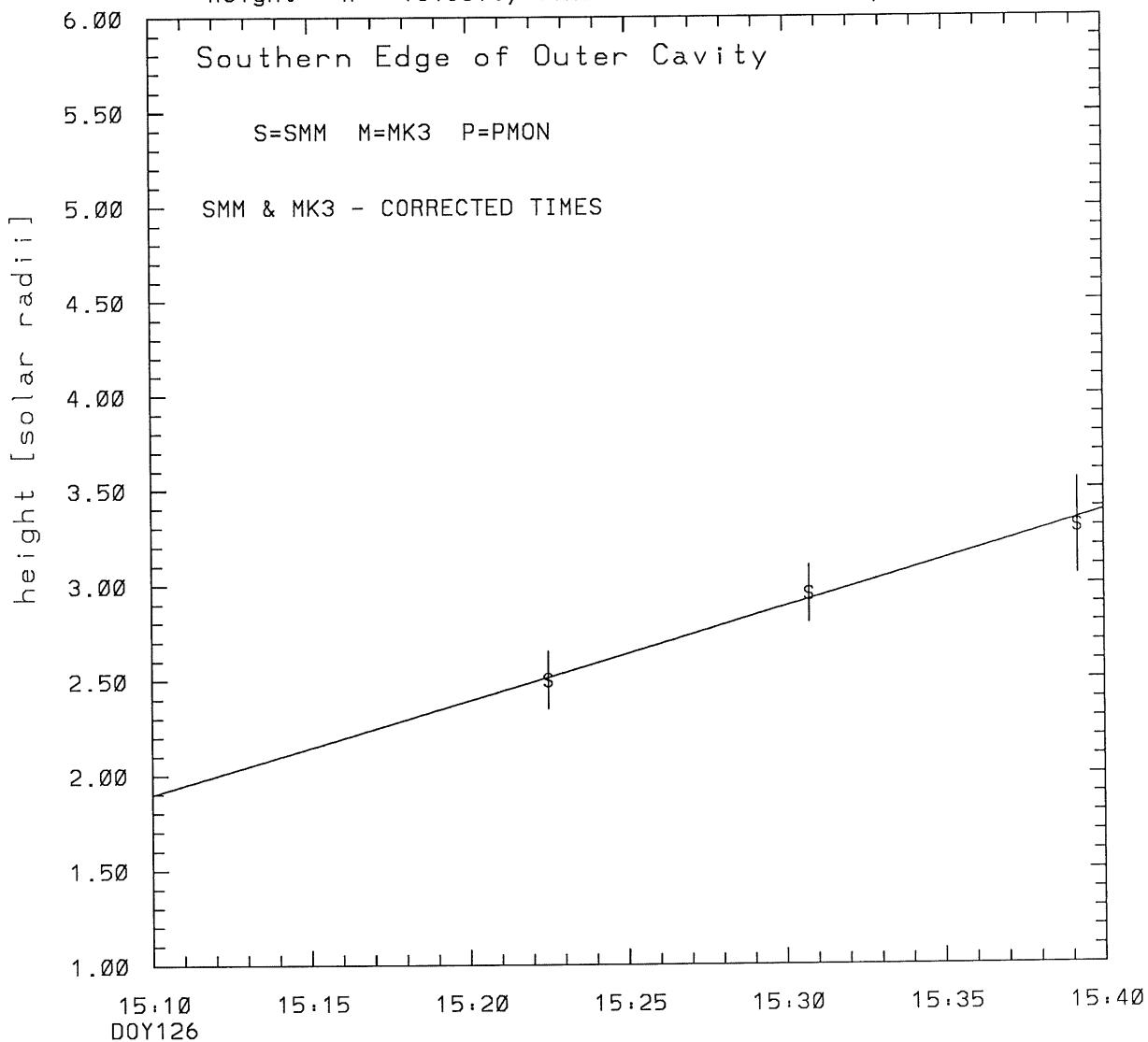


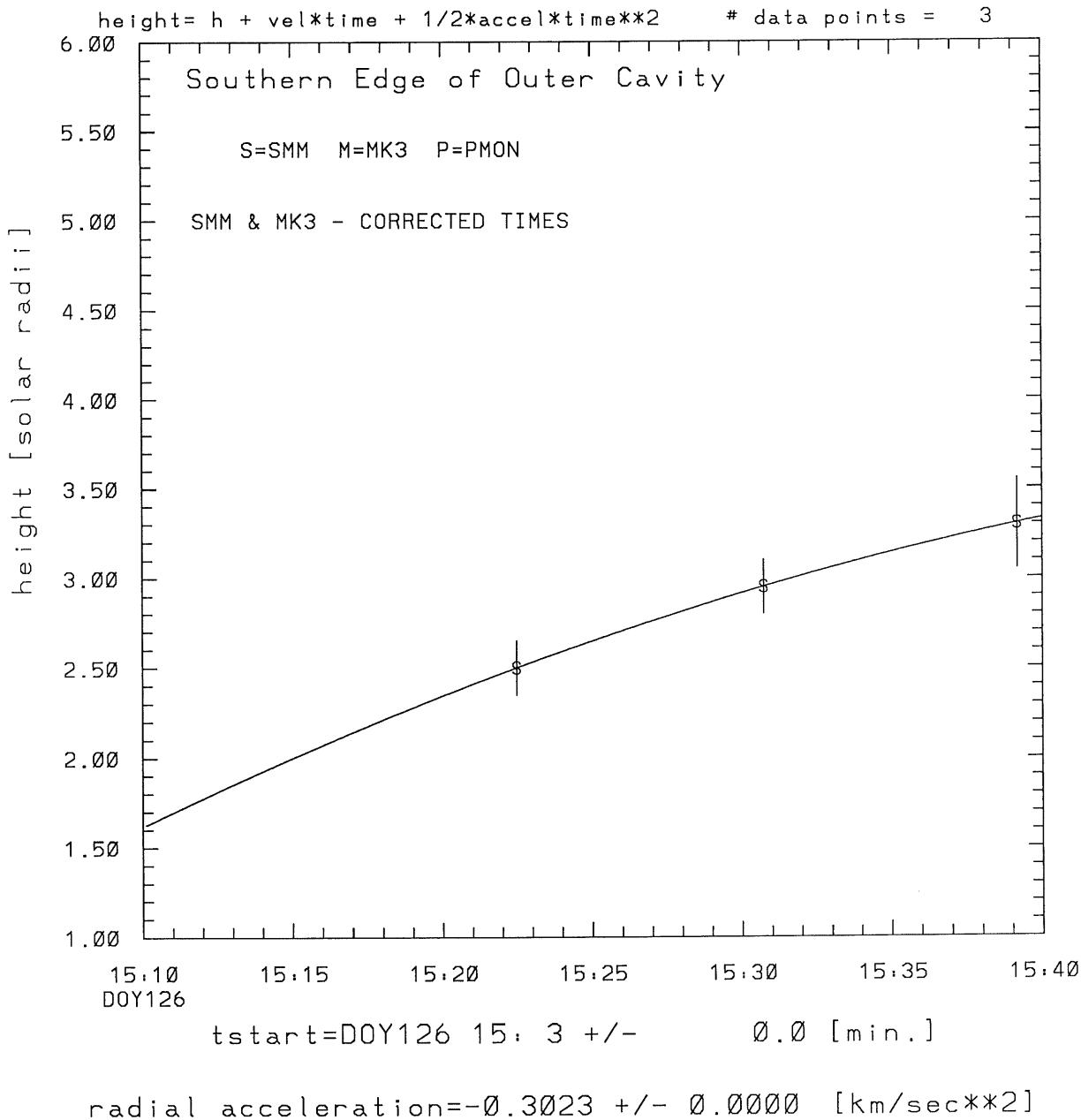
