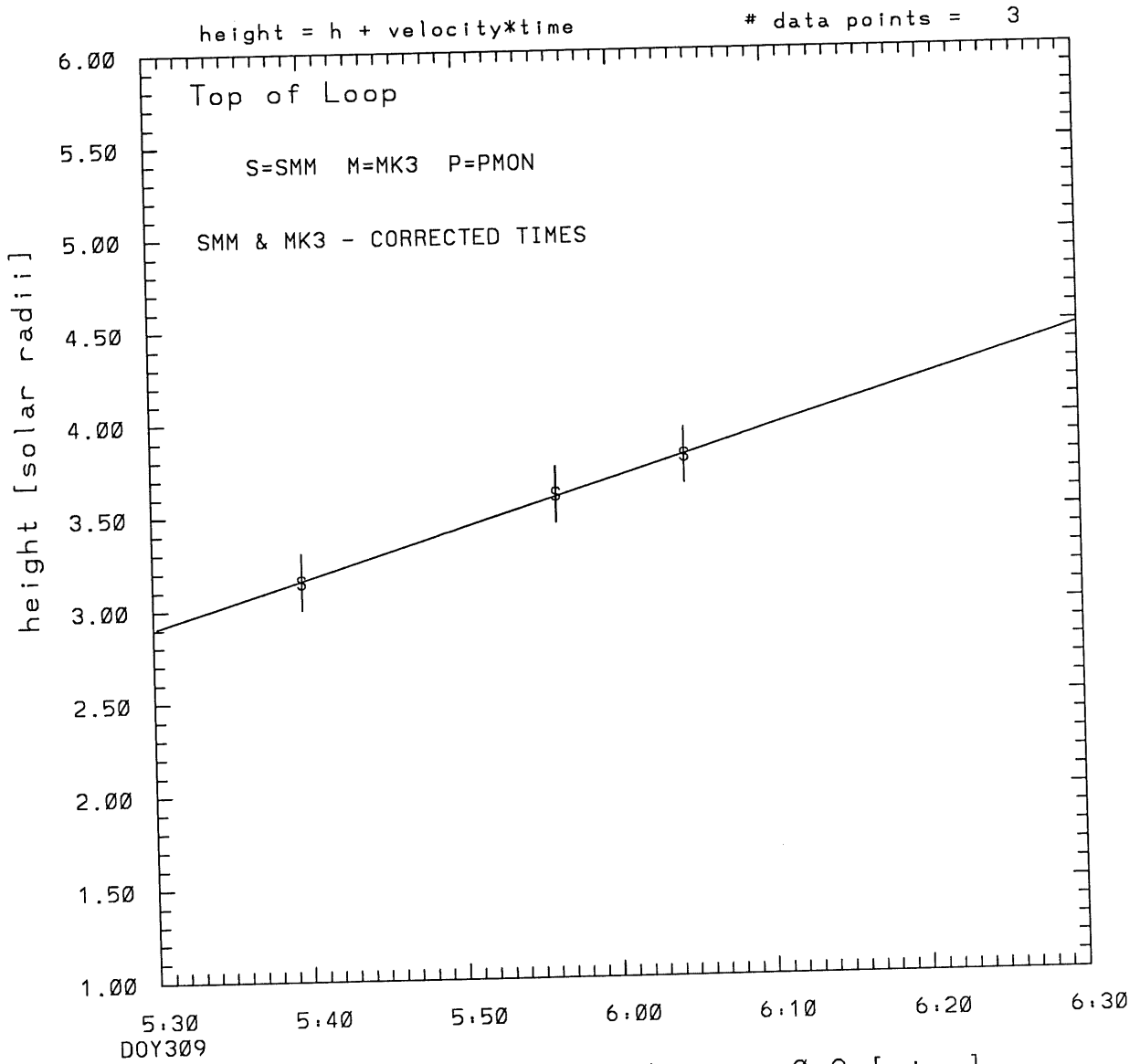


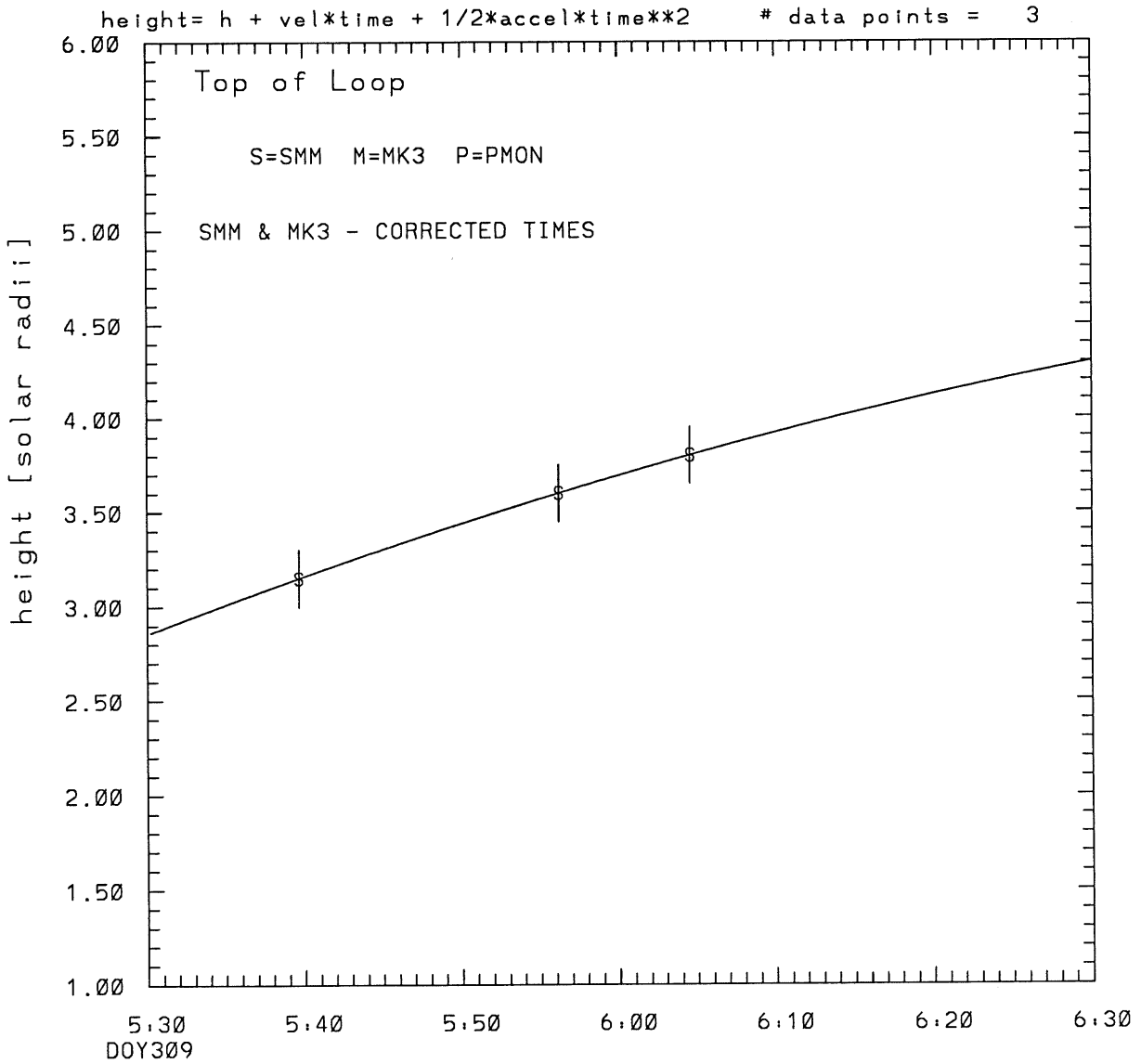


SMM C/P 1989 DOY309 83 +/- 0 degrees



tstart=DOY309 4:18 +/- 0.9 [min.]
radial velocity= 304. +/- 7. [km/sec]

