

[FormatInfo]  
format\_ver=1

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

[COHeader]  
beam\_id=RD12  
emi\_rcp=E  
polar\_disc=C  
reason=C  
n\_bore=1  
n\_cont=7

[B1]  
gain=0.00  
p=-110.194;39.721

[C1]  
gain=-2.00  
n\_point=47  
p1=-113.000;41.756  
p2=-112.871;42.000  
p3=-112.500;42.253  
p4=-112.079;42.500  
p5=-112.000;42.541  
p6=-111.500;42.601  
p7=-111.000;42.647  
p8=-110.500;42.514  
p9=-110.452;42.500  
p10=-110.000;42.372  
p11=-109.500;42.106  
p12=-109.330;42.000  
p13=-109.000;41.725  
p14=-108.763;41.500  
p15=-108.500;41.248  
p16=-108.320;41.000  
p17=-108.037;40.500  
p18=-108.000;40.412  
p19=-107.844;40.000  
p20=-107.706;39.500  
p21=-107.690;39.000  
p22=-107.717;38.500  
p23=-107.916;38.000  
p24=-108.000;37.832  
p25=-108.238;37.500  
p26=-108.500;37.284  
p27=-109.000;37.066  
p28=-109.213;37.000  
p29=-109.500;36.923  
p30=-110.000;36.967  
p31=-110.291;37.000  
p32=-110.500;37.026  
p33=-111.000;37.262

p34=-111.498;37.500  
p35=-111.500;37.501  
p36=-112.000;37.943  
p37=-112.061;38.000  
p38=-112.499;38.500  
p39=-112.500;38.502  
p40=-112.839;39.000  
p41=-113.000;39.347  
p42=-113.054;39.500  
p43=-113.203;40.000  
p44=-113.261;40.500  
p45=-113.262;41.000  
p46=-113.084;41.500  
p47=-113.000;41.756

[C2]

gain=-4.00  
n\_point=65  
p1=-114.500;41.392  
p2=-114.484;41.500  
p3=-114.422;42.000  
p4=-114.200;42.500  
p5=-114.000;42.846  
p6=-113.884;43.000  
p7=-113.500;43.371  
p8=-113.273;43.500  
p9=-113.000;43.620  
p10=-112.500;43.823  
p11=-112.000;43.877  
p12=-111.500;43.917  
p13=-111.000;43.837  
p14=-110.500;43.732  
p15=-110.000;43.562  
p16=-109.867;43.500  
p17=-109.500;43.329  
p18=-109.000;43.093  
p19=-108.866;43.000  
p20=-108.500;42.660  
p21=-108.326;42.500  
p22=-108.000;42.196  
p23=-107.824;42.000  
p24=-107.500;41.595  
p25=-107.438;41.500  
p26=-107.160;41.000  
p27=-107.000;40.655  
p28=-106.929;40.500  
p29=-106.775;40.000  
p30=-106.651;39.500  
p31=-106.621;39.000  
p32=-106.609;38.500  
p33=-106.716;38.000  
p34=-106.844;37.500  
p35=-107.000;37.223  
p36=-107.155;37.000  
p37=-107.500;36.513  
p38=-107.514;36.500  
p39=-108.000;36.227

p40=-108.474;36.000  
p41=-108.500;35.989  
p42=-109.000;35.888  
p43=-109.500;35.847  
p44=-110.000;35.884  
p45=-110.500;35.981  
p46=-110.564;36.000  
p47=-111.000;36.147  
p48=-111.500;36.365  
p49=-111.743;36.500  
p50=-112.000;36.673  
p51=-112.468;37.000  
p52=-112.500;37.025  
p53=-112.972;37.500  
p54=-113.000;37.531  
p55=-113.396;38.000  
p56=-113.500;38.150  
p57=-113.725;38.500  
p58=-114.000;38.940  
p59=-114.031;39.000  
p60=-114.204;39.500  
p61=-114.387;40.000  
p62=-114.493;40.500  
p63=-114.500;40.555  
p64=-114.548;41.000  
p65=-114.500;41.392

