

```
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ntc_id=9000021
adm=USA
sat_name=USABSS-21
long_nom=-101.0000
n_diag=1
[COHeader]
beam_id=CB18
emi_rcp=E
polar_disc=X
reason=B
n_bore=1
n_cont=6
[B1]
gain=0.00
p=-97.2400;31.4890
[C1]
gain=-30.00
n_point=164
P1=-90.5000 ;35.9500
P2=-90.3860 ;35.5000
P3=-90.2790 ;35.0000
P4=-90.1950 ;34.5000
P5=-90.1620 ;34.0000
P6=-90.1890 ;33.5000
P7=-90.2430 ;33.0000
P8=-90.3290 ;32.5000
P9=-90.4280 ;32.0000
P10=-90.5000 ;31.6600
P11=-90.5620 ;31.5000
P12=-90.7860 ;31.0000
P13=-90.9760 ;30.5000
P14=-91.0000 ;30.4420
P15=-91.2950 ;30.0000
P16=-91.5000 ;29.6190
P17=-91.5980 ;29.5000
P18=-91.9720 ;29.0000
P19=-92.0000 ;28.9610
P20=-92.4880 ;28.5000
P21=-92.5000 ;28.4870
P22=-93.0000 ;28.1580
P23=-93.3230 ;28.0000
P24=-93.5000 ;27.8770
P25=-93.6670 ;28.0000
P26=-93.5000 ;28.2020
P27=-93.3640 ;28.5000
P28=-93.1680 ;29.0000
P29=-93.2700 ;29.5000
P30=-93.5000 ;29.7360
P31=-93.6400 ;29.5000
P32=-94.0000 ;29.1550
P33=-94.1170 ;29.0000
P34=-94.3570 ;28.5000
P35=-94.5000 ;28.0650
P36=-94.5340 ;28.0000
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P37=-94.5000 ;27.9200
P38=-94.0000 ;27.7450
P39=-93.8070 ;27.5000
P40=-94.0000 ;27.1460
P41=-94.0490 ;27.0000
P42=-94.3880 ;26.5000
P43=-94.5000 ;26.3430
P44=-94.7590 ;26.0000
P45=-95.0000 ;25.7120
P46=-95.1920 ;25.5000
P47=-95.5000 ;25.2030
P48=-95.7260 ;25.0000
P49=-96.0000 ;24.7880
P50=-96.4410 ;24.5000
P51=-96.5000 ;24.4610
P52=-97.0000 ;24.2740
P53=-97.5000 ;24.1500
P54=-98.0000 ;24.0970
P55=-98.5000 ;24.1050
P56=-99.0000 ;24.1620
P57=-99.5000 ;24.2350
P58=-100.0000;24.3150
P59=-100.5000;24.4170
P60=-100.7610;24.5000
P61=-101.0000;24.6580
P62=-101.3820;25.0000
P63=-101.5000;25.4240
P64=-101.5200;25.5000
P65=-101.5000;25.5300
P66=-101.0000;25.9840
P67=-100.9780;26.0000
P68=-100.5000;26.0830
P69=-100.0000;26.3370
P70=-99.8010 ;26.5000
P71=-100.0000;26.6350
P72=-100.4380;27.0000
P73=-100.5000;27.0320
P74=-101.0000;27.2750
P75=-101.5000;27.3910
P76=-101.9470;27.5000
P77=-102.0000;27.5250
P78=-102.5000;27.7010
P79=-103.0000;27.9860
P80=-103.0180;28.0000
P81=-103.5000;28.4700
P82=-103.5260;28.5000
P83=-103.8710;29.0000
P84=-104.0000;29.2740
P85=-104.1010;29.5000
P86=-104.2430;30.0000
P87=-104.3030;30.5000
P88=-104.2970;31.0000
P89=-104.2290;31.5000
P90=-104.0800;32.0000
P91=-104.0000;32.1790
P92=-103.8600;32.5000
P93=-103.5690;33.0000

P94=-103.5000;33.0910
P95=-103.2050;33.5000
