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Limb Profiles of the Moon from Grazing Occultation Observations Collected at RGO

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Abstract

From lunar grazing occultation observations it is shown that the present lunar limb profile data have sometimes large errors, and therefore it is apparent that they need to be modified. For that purpose observations of grazing occultations collected at the Royal Greenwich Observatory until 1980 were analyzed and lunar limb profile data were obtained. As a result the number of the lunar limb profile data obtained from grazing occultations was almost doubled. These profile data are being used for the predictions of lunar grazing occultations in order to locate observers at better positions, so that they can also get good grazing occultation data to improve the lunar limb profiles. These profile data will be used in the future analyses of solar eclipse observations and of the possible errors of the Hipparcos proper motion system.

Key words: Lunar grazing occultations, Lunar limb profiles.

1. Introduction

For the lunar limb irregularity corrections in the lunar occultation analyses, Watts' (1963) charts are still being used. In 1994 lunar topographic features were observed by the Clementine lunar mapping mission (Smith et al. 1997), but the Clementine laser altimeter data were too sparce (they only covered narrow meridianal strips separated by almost 3° of selenographic longitude) to replace Watts' data, and the altimeter data for the polar regions were not obtained. Margot et al. (1999) obtained lunar polar topography from radar interferometry, and Cook et al. (2000) derived them from Clementine stereoimages, but derived lunar limb profiles from them did not agree well.

There is a Japanese SELENE mission which will start in 2003. The Moon-orbiting SELENE satellite will observe Moon's surface, and it is expected that the observations will help to derive the lunar limb profiles. But for the present, lunar occultation observations are the only ways to get precise lunar limb profile data. Those data will be used to detect the variation of the solar diameter from analyzing solar eclipse timing observations (Fiala et al. 1994). They are also useful for detecting errors of the Hipparcos proper motion system (Dunham 1997, Sôma 2000).

Lunar grazing occultation observations are of an advantage to getting lunar limb profile data in the lunar polar regions, and they can be used for predictions of future grazing occultations with near librations. The International Lunar Occultation Centre (ILOC) in Tokyo has been collecting lunar total and grazing occultation observations made in the world since 1980. Sôma (1999) analyzed those grazing occultation observations collected at the ILOC using the planetary and lunar ephemerides DE405 (Standish 1998) and the Hipparcos Catalogue of stars (ESA 1997), and published the lunar limb profile data obtained from the analysis. They have been being used for the predictions of grazing occultations provided by IOTA (International Occultation Timing Association) each year, but they are not enough for the predictions so that many predicted grazing events still have inaccurate profile data for the observations as will be explained in Sect. 2 below.

Until 1980 the lunar total and grazing occultation observations were collected at the Royal Greenwich Observatory (RGO), and the total occultation data were provided in the machine-readable form, but the grazing data were only publicized on the microfiche (Appleby et al. 1984) and those in the machine-readable form were lost. However Dietmar Büttner and other IOTA/European Section members digitized the data recently, and they kindly provided the data to the authors. We checked the data and some errors in the digitized data were corrected with the help of David Herald in Australia. In Sect. 3 these grazing occultation observations are analyzed with the same lunar and planetary ephemerides and the same star catalog as was used by Sôma (1999) and the lunar limb profile data obtained from the analysis are given in the same format of table 1 by Sôma (1999).

Our goal is to give lunar limb data for any libration and any position angle. The grazing occultation observations made hitherto are not enough to provide them. But the data in the present paper are intended to be used for the lunar limb profile predictions for future grazing occultations in order to locate observers at better positions, so that they can also get good grazing occultation data to improve the lunar limb profiles.

The data presented in this paper have been provided in the machine-readable form to IOTA computers, who are responsible for grazing occultation predictions for observers in their countries or regions, and are used for the predictions for 2002. One of the authors (MS), as the Vice President for Grazing Occultation Services of IOTA from 1998, is receiving grazing occultation observations made by the IOTA members. The authors will reduce them, update the limb profile data, and provide them annually to the IOTA computers. The data can also be provided in the machine-readable form to anyone upon request.

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2. Recent Examples of Successful Grazing Occultations

The lunar limb profiles obtained by Sôma (1999) have been used for the predictions of lunar grazing occultations distributed annually from IOTA, but there are still many grazing events which have no observed lunar limb profiles in the predictions. The grazing occultations of the 5.1-magnitude star 97 Tauri (ZC 730) observed on 2000 July 27 in Florida, U.S.A. and on 2000 August 23 in Japan were two of such events, and Watts' (1963) lunar profile charts had large errors for those events, but through international collaboration those events were successfully observed, as explained below.