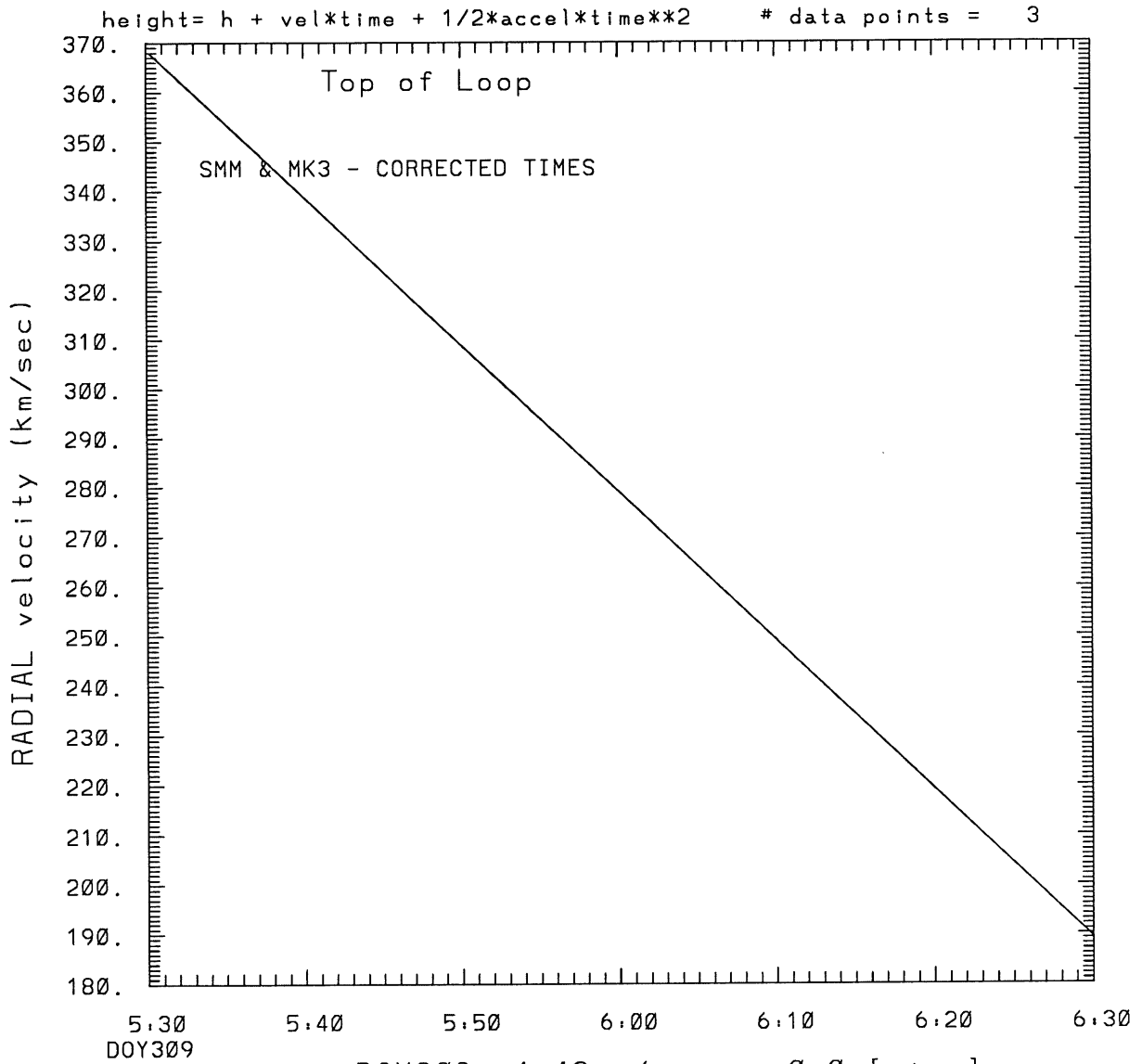
SMM C/P 1989 DOY309 83 +/- 0 degrees



tstart=DOY309 4.43 +/- 0.0 [min.]

radial acceleration = -0.0498 +/- 0.0000 [km/sec**2]

