SMM C/P 1984 DOY329 292 +/- 0 degrees

height = h + velocity*time   # data points = 12

Top of Cavity

S=SMM   M=MK3   P=PMON

SMM & MK3 - CORRECTED TIMES

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

15:00   16:00   17:00   18:00   19:00   20:00   21:00
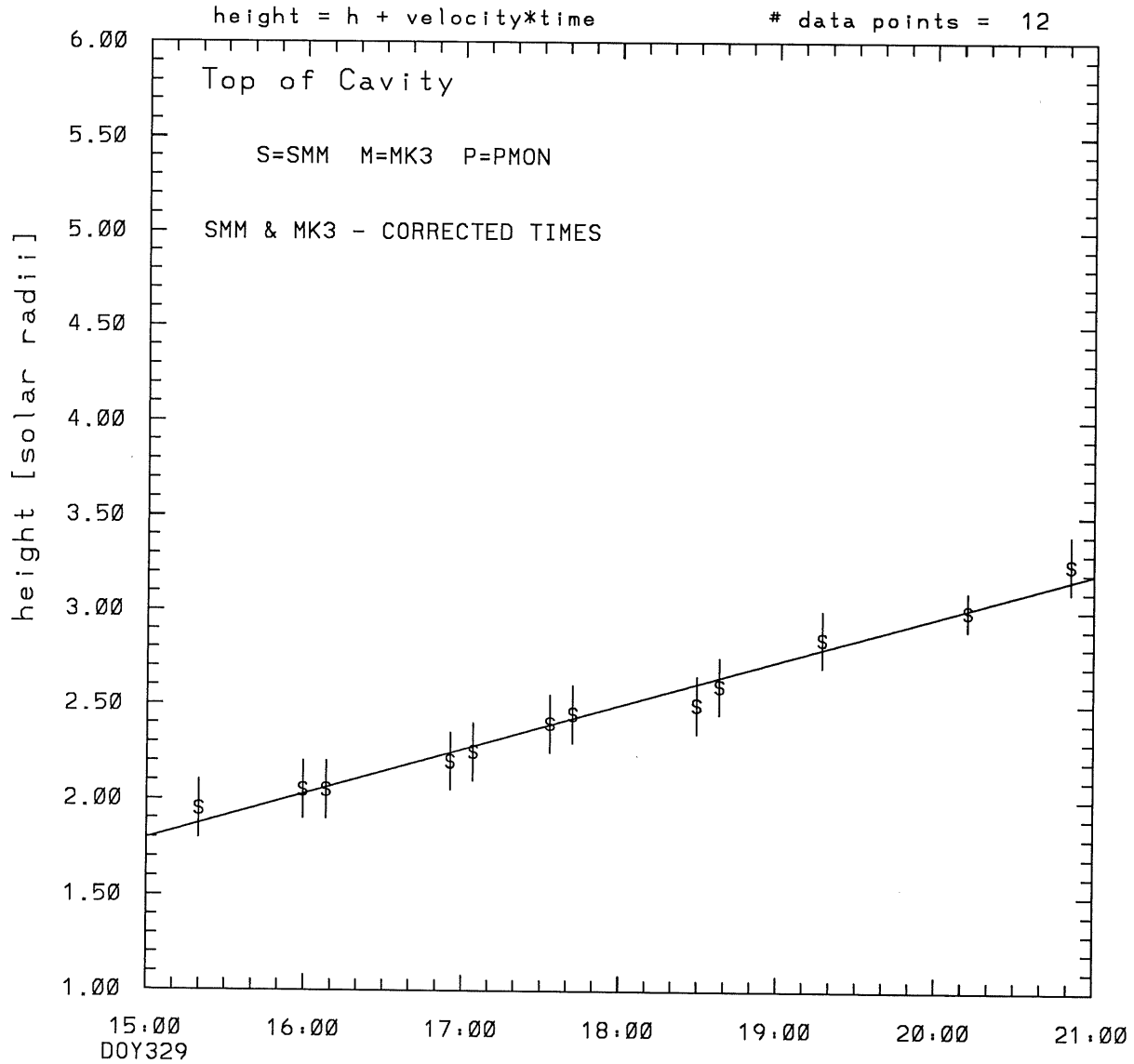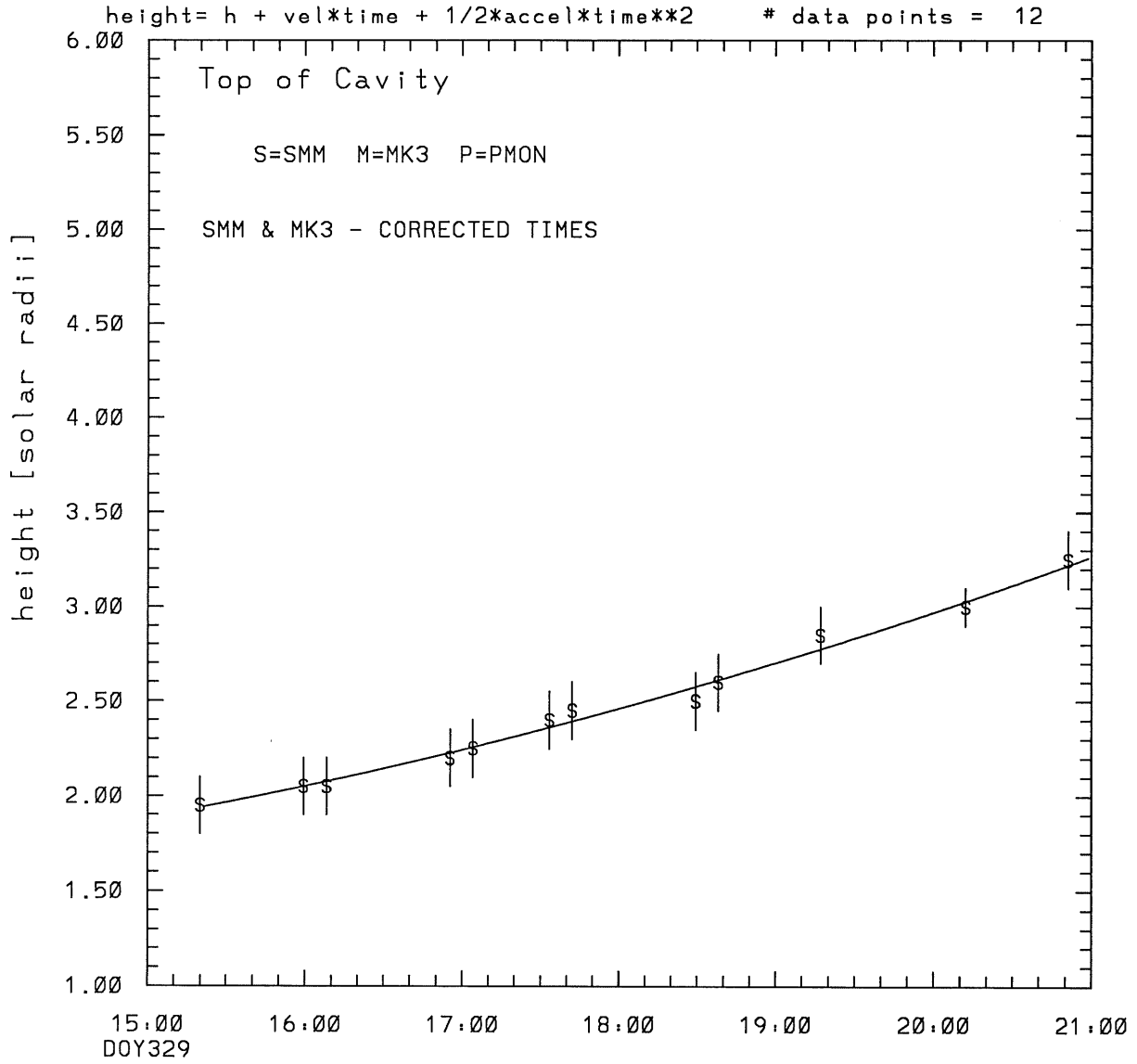DOY329

