

EXHIBIT 13

Waiver Request of Section 74.1204

Olympia, WA K201EM minor displacement channel change 209

99 watts ERP

Calvary Chapel of Twin Falls, Inc. 8/2011

The proposed site is contained entirely inside the Application of second-adjacent FM Station KAOS Olympia, WA

NOTE: This application is proposed on an existed FCC ASR Registered AM Tower using a CA-2V directed to 260 degrees true north.

KAOS

The proposed site is contained entirely inside the service contour of the second-adjacent KAOS, 207A, 1.25 kW, Olympia, WA. The level of least arriving protected F(50,50) signal at the proposed transmitter site 74.7-dBu and using the U/D method for calculating proposed interference, the interfering contour is 114.7-dBu. The interfering signal would, in the worst case at the maximum radial extend 131 meters or 429 feet from the center of radiation, which is proposed at 113 meters AGL. The interference contour touches the ground at 225 feet from the base of the tower (see ground plane). Attached is a portion of the USGS Lacey (WA) Quadrangle map showing a 225 foot contour around the base of the tower, marked in yellow. Also attached is a Google Earth view of the residences and structures that exist around the tower site. Though there are new homes located just south of the tower, at the end of the roads shown in the attached Google Earth view, none are located within the interfering contour. There are no residences, businesses or major roadways that intersect the interference contour at any azimuth, therefore Calvary Chapel of Twin Falls, Inc. respectfully requests a waiver of the FM translator contour overlap regulations with respect to second-adjacent FM Station KAOS Olympia.

Calvary Chapel of Twin Falls, Inc.

K201EM Olympia Minor Channel Change
 Calvary Chapel Of Twin Falls, Inc.
 CH# 209D - 89.7 MHz, Pwr= 0.099 kW DA, HAAT= 116.3 M, COR= 160 M
 Average Protected F(50-50)= 11.05 km
 Standard Directional

DISPLAY DATES
 DATA 08-24-11
 SEARCH 08-30-11

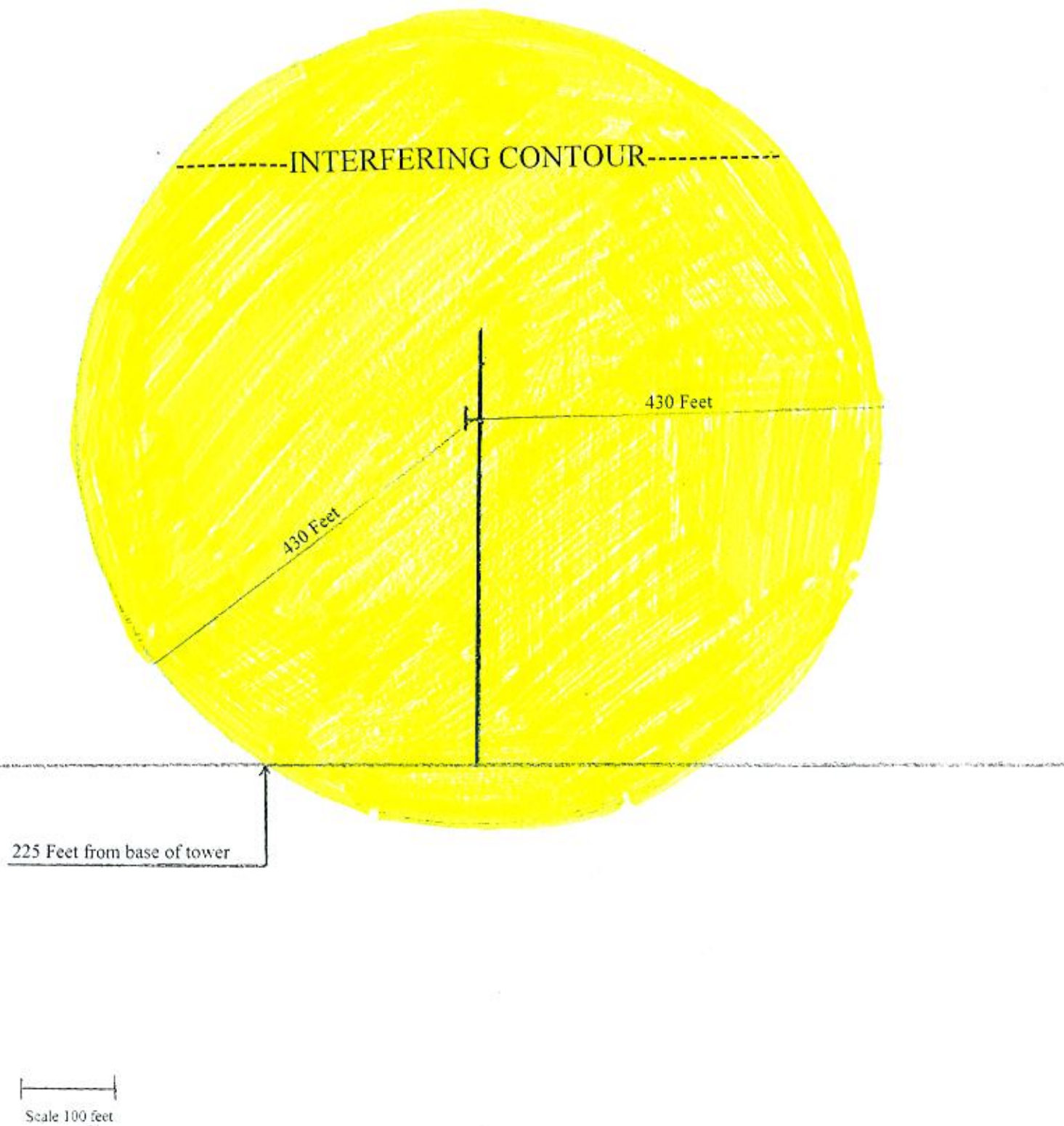
REFERENCE
 47 03 44.0 N.
 122 49 49.0 W.

