

[FormatInfo]  
format\_ver=1

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

[COHeader]  
beam\_id=RU16  
emi\_rcp=R  
polar\_disc=C  
reason=C  
n\_bore=1  
n\_cont=9

[B1]  
gain=0.00  
p=-89.879;28.686

[C1]  
gain=-2  
n\_point=39  
p1=-88.973;32.085  
p2=-88.345;31.854  
p3=-87.711;31.446  
p4=-87.671;31.409  
p5=-87.115;30.731  
p6=-87.113;30.727  
p7=-86.834;30.057  
p8=-86.702;29.388  
p9=-86.708;28.723  
p10=-86.845;28.064  
p11=-87.113;27.409  
p12=-87.450;26.864  
p13=-87.530;26.758  
p14=-88.134;26.162  
p15=-88.205;26.110  
p16=-88.786;25.770  
p17=-89.423;25.543  
p18=-90.050;25.461  
p19=-90.668;25.521  
p20=-91.281;25.728  
p21=-91.874;26.081  
p22=-91.890;26.093  
p23=-92.470;26.717  
p24=-92.496;26.756  
p25=-92.807;27.360  
p26=-93.001;28.010  
p27=-93.063;28.666  
p28=-92.992;29.330  
p29=-92.781;30.000  
p30=-92.420;30.679  
p31=-92.382;30.730  
p32=-91.785;31.367  
p33=-91.698;31.440

p34=-91.016;31.851  
p35=-90.399;32.071  
p36=-90.335;32.090  
p37=-89.661;32.160  
p38=-88.996;32.092  
p39=-88.973;32.085

[C2]

gain=-4  
n\_point=55  
p1=-88.861;33.498  
p2=-88.215;33.338  
p3=-87.559;33.055  
p4=-87.172;32.811  
p5=-86.921;32.627  
p6=-86.407;32.122  
p7=-86.311;32.003  
p8=-85.943;31.436  
p9=-85.749;31.018  
p10=-85.646;30.755  
p11=-85.483;30.079  
p12=-85.423;29.408  
p13=-85.456;28.743  
p14=-85.579;28.083  
p15=-85.792;27.427  
p16=-86.098;26.777  
p17=-86.200;26.609  
p18=-86.527;26.131  
p19=-86.912;25.684  
p20=-87.111;25.488  
p21=-87.582;25.101  
p22=-87.974;24.849  
p23=-88.231;24.703  
p24=-88.865;24.443  
p25=-89.490;24.288  
p26=-90.107;24.231  
p27=-90.719;24.271  
p28=-91.327;24.410  
p29=-91.934;24.654  
p30=-92.215;24.817  
p31=-92.539;25.033  
p32=-93.003;25.443  
p33=-93.144;25.594  
p34=-93.512;26.075  
p35=-93.752;26.487  
p36=-93.867;26.713  
p37=-94.099;27.357  
p38=-94.237;28.007  
p39=-94.284;28.664  
p40=-94.240;29.327  
p41=-94.100;29.997  
p42=-93.856;30.674  
p43=-93.687;31.005  
p44=-93.481;31.360  
p45=-93.006;31.979  
p46=-92.937;32.054  
p47=-92.320;32.604

p48=-92.094;32.759  
p49=-91.630;33.037  
p50=-90.938;33.326  
p51=-90.313;33.482  
p52=-90.249;33.497  
p53=-89.563;33.552  
p54=-88.884;33.503  
p55=-88.861;33.498

