

[FormatInfo]  
format\_ver=1

[GeoMain]  
adm=USA  
sat\_name=SKYTERRA-1  
long\_nom=-95.000  
n\_diag=1

[COHeader]  
beam\_id=RU9  
emi\_rcp=R  
polar\_disc=C  
reason=C  
n\_bore=1  
n\_cont=9

[B1]  
gain=0.00  
p=-66.707;45.815

[C1]  
gain=-2.00  
n\_point=55  
p1=-62.500;49.139  
p2=-62.263;49.000  
p3=-62.081;48.500  
p4=-62.293;48.000  
p5=-62.500;47.587  
p6=-62.555;47.500  
p7=-62.799;47.000  
p8=-63.000;46.563  
p9=-63.033;46.500  
p10=-63.245;46.000  
p11=-63.500;45.544  
p12=-63.525;45.500  
p13=-63.919;45.000  
p14=-64.000;44.914  
p15=-64.391;44.500  
p16=-64.500;44.409  
p17=-65.000;44.024  
p18=-65.034;44.000  
p19=-65.500;43.700  
p20=-65.879;43.500  
p21=-66.000;43.455  
p22=-66.500;43.315  
p23=-67.000;43.246  
p24=-67.500;43.217  
p25=-68.000;43.273  
p26=-68.500;43.428  
p27=-68.649;43.500  
p28=-69.000;43.743  
p29=-69.269;44.000  
p30=-69.500;44.396  
p31=-69.545;44.500  
p32=-69.671;45.000  
p33=-69.662;45.500

p34=-69.500;45.963  
p35=-69.486;46.000  
p36=-69.254;46.500  
p37=-69.000;46.817  
p38=-68.842;47.000  
p39=-68.500;47.372  
p40=-68.357;47.500  
p41=-68.000;47.810  
p42=-67.721;48.000  
p43=-67.500;48.165  
p44=-67.000;48.452  
p45=-66.895;48.500  
p46=-66.500;48.687  
p47=-66.000;48.831  
p48=-65.500;48.924  
p49=-65.000;48.991  
p50=-64.930;49.000  
p51=-64.500;49.052  
p52=-64.000;49.111  
p53=-63.500;49.175  
p54=-63.000;49.187  
p55=-62.500;49.139

[C2]

gain=-4.00  
n\_point=73  
p1=-61.000;49.609  
p2=-60.923;49.500  
p3=-60.952;49.000  
p4=-61.000;48.740  
p5=-61.054;48.500  
p6=-61.160;48.000  
p7=-61.214;47.500  
p8=-61.068;47.000  
p9=-61.142;46.500  
p10=-61.393;46.000  
p11=-61.500;45.888  
p12=-61.858;45.500  
p13=-62.000;45.371  
p14=-62.388;45.000  
p15=-62.500;44.900  
p16=-62.926;44.500  
p17=-63.000;44.432  
p18=-63.477;44.000  
p19=-63.500;43.980  
p20=-64.000;43.549  
p21=-64.063;43.500  
p22=-64.500;43.201  
p23=-64.840;43.000  
p24=-65.000;42.915  
p25=-65.500;42.696  
p26=-66.000;42.533  
p27=-66.133;42.500  
p28=-66.500;42.415  
p29=-67.000;42.335  
p30=-67.500;42.299  
p31=-68.000;42.288

p32=-68.500;42.322  
p33=-69.000;42.412  
p34=-69.301;42.500  
p35=-69.500;42.590  
p36=-70.000;42.954  
p37=-70.047;43.000  
p38=-70.433;43.500  
p39=-70.500;43.623  
p40=-70.658;44.000  
p41=-70.743;44.500  
p42=-70.758;45.000  
p43=-70.700;45.500  
p44=-70.535;46.000  
p45=-70.500;46.098  
p46=-70.332;46.500  
p47=-70.028;47.000  
p48=-70.000;47.043  
p49=-69.658;47.500  
p50=-69.500;47.695  
p51=-69.227;48.000  
p52=-69.000;48.236  
p53=-68.742;48.500  
p54=-68.500;48.738  
p55=-68.213;49.000  
p56=-68.000;49.193  
p57=-67.617;49.500  
p58=-67.500;49.602  
p59=-67.000;49.974  
p60=-66.963;50.000  
p61=-66.500;50.264  
p62=-66.000;50.471  
p63=-65.500;50.484  
p64=-65.000;50.344  
p65=-64.500;50.106  
p66=-64.183;50.000  
p67=-64.000;49.965  
p68=-63.500;49.923  
p69=-63.000;49.918  
p70=-62.500;49.921  
p71=-62.000;49.927  
p72=-61.500;49.864  
p73=-61.000;49.609

