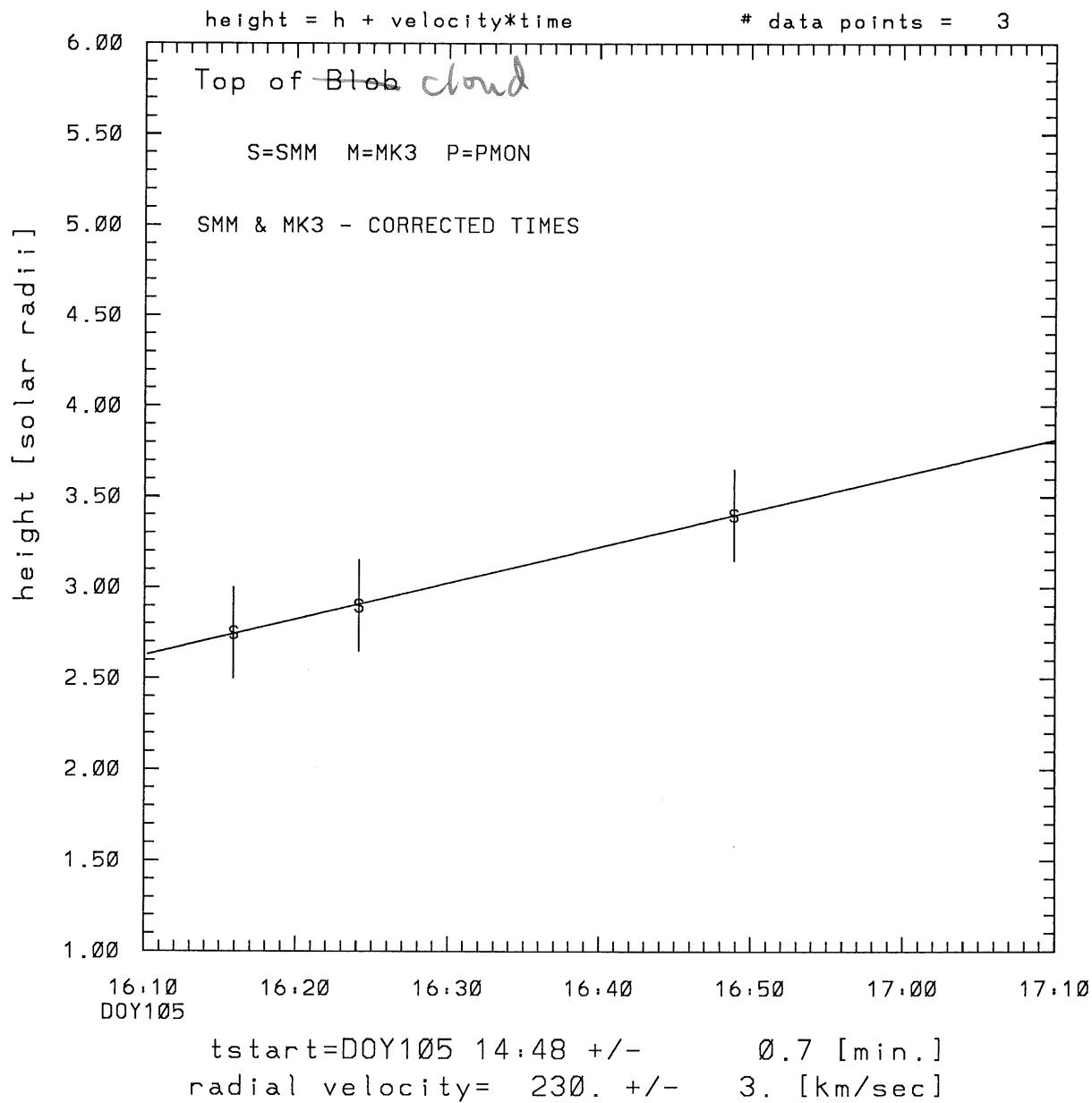