tstart=DOY329 11:38 +/-   1.1 [min.]
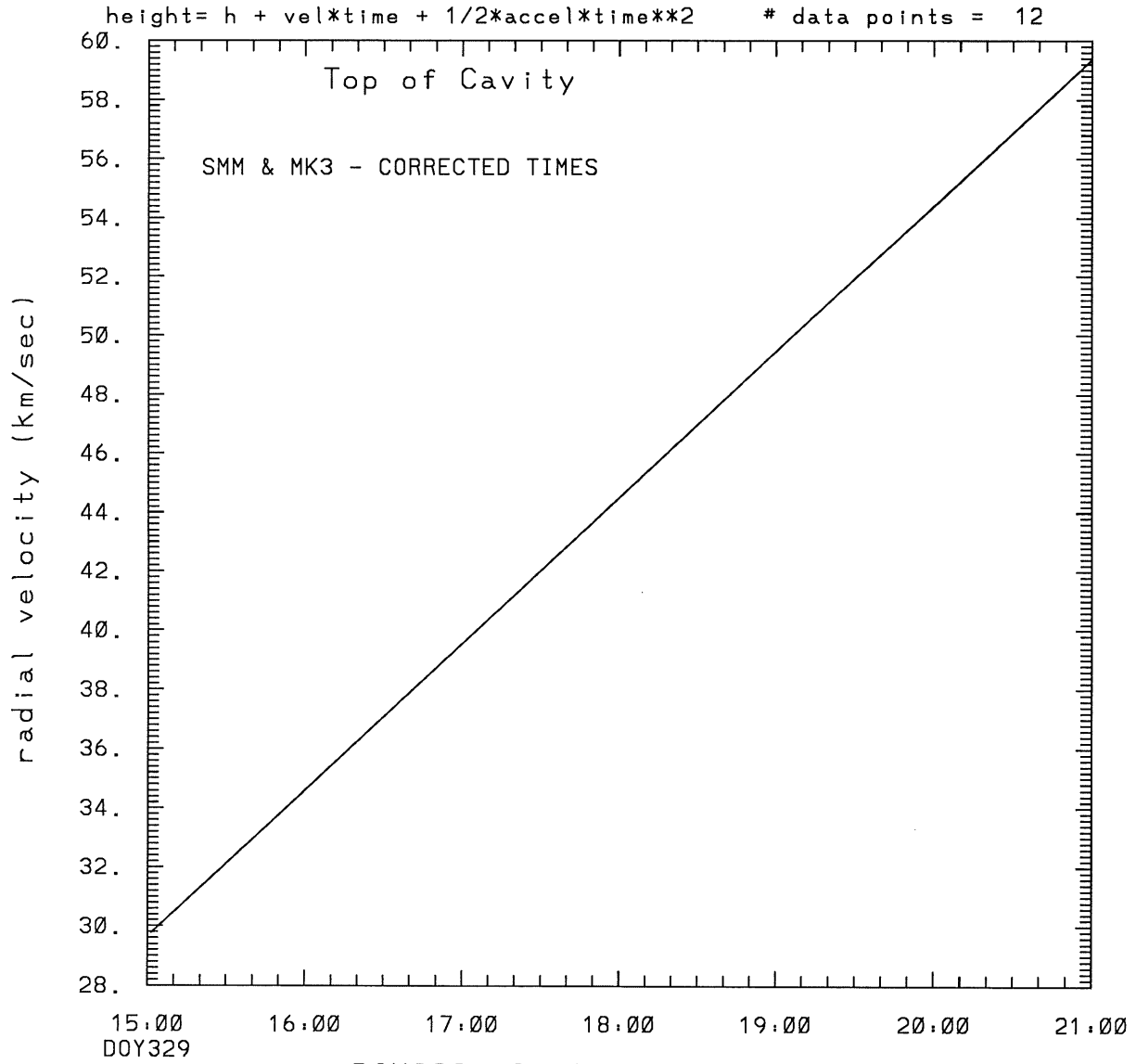radial velocity=   45. +/-   2. [km/sec]

