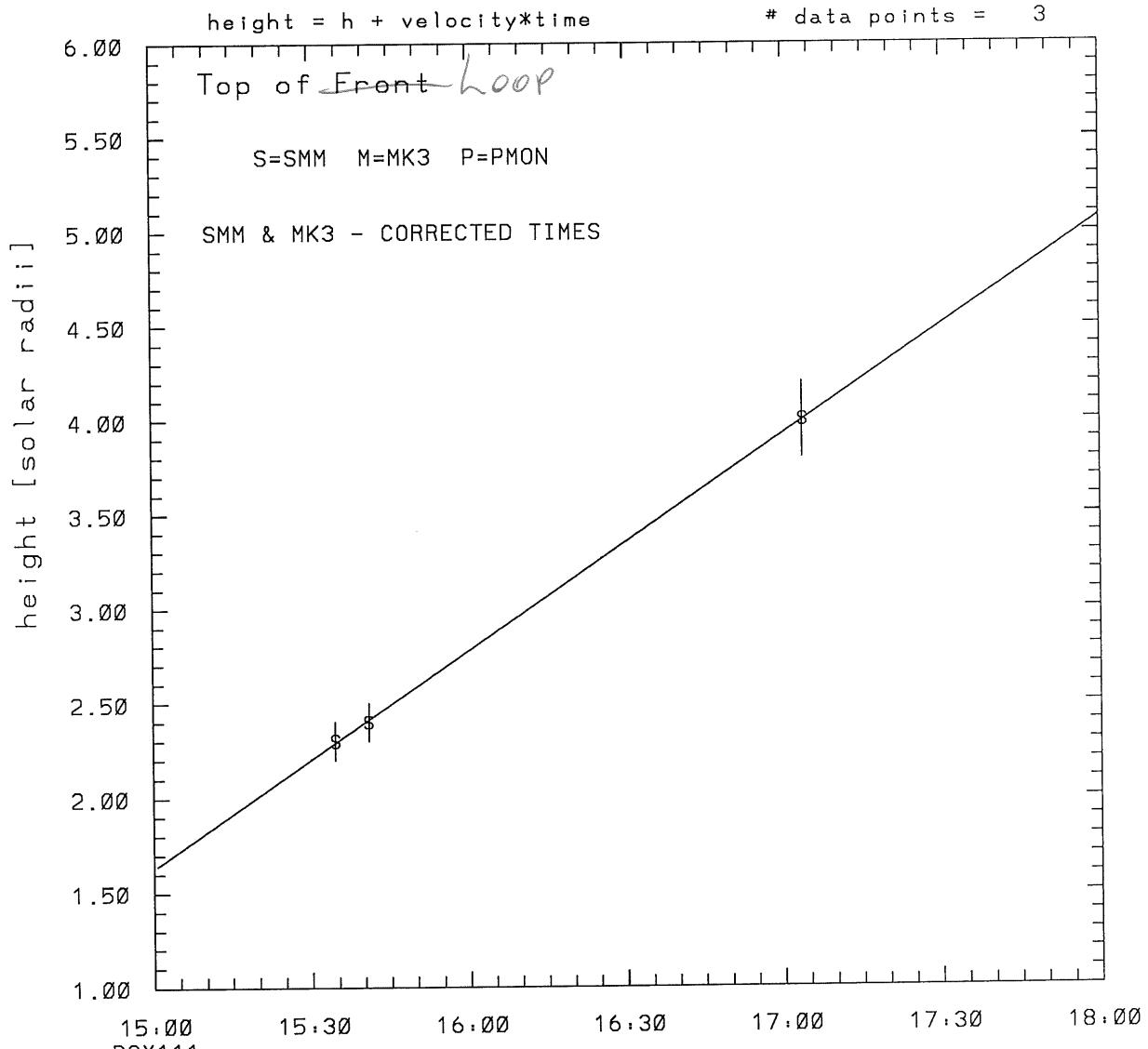




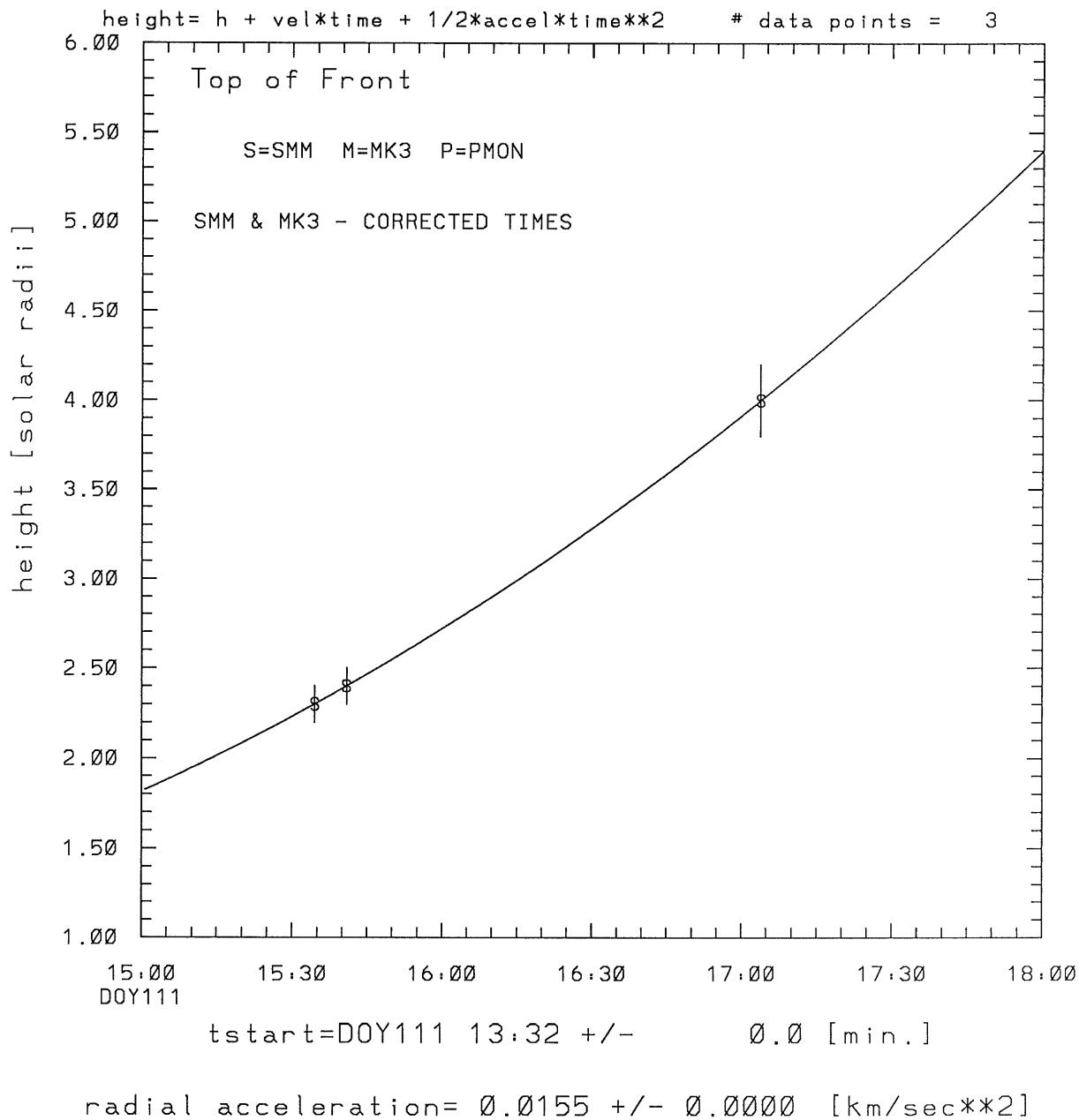
SMM C/P 1980 