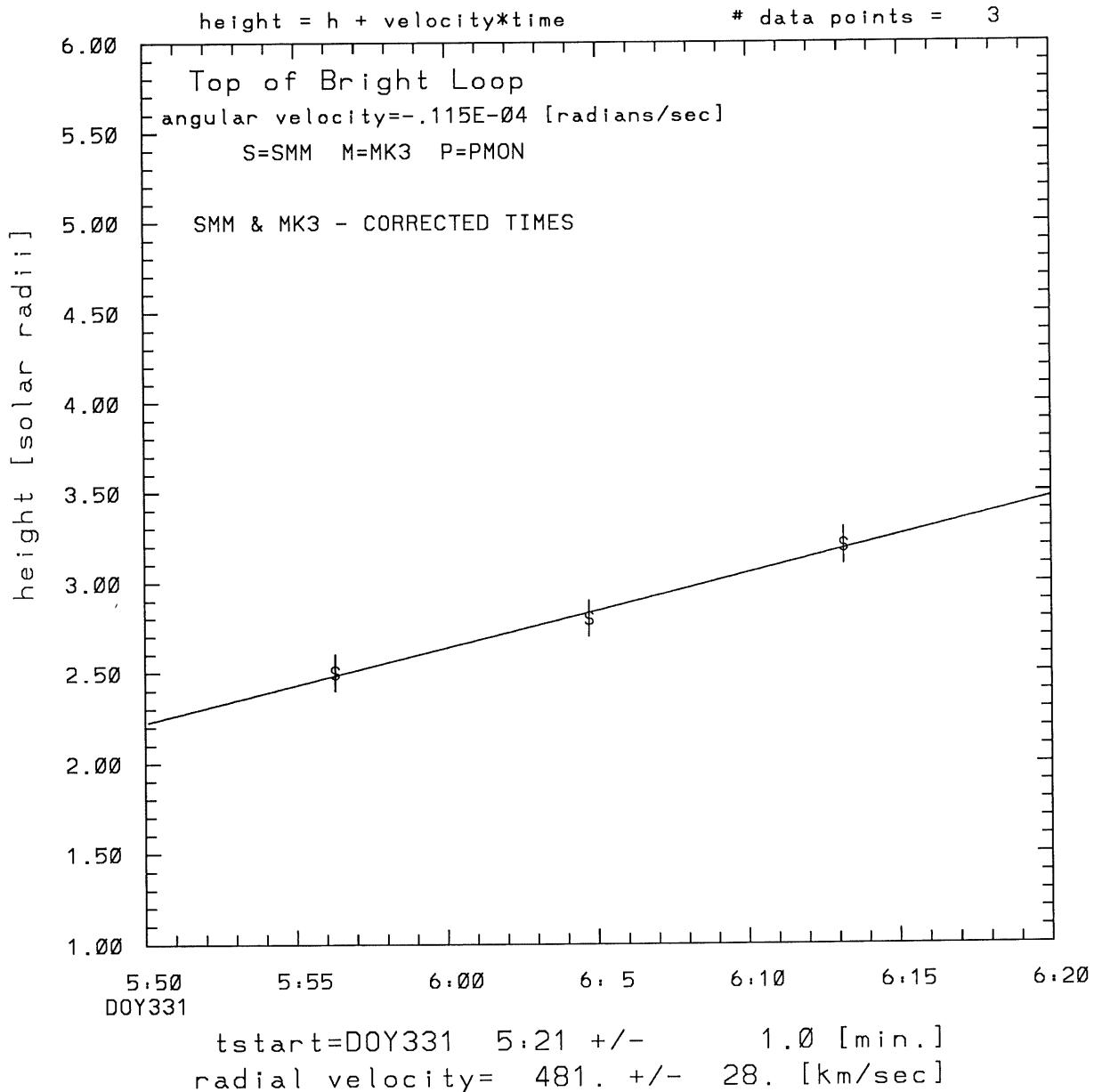
