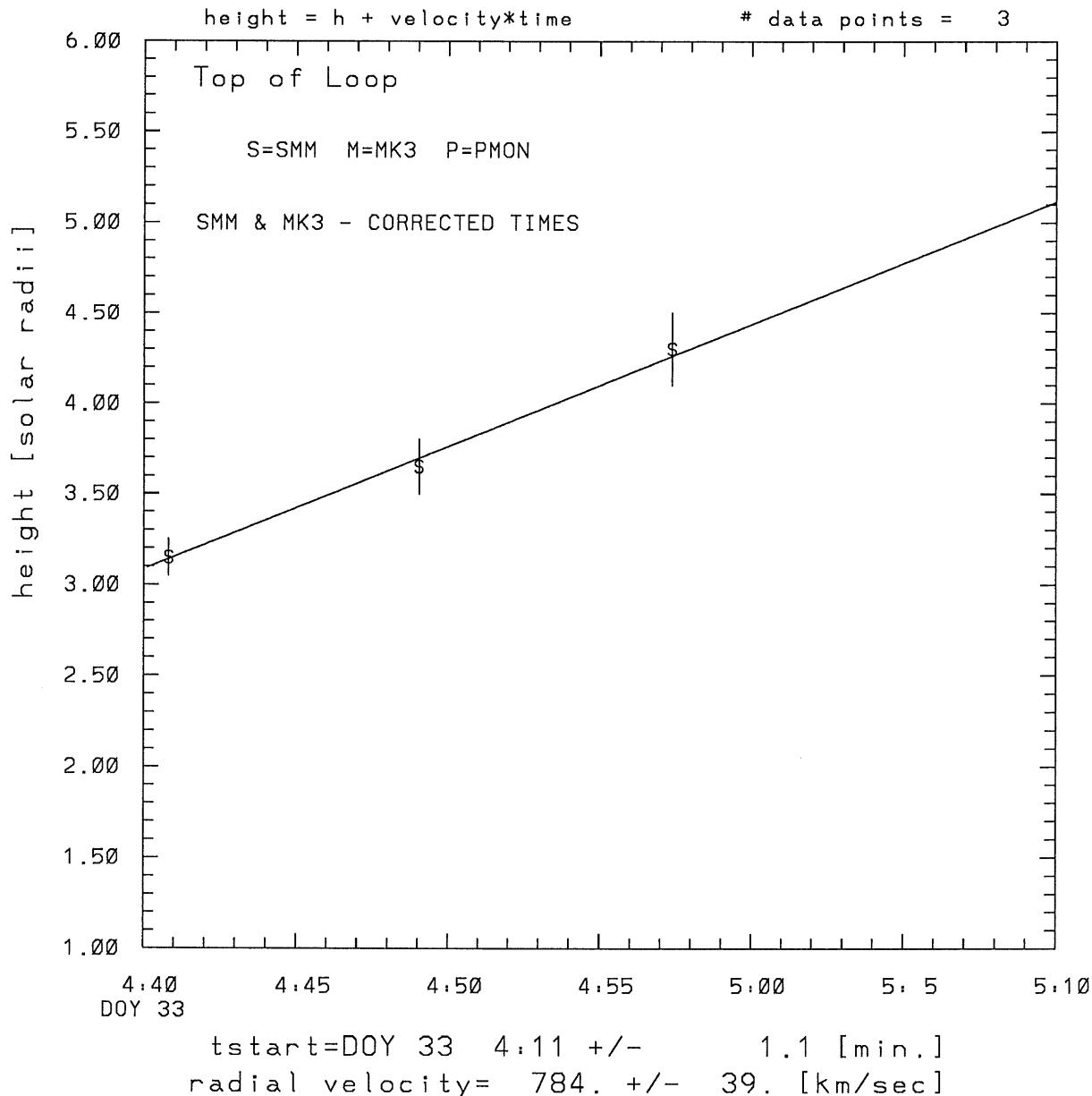
