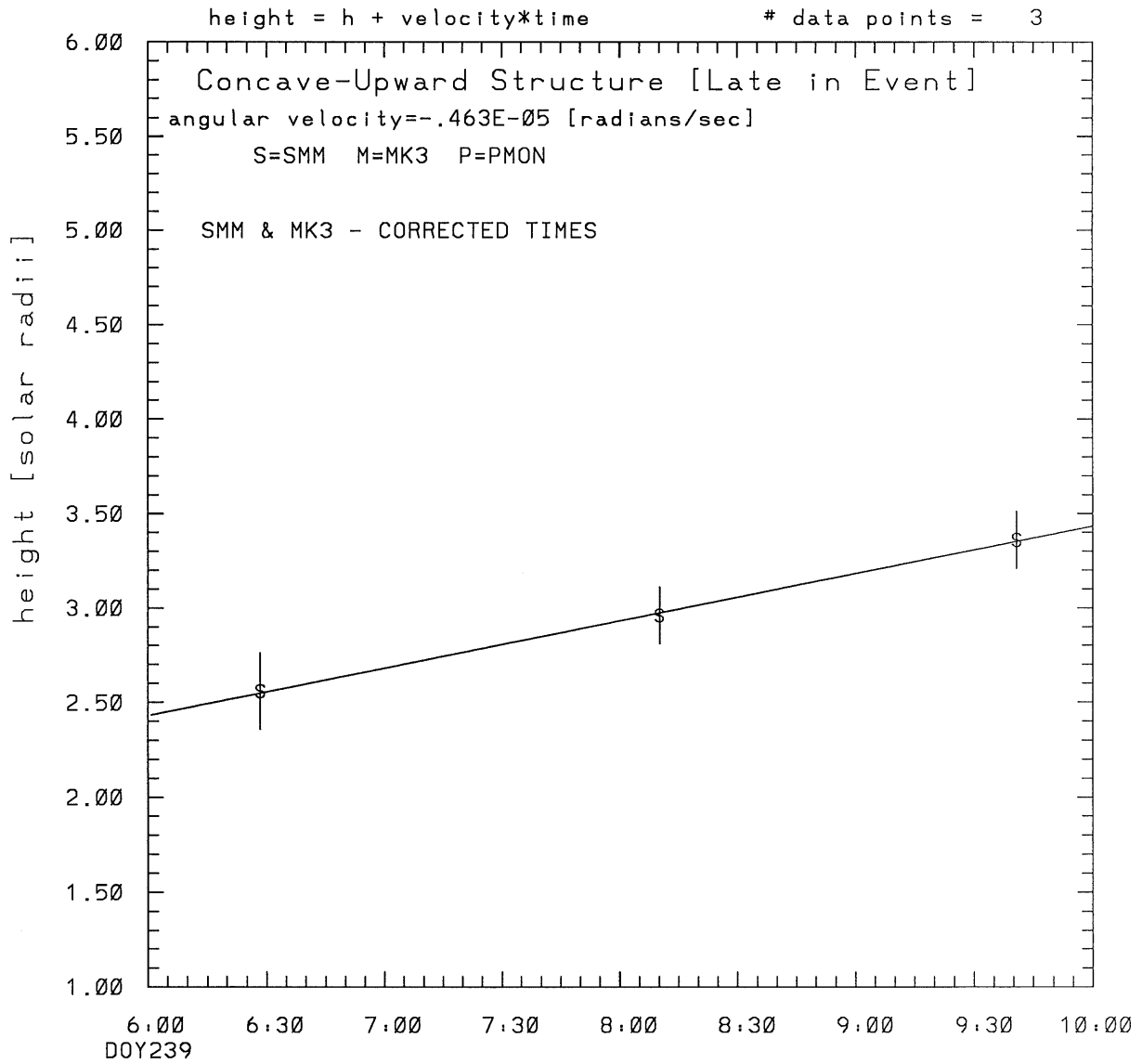


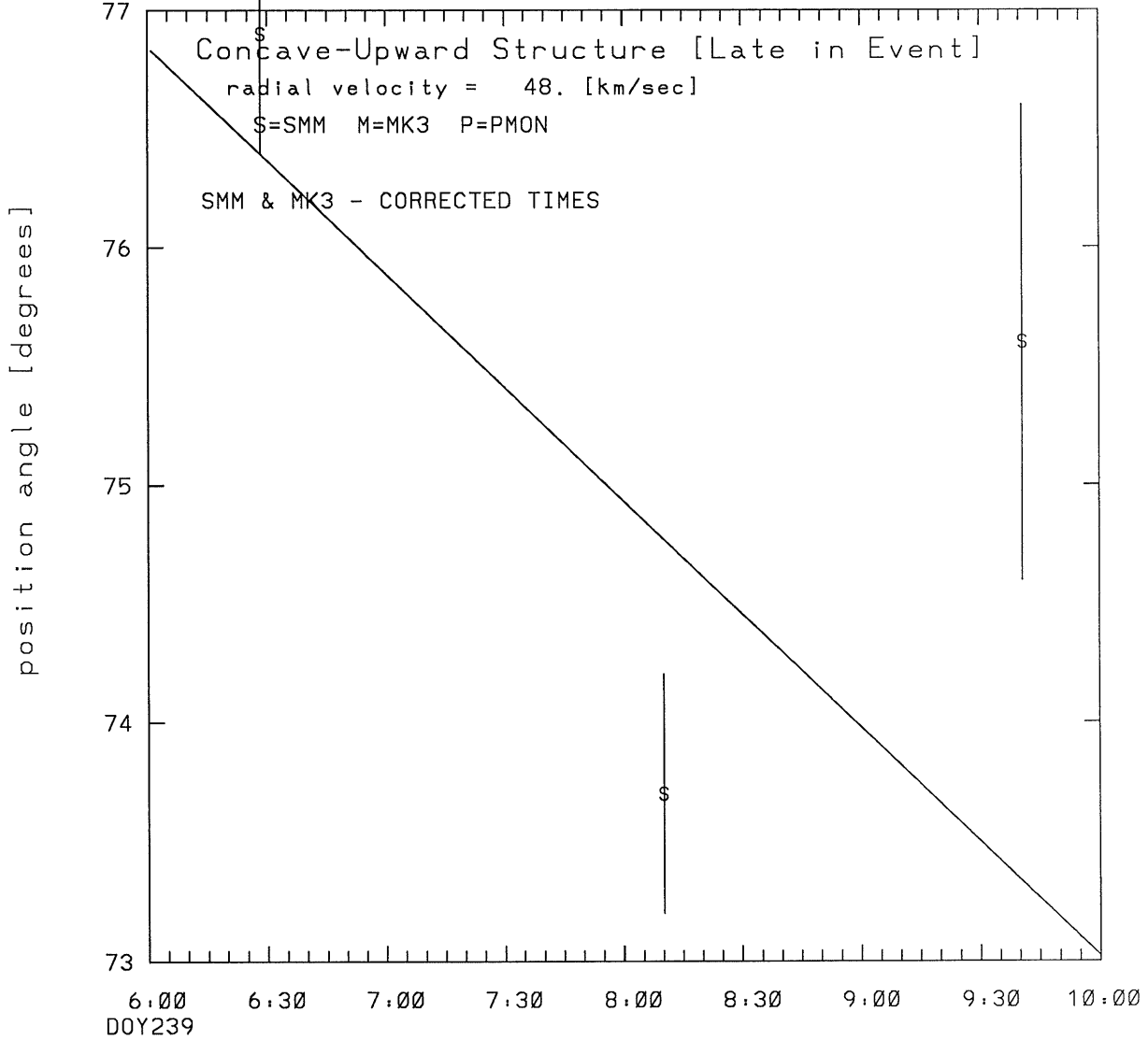
SMM C/P 1980 DOY239 75 +/- 1 degrees



tstart=DOY239 0:18 +/- 6.0 [min.]
radial velocity= 48. +/- 1. [km/sec]