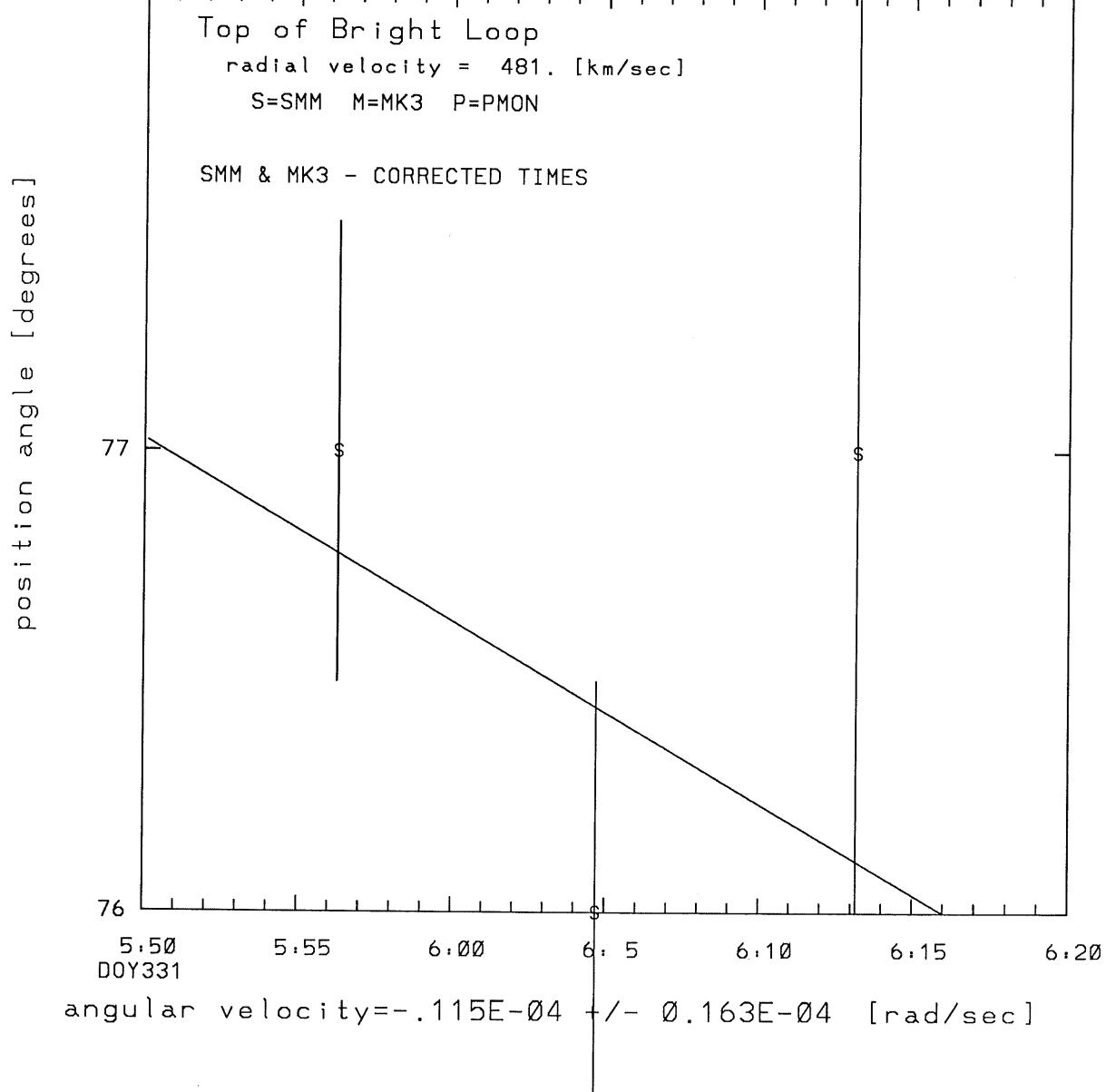