[C3]

gain=-6.00  
n\_point=89  
p1=-60.000;47.565  
p2=-59.959;47.500  
p3=-59.585;47.000  
p4=-59.743;46.500  
p5=-60.000;46.200  
p6=-60.162;46.000  
p7=-60.500;45.674  
p8=-60.680;45.500  
p9=-61.000;45.223  
p10=-61.257;45.000  
p11=-61.500;44.782

p12=-61.819;44.500  
p13=-62.000;44.317  
p14=-62.326;44.000  
p15=-62.500;43.822  
p16=-62.829;43.500  
p17=-63.000;43.325  
p18=-63.340;43.000  
p19=-63.500;42.871  
p20=-64.000;42.517  
p21=-64.027;42.500  
p22=-64.500;42.228  
p23=-64.951;42.000  
p24=-65.000;41.980  
p25=-65.500;41.832  
p26=-66.000;41.708  
p27=-66.500;41.629  
p28=-67.000;41.578  
p29=-67.500;41.553  
p30=-68.000;41.555  
p31=-68.500;41.574  
p32=-69.000;41.623  
p33=-69.500;41.720  
p34=-70.000;41.878  
p35=-70.262;42.000  
p36=-70.500;42.147  
p37=-70.907;42.500  
p38=-71.000;42.622  
p39=-71.229;43.000  
p40=-71.424;43.500  
p41=-71.500;43.795  
p42=-71.541;44.000  
p43=-71.579;44.500  
p44=-71.533;45.000  
p45=-71.500;45.257  
p46=-71.468;45.500  
p47=-71.322;46.000  
p48=-71.138;46.500  
p49=-71.000;46.821  
p50=-70.909;47.000  
p51=-70.601;47.500  
p52=-70.500;47.658  
p53=-70.252;48.000  
p54=-70.000;48.302  
p55=-69.828;48.500  
p56=-69.500;48.860  
p57=-69.367;49.000  
p58=-69.000;49.347  
p59=-68.831;49.500  
p60=-68.500;49.801  
p61=-68.276;50.000  
p62=-68.000;50.201  
p63=-67.589;50.500  
p64=-67.500;50.563  
p65=-67.000;50.915  
p66=-66.863;51.000  
p67=-66.500;51.169  
p68=-66.000;51.370

p69=-65.664;51.500  
p70=-65.500;51.557  
p71=-65.000;51.621  
p72=-64.500;51.581  
p73=-64.364;51.500  
p74=-64.000;51.111  
p75=-63.920;51.000  
p76=-63.500;50.679  
p77=-63.000;50.527  
p78=-62.638;50.500  
p79=-62.500;50.490  
p80=-62.000;50.484  
p81=-61.500;50.485  
p82=-61.000;50.439  
p83=-60.500;50.299  
p84=-60.198;50.000  
p85=-60.180;49.500  
p86=-60.267;49.000  
p87=-60.351;48.500  
p88=-60.190;48.000  
p89=-60.000;47.565

[C4]

gain=-8.00  
n\_point=103  
p1=-58.500;47.024  
p2=-58.497;47.000  
p3=-58.500;46.994  
p4=-58.769;46.500  
p5=-59.000;46.254  
p6=-59.242;46.000  
p7=-59.500;45.738  
p8=-59.750;45.500  
p9=-60.000;45.266  
p10=-60.304;45.000  
p11=-60.500;44.808  
p12=-60.835;44.500  
p13=-61.000;44.321  
p14=-61.307;44.000  
p15=-61.500;43.783  
p16=-61.760;43.500  
p17=-62.000;43.227  
p18=-62.202;43.000  
p19=-62.500;42.735  
p20=-62.764;42.500  
p21=-63.000;42.317  
p22=-63.436;42.000  
p23=-63.500;41.960  
p24=-64.000;41.687  
p25=-64.367;41.500  
p26=-64.500;41.442  
p27=-65.000;41.265  
p28=-65.500;41.097  
p29=-65.903;41.000  
p30=-66.000;40.979  
p31=-66.500;40.890  
p32=-67.000;40.839