SMM C/P 1984 DOY329 292 +/- 0 degrees

height= h + vel*time + 1/2*accel*time**2   # data points = 12

Top of Cavity

S=SMM M=MK3 P=PMON

SMM & MK3 - CORRECTED TIMES

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

15:00   16:00   17:00   18:00   19:00   20:00   21:00
DOY329

tstart=DOY329 9: 1   from derivative=0
Event begins at   1.43 Solar Radii
radial acceleration= 0.0014 +/- 0.0005 [km/sec**2]

SMM C/P 1984 DOY329 292 +/- Ø degrees

height= h + vel*time + 1/2*accel*time**2   # data points =   12

Top of Cavity

SMM & MK3 - CORRECTED TIMES

radial velocity (km/sec)

60.
58.
56.
54.
52.
50.
48.
46.
44.
42.
40.
38.
36.
34.
32.
30.
28.

15:ØØ   16:ØØ   17:ØØ   18:ØØ   19:ØØ   20:ØØ   21:ØØ
DOY329

tstart=DOY329 9: 1   from derivative=Ø
Event begins at   1.43 Solar Radii
radial acceleration=Ø.138E-Ø2 km/sec**2

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


*******
 INPUT:
*******


                        error in        error in
year doy    time    radii  radius    angle  angle   datatype
1984 329  15:19:56   1.95 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  15:59:25   2.05 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  16: 8:10   2.05 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  16:55:25   2.20 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  17: 4: 9   2.25 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  17:33:26   2.40 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  17:42:10   2.45 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  18:29:25   2.50 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  18:38:10   2.60 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  19:17: 9   2.85 +/- 0.15   292.0 +/-  0.5    SMM
1984 329  20:12: 8   3.00 +/- 0.10   292.0 +/-  1.0    SMM
1984 329  20:51:10   3.25 +/- 0.15   292.0 +/-  1.0    SMM


******************************************
 Structure being measured:
Top of Cavity
******************************************


*******
 OUTPUT:
*******


START TIME:

Event began at t = 0 + -0.204E+03 +/-  0.108E+01 [minutes]
In more convenient units:
Event began at DOY 329 11:38 +/-  0.108E+01 [minutes]


Origin defined at DOY329 15: 0

RADIAL INFORMATION:

RADIAL VELOCITY =    45. +/-    2. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =   0.179E+01 +/-   0.320E-01 [solar radii]
c(2) =   0.390E-02 +/-   0.152E-03 [radii/min]
c(2) =   0.452E+02 +/-   0.176E+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)= 0.34273E-01 [radii] see Bevington pg. 114
error in c(2)= 0.17402E-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) = 292. +/- 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 15:19 = 0.000E+00 km/sec
The TOTAL velocity at 15:19 =   45. km/sec

The TANGENTIAL velocity at 15:59 = 0.000E+00 km/sec
The TOTAL velocity at 15:59 =   45. km/sec

The TANGENTIAL velocity at 16: 8 = 0.000E+00 km/sec
The TOTAL velocity at 16: 8 =   45. km/sec

The TANGENTIAL velocity at 16:55 = 0.000E+00 km/sec
The TOTAL velocity at 16:55 =   45. km/sec

The TANGENTIAL velocity at 17: 4 = 0.000E+00 km/sec
The TOTAL velocity at 17: 4 =   45. km/sec

The TANGENTIAL velocity at 17:33 = 0.000E+00 km/sec
The TOTAL velocity at 17:33 =   45. km/sec

The TANGENTIAL velocity at 17:42 = 0.000E+00 km/sec
The TOTAL velocity at 17:42 =   45. km/sec

The TANGENTIAL velocity at 18:29 = 0.000E+00 km/sec
The TOTAL velocity at 18:29 =   45. km/sec

The TANGENTIAL velocity at 18:38 = 0.000E+00 km/sec
The TOTAL velocity at 18:38 =   45. km/sec

The TANGENTIAL velocity at 19:17 = 0.000E+00 km/sec
The TOTAL velocity at 19:17 =   45. km/sec

The TANGENTIAL velocity at 20:12 = 0.000E+00 km/sec
The TOTAL velocity at 20:12 =   45. km/sec

