

[FormatInfo]  
format\_ver=1

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

[COHeader]  
beam\_id=RU1  
emi\_rcp=R  
polar\_disc=C  
reason=C  
n\_bore=1  
n\_cont=8

[B1]  
gain=0.00  
p=-124.266;46.710

[C1]  
gain=-2.00  
n\_point=55  
p1=-128.000;49.207  
p2=-127.500;49.340  
p3=-127.000;49.341  
p4=-126.500;49.264  
p5=-126.000;49.178  
p6=-125.500;49.082  
p7=-125.101;49.000  
p8=-125.000;48.978  
p9=-124.500;48.864  
p10=-124.000;48.715  
p11=-123.505;48.500  
p12=-123.500;48.498  
p13=-123.000;48.225  
p14=-122.646;48.000  
p15=-122.500;47.907  
p16=-122.000;47.500  
p17=-122.000;47.500  
p18=-121.531;47.000  
p19=-121.500;46.967  
p20=-121.112;46.500  
p21=-121.000;46.266  
p22=-120.880;46.000  
p23=-120.706;45.500  
p24=-120.682;45.000  
p25=-120.779;44.500  
p26=-120.977;44.000  
p27=-121.000;43.970  
p28=-121.462;43.500  
p29=-121.500;43.473  
p30=-122.000;43.252  
p31=-122.500;43.152  
p32=-123.000;43.125  
p33=-123.500;43.170

p34=-124.000;43.269  
p35=-124.500;43.422  
p36=-124.687;43.500  
p37=-125.000;43.674  
p38=-125.500;43.994  
p39=-125.509;44.000  
p40=-126.000;44.368  
p41=-126.163;44.500  
p42=-126.500;44.844  
p43=-126.650;45.000  
p44=-127.000;45.425  
p45=-127.066;45.500  
p46=-127.378;46.000  
p47=-127.500;46.311  
p48=-127.567;46.500  
p49=-127.749;47.000  
p50=-127.891;47.500  
p51=-128.000;47.724  
p52=-128.109;48.000  
p53=-128.240;48.500  
p54=-128.200;49.000  
p55=-128.000;49.207

[C2]

gain=-4.00  
n\_point=73  
p1=-129.000;49.854  
p2=-128.519;50.000  
p3=-128.500;50.003  
p4=-128.000;50.001  
p5=-127.948;50.000  
p6=-127.500;49.987  
p7=-127.000;49.963  
p8=-126.500;49.957  
p9=-126.000;49.984  
p10=-125.859;50.000  
p11=-125.500;50.070  
p12=-125.000;50.230  
p13=-124.500;50.305  
p14=-124.000;50.239  
p15=-123.500;50.015  
p16=-123.471;50.000  
p17=-123.000;49.704  
p18=-122.759;49.500  
p19=-122.500;49.309  
p20=-122.159;49.000  
p21=-122.000;48.867  
p22=-121.627;48.500  
p23=-121.500;48.375  
p24=-121.144;48.000  
p25=-121.000;47.843  
p26=-120.705;47.500  
p27=-120.500;47.224  
p28=-120.357;47.000  
p29=-120.029;46.500  
p30=-120.000;46.430  
p31=-119.841;46.000

p32=-119.666;45.500  
p33=-119.606;45.000  
p34=-119.598;44.500  
p35=-119.667;44.000  
p36=-119.877;43.500  
p37=-120.000;43.298  
p38=-120.233;43.000  
p39=-120.500;42.746  
p40=-120.868;42.500  
p41=-121.000;42.444  
p42=-121.500;42.320  
p43=-122.000;42.254  
p44=-122.500;42.223  
p45=-123.000;42.232  
p46=-123.500;42.276  
p47=-124.000;42.350  
p48=-124.500;42.479  
p49=-124.567;42.500  
p50=-125.000;42.646  
p51=-125.500;42.872  
p52=-125.757;43.000  
p53=-126.000;43.140  
p54=-126.500;43.483  
p55=-126.523;43.500  
p56=-127.000;43.902  
p57=-127.113;44.000  
p58=-127.500;44.354  
p59=-127.651;44.500  
p60=-128.000;44.849  
p61=-128.149;45.000  
p62=-128.500;45.355  
p63=-128.646;45.500  
p64=-129.000;45.896  
p65=-129.095;46.000  
p66=-129.400;46.500  
p67=-129.499;47.000  
p68=-129.311;47.500  
p69=-129.286;48.000  
p70=-129.275;48.500  
p71=-129.352;49.000  
p72=-129.351;49.500  
p73=-129.000;49.854