[C3]

gain=-6  
n\_point=69  
p1=-87.622;34.234  
p2=-87.445;34.171  
p3=-86.791;33.827  
p4=-86.382;33.535  
p5=-86.156;33.351  
p6=-85.659;32.837  
p7=-85.549;32.700  
p8=-85.180;32.144  
p9=-84.986;31.758  
p10=-84.853;31.456  
p11=-84.646;30.773  
p12=-84.532;30.096  
p13=-84.530;30.049  
p14=-84.504;29.425  
p15=-84.552;28.759  
p16=-84.672;28.098  
p17=-84.817;27.604  
p18=-84.866;27.442  
p19=-85.136;26.792  
p20=-85.490;26.146  
p21=-85.627;25.942  
p22=-85.951;25.504  
p23=-86.335;25.073  
p24=-86.547;24.866  
p25=-87.006;24.479  
p26=-87.363;24.232  
p27=-87.656;24.049  
p28=-88.291;23.741  
p29=-88.707;23.599  
p30=-88.917;23.530  
p31=-89.534;23.405  
p32=-90.146;23.358  
p33=-90.753;23.390  
p34=-91.358;23.500  
p35=-91.604;23.578  
p36=-91.960;23.697  
p37=-92.563;23.991  
p38=-92.871;24.192  
p39=-93.165;24.405  
p40=-93.614;24.813  
p41=-93.770;24.980  
p42=-94.138;25.440  
p43=-94.380;25.820  
p44=-94.526;26.073  
p45=-94.807;26.712

p46=-95.000;27.341  
p47=-95.004;27.356  
p48=-95.122;28.007  
p49=-95.166;28.663  
p50=-95.136;29.326  
p51=-95.027;29.996  
p52=-95.000;30.095  
p53=-94.832;30.673  
p54=-94.542;31.358  
p55=-94.338;31.720  
p56=-94.132;32.051  
p57=-93.660;32.654  
p58=-93.570;32.752  
p59=-92.972;33.309  
p60=-92.764;33.465  
p61=-92.277;33.792  
p62=-91.579;34.145  
p63=-91.451;34.191  
p64=-90.880;34.386  
p65=-90.181;34.528  
p66=-89.486;34.577  
p67=-88.797;34.536  
p68=-88.115;34.403  
p69=-87.622;34.234

[C4]

gain=-8  
n\_point=77  
p1=-87.191;34.970  
p2=-86.686;34.742  
p3=-86.036;34.336  
p4=-85.942;34.263  
p5=-85.409;33.797  
p6=-85.186;33.557  
p7=-84.812;33.081  
p8=-84.661;32.856  
p9=-84.291;32.161  
p10=-84.262;32.088  
p11=-84.036;31.472  
p12=-83.875;30.789  
p13=-83.823;30.353  
p14=-83.794;30.111  
p15=-83.784;29.439  
p16=-83.841;28.772  
p17=-83.963;28.111  
p18=-84.148;27.455  
p19=-84.204;27.308  
p20=-84.397;26.804  
p21=-84.717;26.158  
p22=-85.021;25.667  
p23=-85.119;25.516  
p24=-85.620;24.879  
p25=-85.736;24.752  
p26=-86.257;24.245  
p27=-86.414;24.111  
p28=-87.068;23.634  
p29=-87.099;23.615

p30=-87.707;23.276  
p31=-88.335;23.013  
p32=-88.424;22.987  
p33=-88.954;22.829  
p34=-89.567;22.719  
p35=-90.175;22.678  
p36=-90.779;22.705  
p37=-91.380;22.802  
p38=-91.944;22.962  
p39=-91.980;22.973  
p40=-92.579;23.223  
p41=-93.179;23.568  
p42=-93.185;23.572  
p43=-93.781;24.030  
p44=-93.953;24.189  
p45=-94.387;24.651  
p46=-94.519;24.811  
p47=-94.951;25.440  
p48=-95.000;25.529  
p49=-95.282;26.073  
p50=-95.529;26.712  
p51=-95.628;27.069  
p52=-95.706;27.357  
p53=-95.816;28.007  
p54=-95.860;28.664  
p55=-95.838;29.327  
p56=-95.747;29.997  
p57=-95.652;30.393  
p58=-95.583;30.673  
p59=-95.338;31.358  
p60=-95.000;32.044  
p61=-94.997;32.050  
p62=-94.539;32.751  
p63=-94.327;33.019  
p64=-93.927;33.461  
p65=-93.640;33.736  
p66=-93.085;34.182  
p67=-92.945;34.284  
p68=-92.243;34.700  
p69=-91.755;34.917  
p70=-91.538;35.010  
p71=-90.831;35.226  
p72=-90.125;35.354  
p73=-89.421;35.399  
p74=-88.723;35.363  
p75=-88.033;35.245  
p76=-87.353;35.040  
p77=-87.191;34.970

