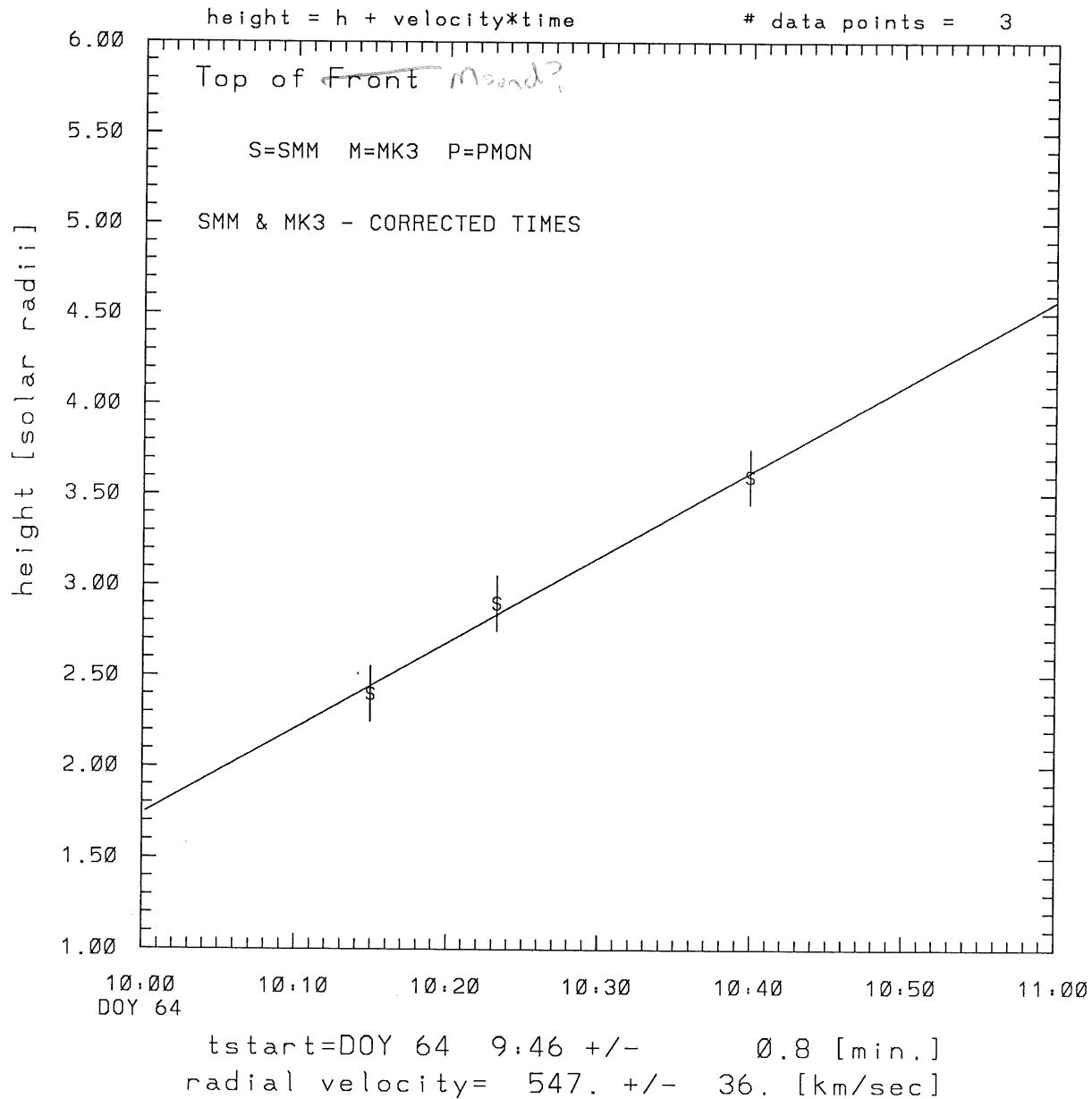
