

[FormatInfo]  
format\_ver=1

[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=9

[B1]  
gain=0.00  
p=-120.327;36.821

[C1]  
gain=-2  
n\_point=39  
p1=-121.265;40.847  
p2=-120.254;40.505  
p3=-119.145;39.951  
p4=-119.069;39.903  
p5=-117.930;39.038  
p6=-117.925;39.034  
p7=-117.184;38.211  
p8=-116.652;37.408  
p9=-116.313;36.627  
p10=-116.154;35.866  
p11=-116.169;35.123  
p12=-116.328;34.516  
p13=-116.378;34.399  
p14=-116.850;33.752  
p15=-116.914;33.697  
p16=-117.480;33.344  
p17=-118.171;33.124  
p18=-118.920;33.071  
p19=-119.732;33.181  
p20=-120.618;33.462  
p21=-121.566;33.913  
p22=-121.593;33.928  
p23=-122.690;34.701  
p24=-122.746;34.749  
p25=-123.503;35.485  
p26=-124.152;36.272  
p27=-124.645;37.063  
p28=-124.975;37.857  
p29=-125.132;38.653  
p30=-125.095;39.449  
p31=-125.078;39.508  
p32=-124.688;40.235  
p33=-124.616;40.317

p34=-123.947;40.757  
p35=-123.235;40.967  
p36=-123.160;40.985  
p37=-122.268;41.006  
p38=-121.301;40.859  
p39=-121.265;40.847

[C2]

gain=-4

n\_point=55

p1=-122.172;42.595  
p2=-121.148;42.329  
p3=-120.044;41.912  
p4=-119.352;41.574  
p5=-118.892;41.324  
p6=-117.885;40.659  
p7=-117.684;40.507  
p8=-116.862;39.789  
p9=-116.371;39.272  
p10=-116.091;38.949  
p11=-115.516;38.133  
p12=-115.089;37.338  
p13=-114.796;36.562  
p14=-114.628;35.802  
p15=-114.581;35.058  
p16=-114.657;34.328  
p17=-114.707;34.143  
p18=-114.893;33.615  
p19=-115.165;33.128  
p20=-115.323;32.918  
p21=-115.729;32.505  
p22=-116.098;32.242  
p23=-116.351;32.091  
p24=-117.017;31.834  
p25=-117.720;31.695  
p26=-118.461;31.668  
p27=-119.244;31.751  
p28=-120.075;31.948  
p29=-120.963;32.267  
p30=-121.405;32.475  
p31=-121.930;32.746  
p32=-122.747;33.253  
p33=-123.012;33.439  
p34=-123.760;34.028  
p35=-124.313;34.530  
p36=-124.599;34.806  
p37=-125.300;35.588  
p38=-125.897;36.376  
p39=-126.393;37.170  
p40=-126.783;37.971  
p41=-127.059;38.777  
p42=-127.209;39.588  
p43=-127.213;39.981  
p44=-127.185;40.401  
p45=-126.976;41.126  
p46=-126.934;41.213  
p47=-126.467;41.839

p48=-126.258;42.009  
p49=-125.801;42.310  
p50=-125.022;42.601  
p51=-124.236;42.729  
p52=-124.155;42.741  
p53=-123.211;42.737  
p54=-122.207;42.604  
p55=-122.172;42.595

[C3]