| CH CITY | CALL | TYPE STATE | ANT | AZI <-- | DIST FILE # | LAT LNG | PWR(kW) HAAT(M) | INT(km) COR(M) | PRO(km) LICENSEE | *IN* (Overlap in km) | *OUT* |
|--------------------|---------|---------------|-----|----------------|--------------------------|---------------------------|--------------------|-------------------|-------------------------------------|-------------------------|--------|
| 207A Olympia | KAOS | LIC_CX WA | | 231.7 51.6 | 8.3 BLED20011228AAV | 47 00 58.0 122 54 57.0 | 1.250 74 | 1.7 149 | 19.6 The Evergreen State Colleg | -3.8* | -12.0* |
| 209A Roy | KWFJ | LIC_DEN WA | | 116.4 296.6 | 23.9 BLED19950725KA | 46 57 59.0 122 32 56.0 | 1.000 30 | 28.4 154 | 8.5 Calvary Baptist Church | -7.9* | 4.4 |
| 211A Olympia | KPLI | LIC_DCX WA | | 245.2 65.2 | 5.9 BLED20060913AAF | 47 02 24.0 122 54 03.0 | 0.100 -10 | 0.6 44 | 5.1 Paci fic Lutheran Universi t | -5.0* | 0.1 |
| 210A Gig Harbor | KGHP | LIC_DEX WA | | 12.7 192.7 | 20.4 BLED20061204AHL | 47 14 27.0 122 46 16.0 | 1.350 61 | 18.9 86 | 12.8 Peninsul a School Di strict | 0.0 | 5.5 |
| 209A Chehal is | 1416845 | APP_DCX WA | | 197.1 16.9 | 59.0 BNPED20071019ARU | 46 33 16.0 123 03 26.0 | 0.380 307 | 48.4 461 | 14.4 The Kboo Foundation | 3.8 | 21.8 |
| 208C1 Seattle | KNHC | LIC_DCX WA | | 45.3 225.8 | 76.5 BLED20020402AAC | 47 32 35.0 122 06 25.0 | 8.500 372 | 59.6 498 | 39.3 Seattle Public Schools | 11.7 | 30.0 |
| 211D Shel ton | K211FH | LIC_DV_ WA | | 307.8 127.6 | 25.1 BLFT20110413AAA | 47 11 59.0 123 05 31.0 | 0.050 5 | 0.3 87 | 5.4 Calvary Chapel Of Twin Fal | 15.6 | 19.3 |

Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 Contour distances are on direct line to and from reference station. Reference zone= , Co to 3rd adjacent.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
 "*"affixed to 'IN' or 'OUT' values = site inside protected contour.

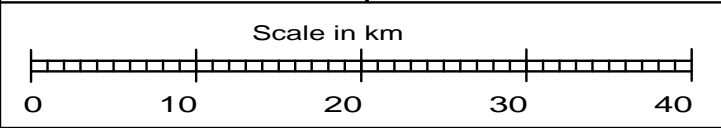
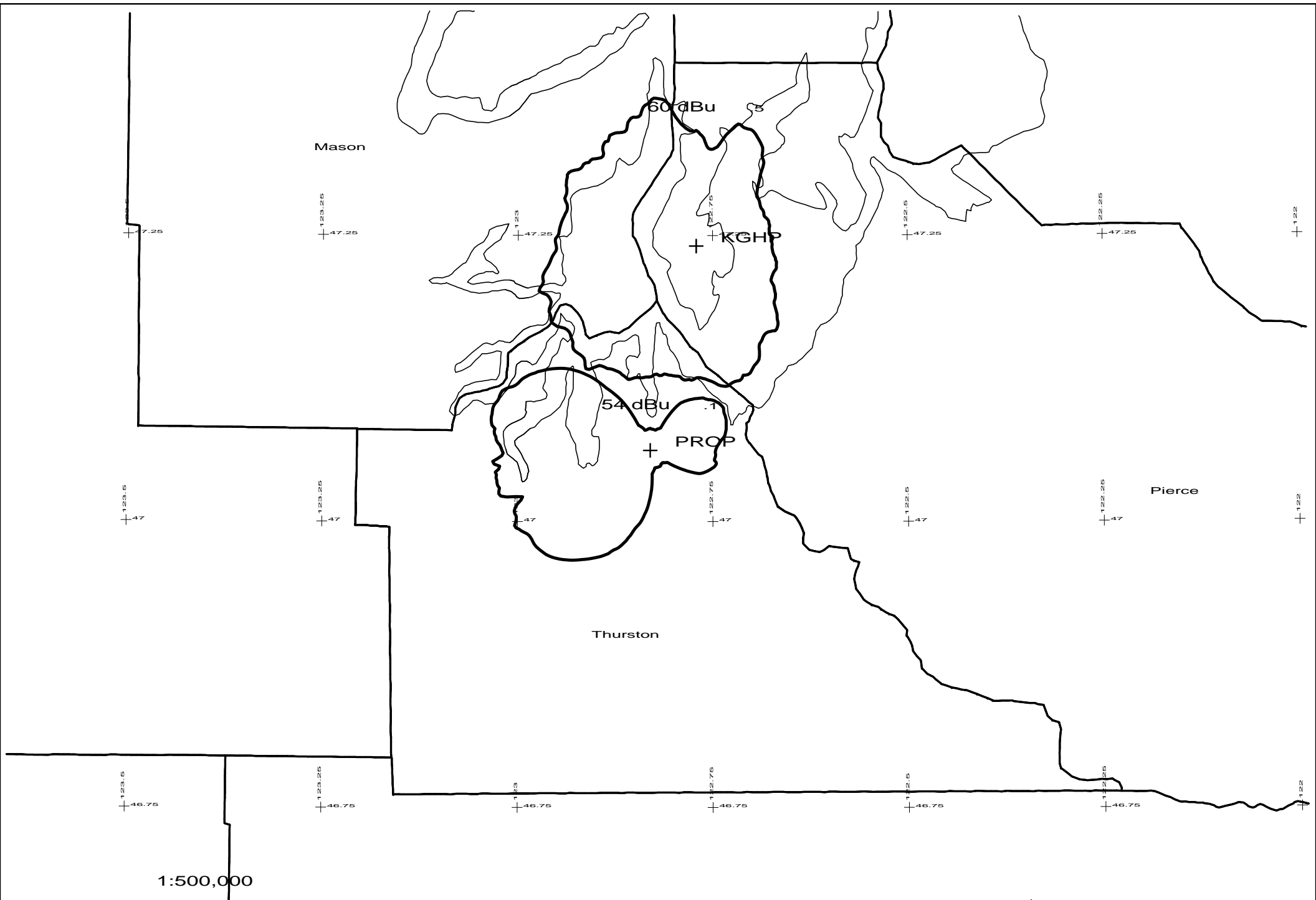