Just a few days before the 2000 July event David W. Dunham, the president of IOTA, remembered that he and an IOTA member Robert H. Stewart observed the grazing occultation of the same star on 1995 July 23 in Virginia, U.S.A., and from their observations he suspected that while Watts' charts gave rather low lunar limb profile for that region, the actual profile was not so low. So he reported their observations to Sôma and Dunham's suspicion was confirmed from Sôma's analysis of their observation as given in figure 1. The fact was also consistent with the grazing occultation of ZC 478 observed on 1977 August 7 in Maryland, U.S.A. (figure 2), whose observations were archived at the ILOC in Tokyo, although the latitude librations b of the Moon of them differed by about 1°. The Watts angle (the position angle used in Watts' charts; it was Watts' intention that this angle was identical with that measured from the north pole of the Moon, but actually they differed by about $0\overset{\circ}{.}24$) of those profiles were larger than the central graze Watts angle of the 2000 July event by about 10°, but Sôma found that a few other grazing occultations that were within a few degrees of Watts angle and librations of the 2000 July event showed the actual lunar limb profile being close to the lunar mean limb, which was about $0\overset{\prime\prime}{.}5$ to $1\overset{\prime\prime}{.}0$ higher than Watts' profile, as shown in figures 3–6 (it is noted that, as shown in the figures, the longitude librations l and the latitude librations b of the Moon for these events vary in the regions $-1\overset{\circ}{.}1 \leqq l \leqq +3\overset{\circ}{.}2$ and $+3\overset{\circ}{.}60 \leqq b \leqq +6\overset{\circ}{.}11$, but all of the observed lunar limb profiles are close to the lunar mean limb). Based on this information the 2000 July grazing occultation of 97 Tauri was successfully observed, and 9 observers in three expeditions got a total of 65 contacts. A month later, on 2000 August 23, another grazing occultation of the same star occurred over almost the length of Japan (figure 7). In order to help positioning Japanese observers of the event, the timings and locations of the observations in Florida were all determined and they were sent to Sôma by a few days before the date of the Japanese event. Based on the reduced lunar profile as given in figure 8, the Japanese event was successfully observed, and 31 observers in five expeditions were able to time a total of 198 contacts. As a result the lunar limb profile was accurately determined as shown in figure 9.

It is regretted that the Japanese expeditions failed to observe the top of the highest mountain located at Watts angle

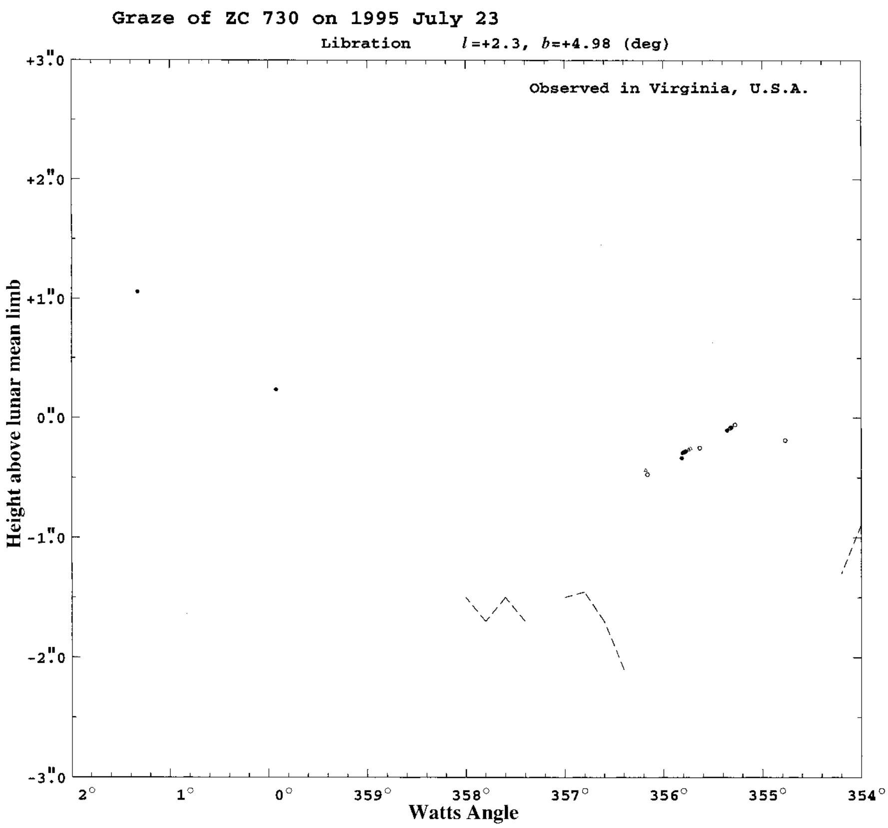

Fig. 1. Limb profile from the 97 Tauri (ZC 730) graze observed on 1995 July 23 in Virginia, U.S.A. The plot uses the mean limb as the horizontal axis. The abscissa is WA (see the text). Since a 1° arc of the Moon's limb at average distance subtends 16″, the vertical scale on the plot is exaggerated by a factor of about 19 over the horizontal scale. The filled circles are from disappearances, the open circles from reappearances, the filled triangles from blinks, and the open triangles from flashes. The curved line represents the profile data from Watts' (1963) charts, the solid part being the one given as accurate and the broken part being the extrapolated inaccurate one.

