

[FormatInfo]  
format\_ver=1

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

[COHeader]  
beam\_id=RD13  
emi\_rcp=E  
polar\_disc=C  
reason=C  
n\_bore=1  
n\_cont=9

[B1]  
gain=0.00  
p=-113.417;28.958

[C1]  
gain=-2  
n\_point=39  
p1=-113.478;32.378  
p2=-112.720;32.111  
p3=-111.908;31.666  
p4=-111.853;31.626  
p5=-111.050;30.912  
p6=-111.047;30.908  
p7=-110.552;30.216  
p8=-110.221;29.533  
p9=-110.042;28.861  
p10=-110.008;28.199  
p11=-110.119;27.547  
p12=-110.335;27.010  
p13=-110.392;26.905  
p14=-110.883;26.326  
p15=-110.947;26.276  
p16=-111.482;25.953  
p17=-112.110;25.747  
p18=-112.765;25.687  
p19=-113.450;25.772  
p20=-114.170;26.005  
p21=-114.913;26.387  
p22=-114.934;26.400  
p23=-115.740;27.060  
p24=-115.779;27.101  
p25=-116.291;27.731  
p26=-116.692;28.404  
p27=-116.953;29.079  
p28=-117.071;29.756  
p29=-117.040;30.433  
p30=-116.848;31.112  
p31=-116.822;31.162  
p32=-116.358;31.786  
p33=-116.284;31.857

p34=-115.656;32.243  
p35=-115.042;32.435  
p36=-114.979;32.452  
p37=-114.258;32.490  
p38=-113.506;32.387  
p39=-113.478;32.378

[C2]

gain=-4

n\_point=55

p1=-113.849;33.815  
p2=-113.088;33.618  
p3=-112.281;33.296  
p4=-111.783;33.028  
p5=-111.454;32.828  
p6=-110.742;32.289  
p7=-110.602;32.164  
p8=-110.036;31.572  
p9=-109.705;31.140  
p10=-109.518;30.869  
p11=-109.149;30.179  
p12=-108.896;29.498  
p13=-108.747;28.828  
p14=-108.699;28.167  
p15=-108.750;27.514  
p16=-108.904;26.870  
p17=-108.969;26.705  
p18=-109.193;26.234  
p19=-109.488;25.797  
p20=-109.651;25.607  
p21=-110.055;25.233  
p22=-110.409;24.992  
p23=-110.648;24.854  
p24=-111.262;24.613  
p25=-111.894;24.477  
p26=-112.545;24.441  
p27=-113.216;24.504  
p28=-113.911;24.666  
p29=-114.633;24.937  
p30=-114.983;25.114  
p31=-115.394;25.346  
p32=-116.013;25.781  
p33=-116.209;25.941  
p34=-116.746;26.447  
p35=-117.126;26.878  
p36=-117.318;27.114  
p37=-117.760;27.784  
p38=-118.104;28.457  
p39=-118.353;29.133  
p40=-118.505;29.812  
p41=-118.556;30.494  
p42=-118.496;31.179  
p43=-118.412;31.511  
p44=-118.294;31.865  
p45=-117.963;32.478  
p46=-117.910;32.551  
p47=-117.398;33.084

p48=-117.195;33.231  
p49=-116.768;33.491  
p50=-116.093;33.751  
p51=-115.448;33.877  
p52=-115.382;33.889  
p53=-114.641;33.908  
p54=-113.876;33.822  
p55=-113.849;33.815

