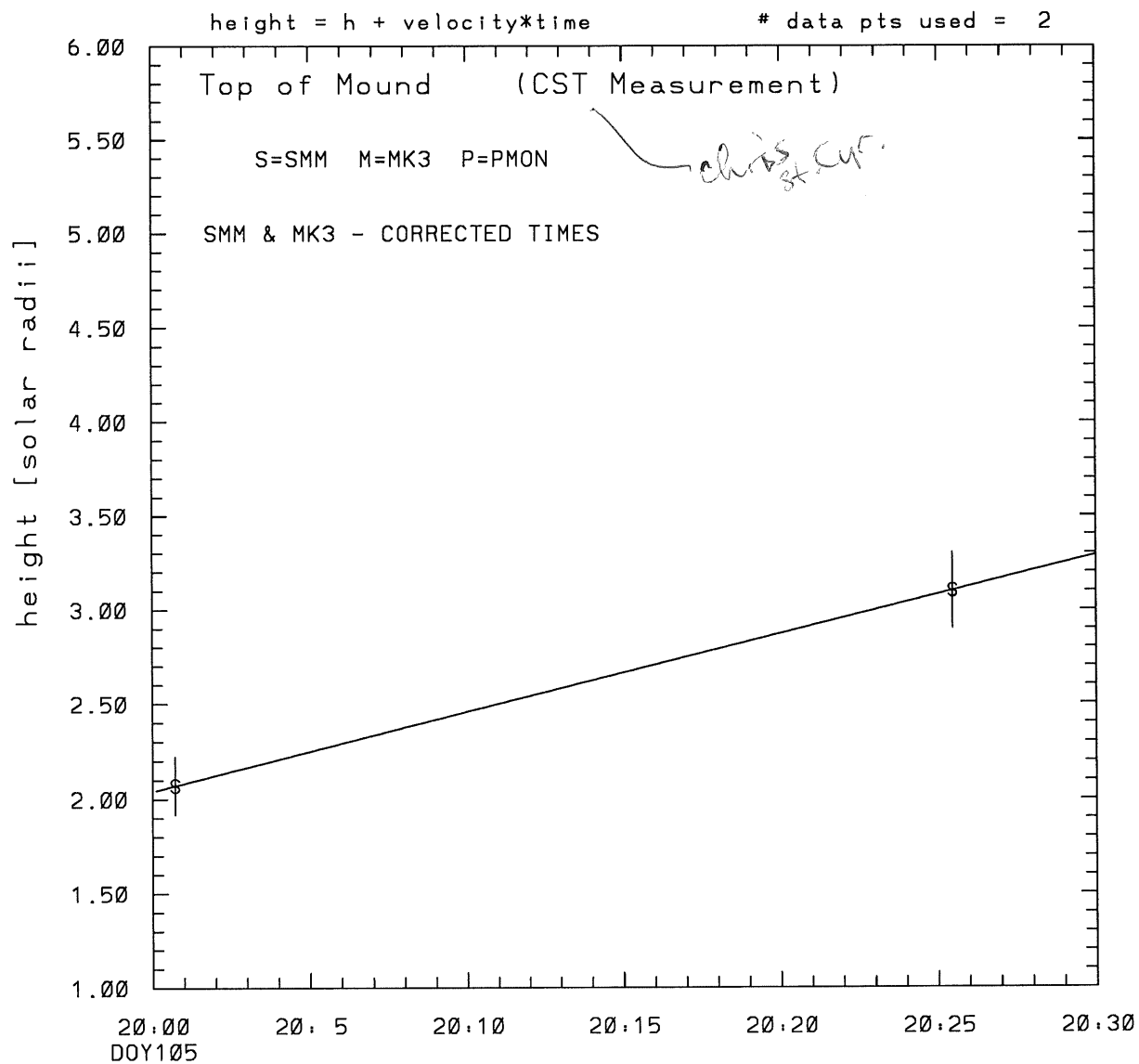




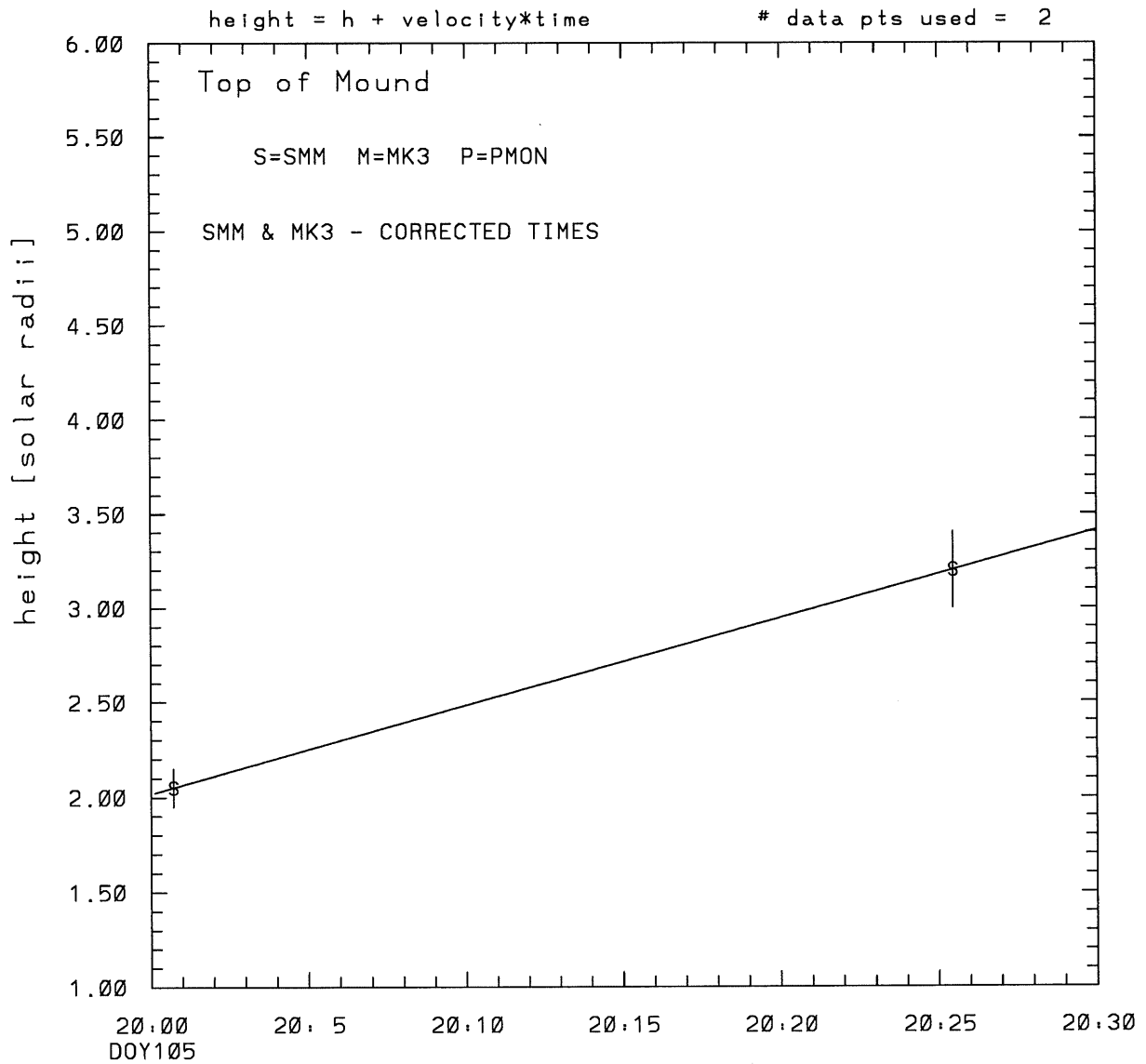
SMM C/P 1988 DOY105 61 +/- 0 degrees



tstart=DOY105 19:37 +/- 0.0 [min.]
radial velocity= 483. +/- 0. [km/sec]

Burkēplē

SMM C/P 1988 DOY105 60 +/- 0 degrees



tstart=DOY105 19.40 +/- 0.0 [min.]
radial velocity= 539. +/- 0. [km/sec]

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	105	20: 0:43	2.07 +/-	0.15	61.7 +/-	0.5	SMM
1988	105	20:25:28	3.10 +/-	0.20	61.7 +/-	1.0	SMM

Structure being measured:
Top of Mound (CST Measurement)

OUTPUT:

START TIME:

Event began at t = 0 + -0.250E+02 +/- 0.000E+00 [minutes]
In more convenient units:
Event began at DOY 105 19:37 +/- 0.000E+00 [minutes]

Origin defined at DOY105 20: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 483. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.204E+01 +/- 0.485E-06 [solar radii]
c(2) = 0.416E-01 +/- 0.317E-07 [radii/min]
c(2) = 0.483E+03 +/- 0.368E-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) = 62. +/- 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 20: 0 = 483. km/sec

The RADIAL velocity at 20:25 = 483. 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!

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	105	20: 0:43	2.05 +/-	0.10	60.0 +/-	0.5	SMM
1988	105	20:25:28	3.20 +/-	0.20	60.0 +/-	1.0	SMM

Structure being measured:

Top of Mound

OUTPUT:

START TIME:

Event began at t = 0 + -0.219E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 105 19:40 +/- 0.000E+00 [minutes]

Origin defined at DOY105 20: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 539. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.202E+01 +/- 0.000E+00 [solar radii]
 c(2) = 0.465E-01 +/- 0.000E+00 [radii/min]
 c(2) = 0.539E+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 = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 60. +/- 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 20: 0 = 539. km/sec

The RADIAL velocity at 20:25 = 539. km/sec

The following info is for estimating goodness of the fit

Number data points = number of coefficients. No error analysis is possible.

