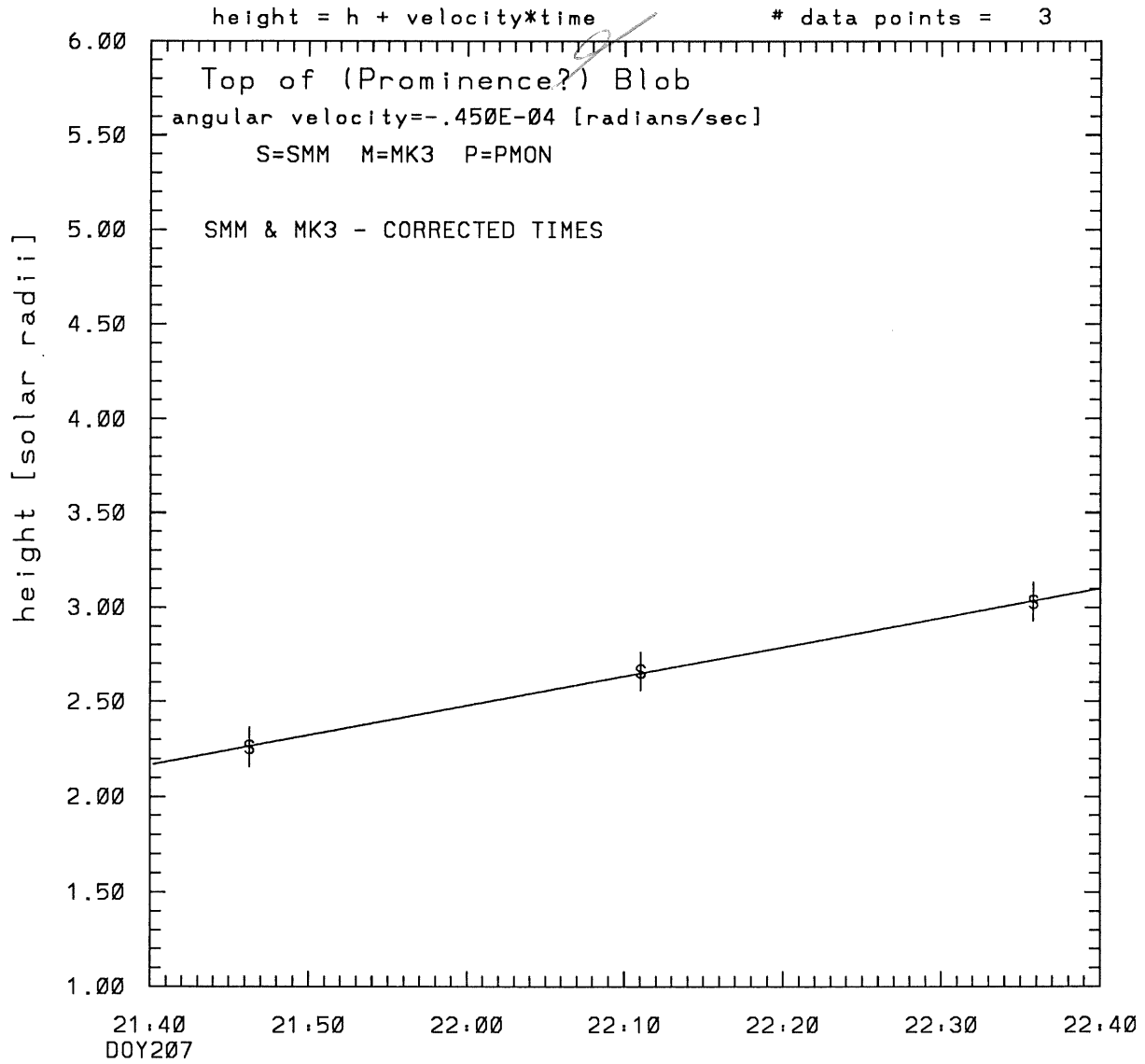