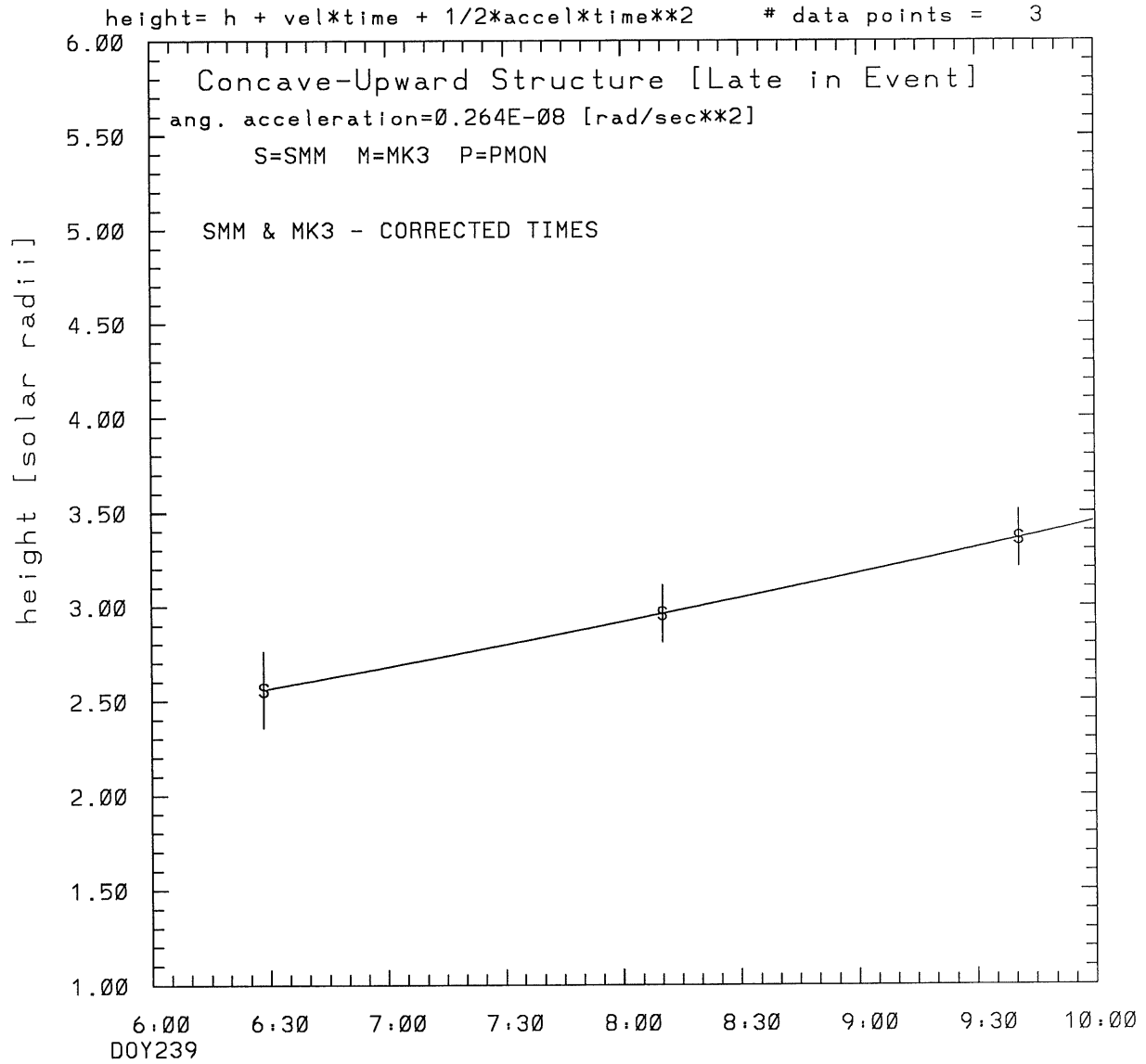
SMM C/P 1980 DOY239 75 +/- 1 degrees

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



tstart=DOY239 0:18 +/- 6.0 [min.]
angular velocity = -.463E-05 +/- 0.344E-05 [rad/sec]