SMM C/P 1989 DOY126 233 +/- 0 degrees

height = h + velocity*time # data points = 3

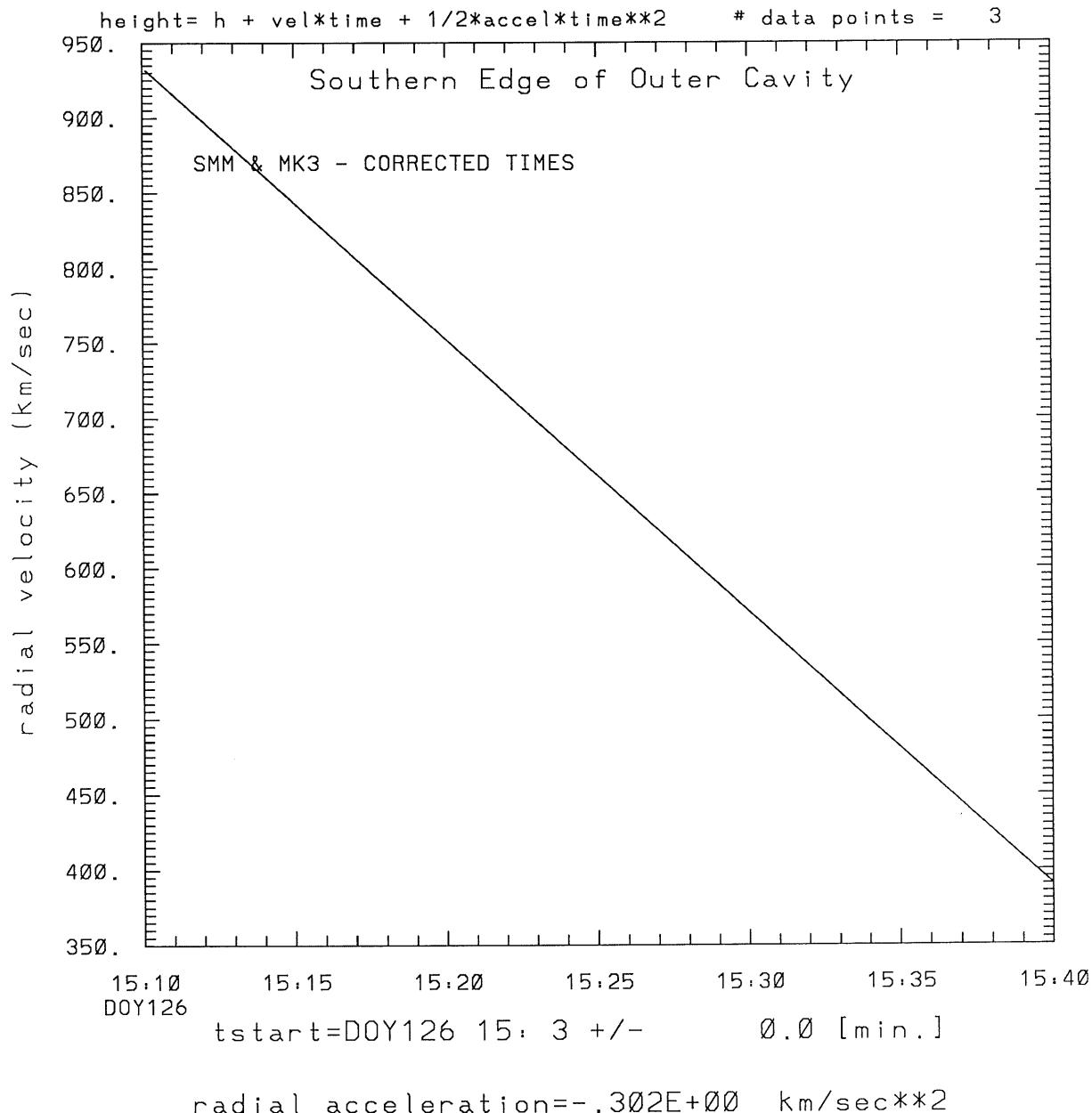


tstart=DOY126 14:52 +/- 0.9 [min.]
radial velocity= 573. +/- 35. [km/sec]