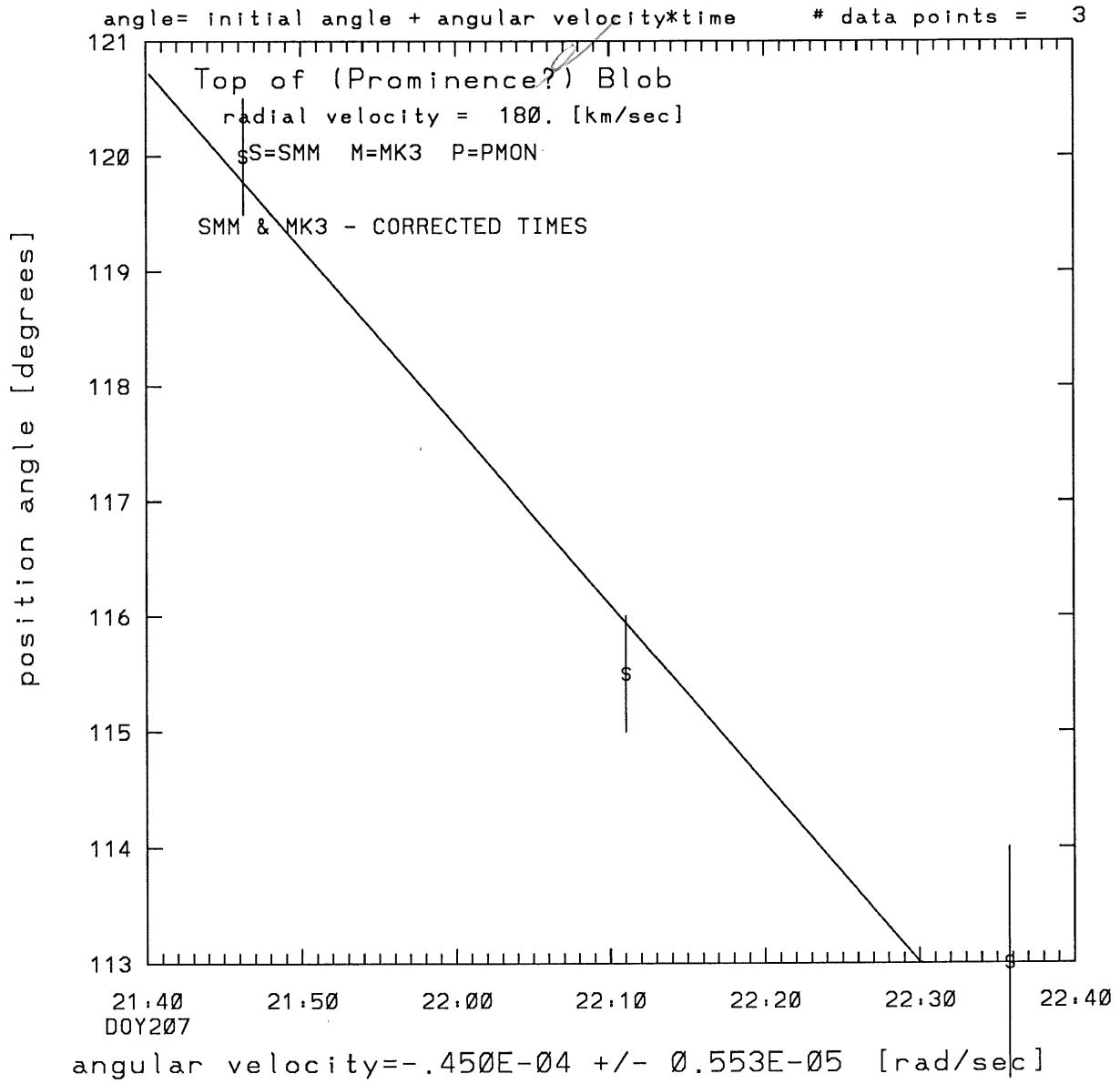