[C3]

gain=-6.00  
n\_point=77  
p1=-115.000;43.332  
p2=-114.903;43.500  
p3=-114.500;43.978  
p4=-114.473;44.000  
p5=-114.000;44.365  
p6=-113.748;44.500  
p7=-113.500;44.593  
p8=-113.000;44.740  
p9=-112.500;44.810  
p10=-112.000;44.836  
p11=-111.500;44.814  
p12=-111.000;44.730  
p13=-110.500;44.636  
p14=-110.125;44.500  
p15=-110.000;44.450  
p16=-109.500;44.253  
p17=-109.009;44.000  
p18=-109.000;43.995  
p19=-108.500;43.643  
p20=-108.308;43.500  
p21=-108.000;43.282  
p22=-107.699;43.000  
p23=-107.500;42.768  
p24=-107.276;42.500  
p25=-107.000;42.157  
p26=-106.890;42.000  
p27=-106.573;41.500

p28=-106.500;41.375  
p29=-106.335;41.000  
p30=-106.151;40.500  
p31=-106.011;40.000  
p32=-106.000;39.959  
p33=-105.897;39.500  
p34=-105.858;39.000  
p35=-105.827;38.500  
p36=-105.897;38.000  
p37=-105.975;37.500  
p38=-106.000;37.433  
p39=-106.199;37.000  
p40=-106.423;36.500  
p41=-106.500;36.392  
p42=-106.893;36.000  
p43=-107.000;35.903  
p44=-107.496;35.500  
p45=-107.500;35.498  
p46=-108.000;35.299  
p47=-108.500;35.163  
p48=-109.000;35.078  
p49=-109.500;35.077  
p50=-110.000;35.102  
p51=-110.500;35.213  
p52=-111.000;35.338  
p53=-111.409;35.500  
p54=-111.500;35.542  
p55=-112.000;35.789  
p56=-112.335;36.000  
p57=-112.500;36.111  
p58=-113.000;36.487  
p59=-113.015;36.500  
p60=-113.500;36.946  
p61=-113.551;37.000  
p62=-113.960;37.500  
p63=-114.000;37.554  
p64=-114.323;38.000  
p65=-114.500;38.297  
p66=-114.614;38.500  
p67=-114.888;39.000  
p68=-115.000;39.291  
p69=-115.070;39.500  
p70=-115.248;40.000  
p71=-115.352;40.500  
p72=-115.449;41.000  
p73=-115.440;41.500  
p74=-115.436;42.000  
p75=-115.333;42.500  
p76=-115.180;43.000  
p77=-115.000;43.332

[C4]

gain=-8.00  
n\_point=91  
p1=-116.000;43.309  
p2=-115.940;43.500  
p3=-115.677;44.000

p4=-115.500;44.272  
p5=-115.338;44.500  
p6=-115.000;44.799  
p7=-114.661;45.000  
p8=-114.500;45.097  
p9=-114.000;45.361  
p10=-113.549;45.500  
p11=-113.500;45.511  
p12=-113.000;45.604  
p13=-112.500;45.622  
p14=-112.000;45.633  
p15=-111.500;45.571  
p16=-111.000;45.503  
p17=-110.987;45.500  
p18=-110.500;45.358  
p19=-110.000;45.181  
p20=-109.508;45.000  
p21=-109.500;44.997  
p22=-109.000;44.722  
p23=-108.595;44.500  
p24=-108.500;44.445  
p25=-108.000;44.099  
p26=-107.872;44.000  
p27=-107.500;43.650  
p28=-107.343;43.500  
p29=-107.000;43.178  
p30=-106.854;43.000  
p31=-106.502;42.500  
p32=-106.500;42.497  
p33=-106.187;42.000  
p34=-106.000;41.647  
p35=-105.927;41.500  
p36=-105.704;41.000  
p37=-105.515;40.500  
p38=-105.500;40.441  
p39=-105.413;40.000  
p40=-105.318;39.500  
p41=-105.279;39.000  
p42=-105.241;38.500  
p43=-105.292;38.000  
p44=-105.352;37.500  
p45=-105.500;37.007  
p46=-105.502;37.000  
p47=-105.683;36.500  
p48=-106.000;36.010  
p49=-106.007;36.000  
p50=-106.385;35.500  
p51=-106.500;35.397  
p52=-107.000;35.064  
p53=-107.115;35.000  
p54=-107.500;34.805  
p55=-108.000;34.610  
p56=-108.500;34.505  
p57=-108.532;34.500  
p58=-109.000;34.441  
p59=-109.500;34.455  
p60=-110.000;34.482