[C3]

gain=-6  
n\_point=69  
p1=-112.771;34.501  
p2=-112.558;34.426  
p3=-111.732;34.041  
p4=-111.194;33.723  
p5=-110.891;33.525  
p6=-110.194;32.978  
p7=-110.033;32.833  
p8=-109.467;32.253  
p9=-109.143;31.853  
p10=-108.911;31.541  
p11=-108.491;30.842  
p12=-108.176;30.154  
p13=-108.160;30.107  
p14=-107.957;29.476  
p15=-107.824;28.807  
p16=-107.773;28.146  
p17=-107.795;27.655  
p18=-107.803;27.493  
p19=-107.919;26.848  
p20=-108.127;26.211  
p21=-108.220;26.011  
p22=-108.451;25.581  
p23=-108.750;25.161  
p24=-108.924;24.959  
p25=-109.315;24.585  
p26=-109.634;24.348  
p27=-109.901;24.173  
p28=-110.503;23.884  
p29=-110.912;23.754  
p30=-111.120;23.691  
p31=-111.751;23.585  
p32=-112.398;23.559  
p33=-113.061;23.611  
p34=-113.743;23.743  
p35=-114.029;23.831  
p36=-114.447;23.965  
p37=-115.179;24.285  
p38=-115.567;24.500  
p39=-115.946;24.729  
p40=-116.548;25.162  
p41=-116.765;25.339  
p42=-117.295;25.823  
p43=-117.669;26.222  
p44=-117.902;26.487  
p45=-118.397;27.153

p46=-118.795;27.807  
p47=-118.805;27.823  
p48=-119.131;28.497  
p49=-119.379;29.174  
p50=-119.550;29.855  
p51=-119.640;30.540  
p52=-119.640;30.640  
p53=-119.637;31.228  
p54=-119.532;31.919  
p55=-119.421;32.282  
p56=-119.298;32.612  
p57=-118.967;33.209  
p58=-118.899;33.306  
p59=-118.412;33.846  
p60=-118.231;33.995  
p61=-117.795;34.305  
p62=-117.131;34.629  
p63=-117.003;34.669  
p64=-116.430;34.837  
p65=-115.698;34.943  
p66=-114.942;34.954  
p67=-114.165;34.873  
p68=-113.369;34.699  
p69=-112.771;34.501

[C4]

gain=-8  
n\_point=77  
p1=-112.585;35.228  
p2=-111.956;34.967  
p3=-111.115;34.520  
p4=-110.989;34.440  
p5=-110.262;33.939  
p6=-109.946;33.684  
p7=-109.395;33.183  
p8=-109.164;32.949  
p9=-108.556;32.228  
p10=-108.503;32.153  
p11=-108.079;31.520  
p12=-107.709;30.824  
p13=-107.527;30.382  
p14=-107.429;30.137  
p15=-107.229;29.460  
p16=-107.106;28.791  
p17=-107.056;28.131  
p18=-107.077;27.479  
p19=-107.097;27.332  
p20=-107.170;26.833  
p21=-107.341;26.195  
p22=-107.536;25.712  
p23=-107.603;25.564  
p24=-107.972;24.940  
p25=-108.064;24.816  
p26=-108.489;24.324  
p27=-108.622;24.193  
p28=-109.200;23.735  
p29=-109.229;23.717

p30=-109.793;23.395  
p31=-110.398;23.150  
p32=-110.486;23.126  
p33=-111.015;22.984  
p34=-111.645;22.892  
p35=-112.288;22.870  
p36=-112.946;22.917  
p37=-113.619;23.035  
p38=-114.271;23.217  
p39=-114.312;23.229  
p40=-115.028;23.504  
p41=-115.771;23.876  
p42=-115.779;23.881  
p43=-116.552;24.369  
p44=-116.783;24.538  
p45=-117.386;25.026  
p46=-117.576;25.195  
p47=-118.227;25.855  
p48=-118.307;25.948  
p49=-118.775;26.518  
p50=-119.236;27.185  
p51=-119.451;27.556  
p52=-119.625;27.855  
p53=-119.944;28.529  
p54=-120.197;29.208  
p55=-120.381;29.890  
p56=-120.492;30.577  
p57=-120.512;30.982  
p58=-120.527;31.268  
p59=-120.475;31.962  
p60=-120.322;32.653  
p61=-120.321;32.659  
p62=-120.040;33.358  
p63=-119.891;33.624  
p64=-119.590;34.058  
p65=-119.361;34.327  
p66=-118.886;34.754  
p67=-118.764;34.852  
p68=-118.116;35.240  
p69=-117.642;35.435  
p70=-117.430;35.518  
p71=-116.711;35.699  
p72=-115.965;35.789  
p73=-115.196;35.794  
p74=-114.408;35.717  
p75=-113.604;35.556  
p76=-112.786;35.309  
p77=-112.585;35.228