SMM C/P 1988 DOY207 116 +/- 4 degrees

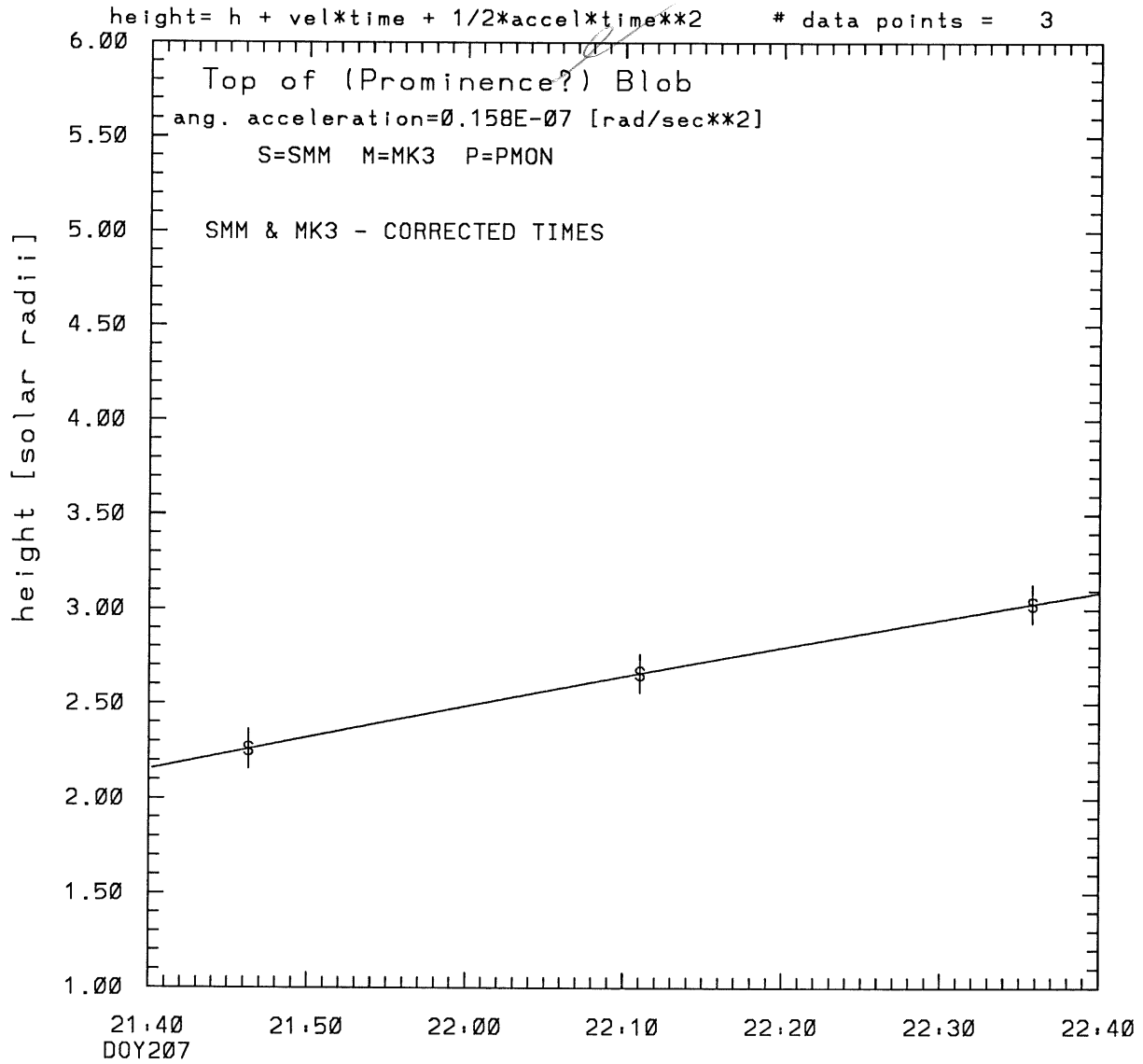


tstart=DOY207 20:25 +/- 0.7 [min.]  
radial velocity= 180. +/- 3. [km/sec]