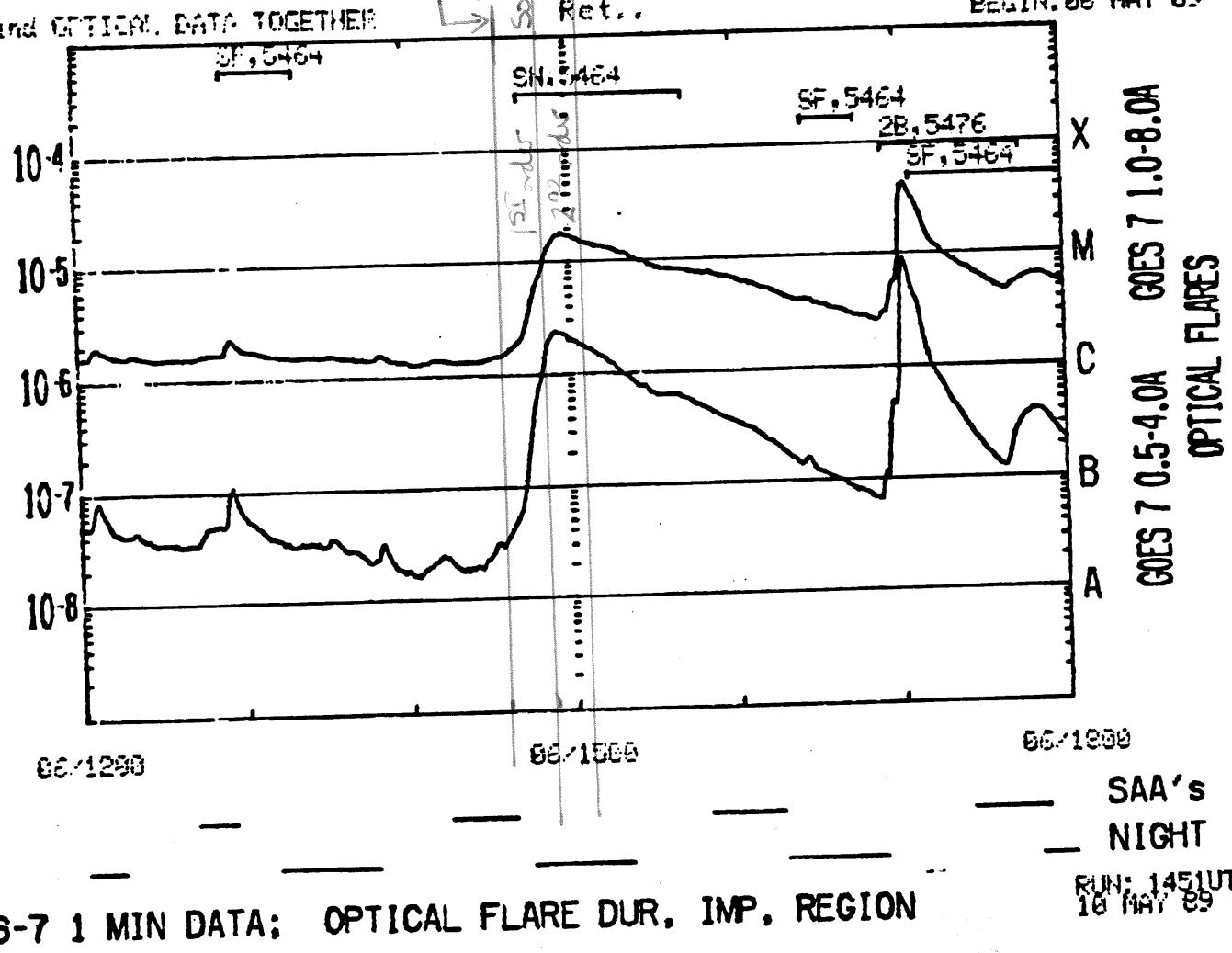
SMM C/P 1989 DOY126 233 +/- 0 degrees



SMM C/P 1989 DOY126 233 +/- 0 degrees



JOIN AND GET YOUR DATA TOGETHER



This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1989	126	15:22:29	2.50	+/- 0.15	233.0	+/- 1.0	SMM
1989	126	15:30:44	2.95	+/- 0.15	233.0	+/- 1.0	SMM
1989	126	15:39:10	3.30	+/- 0.25	233.0	+/- 1.0	SMM

Structure being measured:

Southern Edge of Outer Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.182E+02 +/- 0.884E+00 [minutes]

In more convenient units:

Event began at DOY 126 14:52 +/- 0.884E+00 [minutes]

Origin defined at DOY126 15:10

RADIAL INFORMATION:

RADIAL VELOCITY = 573. +/- 35. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.190E+01 +/- 0.593E-01 [solar radii]
c(2) = 0.494E-01 +/- 0.305E-02 [radii/min]
c(2) = 0.573E+03 +/- 0.354E+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)= 0.92439E-01 [radii] see Bevington pg. 114

error in c(2)= 0.42245E-02 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

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

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 233. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 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 TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 15:22 = 0. km/sec
The TOTAL velocity at 15:22 = 573. km/sec