The TANGENTIAL velocity at 20:51 = 0.000E+00 km/sec
The TOTAL velocity at 20:51 =   45. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height = 0.40
Standard Deviation in start time measurement = 0.979E+02
Error in time = 0.47856E+02 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.288E-02
Reduced Chi Squared = 0.259E-01
Chi Squared = 0.259E+00
The probability for exceeding chi square = 0.100E+01

The correlation coefficient = 0.990E+00
The probability that no LINEAR correlation exists between the variables = -0.1098E-07
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

```
********************
 This is a 2 order run
********************


*******
 INPUT:
*******


                            error in       error in
year doy    time    radii   radius     angle  angle    datatype
1984 329  15:19:56   1.95 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  15:59:25   2.05 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  16: 8:10   2.05 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  16:55:25   2.20 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  17: 4: 9   2.25 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  17:33:26   2.40 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  17:42:10   2.45 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  18:29:25   2.50 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  18:38:10   2.60 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  19:17: 9   2.85 +/- 0.15    292.0 +/-  0.5      SMM
1984 329  20:12: 8   3.00 +/- 0.10    292.0 +/-  1.0      SMM
1984 329  20:51:10   3.25 +/- 0.15    292.0 +/-  1.0      SMM


*****************************************
 Structure being measured:
Top of Cavity
*****************************************


********
 OUTPUT:
********


START TIME:

 tstart=DOY329  9: 1 from derivative = 0
Event begins at   1.43 Solar Radii
 Origin defined at DOY329 15: 0

RADIAL INFORMATION:

RADIAL ACCELERATION =  0.138E-02 +/-  0.513E-03 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

 c(1) =    0.188E+01 +/-   0.422E-01 [solar radii]
 c(2) =    0.256E-02 +/-   0.516E-03 [radii/min]
 c(2) =    0.297E+02 +/-   0.598E+01 [km/sec]
 c(3) =    0.356E-05 +/-   0.133E-05 [radii/min**2]
 c(3) =    0.138E-02 +/-   0.513E-03 [km/sec**2]

The computed ERRORS in coefficients [BEVINGTON] are:

       Approximate error in c(1) =  0.43318E-01 [radii] Bevington pg 154 (8-30)
```

Exact error in c(1) = 0.27173E-02 [radii] Bevington pg 154 (8-28)
Approximate error in c(2) = 0.53088E-03 [radii/min] Bevington pg 154 (8-30)
Exact error in c(2) = 0.55134E-04 [radii/min] Bevington pg 154 (8-28)
Approximate error in c(3) = 0.13849E-05 [radii/min**] Bevington pg 154 (8-30)
Exact error in c(3) = 0.17804E-06 [radii/min**] Bevington pg 154 (8-28)

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.0000E+00 +/-   0.0000E+00[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 292. +/-   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 15:19 = 0.000E+00 km/sec
The TOTAL velocity at 15:19 =   31. km/sec

The TANGENTIAL velocity at 15:59 = 0.000E+00 km/sec
The TOTAL velocity at 15:59 =   35. km/sec

The TANGENTIAL velocity at 16: 8 = 0.000E+00 km/sec
The TOTAL velocity at 16: 8 =   35. km/sec

The TANGENTIAL velocity at 16:55 = 0.000E+00 km/sec
The TOTAL velocity at 16:55 =   39. km/sec

The TANGENTIAL velocity at 17: 4 = 0.000E+00 km/sec
The TOTAL velocity at 17: 4 =   40. km/sec

The TANGENTIAL velocity at 17:33 = 0.000E+00 km/sec
The TOTAL velocity at 17:33 =   42. km/sec

The TANGENTIAL velocity at 17:42 = 0.000E+00 km/sec
The TOTAL velocity at 17:42 =   43. km/sec

The TANGENTIAL velocity at 18:29 = 0.000E+00 km/sec
The TOTAL velocity at 18:29 =   47. km/sec

The TANGENTIAL velocity at 18:38 = 0.000E+00 km/sec
The TOTAL velocity at 18:38 =   48. km/sec

The TANGENTIAL velocity at 19:17 = 0.000E+00 km/sec
The TOTAL velocity at 19:17 =   51. km/sec

The TANGENTIAL velocity at 20:12 = 0.000E+00 km/sec
The TOTAL velocity at 20:12 =   55. km/sec

The TANGENTIAL velocity at 20:51 = 0.000E+00 km/sec
The TOTAL velocity at 20:51 = 59. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height = 0.40
Standard Deviation in start time measurement = 0.979E+02
Value of reduced Chi Squared returned from nllst2 = 0.185E-02
Reduced Chi Squared = 0.175E-01
Chi Squared = 0.157E+00
The probability for exceeding chi square = 0.100E+01