p61=-110.102;34.500  
p62=-110.500;34.584  
p63=-111.000;34.705  
p64=-111.500;34.885  
p65=-111.796;35.000  
p66=-112.000;35.087  
p67=-112.500;35.370  
p68=-112.723;35.500  
p69=-113.000;35.684  
p70=-113.391;36.000  
p71=-113.500;36.094  
p72=-113.932;36.500  
p73=-114.000;36.572  
p74=-114.387;37.000  
p75=-114.500;37.138  
p76=-114.754;37.500  
p77=-115.000;37.874  
p78=-115.080;38.000  
p79=-115.343;38.500  
p80=-115.500;38.821  
p81=-115.587;39.000  
p82=-115.771;39.500  
p83=-115.950;40.000  
p84=-116.000;40.234  
p85=-116.056;40.500  
p86=-116.169;41.000  
p87=-116.209;41.500  
p88=-116.227;42.000  
p89=-116.180;42.500  
p90=-116.088;43.000  
p91=-116.000;43.309

[C5]

gain=-10.00  
n\_point=99  
p1=-116.500;44.151  
p2=-116.359;44.500  
p3=-116.000;44.948  
p4=-115.946;45.000  
p5=-115.500;45.453  
p6=-115.440;45.500  
p7=-115.000;45.731  
p8=-114.500;45.958  
p9=-114.347;46.000  
p10=-114.000;46.084  
p11=-113.500;46.192  
p12=-113.000;46.235  
p13=-112.500;46.251  
p14=-112.000;46.230  
p15=-111.500;46.161  
p16=-111.000;46.087  
p17=-110.695;46.000  
p18=-110.500;45.945  
p19=-110.000;45.801  
p20=-109.500;45.619  
p21=-109.224;45.500  
p22=-109.000;45.384

p23=-108.500;45.123  
p24=-108.317;45.000  
p25=-108.000;44.773  
p26=-107.631;44.500  
p27=-107.500;44.398  
p28=-107.030;44.000  
p29=-107.000;43.971  
p30=-106.606;43.500  
p31=-106.500;43.372  
p32=-106.196;43.000  
p33=-106.000;42.704  
p34=-105.886;42.500  
p35=-105.604;42.000  
p36=-105.500;41.803  
p37=-105.372;41.500  
p38=-105.197;41.000  
p39=-105.043;40.500  
p40=-105.000;40.315  
p41=-104.933;40.000  
p42=-104.837;39.500  
p43=-104.799;39.000  
p44=-104.762;38.500  
p45=-104.794;38.000  
p46=-104.837;37.500  
p47=-104.954;37.000  
p48=-105.000;36.816  
p49=-105.098;36.500  
p50=-105.346;36.000  
p51=-105.500;35.689  
p52=-105.628;35.500  
p53=-106.000;35.135  
p54=-106.150;35.000  
p55=-106.500;34.711  
p56=-106.826;34.500  
p57=-107.000;34.415  
p58=-107.500;34.235  
p59=-108.000;34.077  
p60=-108.500;34.003  
p61=-108.521;34.000  
p62=-109.000;33.952  
p63=-109.500;33.957  
p64=-110.000;33.985  
p65=-110.111;34.000  
p66=-110.500;34.061  
p67=-111.000;34.168  
p68=-111.500;34.313  
p69=-112.000;34.490  
p70=-112.023;34.500  
p71=-112.500;34.730  
p72=-112.994;35.000  
p73=-113.000;35.004  
p74=-113.500;35.356  
p75=-113.689;35.500  
p76=-114.000;35.759  
p77=-114.250;36.000  
p78=-114.500;36.261  
p79=-114.711;36.500

p80=-115.000;36.862  
p81=-115.105;37.000  
p82=-115.447;37.500  
p83=-115.500;37.584  
p84=-115.735;38.000  
p85=-115.994;38.500  
p86=-116.000;38.512  
p87=-116.211;39.000  
p88=-116.383;39.500  
p89=-116.500;39.784  
p90=-116.576;40.000  
p91=-116.671;40.500  
p92=-116.786;41.000  
p93=-116.848;41.500  
p94=-116.879;42.000  
p95=-116.865;42.500  
p96=-116.822;43.000  
p97=-116.738;43.500  
p98=-116.558;44.000  
p99=-116.500;44.151