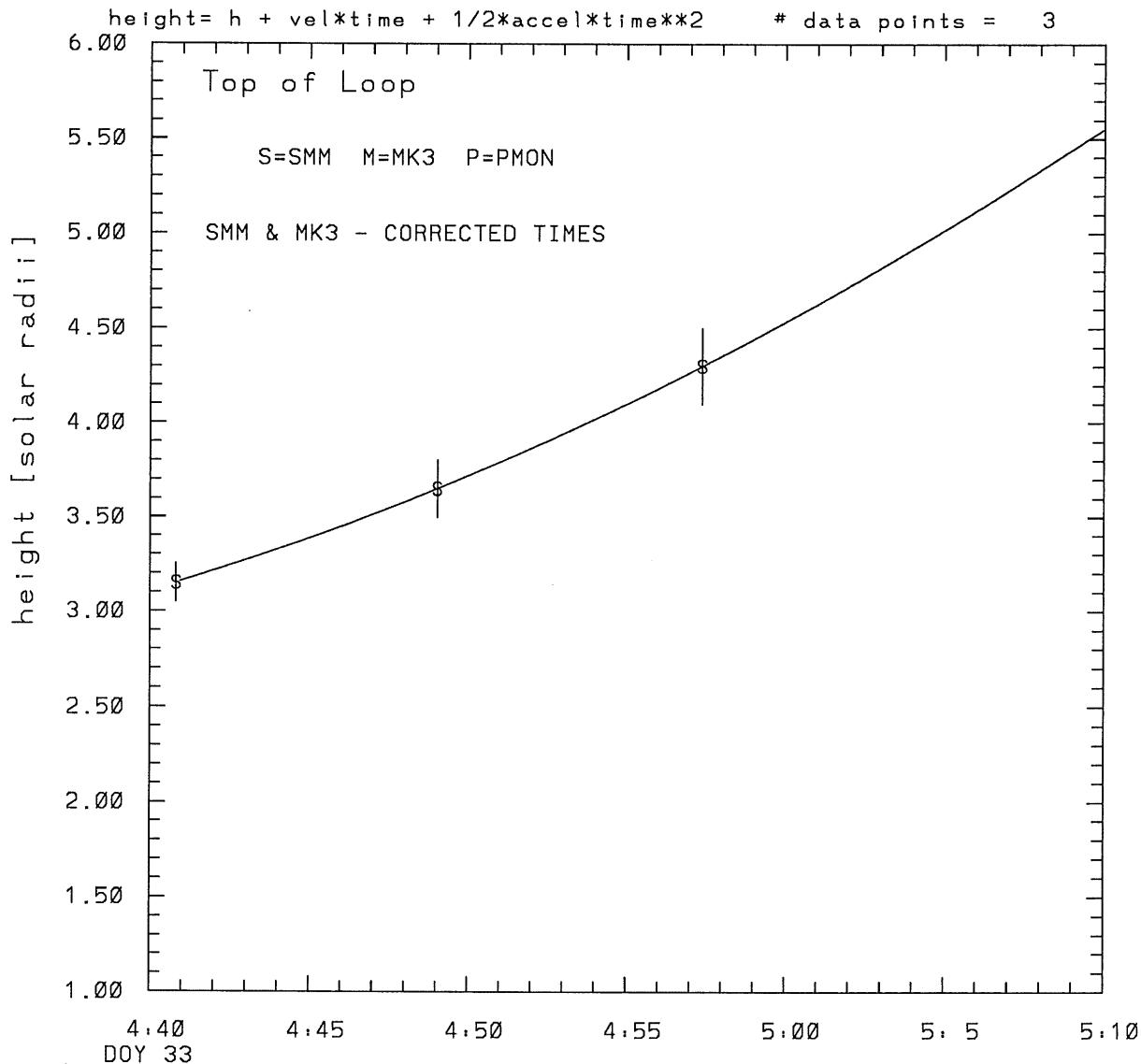