For a second order fit 3 correlation coefficients are given:
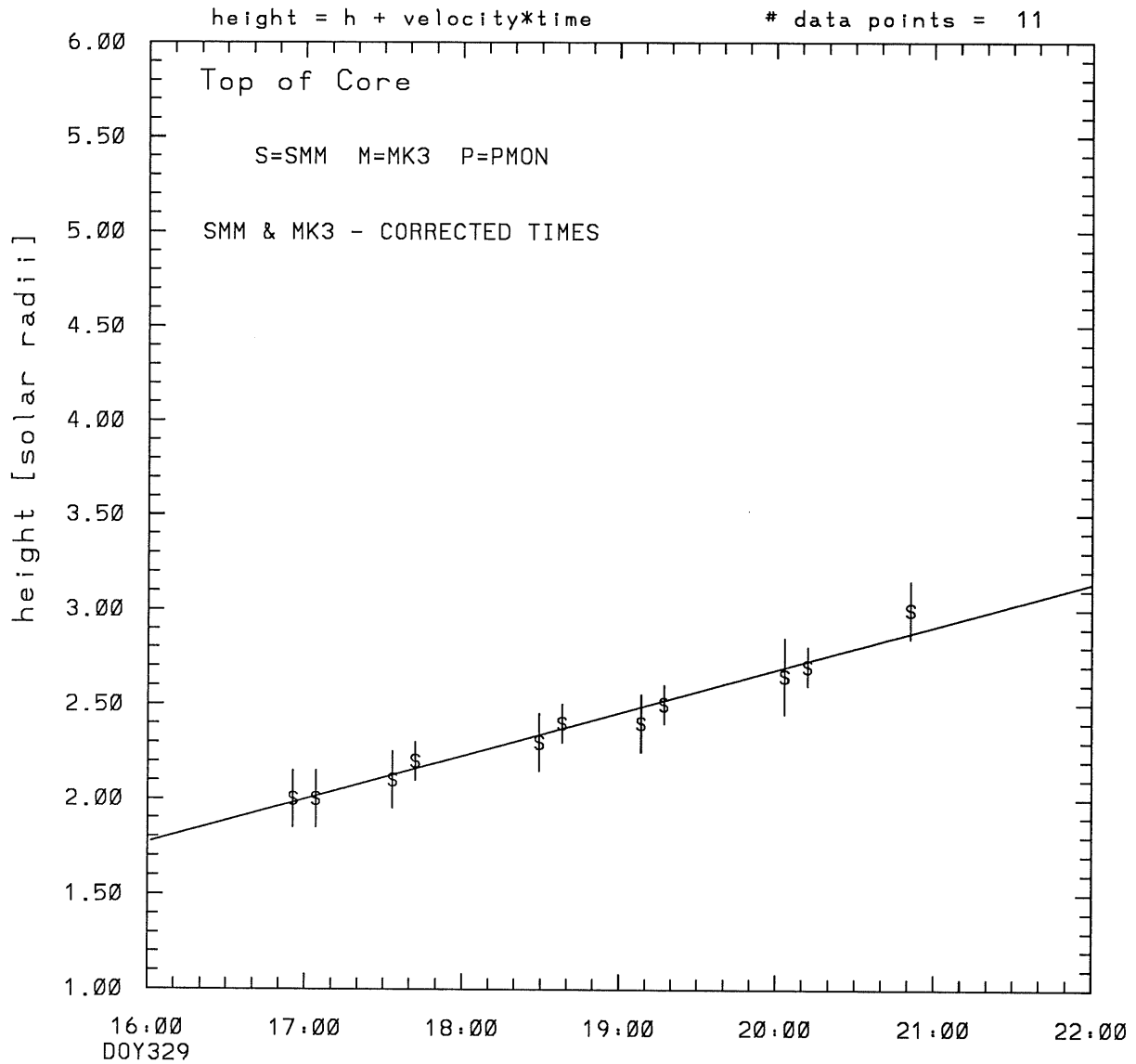(Using equation of motion: $r = a + bt + at^{2}$)
The correlation between the data and the term linear in time = 0.1041E+01
The correlation between the data and the time**2 term = 0.1048E+01
