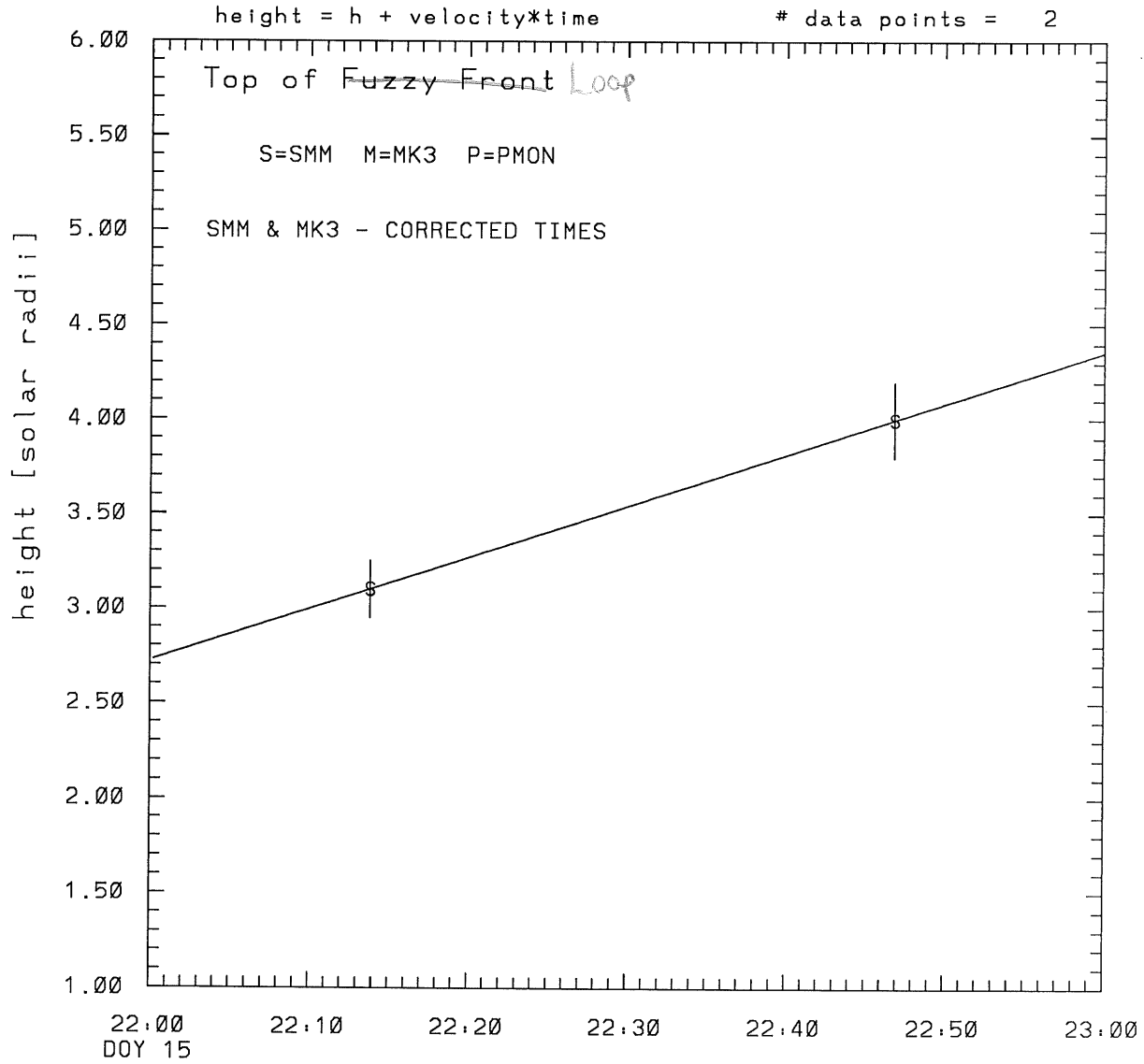


SMM C/P 1989 DOY 15 95 +/- 0 degrees



tstart=DOY 15 20:57 +/- 0.0 [min.]
radial velocity= 316. +/- 0. [km/sec]

This is a 1 order run

INPUT:

year	day	time	radii	error in radius	angle	error in angle	datatype
1989	15	22:13:50	3.10	+/- 0.15	95.0	+/- 0.5	SMM
1989	15	22:46:53	4.00	+/- 0.20	95.0	+/- 0.5	SMM

Structure being measured:

Top of Fuzzy Front

OUTPUT:

START TIME:

Event began at $t = 0 + -0.633E+02 +/- 0.000E+00$ [minutes]

In more convenient units:

Event began at DOY 15 20:57 +/- 0.000E+00 [minutes]