[C6]

gain=-15.00  
n\_point=117  
p1=-118.000;44.831  
p2=-117.948;45.000  
p3=-117.744;45.500  
p4=-117.500;45.905  
p5=-117.432;46.000  
p6=-117.000;46.458  
p7=-116.947;46.500  
p8=-116.500;46.805  
p9=-116.190;47.000  
p10=-116.000;47.081  
p11=-115.500;47.222  
p12=-115.000;47.347  
p13=-114.500;47.416  
p14=-114.000;47.478  
p15=-113.500;47.496  
p16=-113.000;47.498  
p17=-112.500;47.480  
p18=-112.000;47.426  
p19=-111.500;47.372  
p20=-111.000;47.275  
p21=-110.500;47.171  
p22=-110.000;47.050  
p23=-109.831;47.000  
p24=-109.500;46.895  
p25=-109.000;46.726  
p26=-108.500;46.514  
p27=-108.472;46.500  
p28=-108.000;46.249  
p29=-107.567;46.000  
p30=-107.500;45.961  
p31=-107.000;45.619  
p32=-106.854;45.500  
p33=-106.500;45.187



p34=-106.301;45.000  
p35=-106.000;44.691  
p36=-105.839;44.500  
p37=-105.500;44.042  
p38=-105.473;44.000  
p39=-105.168;43.500  
p40=-105.000;43.205  
p41=-104.893;43.000  
p42=-104.679;42.500  
p43=-104.500;42.051  
p44=-104.483;42.000  
p45=-104.335;41.500  
p46=-104.216;41.000  
p47=-104.115;40.500  
p48=-104.034;40.000  
p49=-104.000;39.803  
p50=-103.957;39.500  
p51=-103.917;39.000  
p52=-103.878;38.500  
p53=-103.872;38.000  
p54=-103.883;37.500  
p55=-103.939;37.000  
p56=-104.000;36.601  
p57=-104.020;36.500  
p58=-104.161;36.000  
p59=-104.328;35.500  
p60=-104.500;35.148  
p61=-104.593;35.000  
p62=-104.957;34.500  
p63=-105.000;34.453  
p64=-105.500;34.023  
p65=-105.533;34.000  
p66=-106.000;33.707  
p67=-106.433;33.500  
p68=-106.500;33.476  
p69=-107.000;33.320  
p70=-107.500;33.208  
p71=-108.000;33.109  
p72=-108.500;33.041  
p73=-108.961;33.000  
p74=-109.000;32.997  
p75=-109.500;32.976  
p76=-110.000;32.978  
p77=-110.500;32.989  
p78=-110.649;33.000  
p79=-111.000;33.028  
p80=-111.500;33.076  
p81=-112.000;33.150  
p82=-112.500;33.246  
p83=-113.000;33.383  
p84=-113.325;33.500  
p85=-113.500;33.568  
p86=-114.000;33.806  
p87=-114.313;34.000  
p88=-114.500;34.119  
p89=-114.978;34.500  
p90=-115.000;34.519

p91=-115.477;35.000  
p92=-115.500;35.025  
p93=-115.875;35.500  
p94=-116.000;35.676  
p95=-116.215;36.000  
p96=-116.499;36.500  
p97=-116.500;36.503  
p98=-116.755;37.000  
p99=-116.968;37.500  
p100=-117.000;37.572  
p101=-117.172;38.000  
p102=-117.338;38.500  
p103=-117.500;38.972  
p104=-117.509;39.000  
p105=-117.642;39.500  
p106=-117.784;40.000  
p107=-117.884;40.500  
p108=-118.000;40.911  
p109=-118.021;41.000  
p110=-118.082;41.500  
p111=-118.138;42.000  
p112=-118.186;42.500  
p113=-118.196;43.000  
p114=-118.214;43.500  
p115=-118.165;44.000  
p116=-118.094;44.500  
p117=-118.000;44.831

[C7]

gain=-20.00  
n\_point=155  
p1=-119.000;47.056  
p2=-118.742;47.500  
p3=-118.500;47.696  
p4=-118.000;47.951  
p5=-117.866;48.000  
p6=-117.500;48.121  
p7=-117.000;48.258  
p8=-116.500;48.348  
p9=-116.000;48.404  
p10=-115.500;48.436  
p11=-115.000;48.431  
p12=-114.500;48.420  
p13=-114.000;48.400  
p14=-113.500;48.372  
p15=-113.000;48.348  
p16=-112.500;48.325  
p17=-112.000;48.301  
p18=-111.500;48.278  
p19=-111.000;48.245  
p20=-110.500;48.208  
p21=-110.000;48.160  
p22=-109.500;48.094  
p23=-109.000;48.041  
p24=-108.582;48.000  
p25=-108.500;47.994  
p26=-108.000;47.988