p33=-67.500;40.823  
p34=-68.000;40.837  
p35=-68.500;40.881  
p36=-69.000;40.945  
p37=-69.366;41.000  
p38=-69.500;41.021  
p39=-70.000;41.135  
p40=-70.500;41.309  
p41=-70.893;41.500  
p42=-71.000;41.568  
p43=-71.498;42.000  
p44=-71.500;42.002  
p45=-71.844;42.500  
p46=-72.000;42.846  
p47=-72.055;43.000  
p48=-72.160;43.500  
p49=-72.203;44.000  
p50=-72.191;44.500  
p51=-72.158;45.000  
p52=-72.091;45.500  
p53=-72.000;45.879  
p54=-71.968;46.000  
p55=-71.829;46.500  
p56=-71.644;47.000  
p57=-71.500;47.339  
p58=-71.422;47.500  
p59=-71.160;48.000  
p60=-71.000;48.248  
p61=-70.817;48.500  
p62=-70.500;48.918  
p63=-70.432;49.000  
p64=-70.000;49.432  
p65=-69.927;49.500  
p66=-69.500;49.888  
p67=-69.377;50.000  
p68=-69.000;50.277  
p69=-68.699;50.500  
p70=-68.500;50.639  
p71=-68.000;50.997  
p72=-67.996;51.000  
p73=-67.500;51.259  
p74=-67.013;51.500  
p75=-67.000;51.506  
p76=-66.500;51.754  
p77=-66.000;51.987  
p78=-65.964;52.000  
p79=-65.500;52.116  
p80=-65.000;52.237  
p81=-64.500;52.308  
p82=-64.000;52.266  
p83=-63.575;52.000  
p84=-63.500;51.904  
p85=-63.262;51.500  
p86=-63.000;51.140  
p87=-62.833;51.000  
p88=-62.500;50.890  
p89=-62.000;50.804

p90=-61.500;50.780  
p91=-61.000;50.767  
p92=-60.500;50.750  
p93=-60.000;50.676  
p94=-59.631;50.500  
p95=-59.568;50.000  
p96=-59.676;49.500  
p97=-59.737;49.000  
p98=-59.716;48.500  
p99=-59.500;48.224  
p100=-59.171;48.000  
p101=-59.000;47.834  
p102=-58.604;47.500  
p103=-58.500;47.024

[C5]

gain=-10.00  
n\_point=111  
p1=-58.000;48.014  
p2=-57.957;48.000  
p3=-57.584;47.500  
p4=-57.763;47.000  
p5=-58.000;46.551  
p6=-58.028;46.500  
p7=-58.480;46.000  
p8=-58.500;45.976  
p9=-58.949;45.500  
p10=-59.000;45.442  
p11=-59.444;45.000  
p12=-59.500;44.936  
p13=-59.919;44.500  
p14=-60.000;44.406  
p15=-60.364;44.000  
p16=-60.500;43.847  
p17=-60.809;43.500  
p18=-61.000;43.290  
p19=-61.257;43.000  
p20=-61.500;42.775  
p21=-61.792;42.500  
p22=-62.000;42.329  
p23=-62.397;42.000  
p24=-62.500;41.924  
p25=-63.000;41.593  
p26=-63.146;41.500  
p27=-63.500;41.307  
p28=-64.000;41.056  
p29=-64.125;41.000  
p30=-64.500;40.845  
p31=-65.000;40.653  
p32=-65.473;40.500  
p33=-65.500;40.492  
p34=-66.000;40.365  
p35=-66.500;40.269  
p36=-67.000;40.202  
p37=-67.500;40.162  
p38=-68.000;40.169  
p39=-68.500;40.214