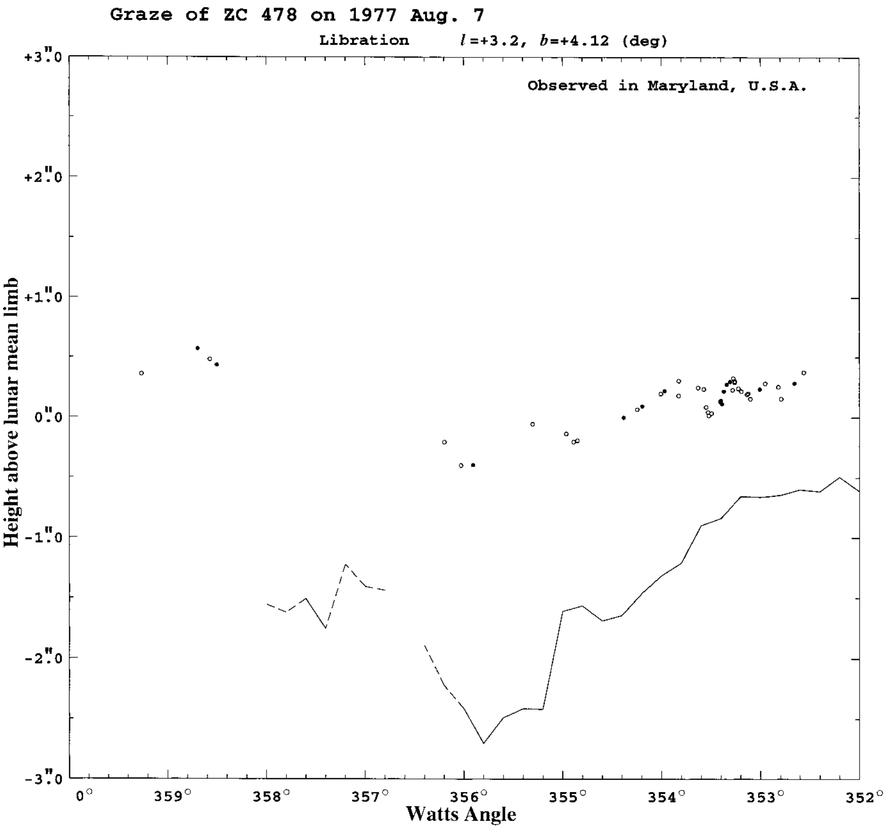

Fig. 2. Limb profile from the ZC 478 graze observed on 1977 Aug. 7 in Maryland, U.S.A. For the explanation, see figure 1.

346°. But about nine hours earlier of the Japanese event a grazing occultation of a 6.9-magnitude star X 5788 (SAO 93963) was observed in North Carolina, U.S.A., and fortunately the top of the mountain at Watts angle 346° was obtained from the observation as shown in figure 10. It is also noted that the two profiles obtained from the two events are slightly different due to the slightly different librations of the Moon.

These grazing occultation observations were summarized in *Sky and Telescope* by Dunham (2001) as the most successful grazing events in the year 2000.

3. Lunar Limb Profile Data

The lunar limb profile data obtained from the grazing occultation observations collected at the ILOC were published by Sôma (1999) and they are used for the predictions of lunar grazing occultations distributed annually from IOTA, but as discussed in the previous section, there are still many grazing events which have no observed lunar limb profiles in the predictions.

Before 1980 lunar grazing occultation observations were collected at RGO. The data were digitized recently by Büttner and other IOTA/European Section members. In total there were about 17,000 timings for 842 grazing occultations in the RGO data, whose number is comparable to the total number of grazing occultations collected at the ILOC and analyzed by Sôma (1999). Those RGO data were analyzed using the same procedure and the same values of the parameters as used by Sôma (1999), which are summarized as follows:

Lunar and planetary ephemeris: DE405/LE405 (Standish 1998)

Star catalog: Hipparcos Catalogue (ESA 1997)

Correction to the Moon's ecliptic longitude and latitude at mean distance (384, 400 km): $\Delta\lambda = +0''.50$ and $\Delta\beta = -0''.24$

Radius of the Moon: $R_0 = 1738.107$ km

Correction for the ellipticity of Watts' datum: $\Delta\rho = +0''.128 \sin 2(\mathrm{WA})$

Relation of Watts angle (WA) with axis angle (AA): $\mathrm{WA} = \mathrm{AA} + 0^\circ.24$

Here WA is the argument of position angle in Watts' charts, and AA is the position angle measured from the lunar north pole. For the basis of each adopted value, see Sôma (1985).

It should be noted that nowadays precise geodetic coordinates of the observation stations can be obtained from GPS measurements, but during the intervals of the observations of which the current analysis was made those coordinates were usually measured from geographical survey maps whose accuracy is considered to be typically about 1 arcsec. This accuracy corresponds to within $0''.02$ arcsec for the obtained lunar limb profile accuracy, which is enough for the purposes of the present paper.

The obtained lunar limb data are given in table 1 for every 0.2 deg of Watts angle. In order to preserve only reliable data, observations with only a small number of limb points or with many inconsistent data are rejected. In table 1 the observations which have the mean number of observed limb points for every 0.2 deg of WA of more than 1.5 are given, and the rejected data are stored in another file to be used for future analyses.

The data in table 1 are given in the format which is compatible with the input data for IOTA's ACLPPP (Automatic Computer Lunar Profile Printing Program) profile predictions. The byte-by-byte description is given below.

```
1st line for every grazing occultation:

1-4
5-8     Watts Angle range in 0°.1

9-10    Limit: 1 means northern limit, -1 means
        southern limit

11-14
15-18   Usable latitude libration range in 0°.01

19-22
23-26   Usable longitude libration range in 0°.01

27-33   Catalog identifier and number in the catalog
        of the star; Catalog identifier X means XZ
        (Schmidt & Van Flandern 1977) and ZC means
        Robertson's (1940) zodiacal catalog

35-42   Observation date MM/DD/YY (Year is subtracted
        by 1900)

43-45   Number of the profile data given

46-50   Libration in longitude in degrees

51-55   Libration in latitude in degrees

57-59*  Basis of the analysis (99B is the basis in
        the present paper)

61-65*  Number of observed profile points used to
        derive the data

66-70*  Standard error in the star's declination

71-74*  Star's magnitude

The values in the columns indicated by * were not
given in the original ACLPPP input data.

2nd and the following lines for every grazing oc-
cultation:
    The profile data and the accuracy code are
    given successively for every WA at an interval
    of 0°.2 in each of the 5 columns. In one line
    the data for up to 16 Watts Angles can be
    given. In each of the 5 columns the first 4
    byte gives the limb profile height in 0".01,
    and the last byte gives the code for the
    accuracy of the limb profile height
    (3 means good and 4 means extrapolated).
```

The data are arranged so that the data for brighter stars come later and therefore information farther down in the table can be regarded as more reliable. Hence the data farther down can override the earlier data for the same librations and WA.