SMM C/P 1988 DOY 33 135 +/- 0 degrees

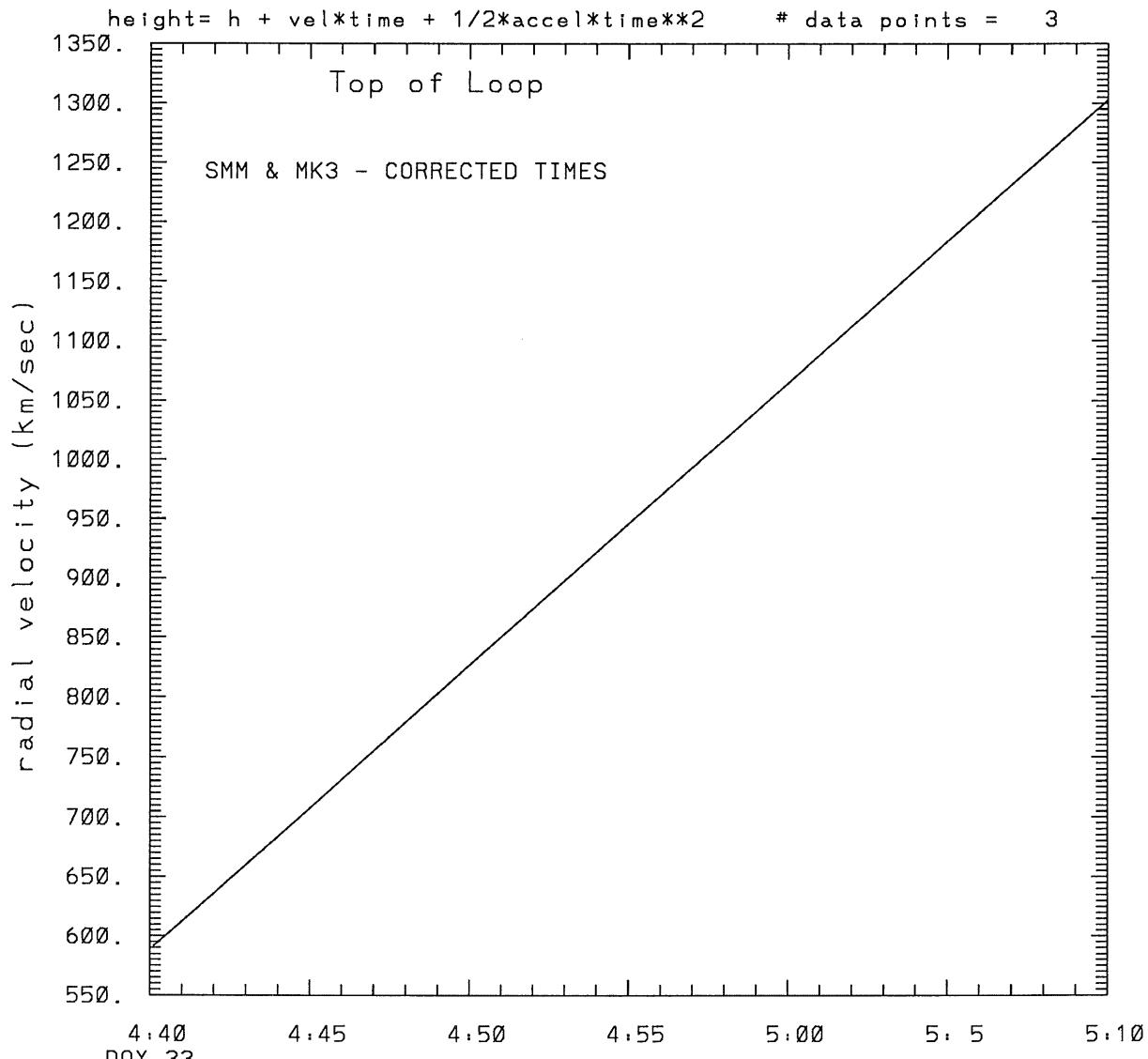


SMM C/P 1988 DOY 33 135 +/- 0 degrees



tstart=DOY 33 4:16 from derivative=0  
Event begins at 2.48 Solar Radii  
radial acceleration= 0.3966 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1988 DOY 33 135 +/- 0 degrees