The TANGENTIAL velocity at 15:30 = 0. km/sec
The TOTAL velocity at 15:30 = 573. km/sec

The TANGENTIAL velocity at 15:39 = 0. km/sec
The TOTAL velocity at 15:39 = 573. 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 = 0.681E+01
Error in time = 0.10086E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.972E-03
Reduced Chi Squared = 0.626E-02
Chi Squared = 0.626E-02
The probability for exceeding chi square = 0.975E+00

The correlation coefficient = 0.997E+00
The probability that no LINEAR correlation exists between the variables = 0.4988E-01
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
1989	126	15:22:29	2.50	+/- 0.15	233.0	+/- 1.0	SMM
1989	126	15:30:44	2.95	+/- 0.15	233.0	+/- 1.0	SMM
1989	126	15:39:10	3.30	+/- 0.25	233.0	+/- 1.0	SMM

Structure being measured:

Southern Edge of Outer Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.716E+01 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 126 15: 3 +/- 0.000E+00 [minutes]

Origin defined at DOY126 15:10

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.302E+00 +/- 0.231E-05 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.162E+01 +/- 0.224E-05 [solar radii]
c(2) = 0.805E-01 +/- 0.240E-06 [radii/min]
c(2) = 0.934E+03 +/- 0.279E-02 [km/sec]
c(3) = -0.782E-03 +/- 0.598E-08 [radii/min**2]
c(3) = -0.302E+00 +/- 0.231E-05 [km/sec**2]

ANGULAR INFORMATION:

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

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 233. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 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 TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 15:22 = 0. km/sec
The TOTAL velocity at 15:22 = 708. km/sec

The TANGENTIAL velocity at 15:30 = 0. km/sec
The TOTAL velocity at 15:30 = 558. km/sec

The TANGENTIAL velocity at 15:39 = 0. km/sec
The TOTAL velocity at 15:39 = 405. km/sec

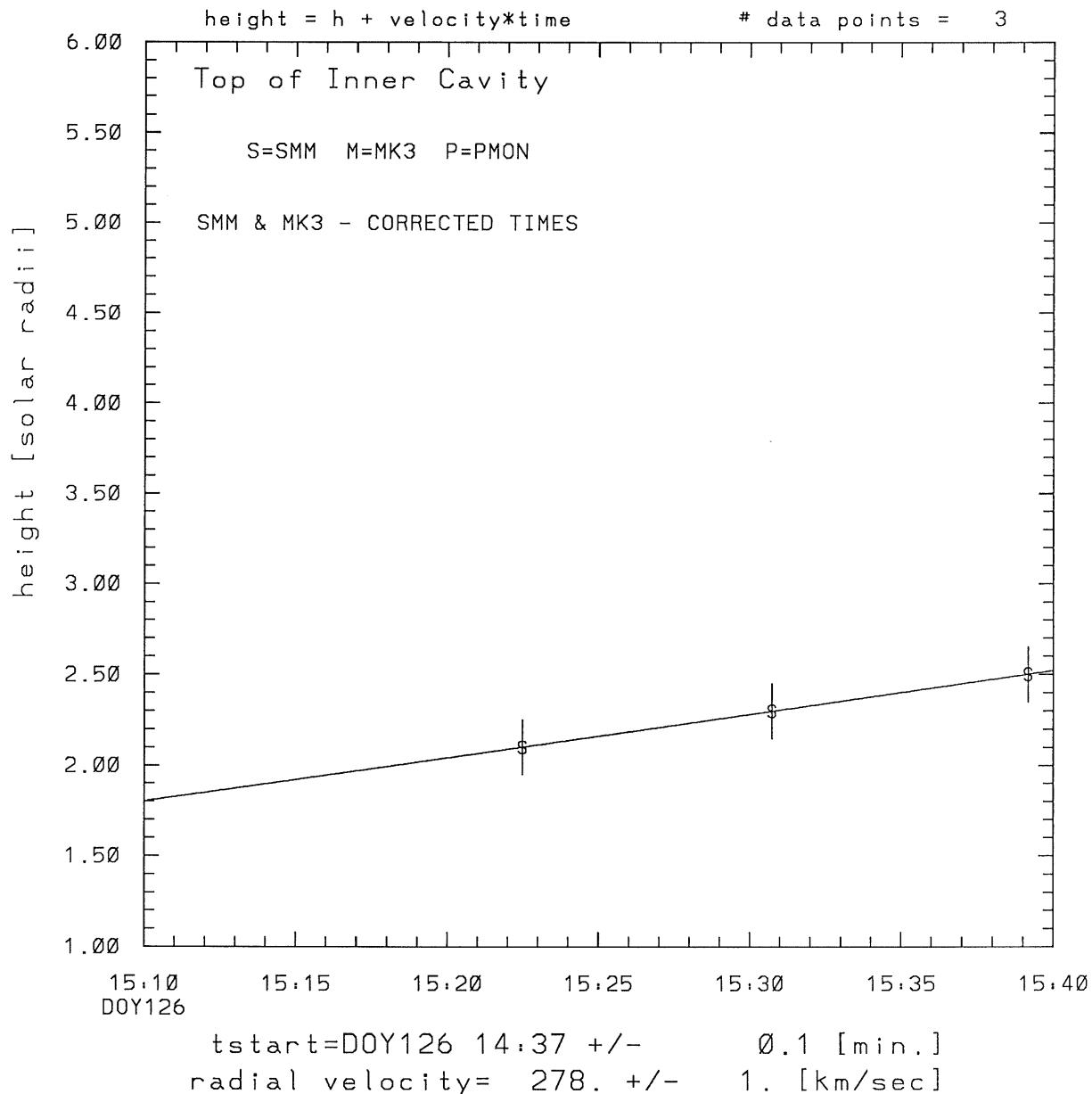
The following info is for estimating goodness of the fit