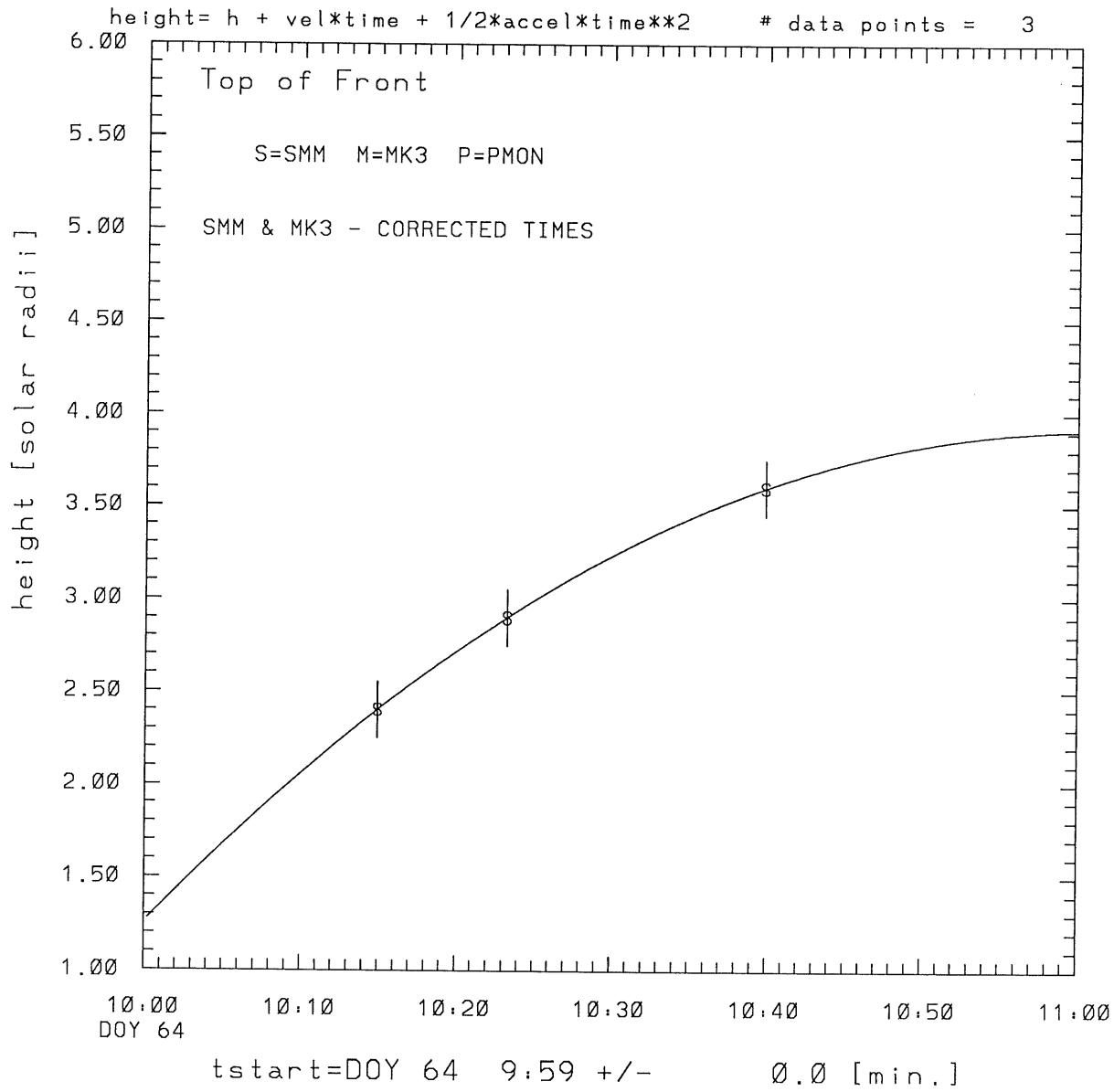


