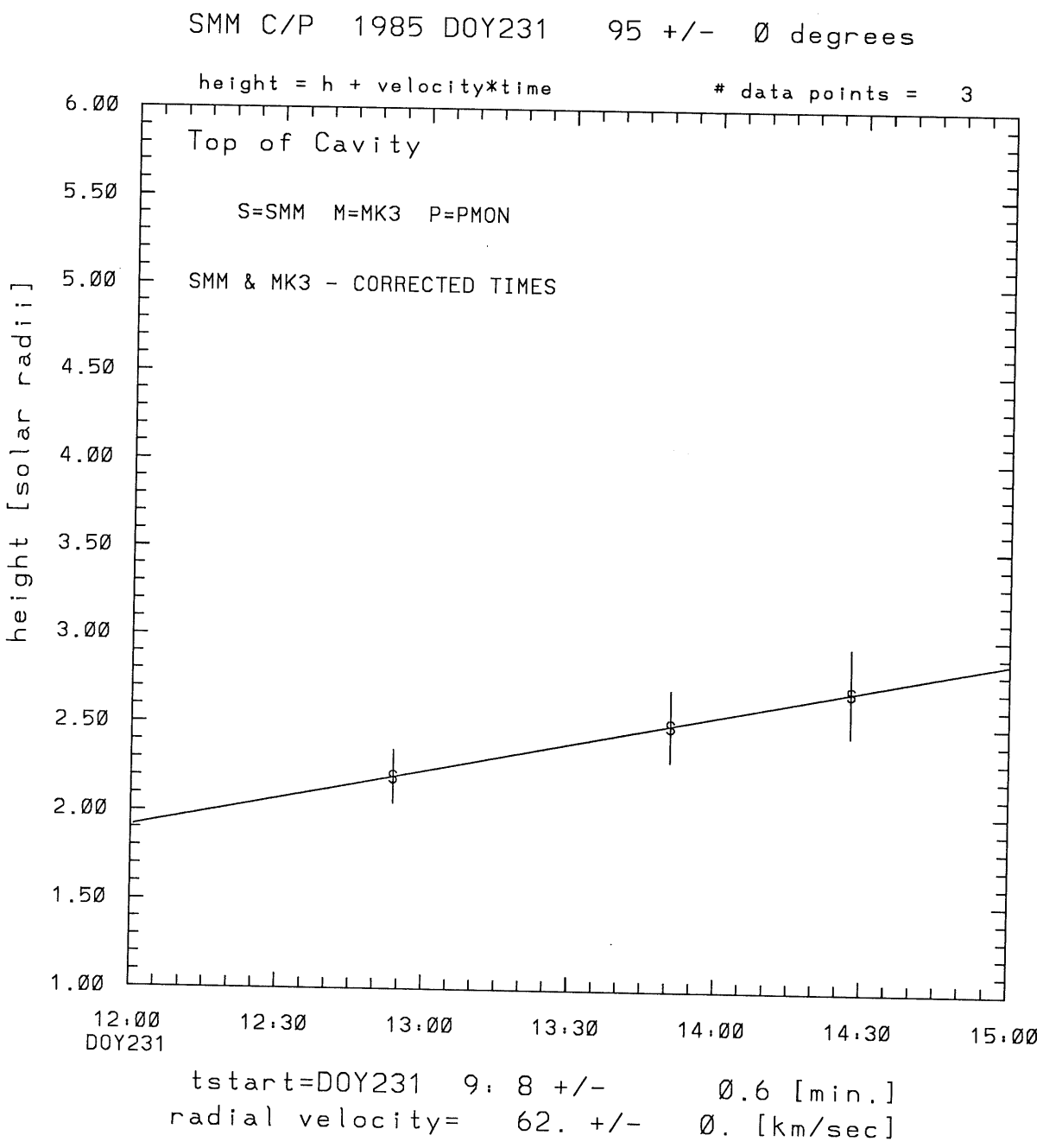
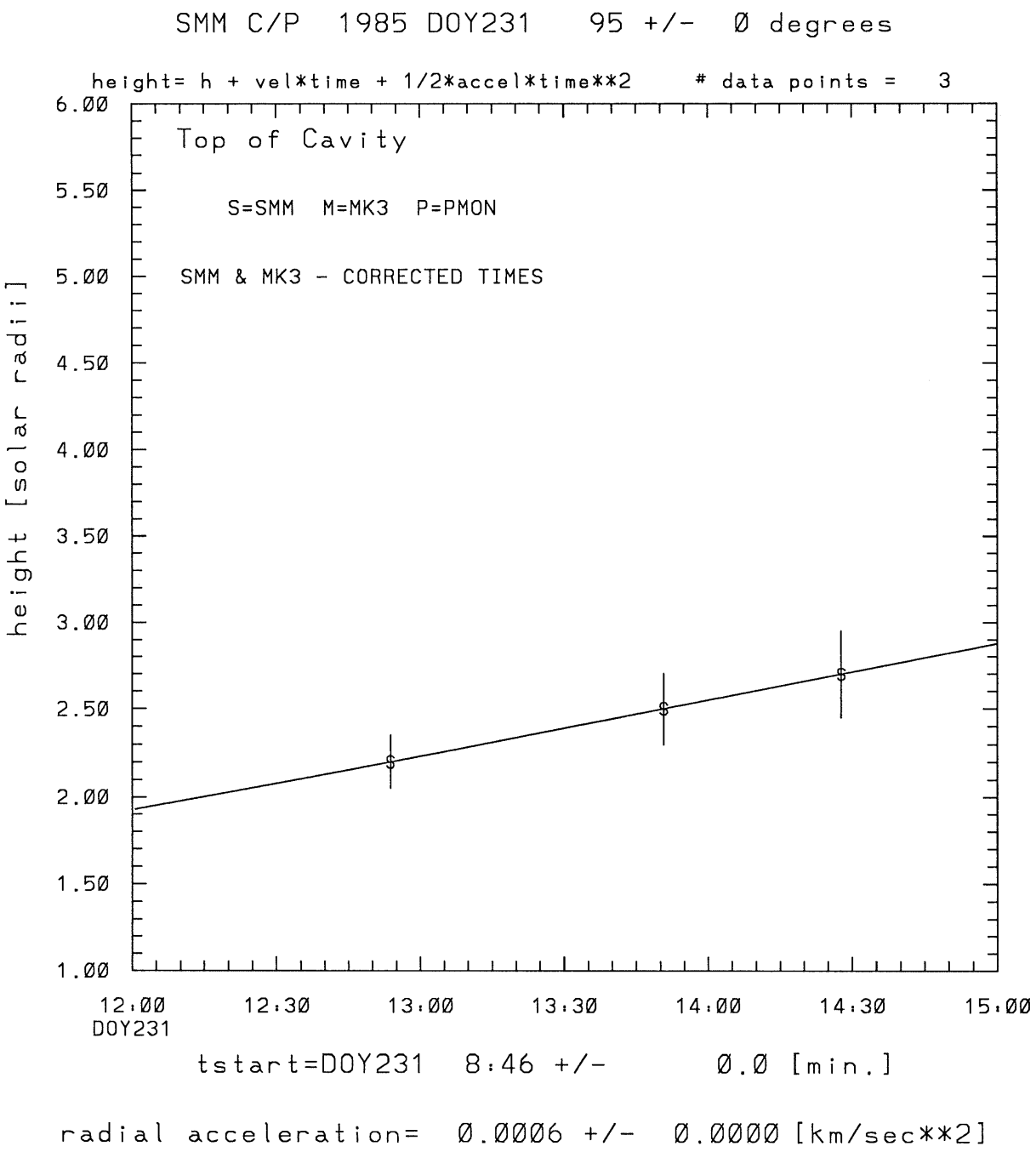