tstart=DOY 33 4:16 from derivative=0  
Event begins at 2.48 Solar Radii  
radial acceleration=0.397E+00 km/sec\*\*2

\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in radii	angle	angle	error in angle	datatype
1988	33	4:40:49	3.15	+/- 0.10	135.0	+/- 1.0	1.0	SMM	
1988	33	4:49: 2	3.65	+/- 0.15	135.0	+/- 1.0	1.0	SMM	
1988	33	4:57:23	4.30	+/- 0.20	135.0	+/- 1.0	1.0	SMM	

\*\*\*\*\*

Structure being measured:

Top of Loop

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.308E+02 +/- 0.107E+01 [minutes]

In more convenient units:

Event began at DOY 33 4:11 +/- 0.107E+01 [minutes]

Origin defined at DOY 33 4:40

RADIAL INFORMATION:

RADIAL VELOCITY = 784. +/- 39. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.308E+01 +/- 0.274E-01 [solar radii]

c(2) = 0.676E-01 +/- 0.336E-02 [radii/min]

c(2) = 0.784E+03 +/- 0.390E+02 [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)= 0.59304E-01 [radii] see Bevington pg. 114

error in c(2)= 0.52387E-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) = 135. +/- 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 4:40 = 0. km/sec

The TOTAL velocity at 4:40 = 784. km/sec

The TANGENTIAL velocity at 4:49 = 0. km/sec

The TOTAL velocity at 4:49 = 784. km/sec

The TANGENTIAL velocity at 4:57 = 0. km/sec

The TOTAL velocity at 4:57 = 784. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.58

Standard Deviation in start time measurement = 0.676E+01

Error in time = 0.90763E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.126E-02

Reduced Chi Squared = 0.903E-02

Chi Squared = 0.903E-02

The probability for exceeding chi square = 0.972E+00

The correlation coefficient = 0.998E+00

The probability that no LINEAR correlation exists between the variables = 0.4488E-01

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

\*\*\*\*\*

This is a 2 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in radii	angle	angle	error in angle	datatype
1988	33	4:40:49	3.15	+/- 0.10		135.0	+/- 1.0		SMM
1988	33	4:49: 2	3.65	+/- 0.15		135.0	+/- 1.0		SMM
1988	33	4:57:23	4.30	+/- 0.20		135.0	+/- 1.0		SMM

\*\*\*\*\*

Structure being measured:

Top of Loop

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\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

tstart=DOY 33 4:16 from derivative = 0

Event begins at 2.48 Solar Radii

Origin defined at DOY 33 4:40

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.397E+00 +/- 0.324E-04 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.311E+01 +/- 0.370E-05 [solar radii]  
c(2) = 0.508E-01 +/- 0.143E-05 [radii/min]  
c(2) = 0.589E+03 +/- 0.166E-01 [km/sec]  
c(3) = 0.103E-02 +/- 0.839E-07 [radii/min\*\*2]  
c(3) = 0.397E+00 +/- 0.324E-04 [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) = 135. +/- 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 4:40 = 0. km/sec  
The TOTAL velocity at 4:40 = 608. km/sec

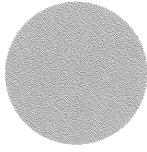
The TANGENTIAL velocity at 4:49 = 0. km/sec  
The TOTAL velocity at 4:49 = 804. km/sec

The TANGENTIAL velocity at 4:57 = 0. km/sec  
The TOTAL velocity at 4:57 = 1002. km/sec