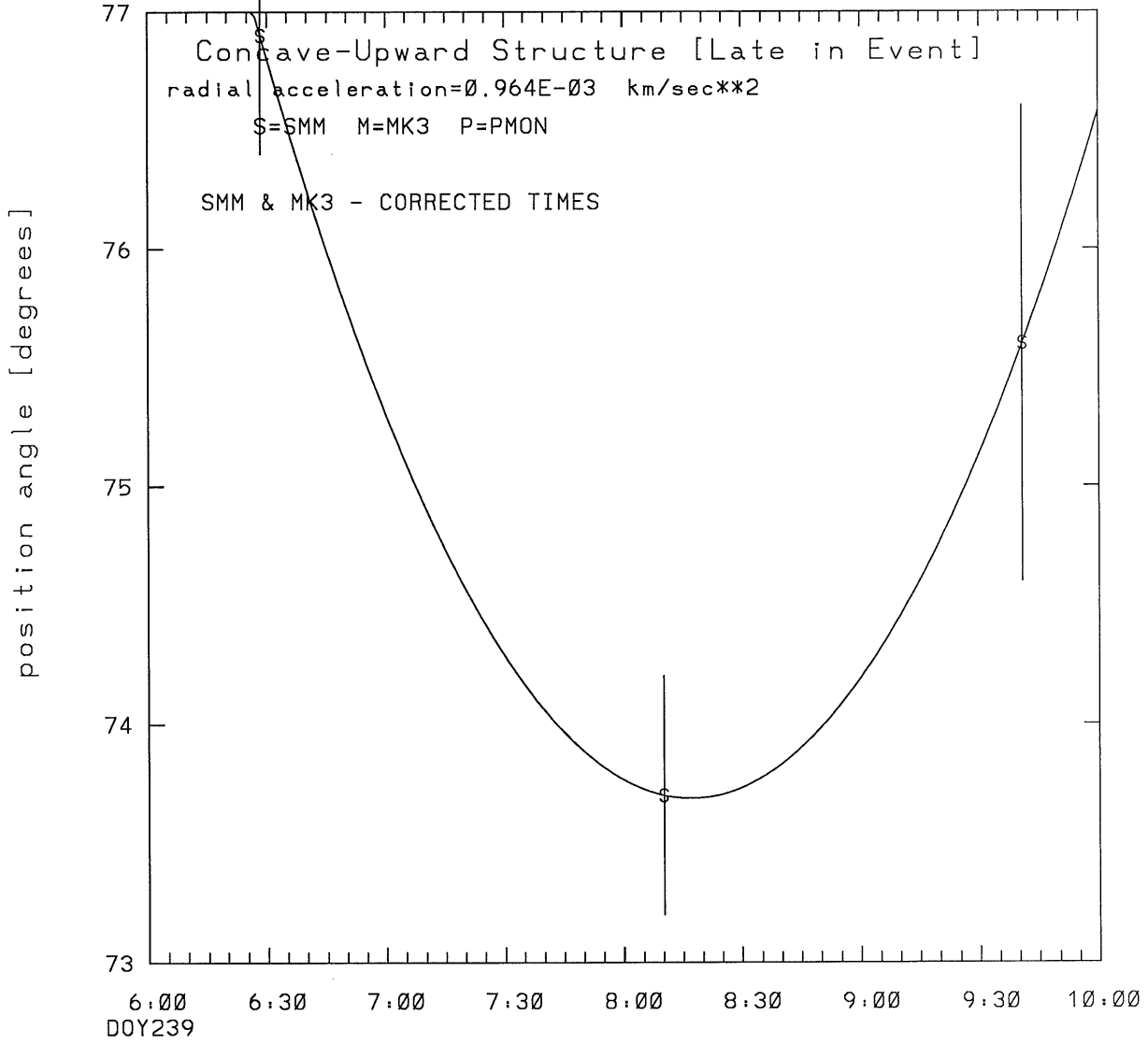
SMM C/P 1980 DOY239 75 +/- 1 degrees



tstart=DOY238 18:11 from derivative=0
Event begins at 1.20 Solar Radii
radial acceleration = $0.0010 +/- 0.0000$ [km/sec**2]

