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[GeoMain]
adm=USA
sat_name=SKYTERRA-1
long_nom=-95.000
n_diag=1

[COHeader]
beam_id=RD7
emi_rcp=E
polar_disc=C
reason=C
n_bore=1
n_cont=7

[B1]
gain=0.00
p=-81.817;45.335

[C1]
gain=-2.00
n_point=51
p1=-78.500;48.678
p2=-78.385;48.500
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p9=-78.500;45.400
p10=-78.783;45.000
p11=-79.000;44.658
p12=-79.110;44.500
p13=-79.500;44.058
p14=-79.550;44.000
p15=-80.000;43.590
p16=-80.140;43.500
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p18=-80.912;43.000
p19=-81.000;42.965
p20=-81.500;42.798
p21=-82.000;42.752
p22=-82.500;42.720
p23=-83.000;42.861
p24=-83.416;43.000
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p26=-83.873;43.500
p27=-84.000;43.650
p28=-84.236;44.000
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p30=-84.428;45.000
p31=-84.411;45.500
p32=-84.305;46.000
p33=-84.194;46.500

p34=-84.000;46.859
p35=-83.916;47.000
p36=-83.647;47.500
p37=-83.500;47.715
p38=-83.230;48.000
p39=-83.000;48.214
p40=-82.636;48.500
p41=-82.500;48.607
p42=-82.000;49.000
p43=-82.000;49.000
p44=-81.500;49.183
p45=-81.000;49.336
p46=-80.500;49.464
p47=-80.000;49.417
p48=-79.500;49.366
p49=-79.000;49.083
p50=-78.881;49.000
p51=-78.500;48.678

[C2]

gain=-4.00
n_point=73
p1=-77.000;49.564
p2=-76.959;49.500
p3=-76.810;49.000
p4=-76.704;48.500
p5=-76.613;48.000
p6=-76.661;47.500
p7=-76.731;47.000
p8=-76.847;46.500
p9=-77.000;46.039
p10=-77.015;46.000
p11=-77.210;45.500
p12=-77.466;45.000
p13=-77.500;44.938
p14=-77.783;44.500
p15=-78.000;44.187
p16=-78.141;44.000
p17=-78.500;43.595
p18=-78.582;43.500
p19=-79.000;43.044
p20=-79.046;43.000
p21=-79.500;42.652
p22=-79.736;42.500
p23=-80.000;42.331
p24=-80.500;42.003
p25=-80.508;42.000
p26=-81.000;41.829
p27=-81.500;41.666
p28=-82.000;41.573
p29=-82.500;41.531
p30=-83.000;41.566
p31=-83.500;41.678
p32=-84.000;41.894
p33=-84.182;42.000
p34=-84.500;42.230
p35=-84.746;42.500

p36=-85.000;42.830
p37=-85.125;43.000
p38=-85.344;43.500
p39=-85.500;43.897
p40=-85.530;44.000
p41=-85.565;44.500
p42=-85.596;45.000
p43=-85.562;45.500
p44=-85.500;45.849
p45=-85.473;46.000
p46=-85.373;46.500
p47=-85.163;47.000
p48=-85.000;47.383
p49=-84.945;47.500
p50=-84.677;48.000
p51=-84.500;48.265
p52=-84.293;48.500
p53=-84.000;48.872
p54=-83.888;49.000
p55=-83.500;49.342
p56=-83.323;49.500
p57=-83.000;49.765
p58=-82.623;50.000
p59=-82.500;50.085
p60=-82.000;50.367
p61=-81.764;50.500
p62=-81.500;50.616
p63=-81.000;50.747
p64=-80.500;50.857
p65=-80.000;50.956
p66=-79.500;50.933
p67=-79.000;50.910
p68=-78.500;50.768
p69=-78.000;50.550
p70=-77.918;50.500
p71=-77.500;50.125
p72=-77.394;50.000
p73=-77.000;49.564