[C5]

gain=-10  
n\_point=85  
p1=-112.853;35.982  
p2=-112.145;35.716  
p3=-111.301;35.307  
p4=-111.074;35.176  
p5=-110.448;34.789

p6=-109.925;34.406  
p7=-109.585;34.133  
p8=-109.065;33.659  
p9=-108.708;33.288  
p10=-108.390;32.928  
p11=-107.853;32.210  
p12=-107.807;32.139  
p13=-107.420;31.504  
p14=-107.083;30.809  
p15=-106.828;30.124  
p16=-106.804;30.037  
p17=-106.642;29.447  
p18=-106.526;28.779  
p19=-106.477;28.119  
p20=-106.488;27.666  
p21=-106.493;27.467  
p22=-106.570;26.822  
p23=-106.719;26.183  
p24=-106.893;25.696  
p25=-106.948;25.551  
p26=-107.263;24.927  
p27=-107.411;24.695  
p28=-107.691;24.308  
p29=-107.962;23.998  
p30=-108.273;23.698  
p31=-108.532;23.477  
p32=-109.093;23.097  
p33=-109.116;23.082  
p34=-109.711;22.781  
p35=-110.318;22.564  
p36=-110.531;22.513  
p37=-110.935;22.415  
p38=-111.563;22.332  
p39=-112.202;22.312  
p40=-112.855;22.356  
p41=-113.524;22.465  
p42=-114.026;22.595  
p43=-114.209;22.642  
p44=-114.913;22.888  
p45=-115.642;23.220  
p46=-115.711;23.257  
p47=-116.402;23.649  
p48=-116.797;23.911  
p49=-117.202;24.203  
p50=-117.652;24.566  
p51=-118.060;24.933  
p52=-118.361;25.222  
p53=-118.960;25.881  
p54=-119.018;25.954  
p55=-119.478;26.544  
p56=-119.919;27.211  
p57=-120.260;27.822  
p58=-120.294;27.882  
p59=-120.613;28.557  
p60=-120.869;29.236  
p61=-121.063;29.920  
p62=-121.191;30.608

p63=-121.203;30.758  
p64=-121.252;31.301  
p65=-121.237;31.997  
p66=-121.129;32.697  
p67=-121.126;32.710  
p68=-120.922;33.401  
p69=-120.744;33.797  
p70=-120.580;34.106  
p71=-120.249;34.588  
p72=-120.059;34.811  
p73=-119.681;35.190  
p74=-119.257;35.511  
p75=-119.056;35.651  
p76=-118.389;35.998  
p77=-117.836;36.192  
p78=-117.685;36.245  
p79=-116.952;36.409  
p80=-116.194;36.488  
p81=-115.414;36.489  
p82=-114.617;36.414  
p83=-113.805;36.262  
p84=-112.980;36.029  
p85=-112.853;35.982

[C6]

gain=-15  
n\_point=97  
p1=-114.174;37.557  
p2=-113.357;37.361  
p3=-112.510;37.086  
p4=-111.654;36.724  
p5=-111.587;36.691  
p6=-110.795;36.289  
p7=-110.150;35.888  
p8=-109.929;35.745  
p9=-109.099;35.114  
p10=-109.057;35.079  
p11=-108.278;34.359  
p12=-108.179;34.256  
p13=-107.611;33.620  
p14=-107.288;33.198  
p15=-107.065;32.894  
p16=-106.616;32.181  
p17=-106.365;31.696  
p18=-106.252;31.478  
p19=-105.955;30.785  
p20=-105.731;30.101  
p21=-105.570;29.426  
p22=-105.468;28.759  
p23=-105.420;28.100  
p24=-105.428;27.447  
p25=-105.492;26.802  
p26=-105.619;26.164  
p27=-105.654;26.042  
p28=-105.798;25.531  
p29=-106.050;24.905  
p30=-106.146;24.717

