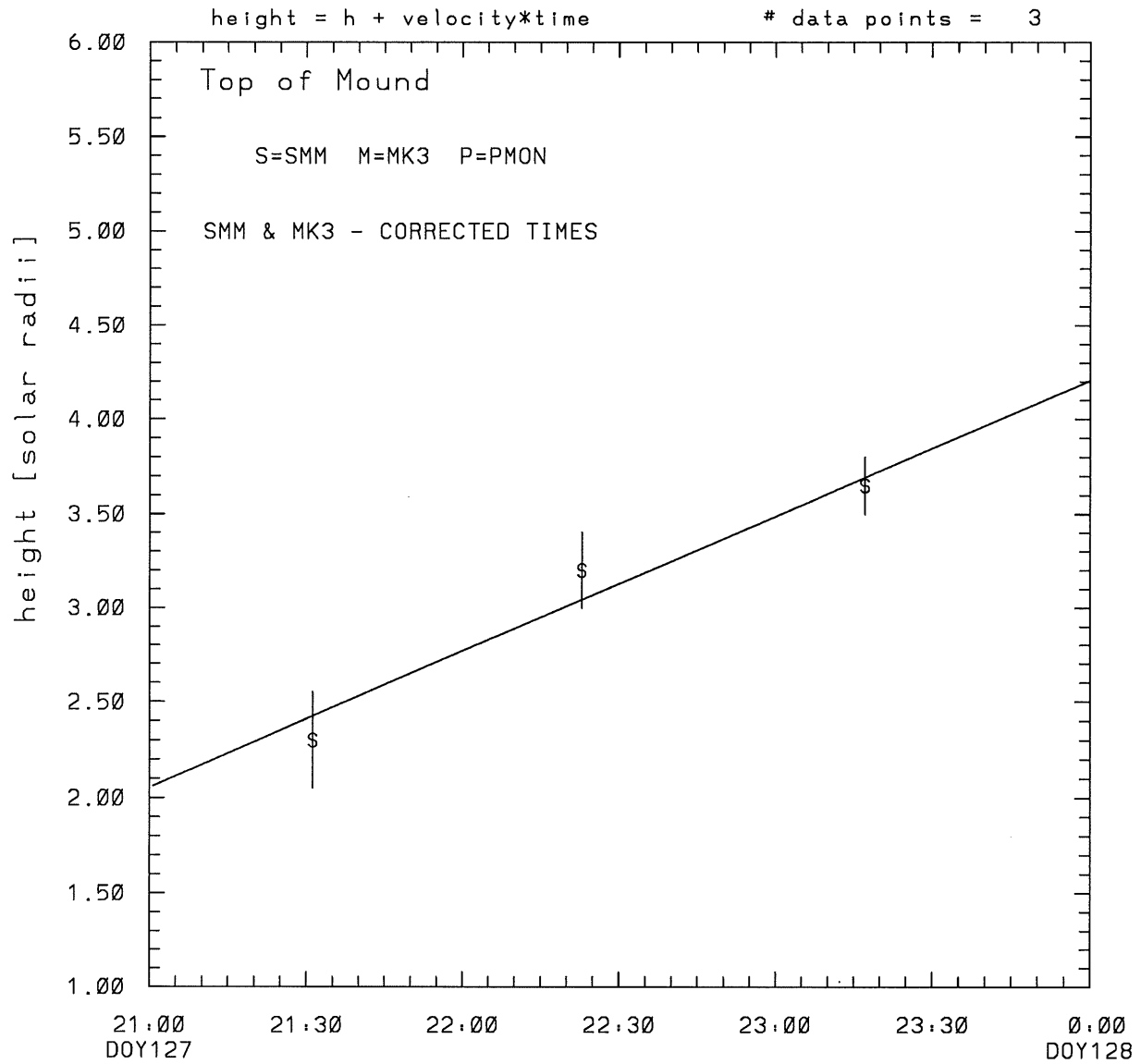
