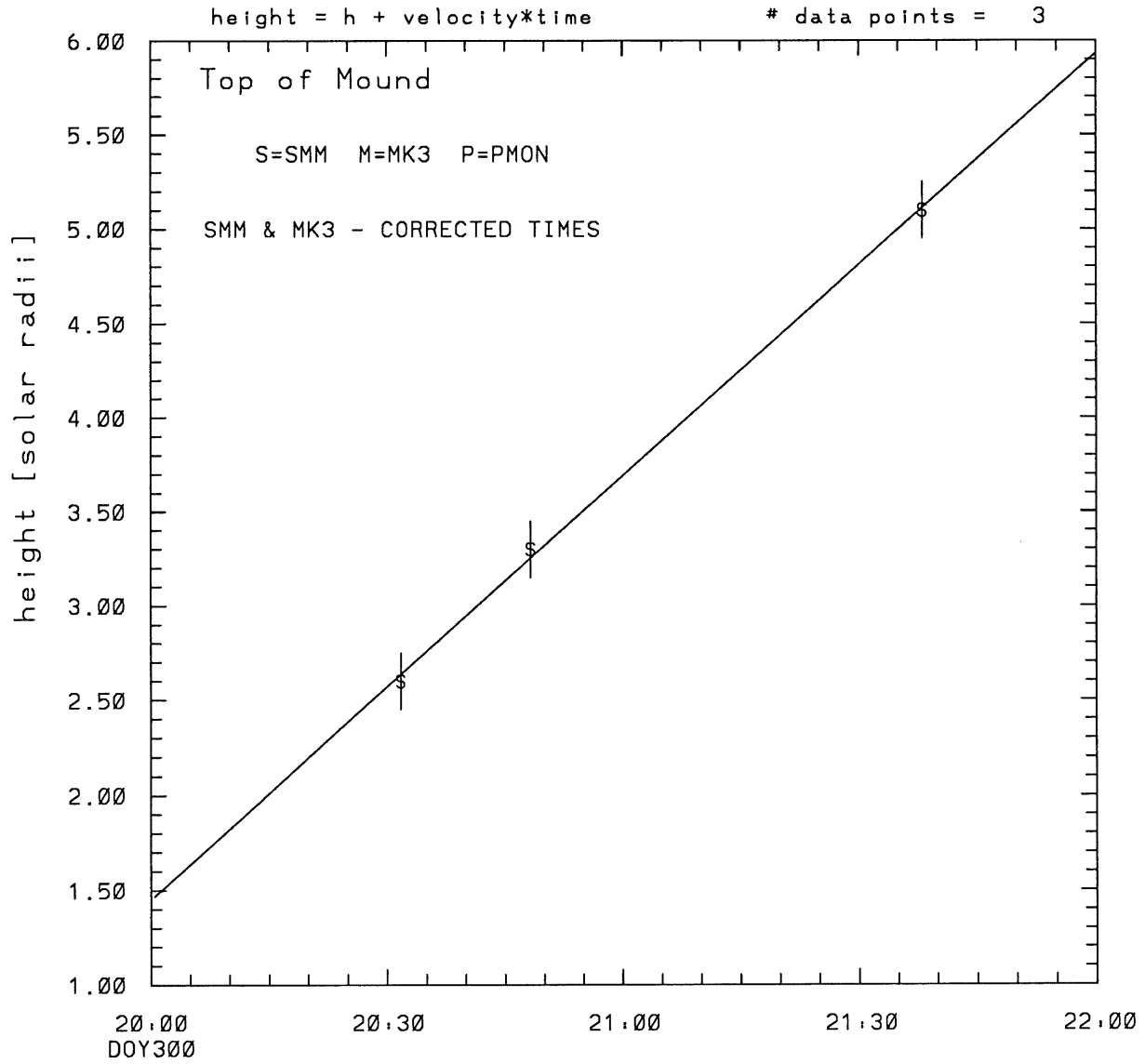
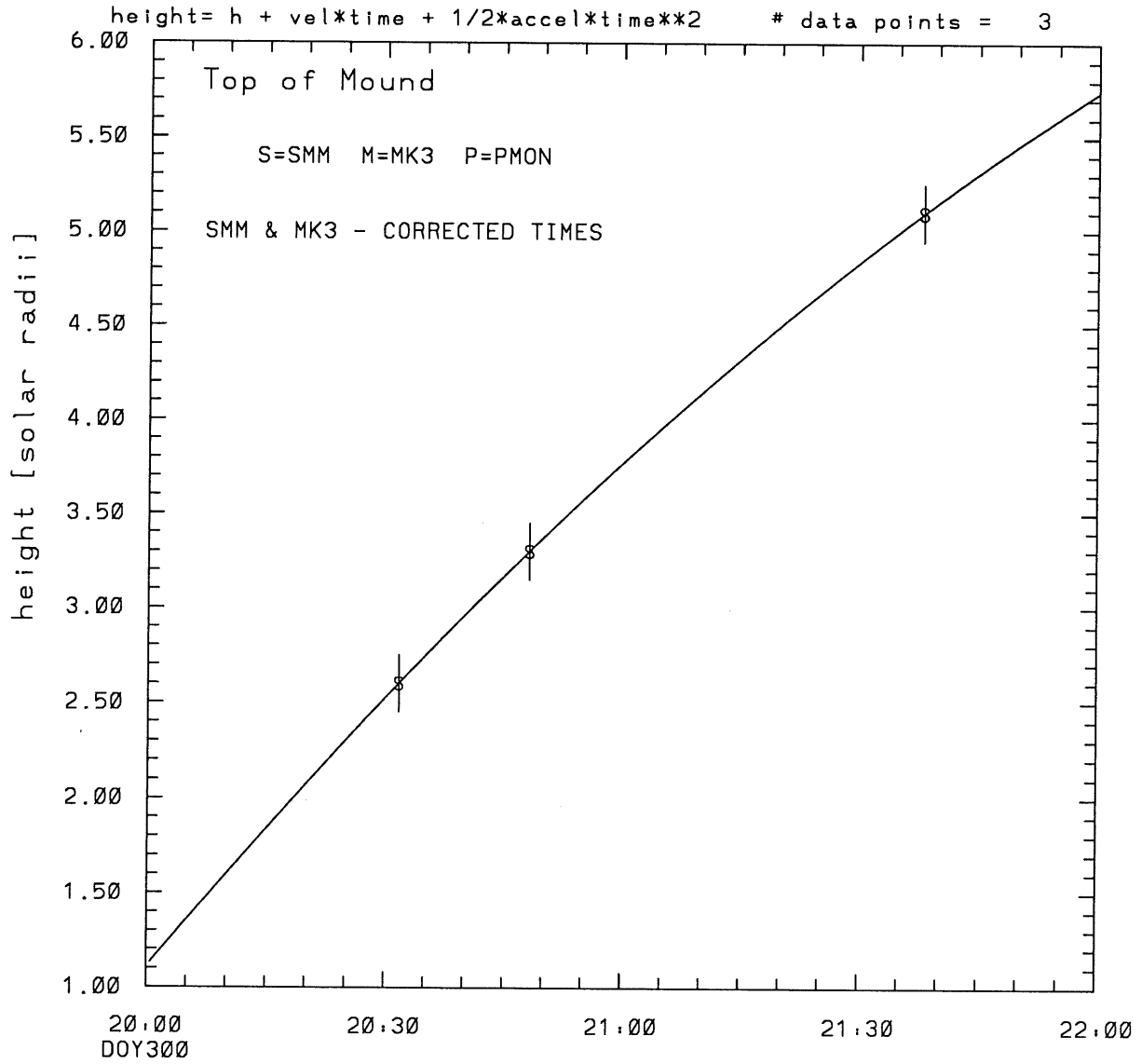


