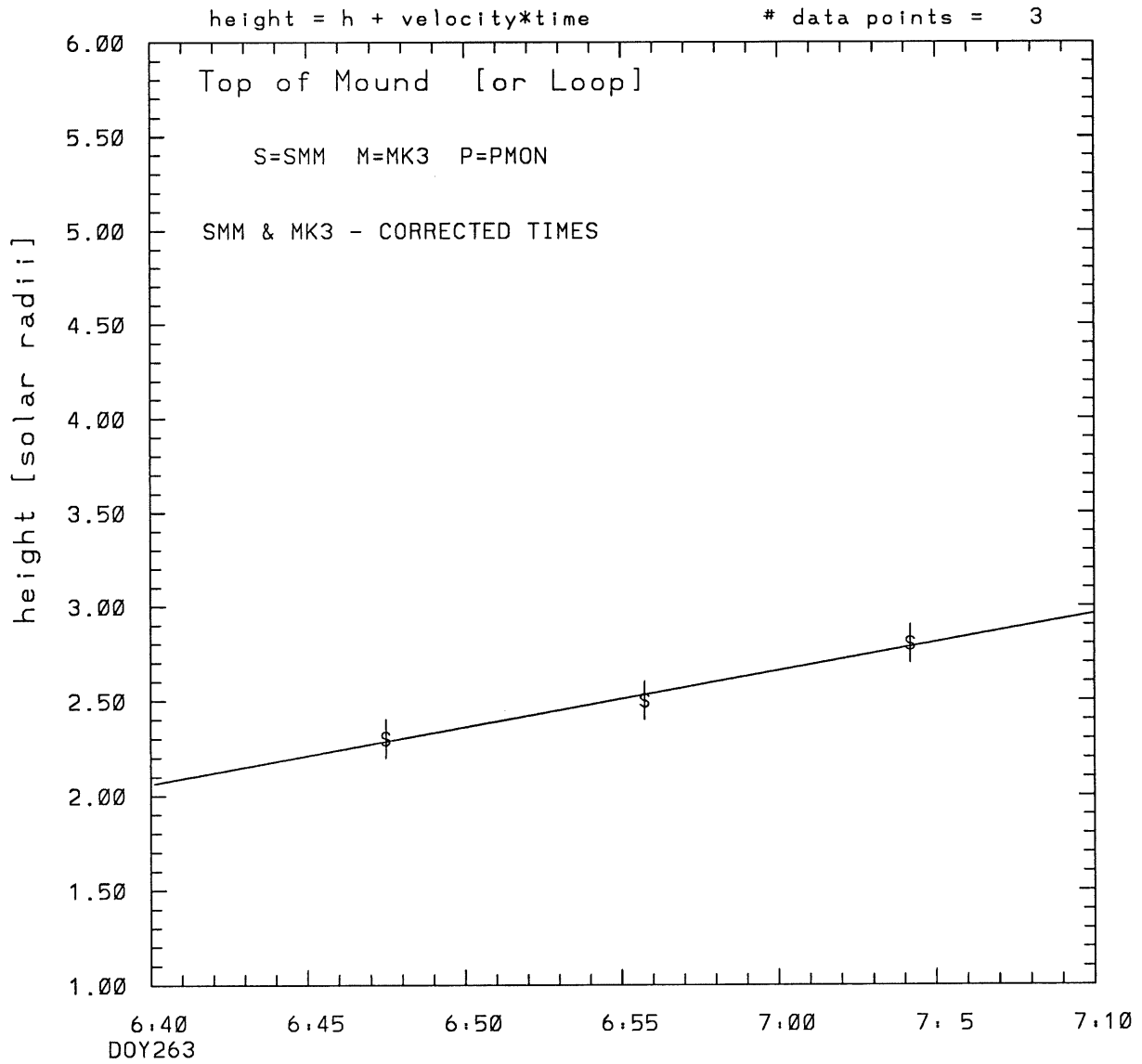