VERTICAL PLANE SKETCH



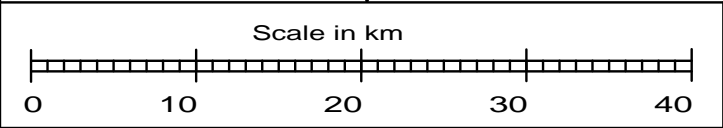
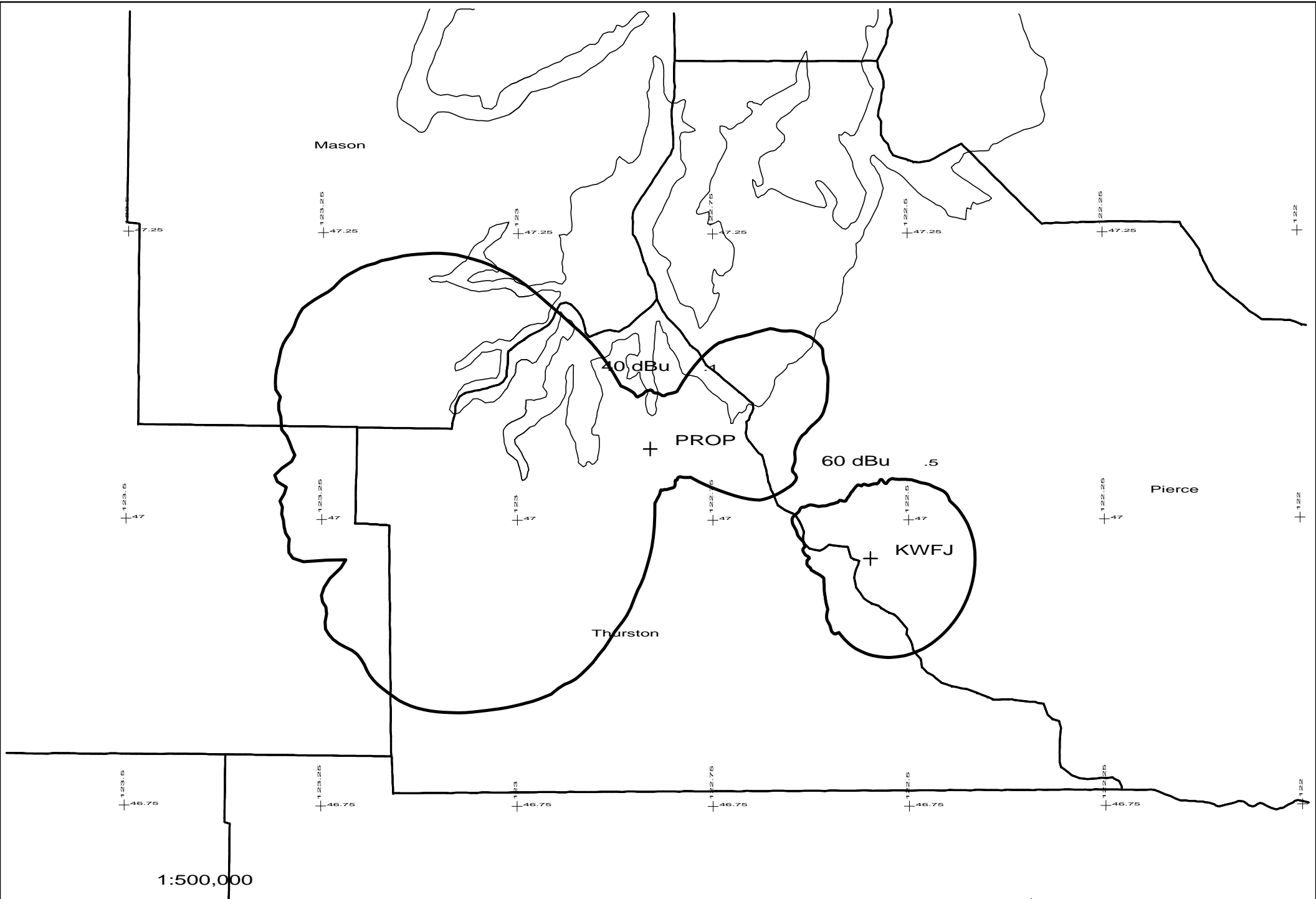
CALVARY CHAPEL OF TWIN FALLS, INC.





PROP 209D .099kW 160M AMSL
N. Lat. 47 03 44 W. Lng. 122 49 49

PROP vs KGHP
CCTF - 08/11



PROP 209D .099kW 160M AMSL
N. Lat. 47 03 44 W. Lng. 122 49 49

PROP vs KWFJ
CCTF - 08/11

Contour.out

Canadian Compliance

ERP

Olympia, WA K201EM

Minor Change

August 2011

Calvary Chapel of Twin Falls, Inc.

N. Lat. = 470344.0 W. Lng. = 1224949.0

HAAT and Distance to Contour,

FCC, FM 2-10 Mi, 51 pts Method - USGS 03 SEC

| Azi. | AV EL | HAAT | ERP kW | dBk | Field | 34-F1 |
|------|-------|-------|--------|--------|-------|-------|
| 000 | 4.4 | 155.6 | 0.0000 | -44.02 | 0.020 | 8.12 |
| 001 | 3.9 | 156.1 | 0.0000 | -44.02 | 0.020 | 8.13 |
| 002 | 7.0 | 153.0 | 0.0000 | -44.02 | 0.020 | 8.04 |
| 003 | 13.4 | 146.6 | 0.0000 | -44.02 | 0.020 | 7.85 |
| 004 | 16.7 | 143.3 | 0.0000 | -44.02 | 0.020 | 7.76 |
| 005 | 17.9 | 142.1 | 0.0000 | -44.02 | 0.020 | 7.73 |
| 006 | 17.5 | 142.5 | 0.0000 | -44.02 | 0.020 | 7.74 |
| 007 | 17.0 | 143.0 | 0.0000 | -44.02 | 0.020 | 7.75 |
| 008 | 17.4 | 142.6 | 0.0000 | -44.02 | 0.020 | 7.74 |
| 009 | 19.6 | 140.4 | 0.0000 | -44.02 | 0.020 | 7.68 |
| 010 | 21.8 | 138.2 | 0.0000 | -44.02 | 0.020 | 7.61 |
| 011 | 23.7 | 136.3 | 0.0000 | -44.02 | 0.020 | 7.56 |
| 012 | 25.3 | 134.7 | 0.0000 | -44.02 | 0.020 | 7.51 |
| 013 | 25.9 | 134.1 | 0.0000 | -44.02 | 0.020 | 7.50 |
| 014 | 25.4 | 134.6 | 0.0000 | -44.02 | 0.020 | 7.51 |
| 015 | 24.0 | 136.0 | 0.0000 | -44.02 | 0.020 | 7.55 |
| 016 | 22.8 | 137.2 | 0.0000 | -43.81 | 0.021 | 7.68 |
| 017 | 21.1 | 138.9 | 0.0000 | -43.60 | 0.021 | 7.82 |
| 018 | 21.6 | 138.4 | 0.0000 | -43.39 | 0.022 | 7.90 |
| 019 | 21.2 | 138.8 | 0.0000 | -43.20 | 0.022 | 8.00 |
| 020 | 22.1 | 137.9 | 0.0001 | -43.00 | 0.023 | 8.07 |
| 021 | 21.8 | 138.2 | 0.0001 | -42.81 | 0.023 | 8.18 |
| 022 | 21.2 | 138.8 | 0.0001 | -42.62 | 0.023 | 8.29 |
| 023 | 20.1 | 139.9 | 0.0001 | -42.44 | 0.024 | 8.41 |
| 024 | 19.2 | 140.8 | 0.0001 | -42.26 | 0.024 | 8.53 |
| 025 | 15.9 | 144.1 | 0.0001 | -42.08 | 0.025 | 8.73 |
| 026 | 15.1 | 144.9 | 0.0001 | -39.16 | 0.035 | 10.35 |
| 027 | 15.8 | 144.2 | 0.0002 | -36.98 | 0.045 | 11.65 |
| 028 | 16.7 | 143.3 | 0.0003 | -35.24 | 0.055 | 12.80 |
| 029 | 17.4 | 142.6 | 0.0004 | -33.79 | 0.065 | 13.87 |
| 030 | 17.8 | 142.2 | 0.0006 | -32.54 | 0.075 | 15.03 |
| 031 | 18.2 | 141.8 | 0.0007 | -31.46 | 0.085 | 16.29 |
| 032 | 18.6 | 141.4 | 0.0009 | -30.49 | 0.095 | 17.43 |
| 033 | 21.2 | 138.8 | 0.0011 | -29.62 | 0.105 | 18.28 |
| 034 | 27.9 | 132.1 | 0.0013 | -28.83 | 0.115 | 18.71 |
| 035 | 31.6 | 128.4 | 0.0015 | -28.11 | 0.125 | 19.30 |
| 036 | 33.8 | 126.2 | 0.0017 | -27.63 | 0.132 | 19.71 |
| 037 | 34.2 | 125.8 | 0.0019 | -27.18 | 0.139 | 20.24 |
| 038 | 34.3 | 125.7 | 0.0021 | -26.76 | 0.146 | 20.77 |
| 039 | 35.6 | 124.4 | 0.0023 | -26.35 | 0.153 | 21.19 |
| 040 | 35.8 | 124.2 | 0.0025 | -25.96 | 0.160 | 21.67 |
| 041 | 35.5 | 124.5 | 0.0028 | -25.59 | 0.167 | 22.19 |
| 042 | 35.8 | 124.2 | 0.0030 | -25.23 | 0.174 | 22.63 |
| 043 | 35.8 | 124.2 | 0.0032 | -24.89 | 0.181 | 23.09 |
| 044 | 34.8 | 125.2 | 0.0035 | -24.56 | 0.188 | 23.63 |
| 045 | 33.9 | 126.1 | 0.0038 | -24.24 | 0.195 | 24.14 |
| 046 | 33.6 | 126.4 | 0.0039 | -24.09 | 0.199 | 24.39 |
| 047 | 33.0 | 127.0 | 0.0040 | -23.94 | 0.202 | 24.66 |
| 048 | 32.4 | 127.6 | 0.0042 | -23.79 | 0.206 | 24.93 |
| 049 | 30.7 | 129.3 | 0.0043 | -23.64 | 0.209 | 25.29 |

