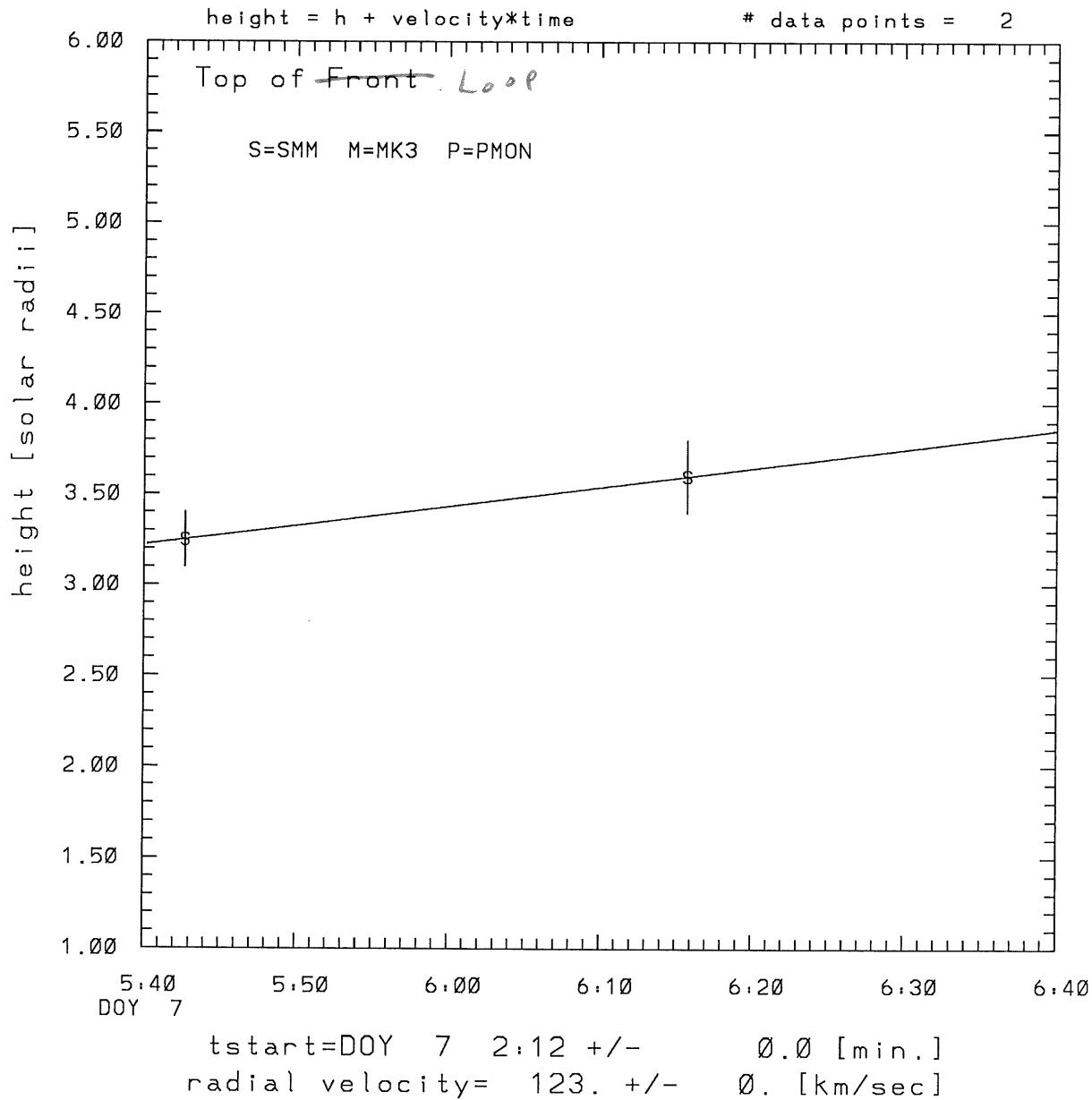


SMM C/P 1988 DOY 7 70 +/- 0 degrees



This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in radii	error in radius	angle	angle	datatype
1988	7	5:42:42	3.25	+/- 0.15	70.0	+/- 0.5			SMM
1988	7	6:15:45	3.60	+/- 0.20	70.0	+/- 0.5			SMM

