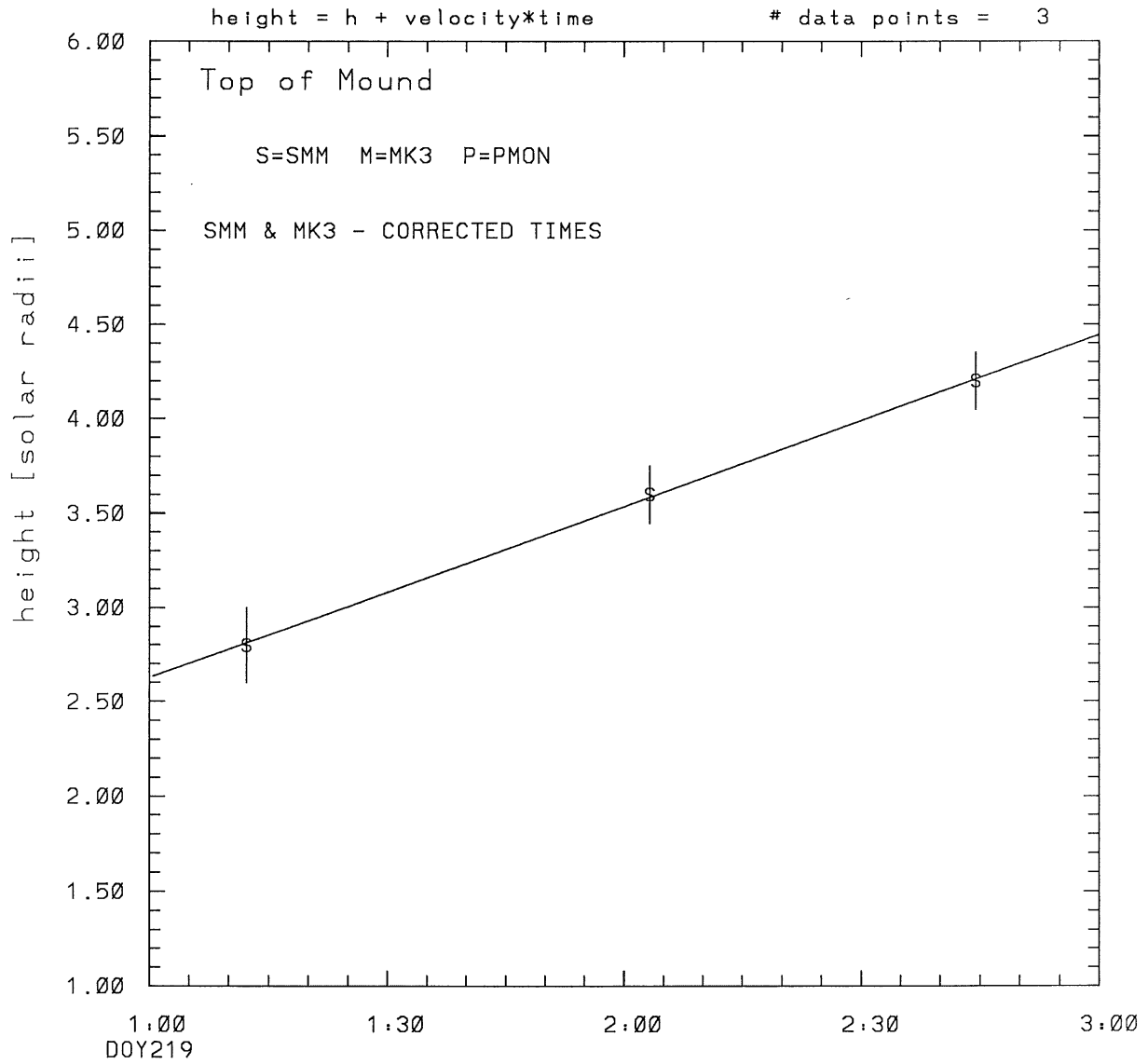