gain=-6  
n\_point=69  
p1=-121.033;43.395  
p2=-120.739;43.297  
p3=-119.581;42.799  
p4=-118.820;42.395  
p5=-118.390;42.146  
p6=-117.390;41.467  
p7=-117.158;41.289  
p8=-116.334;40.581  
p9=-115.856;40.099  
p10=-115.512;39.725  
p11=-114.869;38.894  
p12=-114.368;38.083  
p13=-114.340;38.028  
p14=-113.990;37.292  
p15=-113.722;36.518  
p16=-113.556;35.759  
p17=-113.505;35.199  
p18=-113.490;35.016  
p19=-113.527;34.285  
p20=-113.672;33.569  
p21=-113.750;33.346  
p22=-113.953;32.866  
p23=-114.234;32.400  
p24=-114.403;32.178  
p25=-114.796;31.766  
p26=-115.125;31.507  
p27=-115.404;31.318  
p28=-116.047;31.006  
p29=-116.493;30.869  
p30=-116.721;30.803  
p31=-117.424;30.697  
p32=-118.157;30.680  
p33=-118.924;30.751  
p34=-119.728;30.913  
p35=-120.073;31.017  
p36=-120.578;31.175  
p37=-121.483;31.549  
p38=-121.976;31.799  
p39=-122.463;32.065  
p40=-123.256;32.567  
p41=-123.548;32.772  
p42=-124.282;33.334  
p43=-124.819;33.797  
p44=-125.159;34.105  
p45=-125.921;34.881

p46=-126.578;35.646  
p47=-126.593;35.665  
p48=-127.182;36.455  
p49=-127.691;37.253  
p50=-128.119;38.059  
p51=-128.459;38.872  
p52=-128.494;38.991  
p53=-128.696;39.691  
p54=-128.813;40.516  
p55=-128.807;40.949  
p56=-128.774;41.344  
p57=-128.576;42.057  
p58=-128.525;42.172  
p59=-128.103;42.814  
p60=-127.925;42.989  
p61=-127.475;43.353  
p62=-126.730;43.725  
p63=-126.577;43.769  
p64=-125.887;43.953  
p65=-124.967;44.053  
p66=-123.983;44.037  
p67=-122.944;43.906  
p68=-121.861;43.661  
p69=-121.033;43.395

[C4]

gain=-8  
n\_point=77  
p1=-121.043;44.286  
p2=-120.155;43.941  
p3=-118.956;43.363  
p4=-118.775;43.261  
p5=-117.729;42.629  
p6=-117.272;42.311  
p7=-116.470;41.692  
p8=-116.133;41.404  
p9=-115.236;40.529  
p10=-115.155;40.438  
p11=-114.518;39.680  
p12=-113.944;38.853  
p13=-113.650;38.334  
p14=-113.490;38.047  
p15=-113.142;37.258  
p16=-112.890;36.486  
p17=-112.729;35.728  
p18=-112.656;34.985  
p19=-112.658;34.819  
p20=-112.670;34.254  
p21=-112.776;33.537  
p22=-112.933;32.997  
p23=-112.988;32.832  
p24=-113.324;32.139  
p25=-113.411;32.002  
p26=-113.828;31.461  
p27=-113.961;31.317  
p28=-114.554;30.817  
p29=-114.584;30.798

p30=-115.178;30.451  
p31=-115.829;30.189  
p32=-115.925;30.164  
p33=-116.505;30.017  
p34=-117.206;29.926  
p35=-117.933;29.914  
p36=-118.688;29.979  
p37=-119.476;30.123  
p38=-120.253;30.338  
p39=-120.302;30.352  
p40=-121.174;30.674  
p41=-122.102;31.105  
p42=-122.112;31.110  
p43=-123.107;31.675  
p44=-123.411;31.870  
p45=-124.223;32.435  
p46=-124.484;32.631  
p47=-125.408;33.395  
p48=-125.525;33.503  
p49=-126.226;34.166  
p50=-126.958;34.943  
p51=-127.321;35.377  
p52=-127.618;35.728  
p53=-128.211;36.521  
p54=-128.736;37.322  
p55=-129.193;38.131  
p56=-129.574;38.949  
p57=-129.747;39.432  
p58=-129.872;39.774  
p59=-130.073;40.607  
p60=-130.152;41.438  
p61=-130.152;41.446  
p62=-130.075;42.288  
p63=-129.991;42.607  
p64=-129.781;43.130  
p65=-129.592;43.452  
p66=-129.147;43.962  
p67=-129.026;44.078  
p68=-128.328;44.534  
p69=-127.774;44.755  
p70=-127.526;44.850  
p71=-126.638;45.044  
p72=-125.677;45.123  
p73=-124.656;45.096  
p74=-123.586;44.966  
p75=-122.475;44.733  
p76=-121.329;44.393  
p77=-121.043;44.286