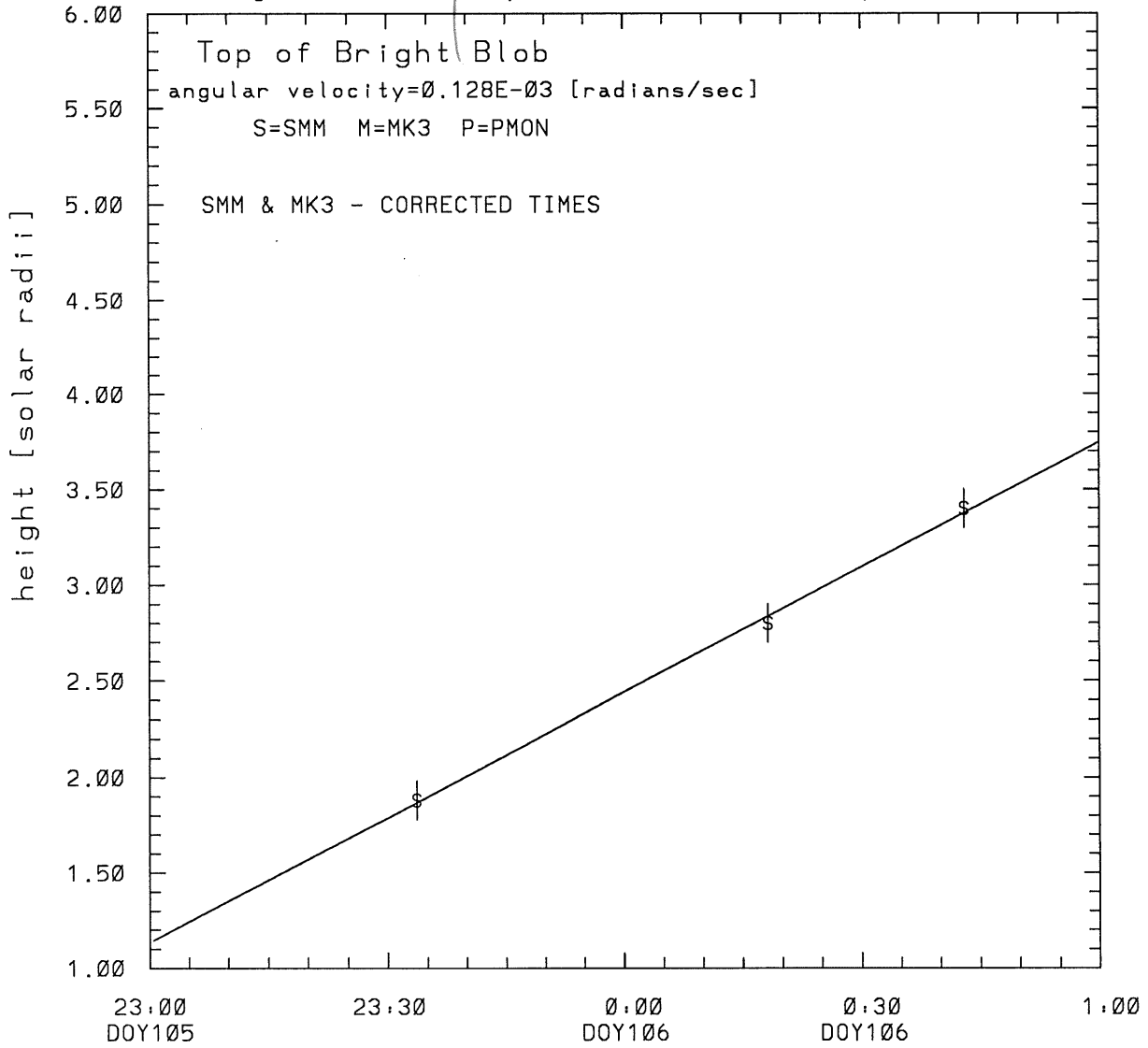
Correlation coefficient is not computable!



(prom?)

