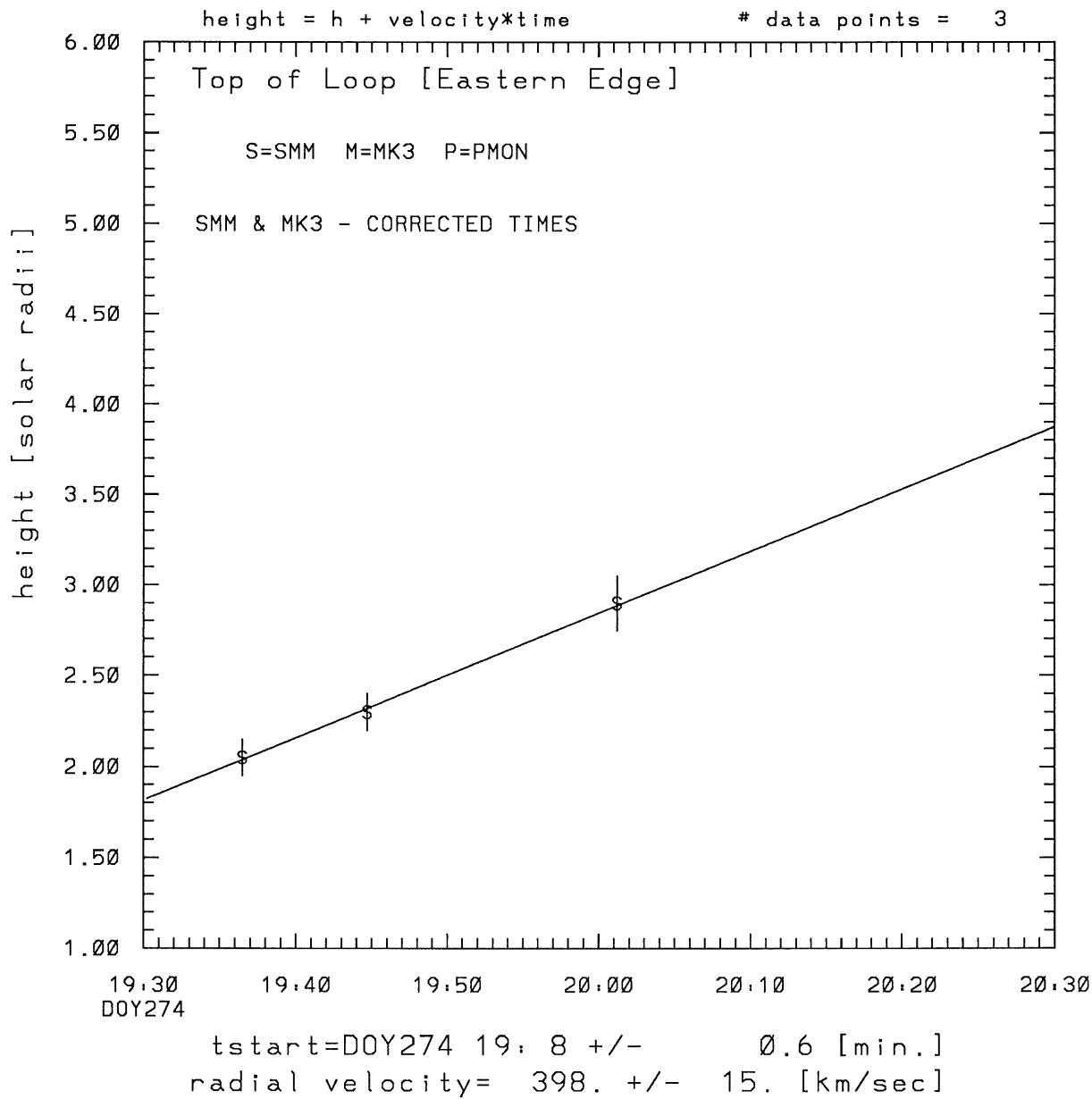