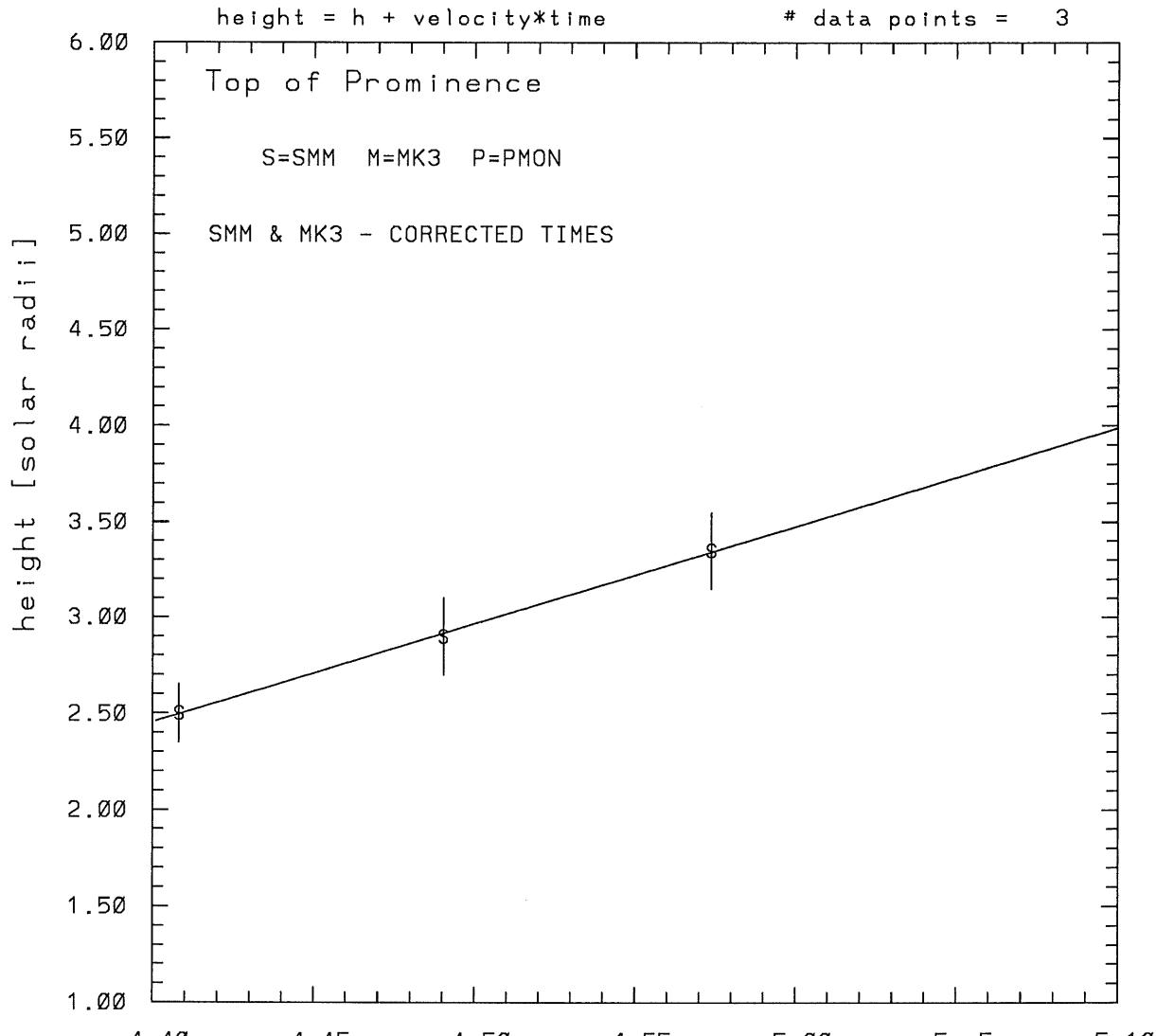
\*\*\*\*\*  
The following info is for estimating goodness of the fit  
\*\*\*\*\*

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

Correlation coefficient is not computable!