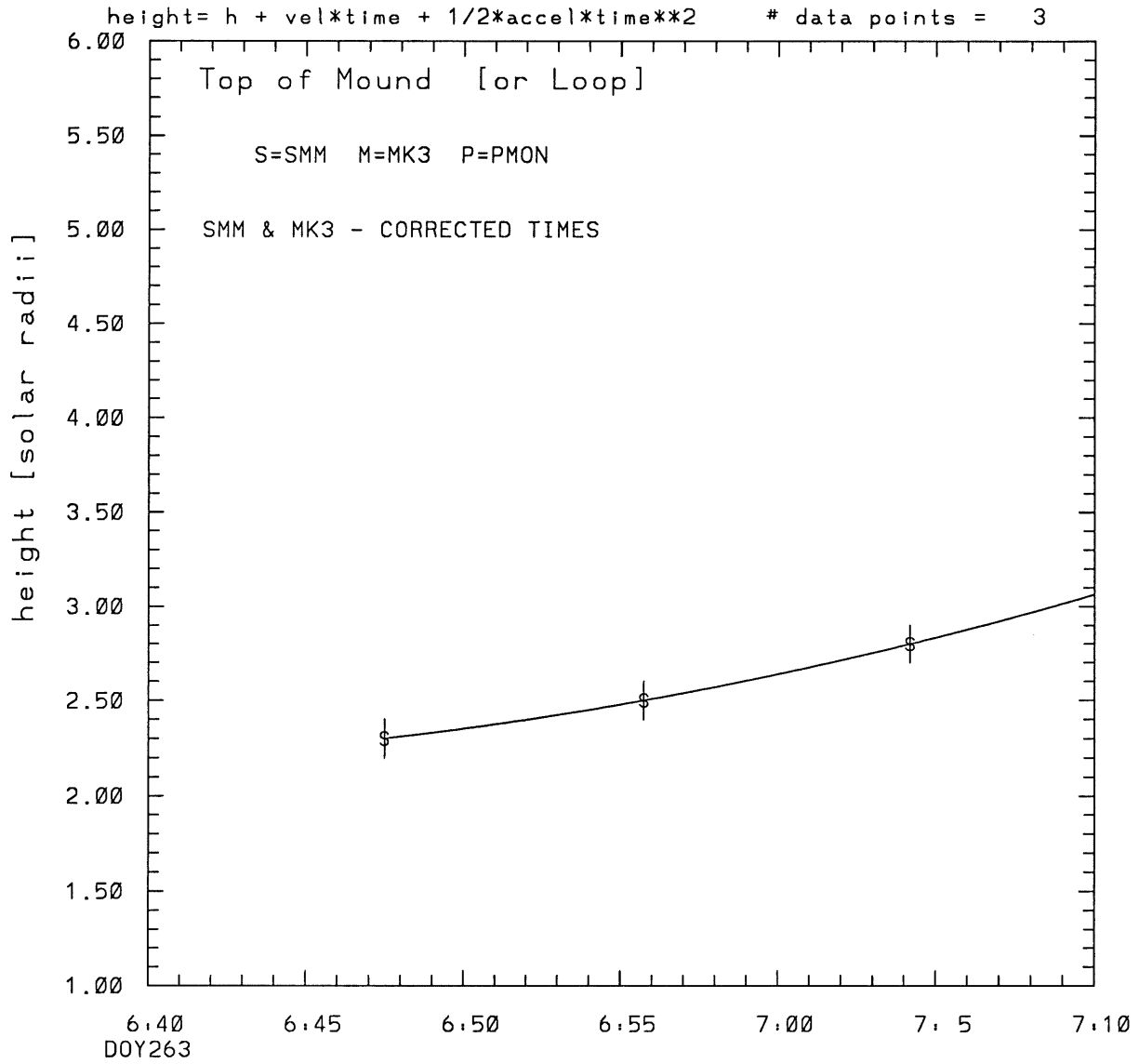