The correlation between the data and the complete equation of motion = 0.9915E+00
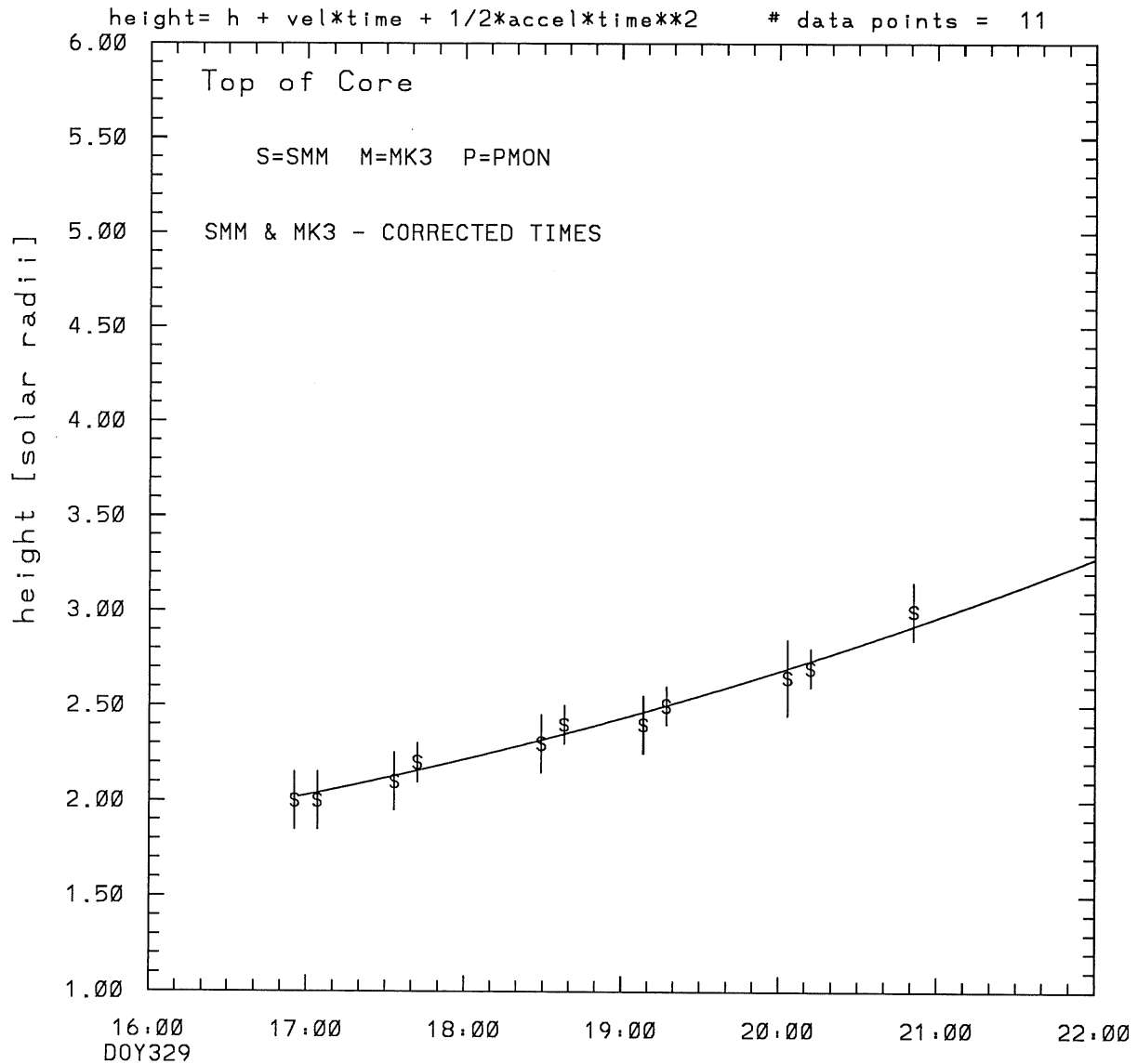SEE BEVINGTON "Data Reduction and Error Analysis" [1969]
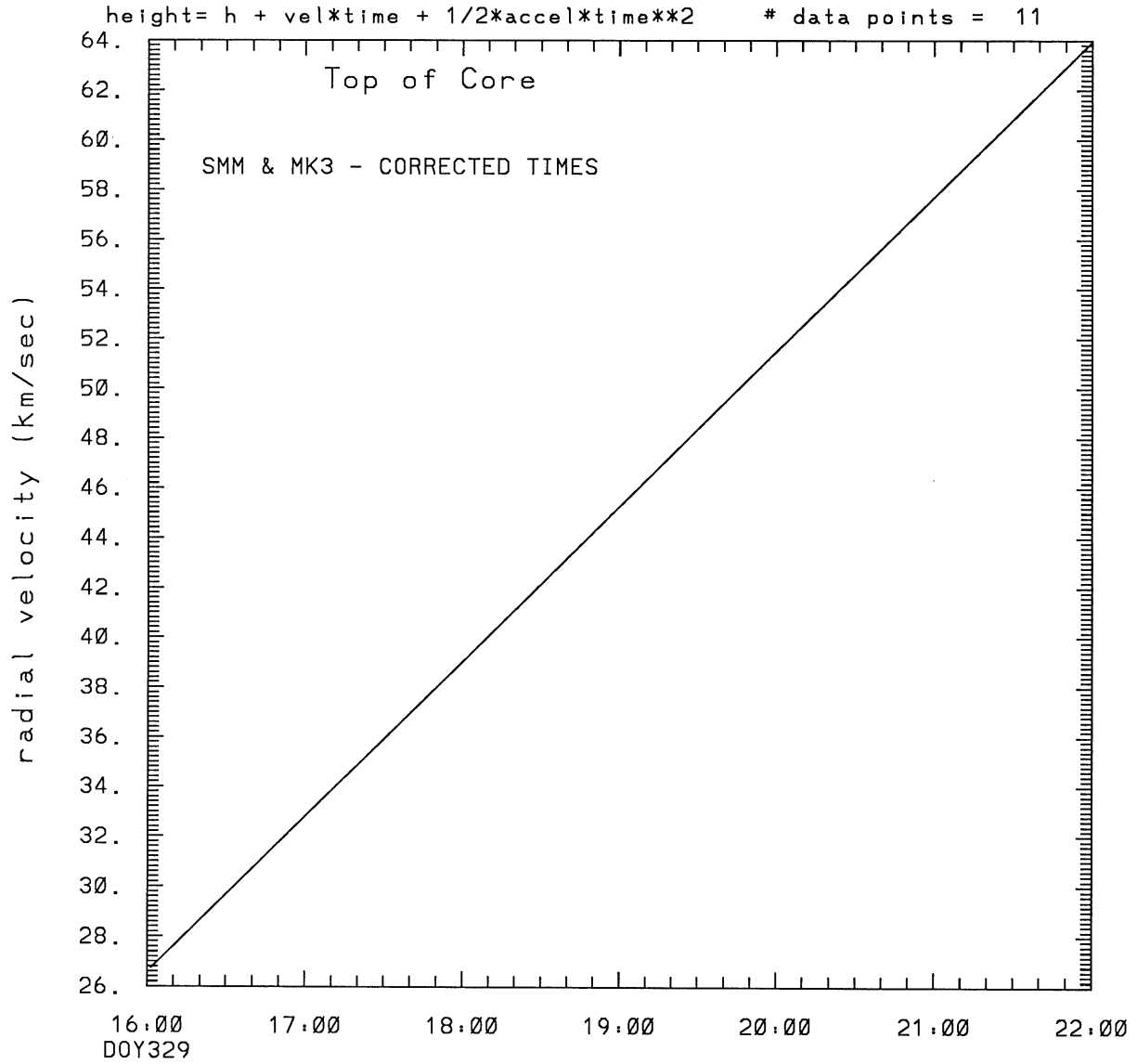
SMM C/P 1984 DOY329 292 +/- 0 degrees