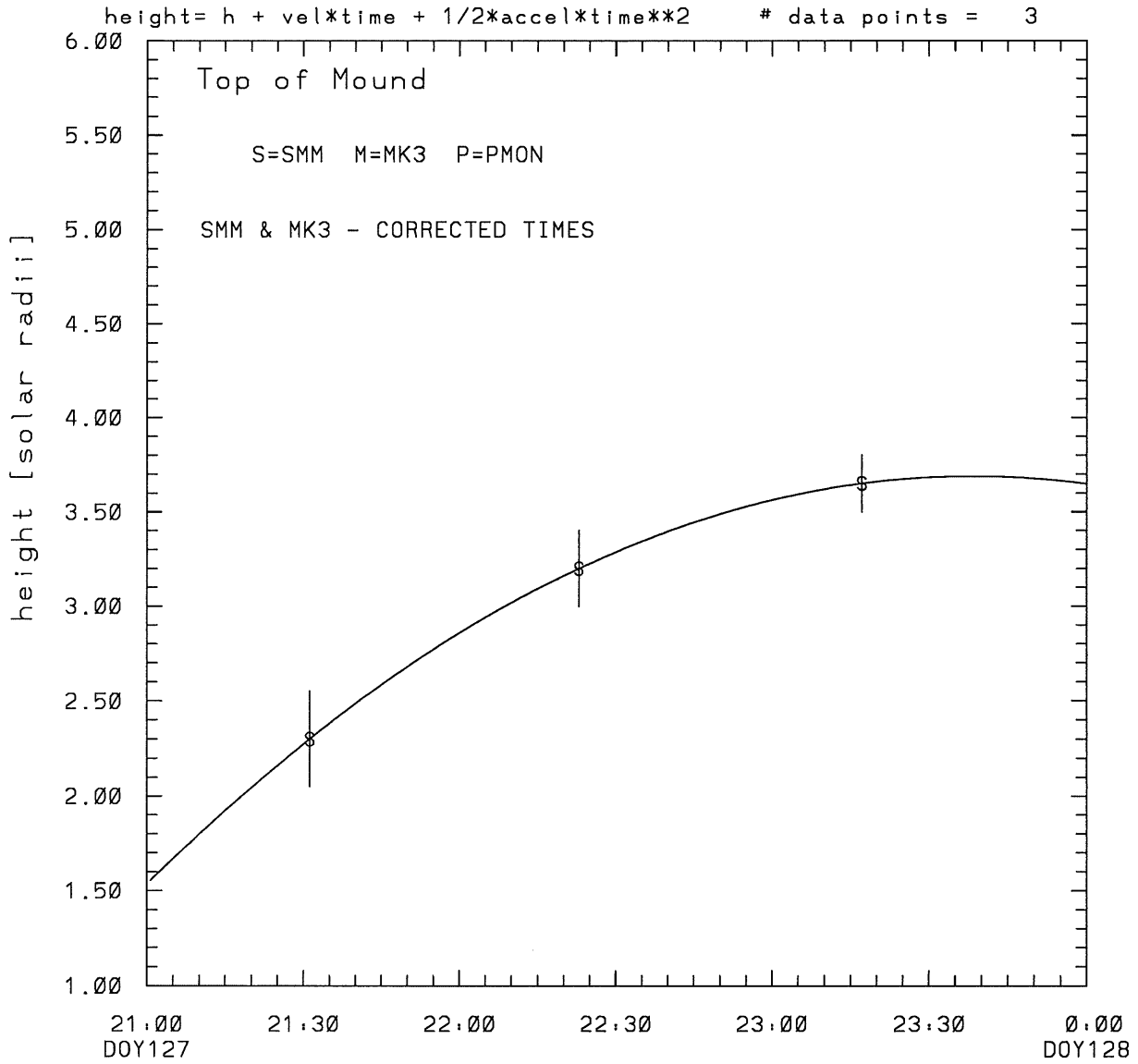