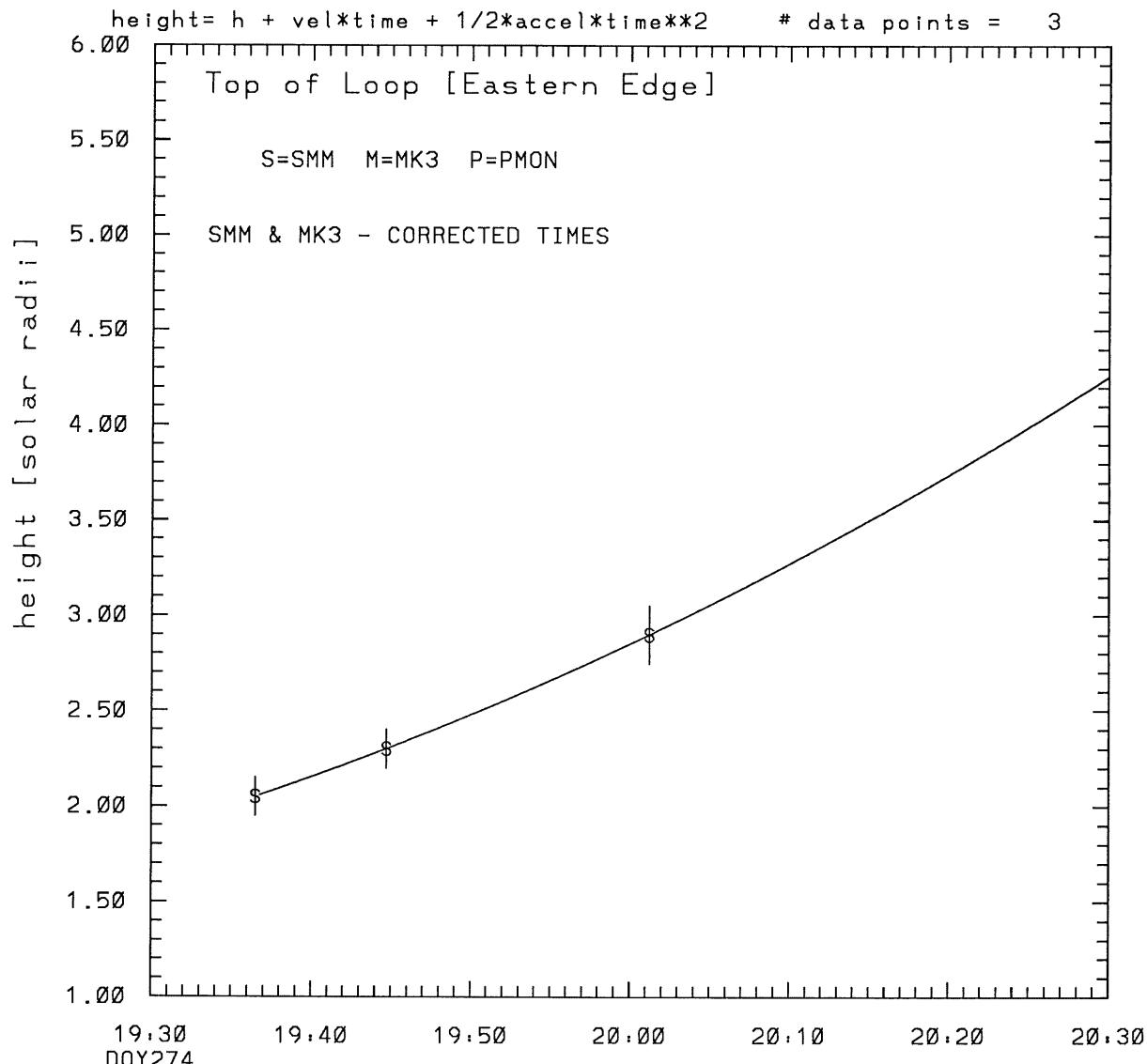