The data in table 1 can be used for the predictions of lunar grazing occultations together with the profile data provided by Sôma (1999). The positions on the lunar surface where the profile data were obtained are shown in figures 11 and 12. The figures use P and D coordinates where D is the distance from the meridians of longitude $l = \pm 90°$ measured positively toward the Earth and P is measured along those meridians from the north pole counterclockwise as seen from the Earth. Formulae to obtain P and D from the librations l and b and the position angle Π are given by Watts (1963). As shown in figures 11 and 12 the number of the lunar limb profile data obtained from grazing occultations are almost doubled by the current analysis.

4. Conclusions

The grazing occultations collected at RGO were analyzed. The resulted lunar profile data can be used together with the data provided by Sôma (1999) for the predictions of lunar grazing occultations in order to locate observers at better positions, so that they can also get good grazing occultation data to improve the lunar limb profiles. These data will be used in the future analyses of solar eclipse observations and the possible errors of the Hipparcos proper motion system.

Mr. Dietmar Büttner in Germany and other IOTA/European Section members provided us the digitized grazing occultation data. David Herald in Australia corrected some of the errors in the digitized data. The authors would like to express their hearty gratitude to all of them. Thanks are also due to many amateur astronomers who made the observations analyzed in this paper.

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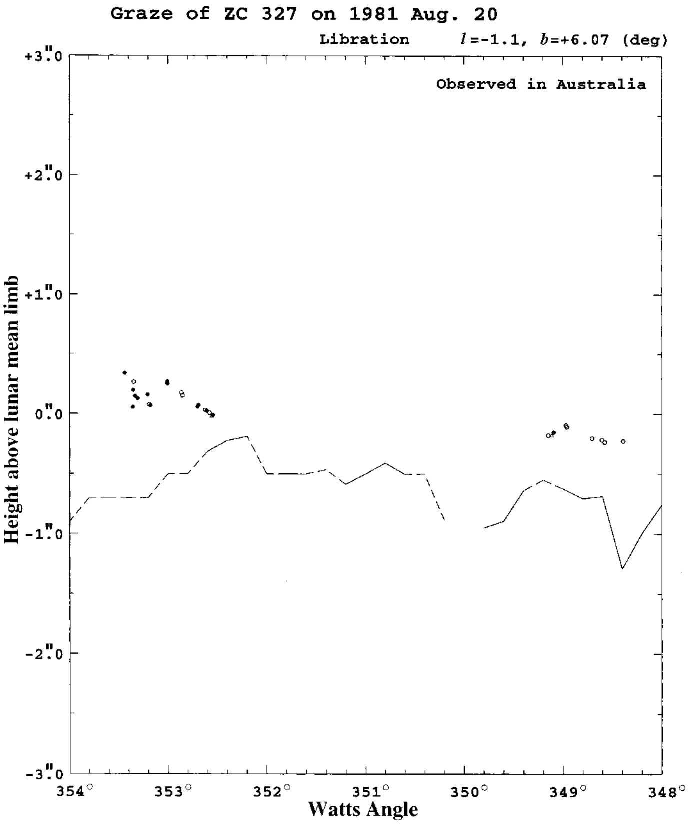

Fig. 3. Limb profile from the ξ^1 Ceti (ZC 327) graze observed on 1981 Aug. 20 in Australia. For the explanation, see figure 1.

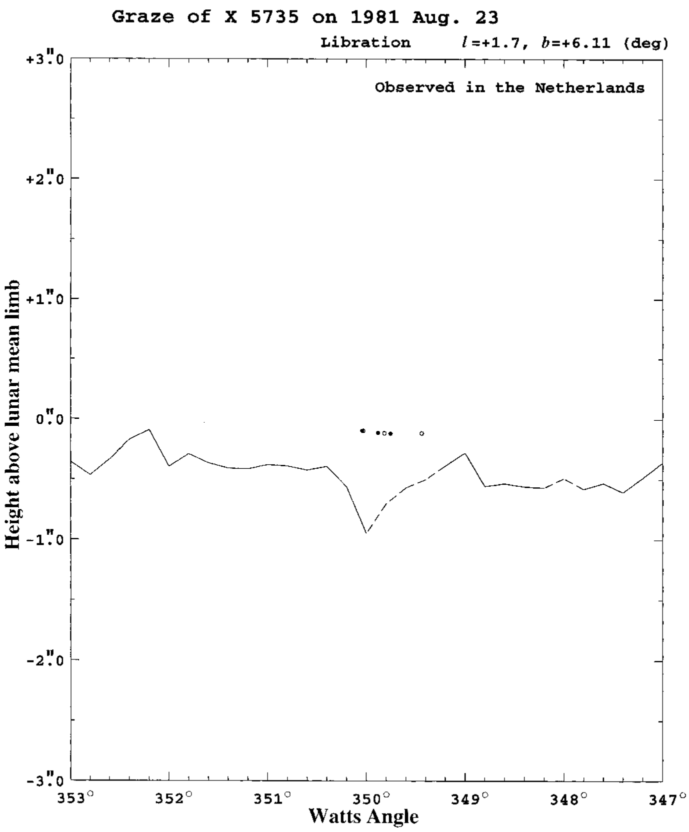

Fig. 4. Limb profile from the X 5735 graze observed on 1981 Aug. 23 in the Netherlands. For the explanation, see figure 1.