SMM C/P 1988 DOY331 76 +/- 1 degrees

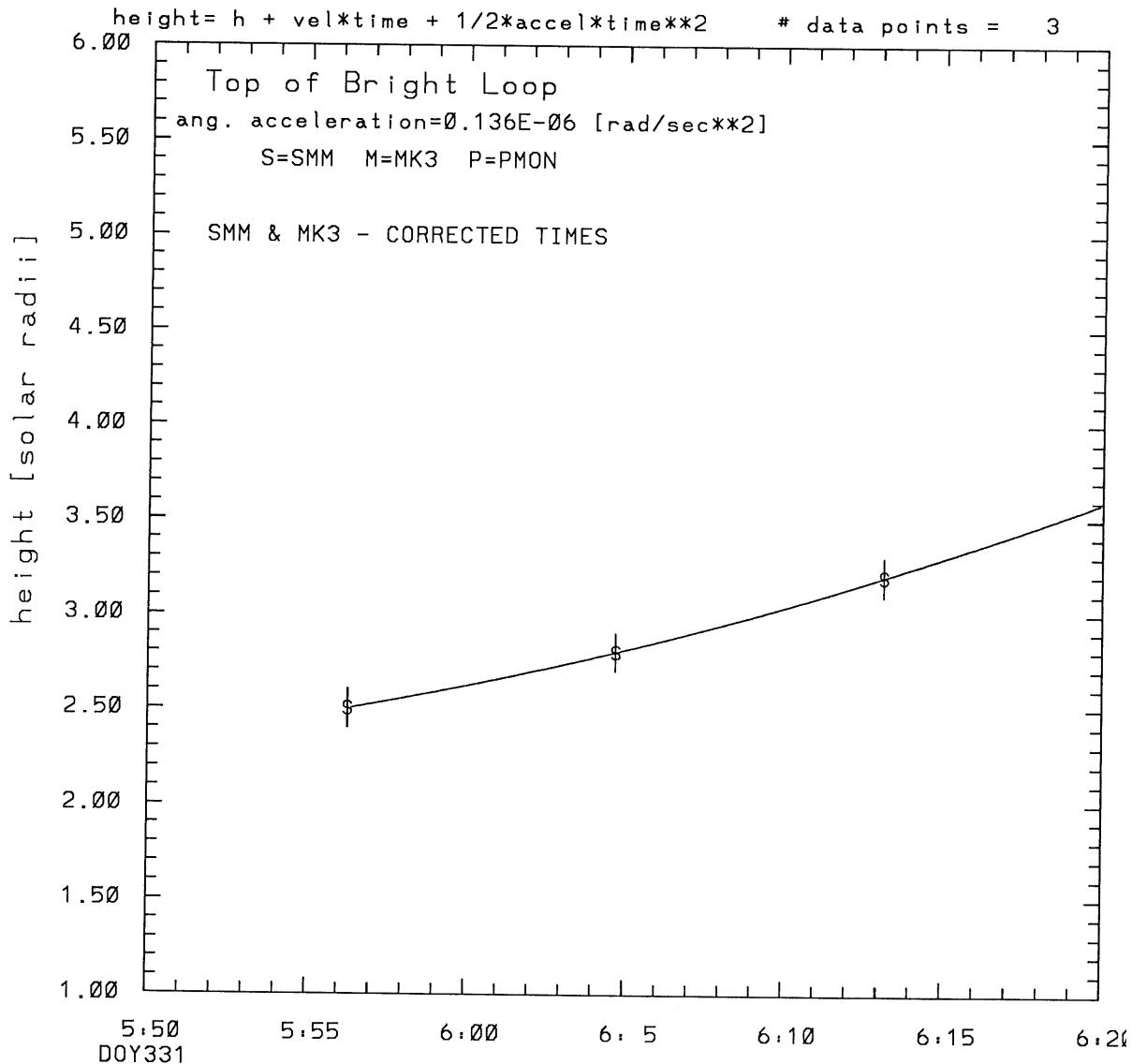


SMM C/P 1988 DOY331 76 +/- 1 degrees