SMM C/P 1988 DOY207 116 +/- 4 degrees



SMM C/P 1988 DOY207 116 +/- 4 degrees



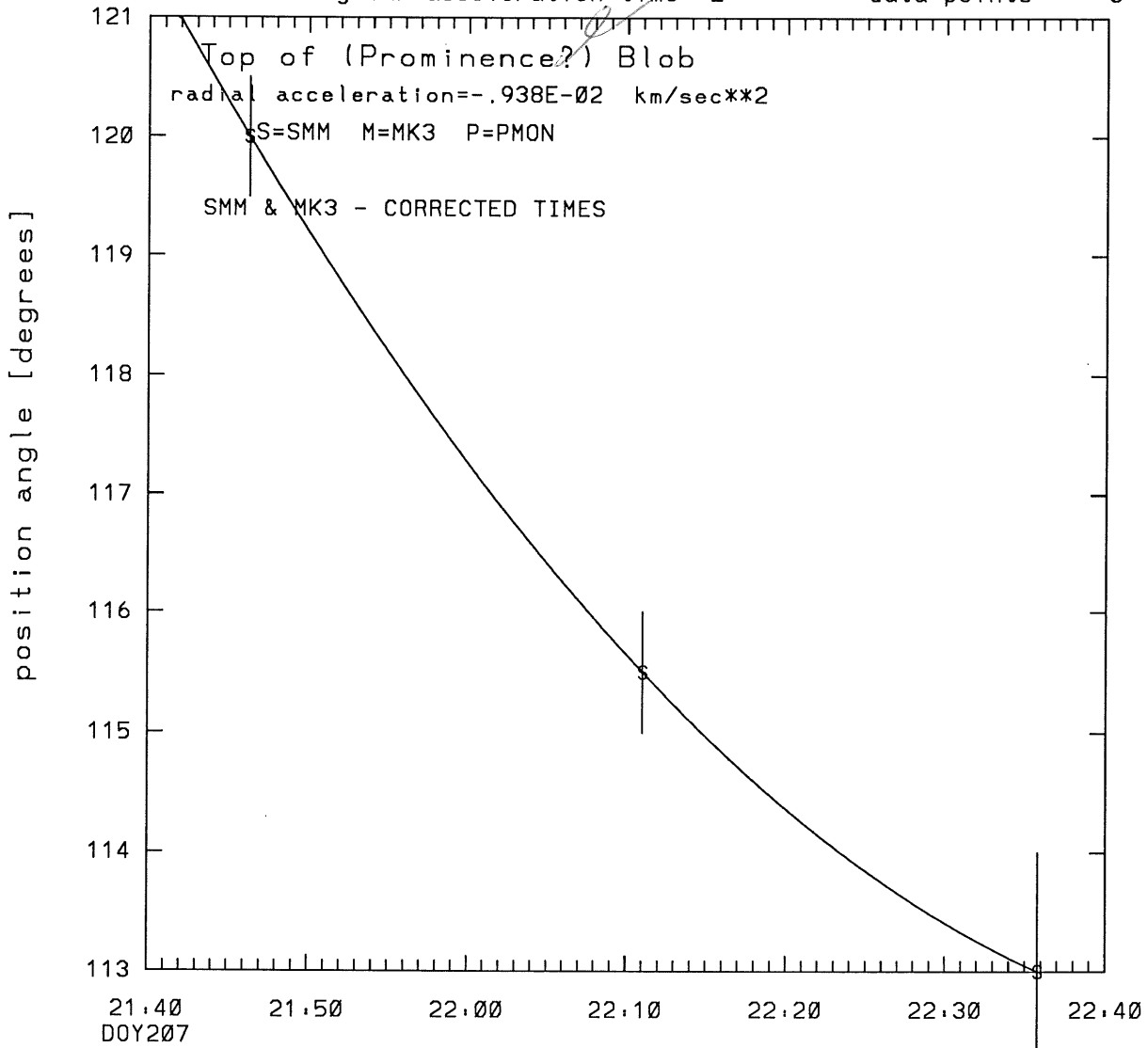
tstart=DOY207 20:38 +/- 0.0 [min.]

radial acceleration =  $-0.0094 +/- 0.0000$  [km/sec\*\*2]