Structure being measured:

Top of Front

OUTPUT:

START TIME:

Event began at t = 0 + -0.210E+03 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 7 2:12 +/- 0.000E+00 [minutes]

Origin defined at DOY 7 5:40

RADIAL INFORMATION:

RADIAL VELOCITY = 123. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.322E+01 +/- 0.117E-05 [solar radii]
c(2) = 0.106E-01 +/- 0.542E-07 [radii/min]
c(2) = 0.123E+03 +/- 0.629E-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) = 70. +/- 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 5:42 = 0. km/sec

The TOTAL velocity at 5:42 = 123. km/sec

The TANGENTIAL velocity at 6:15 = 0. km/sec

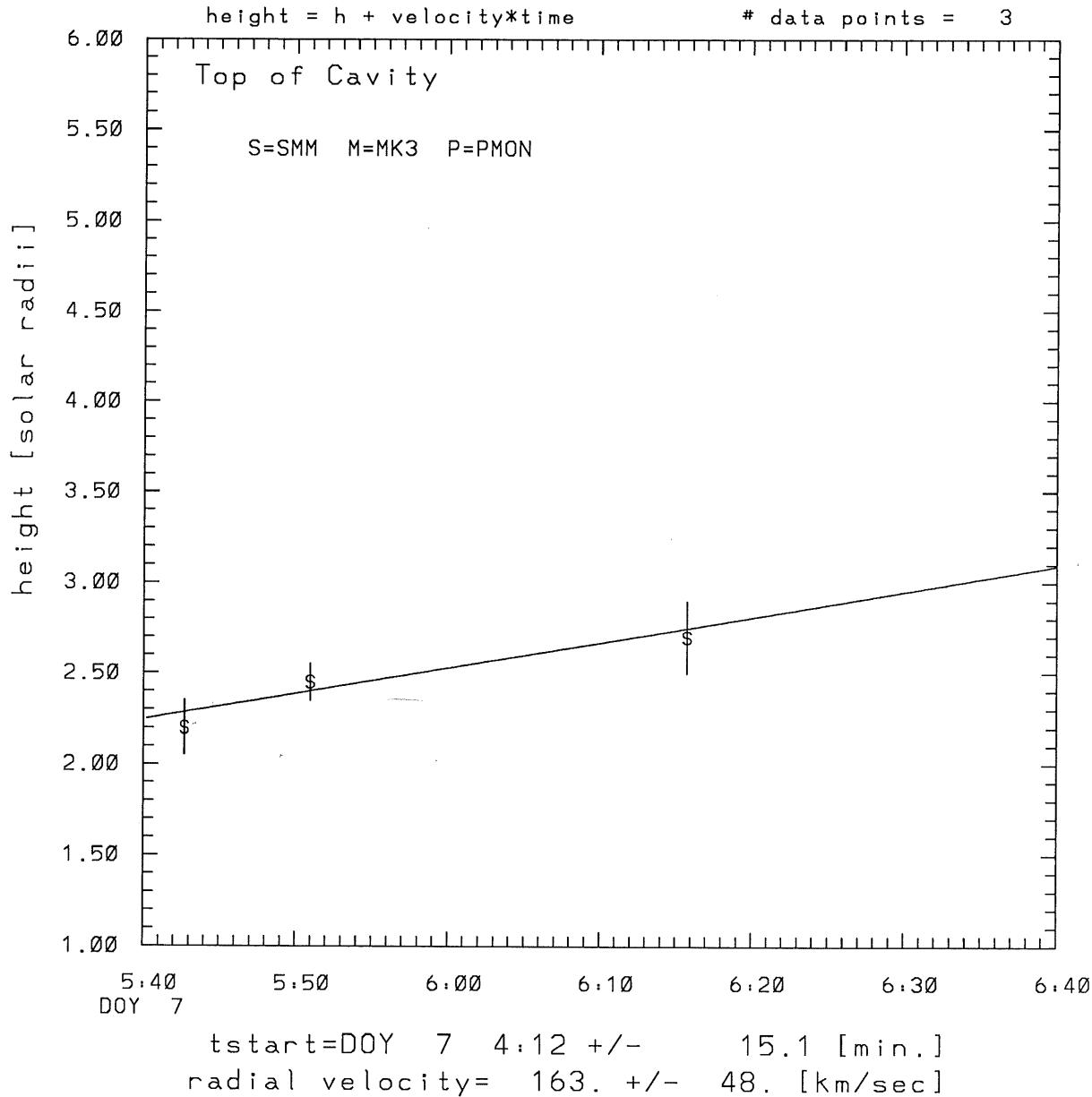
The TOTAL velocity at 6:15 = 123. km/sec