p40=-69.000;40.300  
p41=-69.500;40.417  
p42=-69.809;40.500  
p43=-70.000;40.550  
p44=-70.500;40.695  
p45=-71.000;40.866  
p46=-71.306;41.000  
p47=-71.500;41.116  
p48=-71.986;41.500  
p49=-72.000;41.516  
p50=-72.346;42.000  
p51=-72.500;42.310  
p52=-72.574;42.500  
p53=-72.681;43.000  
p54=-72.721;43.500  
p55=-72.740;44.000  
p56=-72.722;44.500  
p57=-72.671;45.000  
p58=-72.629;45.500  
p59=-72.539;46.000  
p60=-72.500;46.202  
p61=-72.435;46.500  
p62=-72.322;47.000  
p63=-72.169;47.500  
p64=-72.024;48.000  
p65=-72.000;48.055  
p66=-71.766;48.500  
p67=-71.508;49.000  
p68=-71.500;49.012  
p69=-71.091;49.500  
p70=-71.000;49.613  
p71=-70.625;50.000  
p72=-70.500;50.108  
p73=-70.008;50.500  
p74=-70.000;50.506  
p75=-69.500;50.865  
p76=-69.295;51.000  
p77=-69.000;51.168  
p78=-68.500;51.411  
p79=-68.314;51.500  
p80=-68.000;51.644  
p81=-67.500;51.878  
p82=-67.220;52.000  
p83=-67.000;52.070  
p84=-66.500;52.221  
p85=-66.000;52.378  
p86=-65.599;52.500  
p87=-65.500;52.529  
p88=-65.000;52.643  
p89=-64.500;52.751  
p90=-64.000;52.791  
p91=-63.500;52.759  
p92=-63.046;52.500  
p93=-63.000;52.436  
p94=-62.817;52.000  
p95=-62.536;51.500  
p96=-62.500;51.468

p97=-62.000;51.172  
p98=-61.500;51.080  
p99=-61.000;51.060  
p100=-60.500;51.059  
p101=-60.000;51.064  
p102=-59.500;51.005  
p103=-59.479;51.000  
p104=-59.074;50.500  
p105=-59.149;50.000  
p106=-59.298;49.500  
p107=-59.270;49.000  
p108=-59.081;48.500  
p109=-59.000;48.437  
p110=-58.500;48.177  
p111=-58.000;48.014

[C6]

gain=-15.00  
n\_point=135  
p1=-56.500;48.584  
p2=-56.161;48.500  
p3=-56.052;48.000  
p4=-56.207;47.500  
p5=-56.494;47.000  
p6=-56.500;46.988  
p7=-56.788;46.500  
p8=-57.000;46.107  
p9=-57.072;46.000  
p10=-57.310;45.500  
p11=-57.500;45.092  
p12=-57.551;45.000  
p13=-57.929;44.500  
p14=-58.000;44.415  
p15=-58.349;44.000  
p16=-58.500;43.848  
p17=-58.851;43.500  
p18=-59.000;43.348  
p19=-59.349;43.000  
p20=-59.500;42.848  
p21=-59.859;42.500  
p22=-60.000;42.361  
p23=-60.389;42.000  
p24=-60.500;41.896  
p25=-60.952;41.500  
p26=-61.000;41.459  
p27=-61.500;41.060  
p28=-61.583;41.000  
p29=-62.000;40.704  
p30=-62.311;40.500  
p31=-62.500;40.378  
p32=-63.000;40.081  
p33=-63.162;40.000  
p34=-63.500;39.850  
p35=-64.000;39.647  
p36=-64.447;39.500  
p37=-64.500;39.484  
p38=-65.000;39.349