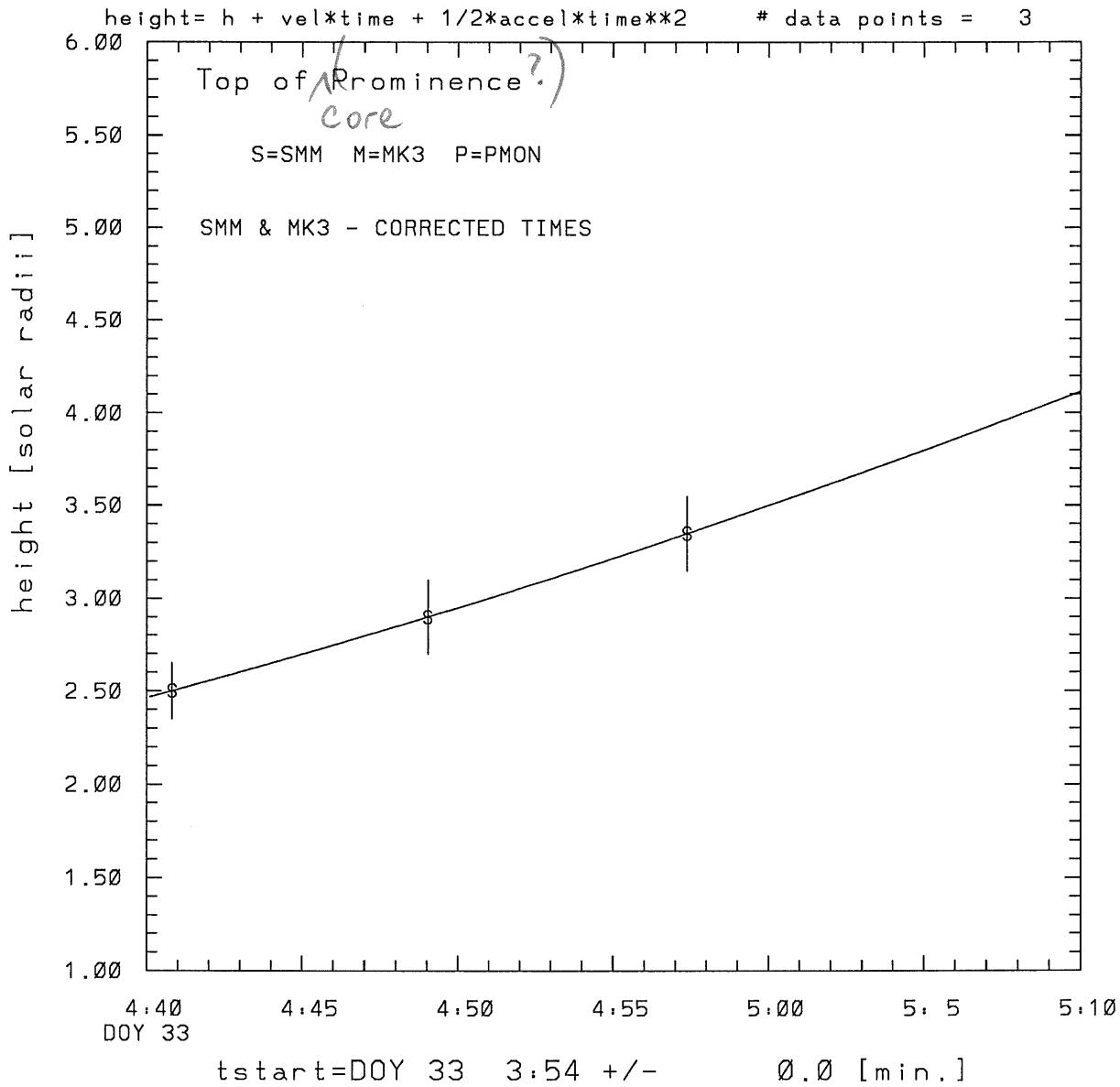
SMM C/P 1988 DOY 33 135 +/- 0 degrees



tstart=DOY 33 4:12 +/- 0.3 [min.]