[C3]

gain=-6.00
n_point=89
p1=-76.000;50.375
p2=-75.833;50.000
p3=-75.632;49.500
p4=-75.602;49.000
p5=-75.574;48.500
p6=-75.575;48.000
p7=-75.658;47.500
p8=-75.741;47.000
p9=-75.896;46.500
p10=-76.000;46.162
p11=-76.058;46.000
p12=-76.270;45.500
p13=-76.500;45.051
p14=-76.528;45.000
p15=-76.810;44.500

p16=-77.000;44.222
p17=-77.153;44.000
p18=-77.500;43.548
p19=-77.537;43.500
p20=-77.945;43.000
p21=-78.000;42.945
p22=-78.484;42.500
p23=-78.500;42.485
p24=-79.000;42.066
p25=-79.077;42.000
p26=-79.500;41.718
p27=-79.894;41.500
p28=-80.000;41.441
p29=-80.500;41.194
p30=-80.947;41.000
p31=-81.000;40.980
p32=-81.500;40.848
p33=-82.000;40.731
p34=-82.500;40.695
p35=-83.000;40.677
p36=-83.500;40.763
p37=-84.000;40.880
p38=-84.261;41.000
p39=-84.500;41.124
p40=-85.000;41.448
p41=-85.060;41.500
p42=-85.500;41.948
p43=-85.541;42.000
p44=-85.843;42.500
p45=-86.000;42.809
p46=-86.093;43.000
p47=-86.246;43.500
p48=-86.387;44.000
p49=-86.409;44.500
p50=-86.429;45.000
p51=-86.391;45.500
p52=-86.319;46.000
p53=-86.234;46.500
p54=-86.064;47.000
p55=-86.000;47.186
p56=-85.874;47.500
p57=-85.640;48.000
p58=-85.500;48.270
p59=-85.349;48.500
p60=-85.017;49.000
p61=-85.000;49.020
p62=-84.579;49.500
p63=-84.500;49.586
p64=-84.112;50.000
p65=-84.000;50.122
p66=-83.550;50.500
p67=-83.500;50.534
p68=-83.000;50.851
p69=-82.765;51.000
p70=-82.500;51.168
p71=-82.000;51.394
p72=-81.753;51.500

p73=-81.500;51.610
p74=-81.000;51.818
p75=-80.500;51.936
p76=-80.203;52.000
p77=-80.000;52.036
p78=-79.500;52.101
p79=-79.000;52.093
p80=-78.500;52.084
p81=-78.046;52.000
p82=-78.000;51.988
p83=-77.500;51.817
p84=-77.000;51.547
p85=-76.944;51.500
p86=-76.500;51.139
p87=-76.362;51.000
p88=-76.056;50.500
p89=-76.000;50.375

[C4]

gain=-8.00
n_point=103
p1=-75.000;51.040
p2=-74.979;51.000
p3=-74.866;50.500
p4=-74.765;50.000
p5=-74.647;49.500
p6=-74.668;49.000
p7=-74.685;48.500
p8=-74.734;48.000
p9=-74.847;47.500
p10=-74.950;47.000
p11=-75.000;46.850
p12=-75.116;46.500
p13=-75.300;46.000
p14=-75.497;45.500
p15=-75.500;45.494
p16=-75.758;45.000
p17=-76.000;44.530
p18=-76.016;44.500
p19=-76.338;44.000
p20=-76.500;43.766
p21=-76.691;43.500
p22=-77.000;43.086
p23=-77.073;43.000
p24=-77.500;42.563
p25=-77.564;42.500
p26=-78.000;42.067
p27=-78.068;42.000
p28=-78.500;41.660
p29=-78.737;41.500
p30=-79.000;41.319
p31=-79.489;41.000
p32=-79.500;40.994
p33=-80.000;40.736
p34=-80.500;40.521
p35=-80.549;40.500
p36=-81.000;40.329

p37=-81.500;40.204
p38=-82.000;40.084
p39=-82.500;40.041
p40=-83.000;40.010
p41=-83.500;40.070
p42=-84.000;40.145
p43=-84.500;40.327
p44=-84.939;40.500
p45=-85.000;40.532
p46=-85.500;40.935
p47=-85.573;41.000
p48=-86.000;41.438
p49=-86.049;41.500
p50=-86.375;42.000
p51=-86.500;42.221
p52=-86.622;42.500
p53=-86.806;43.000
p54=-86.920;43.500
p55=-87.000;43.845
p56=-87.035;44.000
p57=-87.059;44.500
p58=-87.083;45.000
p59=-87.059;45.500
p60=-87.008;46.000
p61=-87.000;46.071
p62=-86.934;46.500
p63=-86.766;47.000
p64=-86.602;47.500
p65=-86.500;47.759
p66=-86.395;48.000
p67=-86.135;48.500
p68=-86.000;48.757
p69=-85.871;49.000
p70=-85.517;49.500
p71=-85.500;49.523
p72=-85.103;50.000
p73=-85.000;50.133
p74=-84.662;50.500
p75=-84.500;50.633
p76=-84.054;51.000
p77=-84.000;51.045
p78=-83.500;51.429
p79=-83.388;51.500
p80=-83.000;51.749
p81=-82.611;52.000
p82=-82.500;52.056
p83=-82.000;52.291
p84=-81.500;52.468
p85=-81.412;52.500
p86=-81.000;52.646
p87=-80.500;52.799
p88=-80.000;52.890
p89=-79.500;52.983
p90=-79.302;53.000
p91=-79.000;53.029
p92=-78.500;53.025
p93=-78.000;53.021