height = h + velocity*time   # data points = 11

Top of Core

S=SMM   M=MK3   P=PMON

SMM & MK3 - CORRECTED TIMES

tstart=DOY329 12:39 +/-   2.1 [min.]
radial velocity=   44. +/-   2. [km/sec]

SMM C/P 1984 DOY329 292 +/- 0 degrees

height= h + vel*time + 1/2*accel*time**2   # data points = 11

Top of Core

S=SMM   M=MK3   P=PMON

SMM & MK3 - CORRECTED TIMES

tstart=DOY329 11:44   from derivative=0
Event begins at   1.58 Solar Radii
radial acceleration= 0.0017 +/- 0.0012 [km/sec**2]

SMM C/P 1984 DOY329 292 +/- 0 degrees

height= h + vel*time + 1/2*accel*time**2   # data points = 11

radial velocity (km/sec)

Top of Core

SMM & MK3 - CORRECTED TIMES

64.
62.
60.
58.
56.
54.
52.
50.
48.
46.
44.
42.
40.
38.
36.
34.
32.
30.
28.
26.

16:00   17:00   18:00   19:00   20:00   21:00   22:00
DOY329

tstart=DOY329 11:44   from derivative=0
Event begins at   1.58 Solar Radii
radial acceleration=0.173E-02 km/sec**2

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


*******
 INPUT:
*******
```

			error in		error in	
year doy	time	radii	radius	angle	angle	datatype
1984 329	16:55:25	2.00 +/- 0.15		292.0 +/- 0.5		SMM
1984 329	17: 4: 9	2.00 +/- 0.15		292.0 +/- 0.5		SMM
1984 329	17:33:26	2.10 +/- 0.15		292.0 +/- 0.5		SMM
1984 329	17:42:10	2.20 +/- 0.10		292.0 +/- 0.5		SMM
1984 329	18:29:25	2.30 +/- 0.15		292.0 +/- 0.5		SMM
1984 329	18:38:10	2.40 +/- 0.10		292.0 +/- 0.5		SMM
1984 329	19: 8:25	2.40 +/- 0.15		292.0 +/- 0.5		SMM
1984 329	19:17: 9	2.50 +/- 0.10		292.0 +/- 0.5		SMM
1984 329	20: 3:23	2.65 +/- 0.20		292.0 +/- 0.5		SMM
1984 329	20:12: 8	2.70 +/- 0.10		292.0 +/- 0.5		SMM
1984 329	20:51:10	3.00 +/- 0.15		292.0 +/- 1.0		SMM

```
******************************************
 Structure being measured:
Top of Core
******************************************


*******
 OUTPUT:
*******


START TIME:

Event began at t = 0 + -0.203E+03 +/- 0.211E+01 [minutes]
In more convenient units:
Event began at DOY 329 12:39 +/- 0.211E+01 [minutes]

Origin defined at DOY329 16: 0

RADIAL INFORMATION:

RADIAL VELOCITY =    44. +/-    2. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) =    0.177E+01 +/-   0.385E-01 [solar radii]
c(2) =    0.380E-02 +/-   0.214E-03 [radii/min]
c(2) =    0.441E+02 +/-   0.249E+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)= 0.42188E-01 [radii] see Bevington pg. 114
error in c(2)= 0.23462E-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) = 292. +/- 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 16:55 = 0.000E+00 km/sec
The TOTAL velocity at 16:55 = 44. km/sec

The TANGENTIAL velocity at 17: 4 = 0.000E+00 km/sec
The TOTAL velocity at 17: 4 = 44. km/sec

The TANGENTIAL velocity at 17:33 = 0.000E+00 km/sec
The TOTAL velocity at 17:33 = 44. km/sec

The TANGENTIAL velocity at 17:42 = 0.000E+00 km/sec
The TOTAL velocity at 17:42 = 44. km/sec

The TANGENTIAL velocity at 18:29 = 0.000E+00 km/sec
The TOTAL velocity at 18:29 = 44. km/sec

The TANGENTIAL velocity at 18:38 = 0.000E+00 km/sec
The TOTAL velocity at 18:38 = 44. km/sec

The TANGENTIAL velocity at 19: 8 = 0.000E+00 km/sec
The TOTAL velocity at 19: 8 = 44. km/sec

The TANGENTIAL velocity at 19:17 = 0.000E+00 km/sec
The TOTAL velocity at 19:17 = 44. km/sec

The TANGENTIAL velocity at 20: 3 = 0.000E+00 km/sec
The TOTAL velocity at 20: 3 = 44. km/sec

The TANGENTIAL velocity at 20:12 = 0.000E+00 km/sec
The TOTAL velocity at 20:12 = 44. km/sec