P96=-103.0000;33.7280
P97=-102.7640;34.0000
P98=-102.5000;34.2710
P99=-102.2600;34.5000
P100=-102.0000;34.7500
P101=-101.6550;35.0000
P102=-101.5000;35.1440
P103=-101.0000;35.4000
P104=-100.5000;35.3240
P105=-100.0000;35.3150
P106=-99.6060 ;35.5000
P107=-99.5000 ;35.5300
P108=-99.0000 ;35.8230
P109=-98.7840 ;36.0000
P110=-98.6590 ;36.5000
P111=-99.0000 ;36.6880
P112=-99.5000 ;36.5870
P113=-99.7630 ;36.5000
P114=-100.0000;36.4390
P115=-100.4630;36.5000
P116=-100.2850;37.0000
P117=-100.0060;37.5000
P118=-100.0000;37.5070
P119=-99.5980 ;38.0000
P120=-99.5000 ;38.0910
P121=-99.0800 ;38.5000
P122=-99.0000 ;38.5680
P123=-98.5010 ;39.0000
P124=-98.5000 ;39.0010
P125=-98.0000 ;39.3690
P126=-97.8050 ;39.5000
P127=-97.5000 ;39.7240
P128=-97.0000 ;40.0000
P129=-96.5000 ;40.2680
P130=-96.0000 ;40.4180
P131=-95.5000 ;40.4780
P132=-95.0000 ;40.4400
P133=-94.5000 ;40.2960
P134=-94.0090 ;40.0000
P135=-94.0000 ;39.9950
P136=-93.5000 ;39.5750
P137=-93.4320 ;39.5000
P138=-93.0220 ;39.0000
P139=-93.0000 ;38.9610
P140=-92.7290 ;38.5000
P141=-92.5520 ;38.0000
P142=-92.6010 ;37.5000
P143=-93.0000 ;37.2330
P144=-93.1080 ;37.0000
P145=-93.2440 ;36.5000
P146=-93.1820 ;36.0000
P147=-93.0930 ;35.5000
P148=-93.0000 ;35.2970
P149=-92.7660 ;35.0000
P150=-92.5690 ;34.5000

P151=-92.5000 ;34.3050
P152=-92.4010 ;34.5000
P153=-92.2220 ;35.0000
P154=-92.0720 ;35.5000
P155=-92.0370 ;36.0000
P156=-92.0490 ;36.5000
P157=-92.0160 ;37.0000
P158=-92.0000 ;37.0370
P159=-91.5000 ;37.1040
P160=-91.3730 ;37.0000
P161=-91.0000 ;36.7420
P162=-90.8570 ;36.5000
P163=-90.5310 ;36.0000
P164=-90.5000 ;35.9500

[C2]

gain=-20.00

n_point=116

P1=-93.5000 ;35.1770
P2=-93.4450 ;35.0000
P3=-93.3765 ;34.7500
P4=-93.3080 ;34.5000
P5=-93.2550 ;34.2500
P6=-93.2020 ;34.0000
P7=-93.1680 ;33.7500
P8=-93.1340 ;33.5000
P9=-93.1220 ;33.2500
P10=-93.1100 ;33.0000
P11=-93.1215 ;32.7500
P12=-93.1330 ;32.5000
P13=-93.1640 ;32.2500
P14=-93.1950 ;32.0000
P15=-93.2470 ;31.7500
P16=-93.2990 ;31.5000
P17=-93.3890 ;31.2500
P18=-93.4790 ;31.0000
P19=-93.5000 ;30.9640
P20=-93.6040 ;30.7320
P21=-93.7080 ;30.5000
P22=-93.8265 ;30.2500
P23=-93.9450 ;30.0000
P24=-94.0000 ;29.9080
P25=-94.1345 ;29.7040
P26=-94.2690 ;29.5000
P27=-94.5000 ;29.1290
P28=-94.5990 ;29.0000
P29=-94.7945 ;28.7500
P30=-94.9900 ;28.5000
P31=-95.0000 ;28.4850
P32=-95.2395 ;28.2425
P33=-95.4790 ;28.0000
P34=-95.5000 ;27.9700
P35=-95.7500 ;27.7630
P36=-96.0000 ;27.5560
P37=-96.1020 ;27.5000