p94=-77.887;53.000
p95=-77.500;52.923
p96=-77.000;52.810
p97=-76.500;52.634
p98=-76.246;52.500
p99=-76.000;52.331
p100=-75.638;52.000
p101=-75.500;51.809
p102=-75.314;51.500
p103=-75.000;51.040

[C5]

gain=-10.00
n_point=115
p1=-74.000;50.882
p2=-73.942;50.500
p3=-73.904;50.000
p4=-73.882;49.500
p5=-73.923;49.000
p6=-73.950;48.500
p7=-74.000;48.007
p8=-74.001;48.000
p9=-74.137;47.500
p10=-74.254;47.000
p11=-74.420;46.500
p12=-74.500;46.283
p13=-74.615;46.000
p14=-74.805;45.500
p15=-75.000;45.107
p16=-75.059;45.000
p17=-75.305;44.500
p18=-75.500;44.177
p19=-75.618;44.000
p20=-75.952;43.500
p21=-76.000;43.432
p22=-76.328;43.000
p23=-76.500;42.804
p24=-76.771;42.500
p25=-77.000;42.246
p26=-77.228;42.000
p27=-77.500;41.761
p28=-77.832;41.500
p29=-78.000;41.367
p30=-78.475;41.000
p31=-78.500;40.984
p32=-79.000;40.678
p33=-79.322;40.500
p34=-79.500;40.410
p35=-80.000;40.161
p36=-80.399;40.000
p37=-80.500;39.964
p38=-81.000;39.792
p39=-81.500;39.663
p40=-82.000;39.549
p41=-82.391;39.500
p42=-82.500;39.489
p43=-83.000;39.463

p44=-83.500;39.486
p45=-83.642;39.500
p46=-84.000;39.547
p47=-84.500;39.698
p48=-85.000;39.878
p49=-85.206;40.000
p50=-85.500;40.188
p51=-85.966;40.500
p52=-86.000;40.531
p53=-86.384;41.000
p54=-86.500;41.146
p55=-86.741;41.500
p56=-87.000;41.987
p57=-87.006;42.000
p58=-87.205;42.500
p59=-87.390;43.000
p60=-87.500;43.424
p61=-87.514;43.500
p62=-87.586;44.000
p63=-87.598;44.500
p64=-87.614;45.000
p65=-87.588;45.500
p66=-87.535;46.000
p67=-87.500;46.274
p68=-87.470;46.500
p69=-87.343;47.000
p70=-87.212;47.500
p71=-87.037;48.000
p72=-87.000;48.090
p73=-86.810;48.500
p74=-86.592;49.000
p75=-86.500;49.161
p76=-86.262;49.500
p77=-86.000;49.860
p78=-85.897;50.000
p79=-85.522;50.500
p80=-85.500;50.523
p81=-85.030;51.000
p82=-85.000;51.031
p83=-84.500;51.453
p84=-84.444;51.500
p85=-84.000;51.867
p86=-83.841;52.000
p87=-83.500;52.225
p88=-83.000;52.497
p89=-82.994;52.500
p90=-82.500;52.755
p91=-82.030;53.000
p92=-82.000;53.016
p93=-81.500;53.225
p94=-81.000;53.410
p95=-80.758;53.500
p96=-80.500;53.579
p97=-80.000;53.689
p98=-79.500;53.774
p99=-79.000;53.862
p100=-78.500;53.883

p101=-78.000;53.878
p102=-77.500;53.865
p103=-77.000;53.764
p104=-76.500;53.662
p105=-76.037;53.500
p106=-76.000;53.483
p107=-75.500;53.207
p108=-75.207;53.000
p109=-75.000;52.832
p110=-74.669;52.500
p111=-74.500;52.247
p112=-74.380;52.000
p113=-74.211;51.500
p114=-74.023;51.000
p115=-74.000;50.882