p31=-106.378;24.285  
p32=-106.681;23.836  
p33=-106.804;23.671  
p34=-107.237;23.177  
p35=-107.351;23.064  
p36=-107.806;22.662  
p37=-108.080;22.465  
p38=-108.386;22.256  
p39=-108.975;21.940  
p40=-109.132;21.875  
p41=-109.573;21.691  
p42=-110.179;21.508  
p43=-110.795;21.388  
p44=-111.420;21.322  
p45=-111.567;21.319  
p46=-112.055;21.306  
p47=-112.654;21.343  
p48=-112.701;21.345  
p49=-113.359;21.435  
p50=-114.031;21.581  
p51=-114.720;21.792  
p52=-115.282;22.015  
p53=-115.428;22.073  
p54=-116.159;22.420  
p55=-116.590;22.665  
p56=-116.918;22.858  
p57=-117.589;23.313  
p58=-117.714;23.404  
p59=-118.414;23.962  
p60=-118.561;24.092  
p61=-119.122;24.615  
p62=-119.485;24.998  
p63=-119.737;25.270  
p64=-120.277;25.930  
p65=-120.561;26.331  
p66=-120.752;26.593  
p67=-121.174;27.261  
p68=-121.539;27.933  
p69=-121.851;28.610  
p70=-122.115;29.291  
p71=-122.328;29.977  
p72=-122.489;30.668  
p73=-122.591;31.364  
p74=-122.624;32.065  
p75=-122.603;32.427  
p76=-122.589;32.769  
p77=-122.479;33.479  
p78=-122.372;33.857  
p79=-122.271;34.191  
p80=-121.971;34.858  
p81=-121.946;34.907  
p82=-121.472;35.623  
p83=-121.472;35.624  
p84=-120.904;36.231  
p85=-120.775;36.338  
p86=-120.284;36.717  
p87=-119.701;37.044



p88=-119.616;37.091  
p89=-118.917;37.386  
p90=-118.182;37.591  
p91=-117.493;37.706  
p92=-117.421;37.719  
p93=-116.641;37.785  
p94=-115.841;37.780  
p95=-115.024;37.706  
p96=-114.194;37.562  
p97=-114.174;37.557

[C7]

gain=-20  
n\_point=167  
p1=-113.068;44.152  
p2=-112.140;43.788  
p3=-111.178;43.431  
p4=-110.451;43.155  
p5=-110.227;43.045  
p6=-109.273;42.571  
p7=-108.552;42.220  
p8=-108.340;42.093  
p9=-107.406;41.515  
p10=-107.121;41.328  
p11=-106.475;40.834  
p12=-106.019;40.466  
p13=-105.552;40.040  
p14=-105.135;39.629  
p15=-104.634;39.095  
p16=-104.393;38.811  
p17=-103.731;38.019  
p18=-103.726;38.011  
p19=-103.201;37.228  
p20=-102.840;36.737  
p21=-102.667;36.457  
p22=-102.209;35.700  
p23=-101.977;35.341  
p24=-101.780;34.954  
p25=-101.424;34.221  
p26=-101.128;33.648  
p27=-101.069;33.497  
p28=-100.832;32.784  
p29=-100.617;32.081  
p30=-100.416;31.385  
p31=-100.247;30.766  
p32=-100.234;30.699  
p33=-100.134;30.020  
p34=-100.057;29.349  
p35=-100.006;28.685  
p36=-99.982;28.028  
p37=-99.985;27.377  
p38=-100.015;26.742  
p39=-100.016;26.733  
p40=-100.136;26.094  
p41=-100.257;25.461  
p42=-100.378;24.834  
p43=-100.504;24.211