SMM C/P 1986 DOY127 290 +/- 0 degrees



tstart=DOY127 19:34 +/- 10.9 [min.]  
radial velocity= 139. +/- 21. [km/sec]

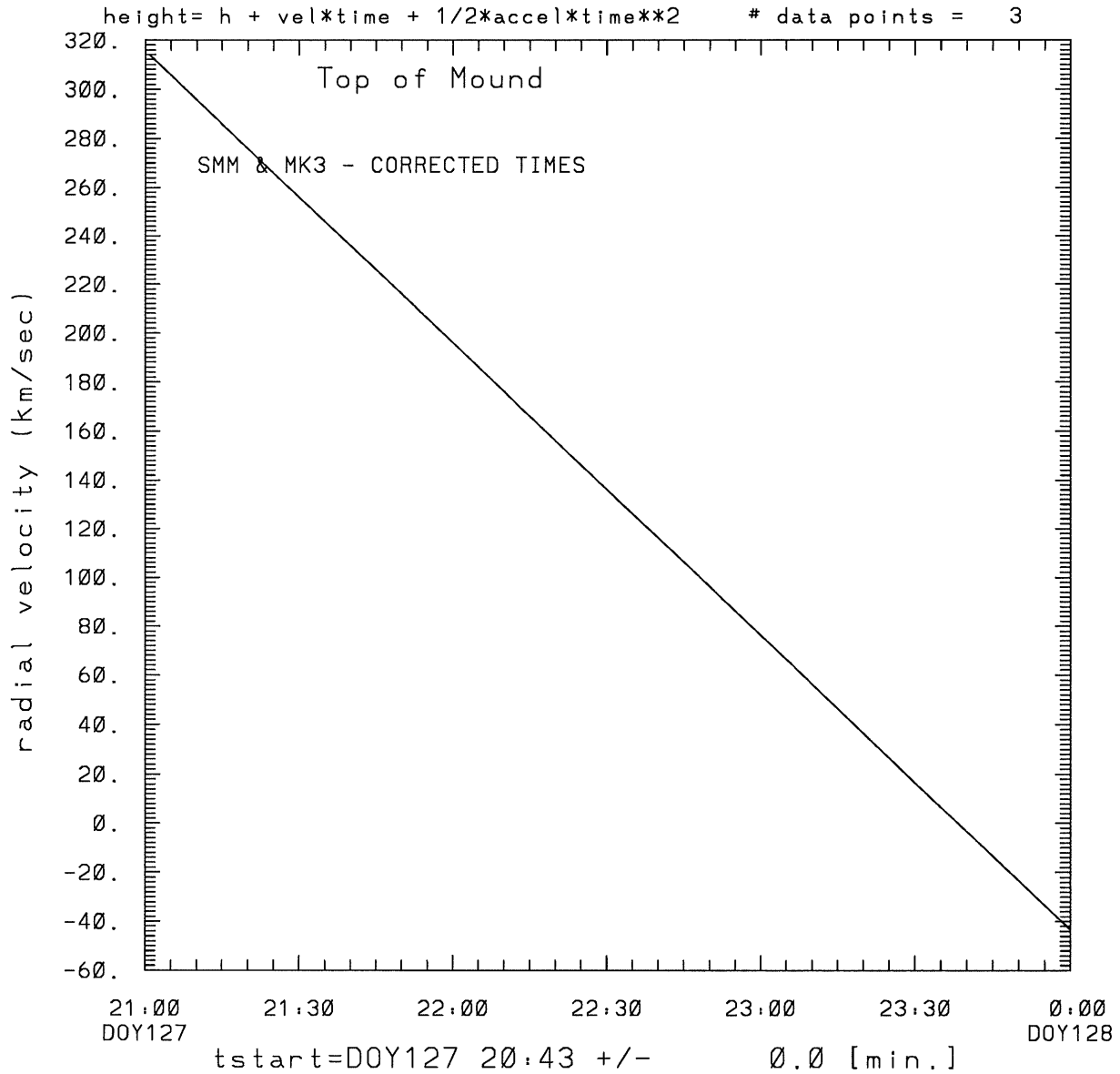
SMM C/P 1986 DOY127 290 +/- 0 degrees



tstart=DOY127 20:43 +/- 0.0 [min.]