[C3]

gain=-6.00  
n\_point=91  
p1=-130.500;47.902  
p2=-130.445;48.000  
p3=-130.122;48.500  
p4=-130.115;49.000  
p5=-130.123;49.500  
p6=-130.074;50.000  
p7=-130.000;50.118  
p8=-129.500;50.436  
p9=-129.217;50.500  
p10=-129.000;50.519  
p11=-128.500;50.519

p12=-128.000;50.522  
p13=-127.500;50.524  
p14=-127.000;50.552  
p15=-126.500;50.706  
p16=-126.039;51.000  
p17=-126.000;51.059  
p18=-125.500;51.456  
p19=-125.371;51.500  
p20=-125.000;51.572  
p21=-124.707;51.500  
p22=-124.500;51.441  
p23=-124.000;51.275  
p24=-123.500;51.057  
p25=-123.385;51.000  
p26=-123.000;50.730  
p27=-122.672;50.500  
p28=-122.500;50.374  
p29=-122.000;50.006  
p30=-121.993;50.000  
p31=-121.500;49.527  
p32=-121.472;49.500  
p33=-121.000;49.028  
p34=-120.972;49.000  
p35=-120.532;48.500  
p36=-120.500;48.462  
p37=-120.125;48.000  
p38=-120.000;47.829  
p39=-119.784;47.500  
p40=-119.500;47.040  
p41=-119.479;47.000  
p42=-119.237;46.500  
p43=-119.051;46.000  
p44=-119.000;45.837  
p45=-118.905;45.500  
p46=-118.828;45.000  
p47=-118.794;44.500  
p48=-118.808;44.000  
p49=-118.894;43.500  
p50=-119.000;43.158  
p51=-119.064;43.000  
p52=-119.373;42.500  
p53=-119.500;42.364  
p54=-119.952;42.000  
p55=-120.000;41.971  
p56=-120.500;41.767  
p57=-121.000;41.641  
p58=-121.500;41.558  
p59=-122.000;41.502  
p60=-122.035;41.500  
p61=-122.500;41.474  
p62=-123.000;41.465  
p63=-123.500;41.476  
p64=-123.674;41.500  
p65=-124.000;41.546  
p66=-124.500;41.645  
p67=-125.000;41.794  
p68=-125.500;41.971

p69=-125.565;42.000  
p70=-126.000;42.225  
p71=-126.500;42.494  
p72=-126.510;42.500  
p73=-127.000;42.829  
p74=-127.241;43.000  
p75=-127.500;43.225  
p76=-127.800;43.500  
p77=-128.000;43.690  
p78=-128.313;44.000  
p79=-128.500;44.191  
p80=-128.787;44.500  
p81=-129.000;44.710  
p82=-129.287;45.000  
p83=-129.500;45.204  
p84=-129.807;45.500  
p85=-130.000;45.695  
p86=-130.298;46.000  
p87=-130.500;46.238  
p88=-130.733;46.500  
p89=-130.954;47.000  
p90=-130.786;47.500  
p91=-130.500;47.902

[C4]

gain=-8.00  
n\_point=103  
p1=-132.000;47.640  
p2=-131.750;48.000  
p3=-131.500;48.159  
p4=-131.050;48.500  
p5=-131.000;48.578  
p6=-130.815;49.000  
p7=-130.718;49.500  
p8=-130.742;50.000  
p9=-130.605;50.500  
p10=-130.500;50.583  
p11=-130.000;50.752  
p12=-129.500;50.791  
p13=-129.000;50.798  
p14=-128.500;50.798  
p15=-128.000;50.834  
p16=-127.500;50.904  
p17=-127.210;51.000  
p18=-127.000;51.192  
p19=-126.729;51.500  
p20=-126.516;52.000  
p21=-126.500;52.020  
p22=-126.000;52.238  
p23=-125.500;52.279  
p24=-125.000;52.196  
p25=-124.500;52.093  
p26=-124.221;52.000  
p27=-124.000;51.895  
p28=-123.500;51.654  
p29=-123.192;51.500  
p30=-123.000;51.401