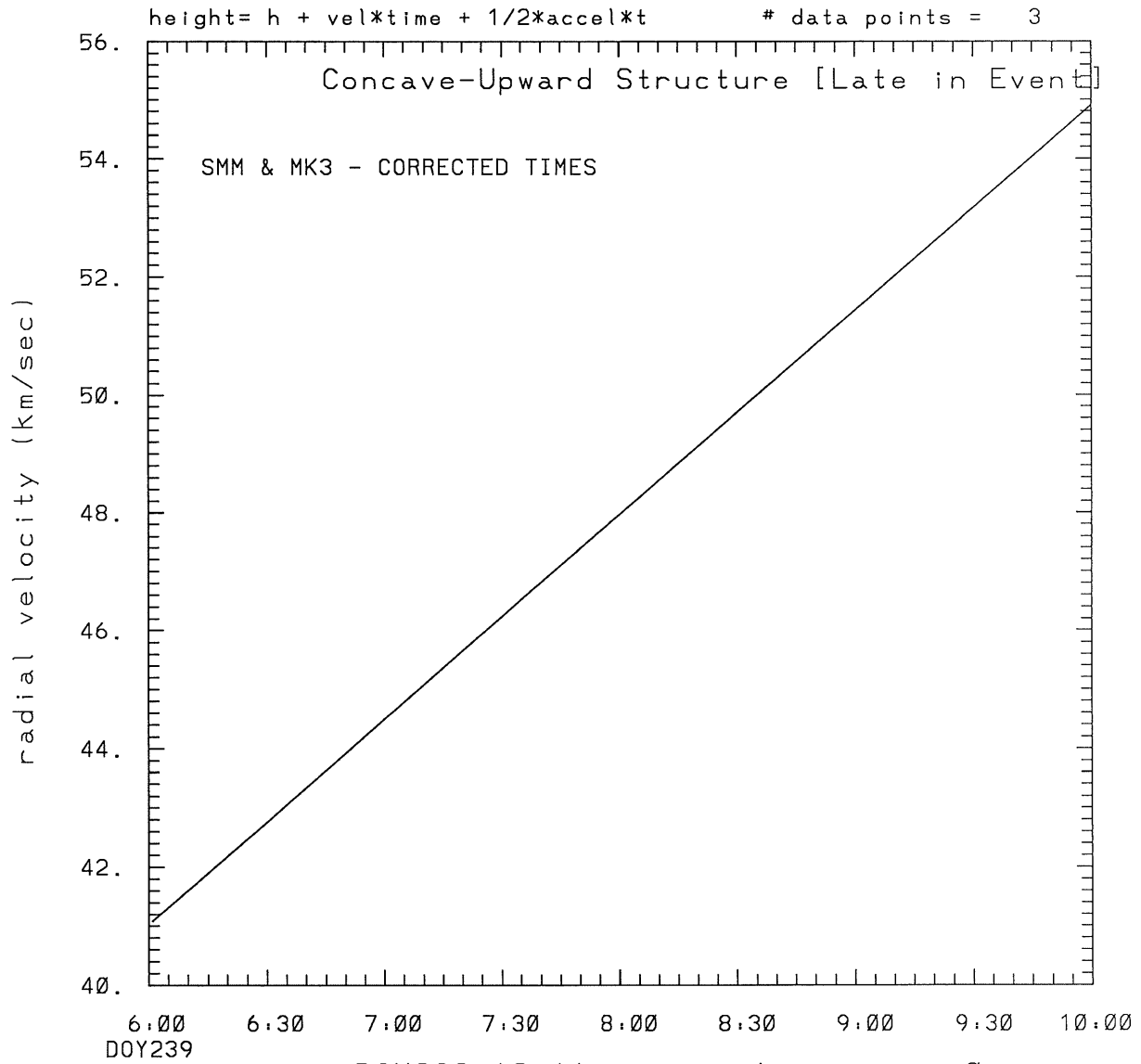
SMM C/P 1980 DOY239 75 +/- 1 degrees

angle = initial angle + angular velocity*time
+ 1/2 angular acceleration*time**2 # data points = 3



tstart=DOY238 18:11 from derivative=0
angular acceleration=0.264E-08 +/-0.150E-13 [rad/sec**2]

