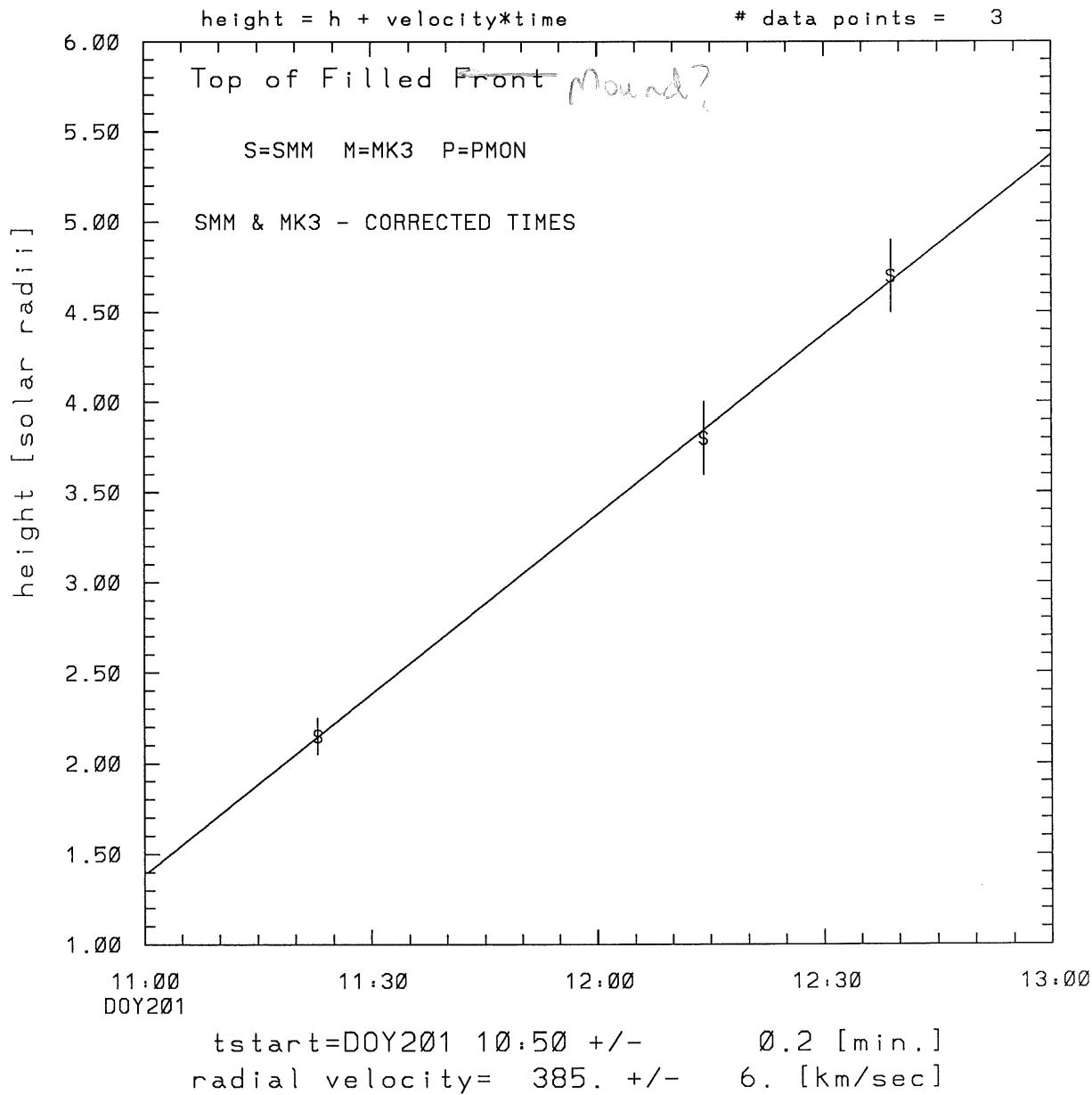