Origin defined at DOY 15 22: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 316. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.272E+01 +/- 0.227E-05 [solar radii]
c(2) = 0.272E-01 +/- 0.751E-07 [radii/min]
c(2) = 0.316E+03 +/- 0.872E-03 [km/sec]
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min**2]
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 95. +/- 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 22:13 = 0. km/sec

The TOTAL velocity at 22:13 = 316. km/sec

The TANGENTIAL velocity at 22:46 = 0. km/sec

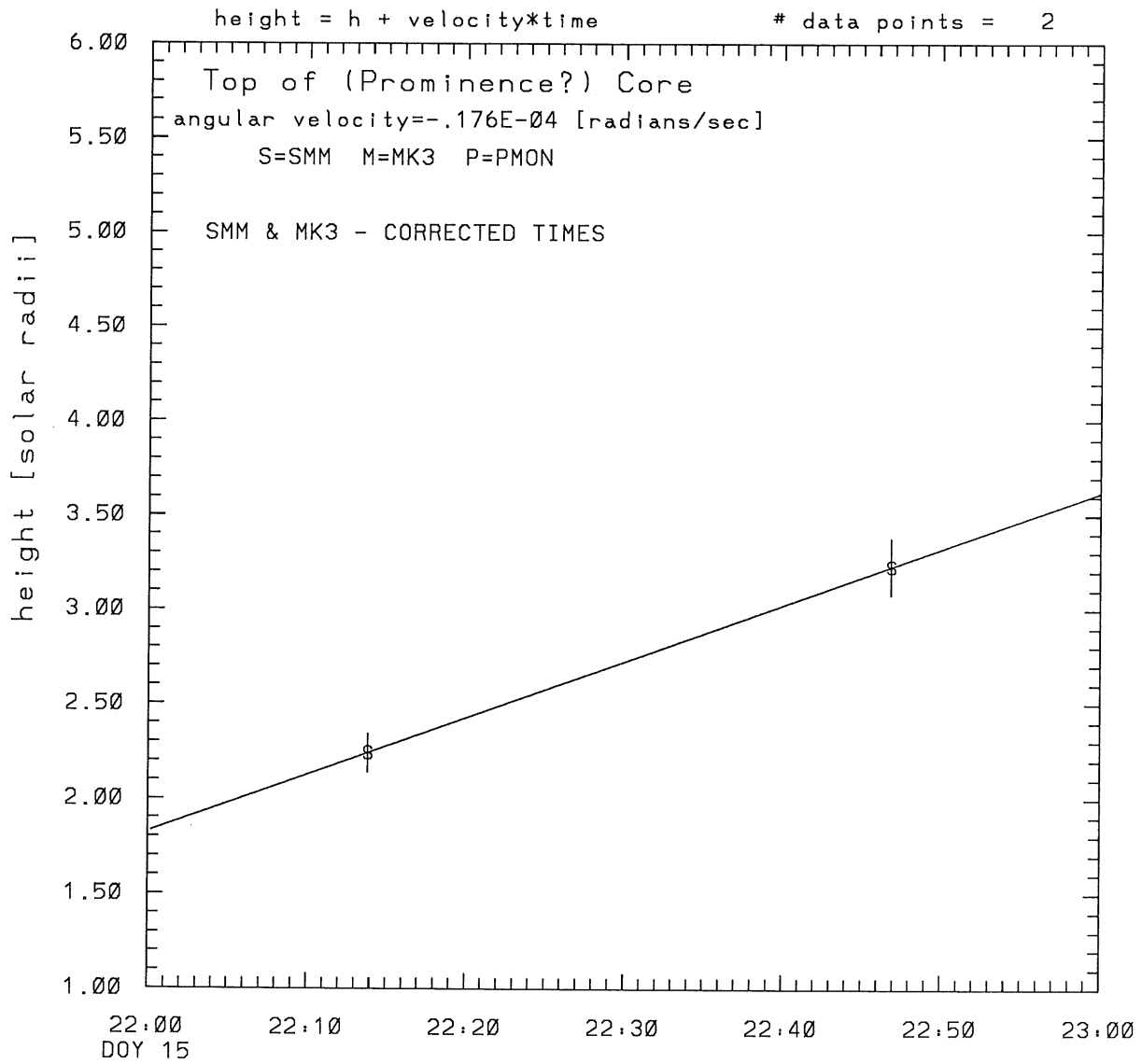
The TOTAL velocity at 22:46 = 316. km/sec

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!