[C6]

gain=-15.00
n_point=137
p1=-72.500;52.848
p2=-72.407;52.500
p3=-72.373;52.000
p4=-72.315;51.500
p5=-72.300;51.000
p6=-72.330;50.500
p7=-72.363;50.000
p8=-72.389;49.500
p9=-72.455;49.000
p10=-72.488;48.500
p11=-72.500;48.438
p12=-72.599;48.000
p13=-72.723;47.500
p14=-72.824;47.000
p15=-72.991;46.500
p16=-73.000;46.468
p17=-73.142;46.000
p18=-73.311;45.500
p19=-73.500;45.029
p20=-73.512;45.000
p21=-73.703;44.500
p22=-73.961;44.000
p23=-74.000;43.920
p24=-74.222;43.500
p25=-74.500;43.037
p26=-74.524;43.000
p27=-74.878;42.500
p28=-75.000;42.336
p29=-75.252;42.000
p30=-75.500;41.737
p31=-75.720;41.500
p32=-76.000;41.212
p33=-76.239;41.000
p34=-76.500;40.794
p35=-76.924;40.500
p36=-77.000;40.454
p37=-77.500;40.129
p38=-77.732;40.000

p39=-78.000;39.861
p40=-78.500;39.615
p41=-78.751;39.500
p42=-79.000;39.400
p43=-79.500;39.221
p44=-80.000;39.049
p45=-80.156;39.000
p46=-80.500;38.903
p47=-81.000;38.776
p48=-81.500;38.662
p49=-82.000;38.571
p50=-82.434;38.500
p51=-82.500;38.493
p52=-83.000;38.467
p53=-83.500;38.453
p54=-84.000;38.476
p55=-84.258;38.500
p56=-84.500;38.534
p57=-85.000;38.662
p58=-85.500;38.845
p59=-85.830;39.000
p60=-86.000;39.082
p61=-86.500;39.422
p62=-86.594;39.500
p63=-87.000;39.894
p64=-87.082;40.000
p65=-87.431;40.500
p66=-87.500;40.620
p67=-87.694;41.000
p68=-87.932;41.500
p69=-88.000;41.681
p70=-88.100;42.000
p71=-88.257;42.500
p72=-88.406;43.000
p73=-88.500;43.410
p74=-88.513;43.500
p75=-88.576;44.000
p76=-88.594;44.500
p77=-88.624;45.000
p78=-88.625;45.500
p79=-88.610;46.000
p80=-88.587;46.500
p81=-88.516;47.000
p82=-88.500;47.118
p83=-88.443;47.500
p84=-88.333;48.000
p85=-88.194;48.500
p86=-88.041;49.000
p87=-88.000;49.096
p88=-87.811;49.500
p89=-87.540;50.000
p90=-87.500;50.064
p91=-87.247;50.500
p92=-87.000;50.834
p93=-86.869;51.000
p94=-86.500;51.446
p95=-86.451;51.500

p96=-86.000;51.973
p97=-85.973;52.000
p98=-85.500;52.406
p99=-85.384;52.500
p100=-85.000;52.808
p101=-84.747;53.000
p102=-84.500;53.185
p103=-84.038;53.500
p104=-84.000;53.521
p105=-83.500;53.789
p106=-83.089;54.000
p107=-83.000;54.045
p108=-82.500;54.269
p109=-82.000;54.479
p110=-81.951;54.500
p111=-81.500;54.693
p112=-81.000;54.888
p113=-80.677;55.000
p114=-80.500;55.048
p115=-80.000;55.194
p116=-79.500;55.338
p117=-79.000;55.442
p118=-78.736;55.500
p119=-78.500;55.540
p120=-78.000;55.605
p121=-77.500;55.585
p122=-77.000;55.562
p123=-76.500;55.507
p124=-76.470;55.500
p125=-76.000;55.334
p126=-75.500;55.168
p127=-75.102;55.000
p128=-75.000;54.960
p129=-74.500;54.777
p130=-74.000;54.561
p131=-73.877;54.500
p132=-73.500;54.310
p133=-73.050;54.000
p134=-73.000;53.900
p135=-72.822;53.500
p136=-72.556;53.000
p137=-72.500;52.848