SMM C/P 1989 DOY309 83 +/- 0 degrees

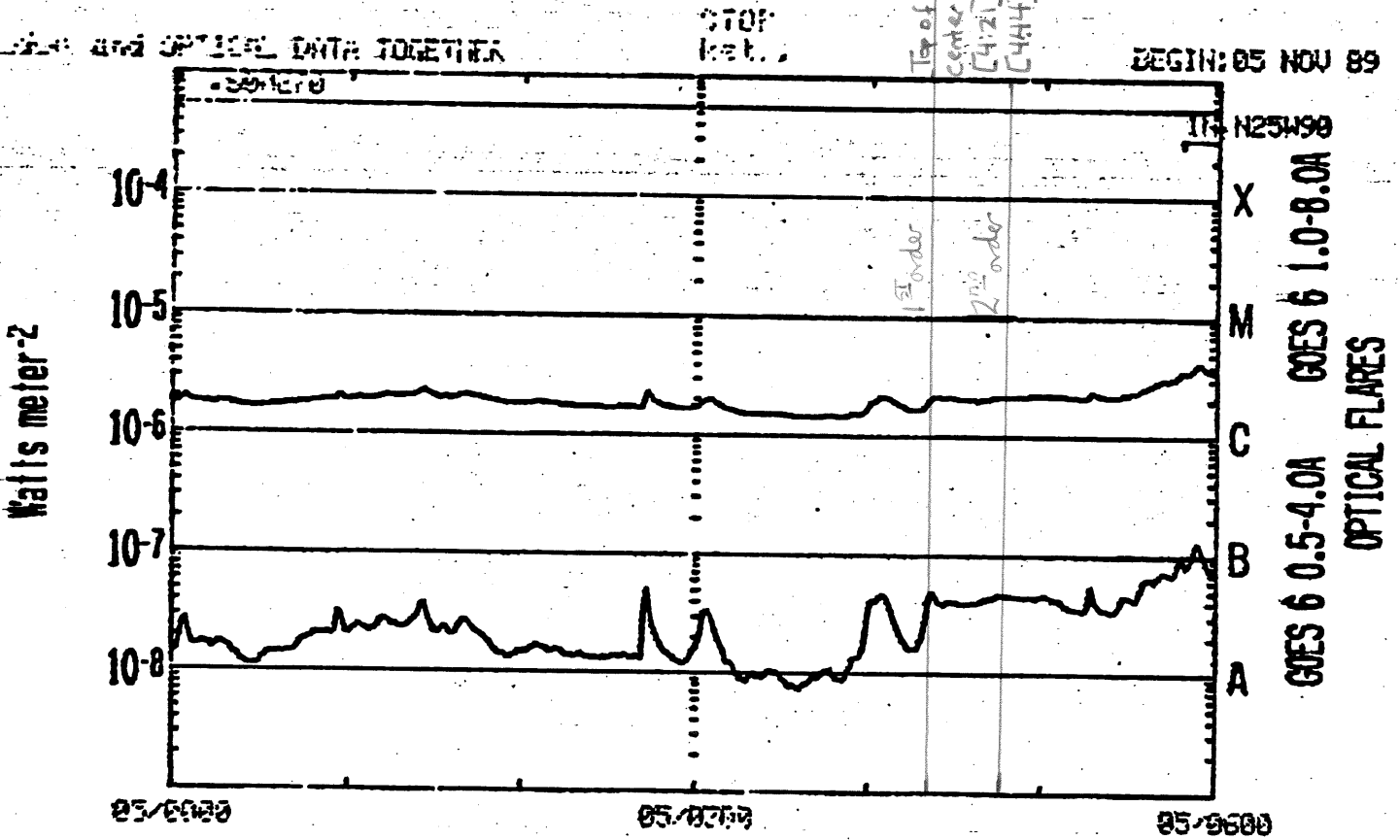


DOY309

tstart=DOY309 4.43 +/- 0.0 [min.]

radial acceleration=-.498E-01 km/sec**2

1989 Day 309



GOES-6 1 MIN DATA; OPTICAL FLARE DUR, IMP. REGION

SAA's
NIGHT

FILE: 2115UT
6 NOV 89

This is a 1 order run

INPUT:

year	day	time	radii	radius	error in angle	error in angle	datatype
1989	309	5:39:38	3.15 +/-	0.15	83.0 +/-	1.0	SMM
1989	309	5:56:12	3.60 +/-	0.15	83.0 +/-	1.0	SMM
1989	309	6: 4:33	3.80 +/-	0.15	83.0 +/-	1.0	SMM

Structure being measured:
Top of Loop

OUTPUT:

START TIME:

Event began at t = 0 + -0.725E+02 +/- 0.911E+00 [minutes]
In more convenient units:
Event began at DOY 309 4:18 +/- 0.911E+00 [minutes]

Origin defined at DOY309 5:30

RADIAL INFORMATION:

RADIAL VELOCITY = 304. +/- 7. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.290E+01 +/- 0.145E-01 [solar radii]
c(2) = 0.262E-01 +/- 0.564E-03 [radii/min]
c(2) = 0.304E+03 +/- 0.654E+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) = 0.20444E-01 [radii] see Bevington pg. 114
error in c(2) = 0.79720E-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) = 83. +/- 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 5:39 = 304. km/sec

The RADIAL velocity at 5:56 = 304. km/sec

The RADIAL velocity at 6: 4 = 304. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.33
Standard Deviation in start time measurement = 0.104E+02
Error in time = 0.54492E+00 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.102E-03
Reduced Chi Squared = 0.452E-03
Chi Squared = 0.452E-03
The probability for exceeding chi square = 0.992E+00

The correlation coefficient = 0.100E+01
The probability that no LINEAR correlation exists between the variables = 0.19211
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	309	5:39:38	3.15 +/-	0.15	83.0 +/-	1.0	SMM
1989	309	5:56:12	3.60 +/-	0.15	83.0 +/-	1.0	SMM
1989	309	6: 4:33	3.80 +/-	0.15	83.0 +/-	1.0	SMM

Structure being measured:
Top of Loop

OUTPUT:

START TIME:

Event began at t = 0 + -0.488E+02 +/- 0.000E+00 [minutes]
In more convenient units:
Event began at DOY 309 4:43 +/- 0.000E+00 [minutes]

Origin defined at DOY309 5:30

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.498E-01 +/- 0.455E-05 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.286E+01 +/- 0.454E-05 [solar radii]
c(2) = 0.318E-01 +/- 0.511E-06 [radii/min]
c(2) = 0.369E+03 +/- 0.593E-02 [km/sec]
c(3) = -0.129E-03 +/- 0.118E-07 [radii/min**2]
c(3) = -0.498E-01 +/- 0.455E-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) = 83. +/- 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 5:39 = 340. km/sec

The RADIAL velocity at 5:56 = 290. km/sec

The RADIAL velocity at 6: 4 = 265. 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!