P38=-96.3010 ;27.3525
P39=-96.5000 ;27.2050
P40=-96.7500 ;27.1290

P41=-97.0000 ;27.0530
P42=-97.3880 ;27.0000
P43=-97.5000 ;26.9620
P44=-97.7500 ;26.9570
P45=-98.0000 ;26.9520
P46=-98.2710 ;27.0000
P47=-98.5000 ;27.0190
P48=-98.7500 ;27.0665
P49=-99.0000 ;27.1140
P50=-99.2500 ;27.1870
P51=-99.5000 ;27.2600
P52=-99.7500 ;27.3460
P53=-100.0000;27.4320
P54=-100.1720;27.5000
P55=-100.5000;27.6850
P56=-100.7500;27.8320
P57=-101.0000;27.9790
P58=-101.0360;28.0000
P59=-101.2680;28.2190
P60=-101.5000;28.4380
P61=-101.5670;28.5000
P62=-101.7480;28.7500
P63=-101.9290;29.0000
P64=-102.0000;29.1580
P65=-102.1610;29.5000
P66=-102.2325;29.7500
P67=-102.3040;30.0000
P68=-102.3320;30.2500
P69=-102.3600;30.5000
P70=-102.3535;30.7500
P71=-102.3470;31.0000
P72=-102.3075;31.2500
P73=-102.2680;31.5000
P74=-102.1885;31.7500
P75=-102.1090;32.0000
P76=-102.0000;32.2360
P77=-101.8870;32.5000
P78=-101.7390;32.7500
P79=-101.5910;33.0000
P80=-101.5000;33.1140
P81=-101.3510;33.3070
P82=-101.2020;33.5000
P83=-101.0000;33.6980
P84=-100.7120;34.0000
P85=-100.5000;34.1690
P86=-100.3090;34.3345
P87=-100.1180;34.5000
P88=-100.0000;34.5740
P89=-99.7500 ;34.7555
P90=-99.5000 ;34.9370
P91=-99.4190 ;35.0000
P92=-99.2095 ;35.1340
P93=-99.0000 ;35.2680
P94=-98.6870 ;35.5000
P95=-98.5000 ;35.6290
P96=-98.2500 ;35.8030
P97=-98.0000 ;35.9770

P98=-97.9610 ;36.0000
P99=-97.7305 ;36.1545
P100=-97.5000 ;36.3090
P101=-97.1450 ;36.5000
P102=-97.0000 ;36.6230
P103=-96.7500 ;36.7400
P104=-96.5000 ;36.8570
P105=-96.0000 ;36.9730
P106=-95.5000 ;36.9890
P107=-95.0000 ;36.8650
P108=-94.7500 ;36.7160
P109=-94.5000 ;36.5670
P110=-94.4400 ;36.5000
P111=-94.2200 ;36.2770
P112=-94.0000 ;36.0540
P113=-93.9690 ;36.0000
P114=-93.8230 ;35.7500
P115=-93.6770 ;35.5000
P116=-93.5000 ;35.1770

[C3]

gain=-10.00

n_point=94

P1=-94.5000 ;34.4900
P2=-94.3915 ;34.2450
P3=-94.2830 ;34.0000
P4=-94.2080 ;33.7500
P5=-94.1330 ;33.5000
P6=-94.0980 ;33.2500
P7=-94.0630 ;33.0000
P8=-94.0665 ;32.7500
P9=-94.0700 ;32.5000
P10=-94.1010 ;32.2500
P11=-94.1320 ;32.0000
P12=-94.1865 ;31.7500
P13=-94.2410 ;31.5000
P14=-94.3200 ;31.2500
P15=-94.3990 ;31.0000
P16=-94.5000 ;30.7390
P17=-94.6160 ;30.5000
P18=-94.7570 ;30.2500
P19=-94.8980 ;30.0000
P20=-95.0000 ;29.8380
P21=-95.1355 ;29.6690
P22=-95.2710 ;29.5000
P23=-95.3855 ;29.3710
P24=-95.5000 ;29.2420
P25=-95.6265 ;29.1210
P26=-95.7530 ;29.0000
P27=-96.0000 ;28.7990
P28=-96.2300 ;28.6495
P29=-96.4600 ;28.5000