SMM C/P 1980 DOY239 75 +/- 1 degrees

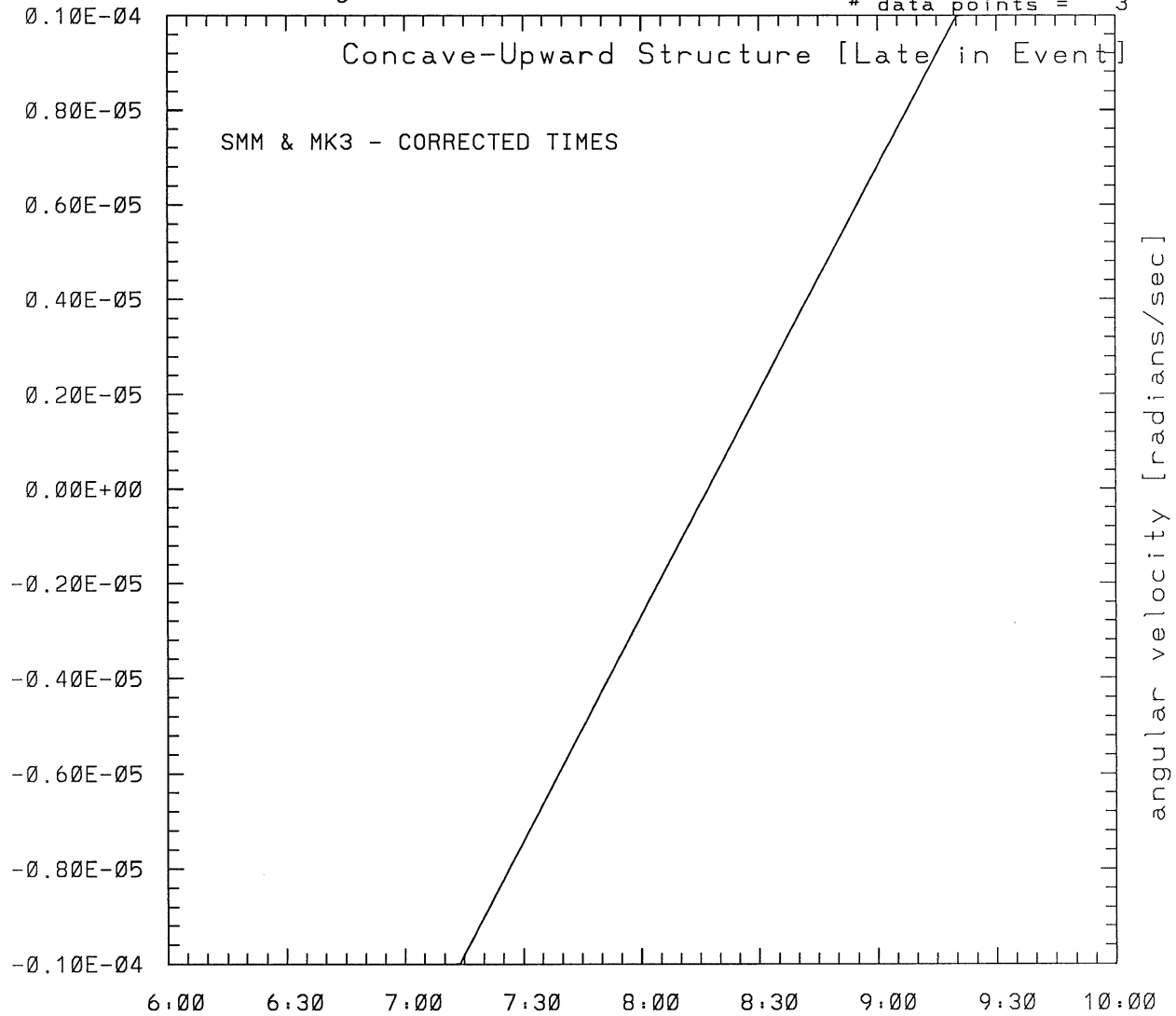


tstart=DOY238 18:11 from derivative=0
Event begins at 1.20 Solar Radii
radial acceleration= $0.964E-03$ km/sec**2