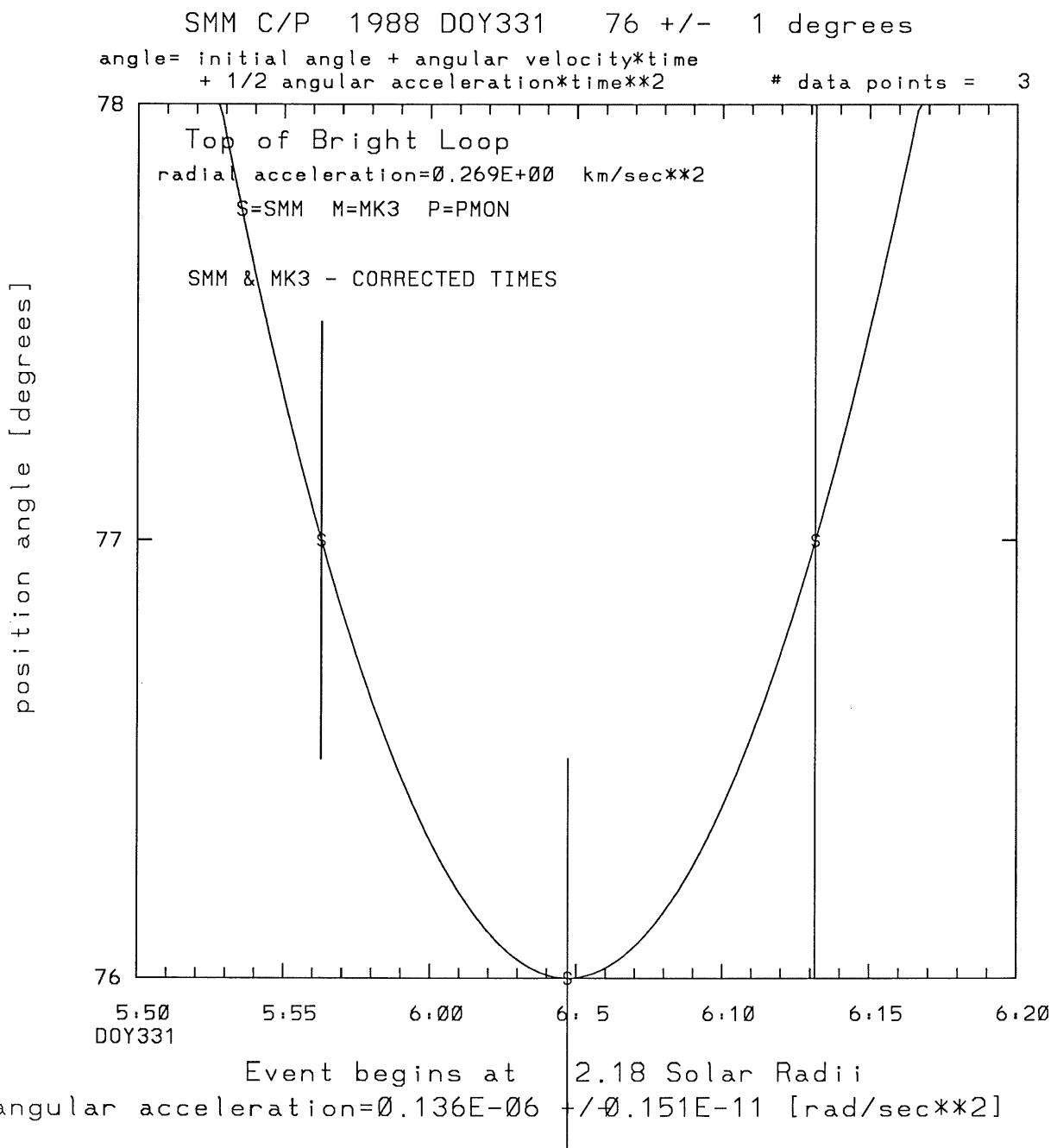
angle= initial angle + angular velocity*time # data points = 3
78