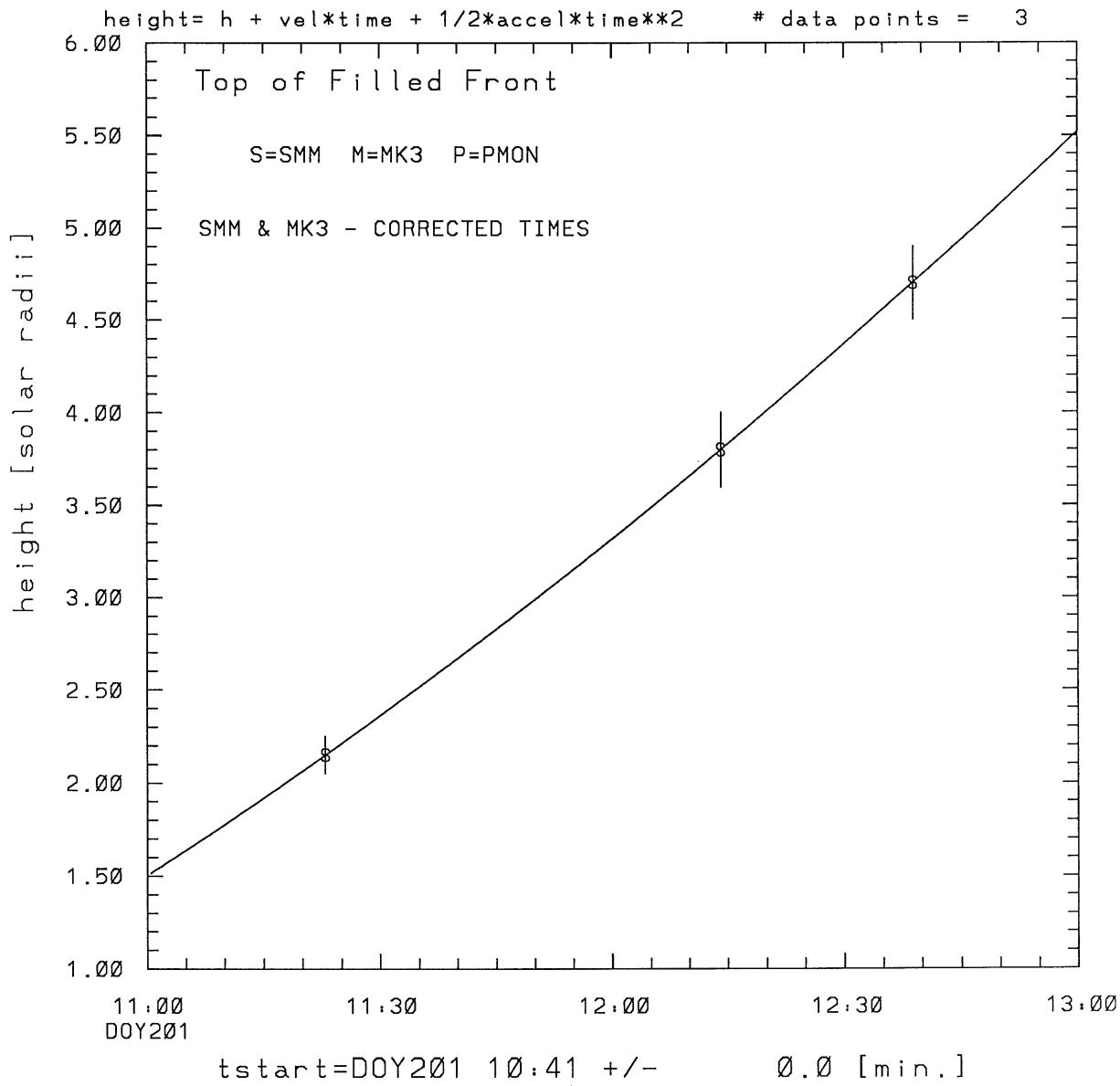