SMM C/P 1988 DOY105 85 +/- 16 degrees

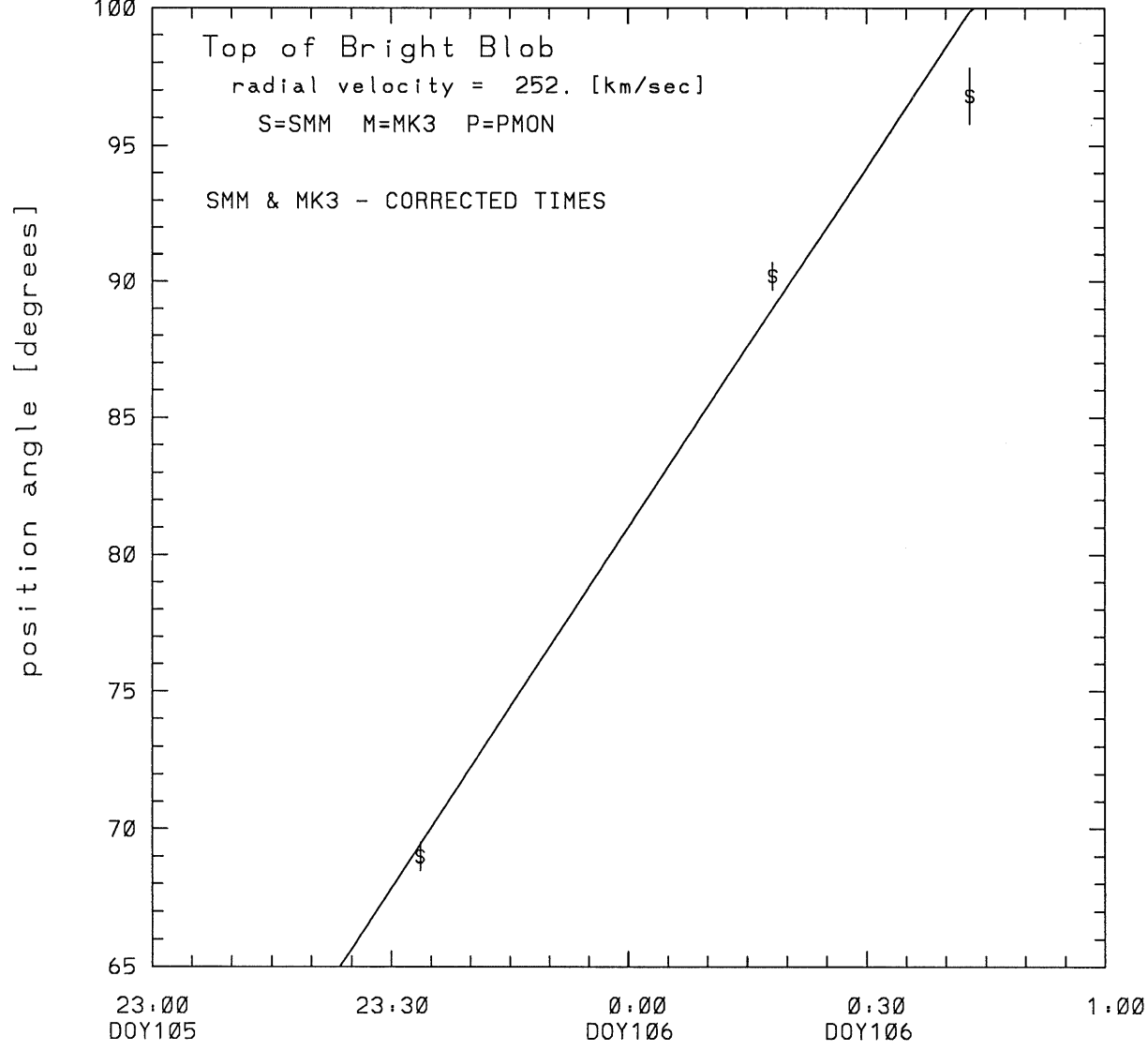
height = h + velocity*time # data pts used = 3



tstart=DOY105 22:54 +/- 0.2 [min.]
 radial velocity= 252. +/- 8. [km/sec]