SMM C/P 1989 DOY300 270 +/- 0 degrees



tstart=DOY300 19:48 +/- 0.4 [min.]  
radial velocity= 433. +/- 10. [km/sec]

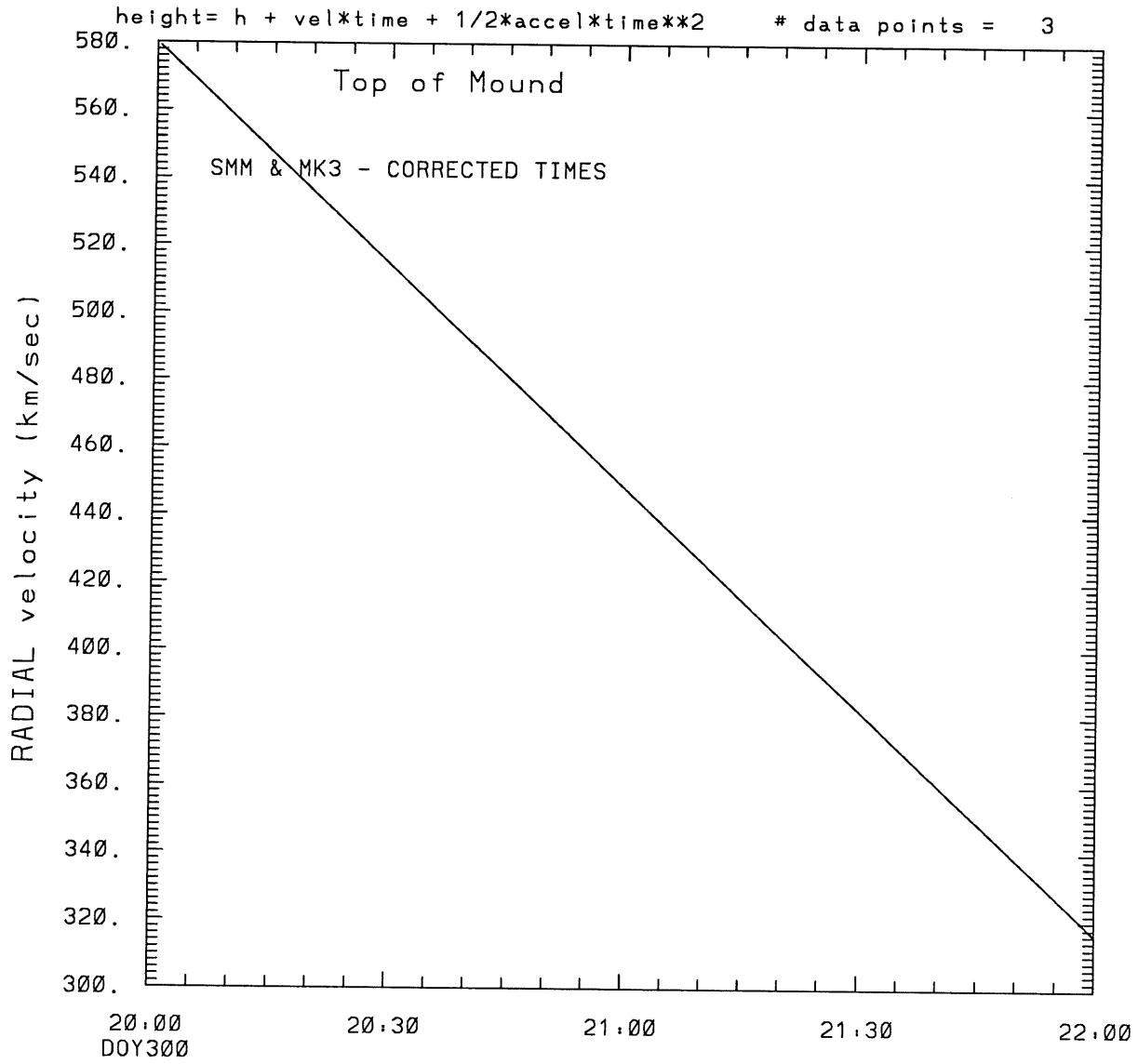
SMM C/P 1989 DOY300 270 +/- 0 degrees



tstart=DOY300 19:58 +/- 0.0 [min.]