p44=-100.506;24.204  
p45=-100.733;23.594  
p46=-100.928;22.981  
p47=-101.037;22.672  
p48=-101.181;22.373  
p49=-101.461;21.769  
p50=-101.581;21.530  
p51=-101.806;21.170  
p52=-102.132;20.619  
p53=-102.165;20.575  
p54=-102.616;19.984  
p55=-102.689;19.893  
p56=-103.139;19.398  
p57=-103.249;19.281  
p58=-103.738;18.815  
p59=-103.812;18.750  
p60=-104.378;18.298  
p61=-104.456;18.238  
p62=-104.948;17.924  
p63=-105.324;17.665  
p64=-105.517;17.558  
p65=-106.091;17.255  
p66=-106.361;17.097  
p67=-106.666;16.972  
p68=-107.245;16.744  
p69=-107.727;16.537  
p70=-107.825;16.509  
p71=-108.413;16.369  
p72=-109.004;16.245  
p73=-109.598;16.140  
p74=-110.196;16.058  
p75=-110.800;16.009  
p76=-110.925;16.007  
p77=-111.411;16.006  
p78=-111.905;16.023  
p79=-112.028;16.029  
p80=-112.653;16.097  
p81=-113.285;16.195  
p82=-113.924;16.315  
p83=-114.571;16.455  
p84=-115.226;16.612  
p85=-115.418;16.666  
p86=-115.898;16.855  
p87=-116.580;17.114  
p88=-117.014;17.283  
p89=-117.277;17.421  
p90=-117.990;17.774  
p91=-118.238;17.899  
p92=-118.725;18.195  
p93=-119.300;18.516  
p94=-119.476;18.632  
p95=-120.248;19.113  
p96=-120.286;19.138  
p97=-121.052;19.672  
p98=-121.178;19.762  
p99=-121.885;20.281  
p100=-122.026;20.391

p101=-122.757;20.965  
p102=-122.825;21.024  
p103=-123.532;21.660  
p104=-123.695;21.802  
p105=-124.170;22.299  
p106=-124.727;22.852  
p107=-124.806;22.943  
p108=-125.321;23.588  
p109=-125.880;24.242  
p110=-125.937;24.310  
p111=-126.340;24.897  
p112=-126.794;25.557  
p113=-127.264;26.225  
p114=-127.561;26.647  
p115=-127.712;26.898  
p116=-128.093;27.575  
p117=-128.459;28.257  
p118=-128.808;28.946  
p119=-129.140;29.641  
p120=-129.455;30.342  
p121=-129.757;31.051  
p122=-130.047;31.767  
p123=-130.326;32.490  
p124=-130.480;32.924  
p125=-130.555;33.219  
p126=-130.719;33.954  
p127=-130.886;34.697  
p128=-131.050;35.451  
p129=-131.056;35.493  
p130=-131.049;36.203  
p131=-131.105;36.969  
p132=-131.108;37.080  
p133=-131.004;37.736  
p134=-130.974;38.343  
p135=-130.925;38.515  
p136=-130.771;39.301  
p137=-130.741;39.443  
p138=-130.516;40.093  
p139=-130.414;40.398  
p140=-130.198;40.892  
p141=-130.014;41.248  
p142=-129.760;41.697  
p143=-129.535;41.988  
p144=-129.138;42.503  
p145=-128.989;42.638  
p146=-128.359;43.173  
p147=-128.212;43.302  
p148=-127.654;43.608  
p149=-126.945;44.037  
p150=-126.859;44.086  
p151=-126.142;44.330  
p152=-125.326;44.602  
p153=-124.679;44.831  
p154=-124.507;44.867  
p155=-123.611;45.006  
p156=-122.706;45.119  
p157=-121.791;45.207

p158=-120.867;45.263  
p159=-119.930;45.282  
p160=-118.978;45.252  
p161=-118.010;45.169  
p162=-117.032;45.036  
p163=-116.050;44.862  
p164=-115.070;44.655  
p165=-114.096;44.424  
p166=-113.132;44.172  
p167=-113.068;44.152