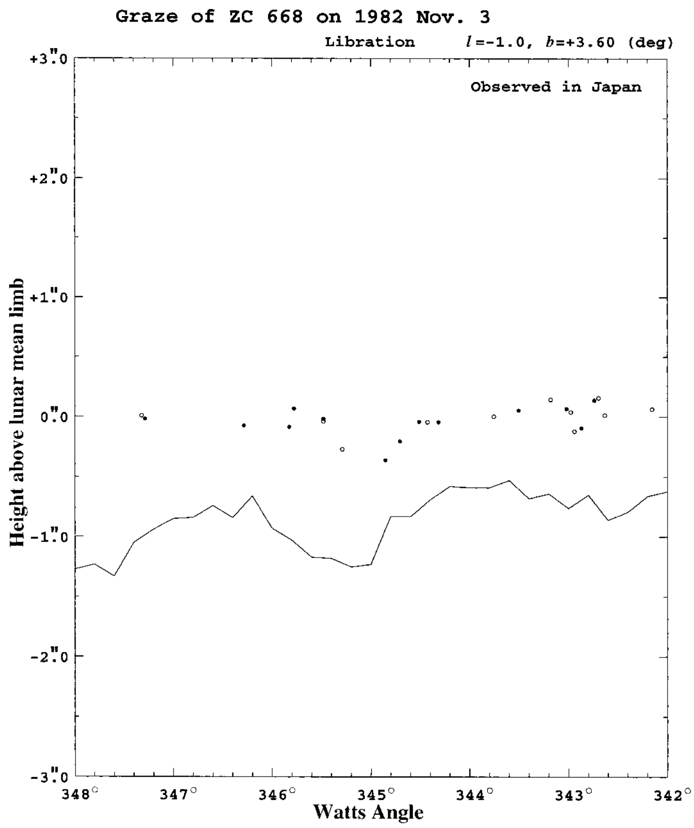

Fig. 5. Limb profile from the ϵ Tauri (ZC 668) graze observed on 1982 Nov. 3 in Japan. For the explanation, see figure 1.

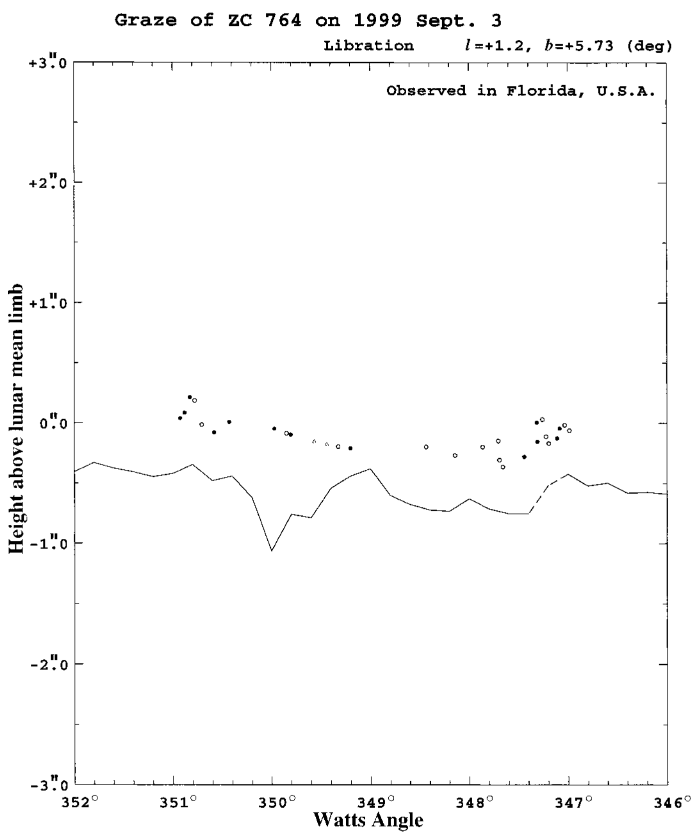

Fig. 6. Limb profile from the 104 Tauri (ZC 764) graze observed on 1999 Sept. 3 in Florida, U.S.A. For the explanation, see figure 1.