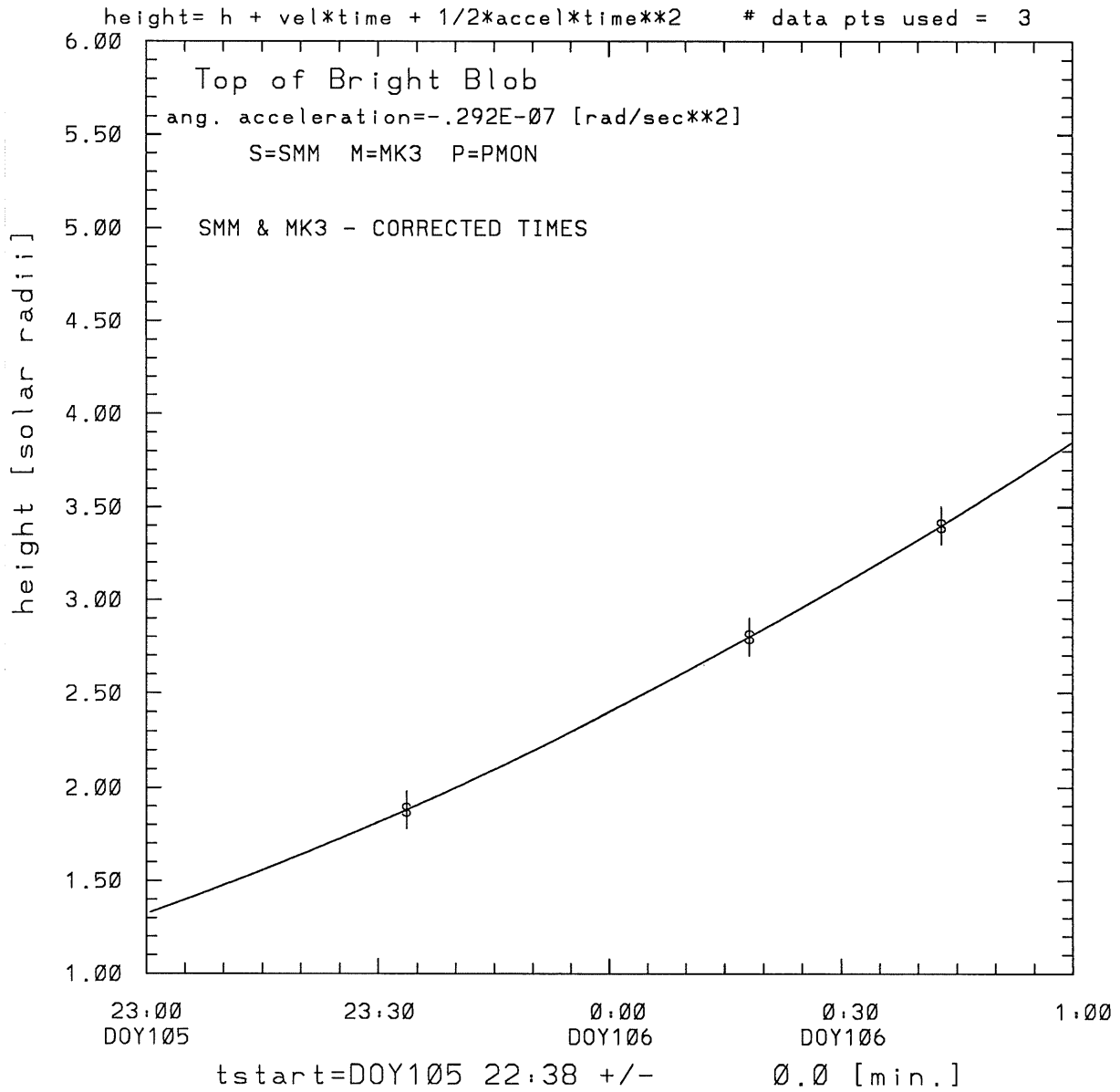
SMM C/P 1988 DOY105 85 +/- 16 degrees

angle= initial angle + angular velocity*time # data pts used = 3



tstart=DOY105 22:54 +/- 0.2 [min.]
angular velocity=0.128E-03 +/- 0.106E-04 [rad/sec]

