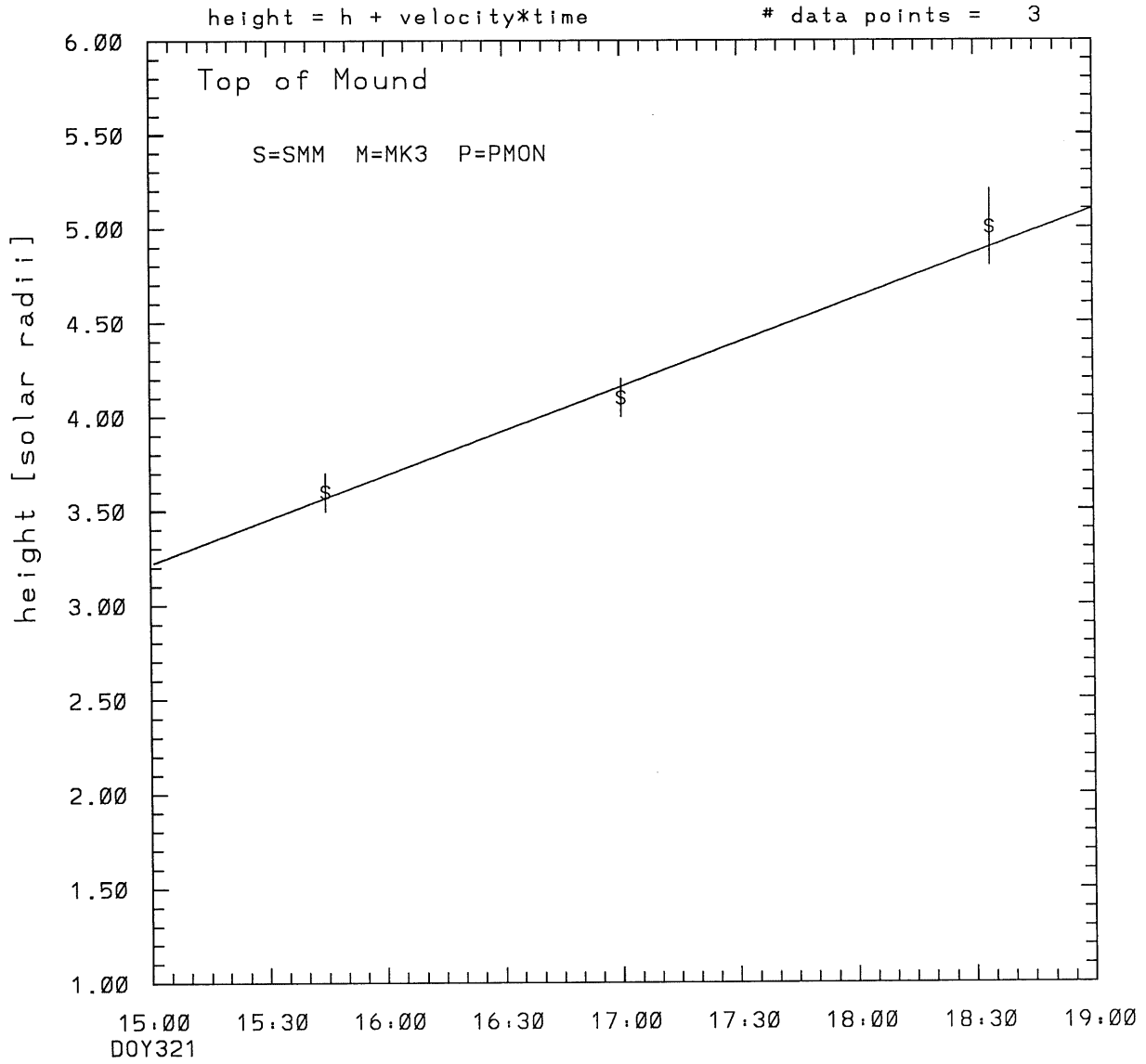