P30=-96.5000 ;28.4770
P31=-96.7500 ;28.3735
P32=-97.0000 ;28.2700
P33=-97.2500 ;28.2035
P34=-97.5000 ;28.1370
P35=-97.7500 ;28.1080

P36=-98.0000 ;28.0790
P37=-98.2500 ;28.0960
P38=-98.5000 ;28.1130
P39=-98.7500 ;28.1715
P40=-99.0000 ;28.2300
P41=-99.2500 ;28.3370
P42=-99.5000 ;28.4440
P43=-99.5970 ;28.5000
P44=-99.7985 ;28.6580
P45=-100.0000;28.8160
P46=-100.1810;29.0000
P47=-100.3405;29.2435
P48=-100.5000;29.4870
P49=-100.5070;29.5000
P50=-100.5965;29.7500
P51=-100.6860;30.0000
P52=-100.7255;30.2500
P53=-100.7650;30.5000
P54=-100.7635;30.7500
P55=-100.7620;31.0000
P56=-100.7240;31.2500
P57=-100.6860;31.5000
P58=-100.6100;31.7500
P59=-100.5340;32.0000
P60=-100.5000;32.0780
P61=-100.4015;32.2890
P62=-100.3030;32.5000
P63=-100.1540;32.7500
P64=-100.0050;33.0000
P65=-100.0000;33.0070
P66=-99.7995 ;33.2535
P67=-99.5990 ;33.5000
P68=-99.5000 ;33.6060
P69=-99.3010 ;33.8030
P70=-99.1020 ;34.0000
P71=-99.0000 ;34.0870
P72=-98.7500 ;34.2905
P73=-98.5000 ;34.4940
P74=-98.4910 ;34.5000
P75=-98.2455 ;34.6450
P76=-98.0000 ;34.7900
P77=-97.8055 ;34.8950
P78=-97.6110 ;35.0000
P79=-97.5000 ;35.0540
P80=-97.2500 ;35.1455
P81=-97.0000 ;35.2370
P82=-96.7500 ;35.2925
P83=-96.5000 ;35.3480
P84=-96.2500 ;35.3610
P85=-96.0000 ;35.3740
P86=-95.7500 ;35.3225
P87=-95.5000 ;35.2710
P88=-95.2500 ;35.1475
P89=-95.0000 ;35.0240
P90=-94.9710 ;35.0000
P91=-94.8160 ;34.8333
P92=-94.6610 ;34.6667

P93=-94.5060 ;34.5000
P94=-94.5000 ;34.4900
[C4]
gain=-6.00
n_point=95
P1=-95.0000 ;33.7420
P2=-94.9445 ;33.6210
P3=-94.8890 ;33.5000
P4=-94.8423 ;33.3333
P5=-94.7957 ;33.1667
P6=-94.7490 ;33.0000
P7=-94.7347 ;32.8333
P8=-94.7203 ;32.6667
P9=-94.7060 ;32.5000
P10=-94.7163 ;32.3333
P11=-94.7267 ;32.1667
P12=-94.7370 ;32.0000
P13=-94.7693 ;31.8333
P14=-94.8017 ;31.6667
P15=-94.8340 ;31.5000
P16=-94.8870 ;31.3333
P17=-94.9400 ;31.1667
P18=-94.9930 ;31.0000
P19=-95.0000 ;30.9830
P20=-95.0847 ;30.8220
P21=-95.1693 ;30.6610
P22=-95.2540 ;30.5000
P23=-95.3770 ;30.3050
P24=-95.5000 ;30.1100
P25=-95.5860 ;30.0000
P26=-95.7240 ;29.8490
P27=-95.8620 ;29.6980
P28=-96.0000 ;29.5470
P29=-96.0570 ;29.5000
P30=-96.2047 ;29.3960
P31=-96.3523 ;29.2920
P32=-96.5000 ;29.1880
P33=-96.6710 ;29.0940
P34=-96.8420 ;29.0000
P35=-97.0000 ;28.9300
P36=-97.2500 ;28.8690
P37=-97.5000 ;28.8080
P38=-97.7500 ;28.7885
P39=-98.0000 ;28.7690
P40=-98.2500 ;28.8060
P41=-98.5000 ;28.8430
P42=-98.7270 ;28.9215
P43=-98.9540 ;29.0000