p31=-122.500;51.139  
p32=-122.248;51.000  
p33=-122.000;50.813  
p34=-121.584;50.500  
p35=-121.500;50.435  
p36=-121.000;50.061  
p37=-120.923;50.000  
p38=-120.500;49.585  
p39=-120.416;49.500  
p40=-120.000;49.061  
p41=-119.945;49.000  
p42=-119.580;48.500  
p43=-119.500;48.388  
p44=-119.247;48.000  
p45=-119.000;47.541  
p46=-118.981;47.500  
p47=-118.749;47.000  
p48=-118.555;46.500  
p49=-118.500;46.323  
p50=-118.408;46.000  
p51=-118.276;45.500  
p52=-118.214;45.000  
p53=-118.156;44.500  
p54=-118.142;44.000  
p55=-118.183;43.500  
p56=-118.269;43.000  
p57=-118.442;42.500  
p58=-118.500;42.395  
p59=-118.778;42.000  
p60=-119.000;41.767  
p61=-119.344;41.500  
p62=-119.500;41.410  
p63=-120.000;41.198  
p64=-120.500;41.048  
p65=-120.717;41.000  
p66=-121.000;40.939  
p67=-121.500;40.850  
p68=-122.000;40.777  
p69=-122.500;40.725  
p70=-123.000;40.711  
p71=-123.500;40.746  
p72=-124.000;40.810  
p73=-124.500;40.925  
p74=-124.759;41.000  
p75=-125.000;41.071  
p76=-125.500;41.258  
p77=-126.000;41.464  
p78=-126.074;41.500  
p79=-126.500;41.721  
p80=-127.000;41.991  
p81=-127.015;42.000  
p82=-127.500;42.332  
p83=-127.736;42.500  
p84=-128.000;42.706  
p85=-128.360;43.000  
p86=-128.500;43.141  
p87=-128.846;43.500

p88=-129.000;43.661  
p89=-129.311;44.000  
p90=-129.500;44.205  
p91=-129.763;44.500  
p92=-130.000;44.738  
p93=-130.248;45.000  
p94=-130.500;45.242  
p95=-130.754;45.500  
p96=-131.000;45.750  
p97=-131.229;46.000  
p98=-131.500;46.292  
p99=-131.689;46.500  
p100=-131.970;47.000  
p101=-132.000;47.148  
p102=-132.074;47.500  
p103=-132.000;47.640

[C5]

gain=-10.00  
n\_point=111  
p1=-132.500;48.297  
p2=-132.213;48.500  
p3=-132.000;48.638  
p4=-131.593;49.000  
p5=-131.500;49.133  
p6=-131.309;49.500  
p7=-131.259;50.000  
p8=-131.226;50.500  
p9=-131.000;50.884  
p10=-130.831;51.000  
p11=-130.500;51.073  
p12=-130.000;51.085  
p13=-129.500;51.087  
p14=-129.000;51.075  
p15=-128.500;51.098  
p16=-128.000;51.202  
p17=-127.500;51.479  
p18=-127.478;51.500  
p19=-127.161;52.000  
p20=-127.031;52.500  
p21=-127.000;52.536  
p22=-126.500;52.743  
p23=-126.000;52.797  
p24=-125.500;52.736  
p25=-125.000;52.642  
p26=-124.526;52.500  
p27=-124.500;52.492  
p28=-124.000;52.321  
p29=-123.500;52.161  
p30=-123.036;52.000  
p31=-123.000;51.983  
p32=-122.500;51.732  
p33=-122.033;51.500  
p34=-122.000;51.483  
p35=-121.500;51.242  
p36=-121.075;51.000  
p37=-121.000;50.947