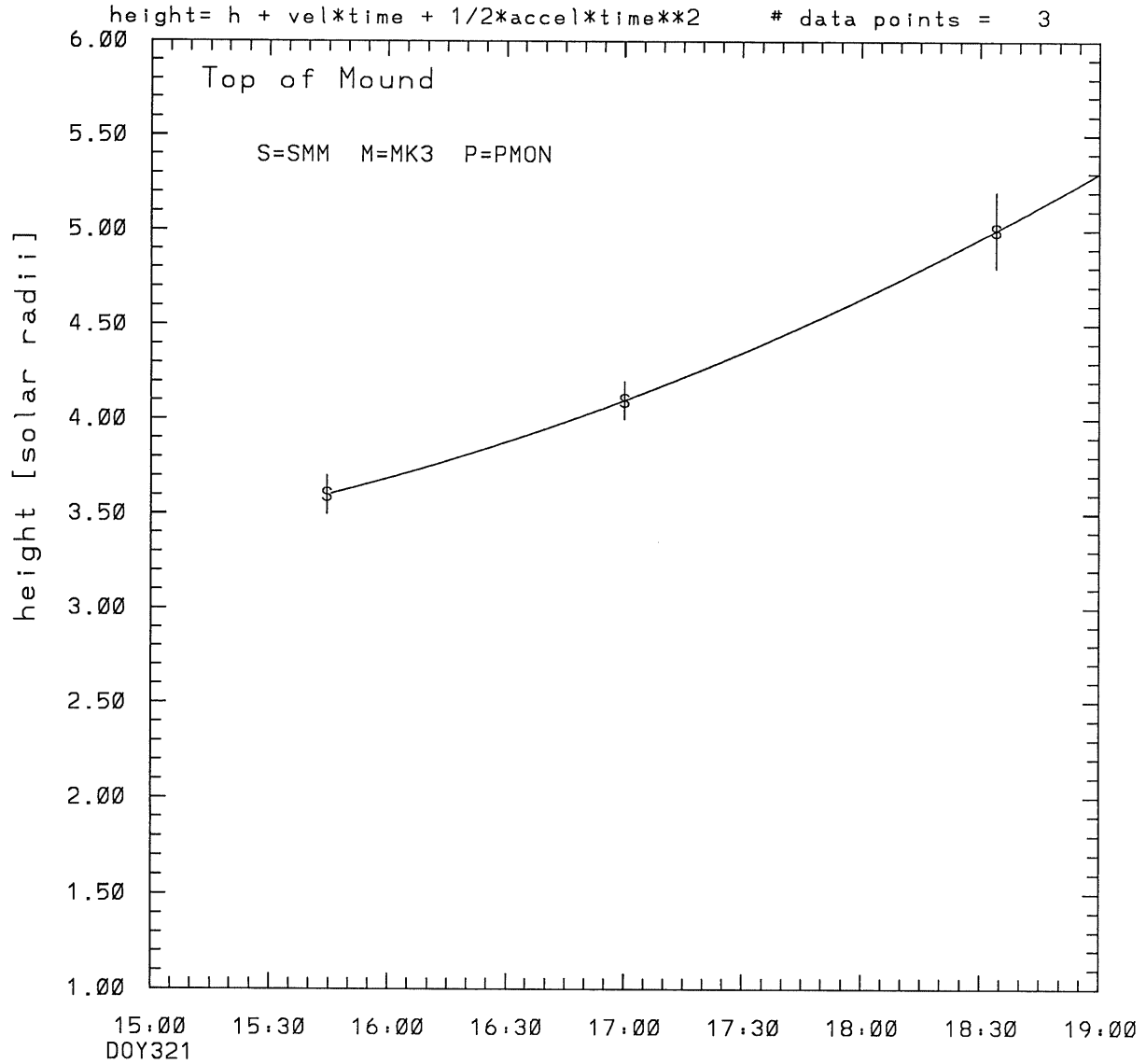