p27=-107.903;48.000  
p28=-107.500;48.144  
p29=-107.000;48.418  
p30=-106.781;48.500  
p31=-106.500;48.600  
p32=-106.000;48.704  
p33=-105.542;48.500  
p34=-105.500;48.483  
p35=-105.000;48.308  
p36=-104.500;48.023  
p37=-104.467;48.000  
p38=-104.000;47.616  
p39=-103.831;47.500  
p40=-103.500;47.208  
p41=-103.362;47.000  
p42=-103.000;46.584  
p43=-102.923;46.500  
p44=-102.650;46.000  
p45=-102.500;45.729  
p46=-102.374;45.500  
p47=-102.065;45.000  
p48=-102.000;44.744  
p49=-101.969;44.500  
p50=-101.923;44.000  
p51=-102.000;43.849  
p52=-102.500;43.776  
p53=-103.000;43.656  
p54=-103.166;43.500  
p55=-103.420;43.000  
p56=-103.500;42.669  
p57=-103.515;42.500  
p58=-103.520;42.000  
p59=-103.501;41.500  
p60=-103.500;41.490  
p61=-103.454;41.000  
p62=-103.414;40.500  
p63=-103.403;40.000  
p64=-103.386;39.500  
p65=-103.352;39.000  
p66=-103.312;38.500  
p67=-103.258;38.000  
p68=-103.228;37.500  
p69=-103.205;37.000  
p70=-103.190;36.500  
p71=-103.149;36.000  
p72=-103.119;35.500  
p73=-103.043;35.000  
p74=-103.000;34.743  
p75=-102.837;34.500  
p76=-102.500;34.135  
p77=-102.000;34.001  
p78=-102.000;34.000  
p79=-101.870;33.500  
p80=-102.000;33.317  
p81=-102.239;33.000  
p82=-102.500;32.528  
p83=-102.596;32.500

p84=-103.000;32.439  
p85=-103.475;32.500  
p86=-103.500;32.507  
p87=-104.000;32.858  
p88=-104.500;32.882  
p89=-105.000;32.850  
p90=-105.500;32.765  
p91=-106.000;32.703  
p92=-106.500;32.629  
p93=-107.000;32.575  
p94=-107.500;32.522  
p95=-107.681;32.500  
p96=-108.000;32.472  
p97=-108.500;32.408  
p98=-109.000;32.334  
p99=-109.500;32.235  
p100=-110.000;32.131  
p101=-110.471;32.000  
p102=-110.500;31.983  
p103=-111.000;31.683  
p104=-111.315;31.500  
p105=-111.500;31.356  
p106=-112.000;31.038  
p107=-112.220;31.000  
p108=-112.500;30.967  
p109=-113.000;30.979  
p110=-113.104;31.000  
p111=-113.500;31.106  
p112=-114.000;31.294  
p113=-114.438;31.500  
p114=-114.500;31.530  
p115=-115.000;31.794  
p116=-115.336;32.000  
p117=-115.500;32.132  
p118=-116.000;32.500  
p119=-116.000;32.500  
p120=-116.500;32.962  
p121=-116.544;33.000  
p122=-116.992;33.500  
p123=-117.000;33.509  
p124=-117.435;34.000  
p125=-117.500;34.090  
p126=-117.735;34.500  
p127=-118.000;34.916  
p128=-118.054;35.000  
p129=-118.263;35.500  
p130=-118.470;36.000  
p131=-118.500;36.147  
p132=-118.569;36.500  
p133=-118.666;37.000  
p134=-118.662;37.500  
p135=-118.696;38.000  
p136=-118.671;38.500  
p137=-118.713;39.000  
p138=-118.726;39.500  
p139=-118.787;40.000  
p140=-118.830;40.500

p141=-118.925;41.000  
p142=-118.978;41.500  
p143=-119.000;41.683  
p144=-119.036;42.000  
p145=-119.111;42.500  
p146=-119.185;43.000  
p147=-119.256;43.500  
p148=-119.328;44.000  
p149=-119.359;44.500  
p150=-119.398;45.000  
p151=-119.401;45.500  
p152=-119.348;46.000  
p153=-119.278;46.500  
p154=-119.024;47.000  
p155=-119.000;47.056