[C7]

gain=-20.00
n_point=161
p1=-71.000;53.609
p2=-70.979;53.500
p3=-70.918;53.000
p4=-70.970;52.500
p5=-71.000;52.266
p6=-71.034;52.000
p7=-71.080;51.500
p8=-71.111;51.000
p9=-71.221;50.500
p10=-71.251;50.000
p11=-71.299;49.500

p12=-71.363;49.000
p13=-71.374;48.500
p14=-71.437;48.000
p15=-71.480;47.500
p16=-71.475;47.000
p17=-71.500;46.798
p18=-71.538;46.500
p19=-71.560;46.000
p20=-71.604;45.500
p21=-71.573;45.000
p22=-71.526;44.500
p23=-71.570;44.000
p24=-71.599;43.500
p25=-71.781;43.000
p26=-71.972;42.500
p27=-72.000;42.430
p28=-72.221;42.000
p29=-72.500;41.558
p30=-72.535;41.500
p31=-72.860;41.000
p32=-73.000;40.829
p33=-73.252;40.500
p34=-73.500;40.168
p35=-73.629;40.000
p36=-74.000;39.595
p37=-74.112;39.500
p38=-74.500;39.140
p39=-74.655;39.000
p40=-75.000;38.747
p41=-75.302;38.500
p42=-75.500;38.335
p43=-76.000;38.038
p44=-76.061;38.000
p45=-76.500;37.774
p46=-77.000;37.602
p47=-77.500;37.556
p48=-78.000;37.690
p49=-78.500;37.921
p50=-78.704;38.000
p51=-79.000;38.055
p52=-79.500;38.104
p53=-80.000;38.097
p54=-80.500;38.084
p55=-81.000;38.037
p56=-81.398;38.000
p57=-81.500;37.991
p58=-82.000;37.935
p59=-82.500;37.885
p60=-83.000;37.834
p61=-83.500;37.776
p62=-84.000;37.758
p63=-84.500;37.749
p64=-85.000;37.773
p65=-85.500;37.809
p66=-86.000;37.875
p67=-86.500;37.988
p68=-86.538;38.000

p69=-87.000;38.308
p70=-87.174;38.500
p71=-87.500;38.717
p72=-87.762;39.000
p73=-87.941;39.500
p74=-88.000;39.586
p75=-88.260;40.000
p76=-88.390;40.500
p77=-88.500;40.813
p78=-88.564;41.000
p79=-88.700;41.500
p80=-88.801;42.000
p81=-88.903;42.500
p82=-88.995;43.000
p83=-89.000;43.028
p84=-89.091;43.500
p85=-89.217;44.000
p86=-89.295;44.500
p87=-89.399;45.000
p88=-89.472;45.500
p89=-89.500;45.711
p90=-89.549;46.000
p91=-89.647;46.500
p92=-89.704;47.000
p93=-89.800;47.500
p94=-89.881;48.000
p95=-89.976;48.500
p96=-90.000;48.587
p97=-90.500;48.778
p98=-91.000;48.719
p99=-91.398;49.000
p100=-91.390;49.500
p101=-91.371;50.000
p102=-91.287;50.500
p103=-91.095;51.000
p104=-91.000;51.277
p105=-90.819;51.500
p106=-90.500;51.935
p107=-90.456;52.000
p108=-90.013;52.500
p109=-90.000;52.517
p110=-89.643;53.000
p111=-89.500;53.210
p112=-89.000;53.382
p113=-88.652;53.500
p114=-88.500;53.541
p115=-88.000;53.677
p116=-87.500;53.731
p117=-87.000;53.778
p118=-86.667;54.000
p119=-86.500;54.071
p120=-86.000;54.274
p121=-85.500;54.377
p122=-85.240;54.500
p123=-85.000;54.592
p124=-84.500;54.788
p125=-84.000;54.934

p126=-83.855;55.000
p127=-83.500;55.138
p128=-83.000;55.324
p129=-82.500;55.480
p130=-82.436;55.500
p131=-82.000;55.620
p132=-81.500;55.756
p133=-81.000;55.885
p134=-80.561;56.000
p135=-80.500;56.016
p136=-80.000;56.163
p137=-79.500;56.319
p138=-79.000;56.473
p139=-78.889;56.500
p140=-78.500;56.595
p141=-78.000;56.723
p142=-77.500;56.846
p143=-77.000;56.813
p144=-76.500;56.735
p145=-76.000;56.619
p146=-75.802;56.500
p147=-75.500;56.355
p148=-75.000;56.173
p149=-74.500;56.041
p150=-74.319;56.000
p151=-74.000;55.924
p152=-73.500;55.803
p153=-73.000;55.699
p154=-72.500;55.538
p155=-72.421;55.500
p156=-72.000;55.209
p157=-71.745;55.000
p158=-71.500;54.771
p159=-71.274;54.500
p160=-71.084;54.000
p161=-71.000;53.609