SMM C/P 1984 DOY321 290 +/- 0 degrees



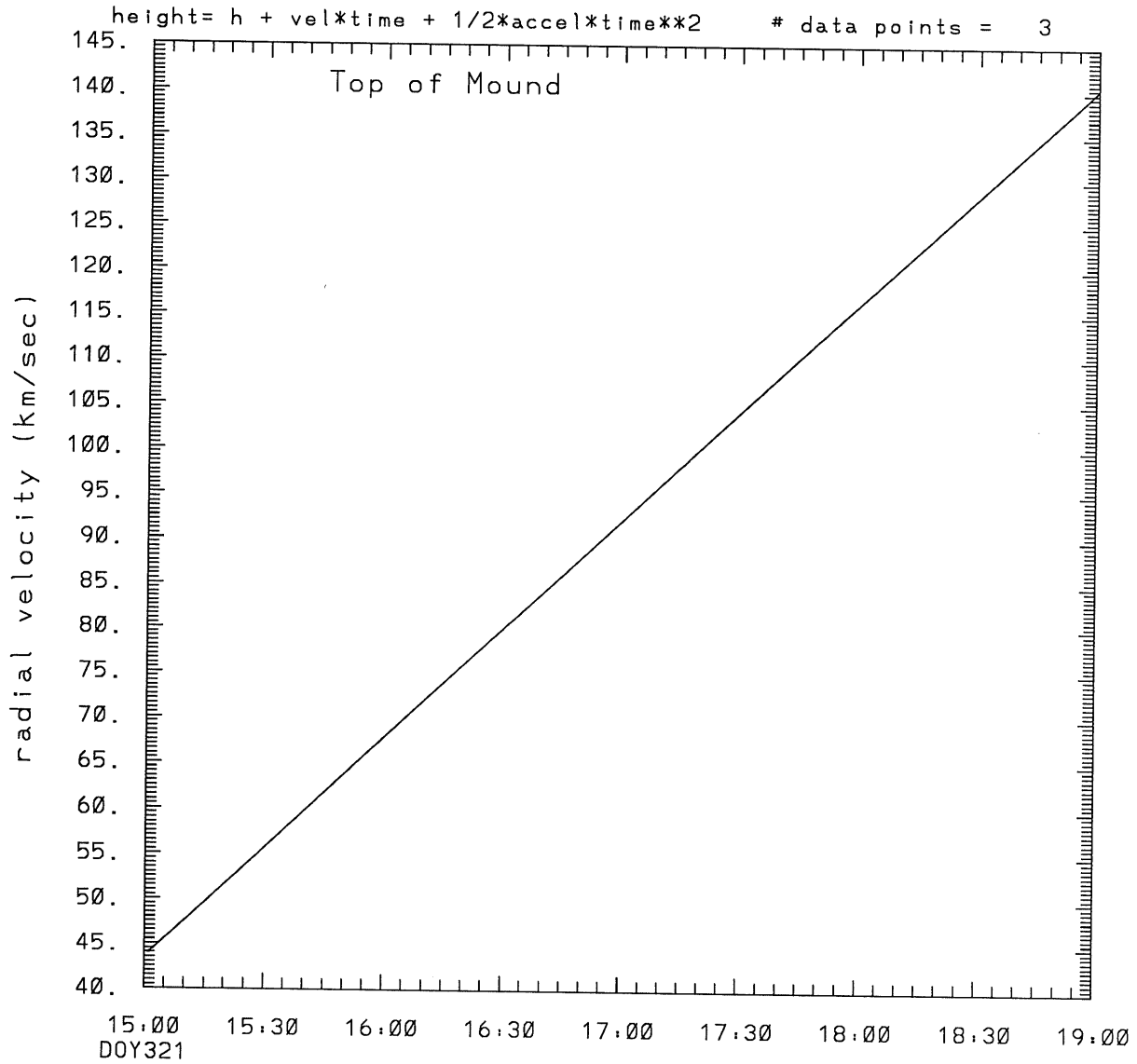
tstart=DOY321 10:17 +/- 20.6 [min.]
radial velocity= 91. +/- 9. [km/sec]