DOY111 310 +/- 0 degrees



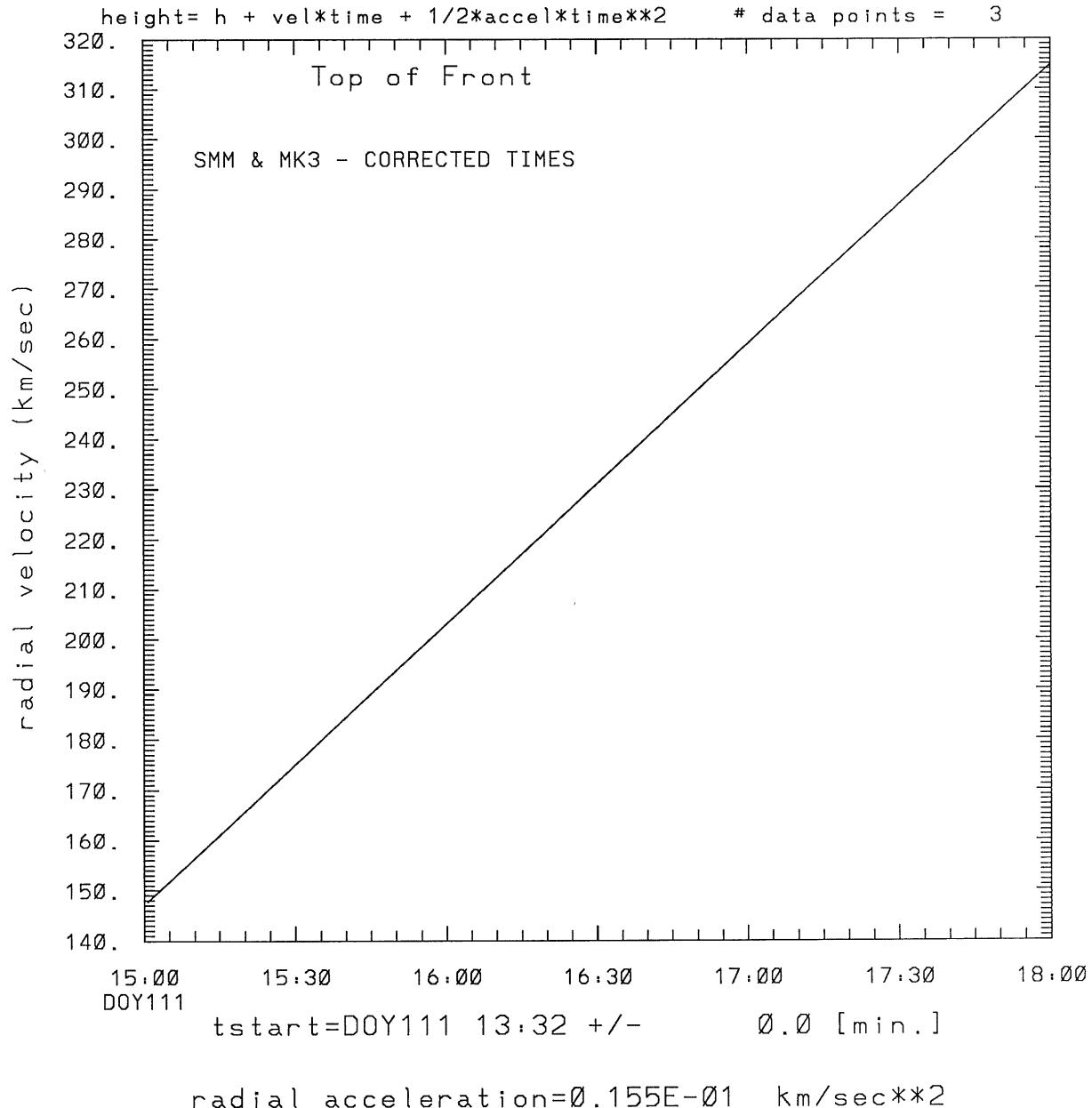
tstart=DOY111 14:29 +/- 0.3 [min.]