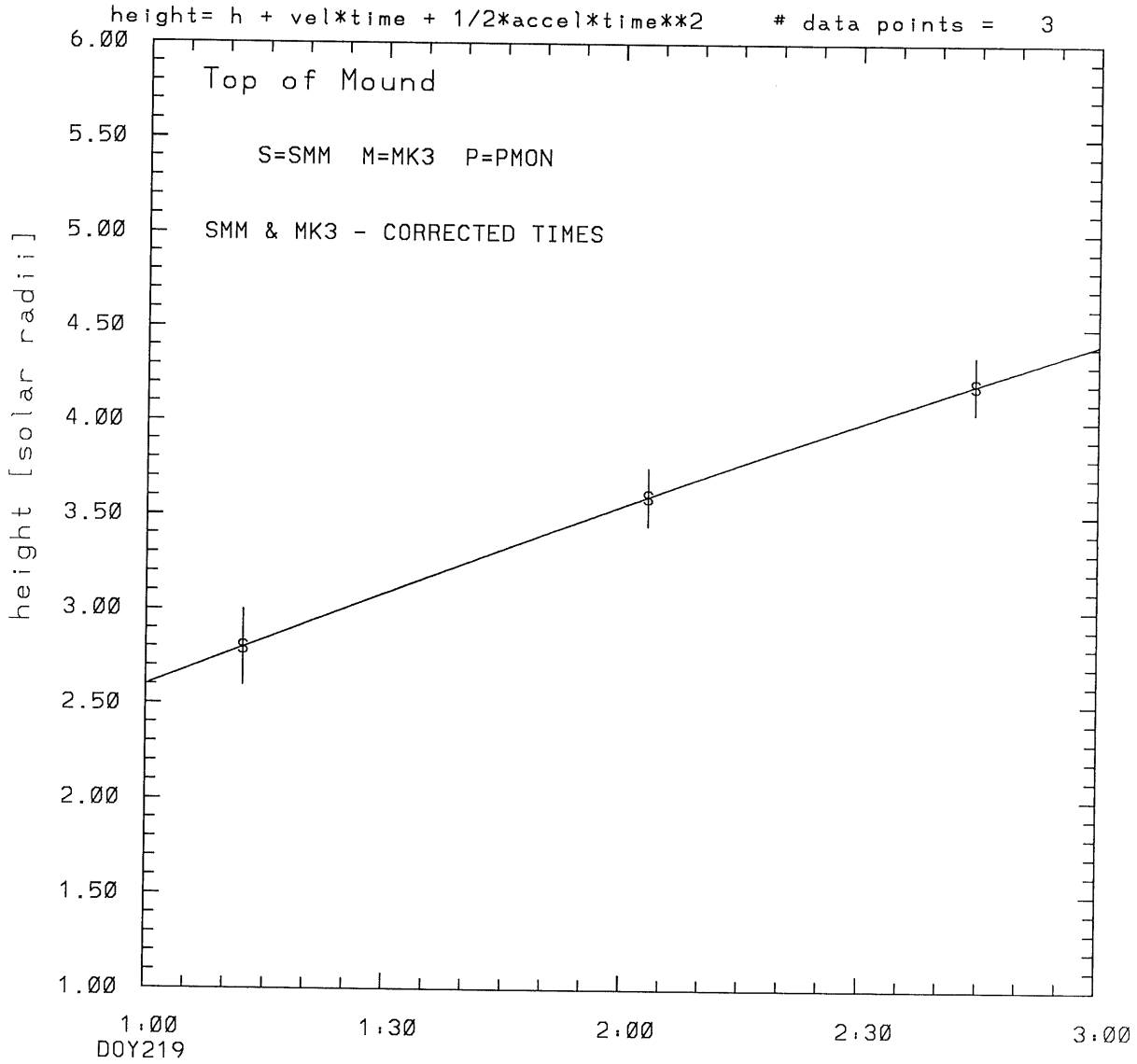