[C5]

gain=-10  
n\_point=85  
p1=-121.664;45.236  
p2=-120.653;44.877  
p3=-119.438;44.339  
p4=-119.109;44.168  
p5=-118.204;43.672

p6=-117.443;43.187  
p7=-116.948;42.844  
p8=-116.188;42.255  
p9=-115.663;41.799  
p10=-115.194;41.358  
p11=-114.392;40.490  
p12=-114.323;40.404  
p13=-113.735;39.646  
p14=-113.207;38.823  
p15=-112.787;38.019  
p16=-112.745;37.917  
p17=-112.459;37.232  
p18=-112.219;36.461  
p19=-112.064;35.704  
p20=-112.011;35.187  
p21=-111.988;34.961  
p22=-111.987;34.231  
p23=-112.071;33.513  
p24=-112.203;32.968  
p25=-112.246;32.807  
p26=-112.522;32.112  
p27=-112.661;31.856  
p28=-112.928;31.430  
p29=-113.194;31.089  
p30=-113.506;30.761  
p31=-113.770;30.520  
p32=-114.353;30.108  
p33=-114.377;30.093  
p34=-115.008;29.770  
p35=-115.663;29.541  
p36=-115.897;29.487  
p37=-116.339;29.387  
p38=-117.036;29.306  
p39=-117.758;29.296  
p40=-118.505;29.357  
p41=-119.282;29.490  
p42=-119.875;29.643  
p43=-120.092;29.699  
p44=-120.940;29.986  
p45=-121.839;30.371  
p46=-121.924;30.413  
p47=-122.798;30.865  
p48=-123.309;31.168  
p49=-123.841;31.505  
p50=-124.445;31.923  
p51=-125.007;32.347  
p52=-125.429;32.682  
p53=-126.300;33.446  
p54=-126.388;33.530  
p55=-127.092;34.217  
p56=-127.808;34.995  
p57=-128.402;35.711  
p58=-128.461;35.781  
p59=-129.063;36.576  
p60=-129.604;37.380  
p61=-130.084;38.193  
p62=-130.497;39.014

p63=-130.568;39.194  
p64=-130.842;39.845  
p65=-131.103;40.684  
p66=-131.257;41.530  
p67=-131.258;41.545  
p68=-131.293;42.383  
p69=-131.236;42.863  
p70=-131.159;43.238  
p71=-130.940;43.823  
p72=-130.788;44.092  
p73=-130.455;44.548  
p74=-130.031;44.933  
p75=-129.825;45.098  
p76=-129.077;45.505  
p77=-128.412;45.724  
p78=-128.230;45.784  
p79=-127.305;45.955  
p80=-126.309;46.020  
p81=-125.255;45.984  
p82=-124.155;45.853  
p83=-123.016;45.626  
p84=-121.845;45.299  
p85=-121.664;45.236

[C6]

gain=-15  
n\_point=97  
p1=-124.084;47.295  
p2=-122.895;47.005  
p3=-121.655;46.617  
p4=-120.393;46.124  
p5=-120.293;46.079  
p6=-119.128;45.544  
p7=-118.173;45.021  
p8=-117.849;44.834  
p9=-116.622;44.029  
p10=-116.561;43.985  
p11=-115.407;43.082  
p12=-115.260;42.954  
p13=-114.415;42.169  
p14=-113.931;41.654  
p15=-113.598;41.285  
p16=-112.918;40.426  
p17=-112.529;39.848  
p18=-112.355;39.589  
p19=-111.885;38.771  
p20=-111.510;37.971  
p21=-111.219;37.187  
p22=-111.002;36.418  
p23=-110.854;35.663  
p24=-110.774;34.920  
p25=-110.763;34.191  
p26=-110.825;33.472  
p27=-110.850;33.336  
p28=-110.950;32.765  
p29=-111.158;32.069  
p30=-111.244;31.861

