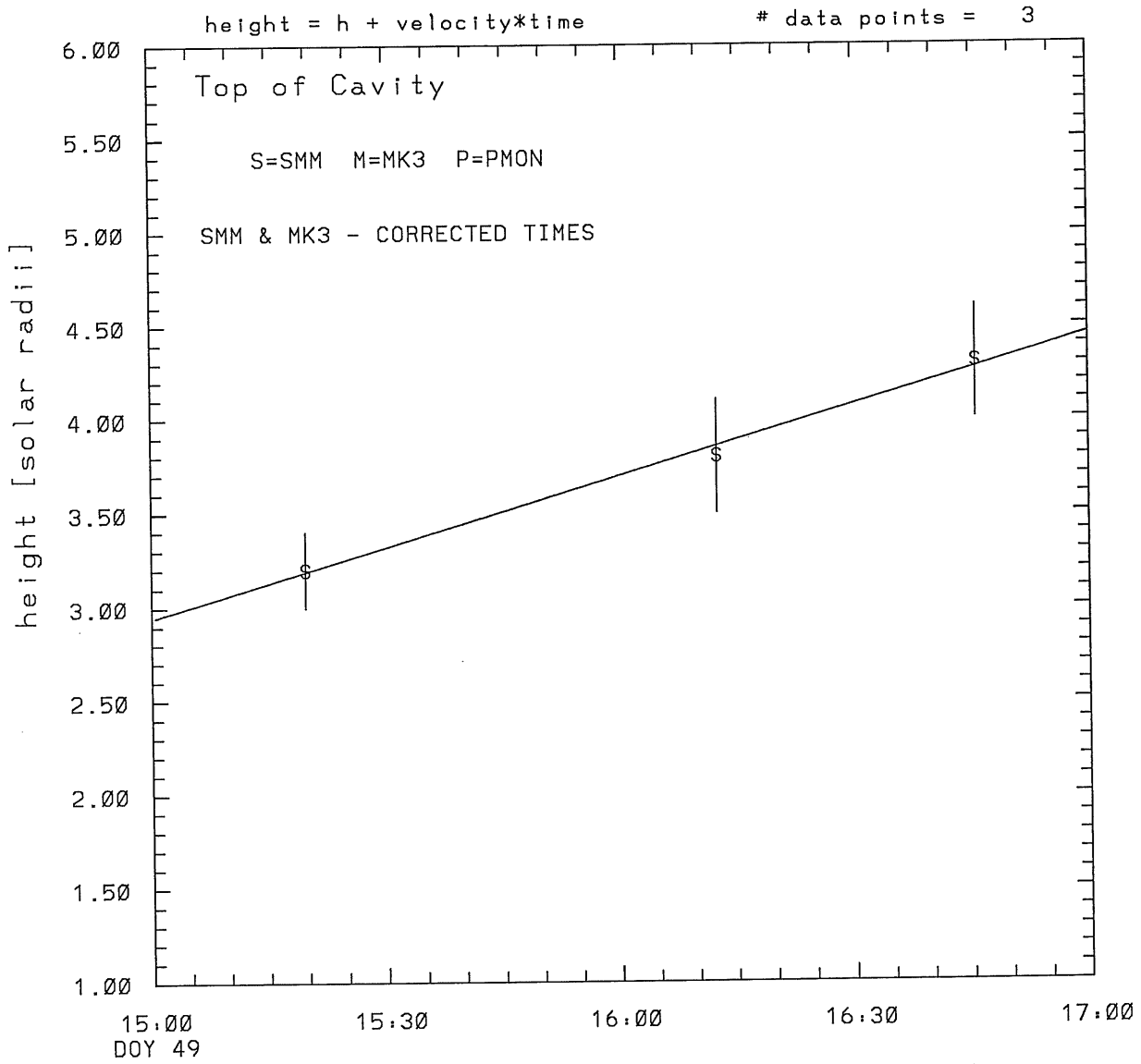
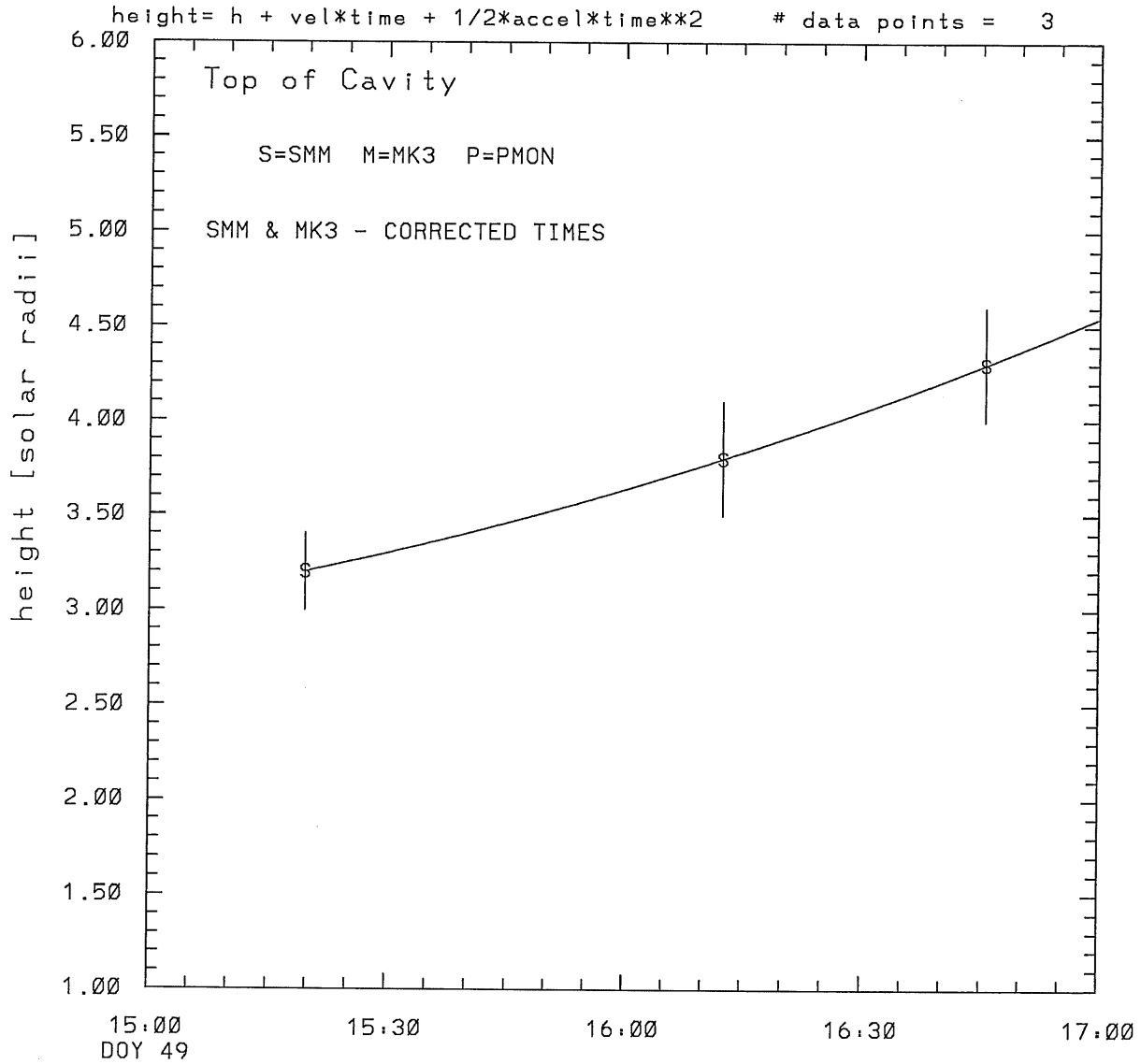


