076.0  1310.3 10107.0  1310.7 10411.0
GR1306.3 10527.0  1307.3 10680.0  1308.6 10781.0  1308.5 10866.0  1310.8 10916.0
GR1312.7 11051.0  1314.2 11435.0
HD 28.12      10    9108   10107
X1 28.67    36.0    9950   11203    2785    2925    2885
GR1372.7  9450.0  1371.0  9866.0  1311.5  9964.0  1312.2 10000.0  1312.2 10192.0
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HD 28.67      10    9950   11203
NC  .042    .042    .035
X1 29.04    33.0    9808   10638    2100    1270    1975
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GR1317.2 10000.0  1317.2 10048.0  1322.9 10073.0  1324.3 10239.0  1324.4 10414.0
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GR1357.1 13668.0  1357.5 13697.0  1379.5 13780.0
HD 29.04      10    9808   10638
X1 29.54    29.0    9198   10150    2750    2235    2640
GR1378.7  9025.0  1375.5  9068.0  1350.7  9135.0  1348.6  9179.0  1332.4  9217.0
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GR1332.9  9782.0  1332.2  9846.0  1327.0  9882.0  1326.7 10000.0  1326.7 10116.0
GR1340.7 10150.0  1343.0 10343.0  1346.5 10482.0  1348.3 10927.0  1347.8 11457.0
GR1349.2 11687.0  1354.2 11697.0  1354.2 11723.0  1345.8 11737.0  1345.8 11763.0
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HD 29.54      10    9198   10150
X129.611    31.0    9052   10244     315     315     375
X3    10
GR1377.8  8825.0  1353.2  9052.0  1337.2  9136.0  1336.3  9285.0  1332.4  9541.0
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HD29.611      10    9052   10244
X1 29.80    16.0    9347   10610    1295    1340    1400
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GR1337.6 10205.0  1337.6 10215.0  1327.7 10335.0  1336.3 10521.0  1344.4 10610.0
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HD 29.80      10    9347   10610
X1 30.07    17.0    9604   10306    1425    1440    1420
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GR1335.0 10060.0  1344.5 10098.0  1343.6 10114.0  1336.6 10132.0  1334.0 10261.0
GR1365.9 10306.0  1365.0 10356.0
HD 30.07      10    9604   10306
X1 30.26    12.0    9711   10643     870    1090    1005
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GR1341.7 10314.0  1347.9 10338.0  1348.7 10444.0  1341.6 10545.0  1341.7 10604.0
GR1363.6 10643.0  1389.4 10743.0
HD 30.26      10    9711   10643
NC 0.043   0.043   0.045
X1 30.82    12.0    9865   11244    2955    2840    2960
GR1378.3  9630.0  1379.5  9833.0  1375.4  9865.0  1345.2  9924.0  1346.7 10000.0
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HD 30.82      10    9865   11244
NC 0.043   0.043   0.037
X1 31.39    17.0    9470   10633    2900    3165    2970
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HD 31.39      10    9470   10633
X1 31.86    10.0    9490   10321    2550    2485    2505
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HD 31.86      10    9490   10321
NC 0.043   0.052   0.040
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GR1372.6  9692.0  1375.5  9852.0  1373.4  9965.0  1370.7 10000.0  1372.7 10073.0
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NC  .049    .049    .042
X1 32.86    12.0    9719   10564    2405    2135    2295
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GR1374.9 10000.0  1380.6 10079.0  1386.5 10155.0  1382.6 10239.0  1386.6 10279.0
GR1385.4 10331.0  1421.4 10564.0
HD 32.86      10    9719   10564
NC  .047    .055    .032
X132.984      33    9750   10150     648     648     648
GR1427.7  9750.0  1425.2  9750.1  1391.6  9820.0  1391.6  9823.0  1391.6  9823.1
GR1389.7  9833.0  1389.7  9833.1  1389.7  9837.0  1385.5  9851.0  1384.0  9900.0
GR1385.8  9904.0  1385.8  9909.0  1385.8  9909.1  1386.6  9919.0  1386.6  9919.1
GR1386.6  9962.0  1380.0  9985.0  1380.0  9985.1  1380.0  9995.0  1380.0  9995.1
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GR1387.9 10065.0  1387.9 10065.1  1390.7 10075.0  1390.7 10075.1  1392.3 10091.0