The following info is for estimating goodness of the fit

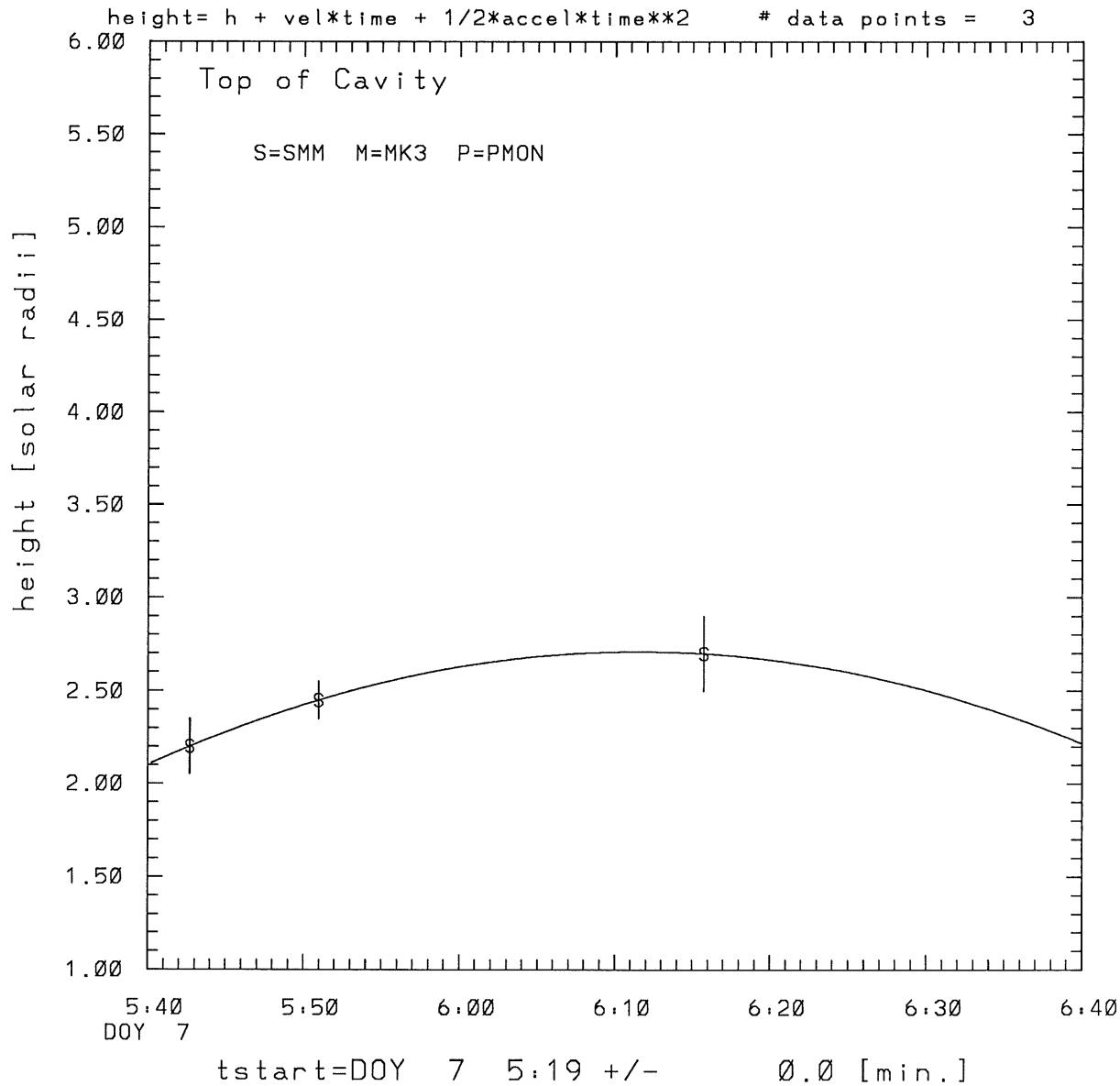
Number data points = number of coefficients. No error analysis is possible.