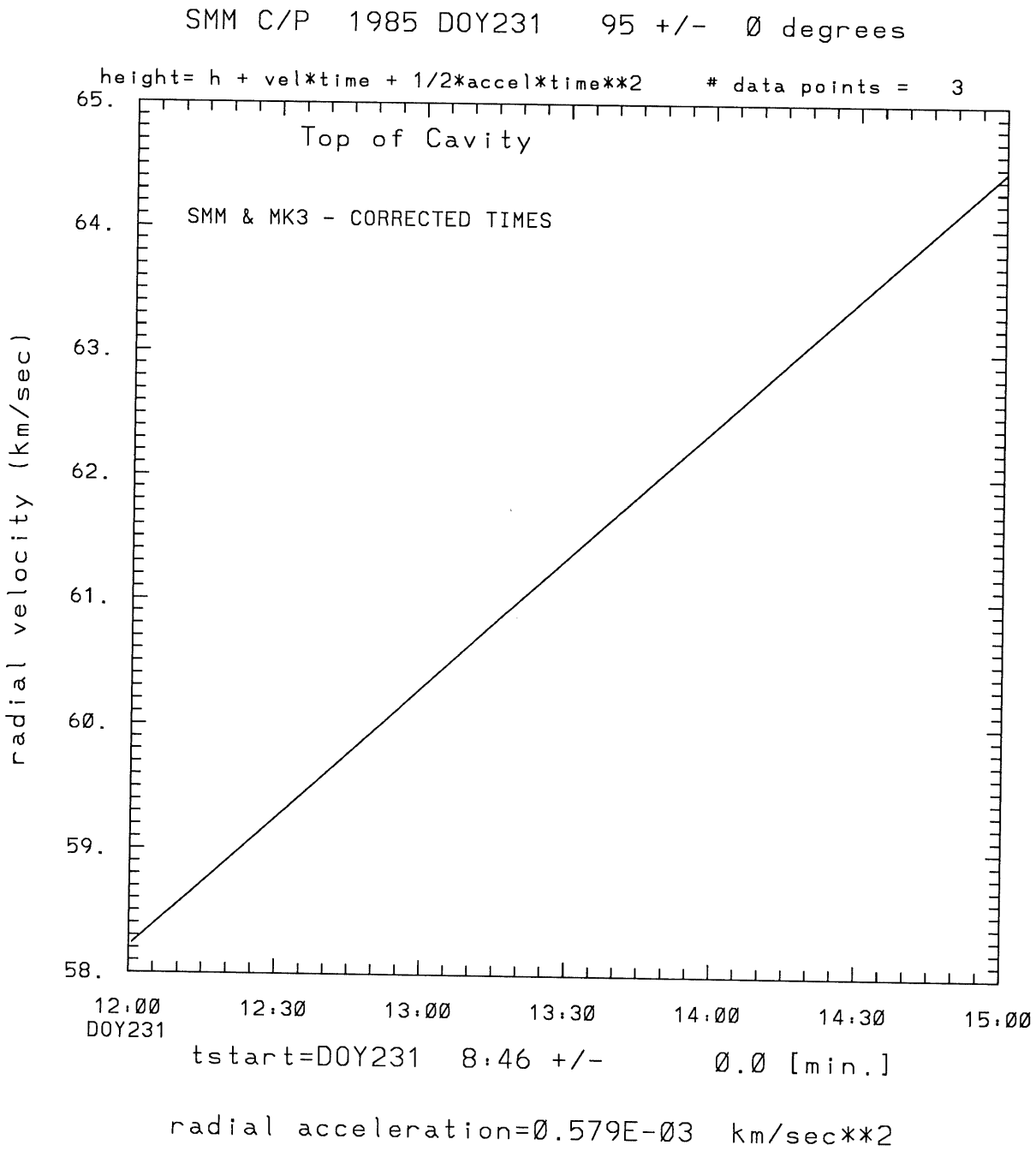