p38=-120.500;50.585  
p39=-120.390;50.500  
p40=-120.000;50.183  
p41=-119.795;50.000  
p42=-119.500;49.680  
p43=-119.351;49.500  
p44=-119.000;49.068  
p45=-118.952;49.000  
p46=-118.669;48.500  
p47=-118.500;48.181  
p48=-118.416;48.000  
p49=-118.240;47.500  
p50=-118.078;47.000  
p51=-118.000;46.712  
p52=-117.949;46.500  
p53=-117.837;46.000  
p54=-117.748;45.500  
p55=-117.683;45.000  
p56=-117.634;44.500  
p57=-117.615;44.000  
p58=-117.604;43.500  
p59=-117.632;43.000  
p60=-117.735;42.500  
p61=-117.937;42.000  
p62=-118.000;41.894  
p63=-118.288;41.500  
p64=-118.500;41.302  
p65=-118.914;41.000  
p66=-119.000;40.955  
p67=-119.500;40.741  
p68=-120.000;40.573  
p69=-120.252;40.500  
p70=-120.500;40.426  
p71=-121.000;40.288  
p72=-121.500;40.170  
p73=-122.000;40.090  
p74=-122.500;40.068  
p75=-123.000;40.075  
p76=-123.500;40.109  
p77=-124.000;40.181  
p78=-124.500;40.279  
p79=-125.000;40.422  
p80=-125.224;40.500  
p81=-125.500;40.600  
p82=-126.000;40.815  
p83=-126.398;41.000  
p84=-126.500;41.049  
p85=-127.000;41.317  
p86=-127.334;41.500  
p87=-127.500;41.600  
p88=-128.000;41.933  
p89=-128.094;42.000  
p90=-128.500;42.315  
p91=-128.735;42.500  
p92=-129.000;42.735  
p93=-129.288;43.000  
p94=-129.500;43.223



p95=-129.759;43.500  
p96=-130.000;43.762  
p97=-130.219;44.000  
p98=-130.500;44.316  
p99=-130.660;44.500  
p100=-131.000;44.869  
p101=-131.112;45.000  
p102=-131.500;45.412  
p103=-131.572;45.500  
p104=-131.991;46.000  
p105=-132.000;46.010  
p106=-132.395;46.500  
p107=-132.500;46.687  
p108=-132.660;47.000  
p109=-132.903;47.500  
p110=-132.824;48.000  
p111=-132.500;48.297

[C6]

gain=-15.00  
n\_point=133  
p1=-134.000;48.832  
p2=-133.796;49.000  
p3=-133.500;49.379  
p4=-133.399;49.500  
p5=-133.000;49.919  
p6=-132.917;50.000  
p7=-132.500;50.421  
p8=-132.446;50.500  
p9=-132.284;51.000  
p10=-132.094;51.500  
p11=-132.000;51.547  
p12=-131.500;51.625  
p13=-131.000;51.668  
p14=-130.500;51.673  
p15=-130.000;51.661  
p16=-129.500;51.659  
p17=-129.000;51.713  
p18=-128.500;51.858  
p19=-128.278;52.000  
p20=-128.196;52.500  
p21=-128.063;53.000  
p22=-128.000;53.310  
p23=-127.906;53.500  
p24=-127.500;53.599  
p25=-127.000;53.649  
p26=-126.500;53.622  
p27=-126.000;53.570  
p28=-125.531;53.500  
p29=-125.500;53.494  
p30=-125.000;53.395  
p31=-124.500;53.323  
p32=-124.000;53.276  
p33=-123.500;53.251  
p34=-123.000;53.297  
p35=-122.500;53.374  
p36=-122.000;53.449