[C8]

gain=-20  
n\_point=145  
p1=-116.228;42.544  
p2=-115.944;42.511  
p3=-115.034;42.370  
p4=-114.119;42.182  
p5=-113.193;41.924  
p6=-112.240;41.531  
p7=-112.190;41.506  
p8=-111.331;41.216  
p9=-110.400;40.765  
p10=-110.119;40.593  
p11=-109.483;40.286  
p12=-108.640;39.726  
p13=-108.557;39.676  
p14=-107.655;39.065  
p15=-107.430;38.888  
p16=-106.757;38.355  
p17=-106.431;38.073  
p18=-105.865;37.528  
p19=-105.602;37.278  
p20=-104.977;36.541  
p21=-104.938;36.501  
p22=-104.305;35.737  
p23=-104.102;35.414  
p24=-103.770;34.987  
p25=-103.351;34.250  
p26=-103.228;33.990  
p27=-102.922;33.523  
p28=-102.585;32.808  
p29=-102.353;32.139  
p30=-102.332;32.102  
p31=-102.012;31.404  
p32=-101.809;30.716  
p33=-101.670;30.037  
p34=-101.576;29.365  
p35=-101.516;28.701  
p36=-101.488;28.043  
p37=-101.489;27.392  
p38=-101.527;26.747  
p39=-101.617;26.108  
p40=-101.808;25.476  
p41=-101.818;25.454  
p42=-101.931;24.848  
p43=-102.140;24.226

p44=-102.333;23.879  
p45=-102.425;23.610  
p46=-102.727;22.998  
p47=-102.872;22.790  
p48=-103.075;22.391  
p49=-103.421;21.914  
p50=-103.499;21.790  
p51=-103.964;21.192  
p52=-103.976;21.178  
p53=-104.447;20.599  
p54=-104.532;20.504  
p55=-105.025;20.011  
p56=-105.093;19.940  
p57=-105.659;19.464  
p58=-105.714;19.427  
p59=-106.227;19.027  
p60=-106.583;18.849  
p61=-106.804;18.701  
p62=-107.384;18.430  
p63=-107.895;18.281  
p64=-107.973;18.244  
p65=-108.560;18.031  
p66=-109.156;17.902  
p67=-109.759;17.818  
p68=-110.366;17.766  
p69=-110.866;17.744  
p70=-110.978;17.732  
p71=-111.595;17.713  
p72=-112.220;17.743  
p73=-112.456;17.773  
p74=-112.852;17.802  
p75=-113.490;17.876  
p76=-114.138;17.985  
p77=-114.798;18.146  
p78=-115.477;18.397  
p79=-115.537;18.424  
p80=-116.157;18.609  
p81=-116.859;18.907  
p82=-117.128;19.054  
p83=-117.577;19.244  
p84=-118.309;19.680  
p85=-118.324;19.688  
p86=-119.084;20.126  
p87=-119.339;20.309  
p88=-119.883;20.687  
p89=-120.206;20.940  
p90=-120.727;21.371  
p91=-120.966;21.573  
p92=-121.625;22.208  
p93=-121.634;22.217  
p94=-122.316;22.850  
p95=-122.602;23.175  
p96=-122.932;23.496  
p97=-123.485;24.145  
p98=-123.698;24.434  
p99=-124.038;24.800  
p100=-124.537;25.459

p101=-124.950;26.120  
p102=-125.066;26.322  
p103=-125.415;26.791  
p104=-125.837;27.466  
p105=-126.205;28.145  
p106=-126.541;28.829  
p107=-126.851;29.519  
p108=-127.137;30.216  
p109=-127.392;30.918  
p110=-127.605;31.626  
p111=-127.751;32.338  
p112=-127.785;32.863  
p113=-127.834;33.055  
p114=-127.983;33.785  
p115=-128.045;34.518  
p116=-128.005;34.991  
p117=-128.036;35.256  
p118=-128.067;36.007  
p119=-127.965;36.550  
p120=-127.960;36.759  
p121=-127.841;37.521  
p122=-127.750;37.766  
p123=-127.607;38.286  
p124=-127.384;38.716  
p125=-127.197;39.052  
p126=-126.902;39.471  
p127=-126.585;39.816  
p128=-126.338;40.091  
p129=-125.686;40.566  
p130=-125.675;40.573  
p131=-125.058;41.085  
p132=-124.534;41.329  
p133=-124.348;41.468  
p134=-123.634;41.843  
p135=-122.852;42.066  
p136=-122.839;42.074  
p137=-122.098;42.401  
p138=-121.278;42.580  
p139=-120.422;42.678  
p140=-119.543;42.721  
p141=-119.486;42.721  
p142=-118.681;42.781  
p143=-117.787;42.760  
p144=-116.872;42.664  
p145=-116.228;42.544