SMM C/P 1988 DOY207 116 +/- 4 degrees

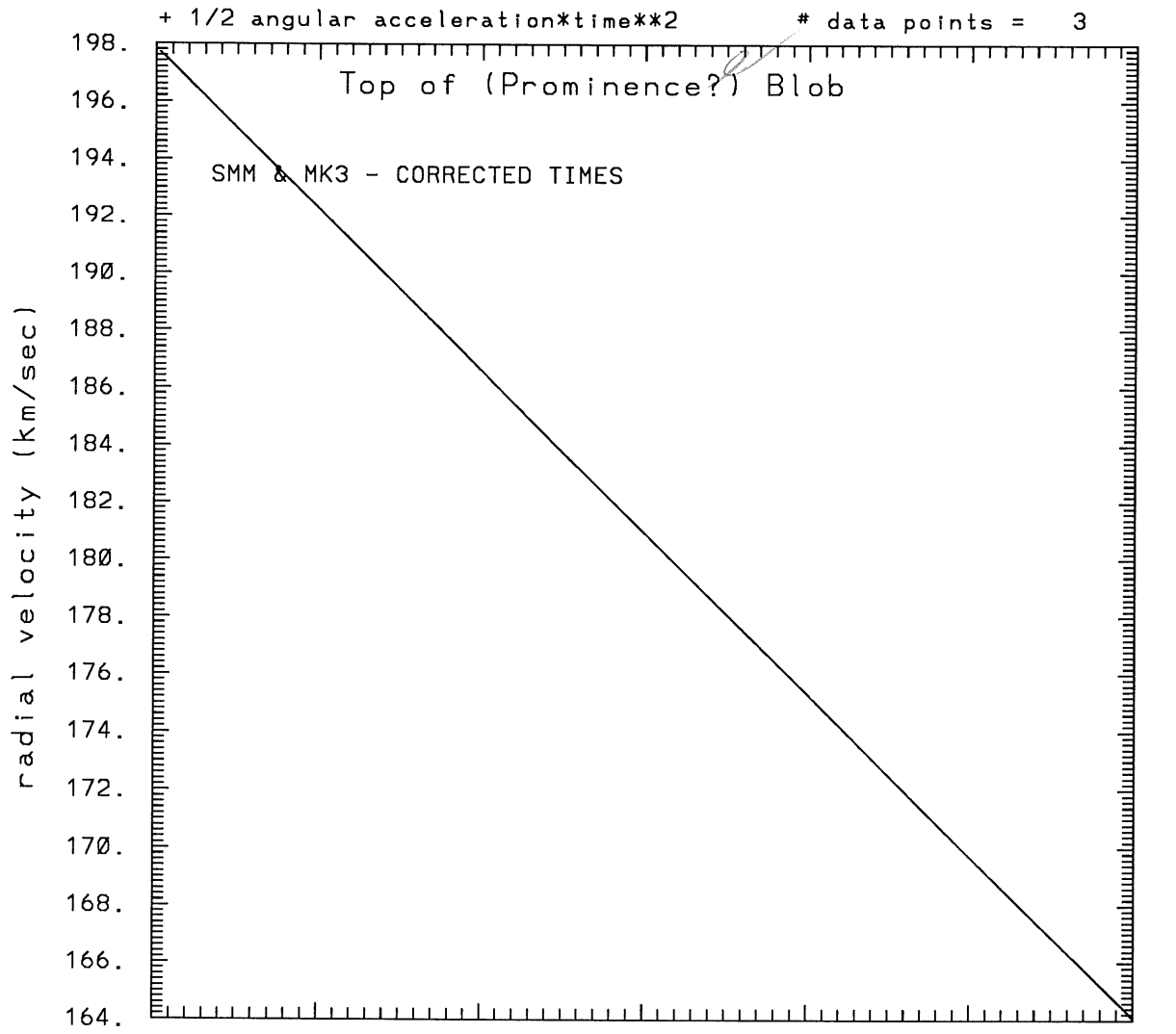
angle = initial angle + angular velocity\*time  
+ 1/2 angular acceleration\*time\*\*2

# data points = 3



angular acceleration =  $0.158 \times 10^{-7} \pm 0.000 \times 10^0$  [rad/sec\*\*2]