SMM C/P 1985 DOY231 95 +/- Ø degrees
height = h + velocity*time
# data points = 3
Top of Cavity
S=SMM M=MK3 P=PMON
SMM & MK3 - CORRECTED TIMES
height [solar radii]
6.ØØ
5.5Ø
5.ØØ
4.5Ø
4.ØØ
3.5Ø
3.ØØ
2.5Ø
2.ØØ
1.5Ø
1.ØØ
12:ØØ
DOY231
12:3Ø
13:ØØ
13:3Ø
14:ØØ
14:3Ø
15:ØØ
tstart=DOY231 9: 8 +/- Ø.6 [min.]
radial velocity= 62. +/- Ø. [km/sec]


SMM C/P 1985 DOY231 95 +/- Ø degrees
height= h + vel*time + 1/2*accel*time**2 # data points = 3
Top of Cavity
S=SMM M=MK3 P=PMON
SMM & MK3 - CORRECTED TIMES
height [solar radii]
6.ØØ
5.5Ø
5.ØØ
4.5Ø
4.ØØ
3.5Ø
3.ØØ
2.5Ø
2.ØØ
1.5Ø
1.ØØ
12:ØØ
DOY231
12:3Ø
13:ØØ
13:3Ø
14:ØØ
14:3Ø
15:ØØ
tstart=DOY231 8:46 +/- Ø.Ø [min.]
radial acceleration= Ø.ØØØ6 +/- Ø.ØØØØ [km/sec**2]