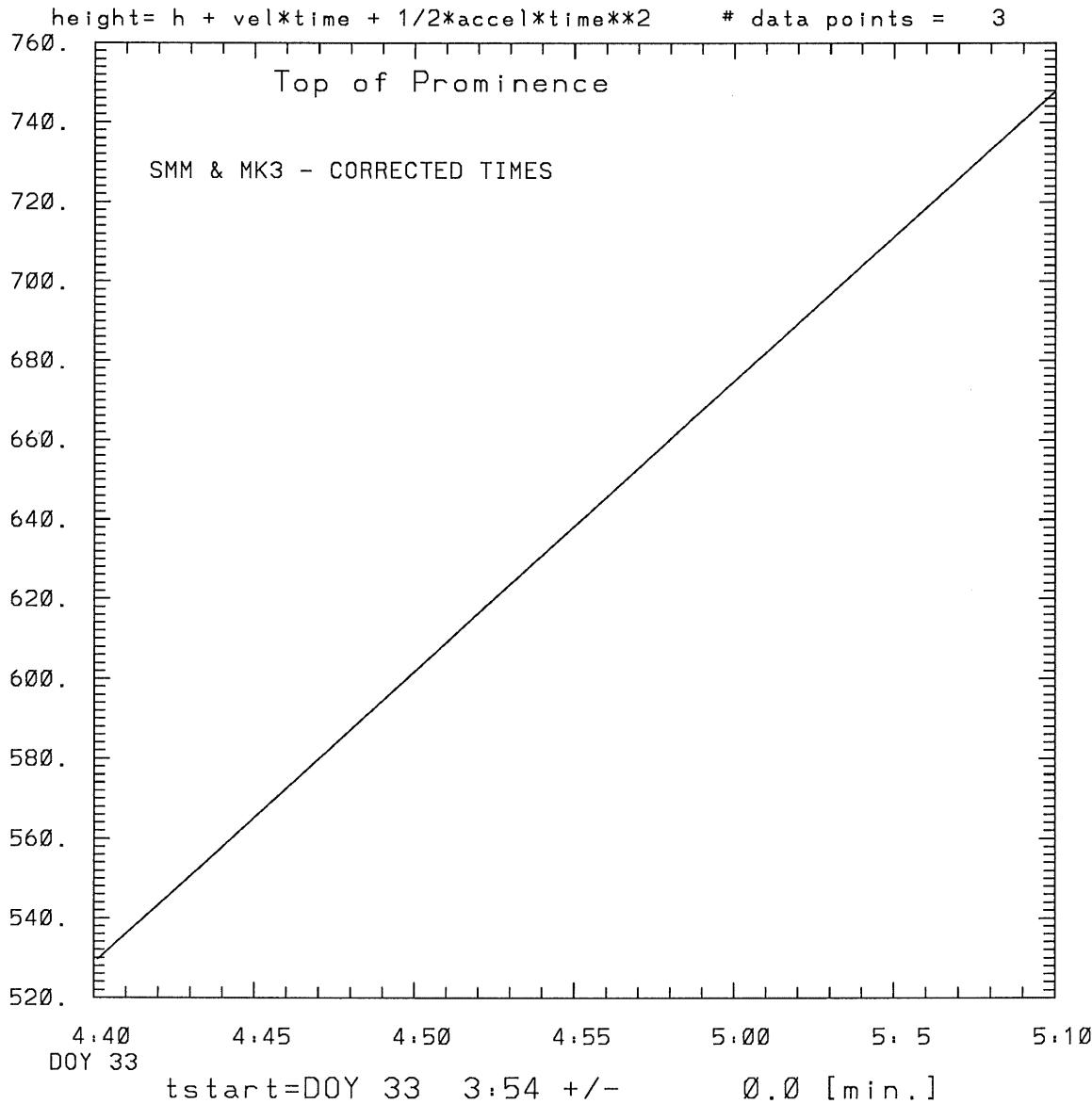
radial velocity= 593. +/- 11. [km/sec]