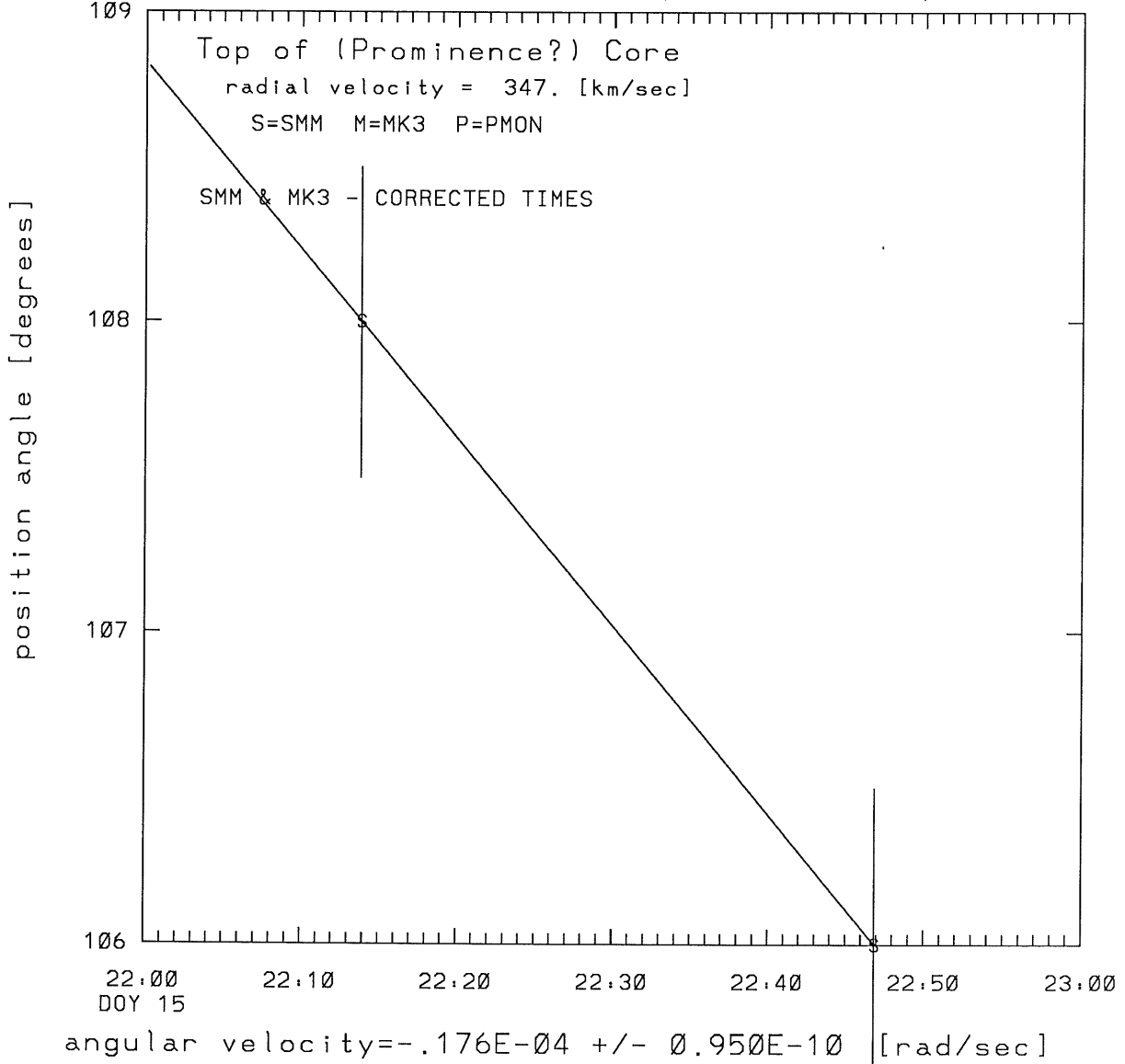
SMM C/P 1989 DOY 15 107 +/- 1 degrees



tstart=DOY 15 21:34 +/- 0.0 [min.]
radial velocity= 347. +/- 0. [km/sec]