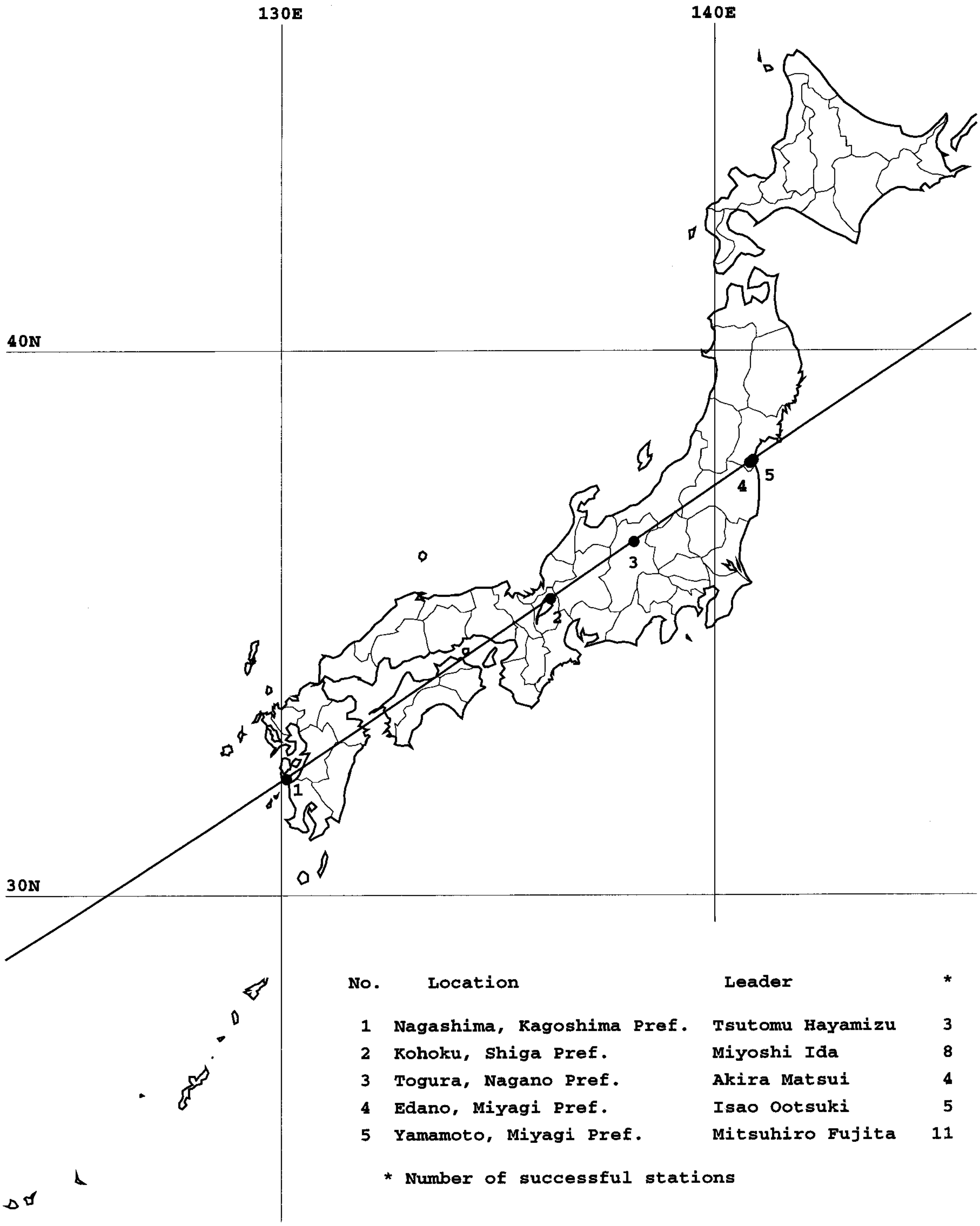

Fig. 7. Northern limit of the 97 Tauri (ZC 730) graze on 2000 Aug. 23. The dots represent the places where the observations were made.

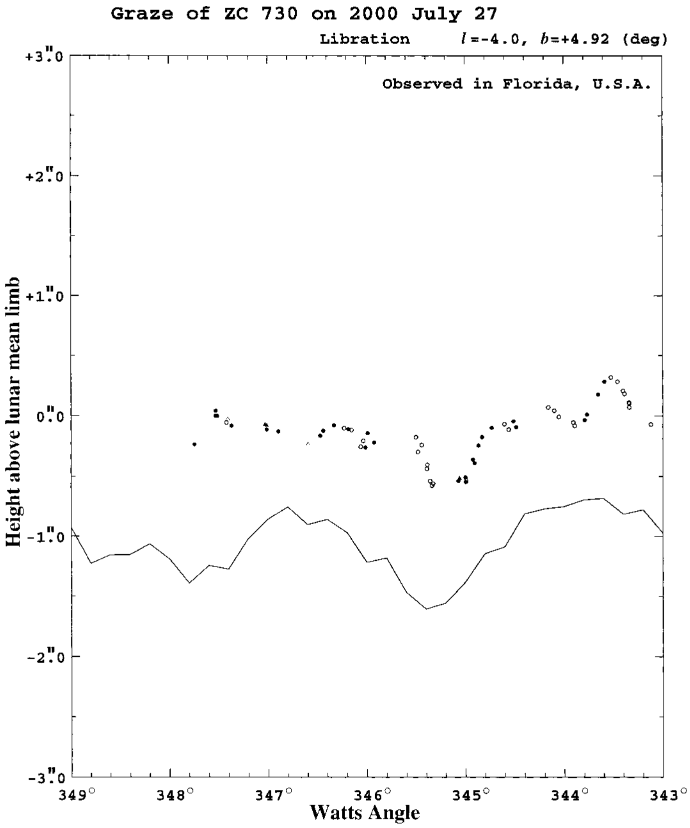

Fig. 8. Limb profile from the 97 Tauri (ZC 730) graze observed on 2000 July 27 in Florida, U.S.A. For the explanation, see figure 1.