| | | | | Contour.out | | |
|-----|------|-------|--------|-------------|-------|-------|
| 050 | 27.7 | 132.3 | 0.0045 | -23.50 | 0.213 | 25.79 |
| 051 | 26.2 | 133.8 | 0.0046 | -23.35 | 0.216 | 26.15 |
| 052 | 25.4 | 134.6 | 0.0048 | -23.21 | 0.220 | 26.44 |
| 053 | 25.1 | 134.9 | 0.0049 | -23.08 | 0.223 | 26.67 |
| 054 | 25.2 | 134.8 | 0.0051 | -22.94 | 0.227 | 26.86 |
| 055 | 24.4 | 135.6 | 0.0052 | -22.81 | 0.230 | 27.15 |
| 056 | 24.3 | 135.7 | 0.0053 | -22.73 | 0.232 | 27.27 |
| 057 | 24.3 | 135.7 | 0.0054 | -22.66 | 0.234 | 27.38 |
| 058 | 24.4 | 135.6 | 0.0055 | -22.59 | 0.236 | 27.49 |
| 059 | 24.6 | 135.4 | 0.0056 | -22.51 | 0.238 | 27.58 |
| 060 | 26.0 | 134.0 | 0.0057 | -22.44 | 0.240 | 27.56 |
| 061 | 29.5 | 130.5 | 0.0058 | -22.37 | 0.242 | 27.30 |
| 062 | 32.3 | 127.7 | 0.0059 | -22.30 | 0.244 | 27.13 |
| 063 | 35.0 | 125.0 | 0.0060 | -22.22 | 0.246 | 26.97 |
| 064 | 36.8 | 123.2 | 0.0061 | -22.15 | 0.248 | 26.90 |
| 065 | 38.0 | 122.0 | 0.0062 | -22.08 | 0.250 | 26.89 |
| 066 | 39.4 | 120.6 | 0.0062 | -22.05 | 0.251 | 26.79 |
| 067 | 40.7 | 119.3 | 0.0063 | -22.02 | 0.252 | 26.71 |
| 068 | 42.3 | 117.7 | 0.0063 | -21.98 | 0.253 | 26.59 |
| 069 | 44.0 | 116.0 | 0.0064 | -21.95 | 0.254 | 26.46 |
| 070 | 46.0 | 114.0 | 0.0064 | -21.91 | 0.255 | 26.28 |
| 071 | 47.6 | 112.4 | 0.0065 | -21.88 | 0.256 | 26.14 |
| 072 | 49.4 | 110.6 | 0.0065 | -21.84 | 0.257 | 25.98 |
| 073 | 51.0 | 109.1 | 0.0066 | -21.81 | 0.258 | 25.85 |
| 074 | 52.8 | 107.2 | 0.0066 | -21.78 | 0.259 | 25.67 |
| 075 | 54.3 | 105.7 | 0.0067 | -21.74 | 0.260 | 25.54 |
| 076 | 55.6 | 104.4 | 0.0066 | -21.78 | 0.259 | 25.31 |
| 077 | 57.0 | 103.0 | 0.0066 | -21.81 | 0.258 | 25.10 |
| 078 | 58.2 | 101.8 | 0.0065 | -21.84 | 0.257 | 24.89 |
| 079 | 60.1 | 99.9 | 0.0065 | -21.88 | 0.256 | 24.60 |
| 080 | 62.7 | 97.3 | 0.0064 | -21.91 | 0.255 | 24.20 |
| 081 | 66.1 | 93.9 | 0.0064 | -21.95 | 0.254 | 23.70 |
| 082 | 69.9 | 90.1 | 0.0063 | -21.98 | 0.253 | 23.13 |
| 083 | 72.5 | 87.5 | 0.0063 | -22.02 | 0.252 | 22.72 |
| 084 | 74.3 | 85.7 | 0.0062 | -22.05 | 0.251 | 22.42 |
| 085 | 76.2 | 83.8 | 0.0062 | -22.08 | 0.250 | 22.10 |
| 086 | 77.9 | 82.1 | 0.0061 | -22.15 | 0.248 | 21.78 |
| 087 | 79.0 | 81.0 | 0.0060 | -22.22 | 0.246 | 21.53 |
| 088 | 79.9 | 80.1 | 0.0059 | -22.30 | 0.244 | 21.31 |
| 089 | 80.5 | 79.5 | 0.0058 | -22.37 | 0.242 | 21.13 |
| 090 | 80.7 | 79.3 | 0.0057 | -22.44 | 0.240 | 21.01 |
| 091 | 80.6 | 79.4 | 0.0056 | -22.51 | 0.238 | 20.94 |
| 092 | 79.7 | 80.3 | 0.0055 | -22.59 | 0.236 | 20.97 |
| 093 | 78.5 | 81.5 | 0.0054 | -22.66 | 0.234 | 21.05 |
| 094 | 77.4 | 82.6 | 0.0053 | -22.73 | 0.232 | 21.11 |
| 095 | 76.5 | 83.5 | 0.0052 | -22.81 | 0.230 | 21.13 |
| 096 | 76.1 | 83.9 | 0.0051 | -22.94 | 0.227 | 21.02 |
| 097 | 75.4 | 84.6 | 0.0049 | -23.08 | 0.223 | 20.94 |
| 098 | 74.8 | 85.2 | 0.0048 | -23.21 | 0.220 | 20.86 |
| 099 | 72.7 | 87.3 | 0.0046 | -23.35 | 0.216 | 20.97 |
| 100 | 67.3 | 92.7 | 0.0045 | -23.50 | 0.213 | 21.49 |
| 101 | 63.8 | 96.2 | 0.0043 | -23.64 | 0.209 | 21.75 |
| 102 | 62.5 | 97.5 | 0.0042 | -23.79 | 0.206 | 21.72 |
| 103 | 62.0 | 98.0 | 0.0040 | -23.94 | 0.202 | 21.59 |
| 104 | 62.3 | 97.7 | 0.0039 | -24.09 | 0.199 | 21.36 |
| 105 | 62.6 | 97.4 | 0.0038 | -24.24 | 0.195 | 21.11 |
| 106 | 62.1 | 97.9 | 0.0035 | -24.56 | 0.188 | 20.77 |
| 107 | 61.4 | 98.6 | 0.0032 | -24.89 | 0.181 | 20.44 |
| 108 | 60.5 | 99.5 | 0.0030 | -25.23 | 0.174 | 20.12 |
| 109 | 59.5 | 100.5 | 0.0028 | -25.59 | 0.167 | 19.79 |
| 110 | 58.6 | 101.4 | 0.0025 | -25.96 | 0.160 | 19.42 |
| 111 | 57.8 | 102.2 | 0.0023 | -26.35 | 0.153 | 19.04 |
| 112 | 56.8 | 103.2 | 0.0021 | -26.76 | 0.146 | 18.64 |