radial acceleration = -0.0366 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1989 DOY300 270 +/- 0 degrees



tstart=DOY300 19:58 +/- 0.0 [min.]

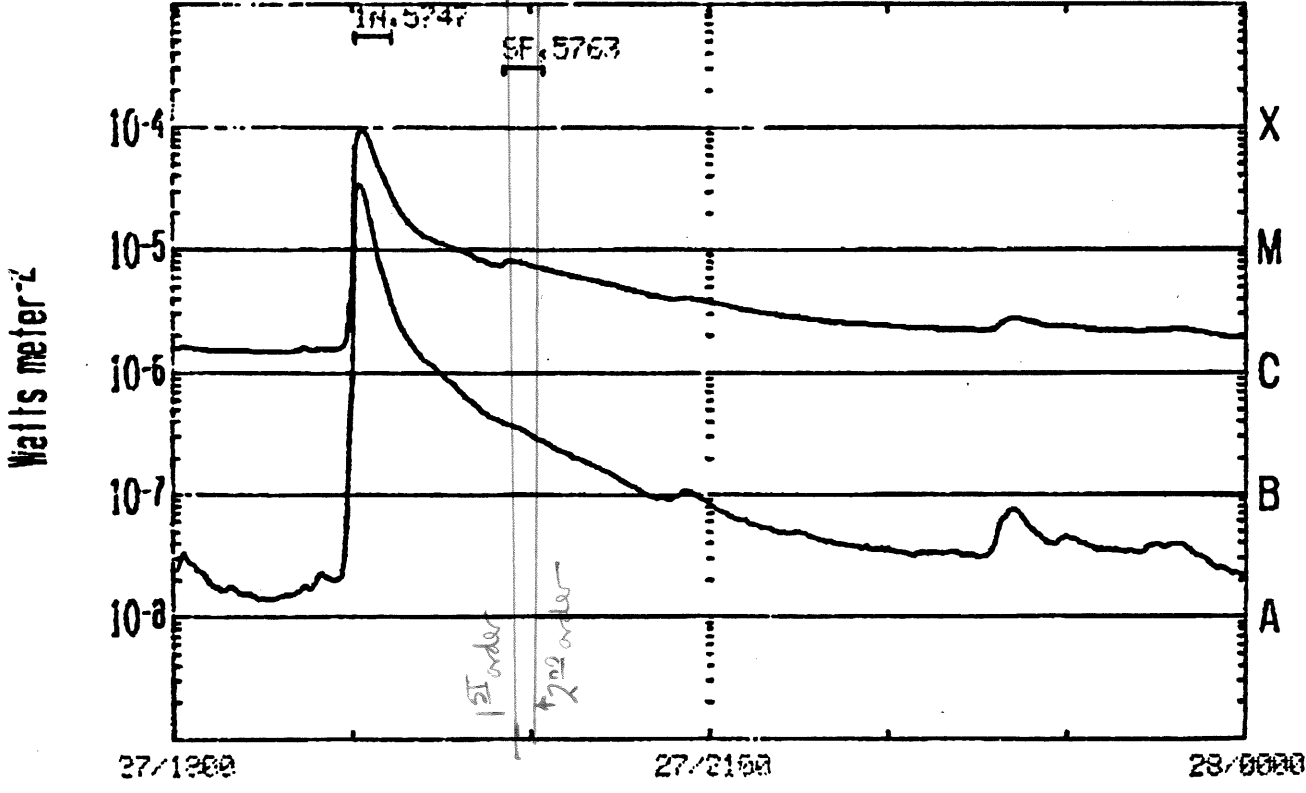
radial acceleration=-.366E-01 km/sec\*\*2