[C5]

gain=-10  
n\_point=85  
p1=-87.172;35.710  
p2=-86.598;35.481  
p3=-85.937;35.116  
p4=-85.765;34.995  
p5=-85.296;34.640

p6=-84.919;34.283  
p7=-84.680;34.025  
p8=-84.330;33.575  
p9=-84.101;33.220  
p10=-83.903;32.873  
p11=-83.597;32.176  
p12=-83.575;32.106  
p13=-83.384;31.486  
p14=-83.253;30.802  
p15=-83.195;30.123  
p16=-83.196;30.037  
p17=-83.198;29.451  
p18=-83.262;28.784  
p19=-83.385;28.122  
p20=-83.512;27.666  
p21=-83.566;27.466  
p22=-83.802;26.815  
p23=-84.101;26.168  
p24=-84.385;25.674  
p25=-84.472;25.526  
p26=-84.922;24.889  
p27=-85.119;24.652  
p28=-85.477;24.256  
p29=-85.807;23.936  
p30=-86.172;23.627  
p31=-86.469;23.397  
p32=-87.089;23.001  
p33=-87.114;22.985  
p34=-87.746;22.667  
p35=-88.369;22.432  
p36=-88.582;22.375  
p37=-88.984;22.266  
p38=-89.593;22.165  
p39=-90.198;22.127  
p40=-90.799;22.151  
p41=-91.398;22.239  
p42=-91.836;22.353  
p43=-91.995;22.394  
p44=-92.592;22.617  
p45=-93.190;22.924  
p46=-93.244;22.958  
p47=-93.789;23.324  
p48=-94.090;23.570  
p49=-94.392;23.845  
p50=-94.717;24.188  
p51=-95.000;24.537  
p52=-95.203;24.811  
p53=-95.584;25.440  
p54=-95.618;25.510  
p55=-95.885;26.073  
p56=-96.111;26.713  
p57=-96.259;27.300  
p58=-96.273;27.358  
p59=-96.379;28.008  
p60=-96.425;28.665  
p61=-96.410;29.328  
p62=-96.331;29.998

p63=-96.299;30.144  
p64=-96.188;30.674  
p65=-95.973;31.358  
p66=-95.672;32.050  
p67=-95.665;32.062  
p68=-95.277;32.750  
p69=-95.000;33.148  
p70=-94.760;33.460  
p71=-94.318;33.950  
p72=-94.080;34.179  
p73=-93.625;34.571  
p74=-93.146;34.909  
p75=-92.922;35.057  
p76=-92.214;35.435  
p77=-91.656;35.656  
p78=-91.502;35.716  
p79=-90.789;35.917  
p80=-90.076;36.036  
p81=-89.366;36.079  
p82=-88.661;36.047  
p83=-87.963;35.939  
p84=-87.274;35.750  
p85=-87.172;35.710

[C6]

gain=-15  
n\_point=97  
p1=-87.810;37.210  
p2=-87.122;37.060  
p3=-86.428;36.832  
p4=-85.748;36.517  
p5=-85.697;36.487  
p6=-85.084;36.127  
p7=-84.605;35.760  
p8=-84.443;35.627  
p9=-83.856;35.036  
p10=-83.827;35.004  
p11=-83.308;34.319  
p12=-83.245;34.220  
p13=-82.894;33.608  
p14=-82.712;33.198  
p15=-82.586;32.903  
p16=-82.362;32.205  
p17=-82.261;31.727  
p18=-82.212;31.513  
p19=-82.120;30.828  
p20=-82.091;30.148  
p21=-82.118;29.475  
p22=-82.195;28.807  
p23=-82.321;28.144  
p24=-82.495;27.487  
p25=-82.719;26.835  
p26=-82.999;26.188  
p27=-83.063;26.065  
p28=-83.325;25.546  
p29=-83.717;24.909  
p30=-83.854;24.717