| | | | | Contour.out | | |
|-----|------|-------|--------|-------------|-------|-------|
| 113 | 55.9 | 104.1 | 0.0019 | -27.18 | 0.139 | 18.22 |
| 114 | 54.9 | 105.1 | 0.0017 | -27.63 | 0.132 | 17.77 |
| 115 | 54.4 | 105.6 | 0.0015 | -28.11 | 0.125 | 17.25 |
| 116 | 54.9 | 105.1 | 0.0013 | -28.83 | 0.115 | 16.34 |
| 117 | 56.7 | 103.3 | 0.0011 | -29.62 | 0.105 | 15.21 |
| 118 | 59.9 | 100.1 | 0.0009 | -30.49 | 0.095 | 14.05 |
| 119 | 63.5 | 96.5 | 0.0007 | -31.46 | 0.085 | 13.05 |
| 120 | 67.7 | 92.3 | 0.0006 | -32.54 | 0.075 | 12.02 |
| 121 | 70.8 | 89.2 | 0.0004 | -33.79 | 0.065 | 11.05 |
| 122 | 72.6 | 87.4 | 0.0003 | -35.24 | 0.055 | 10.09 |
| 123 | 73.6 | 86.4 | 0.0002 | -36.98 | 0.045 | 9.07 |
| 124 | 74.0 | 86.0 | 0.0001 | -39.16 | 0.035 | 7.93 |
| 125 | 74.4 | 85.6 | 0.0001 | -42.08 | 0.025 | 6.71 |
| 126 | 75.6 | 84.4 | 0.0001 | -42.26 | 0.024 | 6.59 |
| 127 | 77.2 | 82.8 | 0.0001 | -42.44 | 0.024 | 6.46 |
| 128 | 79.1 | 80.9 | 0.0001 | -42.62 | 0.023 | 6.32 |
| 129 | 80.8 | 79.2 | 0.0001 | -42.81 | 0.023 | 6.19 |
| 130 | 82.7 | 77.3 | 0.0001 | -43.00 | 0.023 | 6.05 |
| 131 | 85.1 | 74.9 | 0.0000 | -43.20 | 0.022 | 5.89 |
| 132 | 87.8 | 72.2 | 0.0000 | -43.39 | 0.022 | 5.73 |
| 133 | 90.1 | 69.9 | 0.0000 | -43.60 | 0.021 | 5.57 |
| 134 | 90.0 | 70.0 | 0.0000 | -43.81 | 0.021 | 5.51 |
| 135 | 89.3 | 70.7 | 0.0000 | -44.02 | 0.020 | 5.47 |
| 136 | 89.6 | 70.4 | 0.0000 | -44.02 | 0.020 | 5.46 |
| 137 | 89.3 | 70.7 | 0.0000 | -44.02 | 0.020 | 5.47 |
| 138 | 86.2 | 73.8 | 0.0000 | -44.02 | 0.020 | 5.59 |
| 139 | 84.8 | 75.2 | 0.0000 | -44.02 | 0.020 | 5.64 |
| 140 | 87.3 | 72.7 | 0.0000 | -44.02 | 0.020 | 5.55 |
| 141 | 88.8 | 71.2 | 0.0000 | -44.02 | 0.020 | 5.49 |
| 142 | 87.5 | 72.5 | 0.0000 | -44.02 | 0.020 | 5.54 |
| 143 | 83.3 | 76.7 | 0.0000 | -44.02 | 0.020 | 5.70 |
| 144 | 79.4 | 80.6 | 0.0000 | -44.02 | 0.020 | 5.84 |
| 145 | 76.5 | 83.5 | 0.0000 | -44.02 | 0.020 | 5.95 |
| 146 | 73.3 | 86.7 | 0.0000 | -44.02 | 0.020 | 6.06 |
| 147 | 71.1 | 88.9 | 0.0000 | -44.02 | 0.020 | 6.14 |
| 148 | 70.1 | 89.9 | 0.0000 | -44.02 | 0.020 | 6.18 |
| 149 | 69.7 | 90.3 | 0.0000 | -44.02 | 0.020 | 6.20 |
| 150 | 69.8 | 90.2 | 0.0000 | -44.02 | 0.020 | 6.19 |
| 151 | 70.9 | 89.1 | 0.0000 | -44.02 | 0.020 | 6.15 |
| 152 | 72.2 | 87.8 | 0.0000 | -44.02 | 0.020 | 6.10 |
| 153 | 72.7 | 87.3 | 0.0000 | -44.02 | 0.020 | 6.09 |
| 154 | 73.2 | 86.8 | 0.0000 | -44.02 | 0.020 | 6.07 |
| 155 | 73.6 | 86.4 | 0.0000 | -44.02 | 0.020 | 6.05 |
| 156 | 73.9 | 86.1 | 0.0000 | -44.02 | 0.020 | 6.04 |
| 157 | 74.2 | 85.8 | 0.0000 | -44.02 | 0.020 | 6.03 |
| 158 | 74.6 | 85.4 | 0.0000 | -44.02 | 0.020 | 6.01 |
| 159 | 75.8 | 84.2 | 0.0000 | -44.02 | 0.020 | 5.97 |
| 160 | 77.3 | 82.7 | 0.0000 | -44.02 | 0.020 | 5.92 |
| 161 | 77.7 | 82.3 | 0.0000 | -44.02 | 0.020 | 5.90 |
| 162 | 77.5 | 82.5 | 0.0000 | -44.02 | 0.020 | 5.91 |
| 163 | 77.3 | 82.7 | 0.0000 | -44.02 | 0.020 | 5.92 |
| 164 | 77.7 | 82.3 | 0.0000 | -44.02 | 0.020 | 5.90 |
| 165 | 80.8 | 79.2 | 0.0000 | -44.02 | 0.020 | 5.79 |
| 166 | 82.7 | 77.3 | 0.0000 | -43.60 | 0.021 | 5.85 |
| 167 | 80.0 | 80.0 | 0.0000 | -43.20 | 0.022 | 6.09 |
| 168 | 78.1 | 81.9 | 0.0001 | -42.81 | 0.023 | 6.30 |
| 169 | 77.9 | 82.1 | 0.0001 | -42.44 | 0.024 | 6.44 |
| 170 | 78.0 | 82.0 | 0.0001 | -42.08 | 0.025 | 6.56 |
| 171 | 77.9 | 82.1 | 0.0001 | -41.74 | 0.026 | 6.69 |
| 172 | 77.4 | 82.6 | 0.0001 | -41.42 | 0.027 | 6.83 |
| 173 | 76.0 | 84.0 | 0.0001 | -41.10 | 0.028 | 7.01 |
| 174 | 74.8 | 85.2 | 0.0001 | -40.80 | 0.029 | 7.18 |
| 175 | 74.7 | 85.3 | 0.0001 | -40.50 | 0.030 | 7.31 |