GR1423.8 10150.0  1426.0 10150.0  1427.0 10150.1
HD32.984      10    9750   10150
X132.998     9.0    9762   10164      72      72      72
GR1434.1  9610.0  1433.1  9762.0  1389.0  9851.0  1386.3  9920.0  1381.4 10000.0
GR1393.1 10108.0  1413.1 10164.0  1417.9 10358.0  1440.7 10405.0
HD32.998      10    9762   10164
NC  .060    .050    .050
X1 33.41    12.0    9750   10687    1880    2270    2170
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GR1448.1  9750.0  1426.7  9864.0  1408.3  9944.0  1386.9 10000.0  1389.1 10157.0
GR1406.8 10366.0  1404.5 10483.0  1409.5 10576.0  1422.7 10626.0  1423.4 10668.0
GR1433.5 10685.0  1437.7 10687.0
HD 33.41      10    9750   10687
X1 33.82    20.0    9565   10600    2165    2220    2175
GR1454.2  9465.0  1454.2  9506.0  1434.5  9527.0  1434.5  9538.0  1450.5  9565.0
GR1408.8  9662.0  1402.1  9714.0  1409.2  9795.0  1417.1  9861.0  1387.4  9966.0
GR1387.4 10000.0  1387.4 10023.0  1405.9 10068.0  1408.6 10117.0  1426.7 10204.0
GR1425.4 10292.0  1433.9 10347.0  1428.1 10416.0  1427.2 10466.0  1450.9 10600.0
HD 33.82      10    9565   10600
EJ
T4     AGUA FRIA RIVER SEDIMENT TRANSPORT STUDY - SEPTEMBER-AUGUST 1992 PROJECT
T5                     RIVER COVERAGE [MILE 0.16 TO MILE 33.82]
T6                        PREPARED BY: CARLOS CORTEZ CARRIAGA
T7                              UPDATED ON:  MAY 15, 1992
T8      **************************************************************************
I1              10       0       0   0.999  32.174
I4               9       1      10    2.65       0       0       0       0       0
I5              .5      .5     .25      .5     .25       0     1.0
LQ       Q    0.01   4000.  20000.  40000.  60000.  85000.
LT      QS    0.01   3082.  26604.  56358.  97056. 155824.
LF     VFS 0.22029 0.22029 0.12021 0.13469 0.14318 0.15286
LF      FS 0.25878 0.25878 0.16975 0.17708 0.18245 0.19324
LF      MS 0.29170 0.29170 0.24375 0.24027 0.23890 0.24338
LF      CS 0.11476 0.11476 0.15675 0.15080 0.14942 0.14791
LF     VCS 0.07028 0.07028 0.11014 0.10377 0.09976 0.09368
LF     VFG 0.02171 0.02171 0.03701 0.03411 0.03186 0.02874
LF      FG 0.01800 0.01800 0.04091 0.03755 0.03478 0.03086
LF      MG 0.00371 0.00371 0.05344 0.04986 0.04666 0.04150
LF      CG 0.00053 0.00053 0.04486 0.04408 0.04277 0.03878
LF     VCG 0.00031 0.00031 0.02318 0.02779 0.03022 0.02905
N   0.160           0.20997 0.20997 0.88000         0.02466 0.12840 0.13531 0.25571
N         0.18617 0.04051 0.03702 0.03594 0.03394 0.00000
N   0.440           0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   0.730           0.20997 0.04092 0.95000         0.00619 0.05233 0.26511 0.22718
N         0.25582 0.04189 0.06446 0.04827 0.03000 0.00709
N   1.330           0.20997 0.04955 0.95000         0.00445 0.04807 0.21089 0.19967
N         0.25404 0.07425 0.08617 0.07712 0.03894 0.00572
N   1.710           0.20997 0.18396 0.95000         0.00700 0.04540 0.14795 0.11933
N         0.15362 0.07149 0.12617 0.08131 0.08552 0.15721
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N         0.16886 0.02633 0.02404 0.01785 0.01963 0.00396
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N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
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N         0.14574 0.03833 0.14045 0.02120 0.02732 0.02528
N   3.430           0.20997 0.10348 0.95000         0.01346 0.07803 0.31326 0.16399
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N         0.00000 0.00000 0.00000 0.00000 0.00000 1.00000
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N         0.14615 0.06611 0.11566 0.13843 0.11113 0.06927
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N 27.680          0.20997 0.14198 0.95000           0.00292 0.02270 0.13383 0.11664
N         0.15213 0.06945 0.13230 0.13219 0.12590 0.10907
N 28.120          0.20997 0.20569 0.90000           0.00648 0.01875 0.05408 0.06661