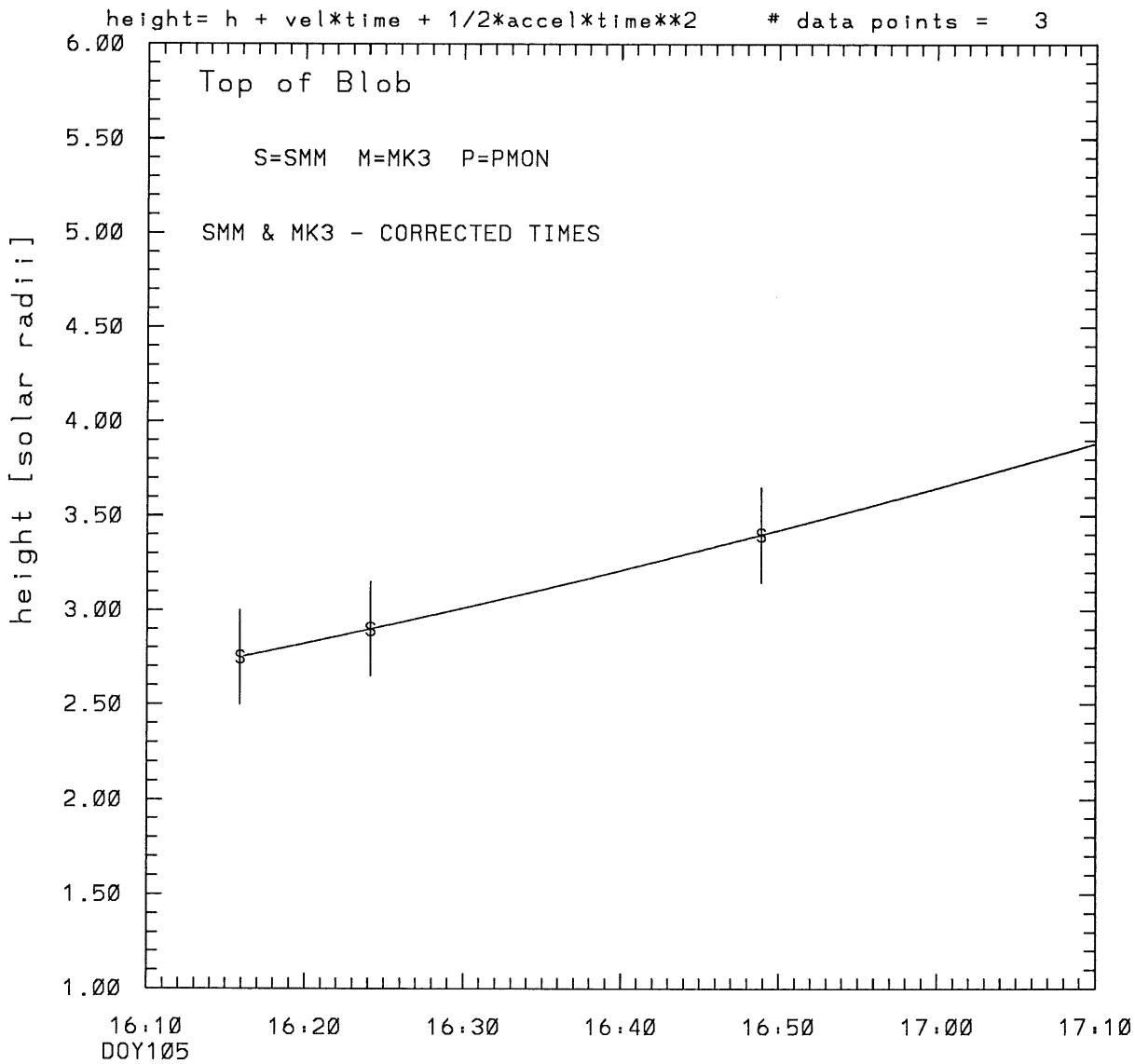