SMM C/P 1988 DOY274 145 +/- 0 degrees

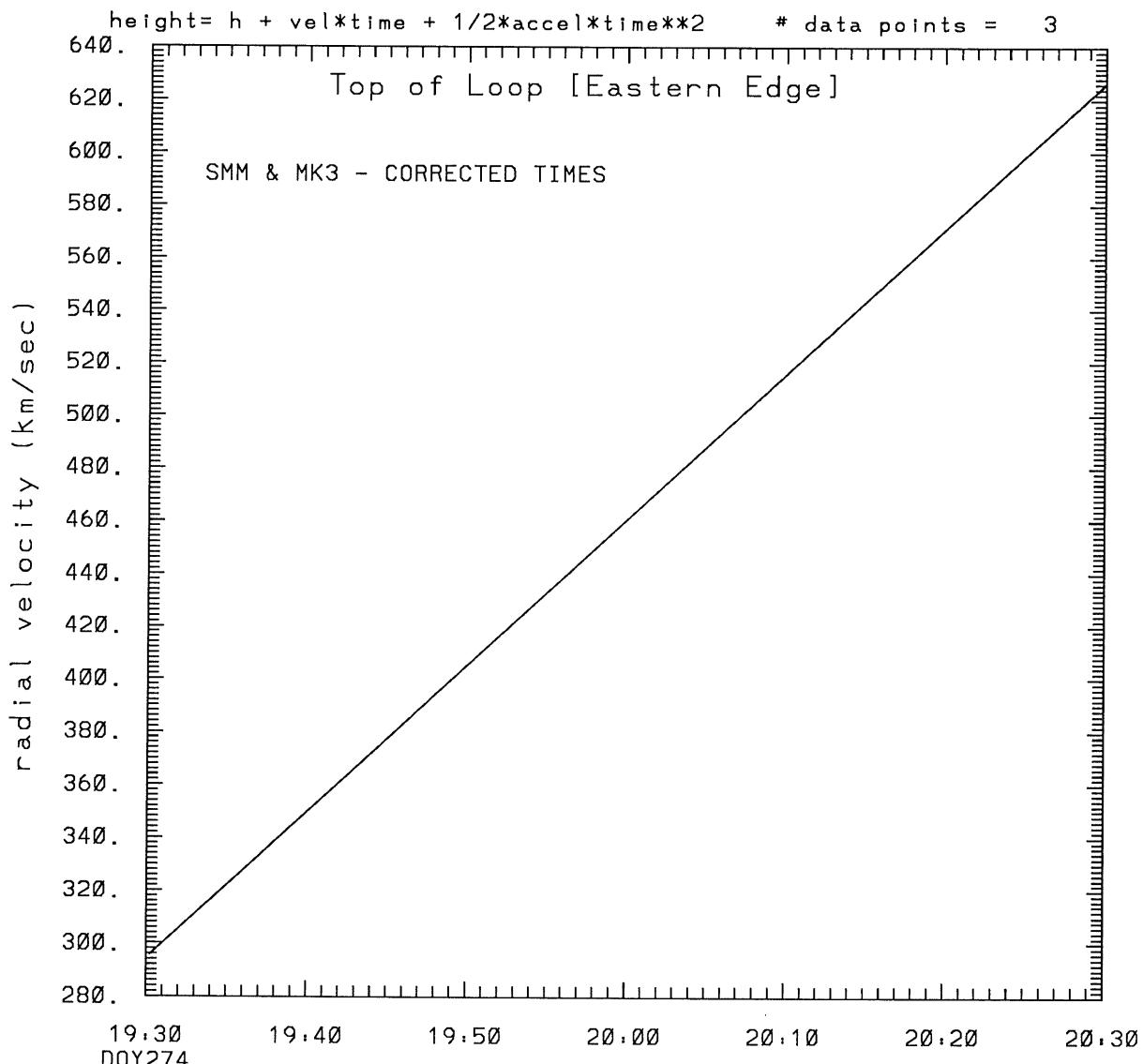


SMM C/P 1988 DOY274 145 +/- 0 degrees



tstart=DOY274 18:37 from derivative=0
Event begins at 1.20 Solar Radii
radial acceleration= 0.0922 +/- 0.0000 [km/sec**2]

