

wv1_i2g_nash_debug

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wv1_i2g_nash
eph_start_time = 3.43426
first_line_time = 15.549625
avg_line_rate = 12000
dt1 = 8.333333333333333e-05
dte = 0.02
do for point HS_Track
line = 14256
samp = 13398
h = 148.867
vec0 = 0.05372
      140.71193
      7949.165
vec_img = 0
        -107.184
        0
vSensor = 0.05372
          33.52793
          7949.165
vSensor = 6.75788239038795e-06
          0.00421775517001415
          0.99999110520827
vSat = 6.75788239038795e-06
        0.00421775517001415
        0.99999110520827
tline = 16.737625
num_intv1 = 665.16825
nintv1 = 665
frac = 0.168250000000057
idx1 = 666
idx2 = 667
idx1 = 666
idx2 = 667
intx = 520769.622710587
inty = -5379673.35162351
intz = 4235557.33130113
intvx = -1193.90762138238
intvy = -4782.39630932823
intvz = -5909.45749583574
intqi = -0.651036072643753
intqj = 0.536752701261346
intqk = 0.479195787388318
intqs = 0.241702227935688
m = -0.0354641300954528
      -0.46724536243923
      -0.883416134534346
      -0.930536120232498
      -0.306953141284473
      0.199705528211527
      -0.364478839467017
      0.829133005213655
      -0.423902860625107
after rotation into ecf

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vEcf =
-0.368400610698066
 0.827827819460446
-0.423062751095693
vNad =
-520769.622710587
 5379673.35162351
-4235557.33130113
vNad =
-0.075839495503109
 0.78343992269569
-0.616822712331838
theta =
 0.355572346972965
HH =
 495.733741513861
hh =
 0.148867
K =
 4.62899148875455e-06
dtheta =
 1.71900501427863e-06
AR angle correction (rad)
dtheta =
 1.71900501427863e-06
AR angle correction (sec)
ans =
 0.354570236188895
vNorm =
-0.514693685656182
-0.56057995093417
-0.648722227579955
vEcfCor =
-0.368399279859649
 0.827827855974221
-0.42306383853033
satPos =
 520769.622710587
-5379673.35162351
 4235557.33130113
satVel =
-1193.90762138238
-4782.39630932823
-5909.45749583574
corrected for velocity aberration
vEcfCorr =
-0.368394044988789
 0.827840994017253
-0.423042688438561
iterate for the height
k =
 532993.722112571
XG =
 324417.909467907
-4938439.29890488
 4010078.23417775
dh =
-0.000206713013341187
k =
 532993.721889391
XG =
 324417.909550125
-4938439.29908964
 4010078.23427216
dh =
-1.31129240799055e-09
k =
 532993.72188939
XG =
 324417.909550125
-4938439.29908964
 4010078.23427216
dh =
 1.48267531585589e-09
phid =
 39.2050701945004
lamd =
-86.2415033471345
computed

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wv1_i2g_nash_debug

xy_comp = 565489.932172072
4339807.85919244
control
xy = 565484.812995297
4339805.98201767
discrepancy E,N UTM-16
dx = 5.11917677533347
dy = 1.87717476580292
diary off