p31=-111.453;31.383  
p32=-111.741;30.888  
p33=-111.859;30.708  
p34=-112.286;30.168  
p35=-112.401;30.045  
p36=-112.863;29.608  
p37=-113.146;29.395  
p38=-113.463;29.170  
p39=-114.084;28.832  
p40=-114.251;28.763  
p41=-114.722;28.567  
p42=-115.378;28.376  
p43=-116.053;28.254  
p44=-116.746;28.193  
p45=-116.911;28.192  
p46=-117.458;28.186  
p47=-118.139;28.237  
p48=-118.191;28.241  
p49=-118.948;28.351  
p50=-119.732;28.525  
p51=-120.549;28.770  
p52=-121.228;29.028  
p53=-121.405;29.095  
p54=-122.303;29.494  
p55=-122.844;29.775  
p56=-123.261;29.997  
p57=-124.128;30.519  
p58=-124.293;30.624  
p59=-125.228;31.265  
p60=-125.429;31.414  
p61=-126.211;32.017  
p62=-126.732;32.460  
p63=-127.100;32.775  
p64=-127.918;33.540  
p65=-128.370;34.006  
p66=-128.675;34.312  
p67=-129.387;35.094  
p68=-130.046;35.884  
p69=-130.660;36.683  
p70=-131.231;37.493  
p71=-131.758;38.312  
p72=-132.237;39.142  
p73=-132.660;39.982  
p74=-133.012;40.831  
p75=-133.151;41.272  
p76=-133.293;41.690  
p77=-133.491;42.559  
p78=-133.537;43.024  
p79=-133.572;43.435  
p80=-133.514;44.256  
p81=-133.505;44.317  
p82=-133.240;45.200  
p83=-133.239;45.200  
p84=-132.783;45.946  
p85=-132.662;46.076  
p86=-132.181;46.536  
p87=-131.537;46.925



p88=-131.443;46.981  
p89=-130.612;47.324  
p90=-129.679;47.548  
p91=-128.764;47.659  
p92=-128.668;47.672  
p93=-127.604;47.716  
p94=-126.482;47.667  
p95=-125.316;47.529  
p96=-124.114;47.302  
p97=-124.084;47.295

[C7]

gain=-20  
n\_point=163  
p1=-168.415;57.421  
p2=-166.683;59.970  
p3=-161.017;59.636  
p4=-157.941;59.712  
p5=-156.121;59.878  
p6=-155.513;59.869  
p7=-152.404;59.754  
p8=-149.652;59.653  
p9=-147.113;59.546  
p10=-144.699;59.413  
p11=-142.350;59.236  
p12=-140.026;58.995  
p13=-137.726;58.684  
p14=-135.467;58.309  
p15=-133.280;57.887  
p16=-131.187;57.436  
p17=-129.191;56.966  
p18=-127.290;56.483  
p19=-127.163;56.447  
p20=-125.308;55.814  
p21=-123.503;55.208  
p22=-122.188;54.752  
p23=-121.774;54.577  
p24=-120.056;53.836  
p25=-118.815;53.299  
p26=-118.443;53.108  
p27=-116.844;52.259  
p28=-116.365;51.988  
p29=-115.272;51.288  
p30=-114.513;50.774  
p31=-113.736;50.189  
p32=-113.048;49.631  
p33=-112.229;48.917  
p34=-111.833;48.541  
p35=-110.775;47.504  
p36=-110.767;47.495  
p37=-109.917;46.489  
p38=-109.359;45.865  
p39=-109.086;45.513  
p40=-108.375;44.567  
p41=-108.027;44.123  
p42=-107.720;43.647  
p43=-107.169;42.752