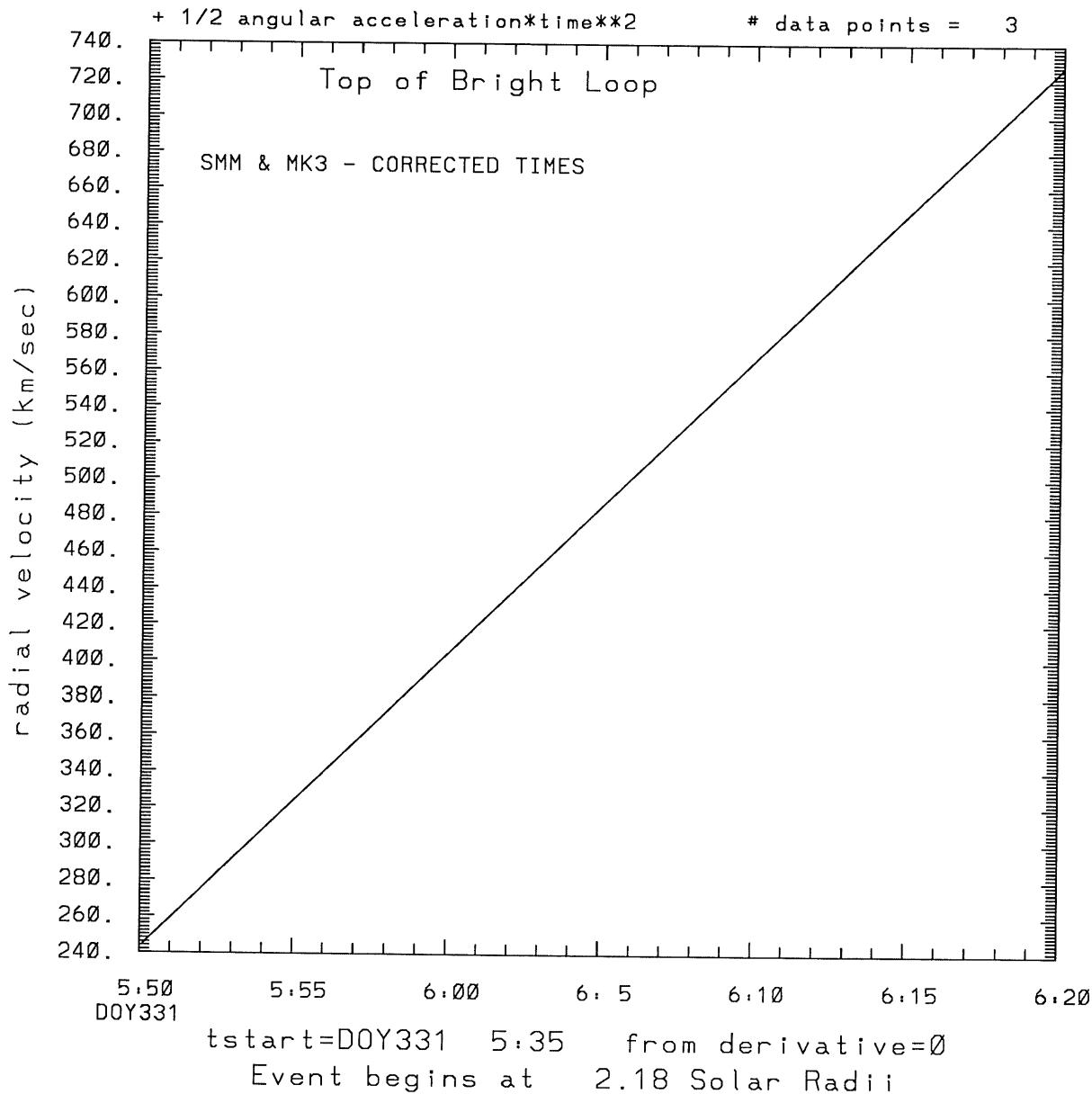
SMM C/P 1988 DOY331 76 +/- 1 degrees

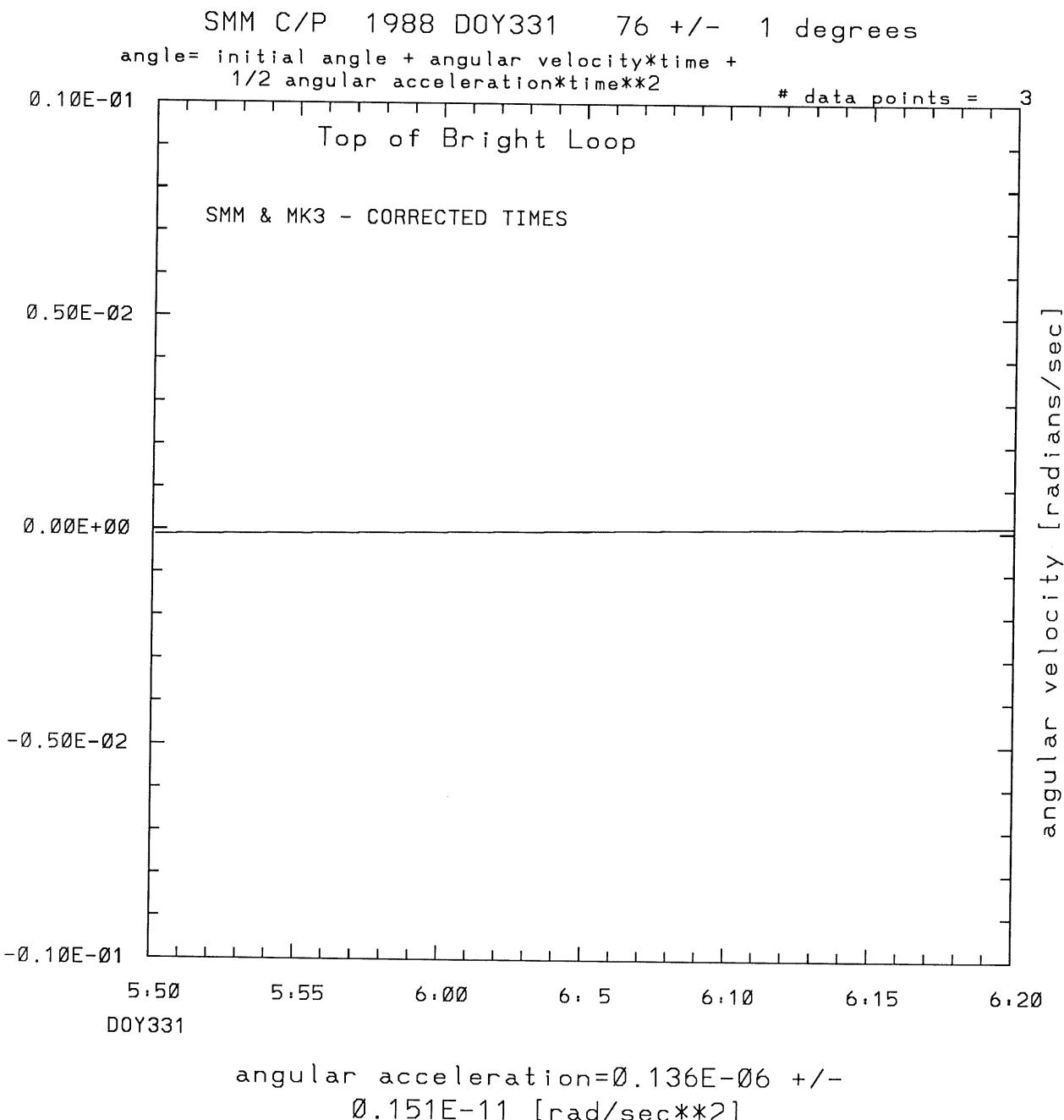


tstart=DOY331 5:35 from derivative=0
Event begins at 2.18 Solar Radii
radial acceleration= 0.2694 +/- 0.0000 [km/sec**2]



SMM C/P 1988 DOY331 76 +/- 1 degrees





This is a 1 order run

INPUT:

year	doy	time	radii	radius	angle	angle	datatype
1988	331	5:56:17	2.50	+/- 0.10	77.0	+/- 0.5	SMM
1988	331	6: 4:43	2.80	+/- 0.10	76.0	+/- 0.5	SMM
1988	331	6:13:10	3.20	+/- 0.10	77.0	+/- 1.0	SMM

Structure being measured:
Top of Bright Loop

OUTPUT:

START TIME:

Event began at $t = 0 + -0.295E+02 +/ - 0.103E+01$ [minutes]
In more convenient units:
Event began at DOY 331 5:21 +/- 0.103E+01 [minutes]

Origin defined at DOY331 5:50

RADIAL INFORMATION:

RADIAL VELOCITY = 481. +/- 28. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.222E+01 +/- 0.390E-01 [solar radii]
c(2) = 0.415E-01 +/- 0.240E-02 [radii/min]
c(2) = 0.481E+03 +/- 0.279E+02 [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)= 0.55205E-01 [radii] see Bevington pg. 114
error in c(2)= 0.33960E-02 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = -0.1147E-04 +/- 0.1625E-04[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 77. +/- 1. [degrees]
a(2) = -0.394E-01 +/- 0.559E-01 [degrees/min]
a(2) = -0.115E-04 +/- 0.163E-04 [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 5:56 = 481. km/sec

The RADIAL velocity at 6: 4 = 481. km/sec

The RADIAL velocity at 6:13 = 481. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.35
Standard Deviation in start time measurement = 0.689E+01
Error in time = 0.97781E+00 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.822E-03