p37=-121.500;53.394  
p38=-121.000;53.209  
p39=-120.548;53.000  
p40=-120.500;52.975  
p41=-120.000;52.594  
p42=-119.888;52.500  
p43=-119.500;52.149  
p44=-119.344;52.000  
p45=-119.000;51.660  
p46=-118.844;51.500  
p47=-118.500;51.128  
p48=-118.384;51.000  
p49=-118.000;50.537  
p50=-117.970;50.500  
p51=-117.594;50.000  
p52=-117.500;49.854  
p53=-117.281;49.500  
p54=-117.022;49.000  
p55=-117.000;48.946  
p56=-116.837;48.500  
p57=-116.687;48.000  
p58=-116.622;47.500  
p59=-116.577;47.000  
p60=-116.602;46.500  
p61=-116.623;46.000  
p62=-116.640;45.500  
p63=-116.654;45.000  
p64=-116.620;44.500  
p65=-116.593;44.000  
p66=-116.539;43.500  
p67=-116.500;43.200  
p68=-116.475;43.000  
p69=-116.394;42.500  
p70=-116.340;42.000  
p71=-116.335;41.500  
p72=-116.424;41.000  
p73=-116.500;40.830  
p74=-116.696;40.500  
p75=-117.000;40.224  
p76=-117.394;40.000  
p77=-117.500;39.960  
p78=-118.000;39.829  
p79=-118.500;39.725  
p80=-119.000;39.608  
p81=-119.318;39.500  
p82=-119.500;39.443  
p83=-120.000;39.261  
p84=-120.500;39.105  
p85=-120.939;39.000  
p86=-121.000;38.989  
p87=-121.500;38.926  
p88=-122.000;38.891  
p89=-122.500;38.873  
p90=-123.000;38.874  
p91=-123.500;38.901  
p92=-124.000;38.948  
p93=-124.435;39.000

p94=-124.500;39.010  
p95=-125.000;39.120  
p96=-125.500;39.240  
p97=-126.000;39.388  
p98=-126.325;39.500  
p99=-126.500;39.568  
p100=-127.000;39.790  
p101=-127.419;40.000  
p102=-127.500;40.046  
p103=-128.000;40.347  
p104=-128.243;40.500  
p105=-128.500;40.666  
p106=-128.980;41.000  
p107=-129.000;41.014  
p108=-129.500;41.402  
p109=-129.616;41.500  
p110=-130.000;41.838  
p111=-130.171;42.000  
p112=-130.500;42.310  
p113=-130.688;42.500  
p114=-131.000;42.805  
p115=-131.192;43.000  
p116=-131.500;43.299  
p117=-131.702;43.500  
p118=-132.000;43.784  
p119=-132.229;44.000  
p120=-132.500;44.307  
p121=-132.670;44.500  
p122=-133.000;44.918  
p123=-133.067;45.000  
p124=-133.233;45.500  
p125=-133.405;46.000  
p126=-133.500;46.186  
p127=-133.622;46.500  
p128=-133.820;47.000  
p129=-134.000;47.314  
p130=-134.088;47.500  
p131=-134.234;48.000  
p132=-134.311;48.500  
p133=-134.000;48.832

[C7]

gain=-20.00  
n\_point=167  
p1=-136.000;51.648  
p2=-135.500;51.627  
p3=-135.071;51.500  
p4=-135.000;51.466  
p5=-134.500;51.283  
p6=-134.000;51.232  
p7=-133.500;51.237  
p8=-133.020;51.500  
p9=-133.038;52.000  
p10=-133.000;52.025  
p11=-132.500;52.082  
p12=-132.000;52.065  
p13=-131.500;52.061

p14=-131.000;52.095  
p15=-130.500;52.116  
p16=-130.000;52.107  
p17=-129.500;52.159  
p18=-129.000;52.390  
p19=-128.901;52.500  
p20=-129.000;52.875  
p21=-129.039;53.000  
p22=-129.000;53.375  
p23=-128.984;53.500  
p24=-128.662;54.000  
p25=-128.500;54.098  
p26=-128.000;54.209  
p27=-127.500;54.246  
p28=-127.000;54.214  
p29=-126.500;54.161  
p30=-126.000;54.105  
p31=-125.500;54.059  
p32=-125.000;54.073  
p33=-124.500;54.213  
p34=-124.060;54.500  
p35=-124.000;54.676  
p36=-123.807;55.000  
p37=-123.500;55.199  
p38=-123.000;55.309  
p39=-122.500;55.258  
p40=-122.000;55.176  
p41=-121.500;55.027  
p42=-121.419;55.000  
p43=-121.000;54.794  
p44=-120.500;54.565  
p45=-120.353;54.500  
p46=-120.000;54.338  
p47=-119.500;54.089  
p48=-119.299;54.000  
p49=-119.000;53.830  
p50=-118.500;53.594  
p51=-118.306;53.500  
p52=-118.000;53.312  
p53=-117.610;53.000  
p54=-117.500;52.915  
p55=-117.084;52.500  
p56=-117.000;52.410  
p57=-116.702;52.000  
p58=-116.500;51.715  
p59=-116.364;51.500  
p60=-116.089;51.000  
p61=-116.000;50.841  
p62=-115.830;50.500  
p63=-115.628;50.000  
p64=-115.500;49.672  
p65=-115.440;49.500  
p66=-115.324;49.000  
p67=-115.266;48.500  
p68=-115.240;48.000  
p69=-115.282;47.500  
p70=-115.315;47.000