SMM C/P 1988 DOY207 116 +/- 4 degrees



21.40  
DOY207

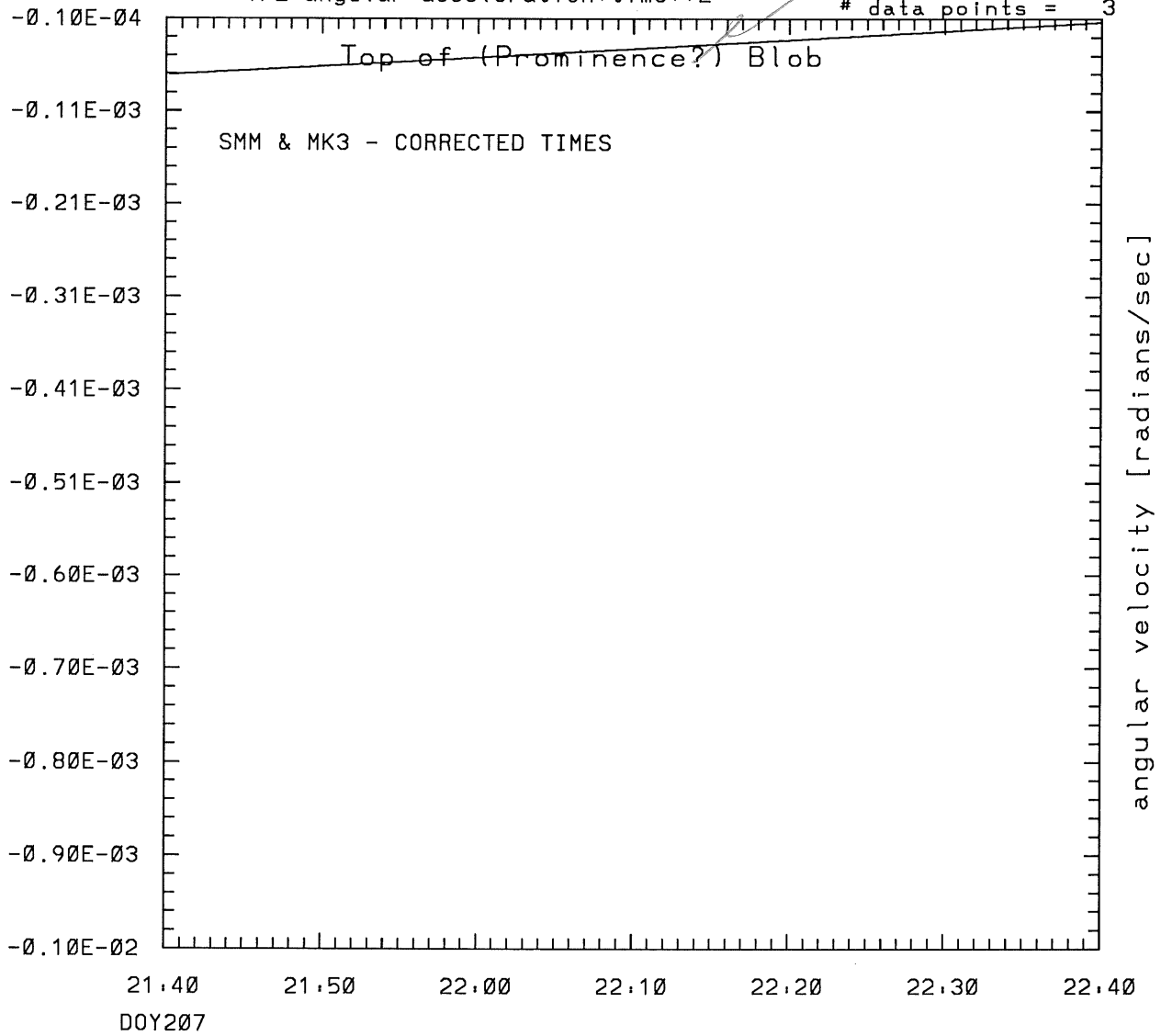
tstart=DOY207 20:38 +/- 0.0 [min.]

radial acceleration=-.938E-02 km/sec\*\*2

SMM C/P 1988 DOY207 116 +/- 4 degrees

$$\text{angle} = \text{initial angle} + \text{angular velocity} * \text{time} + \frac{1}{2} \text{angular acceleration} * \text{time}^2$$

# data points = 3



angular acceleration =  $0.158E-07$  +/-  $0.000E+00$  [rad/sec\*\*2]

\*\*\*\*\*  
This is a 1 order run  
\*\*\*\*\*

\*\*\*\*\*  
INPUT:  
\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	207	21:46:17	2.26 +/-	0.10	120.0 +/-	0.5	SMM
1988	207	22:11: 3	2.66 +/-	0.10	115.5 +/-	0.5	SMM
1988	207	22:35:48	3.03 +/-	0.10	113.0 +/-	1.0	SMM