SMM C/P 1988 DOY 49 280 +/- 0 degrees



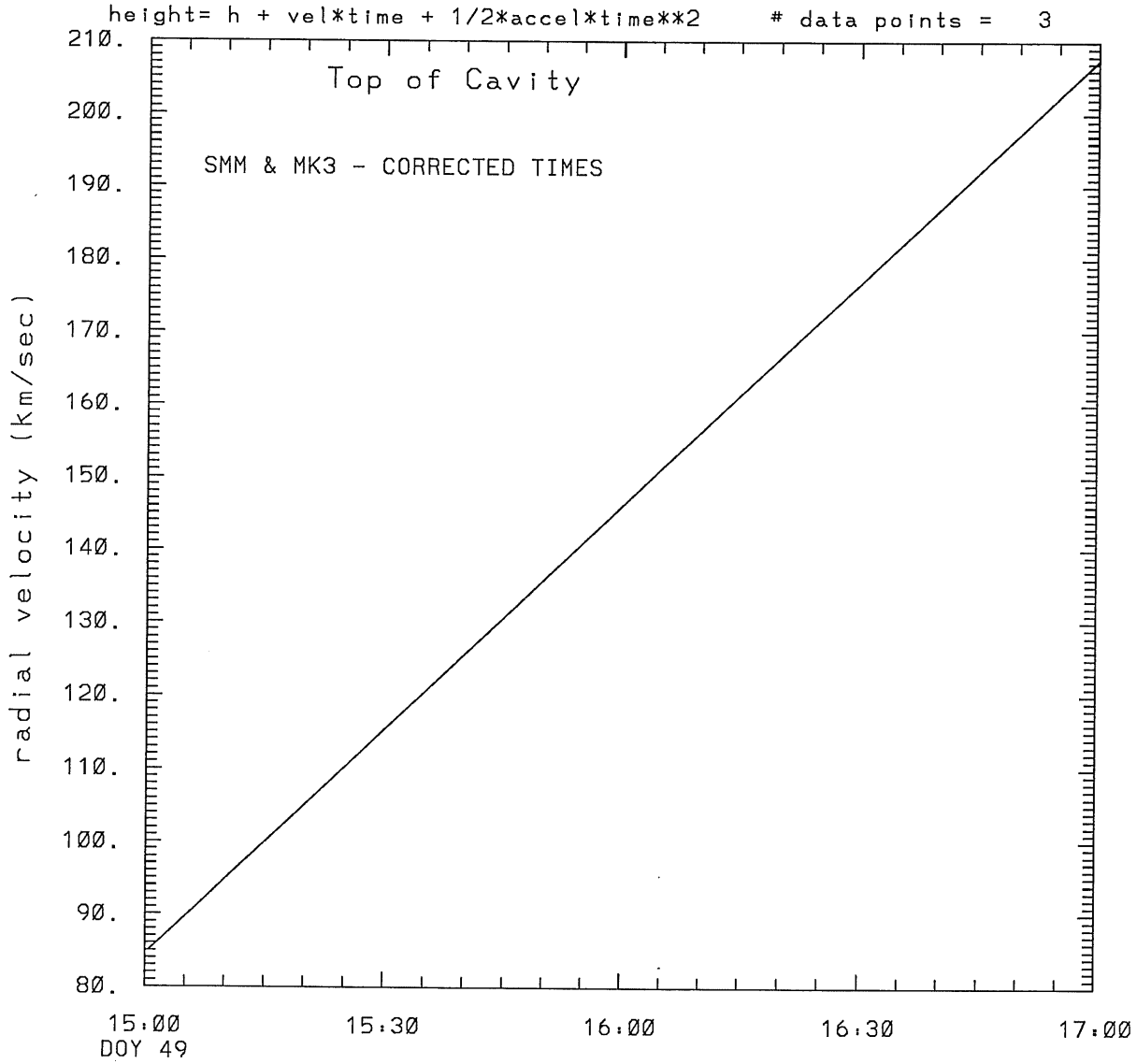
tstart=DOY 49 12:27 +/- 4.7 [min.]  
radial velocity= 146. +/- 7. [km/sec]