SMM C/P 1980 DOY239 75 +/- 1 degrees

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

data points = 3



tstart=DOY238 18:11 from derivative=0
angular acceleration=0.264E-08 +/-
0.150E-13 [rad/sec**2]

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1980	239	6:28:22	2.56 +/-	0.20	76.9 +/-	0.5	SMM
1980	239	8:10: 6	2.96 +/-	0.15	73.7 +/-	0.5	SMM
1980	239	9:40:47	3.36 +/-	0.15	75.6 +/-	1.0	SMM

Structure being measured:
Concave-Upward Structure (Late in event)

OUTPUT:

START TIME:

Event began at $t = 0 + -0.342E+03 +/- 0.597E+01$ [minutes]
In more convenient units:
Event began at DOY 239 0:18 +/- 0.597E+01 [minutes]

Origin defined at DOY239 6: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 48. +/- 1. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.243E+01 +/- 0.173E-01 [solar radii]
c(2) = 0.418E-02 +/- 0.108E-03 [radii/min]
c(2) = 0.485E+02 +/- 0.125E+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)= 0.21117E-01 [radii] see Bevington pg. 114
error in c(2)= 0.14186E-03 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = -0.4633E-05 +/- 0.3443E-05[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 77. +/- 1. [degrees]
a(2) = -0.159E-01 +/- 0.118E-01 [degrees/min]
a(2) = -0.463E-05 +/- 0.344E-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 6:28 = 48. km/sec

The RADIAL velocity at 8:10 = 48. km/sec

The RADIAL velocity at 9:40 = 48. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.40
Standard Deviation in start time measurement = 0.786E+02
Error in time = 0.46204E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.184E-03
Reduced Chi Squared = 0.666E-03
Chi Squared = 0.666E-03
The probability for exceeding chi square = 0.989E+00

The correlation coefficient = 0.999E+00
The probability that no LINEAR correlation exists between the variables = 0.2118
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
1980	239	6:28:22	2.56 +/-	0.20	76.9 +/-	0.5	SMM
1980	239	8:10: 6	2.96 +/-	0.15	73.7 +/-	0.5	SMM
1980	239	9:40:47	3.36 +/-	0.15	75.6 +/-	1.0	SMM

Structure being measured:
Concave-Upward Structure (Late in event)

OUTPUT:

START TIME:

tstart=DOY238 18:11 from derivative = 0
Event begins at 1.20 Solar Radii
Origin defined at DOY239 6: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.964E-03 +/- 0.825E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.246E+01 +/- 0.317E-04 [solar radii]
c(2) = 0.354E-02 +/- 0.566E-06 [radii/min]
c(2) = 0.410E+02 +/- 0.656E-02 [km/sec]
c(3) = 0.249E-05 +/- 0.213E-08 [radii/min**2]
c(3) = 0.964E-03 +/- 0.825E-06 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.2641E-08 +/- 0.1502E-13[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 79. +/- 0. [degrees]
a(2) = -0.746E-01 +/- 0.347E-06 [degrees/min]
a(2) = -0.217E-04 +/- 0.101E-09 [rad/sec]
a(3) = 0.272E-03 +/- 0.155E-08 [degrees/min**2]
a(3) = 0.264E-08 +/- 0.150E-13 [rad/sec**2]

The RADIAL velocity at 6:28 = 43. km/sec

The RADIAL velocity at 8:10 = 49. km/sec

The RADIAL velocity at 9:40 = 54. 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!