Correlation coefficient is not computable!

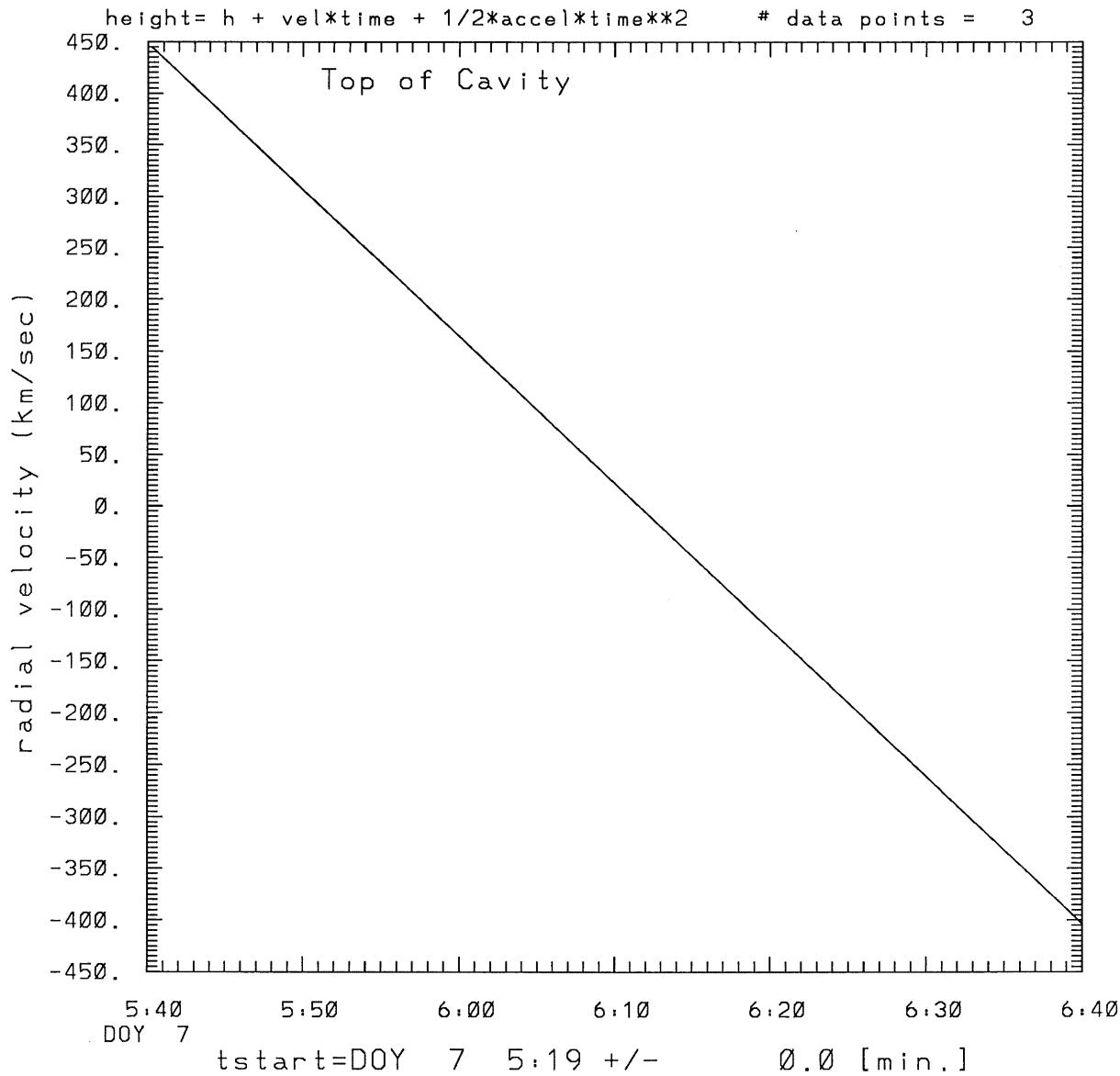
SMM C/P 1988 DOY 7 70 +/- 0 degrees



SMM C/P 1988 DOY 7 70 +/- 0 degrees



SMM C/P 1988 DOY 7 70 +/- 0 degrees



radial acceleration=-.237E+00 km/sec**2

This is a 1 order run

INPUT:

year	doy	time	radii	radius	error in	angle	error in	datatype
1988	7	5:42:42	2.20	+/- 0.15	70.0	+/- 0.5	SMM	
1988	7	5:50:57	2.45	+/- 0.10	70.0	+/- 0.5	SMM	
1988	7	6:15:45	2.70	+/- 0.20	70.0	+/- 0.5	SMM	

Structure being measured:

Top of Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.884E+02 +/- 0.151E+02 [minutes]

In more convenient units:

Event began at DOY 7 4:12 +/- 0.151E+02 [minutes]

Origin defined at DOY 7 5:40

RADIAL INFORMATION:

RADIAL VELOCITY = 163. +/- 48. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.225E+01 +/- 0.672E-01 [solar radii]
c(2) = 0.141E-01 +/- 0.416E-02 [radii/min]
c(2) = 0.163E+03 +/- 0.482E+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)= 0.97458E-01 [radii] see Bevington pg. 114
error in c(2)= 0.45030E-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) = 70. +/- 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 5:42 = 0. km/sec

The TOTAL velocity at 5:42 = 163. km/sec

The TANGENTIAL velocity at 5:50 = 0. km/sec

The TOTAL velocity at 5:50 = 163. km/sec

The TANGENTIAL velocity at 6:15 = 0. km/sec

The TOTAL velocity at 6:15 = 163. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.25

Standard Deviation in start time measurement = 0.140E+02

Error in time = 0.77746E+01 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.551E-02