p71=-115.428;46.500  
p72=-115.500;46.216  
p73=-115.553;46.000  
p74=-115.708;45.500  
p75=-115.837;45.000  
p76=-115.892;44.500  
p77=-115.866;44.000  
p78=-115.753;43.500  
p79=-115.593;43.000  
p80=-115.500;42.811  
p81=-115.310;42.500  
p82=-115.000;42.021  
p83=-114.982;42.000  
p84=-114.638;41.500  
p85=-114.500;41.207  
p86=-114.410;41.000  
p87=-114.290;40.500  
p88=-114.251;40.000  
p89=-114.398;39.500  
p90=-114.500;39.332  
p91=-114.785;39.000  
p92=-115.000;38.838  
p93=-115.500;38.579  
p94=-115.771;38.500  
p95=-116.000;38.456  
p96=-116.500;38.421  
p97=-117.000;38.438  
p98=-117.483;38.500  
p99=-117.500;38.502  
p100=-118.000;38.556  
p101=-118.500;38.577  
p102=-119.000;38.519  
p103=-119.098;38.500  
p104=-119.500;38.440  
p105=-120.000;38.368  
p106=-120.500;38.295  
p107=-121.000;38.208  
p108=-121.500;38.121  
p109=-122.000;38.054  
p110=-122.500;38.023  
p111=-123.000;38.053  
p112=-123.500;38.092  
p113=-124.000;38.140  
p114=-124.500;38.170  
p115=-125.000;38.195  
p116=-125.500;38.216  
p117=-126.000;38.257  
p118=-126.500;38.320  
p119=-127.000;38.428  
p120=-127.255;38.500  
p121=-127.500;38.572  
p122=-128.000;38.762  
p123=-128.455;39.000  
p124=-128.500;39.023  
p125=-129.000;39.343  
p126=-129.199;39.500  
p127=-129.500;39.704

p128=-129.889;40.000  
p129=-130.000;40.081  
p130=-130.500;40.472  
p131=-130.534;40.500  
p132=-131.000;40.863  
p133=-131.173;41.000  
p134=-131.500;41.314  
p135=-131.684;41.500  
p136=-132.000;41.842  
p137=-132.139;42.000  
p138=-132.500;42.480  
p139=-132.514;42.500  
p140=-132.885;43.000  
p141=-133.000;43.131  
p142=-133.291;43.500  
p143=-133.500;43.704  
p144=-133.788;44.000  
p145=-134.000;44.235  
p146=-134.234;44.500  
p147=-134.500;44.826  
p148=-134.638;45.000  
p149=-134.717;45.500  
p150=-134.672;46.000  
p151=-134.550;46.500  
p152=-134.560;47.000  
p153=-134.740;47.500  
p154=-135.000;47.965  
p155=-135.016;48.000  
p156=-135.242;48.500  
p157=-135.212;49.000  
p158=-135.000;49.191  
p159=-134.700;49.500  
p160=-134.595;50.000  
p161=-134.989;50.500  
p162=-135.000;50.511  
p163=-135.500;50.891  
p164=-135.694;51.000  
p165=-136.000;51.351  
p166=-136.205;51.500  
p167=-136.000;51.648

[C8]

gain=-20.00  
n\_point=9  
p1=-133.000;54.042  
p2=-132.500;54.064  
p3=-132.000;54.000  
p4=-132.000;54.000  
p5=-132.000;54.000  
p6=-132.500;53.965  
p7=-133.000;53.989  
p8=-133.046;54.000  
p9=-133.000;54.042