SMM C/P 1989 DOY263 298 +/- 0 degrees



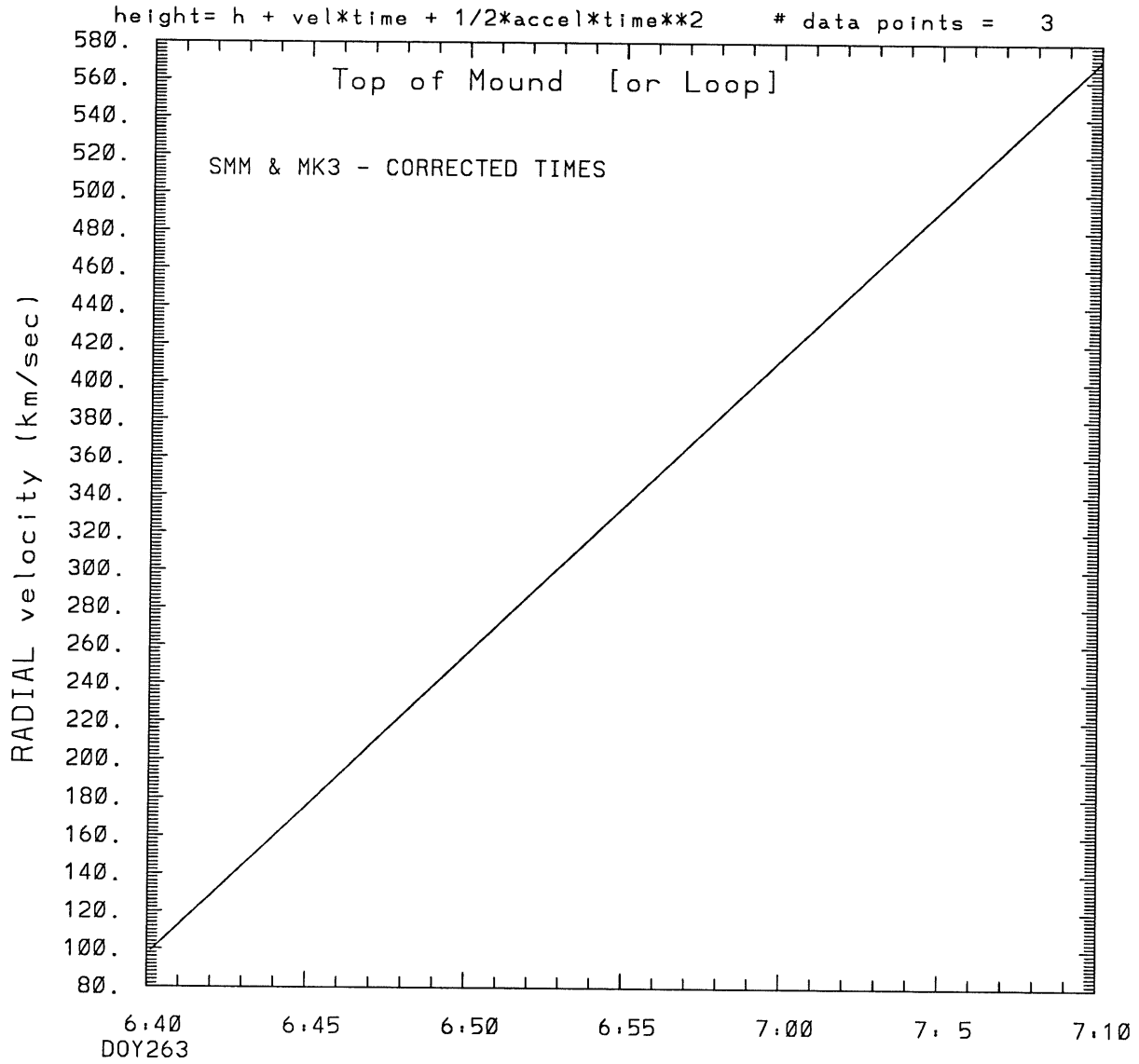
tstart=DOY263 6: 5 +/- 1.6 [min.]  
radial velocity= 348. +/- 27. [km/sec]

SMM C/P 1989 DOY263 298 +/- 0 degrees



tstart=DOY263 6.34 from derivative=0  
Event begins at 2.17 Solar Radii  
radial acceleration = 0.2635 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1989 DOY263 298 +/- 0 degrees



tstart=DOY263 6:34 from derivative=0  
Event begins at 2.17 Solar Radii  
radial acceleration=0.263E+00 km/sec\*\*2

1989 001 263

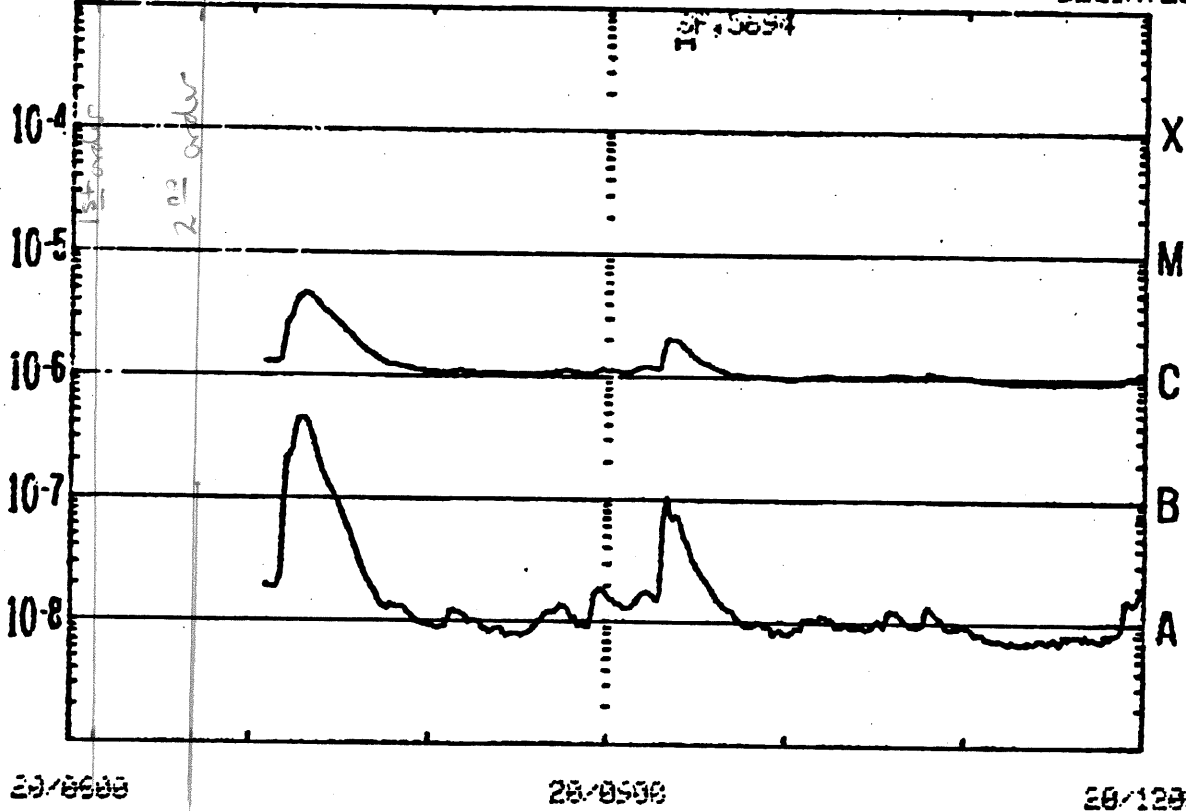
Top of Mound center = 298°  
[6:08] 1<sup>st</sup> order  
Top of Mound, 2<sup>nd</sup> order  
[6:37]