| | | | | Contour.out | | |
|-----|------|-------|--------|-------------|-------|-------|
| 176 | 74.3 | 85.7 | 0.0002 | -36.88 | 0.045 | 9.09 |
| 177 | 70.6 | 89.4 | 0.0004 | -34.34 | 0.061 | 10.73 |
| 178 | 69.3 | 90.7 | 0.0006 | -32.37 | 0.076 | 12.04 |
| 179 | 68.0 | 92.0 | 0.0008 | -30.77 | 0.092 | 13.24 |
| 180 | 67.8 | 92.2 | 0.0011 | -29.42 | 0.108 | 14.33 |
| 181 | 67.3 | 92.7 | 0.0015 | -28.25 | 0.123 | 15.71 |
| 182 | 65.0 | 95.0 | 0.0019 | -27.21 | 0.139 | 17.18 |
| 183 | 62.3 | 97.7 | 0.0023 | -26.29 | 0.154 | 18.60 |
| 184 | 61.7 | 98.3 | 0.0028 | -25.46 | 0.169 | 19.69 |
| 185 | 62.1 | 97.9 | 0.0034 | -24.70 | 0.185 | 20.60 |
| 186 | 62.4 | 97.6 | 0.0043 | -23.70 | 0.207 | 21.84 |
| 187 | 63.2 | 96.8 | 0.0052 | -22.81 | 0.230 | 22.91 |
| 188 | 64.6 | 95.4 | 0.0063 | -22.00 | 0.252 | 23.82 |
| 189 | 67.0 | 93.0 | 0.0075 | -21.26 | 0.275 | 24.52 |
| 190 | 69.2 | 90.8 | 0.0088 | -20.57 | 0.298 | 25.16 |
| 191 | 70.6 | 89.5 | 0.0101 | -19.94 | 0.320 | 25.89 |
| 192 | 69.3 | 90.7 | 0.0116 | -19.35 | 0.343 | 26.97 |
| 193 | 67.6 | 92.4 | 0.0132 | -18.80 | 0.365 | 28.12 |
| 194 | 66.9 | 93.1 | 0.0149 | -18.28 | 0.387 | 29.11 |
| 195 | 64.6 | 95.4 | 0.0166 | -17.79 | 0.410 | 30.37 |
| 196 | 63.3 | 96.7 | 0.0182 | -17.39 | 0.429 | 31.37 |
| 197 | 61.4 | 98.6 | 0.0199 | -17.02 | 0.448 | 32.50 |
| 198 | 60.3 | 99.7 | 0.0216 | -16.66 | 0.467 | 33.46 |
| 199 | 60.6 | 99.4 | 0.0234 | -16.31 | 0.486 | 34.15 |
| 200 | 61.0 | 99.0 | 0.0252 | -15.98 | 0.505 | 34.79 |
| 201 | 60.0 | 100.0 | 0.0272 | -15.66 | 0.524 | 35.69 |
| 202 | 57.9 | 102.1 | 0.0292 | -15.35 | 0.543 | 36.76 |
| 203 | 58.0 | 102.0 | 0.0313 | -15.05 | 0.562 | 37.42 |
| 204 | 57.7 | 102.3 | 0.0334 | -14.76 | 0.581 | 38.12 |
| 205 | 57.5 | 102.5 | 0.0356 | -14.48 | 0.600 | 38.80 |
| 206 | 56.6 | 103.4 | 0.0373 | -14.29 | 0.613 | 39.42 |
| 207 | 55.5 | 104.5 | 0.0389 | -14.10 | 0.627 | 40.06 |
| 208 | 54.7 | 105.3 | 0.0406 | -13.91 | 0.641 | 40.65 |
| 209 | 53.8 | 106.2 | 0.0423 | -13.73 | 0.654 | 41.24 |
| 210 | 53.0 | 107.0 | 0.0441 | -13.55 | 0.668 | 41.81 |
| 211 | 52.3 | 107.7 | 0.0459 | -13.38 | 0.681 | 42.36 |
| 212 | 51.5 | 108.5 | 0.0478 | -13.21 | 0.695 | 42.90 |
| 213 | 50.7 | 109.3 | 0.0496 | -13.04 | 0.708 | 43.45 |
| 214 | 49.7 | 110.3 | 0.0515 | -12.88 | 0.721 | 44.03 |
| 215 | 48.7 | 111.3 | 0.0535 | -12.72 | 0.735 | 44.58 |
| 216 | 47.6 | 112.4 | 0.0550 | -12.59 | 0.746 | 45.07 |
| 217 | 46.6 | 113.4 | 0.0566 | -12.47 | 0.756 | 45.54 |
| 218 | 45.6 | 114.4 | 0.0582 | -12.35 | 0.766 | 46.01 |
| 219 | 44.6 | 115.4 | 0.0598 | -12.24 | 0.777 | 46.46 |
| 220 | 43.8 | 116.2 | 0.0614 | -12.12 | 0.788 | 46.89 |
| 221 | 43.2 | 116.8 | 0.0630 | -12.00 | 0.798 | 47.27 |
| 222 | 42.7 | 117.3 | 0.0647 | -11.89 | 0.808 | 47.64 |
| 223 | 42.5 | 117.5 | 0.0664 | -11.78 | 0.819 | 47.96 |
| 224 | 42.5 | 117.5 | 0.0681 | -11.67 | 0.830 | 48.24 |
| 225 | 42.7 | 117.3 | 0.0699 | -11.56 | 0.840 | 48.49 |
| 226 | 43.2 | 116.8 | 0.0712 | -11.47 | 0.848 | 48.63 |
| 227 | 43.7 | 116.3 | 0.0726 | -11.39 | 0.857 | 48.78 |
| 228 | 44.1 | 115.9 | 0.0741 | -11.30 | 0.865 | 48.94 |
| 229 | 44.6 | 115.4 | 0.0755 | -11.22 | 0.873 | 49.06 |
| 230 | 45.4 | 114.6 | 0.0769 | -11.14 | 0.882 | 49.15 |
| 231 | 46.7 | 113.3 | 0.0784 | -11.06 | 0.890 | 49.16 |
| 232 | 48.4 | 111.6 | 0.0799 | -10.98 | 0.898 | 49.09 |
| 233 | 50.3 | 109.7 | 0.0813 | -10.90 | 0.906 | 48.98 |
| 234 | 51.6 | 108.4 | 0.0828 | -10.82 | 0.915 | 48.94 |
| 235 | 52.3 | 107.7 | 0.0843 | -10.74 | 0.923 | 49.02 |
| 236 | 51.8 | 108.2 | 0.0854 | -10.69 | 0.929 | 49.26 |
| 237 | 50.6 | 109.4 | 0.0864 | -10.63 | 0.934 | 49.60 |
| 238 | 49.3 | 110.7 | 0.0875 | -10.58 | 0.940 | 49.97 |