Reduced Chi Squared = 0.329E-02
Chi Squared = 0.329E-02
The probability for exceeding chi square = 0.977E+00

The correlation coefficient = 0.997E+00
The probability that no LINEAR correlation exists between the variables = 0.52071
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

This is a 2 order run

INPUT:

year	doy	time	radii	radius	angle	angle	datatype
1988	331	5:56:17	2.50	+/- 0.10	77.0	+/- 0.5	SMM
1988	331	6: 4:43	2.80	+/- 0.10	76.0	+/- 0.5	SMM
1988	331	6:13:10	3.20	+/- 0.10	77.0	+/- 1.0	SMM

Structure being measured:
Top of Bright Loop

OUTPUT:

START TIME:

tstart=DOY331 5:35 from derivative = 0
Event begins at 2.18 Solar Radii
Origin defined at DOY331 5:50

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.269E+00 +/- 0.653E-05 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.234E+01 +/- 0.316E-05 [solar radii]
c(2) = 0.209E-01 +/- 0.504E-06 [radii/min]
c(2) = 0.243E+03 +/- 0.585E-02 [km/sec]
c(3) = 0.697E-03 +/- 0.169E-07 [radii/min**2]
c(3) = 0.269E+00 +/- 0.653E-05 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.1361E-06 +/- 0.1507E-11[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 79. +/- 0. [degrees]
a(2) = -0.413E+00 +/- 0.423E-05 [degrees/min]
a(2) = -0.120E-03 +/- 0.123E-08 [rad/sec]
a(3) = 0.140E-01 +/- 0.155E-06 [degrees/min**2]
a(3) = 0.136E-06 +/- 0.151E-11 [rad/sec**2]

The RADIAL velocity at 5:56 = 344. km/sec

The RADIAL velocity at 6: 4 = 481. km/sec

The RADIAL velocity at 6:13 = 617. km/sec

The following info is for estimating goodness of the fit

Number data points = number of coefficients. No error analysis is possible.