SMM C/P 1989 DOY219 285 +/- 0 degrees



tstart=DOY218 23:14 +/- 1.3 [min.]
radial velocity= 176. +/- 3. [km/sec]

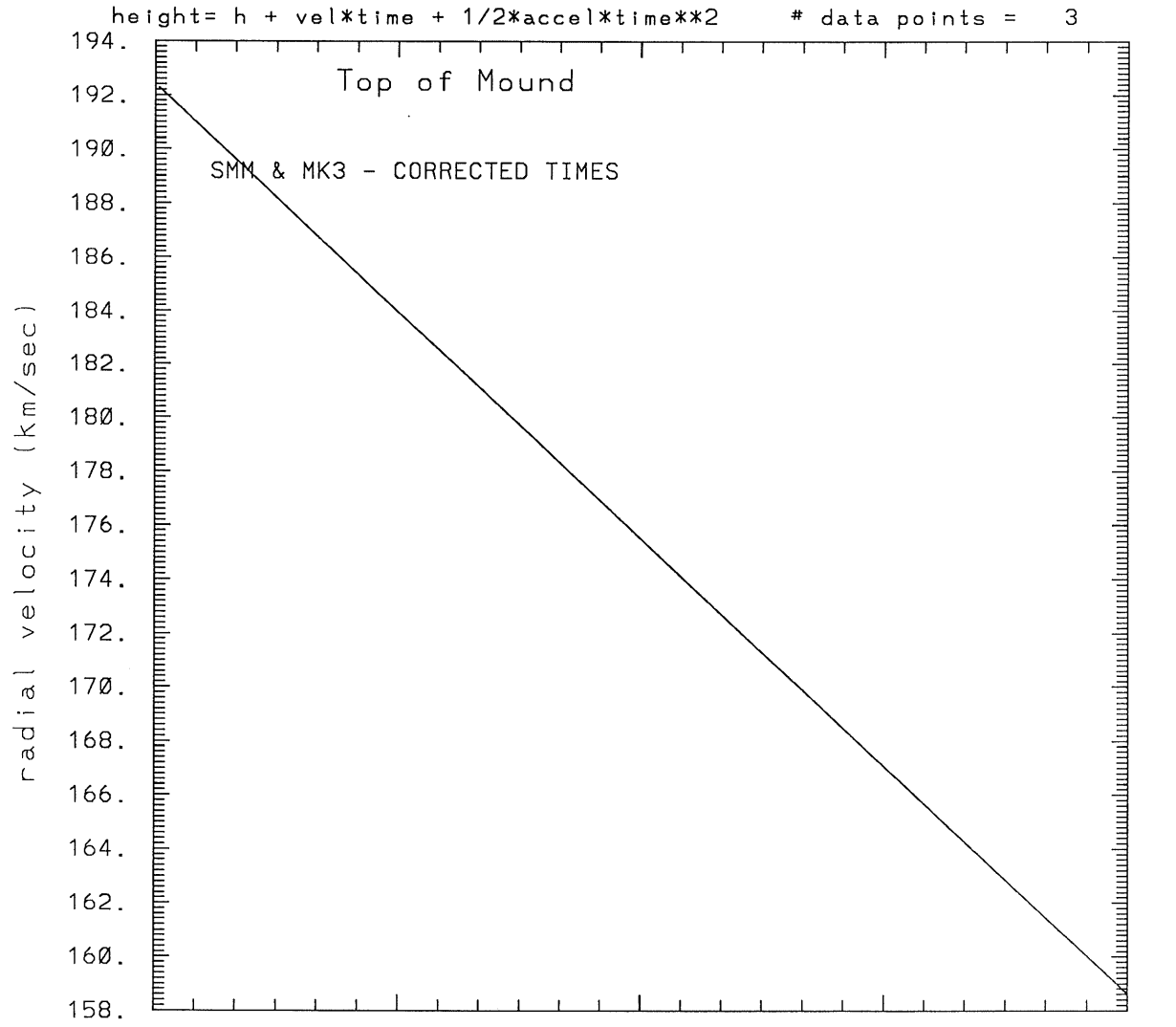
SMM C/P 1989 DOY219 285 +/- 0 degrees



tstart=DOY218 23:30 +/- 0.0 [min.]

radial acceleration=-0.0047 +/- 0.0000 [km/sec**2]

SMM C/P 1989 DOY219 285 +/- 0 degrees



1:00
DOY219

1:30

2:00

2:30

3:00

tstart=DOY218 23:30 +/- 0.0 [min.]