SMM C/P 1985 DOY231 95 +/- Ø degrees
height= h + vel*time + 1/2*accel*time**2
# data points = 3
Top of Cavity
SMM & MK3 - CORRECTED TIMES
radial velocity (km/sec)
65.
64.
63.
62.
61.
60.
59.
58.
12:00
DOY231
12:30
13:00
13:30
14:00
14:30
15:00
tstart=DOY231 8:46 +/- Ø.Ø [min.]
radial acceleration=Ø.579E-Ø3 km/sec**2

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

*******
INPUT:
*******

| year doy | time | radii | error in radius | angle | error in angle | datatype |
|---|---|---|---|---|---|---|
| 1985 231 | 12:53:44 | 2.20 +/- 0.15 | | 95.0 +/- 0.5 | | SMM |
| 1985 231 | 13:50:43 | 2.50 +/- 0.20 | | 95.0 +/- 0.5 | | SMM |
| 1985 231 | 14:27:43 | 2.70 +/- 0.25 | | 95.0 +/- 0.5 | | SMM |

**********
Structure being measured:
Top of Cavity
**********

********
OUTPUT:
********

START TIME:

Event began at t = 0 + -0.172E+03 +/- 0.574E+00 [minutes]
In more convenient units:
Event began at DOY 231 9: 8 +/- 0.574E+00 [minutes]

Origin defined at DOY231 12: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 62. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.191E+01 +/- 0.237E-02 [solar radii]
c(2) = 0.531E-02 +/- 0.248E-04 [radii/min]
c(2) = 0.615E+02 +/- 0.287E+00 [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)= 0.43934E-02 [radii] see Bevington pg. 114
error in c(2)= 0.39578E-04 [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) = 95. +/- 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 12:53 = 0.000E+00 km/sec
The TOTAL velocity at 12:53 = 62. km/sec

The TANGENTIAL velocity at 13:50 = 0.000E+00 km/sec
The TOTAL velocity at 13:50 = 62. km/sec

The TANGENTIAL velocity at 14:27 = 0.000E+00 km/sec
The TOTAL velocity at 14:27 = 62. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height = 0.25
Standard Deviation in start time measurement = 0.387E+02
Error in time = 0.49948E+00 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.263E-05
Reduced Chi Squared = 0.171E-04
Chi Squared = 0.171E-04
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 = 0.5344E-02
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

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

*******
INPUT:
*******

| year doy | time | radii | error in radius | angle | error in angle | datatype |
|---|---|---|---|---|---|---|
| 1985 231 | 12:53:44 | 2.20 | +/- 0.15 | 95.0 | +/- 0.5 | SMM |
| 1985 231 | 13:50:43 | 2.50 | +/- 0.20 | 95.0 | +/- 0.5 | SMM |
| 1985 231 | 14:27:43 | 2.70 | +/- 0.25 | 95.0 | +/- 0.5 | SMM |

**********
Structure being measured:
Top of Cavity
**********

********
OUTPUT:
********

START TIME:

Event began at t = 0 + -0.196E+03 +/- 0.000E+00 [minutes]
In more convenient units:
Event began at DOY 231 8:46 +/- 0.000E+00 [minutes]

Origin defined at DOY231 12: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.579E-03 +/- 0.180E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.193E+01 +/- 0.374E-05 [solar radii]
c(2) = 0.502E-02 +/- 0.901E-07 [radii/min]
c(2) = 0.582E+02 +/- 0.105E-02 [km/sec]
c(3) = 0.150E-05 +/- 0.467E-09 [radii/min**2]
c(3) = 0.579E-03 +/- 0.180E-06 [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) = 95. +/- 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 12:53 = 0.000E+00 km/sec
The TOTAL velocity at 12:53 = 60. km/sec

The TANGENTIAL velocity at 13:50 = 0.000E+00 km/sec
The TOTAL velocity at 13:50 = 62. km/sec

The TANGENTIAL velocity at 14:27 = 0.000E+00 km/sec
The TOTAL velocity at 14:27 = 63. 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!