p31=-84.178;24.276  
p32=-84.573;23.815  
p33=-84.728;23.647  
p34=-85.256;23.138  
p35=-85.391;23.021  
p36=-85.916;22.605  
p37=-86.222;22.400  
p38=-86.560;22.182  
p39=-87.190;21.850  
p40=-87.354;21.781  
p41=-87.812;21.583  
p42=-88.426;21.384  
p43=-89.034;21.247  
p44=-89.637;21.165  
p45=-89.776;21.157  
p46=-90.237;21.131  
p47=-90.791;21.151  
p48=-90.833;21.152  
p49=-91.428;21.223  
p50=-92.021;21.349  
p51=-92.614;21.538  
p52=-93.085;21.743  
p53=-93.207;21.796  
p54=-93.802;22.117  
p55=-94.142;22.347  
p56=-94.399;22.528  
p57=-94.907;22.956  
p58=-95.000;23.042  
p59=-95.505;23.570  
p60=-95.607;23.692  
p61=-95.990;24.189  
p62=-96.225;24.554  
p63=-96.385;24.813  
p64=-96.706;25.442  
p65=-96.860;25.825  
p66=-96.963;26.076  
p67=-97.167;26.716  
p68=-97.315;27.361  
p69=-97.411;28.012  
p70=-97.457;28.669  
p71=-97.455;29.332  
p72=-97.400;30.001  
p73=-97.289;30.678  
p74=-97.112;31.362  
p75=-96.987;31.717  
p76=-96.871;32.053  
p77=-96.559;32.753  
p78=-96.349;33.129  
p79=-96.156;33.461  
p80=-95.683;34.129  
p81=-95.646;34.178  
p82=-95.000;34.906  
p83=-95.000;34.906  
p84=-94.303;35.533  
p85=-94.154;35.645  
p86=-93.595;36.043  
p87=-92.971;36.397



p88=-92.880;36.448  
p89=-92.159;36.778  
p90=-91.434;37.021  
p91=-90.778;37.173  
p92=-90.708;37.190  
p93=-89.982;37.300  
p94=-89.258;37.340  
p95=-88.539;37.311  
p96=-87.827;37.214  
p97=-87.810;37.210

[C7]

gain=-20  
n\_point=167  
p1=-83.629;43.903  
p2=-82.928;43.602  
p3=-82.176;43.310  
p4=-81.602;43.081  
p5=-81.437;42.985  
p6=-80.727;42.571  
p7=-80.177;42.265  
p8=-80.026;42.149  
p9=-79.361;41.625  
p10=-79.160;41.453  
p11=-78.735;40.992  
p12=-78.437;40.647  
p13=-78.152;40.242  
p14=-77.908;39.848  
p15=-77.625;39.335  
p16=-77.498;39.060  
p17=-77.147;38.290  
p18=-77.144;38.283  
p19=-76.921;37.513  
p20=-76.739;37.032  
p21=-76.668;36.756  
p22=-76.480;36.008  
p23=-76.369;35.654  
p24=-76.306;35.269  
p25=-76.196;34.539  
p26=-76.085;33.970  
p27=-76.075;33.818  
p28=-76.069;33.102  
p29=-76.075;32.394  
p30=-76.085;31.695  
p31=-76.099;31.071  
p32=-76.106;31.003  
p33=-76.206;30.316  
p34=-76.323;29.635  
p35=-76.458;28.962  
p36=-76.615;28.294  
p37=-76.794;27.632  
p38=-76.990;26.986  
p39=-76.994;26.976  
p40=-77.283;26.323  
p41=-77.566;25.676  
p42=-77.842;25.035  
p43=-78.117;24.400