Top of Front, center = 263°  
 [19:53] 1st order  
 [20:07] 2nd order  
 1989 Day 300

SAF and OPTICAL DATA TOGETHER

STOP  
 Rel..

BEGIN: 27 OCT 89



GOES 6 0.5-4.0A GOES 6 1.0-8.0A  
 OPTICAL FLARES

GOES-6 1 MIN DATA; OPTICAL FLARE DUR, IMP, REGION

SAA's  
 NIGHT  
 RUN: 2958UT  
 1 NOV 89

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

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

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	300	20:31:46	2.60 +/-	0.15	270.0 +/-	0.5	SMM
1989	300	20:48:16	3.30 +/-	0.15	270.0 +/-	1.0	SMM
1989	300	21:38: 4	5.10 +/-	0.15	270.0 +/-	1.0	SMM

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

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

START TIME:

Event began at  $t = 0 + -0.120E+02 +/- 0.423E+00$  [minutes]  
In more convenient units:  
Event began at DOY 300 19:48 +/- 0.423E+00 [minutes]

Origin defined at DOY300 20: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 433. +/- 10. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.145E+01 +/- 0.581E-01 [solar radii]  
c(2) = 0.373E-01 +/- 0.884E-03 [radii/min]  
c(2) = 0.433E+03 +/- 0.103E+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)= 0.82167E-01 [radii] see Bevington pg. 114  
error in c(2)= 0.12503E-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) = 270. +/- 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 RADIAL velocity at 20:31 = 433. km/sec

The RADIAL velocity at 20:48 = 433. km/sec

The RADIAL velocity at 21:38 = 433. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height = 1.29  
Standard Deviation in start time measurement = 0.282E+02  
Error in time = 0.16343E+01 using best fit method  
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.186E-02  
Reduced Chi Squared = 0.630E-02  
Chi Squared = 0.630E-02  
The probability for exceeding chi square = 0.966E+00

The correlation coefficient = 0.999E+00  
The probability that no LINEAR correlation exists between the variables = 0.2129)  
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

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

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

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	300	20:31:46	2.60 +/-	0.15	270.0 +/-	0.5	SMM
1989	300	20:48:16	3.30 +/-	0.15	270.0 +/-	1.0	SMM
1989	300	21:38: 4	5.10 +/-	0.15	270.0 +/-	1.0	SMM

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

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

START TIME:

Event began at  $t = 0 + -0.213E+01 +/- 0.000E+00$  [minutes]  
In more convenient units:  
Event began at DOY 300 19:58 +/- 0.000E+00 [minutes]

Origin defined at DOY300 20: 0

RADIAL INFORMATION:

RADIAL ACCELERATION =  $-0.366E-01 +/- 0.202E-06$  km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.111E+01 +/- 0.195E-05 [solar radii]  
c(2) = 0.500E-01 +/- 0.703E-07 [radii/min]  
c(2) = 0.580E+03 +/- 0.815E-03 [km/sec]  
c(3) = -0.947E-04 +/- 0.523E-09 [radii/min\*\*2]  
c(3) = -0.366E-01 +/- 0.202E-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) = 270. +/- 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 RADIAL velocity at 20:31 = 510. km/sec

The RADIAL velocity at 20:48 = 474. km/sec

The RADIAL velocity at 21:38 = 365. 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!