SMM C/P 1988 DOY274 145 +/- 0 degrees



tstart=DOY274 18:37 from derivative=0

Event begins at 1.20 Solar Radii

radial acceleration=0.922E-01 km/sec**2

This is a 1 order run

INPUT:

year	doy	time	error in radii	error in radius	error in angle	error in angle	datatype
1988	274	19:36:29	2.05	+/- 0.10	145.0	+/- 0.5	SMM
1988	274	19:44:42	2.30	+/- 0.10	145.0	+/- 0.5	SMM
1988	274	20: 1:13	2.90	+/- 0.15	145.0	+/- 0.5	SMM

Structure being measured:

Top of Loop [Eastern Edge]

OUTPUT:

START TIME:

Event began at t = 0 + -0.238E+02 +/- 0.571E+00 [minutes]

In more convenient units:

Event began at DOY 274 19: 8 +/- 0.571E+00 [minutes]

Origin defined at DOY274 19:30

RADIAL INFORMATION:

RADIAL VELOCITY = 398. +/- 15. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.181E+01 +/- 0.215E-01 [solar radii]
c(2) = 0.343E-01 +/- 0.128E-02 [radii/min]
c(2) = 0.398E+03 +/- 0.149E+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)= 0.30788E-01 [radii] see Bevington pg. 114

error in c(2)= 0.15189E-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) = 145. +/- 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 19:36 = 0. km/sec

The TOTAL velocity at 19:36 = 398. km/sec

The TANGENTIAL velocity at 19:44 = 0. km/sec

The TOTAL velocity at 19:44 = 398. km/sec

The TANGENTIAL velocity at 20: 1 = 0. km/sec

The TOTAL velocity at 20: 1 = 398. km/sec

The following info is for estimating goodness of the fit

Fit is ok [ier=1]

Standard Deviation in the height = 0.44

Standard Deviation in start time measurement = 0.103E+02

Error in time = 0.78876E+00 using best fit method

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

Value of reduced Chi Squared returned from nllst2 = 0.380E-03

Reduced Chi Squared = 0.151E-02

Chi Squared = 0.151E-02

The probability for exceeding chi square = 0.984E+00

The correlation coefficient = 0.999E+00

The probability that no LINEAR correlation exists between the variables = 0.2676E-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	error in angle	datatype
1988	274	19:36:29	2.05	+/- 0.10	145.0	+/- 0.5	SMM	
1988	274	19:44:42	2.30	+/- 0.10	145.0	+/- 0.5	SMM	
1988	274	20: 1:13	2.90	+/- 0.15	145.0	+/- 0.5	SMM	

Structure being measured:

Top of Loop [Eastern Edge]

OUTPUT:

START TIME:

tstart=DOY274 18:37 from derivative = 0

Event begins at 1.20 Solar Radii

Origin defined at DOY274 19:30

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.922E-01 +/- 0.863E-05 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.188E+01 +/- 0.635E-05 [solar radii]
c(2) = 0.254E-01 +/- 0.853E-06 [radii/min]
c(2) = 0.294E+03 +/- 0.989E-02 [km/sec]
c(3) = 0.239E-03 +/- 0.223E-07 [radii/min**2]
c(3) = 0.922E-01 +/- 0.863E-05 [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) = 145. +/- 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 19:36 = 0. km/sec

The TOTAL velocity at 19:36 = 330. km/sec

The TANGENTIAL velocity at 19:44 = 0. km/sec

The TOTAL velocity at 19:44 = 376. km/sec

The TANGENTIAL velocity at 20: 1 = 0. km/sec

The TOTAL velocity at 20: 1 = 467. 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!