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

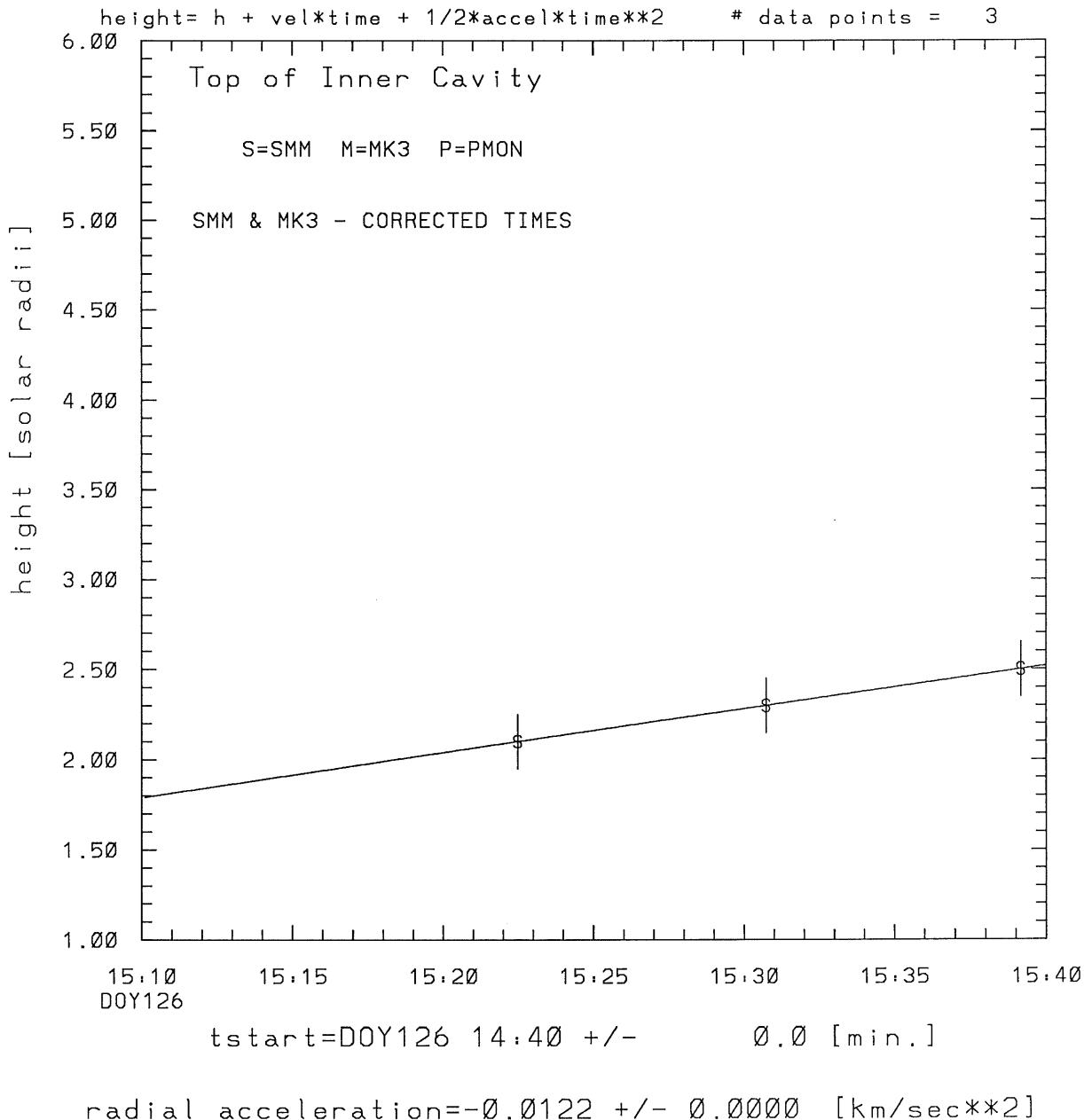
Correlation coefficient is not computable!