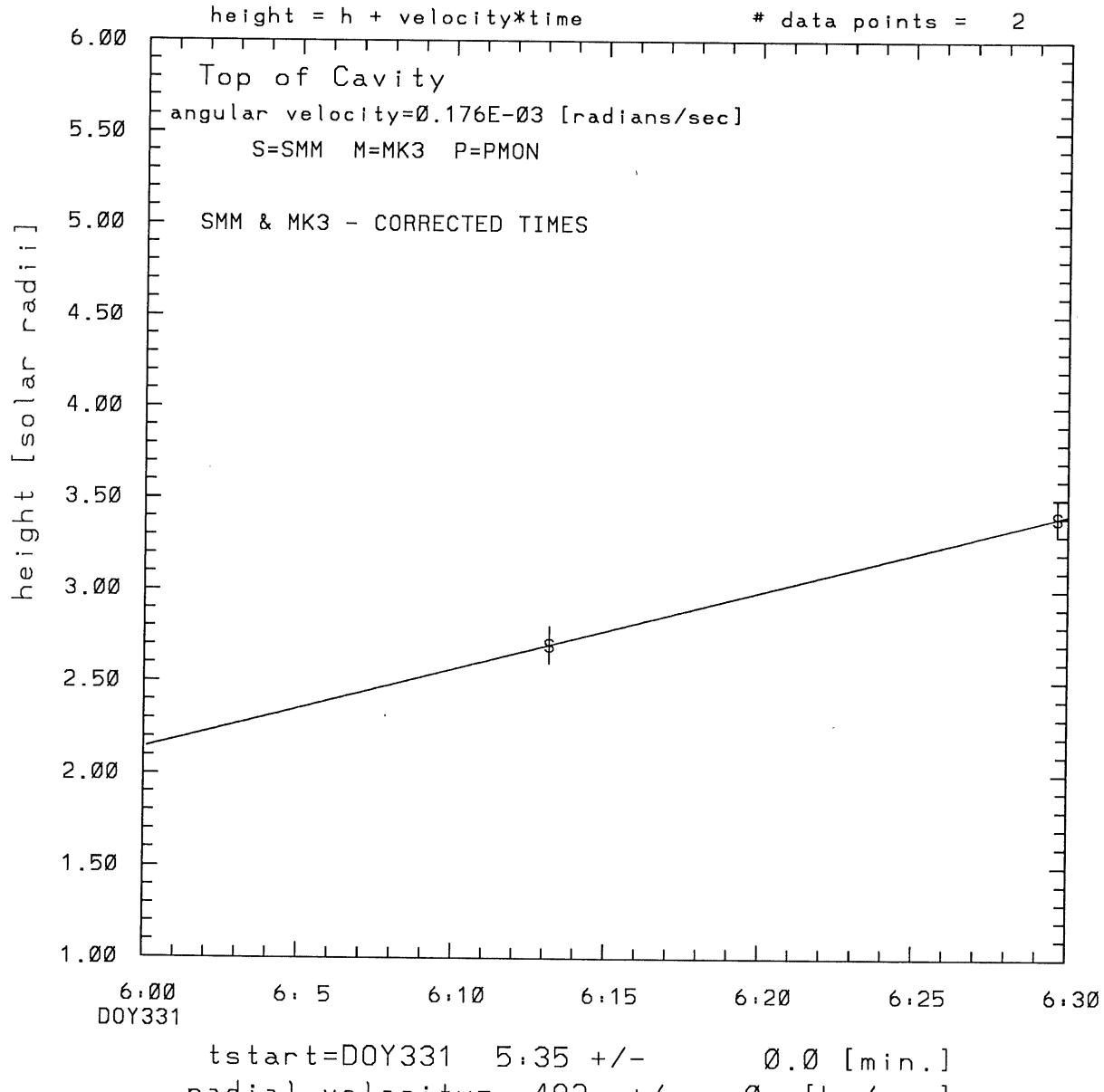
Correlation coefficient is not computable!