[C9]

gain=-20  
n\_point=105  
p1=-114.108;38.334  
p2=-113.616;38.224  
p3=-112.760;37.971  
p4=-111.896;37.639  
p5=-111.499;37.453  
p6=-111.028;37.235  
p7=-110.156;36.741  
p8=-109.996;36.637

p9=-109.282;36.152  
p10=-108.897;35.850  
p11=-108.404;35.433  
p12=-108.030;35.084  
p13=-107.520;34.550  
p14=-107.325;34.334  
p15=-106.742;33.599  
p16=-106.628;33.433  
p17=-106.247;32.876  
p18=-105.846;32.164  
p19=-105.709;31.873  
p20=-105.509;31.463  
p21=-105.236;30.771  
p22=-105.030;30.088  
p23=-104.883;29.414  
p24=-104.788;28.747  
p25=-104.743;28.088  
p26=-104.748;27.436  
p27=-104.805;26.791  
p28=-104.918;26.152  
p29=-104.998;25.856  
p30=-105.082;25.519  
p31=-105.302;24.893  
p32=-105.493;24.487  
p33=-105.594;24.272  
p34=-105.960;23.657  
p35=-106.026;23.563  
p36=-106.416;23.049  
p37=-106.579;22.862  
p38=-106.995;22.446  
p39=-107.144;22.310  
p40=-107.719;21.870  
p41=-107.750;21.851  
p42=-108.301;21.507  
p43=-108.818;21.265  
p44=-108.892;21.229  
p45=-109.490;21.001  
p46=-110.096;20.839  
p47=-110.710;20.732  
p48=-111.004;20.705  
p49=-111.332;20.670  
p50=-111.963;20.654  
p51=-112.605;20.692  
p52=-113.013;20.748  
p53=-113.258;20.778  
p54=-113.923;20.910  
p55=-114.603;21.099  
p56=-115.302;21.356  
p57=-115.425;21.411  
p58=-116.018;21.665  
p59=-116.751;22.056  
p60=-116.760;22.061  
p61=-117.530;22.529  
p62=-117.778;22.700  
p63=-118.338;23.110  
p64=-118.636;23.346  
p65=-119.199;23.835

p66=-119.375;23.995  
p67=-120.023;24.647  
p68=-120.142;24.781  
p69=-120.606;25.302  
p70=-121.112;25.962  
p71=-121.242;26.152  
p72=-121.576;26.626  
p73=-121.988;27.294  
p74=-122.347;27.967  
p75=-122.660;28.645  
p76=-122.929;29.328  
p77=-123.155;30.016  
p78=-123.334;30.709  
p79=-123.460;31.407  
p80=-123.524;32.110  
p81=-123.518;32.698  
p82=-123.520;32.817  
p83=-123.466;33.530  
p84=-123.327;34.184  
p85=-123.314;34.246  
p86=-123.085;34.967  
p87=-122.960;35.242  
p88=-122.731;35.691  
p89=-122.490;36.065  
p90=-122.218;36.416  
p91=-121.945;36.723  
p92=-121.478;37.138  
p93=-121.341;37.252  
p94=-120.691;37.682  
p95=-120.346;37.851  
p96=-120.002;38.023  
p97=-119.279;38.285  
p98=-118.524;38.464  
p99=-118.135;38.520  
p100=-117.748;38.583  
p101=-116.953;38.641  
p102=-116.139;38.632  
p103=-115.309;38.558  
p104=-114.466;38.419  
p105=-114.108;38.334