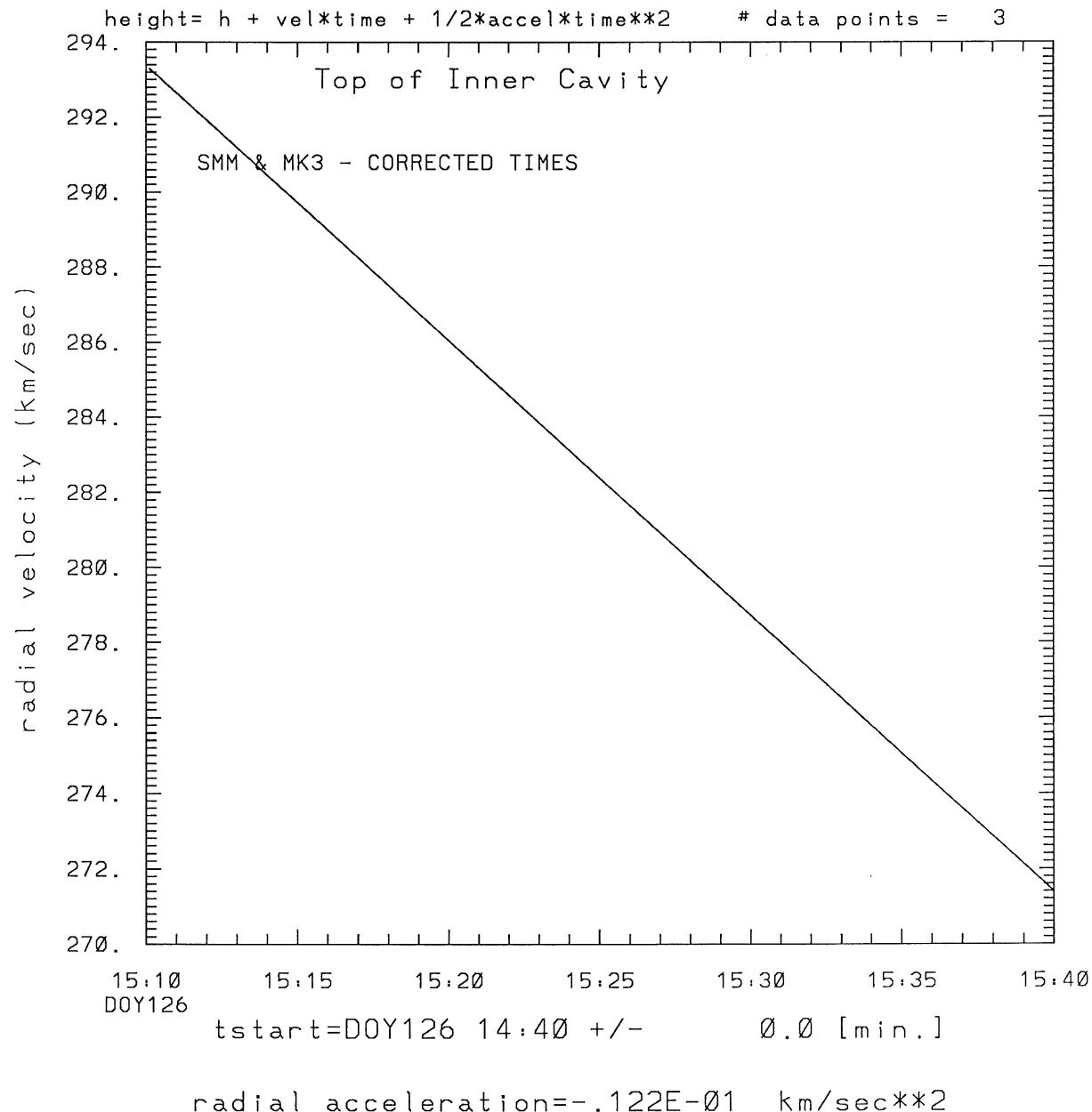
SMM C/P 1989 DOY126 233 +/- 0 degrees



SMM C/P 1989 DOY126 233 +/- 0 degrees



SMM C/P 1989 DOY126 233 +/- 0 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in radii	error in radius	angle	angle	datatype
1989	126	15:22:29	2.10	+/- 0.15	233.0	+/- 1.0			SMM
1989	126	15:30:44	2.30	+/- 0.15	233.0	+/- 1.0			SMM
1989	126	15:39:10	2.50	+/- 0.15	233.0	+/- 1.0			SMM

Structure being measured:

Top of Inner Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.334E+02 +/- 0.903E-01 [minutes]

In more convenient units:

Event began at DOY 126 14:37 +/- 0.903E-01 [minutes]

Origin defined at DOY126 15:10

RADIAL INFORMATION:

RADIAL VELOCITY = 278. +/- 1. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.180E+01 +/- 0.235E-02 [solar radii]

c(2) = 0.240E-01 +/- 0.108E-03 [radii/min]

c(2) = 0.278E+03 +/- 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)= 0.33283E-02 [radii] see Bevington pg. 114

error in c(2)= 0.15210E-03 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

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

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 233. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 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 TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 15:22 = 0. km/sec

The TOTAL velocity at 15:22 = 278. km/sec

The TANGENTIAL velocity at 15:30 = 0. km/sec

The TOTAL velocity at 15:30 = 278. km/sec

The TANGENTIAL velocity at 15:39 = 0. km/sec

The TOTAL velocity at 15:39 = 278. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.20

Standard Deviation in start time measurement = 0.681E+01

Error in time = 0.74841E-01 using best fit method