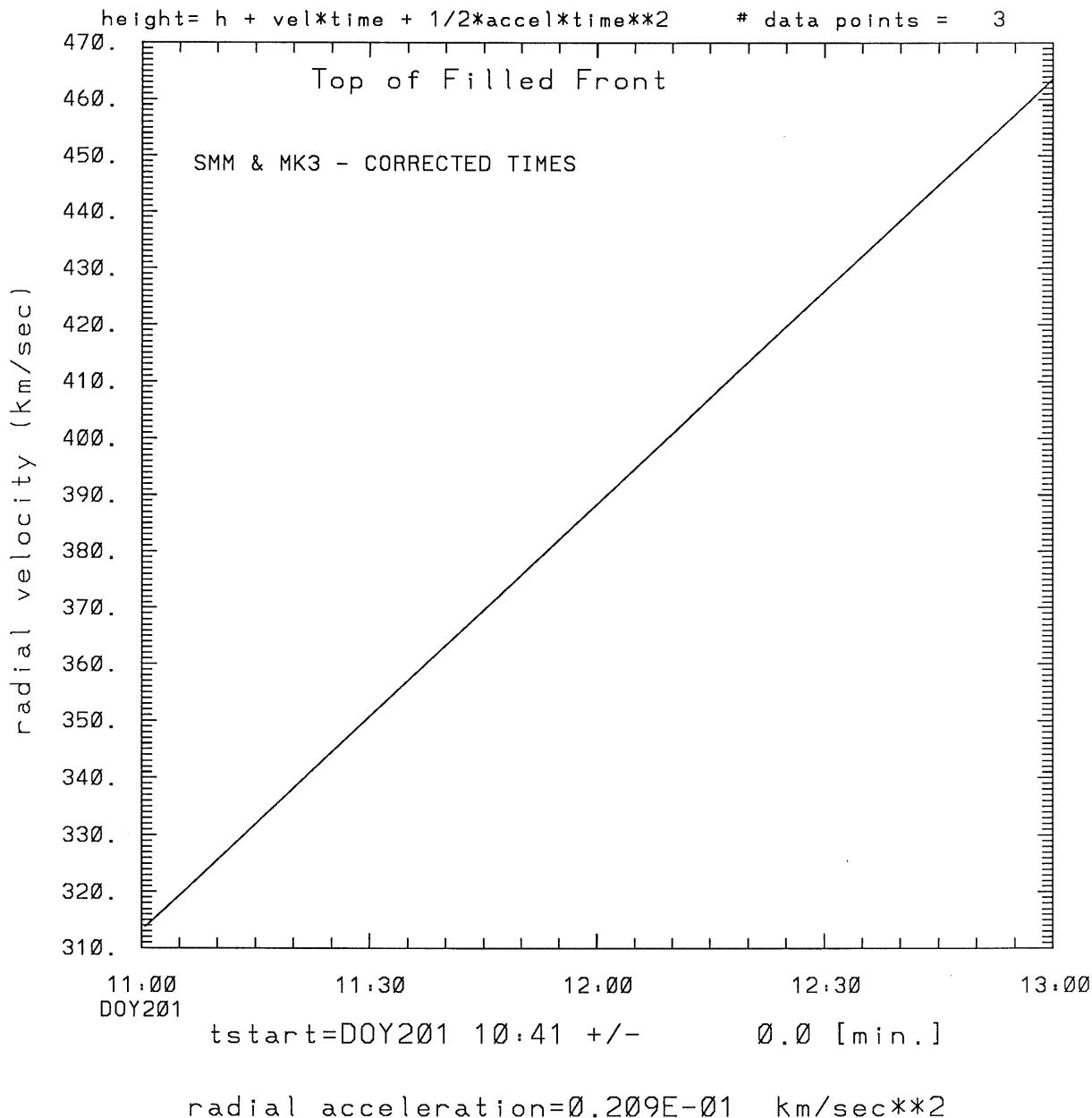
SMM C/P 1989 DOY201 265 +/- 0 degrees



SMM C/P 1989 DOY201 265 +/- 0 degrees



SMM C/P 1989 DOY201 265 +/- 0 degrees



1989 Day 20

SWIR and OPTICAL DATA TOGETHER

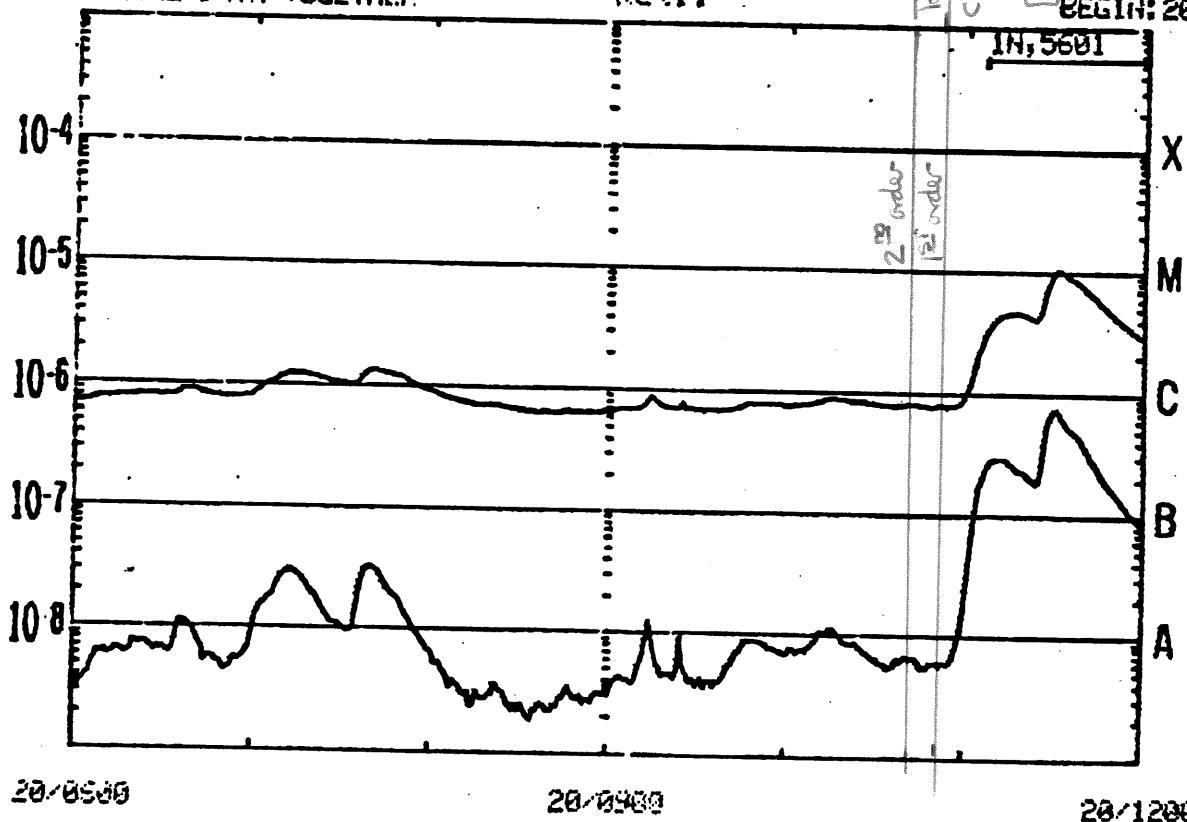
STOP  
Ret..

BEGIN: 20 JUL 89

OPTICAL FLARES

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

Watts/meter -



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

RUN: 1626UT  
24 JUL 89

SAA's  
NIGHT

\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1989	201	11:22:56	2.15	+/- 0.10	265.0	+/- 0.5	SMM
1989	201	12:14: 7	3.80	+/- 0.20	265.0	+/- 1.0	SMM
1989	201	12:38:53	4.70	+/- 0.20	265.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Filled Front

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.116E+02 +/- 0.156E+00 [minutes]

In more convenient units:

Event began at DOY 201 10:50 +/- 0.156E+00 [minutes]

Origin defined at DOY201 11: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 385. +/- 6. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.138E+01 +/- 0.284E-01 [solar radii]  
c(2) = 0.332E-01 +/- 0.527E-03 [radii/min]  
c(2) = 0.385E+03 +/- 0.612E+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)= 0.74033E-01 [radii] see Bevington pg. 114

error in c(2)= 0.10202E-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) = 265. +/- 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 11:22 = 0. km/sec

The TOTAL velocity at 11:22 = 385. km/sec

The TANGENTIAL velocity at 12:14 = 0. km/sec

The TOTAL velocity at 12:14 = 385. km/sec

The TANGENTIAL velocity at 12:38 = 0. km/sec