p39=-65.500;39.231  
p40=-66.000;39.129  
p41=-66.500;39.044  
p42=-66.873;39.000  
p43=-67.000;38.987  
p44=-67.500;38.951  
p45=-68.000;38.944  
p46=-68.500;38.967  
p47=-68.867;39.000  
p48=-69.000;39.015  
p49=-69.500;39.117  
p50=-70.000;39.270  
p51=-70.500;39.444  
p52=-70.670;39.500  
p53=-71.000;39.616  
p54=-71.500;39.763  
p55=-72.000;39.870  
p56=-72.500;39.990  
p57=-72.533;40.000  
p58=-73.000;40.204  
p59=-73.416;40.500  
p60=-73.500;40.598  
p61=-73.758;41.000  
p62=-73.893;41.500  
p63=-73.927;42.000  
p64=-73.897;42.500  
p65=-73.826;43.000  
p66=-73.793;43.500  
p67=-73.754;44.000  
p68=-73.723;44.500  
p69=-73.716;45.000  
p70=-73.726;45.500  
p71=-73.739;46.000  
p72=-73.760;46.500  
p73=-73.791;47.000  
p74=-73.746;47.500  
p75=-73.675;48.000  
p76=-73.539;48.500  
p77=-73.500;48.608  
p78=-73.342;49.000  
p79=-73.096;49.500  
p80=-73.000;49.665  
p81=-72.786;50.000  
p82=-72.500;50.389  
p83=-72.413;50.500  
p84=-72.000;50.978  
p85=-71.980;51.000  
p86=-71.500;51.500  
p87=-71.500;51.500  
p88=-71.000;51.973  
p89=-70.968;52.000  
p90=-70.500;52.406  
p91=-70.376;52.500  
p92=-70.000;52.786  
p93=-69.672;53.000  
p94=-69.500;53.105  
p95=-69.000;53.382

p96=-68.692;53.500  
p97=-68.500;53.581  
p98=-68.000;53.641  
p99=-67.500;53.608  
p100=-67.239;53.500  
p101=-67.000;53.442  
p102=-66.500;53.367  
p103=-66.000;53.327  
p104=-65.500;53.346  
p105=-65.000;53.396  
p106=-64.500;53.456  
p107=-64.235;53.500  
p108=-64.000;53.531  
p109=-63.500;53.585  
p110=-63.000;53.600  
p111=-62.500;53.593  
p112=-62.170;53.500  
p113=-62.000;53.345  
p114=-61.862;53.000  
p115=-61.826;52.500  
p116=-61.757;52.000  
p117=-61.500;51.801  
p118=-61.000;51.646  
p119=-60.500;51.620  
p120=-60.000;51.625  
p121=-59.500;51.634  
p122=-59.000;51.621  
p123=-58.500;51.589  
p124=-58.209;51.500  
p125=-58.100;51.000  
p126=-58.274;50.500  
p127=-58.463;50.000  
p128=-58.500;49.837  
p129=-58.605;49.500  
p130=-58.500;49.337  
p131=-58.053;49.000  
p132=-58.000;48.960  
p133=-57.500;48.760  
p134=-57.000;48.673  
p135=-56.500;48.584

[C7]

gain=-20.00  
n\_point=163  
p1=-55.000;48.985  
p2=-54.887;48.500  
p3=-55.000;48.317  
p4=-55.213;48.000  
p5=-55.477;47.500  
p6=-55.500;47.441  
p7=-55.710;47.000  
p8=-55.837;46.500  
p9=-55.867;46.000  
p10=-55.895;45.500  
p11=-56.000;45.027  
p12=-56.006;45.000  
p13=-56.400;44.500

p14=-56.500;44.379  
p15=-56.816;44.000  
p16=-57.000;43.795  
p17=-57.279;43.500  
p18=-57.500;43.216  
p19=-57.685;43.000  
p20=-58.000;42.571  
p21=-58.058;42.500  
p22=-58.443;42.000  
p23=-58.500;41.933  
p24=-58.890;41.500  
p25=-59.000;41.391  
p26=-59.407;41.000  
p27=-59.500;40.926  
p28=-60.000;40.524  
p29=-60.030;40.500  
p30=-60.500;40.131  
p31=-60.676;40.000  
p32=-61.000;39.759  
p33=-61.379;39.500  
p34=-61.500;39.412  
p35=-62.000;39.103  
p36=-62.204;39.000  
p37=-62.500;38.854  
p38=-63.000;38.658  
p39=-63.500;38.524  
p40=-63.605;38.500  
p41=-64.000;38.416  
p42=-64.500;38.340  
p43=-65.000;38.280  
p44=-65.500;38.222  
p45=-66.000;38.161  
p46=-66.500;38.106  
p47=-67.000;38.062  
p48=-67.500;38.059  
p49=-68.000;38.086  
p50=-68.500;38.146  
p51=-69.000;38.227  
p52=-69.500;38.307  
p53=-70.000;38.388  
p54=-70.500;38.475  
p55=-70.635;38.500  
p56=-71.000;38.587  
p57=-71.500;38.673  
p58=-72.000;38.710  
p59=-72.500;38.673  
p60=-73.000;38.608  
p61=-73.500;38.556  
p62=-74.000;38.539  
p63=-74.500;38.627  
p64=-75.000;38.819  
p65=-75.297;39.000  
p66=-75.500;39.185  
p67=-75.743;39.500  
p68=-75.952;40.000  
p69=-75.955;40.500  
p70=-75.808;41.000