| | | | | Contour.out | | |
|-----|------|-------|--------|-------------|-------|-------|
| 239 | 48.3 | 111.7 | 0.0886 | -10.53 | 0.946 | 50.27 |
| 240 | 48.3 | 111.7 | 0.0896 | -10.48 | 0.951 | 50.40 |
| 241 | 48.9 | 111.1 | 0.0907 | -10.42 | 0.957 | 50.43 |
| 242 | 51.7 | 108.3 | 0.0918 | -10.37 | 0.963 | 50.09 |
| 243 | 55.6 | 104.4 | 0.0929 | -10.32 | 0.969 | 49.52 |
| 244 | 58.1 | 101.9 | 0.0940 | -10.27 | 0.974 | 49.18 |
| 245 | 58.5 | 101.5 | 0.0951 | -10.22 | 0.980 | 49.23 |
| 246 | 59.7 | 100.3 | 0.0955 | -10.20 | 0.982 | 49.04 |
| 247 | 62.9 | 97.1 | 0.0959 | -10.18 | 0.984 | 48.43 |
| 248 | 67.6 | 92.4 | 0.0962 | -10.17 | 0.986 | 47.44 |
| 249 | 74.9 | 85.1 | 0.0966 | -10.15 | 0.988 | 45.74 |
| 250 | 79.8 | 80.2 | 0.0970 | -10.13 | 0.990 | 44.53 |
| 251 | 71.4 | 88.6 | 0.0974 | -10.11 | 0.992 | 46.69 |
| 252 | 58.4 | 101.6 | 0.0978 | -10.10 | 0.994 | 49.57 |
| 253 | 53.3 | 106.7 | 0.0982 | -10.08 | 0.996 | 50.57 |
| 254 | 51.8 | 108.2 | 0.0986 | -10.06 | 0.998 | 50.88 |
| 255 | 52.6 | 107.4 | 0.0990 | -10.04 | 1.000 | 50.78 |
| 256 | 53.8 | 106.2 | 0.0986 | -10.06 | 0.998 | 50.53 |
| 257 | 52.1 | 107.9 | 0.0982 | -10.08 | 0.996 | 50.77 |
| 258 | 52.0 | 108.0 | 0.0978 | -10.10 | 0.994 | 50.76 |
| 259 | 52.3 | 107.7 | 0.0974 | -10.11 | 0.992 | 50.65 |
| 260 | 51.5 | 108.5 | 0.0970 | -10.13 | 0.990 | 50.75 |
| 261 | 53.3 | 106.7 | 0.0966 | -10.15 | 0.988 | 50.38 |
| 262 | 52.8 | 107.2 | 0.0962 | -10.17 | 0.986 | 50.42 |
| 263 | 55.3 | 104.7 | 0.0959 | -10.18 | 0.984 | 49.94 |
| 264 | 55.6 | 104.4 | 0.0955 | -10.20 | 0.982 | 49.83 |
| 265 | 50.3 | 109.7 | 0.0951 | -10.22 | 0.980 | 50.72 |
| 266 | 48.8 | 111.2 | 0.0940 | -10.27 | 0.974 | 50.85 |
| 267 | 53.4 | 106.6 | 0.0929 | -10.32 | 0.969 | 49.92 |
| 268 | 59.3 | 100.7 | 0.0918 | -10.37 | 0.963 | 48.67 |
| 269 | 60.8 | 99.2 | 0.0907 | -10.42 | 0.957 | 48.22 |
| 270 | 57.5 | 102.5 | 0.0896 | -10.48 | 0.951 | 48.74 |
| 271 | 55.0 | 105.0 | 0.0886 | -10.53 | 0.946 | 49.09 |
| 272 | 52.1 | 107.9 | 0.0875 | -10.58 | 0.940 | 49.47 |
| 273 | 47.8 | 112.2 | 0.0864 | -10.63 | 0.934 | 50.08 |
| 274 | 46.3 | 113.7 | 0.0854 | -10.69 | 0.929 | 50.18 |
| 275 | 44.7 | 115.3 | 0.0843 | -10.74 | 0.923 | 50.29 |
| 276 | 41.6 | 118.4 | 0.0828 | -10.82 | 0.915 | 50.55 |
| 277 | 40.6 | 119.4 | 0.0813 | -10.90 | 0.906 | 50.50 |
| 278 | 39.9 | 120.1 | 0.0799 | -10.98 | 0.898 | 50.39 |
| 279 | 33.7 | 126.3 | 0.0784 | -11.06 | 0.890 | 51.05 |
| 280 | 31.1 | 128.9 | 0.0769 | -11.14 | 0.882 | 51.20 |
| 281 | 28.9 | 131.1 | 0.0755 | -11.22 | 0.873 | 51.28 |
| 282 | 27.0 | 133.0 | 0.0741 | -11.30 | 0.865 | 51.33 |
| 283 | 25.8 | 134.2 | 0.0726 | -11.39 | 0.857 | 51.28 |
| 284 | 24.1 | 135.9 | 0.0712 | -11.47 | 0.848 | 51.30 |
| 285 | 22.3 | 137.7 | 0.0699 | -11.56 | 0.840 | 51.32 |
| 286 | 20.8 | 139.2 | 0.0681 | -11.67 | 0.830 | 51.24 |
| 287 | 20.2 | 139.8 | 0.0664 | -11.78 | 0.819 | 51.04 |
| 288 | 20.2 | 139.8 | 0.0647 | -11.89 | 0.808 | 50.76 |
| 289 | 19.1 | 140.9 | 0.0630 | -12.00 | 0.798 | 50.62 |
| 290 | 17.1 | 142.9 | 0.0614 | -12.12 | 0.788 | 50.59 |
| 291 | 15.4 | 144.6 | 0.0598 | -12.24 | 0.777 | 50.52 |
| 292 | 14.3 | 145.7 | 0.0582 | -12.35 | 0.766 | 50.37 |
| 293 | 15.3 | 144.7 | 0.0566 | -12.47 | 0.756 | 49.92 |
| 294 | 16.6 | 143.4 | 0.0550 | -12.59 | 0.746 | 49.43 |
| 295 | 18.1 | 141.9 | 0.0535 | -12.72 | 0.735 | 48.92 |
| 296 | 18.9 | 141.1 | 0.0515 | -12.88 | 0.721 | 48.39 |
| 297 | 18.4 | 141.6 | 0.0496 | -13.04 | 0.708 | 48.04 |
| 298 | 17.1 | 142.9 | 0.0478 | -13.21 | 0.695 | 47.78 |
| 299 | 15.9 | 144.1 | 0.0459 | -13.38 | 0.681 | 47.51 |
| 300 | 15.7 | 144.3 | 0.0441 | -13.55 | 0.668 | 47.10 |
| 301 | 15.5 | 144.5 | 0.0423 | -13.73 | 0.654 | 46.68 |