SMM C/P 1989 DOY 15 107 +/- 1 degrees

angle = initial angle + angular velocity * time # data points = 2



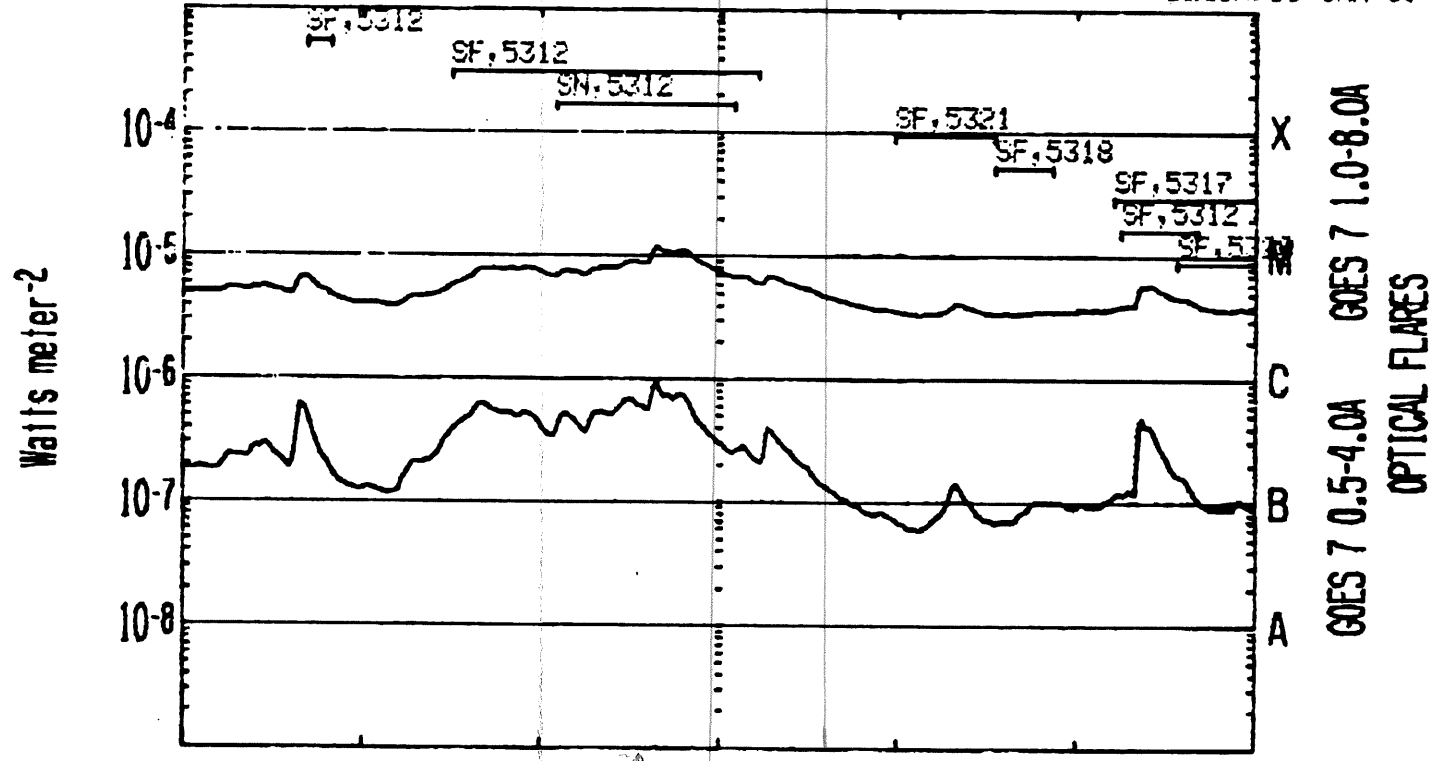
1989 Day 15

Top of Fuzzy Front \odot
[20:57] 1st order only
[21:34] 1st order only
Top of Penumbra? Core

SAA and OPTICAL DATA TOGETHER

STOP Ret..

BEGIN: 15 JAN 89



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

15/1989

MAX 15/2100
X-ray
~20:40

16/1989

SAA's NIGHT

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

RUN: 175SUT
28 JAN 89

This is a 1 order run

INPUT:

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	15	22:13:50	2.24 +/-	0.10	108.0 +/-	0.5	SMM
1989	15	22:46:53	3.23 +/-	0.15	106.0 +/-	1.0	SMM

Structure being measured:
Top of (Prominence?) Core

OUTPUT:

START TIME:

Event began at $t = 0 + -0.276E+02 +/- 0.000E+00$ [minutes]
In more convenient units:
Event began at DOY 15 21:34 +/- 0.000E+00 [minutes]

Origin defined at DOY 15 22: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 347. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.183E+01 +/- 0.000E+00 [solar radii]
c(2) = 0.300E-01 +/- 0.000E+00 [radii/min]
c(2) = 0.347E+03 +/- 0.000E+00 [km/sec]
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min**2]
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR VELOCITY = -0.1760E-04 +/- 0.0000E+00 [radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 109. +/- 0. [degrees]
a(2) = -0.605E-01 +/- 0.000E+00 [degrees/min]
a(2) = -0.176E-04 +/- 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, RADIAL AND TOTAL SPEEDS AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 22:13 = -27. km/sec
The RADIAL velocity at 22:13 = 347. km/sec

The TOTAL velocity at 22:13 = 349. km/sec

The TANGENTIAL velocity at 22:46 = -40. km/sec
The RADIAL velocity at 22:46 = 347. km/sec

The TOTAL velocity at 22:46 = 350. 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!