p71=-75.591;41.500  
p72=-75.500;41.622  
p73=-75.252;42.000  
p74=-75.000;42.399  
p75=-74.951;42.500  
p76=-74.696;43.000  
p77=-74.565;43.500  
p78=-74.500;43.906  
p79=-74.485;44.000  
p80=-74.494;44.500  
p81=-74.500;44.585  
p82=-74.528;45.000  
p83=-74.650;45.500  
p84=-74.801;46.000  
p85=-74.917;46.500  
p86=-75.000;46.957  
p87=-75.008;47.000  
p88=-75.008;47.500  
p89=-75.000;48.000  
p90=-75.000;48.006  
p91=-74.959;48.500  
p92=-74.877;49.000  
p93=-74.751;49.500  
p94=-74.594;50.000  
p95=-74.500;50.241  
p96=-74.381;50.500  
p97=-74.147;51.000  
p98=-74.000;51.289  
p99=-73.870;51.500  
p100=-73.557;52.000  
p101=-73.500;52.089  
p102=-73.181;52.500  
p103=-73.000;52.699  
p104=-72.632;53.000  
p105=-72.500;53.121  
p106=-72.000;53.452  
p107=-71.920;53.500  
p108=-71.500;53.703  
p109=-71.000;53.949  
p110=-70.903;54.000  
p111=-70.500;54.180  
p112=-70.000;54.394  
p113=-69.783;54.500  
p114=-69.500;54.624  
p115=-69.000;54.870  
p116=-68.745;55.000  
p117=-68.500;55.085  
p118=-68.000;55.200  
p119=-67.500;55.313  
p120=-67.000;55.378  
p121=-66.500;55.289  
p122=-66.108;55.000  
p123=-66.000;54.856  
p124=-65.772;54.500  
p125=-65.500;54.289  
p126=-65.000;54.087  
p127=-64.500;54.036

p128=-64.000;54.042  
p129=-63.500;54.092  
p130=-63.000;54.138  
p131=-62.500;54.157  
p132=-62.000;54.152  
p133=-61.500;54.040  
p134=-61.376;54.000  
p135=-61.098;53.500  
p136=-61.125;53.000  
p137=-61.181;52.500  
p138=-61.000;52.067  
p139=-60.702;52.000  
p140=-60.500;51.986  
p141=-60.000;51.999  
p142=-59.702;52.000  
p143=-59.500;52.001  
p144=-59.000;52.008  
p145=-58.500;52.033  
p146=-58.000;52.061  
p147=-57.500;52.043  
p148=-57.366;52.000  
p149=-57.273;51.500  
p150=-57.470;51.000  
p151=-57.500;50.948  
p152=-57.775;50.500  
p153=-58.000;50.031  
p154=-58.016;50.000  
p155=-58.000;49.945  
p156=-57.500;49.550  
p157=-57.253;49.500  
p158=-57.000;49.429  
p159=-56.500;49.383  
p160=-56.000;49.294  
p161=-55.500;49.158  
p162=-55.013;49.000  
p163=-55.000;48.985

[C8]

gain=-20.00  
n\_point=13  
p1=-54.000;51.992  
p2=-53.666;51.500  
p3=-54.000;51.378  
p4=-54.482;51.000  
p5=-54.500;50.993  
p6=-55.000;50.926  
p7=-55.500;50.891  
p8=-55.569;51.000  
p9=-55.500;51.059  
p10=-55.000;51.389  
p11=-54.942;51.500  
p12=-54.500;51.670  
p13=-54.000;51.992

[C9]

gain=-20.00  
n\_point=7

p1=-57.000;54.174  
p2=-56.748;54.000  
p3=-57.000;53.983  
p4=-57.500;53.939  
p5=-57.793;54.000  
p6=-57.500;54.130  
p7=-57.000;54.174