| Contour.out | | | | | | |
|-------------|------|-------|--------|--------|-------|-------|
| 302 | 15.5 | 144.5 | 0.0406 | -13.91 | 0.641 | 46.23 |
| 303 | 15.9 | 144.1 | 0.0389 | -14.10 | 0.627 | 45.73 |
| 304 | 16.9 | 143.1 | 0.0373 | -14.29 | 0.613 | 45.14 |
| 305 | 16.7 | 143.3 | 0.0356 | -14.48 | 0.600 | 44.71 |
| 306 | 16.7 | 143.3 | 0.0334 | -14.76 | 0.581 | 44.05 |
| 307 | 16.1 | 143.9 | 0.0313 | -15.05 | 0.562 | 43.45 |
| 308 | 15.3 | 144.7 | 0.0292 | -15.35 | 0.543 | 42.86 |
| 309 | 15.0 | 145.0 | 0.0272 | -15.66 | 0.524 | 42.19 |
| 310 | 14.7 | 145.3 | 0.0252 | -15.98 | 0.505 | 41.51 |
| 311 | 14.4 | 145.6 | 0.0234 | -16.31 | 0.486 | 40.81 |
| 312 | 13.8 | 146.2 | 0.0216 | -16.66 | 0.467 | 40.12 |
| 313 | 13.7 | 146.3 | 0.0199 | -17.02 | 0.448 | 39.36 |
| 314 | 13.7 | 146.3 | 0.0182 | -17.39 | 0.429 | 38.55 |
| 315 | 13.8 | 146.2 | 0.0166 | -17.79 | 0.410 | 37.71 |
| 316 | 14.0 | 146.0 | 0.0149 | -18.28 | 0.387 | 36.67 |
| 317 | 13.9 | 146.1 | 0.0132 | -18.80 | 0.365 | 35.62 |
| 318 | 13.2 | 146.8 | 0.0116 | -19.35 | 0.343 | 34.58 |
| 319 | 13.8 | 146.2 | 0.0101 | -19.94 | 0.320 | 33.35 |
| 320 | 14.6 | 145.4 | 0.0088 | -20.57 | 0.298 | 32.01 |
| 321 | 13.7 | 146.3 | 0.0075 | -21.26 | 0.275 | 30.84 |
| 322 | 14.1 | 145.9 | 0.0063 | -22.00 | 0.252 | 29.50 |
| 323 | 15.8 | 144.2 | 0.0052 | -22.81 | 0.230 | 28.01 |
| 324 | 18.0 | 142.0 | 0.0043 | -23.70 | 0.207 | 26.42 |
| 325 | 19.1 | 140.9 | 0.0034 | -24.70 | 0.185 | 24.88 |
| 326 | 20.8 | 139.2 | 0.0028 | -25.46 | 0.169 | 23.67 |
| 327 | 21.4 | 138.6 | 0.0023 | -26.29 | 0.154 | 22.50 |
| 328 | 21.4 | 138.6 | 0.0019 | -27.21 | 0.139 | 21.29 |
| 329 | 20.2 | 139.8 | 0.0015 | -28.25 | 0.123 | 20.08 |
| 330 | 18.8 | 141.2 | 0.0011 | -29.42 | 0.108 | 18.73 |
| 331 | 17.6 | 142.4 | 0.0008 | -30.77 | 0.092 | 17.17 |
| 332 | 17.0 | 143.0 | 0.0006 | -32.37 | 0.076 | 15.30 |
| 333 | 17.0 | 143.0 | 0.0004 | -34.34 | 0.061 | 13.45 |
| 334 | 16.6 | 143.4 | 0.0002 | -36.88 | 0.045 | 11.68 |
| 335 | 16.4 | 143.6 | 0.0001 | -40.50 | 0.030 | 9.55 |
| 336 | 16.5 | 143.5 | 0.0001 | -40.80 | 0.029 | 9.39 |
| 337 | 16.9 | 143.1 | 0.0001 | -41.10 | 0.028 | 9.21 |
| 338 | 17.4 | 142.6 | 0.0001 | -41.42 | 0.027 | 9.03 |
| 339 | 17.8 | 142.2 | 0.0001 | -41.74 | 0.026 | 8.84 |
| 340 | 17.7 | 142.3 | 0.0001 | -42.08 | 0.025 | 8.67 |
| 341 | 17.3 | 142.7 | 0.0001 | -42.44 | 0.024 | 8.50 |
| 342 | 17.1 | 142.9 | 0.0001 | -42.81 | 0.023 | 8.32 |
| 343 | 16.9 | 143.1 | 0.0000 | -43.20 | 0.022 | 8.14 |
| 344 | 17.0 | 143.0 | 0.0000 | -43.60 | 0.021 | 7.94 |
| 345 | 25.7 | 134.3 | 0.0000 | -44.02 | 0.020 | 7.50 |
| 346 | 31.4 | 128.6 | 0.0000 | -44.02 | 0.020 | 7.36 |
| 347 | 31.7 | 128.3 | 0.0000 | -44.02 | 0.020 | 7.35 |
| 348 | 30.0 | 130.0 | 0.0000 | -44.02 | 0.020 | 7.39 |
| 349 | 28.5 | 131.5 | 0.0000 | -44.02 | 0.020 | 7.43 |
| 350 | 27.4 | 132.6 | 0.0000 | -44.02 | 0.020 | 7.46 |
| 351 | 26.1 | 133.9 | 0.0000 | -44.02 | 0.020 | 7.49 |
| 352 | 24.0 | 136.0 | 0.0000 | -44.02 | 0.020 | 7.55 |
| 353 | 21.2 | 138.8 | 0.0000 | -44.02 | 0.020 | 7.63 |
| 354 | 16.9 | 143.1 | 0.0000 | -44.02 | 0.020 | 7.75 |
| 355 | 12.3 | 147.7 | 0.0000 | -44.02 | 0.020 | 7.89 |
| 356 | 9.2 | 150.8 | 0.0000 | -44.02 | 0.020 | 7.97 |
| 357 | 7.1 | 152.9 | 0.0000 | -44.02 | 0.020 | 8.04 |
| 358 | 6.5 | 153.5 | 0.0000 | -44.02 | 0.020 | 8.05 |
| 359 | 5.7 | 154.3 | 0.0000 | -44.02 | 0.020 | 8.08 |

Ave EI = 46.08 M HAAT= 113.92 M AMSL= 160
Area by numeric integration= 2967.41 Sq km.