P44=-99.0000 ;29.0240
P45=-99.1667 ;29.1683
P46=-99.3333 ;29.3127
P47=-99.5000 ;29.4570
P48=-99.5370 ;29.5000
P49=-99.6327 ;29.6667
P50=-99.7283 ;29.8333
P51=-99.8240 ;30.0000
P52=-99.8707 ;30.1667

P53=-99.9173 ;30.3333
P54=-99.9640 ;30.5000
P55=-99.9717 ;30.6667
P56=-99.9793 ;30.8333
P57=-99.9870 ;31.0000
P58=-99.9627 ;31.1667
P59=-99.9383 ;31.3333
P60=-99.9140 ;31.5000
P61=-99.8580 ;31.6667
P62=-99.8020 ;31.8333
P63=-99.7460 ;32.0000
P64=-99.6683 ;32.1667
P65=-99.5907 ;32.3333
P66=-99.5130 ;32.5000
P67=-99.5000 ;32.5210
P68=-99.3867 ;32.6807
P69=-99.2733 ;32.8403
P70=-99.1600 ;33.0000
P71=-99.0000 ;33.1850
P72=-98.8460 ;33.3425
P73=-98.6920 ;33.5000
P74=-98.5000 ;33.6710
P75=-98.3537 ;33.7807
P76=-98.2073 ;33.8903
P77=-98.0610 ;34.0000
P78=-98.0000 ;34.0400
P79=-97.8333 ;34.1270
P80=-97.6667 ;34.2140
P81=-97.5000 ;34.3010
P82=-97.2500 ;34.3935
P83=-97.0000 ;34.4860
P84=-96.9100 ;34.5000
P85=-96.7050 ;34.5275
P86=-96.5000 ;34.5550
P87=-96.2500 ;34.5365
P88=-96.0000 ;34.5180
P89=-95.9490 ;34.5000
P90=-95.7245 ;34.3900
P91=-95.5000 ;34.2800
P92=-95.3455 ;34.1400
P93=-95.1910 ;34.0000
P94=-95.0955 ;33.8710
P95=-95.0000 ;33.7420
[C5]
gain=-4.00
n_point=85
P1=-95.5000 ;33.5110
P2=-95.4910 ;33.5000
P3=-95.4093 ;33.3333
P4=-95.3277 ;33.1667
P5=-95.2460 ;33.0000
P6=-95.2133 ;32.8333
P7=-95.1807 ;32.6667
P8=-95.1480 ;32.5000
P9=-95.1503 ;32.3333
P10=-95.1527 ;32.1667
P11=-95.1550 ;32.0000

P12=-95.1860 ;31.8333
P13=-95.2170 ;31.6667
P14=-95.2480 ;31.5000
P15=-95.3063 ;31.3333
P16=-95.3647 ;31.1667
P17=-95.4230 ;31.0000
P18=-95.5000 ;30.8400
P19=-95.6035 ;30.6700
P20=-95.7070 ;30.5000
P21=-95.8047 ;30.3690
P22=-95.9023 ;30.2380
P23=-96.0000 ;30.1070
P24=-96.1060 ;30.0000
P25=-96.2373 ;29.8940
P26=-96.3687 ;29.7880
P27=-96.5000 ;29.6820
P28=-96.6490 ;29.5910
P29=-96.7980 ;29.5000
P30=-96.8990 ;29.4485
P31=-97.0000 ;29.3970
P32=-97.1667 ;29.3540
P33=-97.3333 ;29.3110
P34=-97.5000 ;29.2680
P35=-97.6667 ;29.2610
P36=-97.8333 ;29.2540
P37=-98.0000 ;29.2470
P38=-98.1667 ;29.2907
P39=-98.3333 ;29.3343
P40=-98.5000 ;29.3780
P41=-98.6145 ;29.4390
P42=-98.7290 ;29.5000
P43=-98.8645 ;29.6075
P44=-99.0000 ;29.7150
P45=-99.1115 ;29.8575
P46=-99.2230 ;30.0000
P47=-99.2913 ;30.1667
P48=-99.3597 ;30.3333
P49=-99.4280 ;30.5000
P50=-99.4470 ;30.6667
P51=-99.4660 ;30.8333
P52=-99.4850 ;31.0000
P53=-99.4643 ;31.1667
P54=-99.4437 ;31.3333
P55=-99.4230 ;31.5000
P56=-99.3643 ;31.6667
P57=-99.3057 ;31.8333