The TOTAL velocity at 12:38 = 385. 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 = 0.316E+02

Error in time = 0.16826E+01 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.791E-03

Reduced Chi Squared = 0.720E-02

Chi Squared = 0.720E-02

The probability for exceeding chi square = 0.978E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.1907E-01

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

\*\*\*\*\*

This is a 2 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1989	201	11:22:56	2.15	+/- 0.10	265.0	+/- 0.5	SMM
1989	201	12:14: 7	3.80	+/- 0.20	265.0	+/- 1.0	SMM
1989	201	12:38:53	4.70	+/- 0.20	265.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Filled Front

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.194E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 201 10:41 +/- 0.000E+00 [minutes]

Origin defined at DOY201 11: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.209E-01 +/- 0.154E-05 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.150E+01 +/- 0.921E-05 [solar radii]  
c(2) = 0.270E-01 +/- 0.463E-06 [radii/min]  
c(2) = 0.313E+03 +/- 0.537E-02 [km/sec]  
c(3) = 0.540E-04 +/- 0.399E-08 [radii/min\*\*2]  
c(3) = 0.209E-01 +/- 0.154E-05 [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) = 265. +/- 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 11:22 = 0. km/sec  
The TOTAL velocity at 11:22 = 342. km/sec

The TANGENTIAL velocity at 12:14 = 0. km/sec  
The TOTAL velocity at 12:14 = 406. km/sec

The TANGENTIAL velocity at 12:38 = 0. km/sec  
The TOTAL velocity at 12:38 = 437. 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!