radial velocity= 222. +/- 3. [km/sec]

SMM C/P 1980 DOY111 310 +/- 0 degrees



SMM C/P 1980 DOY111 310 +/- 0 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	angle	angle	datatype
1980	111	15:34:31	2.30	+/- 0.10	310.0	+/- 0.5	SMM
1980	111	15:40:53	2.40	+/- 0.10	310.0	+/- 0.5	SMM
1980	111	17: 3:49	4.00	+/- 0.20	310.0	+/- 1.0	SMM

Structure being measured:

Top of Front

OUTPUT:

START TIME:

Event began at t = 0 + -0.329E+02 +/- 0.278E+00 [minutes]

In more convenient units:

Event began at DOY 111 14:29 +/- 0.278E+00 [minutes]

Origin defined at DOY111 15: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 222. +/- 3. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.163E+01 +/- 0.146E-01 [solar radii]

c(2) = 0.191E-01 +/- 0.267E-03 [radii/min]

c(2) = 0.222E+03 +/- 0.310E+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)= 0.17353E-01 [radii] see Bevington pg. 114

error in c(2)= 0.22283E-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) = 310. +/- 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 15:34 = 0.000E+00 km/sec

The TOTAL velocity at 15:34 = 222. km/sec

The TANGENTIAL velocity at 15:40 = 0.000E+00 km/sec

The TOTAL velocity at 15:40 = 222. km/sec

The TANGENTIAL velocity at 17: 3 = 0.000E+00 km/sec

The TOTAL velocity at 17: 3 = 222. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.95

Standard Deviation in start time measurement = 0.407E+02

Error in time = 0.82121E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.159E-03

Reduced Chi Squared = 0.394E-03

Chi Squared = 0.394E-03

The probability for exceeding chi square = 0.990E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.7303E-02

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

This is a 2 order run

INPUT:

year	doy	time	radii	radius	angle	angle	datatype
1980	111	15:34:31	2.30	+/- 0.10	310.0	+/- 0.5	SMM
1980	111	15:40:53	2.40	+/- 0.10	310.0	+/- 0.5	SMM
1980	111	17: 3:49	4.00	+/- 0.20	310.0	+/- 1.0	SMM

Structure being measured:

Top of Front

OUTPUT:

START TIME:

Event began at t = 0 + -0.897E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 111 13:32 +/- 0.000E+00 [minutes]

Origin defined at DOY111 15: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.155E-01 +/- 0.508E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.181E+01 +/- 0.609E-05 [solar radii]
c(2) = 0.127E-01 +/- 0.211E-06 [radii/min]
c(2) = 0.147E+03 +/- 0.245E-02 [km/sec]
c(3) = 0.402E-04 +/- 0.131E-08 [radii/min**2]
c(3) = 0.155E-01 +/- 0.508E-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) = 310. +/- 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 15:34 = 0.000E+00 km/sec
The TOTAL velocity at 15:34 = 179. km/sec

The TANGENTIAL velocity at 15:40 = 0.000E+00 km/sec
The TOTAL velocity at 15:40 = 185. km/sec

The TANGENTIAL velocity at 17: 3 = 0.000E+00 km/sec
The TOTAL velocity at 17: 3 = 262. 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!