P58=-99.2470 ;32.0000
P59=-99.1647 ;32.1647
P60=-99.0823 ;32.3293
P61=-99.0000 ;32.4940
P62=-98.9970 ;32.5000
P63=-98.8640 ;32.6667
P64=-98.7310 ;32.8333
P65=-98.5980 ;33.0000
P66=-98.5000 ;33.1000
P67=-98.3407 ;33.2333
P68=-98.1813 ;33.3667

P69=-98.0220 ;33.5000
P70=-98.0000 ;33.5160
P71=-97.8333 ;33.6087
P72=-97.6667 ;33.7013
P73=-97.5000 ;33.7940
P74=-97.3333 ;33.8523
P75=-97.1667 ;33.9107
P76=-97.0000 ;33.9690
P77=-96.8435 ;33.9845
P78=-96.6870 ;34.0000
P79=-96.5000 ;34.0160
P80=-96.4130 ;34.0000
P81=-96.2065 ;33.9465
P82=-96.0000 ;33.8930
P83=-95.8333 ;33.7657
P84=-95.6667 ;33.6383
P85=-95.5000 ;33.5110
[C6]
gain=-2.00
n_point=81
P1=-96.0000 ;32.9240
P2=-95.9518 ;32.8180
P3=-95.9035 ;32.7120
P4=-95.8552 ;32.6060
P5=-95.8070 ;32.5000
P6=-95.7920 ;32.3750
P7=-95.7770 ;32.2500
P8=-95.7620 ;32.1250
P9=-95.7470 ;32.0000
P10=-95.7650 ;31.8750
P11=-95.7830 ;31.7500
P12=-95.8010 ;31.6250
P13=-95.8190 ;31.5000
P14=-95.8643 ;31.3790
P15=-95.9095 ;31.2580
P16=-95.9548 ;31.1370
P17=-96.0000 ;31.0160
P18=-96.0080 ;31.0000
P19=-96.0834 ;30.9000
P20=-96.1588 ;30.8000
P21=-96.2342 ;30.7000
P22=-96.3096 ;30.6000
P23=-96.3850 ;30.5000
P24=-96.4425 ;30.4420
P25=-96.5000 ;30.3840
P26=-96.6250 ;30.2950
P27=-96.7500 ;30.2060
P28=-96.8750 ;30.1170
P29=-97.0000 ;30.0280
P30=-97.0880 ;30.0000
P31=-97.2253 ;29.9677
P32=-97.3627 ;29.9353
P33=-97.5000 ;29.9030
P34=-97.6250 ;29.9097
P35=-97.7500 ;29.9165
P36=-97.8750 ;29.9233
P37=-98.0000 ;29.9300

P38=-98.0795 ;29.9650
P39=-98.1590 ;30.0000
P40=-98.2727 ;30.0877
P41=-98.3863 ;30.1753
P42=-98.5000 ;30.2630
P43=-98.5830 ;30.3815
P44=-98.6660 ;30.5000
P45=-98.7000 ;30.6250
P46=-98.7340 ;30.7500
P47=-98.7680 ;30.8750
P48=-98.8020 ;31.0000
P49=-98.7940 ;31.1250
P50=-98.7860 ;31.2500
P51=-98.7780 ;31.3750
P52=-98.7700 ;31.5000
P53=-98.7258 ;31.6250
P54=-98.6815 ;31.7500
P55=-98.6372 ;31.8750
P56=-98.5930 ;32.0000
P57=-98.5465 ;32.0825
P58=-98.5000 ;32.1650
P59=-98.4183 ;32.2767
P60=-98.3367 ;32.3883
P61=-98.2550 ;32.5000
P62=-98.1700 ;32.5873
P63=-98.0850 ;32.6747
P64=-98.0000 ;32.7620
P65=-97.8960 ;32.8413
P66=-97.7920 ;32.9207
P67=-97.6880 ;33.0000
P68=-97.5940 ;33.0570
P69=-97.5000 ;33.1140
P70=-97.3750 ;33.1503
P71=-97.2500 ;33.1865
P72=-97.1250 ;33.2228
P73=-97.0000 ;33.2590
P74=-96.8333 ;33.2540
P75=-96.6667 ;33.2490
P76=-96.5000 ;33.2440
P77=-96.3923 ;33.1830
P78=-96.2845 ;33.1220
P79=-96.1768 ;33.0610
P80=-96.0690 ;33.0000
P81=-96.0000 ;32.9240