p44=-78.120;24.393  
p45=-78.494;23.767  
p46=-78.829;23.141  
p47=-79.008;22.825  
p48=-79.219;22.518  
p49=-79.631;21.900  
p50=-79.802;21.655  
p51=-80.104;21.285  
p52=-80.543;20.720  
p53=-80.585;20.674  
p54=-81.155;20.067  
p55=-81.246;19.974  
p56=-81.791;19.463  
p57=-81.924;19.343  
p58=-82.497;18.862  
p59=-82.583;18.795  
p60=-83.228;18.327  
p61=-83.316;18.264  
p62=-83.858;17.938  
p63=-84.274;17.669  
p64=-84.483;17.558  
p65=-85.098;17.242  
p66=-85.388;17.078  
p67=-85.706;16.946  
p68=-86.308;16.705  
p69=-86.807;16.488  
p70=-86.906;16.458  
p71=-87.497;16.306  
p72=-88.084;16.170  
p73=-88.669;16.053  
p74=-89.251;15.960  
p75=-89.831;15.898  
p76=-89.949;15.894  
p77=-90.408;15.883  
p78=-90.870;15.890  
p79=-90.983;15.893  
p80=-91.557;15.948  
p81=-92.130;16.032  
p82=-92.703;16.138  
p83=-93.276;16.263  
p84=-93.850;16.404  
p85=-94.017;16.454  
p86=-94.424;16.631  
p87=-95.000;16.871  
p88=-95.363;17.028  
p89=-95.578;17.158  
p90=-96.158;17.490  
p91=-96.358;17.607  
p92=-96.742;17.887  
p93=-97.194;18.189  
p94=-97.329;18.299  
p95=-97.921;18.752  
p96=-97.949;18.776  
p97=-98.520;19.280  
p98=-98.612;19.365  
p99=-99.125;19.855  
p100=-99.225;19.959

p101=-99.740;20.501  
p102=-99.786;20.557  
p103=-100.260;21.158  
p104=-100.368;21.292  
p105=-100.668;21.763  
p106=-101.017;22.285  
p107=-101.064;22.372  
p108=-101.356;22.985  
p109=-101.672;23.602  
p110=-101.704;23.667  
p111=-101.903;24.224  
p112=-102.119;24.850  
p113=-102.339;25.482  
p114=-102.475;25.880  
p115=-102.534;26.119  
p116=-102.668;26.760  
p117=-102.782;27.407  
p118=-102.874;28.060  
p119=-102.943;28.719  
p120=-102.991;29.384  
p121=-103.018;30.055  
p122=-103.027;30.733  
p123=-103.016;31.419  
p124=-102.996;31.830  
p125=-102.958;32.111  
p126=-102.842;32.812  
p127=-102.717;33.520  
p128=-102.576;34.237  
p129=-102.566;34.277  
p130=-102.307;34.962  
p131=-102.063;35.698  
p132=-102.023;35.804  
p133=-101.695;36.442  
p134=-101.433;37.029  
p135=-101.328;37.197  
p136=-100.892;37.964  
p137=-100.810;38.103  
p138=-100.367;38.743  
p139=-100.158;39.044  
p140=-99.779;39.535  
p141=-99.481;39.890  
p142=-99.084;40.341  
p143=-98.780;40.636  
p144=-98.235;41.162  
p145=-98.058;41.302  
p146=-97.315;41.864  
p147=-97.139;41.999  
p148=-96.556;42.335  
p149=-95.785;42.802  
p150=-95.691;42.856  
p151=-95.000;43.144  
p152=-94.206;43.469  
p153=-93.560;43.739  
p154=-93.401;43.788  
p155=-92.592;43.989  
p156=-91.777;44.166  
p157=-90.958;44.319

p158=-90.136;44.444  
p159=-89.312;44.531  
p160=-88.490;44.571  
p161=-87.671;44.561  
p162=-86.859;44.500  
p163=-86.054;44.398  
p164=-85.256;44.263  
p165=-84.465;44.101  
p166=-83.680;43.918  
p167=-83.629;43.903