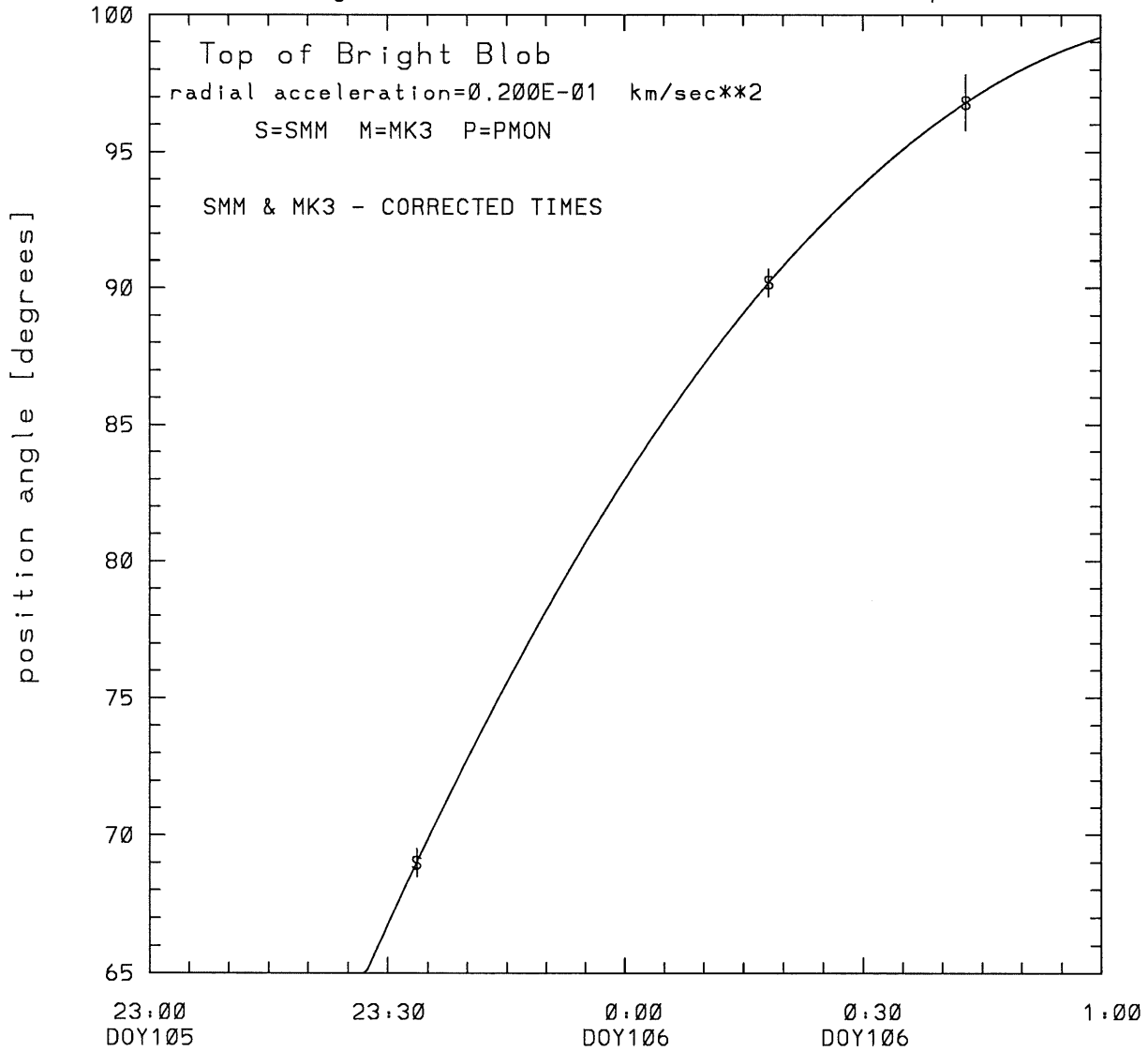
SMM C/P 1988 DOY105 85 +/- 16 degrees



radial acceleration = $0.0200 +/- 0.0000$ [km/sec**2]