See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.161E-05

Reduced Chi Squared = 0.642E-05

Chi Squared = 0.642E-05

The probability for exceeding chi square = 0.999E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.4988E-02

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	datatype
1989	126	15:22:29	2.10	+/- 0.15	233.0	+/- 1.0	SMM	
1989	126	15:30:44	2.30	+/- 0.15	233.0	+/- 1.0	SMM	
1989	126	15:39:10	2.50	+/- 0.15	233.0	+/- 1.0	SMM	

Structure being measured:

Top of Inner Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.301E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 126 14:40 +/- 0.000E+00 [minutes]

Origin defined at DOY126 15:10

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.122E-01 +/- 0.162E-05 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.179E+01 +/- 0.169E-05 [solar radii]
c(2) = 0.253E-01 +/- 0.176E-06 [radii/min]
c(2) = 0.293E+03 +/- 0.204E-02 [km/sec]
c(3) = -0.316E-04 +/- 0.420E-08 [radii/min**2]
c(3) = -0.122E-01 +/- 0.162E-05 [km/sec**2]

ANGULAR INFORMATION:

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

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 233. +/- 0. [degrees]
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]
a(2) = 0.000E+00 +/- 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]

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THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:
The TANGENTIAL velocity at 15:22 = 0. km/sec
The TOTAL velocity at 15:22 = 284. km/sec

The TANGENTIAL velocity at 15:30 = 0. km/sec
The TOTAL velocity at 15:30 = 278. km/sec

The TANGENTIAL velocity at 15:39 = 0. km/sec
The TOTAL velocity at 15:39 = 272. 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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