radial acceleration = -0.0332 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1986 DOY127 290 +/- 0 degrees



radial acceleration=-.332E-01 km/sec\*\*2

\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	day	time	radii	error in radius	angle	error in angle	datatype
1986	127	21:31:12	2.30	+/- 0.25	290.0	+/- 0.5	SMM
1986	127	22:22:55	3.20	+/- 0.20	290.0	+/- 1.0	SMM
1986	127	23:17:12	3.65	+/- 0.15	290.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Mound

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at  $t = 0 + -0.880E+02 +/- 0.109E+02$  [minutes]

In more convenient units:

Event began at DOY 127 19:34 +/- 0.109E+02 [minutes]

Origin defined at DOY127 21: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 139. +/- 21. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

$c(1) = 0.205E+01 +/- 0.198E+00$  [solar radii]

$c(2) = 0.120E-01 +/- 0.181E-02$  [radii/min]

$c(2) = 0.139E+03 +/- 0.210E+02$  [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  $c(1) = 0.25759E+00$  [radii] see Bevington pg. 114

error in  $c(2) = 0.27319E-02$  [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) = 290. +/- 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 21:31 = 0.000E+00 km/sec

The TOTAL velocity at 21:31 = 139. km/sec

The TANGENTIAL velocity at 22:22 = 0.000E+00 km/sec

The TOTAL velocity at 22:22 = 139. km/sec

The TANGENTIAL velocity at 23:17 = 0.000E+00 km/sec

The TOTAL velocity at 23:17 = 139. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.69

Standard Deviation in start time measurement = 0.433E+02

Error in time = 0.17122E+02 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.166E-01

Reduced Chi Squared = 0.701E-01

Chi Squared = 0.701E-01

The probability for exceeding chi square = 0.898E+00

The correlation coefficient = 0.979E+00

The probability that no LINEAR correlation exists between the variables = 0.1299E+00

SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

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

\*\*\*\*\*  
INPUT:  
\*\*\*\*\*

year	day	time	radii	error in radius	angle	error in angle	datatype
1986	127	21:31:12	2.30	+/- 0.25	290.0	+/- 0.5	SMM
1986	127	22:22:55	3.20	+/- 0.20	290.0	+/- 1.0	SMM
1986	127	23:17:12	3.65	+/- 0.15	290.0	+/- 1.0	SMM

\*\*\*\*\*  
Structure being measured:  
Top of Mound  
\*\*\*\*\*

\*\*\*\*\*  
OUTPUT:  
\*\*\*\*\*

START TIME:

Event began at  $t = 0 + -0.186E+02 +/- 0.000E+00$  [minutes]

In more convenient units:

Event began at DOY 127 20:43 +/- 0.000E+00 [minutes]

Origin defined at DOY127 21: 0

RADIAL INFORMATION:

RADIAL ACCELERATION =  $-0.332E-01 +/- 0.998E-07$  km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =  $0.153E+01 +/- 0.177E-05$  [solar radii]  
c(2) =  $0.272E-01 +/- 0.464E-07$  [radii/min]  
c(2) =  $0.316E+03 +/- 0.538E-03$  [km/sec]  
c(3) =  $-0.860E-04 +/- 0.258E-09$  [radii/min\*\*2]  
c(3) =  $-0.332E-01 +/- 0.998E-07$  [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) =  $290. +/- 0.$  [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]

$$a(3) = 0.000E+00 \pm 0.000E+00 \text{ [rad/sec**2]}$$

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 21:31 = 0.000E+00 km/sec

The TOTAL velocity at 21:31 = 253. km/sec

The TANGENTIAL velocity at 22:22 = 0.000E+00 km/sec

The TOTAL velocity at 22:22 = 150. km/sec

The TANGENTIAL velocity at 23:17 = 0.000E+00 km/sec

The TOTAL velocity at 23:17 = 42. 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!