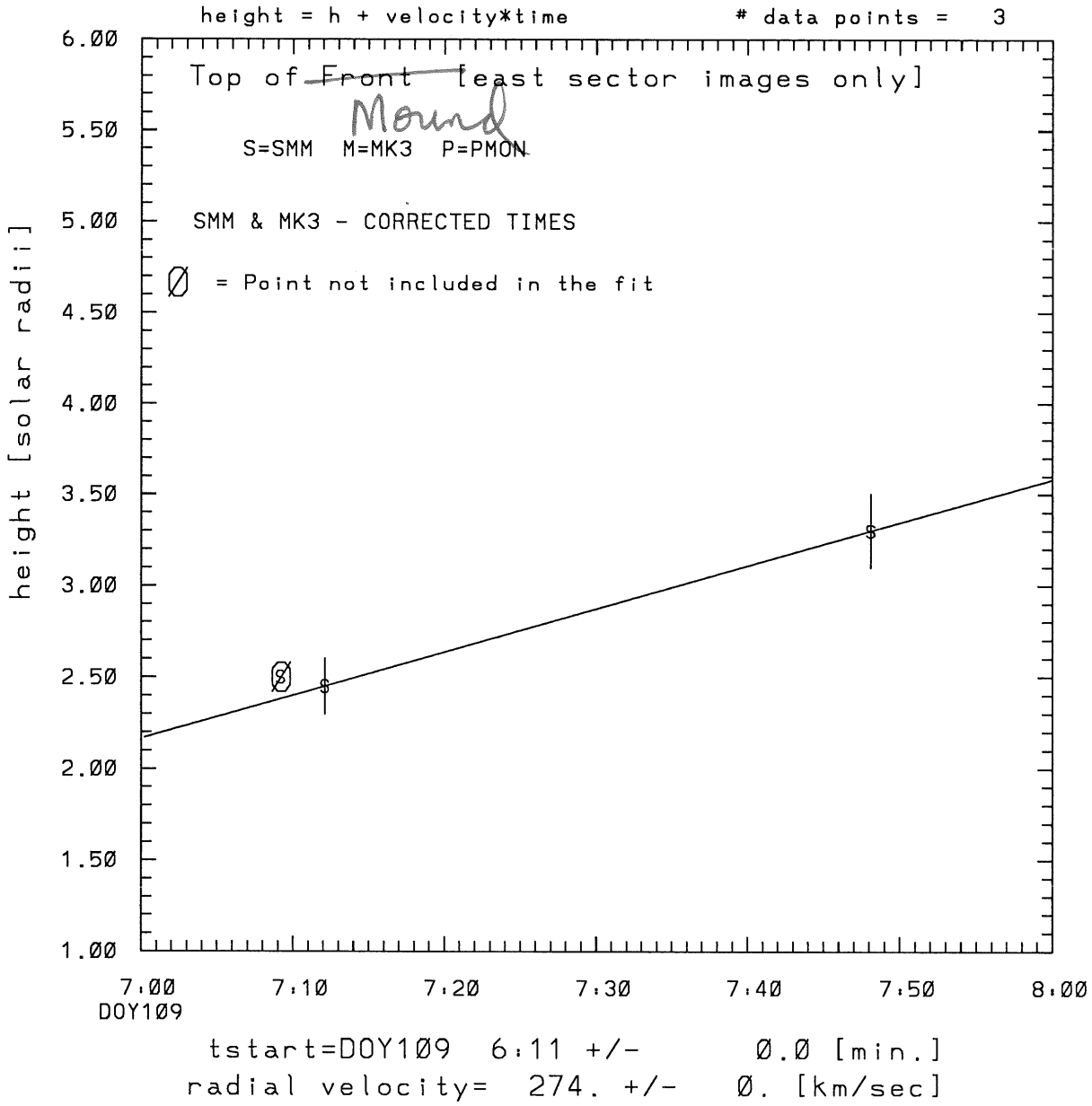
SMM C/P 1986 DOY109 73 +/- 0 degrees
height = h + velocity*time
# data points = 3
Top of ~~Front~~ Mound [east sector images only]
S=SMM M=MK3 P=PMON
SMM & MK3 - CORRECTED TIMES
Ø = Point not included in the fit
height [solar radii]
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
7:00
DOY109
7:10
7:20
7:30
7:40
7:50
8:00
tstart=DOY109 6:11 +/- 0.0 [min.]
radial velocity= 274. +/- 0. [km/sec]

****
This is a 1 order run
****

****
INPUT:
****

year doy	time	radii	error in radius	angle	error in angle	datatype
1986 109	7: 9: 9	2.50	-----	73.00 +/-	----	SMM THIS POINT WASN'T USED IN THE FIT.
1986 109	7:12: 5	2.45 +/- 0.15		73.0 +/-	0.5	SMM
1986 109	7:48: 5	3.30 +/- 0.20		73.0 +/-	1.0	SMM

****
Structure being measured:
Top of ~~Front~~ Mound [east sector images only]
****

****
OUTPUT:
****

START TIME:

Event began at t = 0 + -0.493E+02 +/- 0.209E-04 [minutes]
In more convenient units:
Event began at DOY 109 6:11 +/- 0.209E-04 [minutes]

Origin defined at DOY109 7: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 274. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.216E+01 +/- 0.242E-06 [solar radii]
c(2) = 0.236E-01 +/- 0.797E-08 [radii/min]
c(2) = 0.274E+03 +/- 0.924E-04 [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)= 0.11321E+00 [radii] see Bevington pg. 114
error in c(2)= 0.38895E-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) = 73. +/- 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 7: 9 = 0.000E+00 km/sec
The TOTAL velocity at 7: 9 = 274. km/sec

The TANGENTIAL velocity at 7:12 = 0.000E+00 km/sec
The TOTAL velocity at 7:12 = 274. km/sec

The TANGENTIAL velocity at 7:48 = 0.000E+00 km/sec
The TOTAL velocity at 7:48 = 274. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height = 0.48
Standard Deviation in start time measurement = 0.177E+02
Error in time = 0.50510E+01 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.568E-13
Reduced Chi Squared = 0.142E-01
Chi Squared = 0.142E-01
The probability for exceeding chi square = 0.100E+01

The correlation coefficient = 0.993E+00
The probability that no LINEAR correlation exists between the variables = 0.7648E-01
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]