\*\*\*\*\*  
Structure being measured:  
Top of (Prominence) Blob  
\*\*\*\*\*

\*\*\*\*\*  
OUTPUT:  
\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.751E+02 +/- 0.709E+00 [minutes]  
In more convenient units:  
Event began at DOY 207 20:25 +/- 0.709E+00 [minutes]

Origin defined at DOY207 21:40

RADIAL INFORMATION:

RADIAL VELOCITY = 180. +/- 3. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.217E+01 +/- 0.908E-02 [solar radii]  
c(2) = 0.156E-01 +/- 0.245E-03 [radii/min]  
c(2) = 0.180E+03 +/- 0.284E+01 [km/sec]  
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min\*\*2]  
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec\*\*2]

The computed ERRORS in coefficients [BEVINGTON] are:

error in c(1)= 0.12847E-01 [radii] see Bevington pg. 114  
error in c(2)= 0.34677E-03 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = -0.4503E-04 +/- 0.5531E-05[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 121. +/- 1. [degrees]  
a(2) = -0.155E+00 +/- 0.190E-01 [degrees/min]  
a(2) = -0.450E-04 +/- 0.553E-05 [rad/sec]  
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min\*\*2]  
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec\*\*2]

The RADIAL velocity at 21:46 = 180. km/sec

The RADIAL velocity at 22:11 = 180. km/sec

The RADIAL velocity at 22:35 = 180. km/sec

\*\*\*\*\*  
The following info is for estimating goodness of the fit  
\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.39  
Standard Deviation in start time measurement = 0.202E+02  
Error in time = 0.78080E+00 using best fit method  
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.737E-04  
Reduced Chi Squared = 0.295E-03  
Chi Squared = 0.295E-03  
The probability for exceeding chi square = 0.993E+00

The correlation coefficient = 0.100E+01  
The probability that no LINEAR correlation exists between the variables = 0.1429  
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]



\*\*\*\*\*  
This is a 2 order run  
\*\*\*\*\*

\*\*\*\*\*  
INPUT:  
\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	207	21:46:17	2.26 +/-	0.10	120.0 +/-	0.5	SMM
1988	207	22:11: 3	2.66 +/-	0.10	115.5 +/-	0.5	SMM
1988	207	22:35:48	3.03 +/-	0.10	113.0 +/-	1.0	SMM

\*\*\*\*\*  
Structure being measured:  
Top of (Prominence) Blob  
\*\*\*\*\*

\*\*\*\*\*  
OUTPUT:  
\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.622E+02 +/- 0.000E+00 [minutes]  
In more convenient units:  
Event began at DOY 207 20:38 +/- 0.000E+00 [minutes]

Origin defined at DOY207 21:40

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.938E-02 +/- 0.184E-06 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.215E+01 +/- 0.365E-06 [solar radii]  
c(2) = 0.171E-01 +/- 0.303E-07 [radii/min]  
c(2) = 0.198E+03 +/- 0.352E-03 [km/sec]  
c(3) = -0.243E-04 +/- 0.476E-09 [radii/min\*\*2]  
c(3) = -0.938E-02 +/- 0.184E-06 [km/sec\*\*2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.1580E-07 +/- 0.0000E+00[radians/sec\*\*2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 121. +/- 0. [degrees]  
a(2) = -0.243E+00 +/- 0.000E+00 [degrees/min]  
a(2) = -0.705E-04 +/- 0.000E+00 [rad/sec]  
a(3) = 0.163E-02 +/- 0.000E+00 [degrees/min\*\*2]  
a(3) = 0.158E-07 +/- 0.000E+00 [rad/sec\*\*2]

The RADIAL velocity at 21:46 = 194. km/sec

The RADIAL velocity at 22:11 = 180. km/sec

The RADIAL velocity at 22:35 = 166. km/sec

\*\*\*\*\*  
The following info is for estimating goodness of the fit  
\*\*\*\*\*

Number data points = number of coefficients. No error analysis is possible.  
Correlation coefficient is not computable!