p44=-106.729;42.059  
p45=-106.636;41.877  
p46=-106.253;41.024  
p47=-105.904;40.190  
p48=-105.582;39.371  
p49=-105.311;38.646  
p50=-105.288;38.568  
p51=-105.094;37.781  
p52=-104.933;37.007  
p53=-104.804;36.246  
p54=-104.710;35.497  
p55=-104.651;34.759  
p56=-104.624;34.044  
p57=-104.624;34.032  
p58=-104.699;33.317  
p59=-104.777;32.610  
p60=-104.858;31.912  
p61=-104.944;31.222  
p62=-104.946;31.215  
p63=-105.145;30.542  
p64=-105.310;29.869  
p65=-105.406;29.530  
p66=-105.539;29.203  
p67=-105.799;28.545  
p68=-105.912;28.285  
p69=-106.129;27.894  
p70=-106.443;27.298  
p71=-106.474;27.250  
p72=-106.921;26.614  
p73=-106.993;26.516  
p74=-107.443;25.984  
p75=-107.555;25.860  
p76=-108.049;25.362  
p77=-108.125;25.292  
p78=-108.703;24.811  
p79=-108.783;24.747  
p80=-109.292;24.415  
p81=-109.679;24.141  
p82=-109.880;24.028  
p83=-110.478;23.709  
p84=-110.758;23.543  
p85=-111.078;23.413  
p86=-111.688;23.175  
p87=-112.194;22.959  
p88=-112.298;22.930  
p89=-112.924;22.787  
p90=-113.556;22.662  
p91=-114.194;22.557  
p92=-114.839;22.478  
p93=-115.494;22.434  
p94=-115.631;22.433  
p95=-116.162;22.438  
p96=-116.706;22.463  
p97=-116.841;22.471  
p98=-117.535;22.553  
p99=-118.242;22.667  
p100=-118.962;22.806

p101=-119.695;22.966  
p102=-120.441;23.145  
p103=-120.662;23.206  
p104=-121.221;23.418  
p105=-122.019;23.708  
p106=-122.529;23.899  
p107=-122.844;24.052  
p108=-123.701;24.447  
p109=-124.001;24.587  
p110=-124.600;24.917  
p111=-125.309;25.278  
p112=-125.529;25.407  
p113=-126.500;25.948  
p114=-126.548;25.976  
p115=-127.534;26.577  
p116=-127.698;26.679  
p117=-128.628;27.266  
p118=-128.816;27.391  
p119=-129.804;28.043  
p120=-129.897;28.110  
p121=-130.888;28.834  
p122=-131.118;28.996  
p123=-131.815;29.563  
p124=-132.639;30.199  
p125=-132.761;30.304  
p126=-133.579;31.048  
p127=-134.474;31.806  
p128=-134.568;31.886  
p129=-135.267;32.568  
p130=-136.075;33.342  
p131=-136.935;34.131  
p132=-137.493;34.633  
p133=-137.795;34.932  
p134=-138.596;35.741  
p135=-139.412;36.564  
p136=-140.242;37.401  
p137=-141.088;38.254  
p138=-141.958;39.124  
p139=-142.861;40.012  
p140=-143.809;40.921  
p141=-144.812;41.854  
p142=-145.427;42.418  
p143=-145.811;42.804  
p144=-146.783;43.773  
p145=-147.869;44.774  
p146=-149.080;45.811  
p147=-149.146;45.870  
p148=-150.089;46.851  
p149=-151.400;47.951  
p150=-151.593;48.111  
p151=-152.536;49.060  
p152=-153.731;49.979  
p153=-153.992;50.236  
p154=-155.582;51.463  
p155=-155.907;51.692  
p156=-157.298;52.744  
p157=-158.104;53.262

p158=-159.462;54.123  
p159=-160.547;54.765  
p160=-162.249;55.631  
p161=-163.287;56.194  
p162=-167.232;57.486  
p163=-167.403;59.443