N         0.17370 0.10358 0.10459 0.11172 0.11185 0.14004
N 28.670          0.20997 0.05813 0.95000           0.02020 0.07270 0.16705 0.19299
N         0.29376 0.07498 0.06550 0.04880 0.03996 0.01606
N 29.040          0.20997 0.17791 0.95000           0.00510 0.00977 0.02614 0.06339
N         0.12227 0.10953 0.11622 0.16800 0.19067 0.18308
N 29.540          0.20997 0.20519 0.90000           0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.611          0.20997 0.20519 0.90000           0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 29.800          0.20997 0.20519 0.90000           0.00024 0.00037 0.00154 0.00178
N         0.00248 0.00436 0.01344 0.04891 0.22294 0.61864
N 30.070          0.20997 0.19118 0.95000           0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
```

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N 30.260          0.20997 0.19118 0.95000          0.01550 0.03290 0.10062 0.13788
N         0.20511 0.07374 0.08796 0.06193 0.07095 0.18332
N 30.820          0.20997 0.19285 0.95000          0.00421 0.00920 0.03670 0.07932
N         0.14957 0.08938 0.09220 0.11904 0.13559 0.27578
N 31.390          0.20997 0.07865 0.95000          0.00136 0.00317 0.04678 0.16566
N         0.32156 0.13746 0.15154 0.08637 0.05093 0.03300
N 31.860          0.20997 0.18391 0.95000          0.04180 0.03453 0.07407 0.10225
N         0.16518 0.07265 0.11009 0.06917 0.07639 0.15569
N 32.430          0.20997 0.16079 0.82061          0.00634 0.00913 0.01982 0.04061
N         0.07617 0.04604 0.20933 0.08932 0.14784 0.16079
N 32.860          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.984          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 32.998          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.410          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
N 33.820          0.20997 0.19086 0.95000          0.00264 0.00920 0.02984 0.04337
N         0.07199 0.04487 0.08026 0.16603 0.24082 0.30771
$LOCAL
LQL     Q   000.1   1000.   5000.  10000.
LTL    QS   000.1   1094.   6855.  16015.
LFL   VFS 0.28256 0.28256 0.25945 0.28352
LFL    FS 0.43291 0.43291 0.40442 0.37836
LFL    MS 0.14372 0.14372 0.16223 0.16477
LFL    CS 0.10623 0.10623 0.11610 0.11564
LFL   VCS 0.03200 0.03200 0.04974 0.04723
LFL   VFG 0.00126 0.00126 0.00559 0.00589
LFL    FG 0.00076 0.00076 0.00197 0.00380
LFL    MG 0.00056 0.00056 0.00028 0.00067
LFL    CG 0.00000 0.00000 0.00022 0.00012
LFL   VCG 0.00000 0.00000 0.00000 0.00000
$HYD
$RATING
RC            19    5000    4000 913.885   0.000   1.086   2.048   2.896   3.638
RC         4.286   4.848   5.334   5.755   6.119   6.436   6.716   6.969   7.204
RC         7.432   7.661   7.902   8.164   8.456
$B             2
$KL
*       TIME DURATION 1 - HYDROGRAPH 1
Q 22500.   1250.
T    60.     60.
X              0.1     1.8
*       TIME DURATION 2 - HYDROGRAPH 1
Q 22500.   1250.
W   0.05
*       TIME DURATION 3 - HYDROGRAPH 1
Q 45000.   2500.
X              0.1     1.3
*       TIME DURATION 4 - HYDROGRAPH 1
Q 45000.   2500.
W   0.09
*       TIME DURATION 5 - HYDROGRAPH 1
Q 67500.   3750.
```

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X             0.1     0.9
*       TIME DURATION 6 - HYDROGRAPH 1
Q 67500.    3750.
W  0.025
*       TIME DURATION 7 - HYDROGRAPH 1
Q 90000.    5000.
X             0.1     0.4
*       TIME DURATION 8 - HYDROGRAPH 1
Q 90000.    5000.
W 0.0625
*       TIME DURATION 9 - HYDROGRAPH 1
Q 67500.    3750.
X             0.1     0.9
*       TIME DURATION 10 - HYDROGRAPH 1
Q 67500.    3750.
W  0.025
*       TIME DURATION 11 - HYDROGRAPH 1
Q 45000.    2500.
X             0.1     1.3
*       TIME DURATION 12 - HYDROGRAPH 1
Q 45000.    2500.
W   0.09
*       TIME DURATION 13 - HYDROGRAPH 1
Q 22500.    1250.
X             0.1     1.8
*    B  TIME DURATION 14 - HYDROGRAPH 1
Q 22500.    1250.
W   0.05
$$END
```