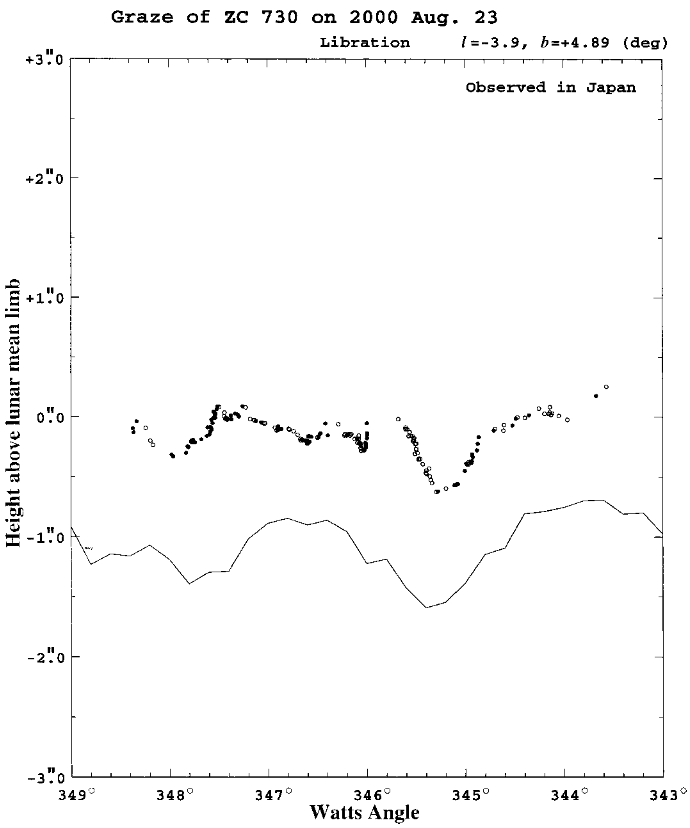

Fig. 9. Limb profile from the 97 Tauri (ZC 730) graze observed on 2000 Aug. 23 in Japan. For the explanation, see figure 1.

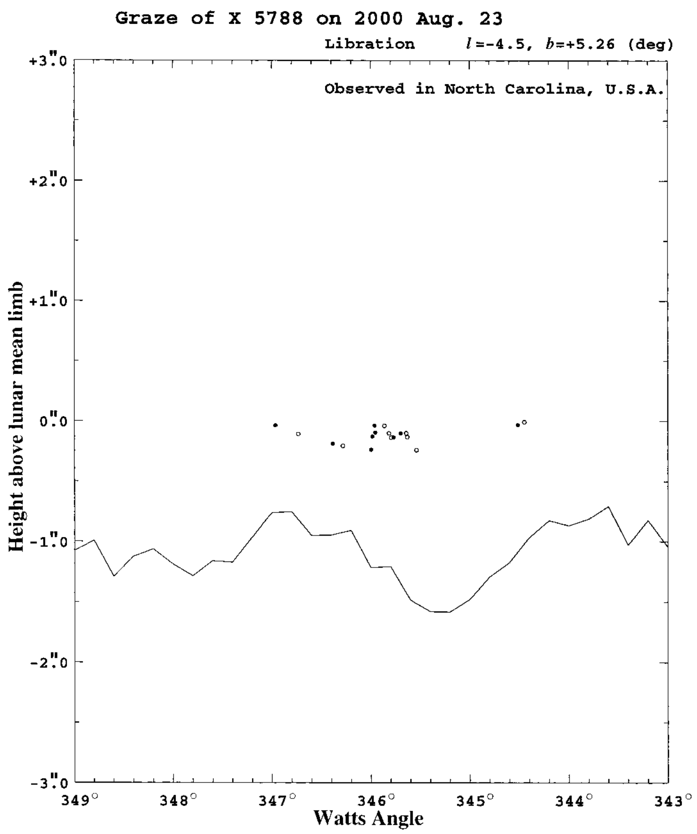

Fig. 10. Limb profile from the X 5788 (SAO 93963) graze observed on 2000 Aug. 23 in North Caroline, U.S.A. For the explanation, see figure 1.

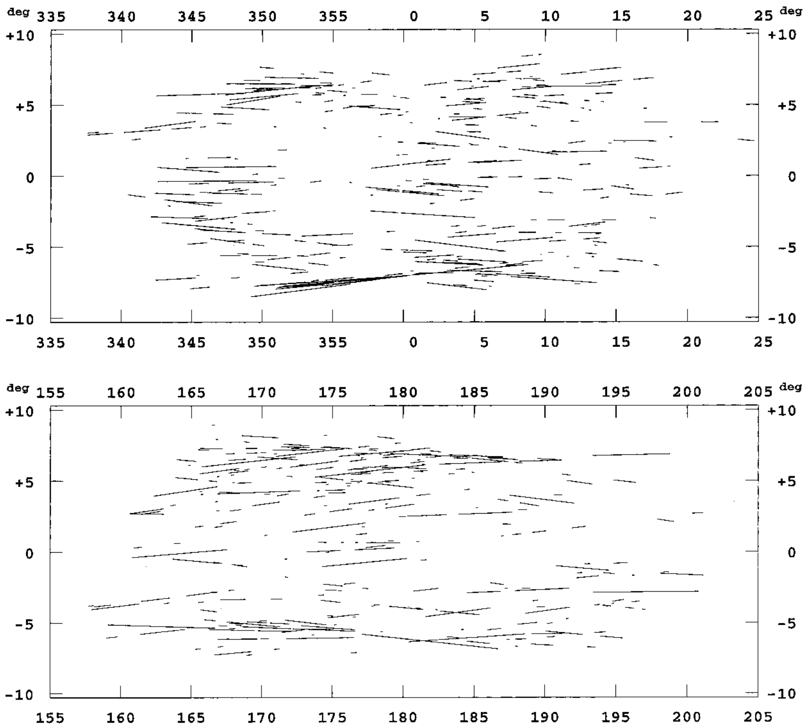

Fig. 11. Location on the moon in the P-D frame that has the limb profile data given by Sôma (1999).