SMM C/P 1987 DOY105 242 +/- 0 degrees

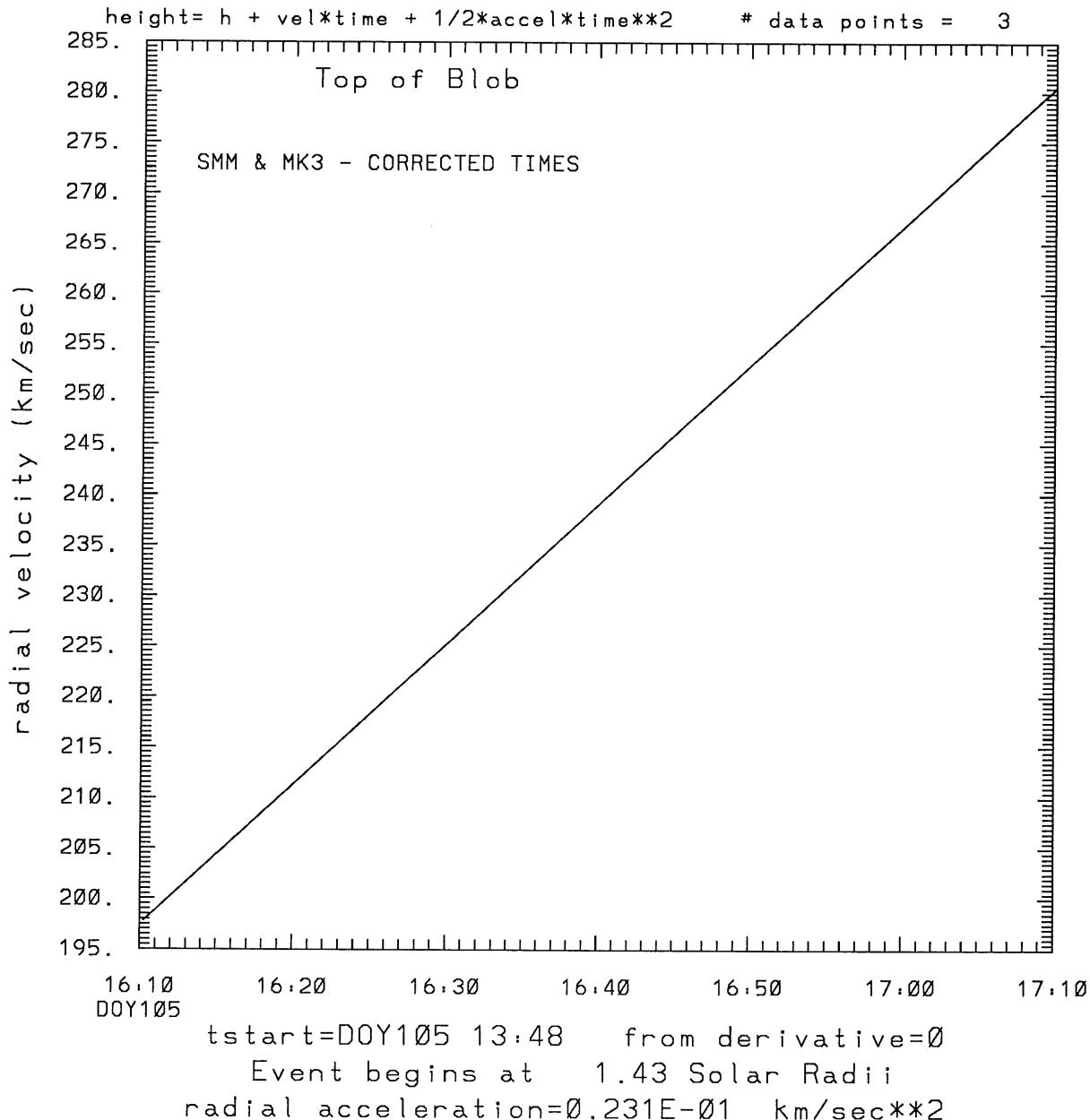


SMM C/P 1987 DOY105 242 +/- 0 degrees



tstart=DOY105 13:48 from derivative=0  
Event begins at 1.43 Solar Radii  
radial acceleration= 0.0231 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1987 DOY105 242 +/- 0 degrees



\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

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year	doy	time	radii	radius	error in angle	error in angle	datatype
1987	105	16:15:54	2.75	+/- 0.25	242.0	+/- 0.5	SMM
1987	105	16:24: 8	2.90	+/- 0.25	242.0	+/- 0.5	SMM
1987	105	16:48:54	3.40	+/- 0.25	242.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Blob *C. Knud*

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.822E+02 +/- 0.690E+00 [minutes]

In more convenient units:

Event began at DOY 105 14:48 +/- 0.690E+00 [minutes]

Origin defined at DOY105 16:10

RADIAL INFORMATION:

RADIAL VELOCITY = 230. +/- 3. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.263E+01 +/- 0.671E-02 [solar radii]

c(2) = 0.198E-01 +/- 0.278E-03 [radii/min]

c(2) = 0.230E+03 +/- 0.322E+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)= 0.94861E-02 [radii] see Bevington pg. 114

error in c(2)= 0.39301E-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) = 242. +/- 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 16:15 = 0.000E+00 km/sec

The TOTAL velocity at 16:15 = 230. km/sec

The TANGENTIAL velocity at 16:24 = 0.000E+00 km/sec

The TOTAL velocity at 16:24 = 230. km/sec

The TANGENTIAL velocity at 16:48 = 0.000E+00 km/sec

The TOTAL velocity at 16:48 = 230. km/sec

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The following info is for estimating goodness of the fit

\*\*\*\*\*  
\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.34

Standard Deviation in start time measurement = 0.140E+02

Error in time = 0.48190E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.456E-04

Reduced Chi Squared = 0.154E-03

Chi Squared = 0.154E-03

The probability for exceeding chi square = 0.995E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.1260E-01

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

\*\*\*\*\*

This is a 2 order run

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\*\*\*\*\*

INPUT:

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year	doy	time	radii	radius	error in angle	error in angle	datatype
1987	105	16:15:54	2.75	+/- 0.25	242.0	+/- 0.5	SMM
1987	105	16:24: 8	2.90	+/- 0.25	242.0	+/- 0.5	SMM
1987	105	16:48:54	3.40	+/- 0.25	242.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Blob

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OUTPUT:

\*\*\*\*\*

START TIME:

tstart=DOY105 13:48 from derivative = 0

Event begins at 1.43 Solar Radii

Origin defined at DOY105 16:10

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.231E-01 +/- 0.998E-06 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.265E+01 +/- 0.957E-06 [solar radii]  
c(2) = 0.170E-01 +/- 0.122E-06 [radii/min]  
c(2) = 0.197E+03 +/- 0.141E-02 [km/sec]  
c(3) = 0.597E-04 +/- 0.258E-08 [radii/min\*\*2]  
c(3) = 0.231E-01 +/- 0.998E-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) = 242, +/- 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 16:15 = 0.000E+00 km/sec

The TOTAL velocity at 16:15 = 206. km/sec

The TANGENTIAL velocity at 16:24 = 0.000E+00 km/sec

The TOTAL velocity at 16:24 = 217. km/sec

The TANGENTIAL velocity at 16:48 = 0.000E+00 km/sec

The TOTAL velocity at 16:48 = 251. km/sec

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The following info is for estimating goodness of the fit

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

Correlation coefficient is not computable!