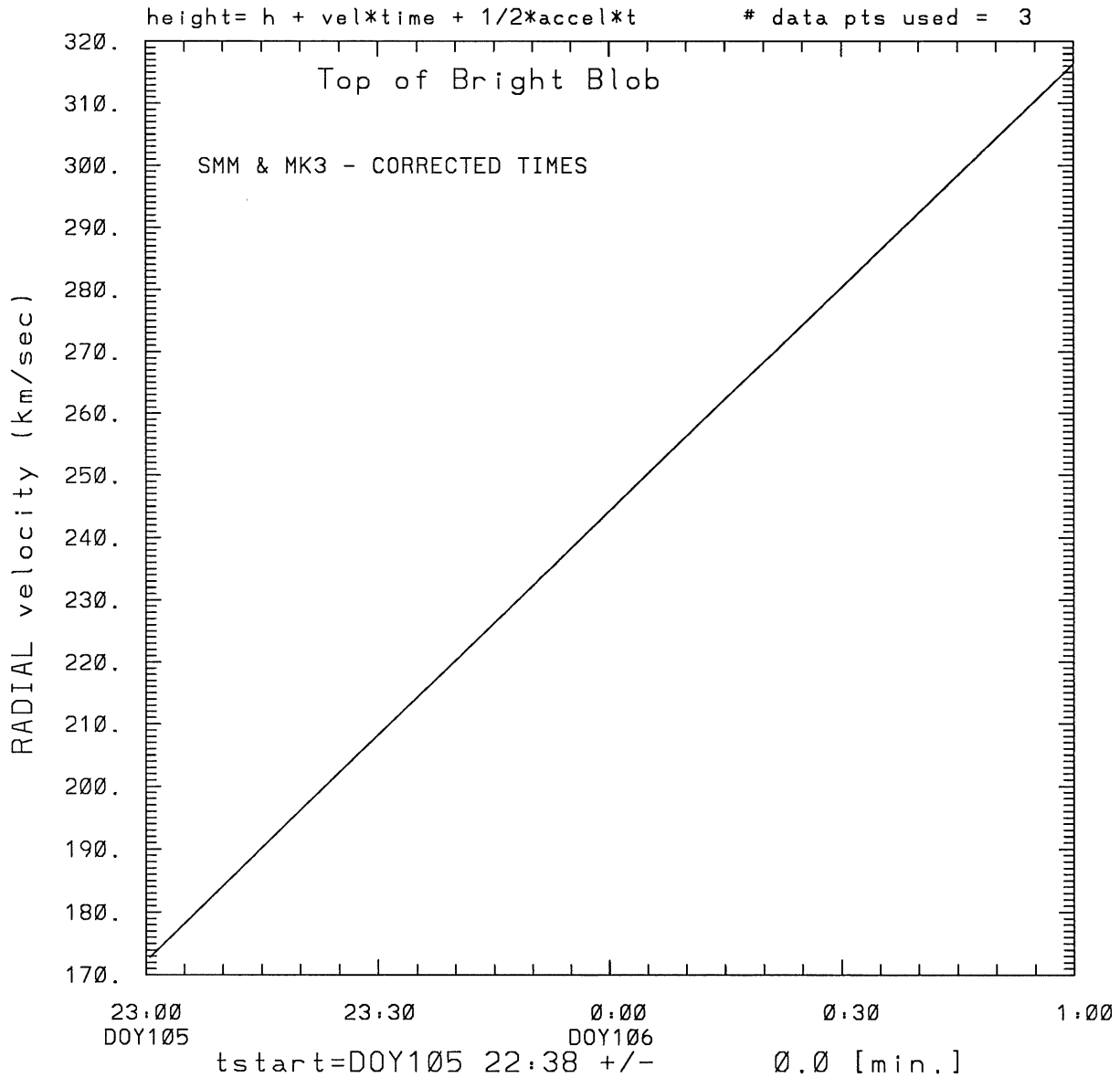
SMM C/P 1988 DOY105 85 +/- 16 degrees

angle= initial angle + angular velocity*time
+ 1/2 angular acceleration*time**2 # data pts used = 3



tstart=DOY105 22:38 +/- 0.0 [min.]
angular acceleration=-.292E-07 +/- 0.968E-13 [rad/sec**2]