[C8]

gain=-20  
n\_point=145  
p1=-87.470;42.064  
p2=-87.225;42.050  
p3=-86.452;41.970  
p4=-85.687;41.844  
p5=-84.935;41.646  
p6=-84.212;41.313  
p7=-84.176;41.292  
p8=-83.480;41.056  
p9=-82.780;40.661  
p10=-82.583;40.505  
p11=-82.093;40.235  
p12=-81.504;39.721  
p13=-81.443;39.676  
p14=-80.803;39.113  
p15=-80.652;38.946  
p16=-80.195;38.446  
p17=-79.980;38.179  
p18=-79.624;37.659  
p19=-79.455;37.420  
p20=-79.103;36.706  
p21=-79.079;36.668  
p22=-78.715;35.926  
p23=-78.626;35.609  
p24=-78.437;35.192  
p25=-78.266;34.465  
p26=-78.229;34.206  
p27=-78.070;33.747  
p28=-77.959;33.036  
p29=-77.936;32.367  
p30=-77.925;32.331  
p31=-77.809;31.637  
p32=-77.807;30.947  
p33=-77.865;30.263  
p34=-77.961;29.584  
p35=-78.086;28.912  
p36=-78.234;28.246  
p37=-78.408;27.586  
p38=-78.613;26.931  
p39=-78.866;26.281  
p40=-79.218;25.634  
p41=-79.233;25.611  
p42=-79.491;24.995  
p43=-79.847;24.359

p44=-80.123;24.002  
p45=-80.276;23.727  
p46=-80.717;23.101  
p47=-80.909;22.885  
p48=-81.197;22.478  
p49=-81.645;21.987  
p50=-81.748;21.859  
p51=-82.334;21.245  
p52=-82.349;21.230  
p53=-82.930;20.635  
p54=-83.032;20.537  
p55=-83.614;20.029  
p56=-83.695;19.956  
p57=-84.341;19.464  
p58=-84.401;19.426  
p59=-84.976;19.012  
p60=-85.356;18.825  
p61=-85.598;18.671  
p62=-86.210;18.387  
p63=-86.733;18.226  
p64=-86.814;18.187  
p65=-87.417;17.960  
p66=-88.011;17.818  
p67=-88.602;17.721  
p68=-89.190;17.655  
p69=-89.667;17.622  
p70=-89.775;17.607  
p71=-90.359;17.574  
p72=-90.940;17.590  
p73=-91.157;17.614  
p74=-91.520;17.634  
p75=-92.100;17.692  
p76=-92.679;17.786  
p77=-93.258;17.930  
p78=-93.837;18.162  
p79=-93.887;18.187  
p80=-94.418;18.355  
p81=-95.000;18.633  
p82=-95.217;18.771  
p83=-95.585;18.947  
p84=-96.161;19.358  
p85=-96.173;19.366  
p86=-96.765;19.777  
p87=-96.957;19.950  
p88=-97.363;20.307  
p89=-97.598;20.546  
p90=-97.970;20.955  
p91=-98.138;21.146  
p92=-98.582;21.750  
p93=-98.588;21.758  
p94=-99.043;22.357  
p95=-99.220;22.667  
p96=-99.432;22.970  
p97=-99.760;23.586  
p98=-99.876;23.862  
p99=-100.079;24.207  
p100=-100.346;24.833

p101=-100.535;25.464  
p102=-100.583;25.656  
p103=-100.757;26.100  
p104=-100.935;26.741  
p105=-101.063;27.387  
p106=-101.156;28.039  
p107=-101.221;28.697  
p108=-101.257;29.361  
p109=-101.260;30.032  
p110=-101.222;30.709  
p111=-101.124;31.393  
p112=-100.990;31.901  
p113=-100.968;32.084  
p114=-100.851;32.785  
p115=-100.657;33.492  
p116=-100.467;33.952  
p117=-100.399;34.208  
p118=-100.158;34.934  
p119=-99.883;35.466  
p120=-99.801;35.669  
p121=-99.422;36.414  
p122=-99.257;36.658  
p123=-98.943;37.170  
p124=-98.598;37.600  
p125=-98.315;37.937  
p126=-97.912;38.362  
p127=-97.518;38.717  
p128=-97.206;39.000  
p129=-96.482;39.503  
p130=-96.471;39.511  
p131=-95.748;40.049  
p132=-95.215;40.321  
p133=-95.000;40.469  
p134=-94.242;40.882  
p135=-93.491;41.152  
p136=-93.476;41.160  
p137=-92.698;41.530  
p138=-91.917;41.761  
p139=-91.135;41.915  
p140=-90.351;42.017  
p141=-90.301;42.021  
p142=-89.562;42.135  
p143=-88.776;42.174  
p144=-87.997;42.140  
p145=-87.470;42.064