SMM C/P 1989 DOY 64 266 +/- 0 degrees

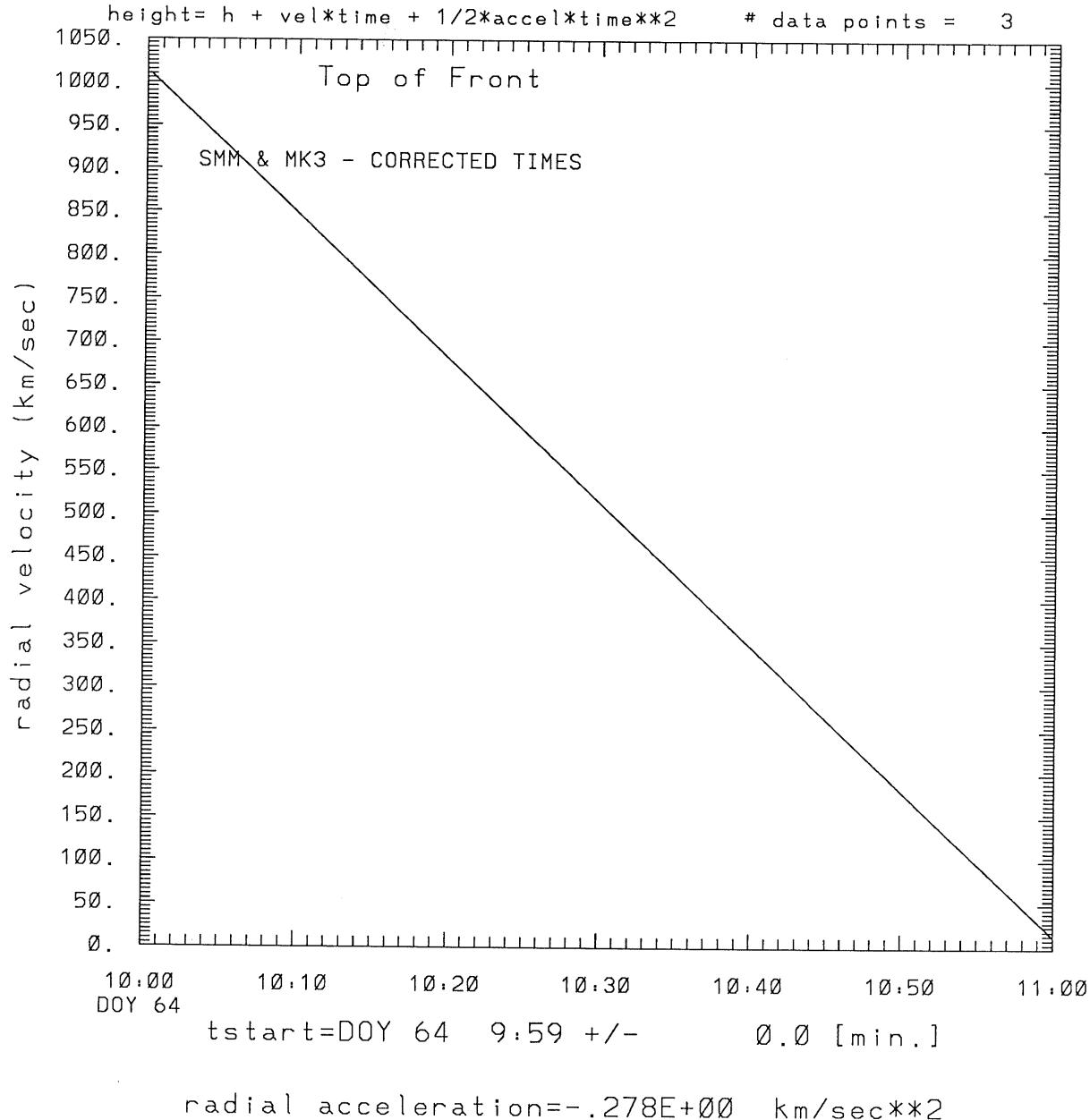


SMM C/P 1989 DOY 64 266 +/- 0 degrees



radial acceleration=-0.2779 +/- 0.0000 [km/sec**2]

SMM C/P 1989 DOY 64 266 +/- 0 degrees



1989 Day 064

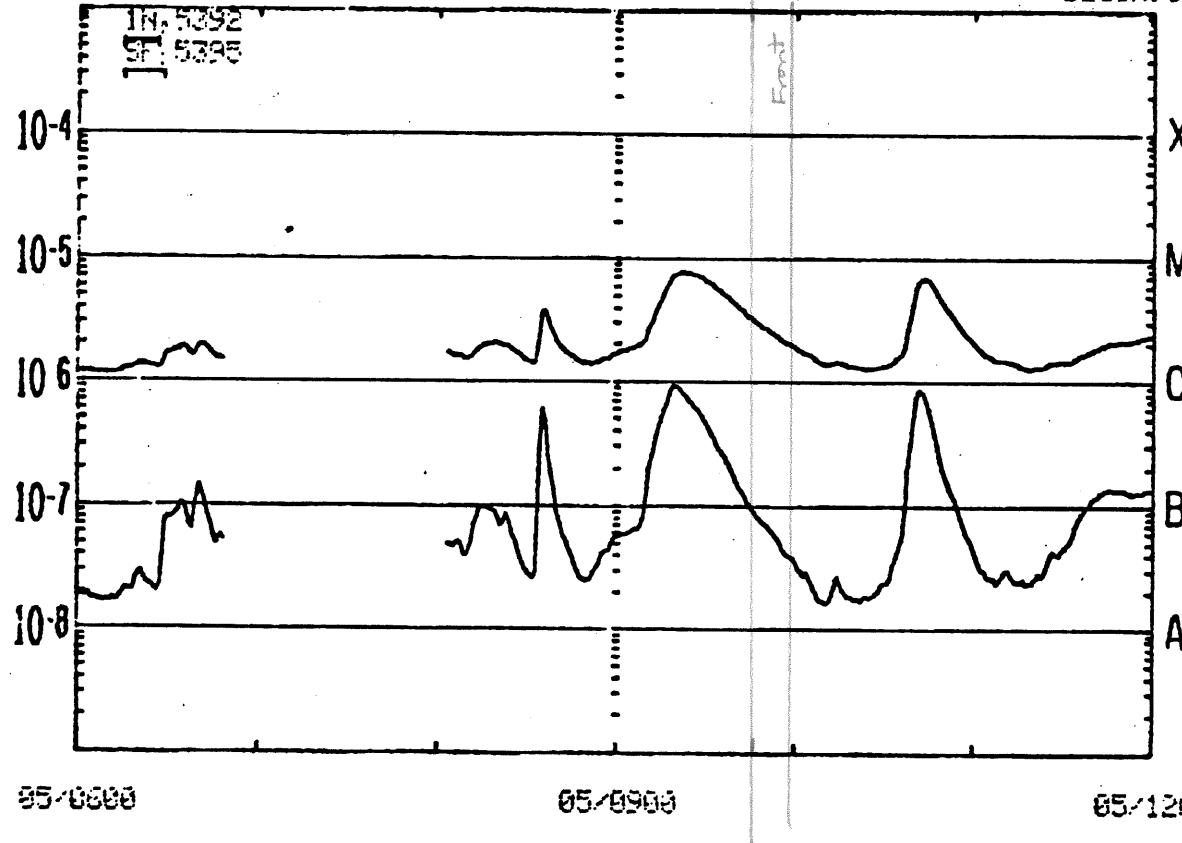
Top of Front center = 270°
1st order
2nd order