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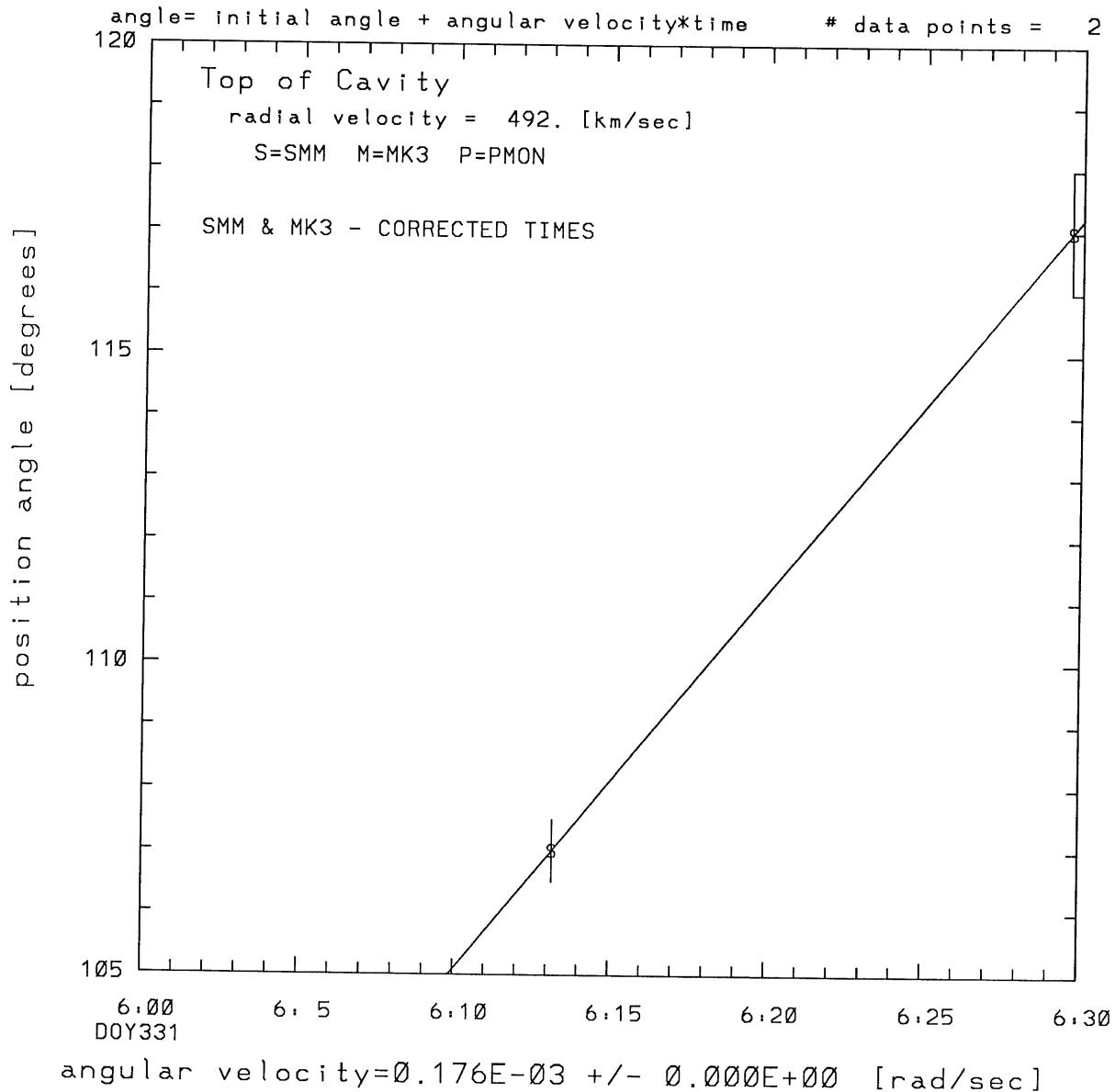
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SMM C/P 1988 DOY331 112 +/- 5 degrees



SMM C/P 1988 DOY331 112 +/- 5 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	angle	angle	datatype
1988	331	6:13:10	2.70	+/- 0.10	107.0	+/- 0.5	SMM
1988	331	6:29:40	3.40	+/- 0.10	117.0	+/- 1.0	SMM

Structure being measured:

Top of Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.269E+02 +/- 0.000E+00 [minutes]
In more convenient units:
Event began at DOY 331 5:35 +/- 0.000E+00 [minutes]

Origin defined at DOY331 6: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 492. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =	0.214E+01	+/- 0.210E-05	[solar radii]
c(2) =	0.424E-01	+/- 0.914E-07	[radii/min]
c(2) =	0.492E+03	+/- 0.106E-02	[km/sec]
c(3) =	0.000E+00	+/- 0.000E+00	[radii/min**2]
c(3) =	0.000E+00	+/- 0.000E+00	[km/sec**2]

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.1763E-03 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) =	99.	+/- 0.	[degrees]
a(2) =	0.606E+00	+/- 0.000E+00	[degrees/min]
a(2) =	0.176E-03	+/- 0.000E+00	[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 6:13 = 492. km/sec

The RADIAL velocity at 6:29 = 492. 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!

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