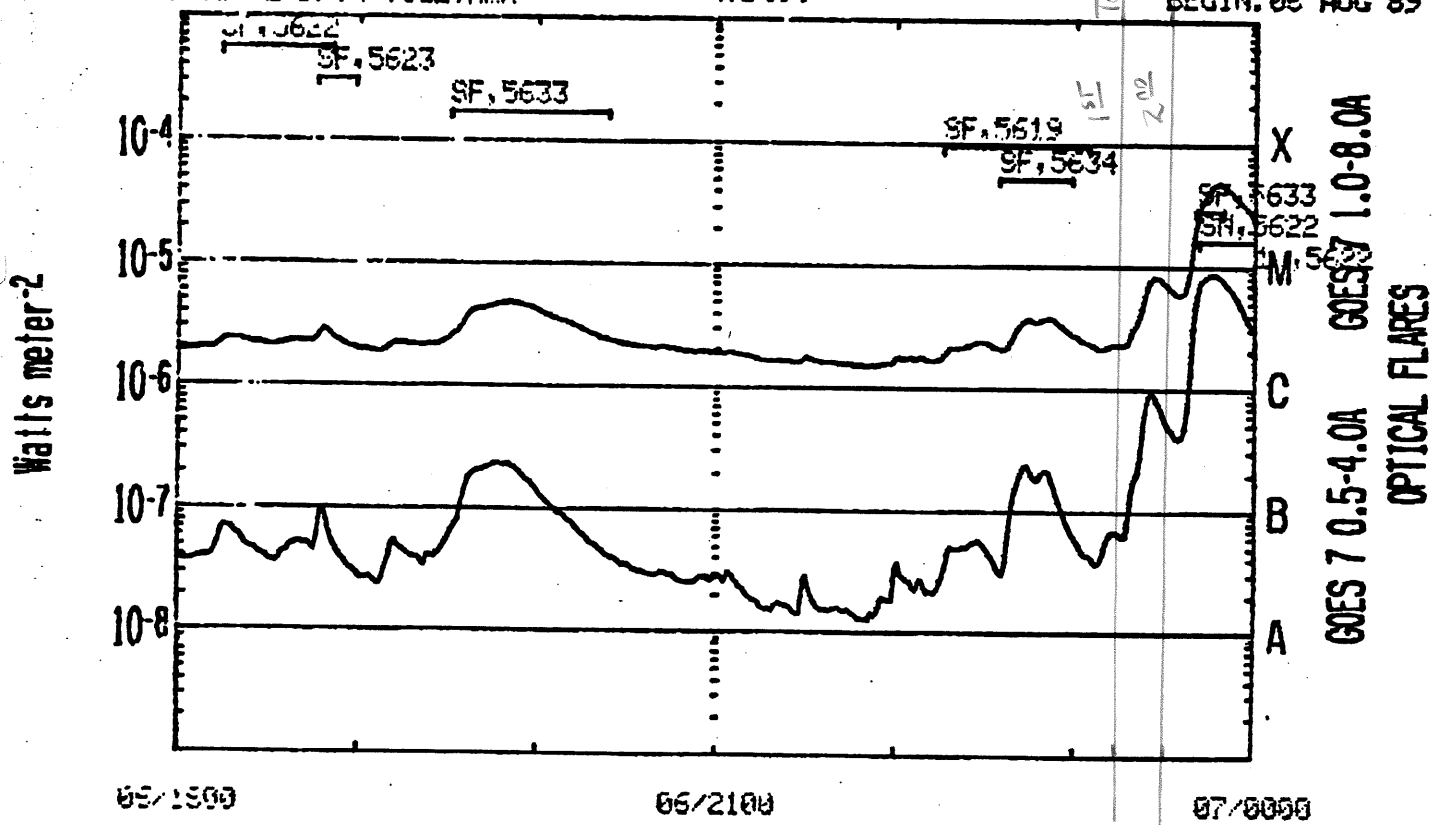
radial acceleration=-.469E-02 km/sec**2

1989 Day 218

MIXING AND OPTICAL DATA TOGETHER

STOP Ret.

BEGIN: 05 AUG 89



05/1500

06/2100

07/0000

— SAA's
— NIGHT

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

RUN: 1839UT
9 AUG 89

This is a 1 order run

INPUT:

year	doy	time	radii	error in radius	angle	error in angle	datatype
1989	219	1:12:13	2.80	+/- 0.20	285.0	+/- 0.5	SMM
1989	219	2: 3:16	3.60	+/- 0.15	285.0	+/- 1.0	SMM
1989	219	2:44:30	4.20	+/- 0.15	285.0	+/- 1.0	SMM

Structure being measured:
Top of Mound

OUTPUT:

START TIME:

Event began at $t = 0 + -0.108E+03 +/- 0.126E+01$ [minutes]

In more convenient units:

Event began at DOY 218 23:14 +/- 0.126E+01 [minutes]

Origin defined at DOY219 1: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 176. +/- 3. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.263E+01 +/- 0.192E-01 [solar radii]
c(2) = 0.151E-01 +/- 0.251E-03 [radii/min]
c(2) = 0.176E+03 +/- 0.292E+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)= 0.23199E-01 [radii] see Bevington pg. 114

error in c(2)= 0.32730E-03 [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) = 285. +/- 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 1:12 = 0. km/sec

The TOTAL velocity at 1:12 = 176. km/sec

The TANGENTIAL velocity at 2: 3 = 0. km/sec

The TOTAL velocity at 2: 3 = 176. km/sec

The TANGENTIAL velocity at 2:44 = 0. km/sec

The TOTAL velocity at 2:44 = 176. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.70

Standard Deviation in start time measurement = 0.377E+02