SMM C/P 1988 DOY 33 135 +/- 0 degrees



radial acceleration= 0.1217 +/- 0.0001 [km/sec\*\*2]

SMM C/P 1988 DOY 33 135 +/- 0 degrees



radial acceleration=0.122E+00 km/sec\*\*2

\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in	angle	error in	datatype
1988	33	4:40:49	2.50	+/- 0.15	135.0	+/- 1.0	1.0	SMM
1988	33	4:49: 2	2.90	+/- 0.20	135.0	+/- 1.0	1.0	SMM
1988	33	4:57:23	3.35	+/- 0.20	135.0	+/- 1.0	1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Prominence

\*\*\*\*\*

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OUTPUT:

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START TIME:

Event began at t = 0 + -0.284E+02 +/- 0.300E+00 [minutes]

In more convenient units:

Event began at DOY 33 4:12 +/- 0.300E+00 [minutes]

Origin defined at DOY 33 4:40

RADIAL INFORMATION:

RADIAL VELOCITY = 593. +/- 11. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.245E+01 +/- 0.976E-02 [solar radii]

c(2) = 0.511E-01 +/- 0.967E-03 [radii/min]

c(2) = 0.593E+03 +/- 0.112E+02 [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)= 0.17292E-01 [radii] see Bevington pg. 114

error in c(2)= 0.15275E-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) = 135. +/- 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 4:40 = 0. km/sec

The TOTAL velocity at 4:40 = 593. km/sec

The TANGENTIAL velocity at 4:49 = 0. km/sec

The TOTAL velocity at 4:49 = 593. km/sec

The TANGENTIAL velocity at 4:57 = 0. km/sec

The TOTAL velocity at 4:57 = 593. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 0.43

Standard Deviation in start time measurement = 0.676E+01

Error in time = 0.35011E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.133E-03

Reduced Chi Squared = 0.680E-03

Chi Squared = 0.680E-03

The probability for exceeding chi square = 0.991E+00

The correlation coefficient = 0.100E+01

The probability that no LINEAR correlation exists between the variables = 0.1864E-01

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

\*\*\*\*\*

This is a 2 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in radii	angle	angle	error in angle	datatype
1988	33	4:40:49	2.50	+/- 0.15		135.0	+/- 1.0		SMM
1988	33	4:49: 2	2.90	+/- 0.20		135.0	+/- 1.0		SMM
1988	33	4:57:23	3.35	+/- 0.20		135.0	+/- 1.0		SMM

\*\*\*\*\*

Structure being measured:

Top of Prominence

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.480E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY .33 3:54 +/- 0.000E+00 [minutes]

Origin defined at DOY 33 4:40

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.122E+00 +/- 0.727E-04 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.246E+01 +/- 0.976E-05 [solar radii]  
c(2) = 0.456E-01 +/- 0.340E-05 [radii/min]  
c(2) = 0.529E+03 +/- 0.395E-01 [km/sec]  
c(3) = 0.315E-03 +/- 0.188E-06 [radii/min\*\*2]  
c(3) = 0.122E+00 +/- 0.727E-04 [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) = 135. +/- 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 4:40 = 0. km/sec

The TOTAL velocity at 4:40 = 535. km/sec

The TANGENTIAL velocity at 4:49 = 0. km/sec

The TOTAL velocity at 4:49 = 595. km/sec

The TANGENTIAL velocity at 4:57 = 0. km/sec

The TOTAL velocity at 4:57 = 656. 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!