[C8]

gain=-20  
n\_point=145  
p1=-130.620;54.281  
p2=-130.123;54.207  
p3=-128.532;53.925  
p4=-126.943;53.584  
p5=-125.333;53.148  
p6=-123.646;52.532  
p7=-123.556;52.494  
p8=-122.136;52.041  
p9=-120.566;51.370  
p10=-120.085;51.122  
p11=-119.059;50.676  
p12=-117.667;49.891  
p13=-117.535;49.821  
p14=-116.100;48.981  
p15=-115.742;48.742  
p16=-114.688;48.028  
p17=-114.179;47.655  
p18=-113.298;46.943  
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p20=-111.924;45.677  
p21=-111.866;45.625  
p22=-110.909;44.662  
p23=-110.591;44.261  
p24=-110.100;43.731  
p25=-109.453;42.827  
p26=-109.257;42.511  
p27=-108.812;41.944  
p28=-108.295;41.084  
p29=-107.919;40.289  
p30=-107.889;40.245  
p31=-107.416;39.420  
p32=-107.088;38.614  
p33=-106.841;37.824  
p34=-106.650;37.048  
p35=-106.505;36.285  
p36=-106.399;35.535  
p37=-106.331;34.796  
p38=-106.306;34.068  
p39=-106.343;33.351  
p40=-106.494;32.646  
p41=-106.502;32.621  
p42=-106.570;31.947  
p43=-106.744;31.259  
p44=-106.925;30.877  
p45=-107.003;30.580  
p46=-107.281;29.909  
p47=-107.422;29.681

p48=-107.610;29.246  
p49=-107.949;28.726  
p50=-108.023;28.591  
p51=-108.481;27.943  
p52=-108.493;27.928  
p53=-108.959;27.303  
p54=-109.043;27.200  
p55=-109.540;26.670  
p56=-109.608;26.594  
p57=-110.186;26.085  
p58=-110.242;26.045  
p59=-110.768;25.619  
p60=-111.140;25.431  
p61=-111.369;25.273  
p62=-111.979;24.989  
p63=-112.524;24.835  
p64=-112.606;24.796  
p65=-113.228;24.573  
p66=-113.869;24.442  
p67=-114.521;24.360  
p68=-115.184;24.313  
p69=-115.732;24.296  
p70=-115.854;24.285  
p71=-116.532;24.273  
p72=-117.226;24.315  
p73=-117.492;24.351  
p74=-117.934;24.388  
p75=-118.652;24.478  
p76=-119.387;24.606  
p77=-120.144;24.791  
p78=-120.939;25.075  
p79=-121.010;25.105  
p80=-121.735;25.317  
p81=-122.573;25.655  
p82=-122.900;25.819  
p83=-123.440;26.035  
p84=-124.347;26.526  
p85=-124.366;26.535  
p86=-125.315;27.031  
p87=-125.643;27.237  
p88=-126.342;27.665  
p89=-126.767;27.951  
p90=-127.463;28.439  
p91=-127.786;28.669  
p92=-128.702;29.391  
p93=-128.715;29.400  
p94=-129.677;30.126  
p95=-130.099;30.497  
p96=-130.581;30.867  
p97=-131.426;31.615  
p98=-131.767;31.949  
p99=-132.294;32.375  
p100=-133.117;33.143  
p101=-133.853;33.917  
p102=-134.067;34.153  
p103=-134.681;34.708  
p104=-135.479;35.509

p105=-136.236;36.320  
p106=-136.979;37.143  
p107=-137.719;37.979  
p108=-138.460;38.830  
p109=-139.196;39.695  
p110=-139.912;40.574  
p111=-140.571;41.465  
p112=-140.968;42.124  
p113=-141.175;42.368  
p114=-141.943;43.304  
p115=-142.627;44.253  
p116=-142.964;44.865  
p117=-143.254;45.216  
p118=-144.028;46.216  
p119=-144.413;46.938  
p120=-144.632;47.223  
p121=-145.303;48.262  
p122=-145.437;48.595  
p123=-145.844;49.314  
p124=-145.998;49.902  
p125=-146.111;50.365  
p126=-146.141;50.939  
p127=-146.025;51.407  
p128=-145.952;51.783  
p129=-145.357;52.404  
p130=-145.347;52.413  
p131=-144.910;53.104  
p132=-144.217;53.401  
p133=-144.066;53.588  
p134=-143.211;54.064  
p135=-141.971;54.297  
p136=-141.956;54.308  
p137=-140.996;54.714  
p138=-139.654;54.882  
p139=-138.146;54.923  
p140=-136.564;54.883  
p141=-136.460;54.876  
p142=-135.083;54.879  
p143=-133.485;54.751  
p144=-131.813;54.517  
p145=-130.620;54.281