SMM C/P 1984 DOY321 290 +/- 0 degrees



tstart=DOY321 13.13 from derivative=0
Event begins at 3.20 Solar Radii
radial acceleration = 0.0067 +/- 0.0000 [km/sec**2]

SMM C/P 1984 DOY321 290 +/- 0 degrees



15:00 DOY321 15:30 16:00 16:30 17:00 17:30 18:00 18:30 19:00

tstart=DOY321 13:13 from derivative=0
Event begins at 3.20 Solar Radii
radial acceleration=0.673E-02 km/sec**2

This is a 1 order run

INPUT:

year	day	time	radii	radius	error in	angle	angle	error in	datatype
1984	321	15:44:37	3.60	+/- 0.10	290.0	+/- 1.0			SMM
1984	321	17: 0: 7	4.10	+/- 0.10	290.0	+/- 1.0			SMM
1984	321	18:34: 7	5.00	+/- 0.20	290.0	+/- 1.0			SMM

Structure being measured:
Top of Mound

OUTPUT:

START TIME:

Event began at $t = 0 + -0.283E+03 +/- 0.206E+02$ [minutes]
In more convenient units:
Event began at DOY 321 10:17 +/- 0.206E+02 [minutes]

Origin defined at DOY321 15: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 91. +/- 9. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.322E+01 +/- 0.819E-01 [solar radii]
c(2) = 0.783E-02 +/- 0.736E-03 [radii/min]
c(2) = 0.909E+02 +/- 0.854E+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)= 0.14939E+00 [radii] see Bevington pg. 114

error in c(2)= 0.10370E-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) = 290. +/- 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 15:44 = 0.000E+00 km/sec

The TOTAL velocity at 15:44 = 91. km/sec

The TANGENTIAL velocity at 17: 0 = 0.000E+00 km/sec

The TOTAL velocity at 17: 0 = 91. km/sec

The TANGENTIAL velocity at 18:34 = 0.000E+00 km/sec

The TOTAL velocity at 18:34 = 91. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.71

Standard Deviation in start time measurement = 0.693E+02

Error in time = 0.15897E+02 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.485E-02

Reduced Chi Squared = 0.409E-01

Chi Squared = 0.409E-01

The probability for exceeding chi square = 0.944E+00

The correlation coefficient = 0.995E+00

The probability that no LINEAR correlation exists between the variables = 0.6402E-01

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

This is a 2 order run

INPUT:

year	doy	time	radii	error in radius	angle	error in angle	datatype
1984	321	15:44:37	3.60	+/- 0.10	290.0	+/- 1.0	SMM
1984	321	17: 0: 7	4.10	+/- 0.10	290.0	+/- 1.0	SMM
1984	321	18:34: 7	5.00	+/- 0.20	290.0	+/- 1.0	SMM

Structure being measured:
Top of Mound

OUTPUT:

START TIME:

tstart=DOY321 13:13 from derivative = 0
Event begins at 3.20 Solar Radii
Origin defined at DOY321 15: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.673E-02 +/- 0.326E-07 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.340E+01 +/- 0.104E-05 [solar radii]
c(2) = 0.375E-02 +/- 0.204E-07 [radii/min]
c(2) = 0.435E+02 +/- 0.237E-03 [km/sec]
c(3) = 0.174E-04 +/- 0.843E-10 [radii/min**2]
c(3) = 0.673E-02 +/- 0.326E-07 [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) = 290. +/- 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 15:44 = 0.000E+00 km/sec

The TOTAL velocity at 15:44 = 62. km/sec

The TANGENTIAL velocity at 17: 0 = 0.000E+00 km/sec

The TOTAL velocity at 17: 0 = 92. km/sec

The TANGENTIAL velocity at 18:34 = 0.000E+00 km/sec

The TOTAL velocity at 18:34 = 130. 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!