SMM C/P 1988 DOY105 85 +/- 16 degrees

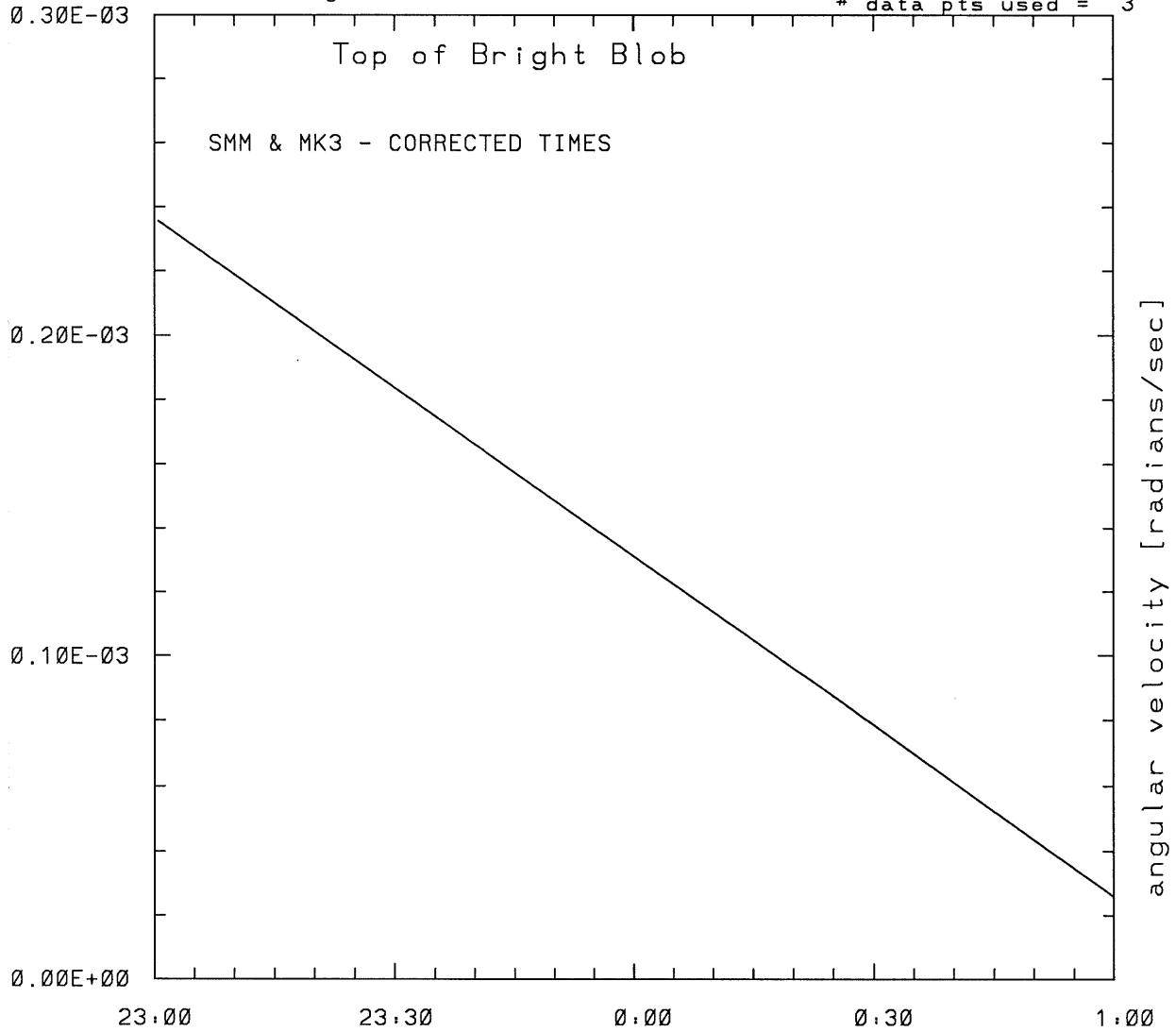


radial acceleration = $0.200E-01$ km/sec**2

SMM C/P 1988 DOY105 85 +/- 16 degrees

$$\text{angle} = \text{initial angle} + \text{angular velocity} * \text{time} + \frac{1}{2} \text{angular acceleration} * \text{time} ** 2$$

data pts used = 3



23:00
DOY105

23:30

0:00
DOY106

0:30

1:00

tstart=DOY105 22:38 +/- 0.0 [min.]
angular acceleration=-.292E-07 +/-
0.968E-13 [rad/sec**2]

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	105	23:33:38	1.88 +/- 0.10	69.0 +/- 0.5			SMM
1988	106	0:18:13	2.80 +/- 0.10	90.2 +/- 0.5			SMM
1988	106	0:42:59	3.40 +/- 0.10	96.8 +/- 1.0			SMM

Structure being measured:

Top of Bright Blob

(prom?)

OUTPUT:

START TIME:

Event began at t = 0 + -0.619E+01 +/- 0.164E+00 [minutes]

In more convenient units:

Event began at DOY 105 22:54 +/- 0.164E+00 [minutes]

Origin defined at DOY105 23: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 252. +/- 8. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.113E+01 +/- 0.506E-01 [solar radii]
c(2) = 0.218E-01 +/- 0.655E-03 [radii/min]
c(2) = 0.252E+03 +/- 0.760E+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)= 0.71489E-01 [radii] see Bevington pg. 114

error in c(2)= 0.92666E-03 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.1277E-03 +/- 0.1065E-04[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 55. +/- 2. [degrees]
a(2) = 0.439E+00 +/- 0.366E-01 [degrees/min]
a(2) = 0.128E-03 +/- 0.106E-04 [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 23:33 = 252. km/sec

The RADIAL velocity at 0:18 = 252. km/sec

The RADIAL velocity at 0:42 = 252. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.77
Standard Deviation in start time measurement = 0.287E+02
Error in time = 0.21161E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.106E-02
Reduced Chi Squared = 0.464E-02
Chi Squared = 0.464E-02
The probability for exceeding chi square = 0.974E+00

The correlation coefficient = 0.999E+00
The probability that no LINEAR correlation exists between the variables = 0.27061
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
1988	105	23:33:38	1.88 +/-	0.10	69.0 +/-	0.5	SMM
1988	106	0:18:13	2.80 +/-	0.10	90.2 +/-	0.5	SMM
1988	106	0:42:59	3.40 +/-	0.10	96.8 +/-	1.0	SMM

Structure being measured:
Top of Bright Blob

OUTPUT:

START TIME:

Event began at t = 0 + -0.237E+02 +/- 0.000E+00 [minutes]
In more convenient units:
Event began at DOY 105 22:38 +/- 0.000E+00 [minutes]

Origin defined at DOY105 23: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.200E-01 +/- 0.518E-07 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.132E+01 +/- 0.519E-06 [solar radii]
c(2) = 0.148E-01 +/- 0.181E-07 [radii/min]
c(2) = 0.172E+03 +/- 0.210E-03 [km/sec]
c(3) = 0.518E-04 +/- 0.134E-09 [radii/min**2]
c(3) = 0.200E-01 +/- 0.518E-07 [km/sec**2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= -0.2923E-07 +/- 0.9675E-13[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 45. +/- 0. [degrees]
a(2) = 0.813E+00 +/- 0.125E-05 [degrees/min]
a(2) = 0.236E-03 +/- 0.363E-09 [rad/sec]
a(3) = -0.301E-02 +/- 0.998E-08 [degrees/min**2]
a(3) = -0.292E-07 +/- 0.968E-13 [rad/sec**2]

The RADIAL velocity at 23:33 = 213. km/sec

The RADIAL velocity at 0:18 = 266. km/sec

The RADIAL velocity at 0:42 = 296. 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!