RAW and OPTICAL DATA TOGETHER

STOP  
Ret..

BEGIN: 20 SEP 89

Watts meter<sup>2</sup>



GOES 7 0.5-4.0A GOES 7 1.0-8.0A  
OPTICAL FLARES

29/0600

20/0500

20/1200

— SAA's  
NIGHT

GOES-7 1 MIN DATA; OPTICAL FLARE DUR. IMP. REGION

RUN: 2106UT  
25 SEP 89

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

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

year	doy	time	radii	radius	error in angle	error in angle	datatype
1989	263	6:47:29	2.30 +/- 0.10	298.0 +/- 0.5			SMM
1989	263	6:55:45	2.50 +/- 0.10	298.0 +/- 0.5			SMM
1989	263	7: 4:11	2.80 +/- 0.10	298.0 +/- 0.5			SMM

\*\*\*\*\*  
Structure being measured:  
Top of Mound [or Loop]  
\*\*\*\*\*

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

START TIME:

Event began at t = 0 + -0.354E+02 +/- 0.164E+01 [minutes]  
In more convenient units:  
Event began at DOY 263 6: 5 +/- 0.164E+01 [minutes]

Origin defined at DOY263 6:40

RADIAL INFORMATION:

RADIAL VELOCITY = 348. +/- 27. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.206E+01 +/- 0.400E-01 [solar radii]  
c(2) = 0.300E-01 +/- 0.232E-02 [radii/min]  
c(2) = 0.348E+03 +/- 0.269E+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)= 0.56538E-01 [radii] see Bevington pg. 114  
error in c(2)= 0.32846E-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) = 298. +/- 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 6:47 = 348. km/sec

The RADIAL velocity at 6:55 = 348. km/sec

The RADIAL velocity at 7: 4 = 348. 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 = 0.682E+01  
Error in time = 0.12947E+01 using best fit method  
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.752E-03  
Reduced Chi Squared = 0.300E-02  
Chi Squared = 0.300E-02  
The probability for exceeding chi square = 0.978E+00

The correlation coefficient = 0.994E+00  
The probability that no LINEAR correlation exists between the variables = 0.69461  
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	263	6:47:29	2.30 +/- 0.10	298.0 +/- 0.5			SMM
1989	263	6:55:45	2.50 +/- 0.10	298.0 +/- 0.5			SMM
1989	263	7: 4:11	2.80 +/- 0.10	298.0 +/- 0.5			SMM

\*\*\*\*\*  
Structure being measured:  
Top of Mound [or Loop]  
\*\*\*\*\*

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

START TIME:

tstart=DOY263 6:34 from derivative = 0  
Event begins at 2.17 Solar Radii  
Origin defined at DOY263 6:40

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.263E+00 +/- 0.126E-04 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.220E+01 +/- 0.722E-05 [solar radii]  
c(2) = 0.836E-02 +/- 0.105E-05 [radii/min]  
c(2) = 0.970E+02 +/- 0.122E-01 [km/sec]  
c(3) = 0.681E-03 +/- 0.327E-07 [radii/min\*\*2]  
c(3) = 0.263E+00 +/- 0.126E-04 [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) = 298. +/- 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 6:47 = 215. km/sec

The RADIAL velocity at 6:55 = 346. km/sec

The RADIAL velocity at 7: 4 = 479. 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!