[C9]

gain=-20  
n\_point=105  
p1=-124.381;48.302  
p2=-123.652;48.135  
p3=-122.375;47.766  
p4=-121.078;47.301  
p5=-120.478;47.046  
p6=-119.777;46.748  
p7=-118.470;46.090  
p8=-118.229;45.953  
p9=-117.164;45.320  
p10=-116.587;44.932  
p11=-115.851;44.400  
p12=-115.294;43.960

p13=-114.530;43.293  
p14=-114.240;43.025  
p15=-113.365;42.122  
p16=-113.192;41.919  
p17=-112.620;41.244  
p18=-112.005;40.389  
p19=-111.790;40.042  
p20=-111.482;39.555  
p21=-111.046;38.740  
p22=-110.699;37.942  
p23=-110.427;37.160  
p24=-110.223;36.392  
p25=-110.082;35.638  
p26=-110.002;34.896  
p27=-109.985;34.166  
p28=-110.036;33.448  
p29=-110.090;33.117  
p30=-110.145;32.741  
p31=-110.319;32.044  
p32=-110.487;31.594  
p33=-110.577;31.357  
p34=-110.917;30.680  
p35=-110.981;30.576  
p36=-111.358;30.014  
p37=-111.519;29.810  
p38=-111.937;29.358  
p39=-112.088;29.210  
p40=-112.679;28.736  
p41=-112.711;28.714  
p42=-113.286;28.345  
p43=-113.834;28.088  
p44=-113.912;28.050  
p45=-114.551;27.810  
p46=-115.208;27.642  
p47=-115.881;27.536  
p48=-116.206;27.510  
p49=-116.568;27.477  
p50=-117.273;27.471  
p51=-117.999;27.522  
p52=-118.466;27.591  
p53=-118.746;27.629  
p54=-119.516;27.785  
p55=-120.315;28.005  
p56=-121.150;28.302  
p57=-121.299;28.364  
p58=-122.019;28.657  
p59=-122.929;29.104  
p60=-122.940;29.110  
p61=-123.916;29.645  
p62=-124.236;29.841  
p63=-124.971;30.310  
p64=-125.369;30.581  
p65=-126.138;31.143  
p66=-126.380;31.326  
p67=-127.303;32.077  
p68=-127.478;32.233  
p69=-128.166;32.836

p70=-128.955;33.602  
p71=-129.166;33.824  
p72=-129.712;34.377  
p73=-130.422;35.161  
p74=-131.088;35.954  
p75=-131.716;36.756  
p76=-132.310;37.570  
p77=-132.869;38.393  
p78=-133.389;39.229  
p79=-133.863;40.075  
p80=-134.277;40.931  
p81=-134.558;41.652  
p82=-134.621;41.798  
p83=-134.921;42.678  
p84=-135.088;43.488  
p85=-135.105;43.565  
p86=-135.200;44.463  
p87=-135.188;44.806  
p88=-135.135;45.366  
p89=-135.021;45.832  
p90=-134.850;46.269  
p91=-134.651;46.652  
p92=-134.235;47.164  
p93=-134.109;47.305  
p94=-133.434;47.829  
p95=-133.034;48.029  
p96=-132.638;48.234  
p97=-131.741;48.536  
p98=-130.743;48.725  
p99=-130.206;48.774  
p100=-129.682;48.835  
p101=-128.562;48.863  
p102=-127.388;48.803  
p103=-126.171;48.660  
p104=-124.920;48.433  
p105=-124.381;48.302