SMM C/P 1988 DOY 49 280 +/- 0 degrees



tstart=DOY 49 13:38 from derivative=0  
Event begins at 2.74 Solar Radii  
radial acceleration = 0.0171 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1988 DOY 49 280 +/- 0 degrees



tstart=DOY 49 13:38 from derivative=0  
Event begins at 2.74 Solar Radii  
radial acceleration=0.171E-01 km/sec\*\*2

\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	day	time	radii	error in radius	angle	error in angle	datatype
1988	49	15:19:45	3.20	+/- 0.20	280.0	+/- 0.5	SMM
1988	49	16:12:33	3.80	+/- 0.30	280.0	+/- 0.5	SMM
1988	49	16:45:33	4.30	+/- 0.30	280.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Cavity

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at  $t = 0 + -0.155E+03 +/- 0.468E+01$  [minutes]

In more convenient units:

Event began at DOY 49 12:27 +/- 0.468E+01 [minutes]

Origin defined at DOY 49 15: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 146. +/- 7. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.294E+01 +/- 0.385E-01 [solar radii]  
c(2) = 0.125E-01 +/- 0.603E-03 [radii/min]  
c(2) = 0.146E+03 +/- 0.700E+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)= 0.77246E-01 [radii] see Bevington pg. 114

error in c(2)= 0.10324E-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) = 280. +/- 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 15:19 = 0. km/sec

The TOTAL velocity at 15:19 = 146. km/sec

The TANGENTIAL velocity at 16:12 = 0. km/sec

The TOTAL velocity at 16:12 = 146. km/sec

The TANGENTIAL velocity at 16:45 = 0. km/sec

The TOTAL velocity at 16:45 = 146. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.55

Standard Deviation in start time measurement = 0.353E+02

Error in time = 0.50372E+01 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.145E-02

Reduced Chi Squared = 0.898E-02

Chi Squared = 0.898E-02

The probability for exceeding chi square = 0.970E+00

The correlation coefficient = 0.997E+00

The probability that no LINEAR correlation exists between the variables = 0.5095E-01

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
1988	49	15:19:45	3.20	+/- 0.20	280.0	+/- 0.5	SMM
1988	49	16:12:33	3.80	+/- 0.30	280.0	+/- 0.5	SMM
1988	49	16:45:33	4.30	+/- 0.30	280.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Cavity

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

tstart=DOY 49 13:38 from derivative = 0

Event begins at 2.74 Solar Radii

Origin defined at DOY 49 15: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.171E-01 +/- 0.169E-06 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.304E+01 +/- 0.109E-05 [solar radii]  
c(2) = 0.729E-02 +/- 0.528E-07 [radii/min]  
c(2) = 0.846E+02 +/- 0.612E-03 [km/sec]  
c(3) = 0.441E-04 +/- 0.438E-09 [radii/min\*\*2]  
c(3) = 0.171E-01 +/- 0.169E-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) = 280. +/- 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 15:19 = 0. km/sec

The TOTAL velocity at 15:19 = 105. km/sec

The TANGENTIAL velocity at 16:12 = 0. km/sec

The TOTAL velocity at 16:12 = 159. km/sec

The TANGENTIAL velocity at 16:45 = 0. km/sec

The TOTAL velocity at 16:45 = 193. 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!