GRAY AND OPTICAL DATA TOGETHER

STOP
Ret..

BEGIN: 05 MAR 89

Weights meter?



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

OPTICAL FLARES

SAA'S
NIGHT

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

RUN: 1989UT
18 MAR 89

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1989	64	10:14:56	2.40	+/- 0.15	266.0	+/- 0.5	SMM
1989	64	10:23:16	2.90	+/- 0.15	266.0	+/- 0.5	SMM
1989	64	10:39:55	3.60	+/- 0.15	266.0	+/- 0.5	SMM

Structure being measured:

Top of Front

OUTPUT:

START TIME:

Event began at t = 0 + -0.156E+02 +/- 0.835E+00 [minutes]

In more convenient units:

Event began at DOY 64 9:46 +/- 0.835E+00 [minutes]

Origin defined at DOY 64 10: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 547. +/- 36. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.174E+01 +/- 0.881E-01 [solar radii]
c(2) = 0.472E-01 +/- 0.314E-02 [radii/min]
c(2) = 0.547E+03 +/- 0.365E+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)= 0.12462E+00 [radii] see Bevington pg. 114

error in c(2)= 0.44453E-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) = 266. +/- 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 10:14 = 0. km/sec

The TOTAL velocity at 10:14 = 547. km/sec

The TANGENTIAL velocity at 10:23 = 0. km/sec

The TOTAL velocity at 10:23 = 547. km/sec

The TANGENTIAL velocity at 10:39 = 0. km/sec

The TOTAL velocity at 10:39 = 547. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.60

Standard Deviation in start time measurement = 0.104E+02

Error in time = 0.16950E+01 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.320E-02

Reduced Chi Squared = 0.114E-01

Chi Squared = 0.114E-01

The probability for exceeding chi square = 0.955E+00

The correlation coefficient = 0.996E+00

The probability that no LINEAR correlation exists between the variables = 0.5982E-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	64	10:14:56	2.40	+/- 0.15	266.0	+/- 0.5	SMM
1989	64	10:23:16	2.90	+/- 0.15	266.0	+/- 0.5	SMM
1989	64	10:39:55	3.60	+/- 0.15	266.0	+/- 0.5	SMM

Structure being measured:

Top of Front

OUTPUT:

START TIME:

Event began at t = 0 + -0.284E+01 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 64 9:59 +/- 0.000E+00 [minutes]

Origin defined at DOY 64 10: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.278E+00 +/- 0.829E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.125E+01 +/- 0.149E-05 [solar radii]
c(2) = 0.875E-01 +/- 0.121E-06 [radii/min]
c(2) = 0.101E+04 +/- 0.140E-02 [km/sec]
c(3) = -0.719E-03 +/- 0.214E-08 [radii/min**2]
c(3) = -0.278E+00 +/- 0.829E-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) = 266. +/- 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 10:14 = 0. km/sec
The TOTAL velocity at 10:14 = 765. km/sec

The TANGENTIAL velocity at 10:23 = 0. km/sec
The TOTAL velocity at 10:23 = 627. km/sec

The TANGENTIAL velocity at 10:39 = 0. km/sec
The TOTAL velocity at 10:39 = 349. 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!