[C9]

gain=-20  
n\_point=105  
p1=-87.434;37.990  
p2=-87.017;37.909  
p3=-86.312;37.705  
p4=-85.620;37.421  
p5=-85.312;37.257  
p6=-84.943;37.064  
p7=-84.286;36.617  
p8=-84.169;36.521

p9=-83.651;36.071  
p10=-83.383;35.788  
p11=-83.047;35.394  
p12=-82.801;35.062  
p13=-82.480;34.550  
p14=-82.360;34.342  
p15=-82.024;33.629  
p16=-81.964;33.467  
p17=-81.763;32.924  
p18=-81.583;32.224  
p19=-81.535;31.937  
p20=-81.458;31.532  
p21=-81.389;30.845  
p22=-81.378;30.165  
p23=-81.417;29.491  
p24=-81.503;28.822  
p25=-81.632;28.159  
p26=-81.803;27.502  
p27=-82.021;26.850  
p28=-82.290;26.202  
p29=-82.440;25.902  
p30=-82.602;25.560  
p31=-82.964;24.922  
p32=-83.245;24.508  
p33=-83.393;24.289  
p34=-83.888;23.660  
p35=-83.974;23.563  
p36=-84.465;23.035  
p37=-84.664;22.843  
p38=-85.156;22.413  
p39=-85.329;22.273  
p40=-85.977;21.816  
p41=-86.011;21.795  
p42=-86.612;21.436  
p43=-87.158;21.180  
p44=-87.236;21.142  
p45=-87.852;20.898  
p46=-88.461;20.720  
p47=-89.065;20.598  
p48=-89.348;20.563  
p49=-89.664;20.518  
p50=-90.261;20.486  
p51=-90.854;20.506  
p52=-91.224;20.551  
p53=-91.446;20.575  
p54=-92.037;20.687  
p55=-92.627;20.855  
p56=-93.217;21.091  
p57=-93.319;21.141  
p58=-93.809;21.377  
p59=-94.395;21.741  
p60=-94.403;21.746  
p61=-95.000;22.185  
p62=-95.187;22.346  
p63=-95.602;22.732  
p64=-95.817;22.956  
p65=-96.212;23.420

p66=-96.332;23.571  
p67=-96.759;24.191  
p68=-96.833;24.318  
p69=-97.120;24.815  
p70=-97.408;25.444  
p71=-97.476;25.626  
p72=-97.652;26.079  
p73=-97.842;26.718  
p74=-97.981;27.364  
p75=-98.074;28.015  
p76=-98.123;28.672  
p77=-98.128;29.335  
p78=-98.085;30.005  
p79=-97.992;30.681  
p80=-97.840;31.365  
p81=-97.658;31.940  
p82=-97.623;32.057  
p83=-97.356;32.756  
p84=-97.031;33.403  
p85=-97.000;33.464  
p86=-96.570;34.181  
p87=-96.373;34.456  
p88=-96.027;34.907  
p89=-95.695;35.285  
p90=-95.341;35.644  
p91=-95.000;35.960  
p92=-94.452;36.393  
p93=-94.293;36.513  
p94=-93.576;36.971  
p95=-93.215;37.156  
p96=-92.851;37.345  
p97=-92.121;37.645  
p98=-91.388;37.866  
p99=-91.021;37.943  
p100=-90.652;38.028  
p101=-89.917;38.131  
p102=-89.184;38.169  
p103=-88.455;38.144  
p104=-87.732;38.055  
p105=-87.434;37.990