Error in time = 0.14142E+01 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.230E-03

Reduced Chi Squared = 0.839E-03

Chi Squared = 0.839E-03

The probability for exceeding chi square = 0.988E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.1330E-01

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
1989	219	1:12:13	2.80	+/- 0.20	285.0	+/- 0.5	SMM
1989	219	2: 3:16	3.60	+/- 0.15	285.0	+/- 1.0	SMM
1989	219	2:44:30	4.20	+/- 0.15	285.0	+/- 1.0	SMM

Structure being measured:
Top of Mound

OUTPUT:

START TIME:

Event began at $t = 0 + -0.904E+02 +/- 0.000E+00$ [minutes]
In more convenient units:
Event began at DOY 218 23:30 +/- 0.000E+00 [minutes]

Origin defined at DOY219 1: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = $-0.469E-02 +/- 0.000E+00$ km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = $0.260E+01 +/- 0.000E+00$ [solar radii]
c(2) = $0.166E-01 +/- 0.000E+00$ [radii/min]
c(2) = $0.192E+03 +/- 0.000E+00$ [km/sec]
c(3) = $-0.121E-04 +/- 0.000E+00$ [radii/min**2]
c(3) = $-0.469E-02 +/- 0.000E+00$ [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) = 285. +/- 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]

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

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 1:12 = 0. km/sec

The TOTAL velocity at 1:12 = 189. km/sec

The TANGENTIAL velocity at 2: 3 = 0. km/sec

The TOTAL velocity at 2: 3 = 175. km/sec

The TANGENTIAL velocity at 2:44 = 0. km/sec

The TOTAL velocity at 2:44 = 163. 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!