The TANGENTIAL velocity at 20:51 = 0.000E+00 km/sec
The TOTAL velocity at 20:51 = 44. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height = 0.31
Standard Deviation in start time measurement =   0.755E+02
Error in time =   0.46397E+02 using best fit method
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.246E-02
Reduced Chi Squared = 0.301E-01
Chi Squared = 0.270E+00
The probability for exceeding chi square = 0.100E+01

The correlation coefficient =   0.984E+00
The probability that no LINEAR correlation exists between the variables =   0.4232E-07
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

```
********************
 This is a 2 order run
********************


*******
 INPUT:
*******


                         error in       error in
year doy    time    radii  radius    angle  angle   datatype
1984 329  16:55:25  2.00 +/- 0.15    292.0 +/-  0.5     SMM
1984 329  17: 4: 9  2.00 +/- 0.15    292.0 +/-  0.5     SMM
1984 329  17:33:26  2.10 +/- 0.15    292.0 +/-  0.5     SMM
1984 329  17:42:10  2.20 +/- 0.10    292.0 +/-  0.5     SMM
1984 329  18:29:25  2.30 +/- 0.15    292.0 +/-  0.5     SMM
1984 329  18:38:10  2.40 +/- 0.10    292.0 +/-  0.5     SMM
1984 329  19: 8:25  2.40 +/- 0.15    292.0 +/-  0.5     SMM
1984 329  19:17: 9  2.50 +/- 0.10    292.0 +/-  0.5     SMM
1984 329  20: 3:23  2.65 +/- 0.20    292.0 +/-  0.5     SMM
1984 329  20:12: 8  2.70 +/- 0.10    292.0 +/-  0.5     SMM
1984 329  20:51:10  3.00 +/- 0.15    292.0 +/-  1.0     SMM


****************************************
 Structure being measured:
Top of Core
****************************************


*******
 OUTPUT:
*******


START TIME:

 tstart=DOY329 11:44 from derivative = 0
Event begins at   1.58 Solar Radii
 Origin defined at DOY329 16: 0

RADIAL INFORMATION:

RADIAL ACCELERATION =  0.173E-02 +/-  0.117E-02 km/sec**2

The computed RADIAL coefficients and errors FROM NLLST2 are:

   c(1) =   0.188E+01 +/-   0.797E-01 [solar radii]
   c(2) =   0.229E-02 +/-   0.104E-02 [radii/min]
   c(2) =   0.266E+02 +/-   0.120E+02 [km/sec]
   c(3) =   0.447E-05 +/-   0.301E-05 [radii/min**2]
   c(3) =   0.173E-02 +/-   0.117E-02 [km/sec**2]

The computed ERRORS in coefficients [BEVINGTON] are:

      Approximate error in c(1) =  0.79356E-01 [radii] Bevington pg 154 (8-30)
          Exact error in c(1) =  0.12793E-01 [radii] Bevington pg 154 (8-28)
```

Approximate error in c(2) = 0.10673E-02 [radii/min] Bevington pg 154 (8-30)
Exact error in c(2) = 0.20109E-03 [radii/min] Bevington pg 154 (8-28)
Approximate error in c(3) = 0.31193E-05 [radii/min**] Bevington pg 154 (8-30)
Exact error in c(3) = 0.72271E-06 [radii/min**] Bevington pg 154 (8-28)

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.0000E+00 +/- 0.0000E+00[radians/sec**2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 292. +/- 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 16:55 = 0.000E+00 km/sec
The TOTAL velocity at 16:55 = 32. km/sec

The TANGENTIAL velocity at 17: 4 = 0.000E+00 km/sec
The TOTAL velocity at 17: 4 = 33. km/sec

The TANGENTIAL velocity at 17:33 = 0.000E+00 km/sec
The TOTAL velocity at 17:33 = 36. km/sec

The TANGENTIAL velocity at 17:42 = 0.000E+00 km/sec
The TOTAL velocity at 17:42 = 37. km/sec

The TANGENTIAL velocity at 18:29 = 0.000E+00 km/sec
The TOTAL velocity at 18:29 = 42. km/sec

The TANGENTIAL velocity at 18:38 = 0.000E+00 km/sec
The TOTAL velocity at 18:38 = 43. km/sec

The TANGENTIAL velocity at 19: 8 = 0.000E+00 km/sec
The TOTAL velocity at 19: 8 = 46. km/sec

The TANGENTIAL velocity at 19:17 = 0.000E+00 km/sec
The TOTAL velocity at 19:17 = 47. km/sec

The TANGENTIAL velocity at 20: 3 = 0.000E+00 km/sec
The TOTAL velocity at 20: 3 = 52. km/sec

The TANGENTIAL velocity at 20:12 = 0.000E+00 km/sec
The TOTAL velocity at 20:12 = 53. km/sec

The TANGENTIAL velocity at 20:51 = 0.000E+00 km/sec
The TOTAL velocity at 20:51 = 57. km/sec

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

Fit is ok [ier=1]

Standard Deviation in the height =  0.31
Standard Deviation in start time measurement =    0.755E+02
Value of reduced Chi Squared returned from nllst2 = 0.220E-02
Reduced Chi Squared = 0.204E-01
Chi Squared = 0.163E+00
The probability for exceeding chi square = 0.100E+01

For a second order fit 3 correlation coefficients are given:
 (Using equation of motion: r = a + bt + at**2)
The correlation between the data and the term linear in time  =   0.9105E+00
The correlation between the data and the time**2 term =    0.9098E+00
The correlation between the data and the complete equation of motion =   0.9739E+00
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]
```