Reduced Chi Squared = 0.194E-01

Chi Squared = 0.194E-01

The probability for exceeding chi square = 0.941E+00

The correlation coefficient = 0.961E+00

The probability that no LINEAR correlation exists between the variables = 0.1792E+00

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

This is a 2 order run

INPUT:

year	doy	time	radii	radius	error in radii	error in radius	angle	angle	datatype
1988	7	5:42:42	2.20	+/- 0.15	70.0	+/- 0.5	70.0	+/- 0.5	SMM
1988	7	5:50:57	2.45	+/- 0.10	70.0	+/- 0.5	70.0	+/- 0.5	SMM
1988	7	6:15:45	2.70	+/- 0.20	70.0	+/- 0.5	70.0	+/- 0.5	SMM

Structure being measured:

Top of Cavity

OUTPUT:

START TIME:

Event began at t = 0 + -0.213E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 7 5:19 +/- 0.000E+00 [minutes]

Origin defined at DOY 7 5:40

RADIAL INFORMATION:

RADIAL ACCELERATION = -0.237E+00 +/- 0.380E-06 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.210E+01 +/- 0.279E-06 [solar radii]
c(2) = 0.387E-01 +/- 0.405E-07 [radii/min]
c(2) = 0.448E+03 +/- 0.470E-03 [km/sec]
c(3) = -0.612E-03 +/- 0.982E-09 [radii/min**2]
c(3) = -0.237E+00 +/- 0.380E-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) = 70. +/- 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 5:42 = 0. km/sec
The TOTAL velocity at 5:42 = 410. km/sec

The TANGENTIAL velocity at 5:50 = 0. km/sec
The TOTAL velocity at 5:50 = 293. km/sec

The TANGENTIAL velocity at 6:15 = 0. km/sec
The TOTAL velocity at 6:15 = -59. 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!