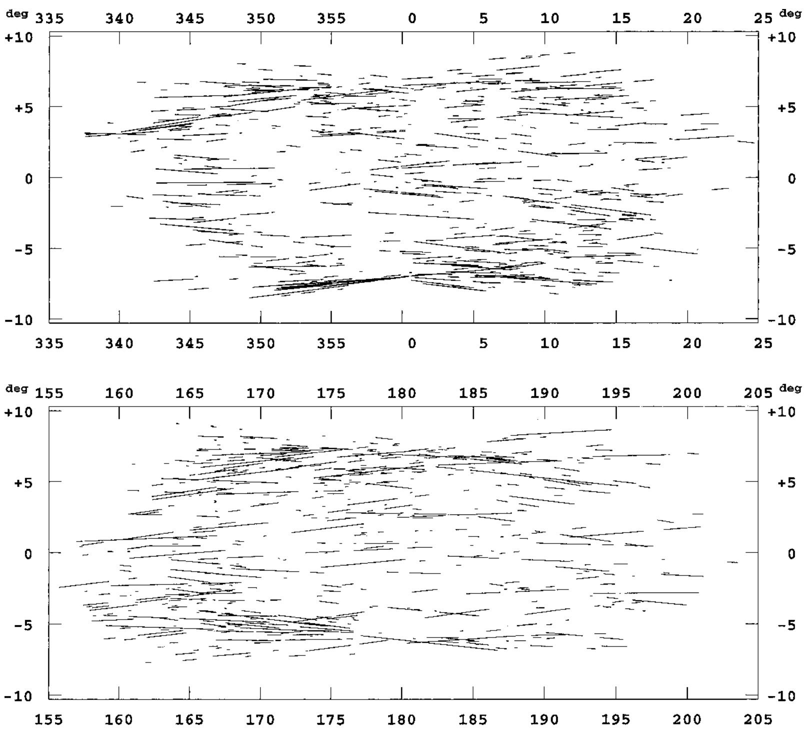

Fig. 12. Location on the moon in the P-D frame that has the limb profile data given by Sôma (1999) and in the present paper.

Table 1. Lunar Limb Profile Data.

```
35803584 1-388-288  90 690X  6966 09/01/72  3 3.9 -3.38 99B     6 0.02 9.4
  383  503  343
16301636-1-631-531-340 260X 29210 12/18/74  4-0.4 -5.81 99B     6 0.02 9.4
 -993-1143 -993-1133
16981708-1-631-531-340 260X 29210 12/18/74  6-0.4 -5.81 99B     3 0.02 9.4
-1354-1314-1284-1243-1194-1153
35583564 1-104  -4 360 900X 10477 09/30/72  4 6.6 -0.54 99B     6 0.03 9.3
   23 -163 -244 -333
18421842-1 450 550 140 740X 13920 10/20/73  1 4.4  5.00 99B     1 0.01 8.7
 2224
18621866-1 450 550 140 740X 13920 10/20/73  3 4.4  5.00 99B     4 0.01 8.7
 -223 -213  -63
18741874-1 450 550 140 740X 13920 10/20/73  1 4.4  5.00 99B     1 0.01 8.7
  704
 138 152 1   8 108-610 -10X  6976 04/26/74  8-3.1  0.58 99B     4 0.01 8.7
  174  194  224  254  274  304  333  303
 160 180 1   8 108-610 -10X  6976 04/26/74 11-3.1  0.58 99B    12 0.01 8.7
  163  153  174  183  203  233  154   73   24  -44  -94
  90 106 1  87 187-900-300ZC  495 03/07/76  9-6.0  1.37 99B     6 0.02 8.7
  253  184   53  154  193   84  -44 -363 -393
 156 164 1  87 187-900-300ZC  495 03/07/76  5-6.0  1.37 99B     4 0.02 8.7
   43   74  103  133  153
18621864-1  16 116 420 900X 14048 10/13/71  2 7.2  0.66 99B     3 0.01 8.6
 -804 -553
19181920-1  16 116 420 900X 14048 10/13/71  2 7.2  0.66 99B     3 0.01 8.6
 1473 1633
  72  80 1-603-503 110 710X  5287 03/20/72  5 4.1 -5.53 99B     6 0.03 8.6
 -373 -344 -313 -343 -223
 114 126 1-603-503 110 710X  5287 03/20/72  7 4.1 -5.53 99B    12 0.03 8.6
 -283 -173 -144   03 -103   03 -103
 158 170 1-388-288 330 900X 10357 04/30/71  7 6.3 -3.38 99B    13 0.02 8.4
   83  163  133  173  113  183  213
 178 182 1-388-288 330 900X 10357 04/30/71  3 6.3 -3.38 99B     3 0.02 8.4
  393  454  333
 104 106 1 457 557-900-440X  9495 05/04/76  2-7.4  5.07 99B     5 0.01 8.4
 -623 -653
 166 166 1 457 557-900-440X  9495 05/04/76  1-7.4  5.07 99B     2 0.01 8.4
  143
  60  64 1  48 148-830-230X  4099 03/06/76  3-5.3  0.98 99B     8 0.02 8.3
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 104 104 1  48 148-830-230X  4099 03/06/76  1-5.3  0.98 99B     3 0.02 8.3
 -173
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  303  304  293
  88  96 1 -65  35 -80 520ZC  216 01/26/77  5 2.2 -0.15 99B     6 0.03 8.3
 -283 -404 -213  154  -23
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   53  204  283  243   63  303  213  223  154  -13  -63
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  254  304  264  113  -43
 132 136 1-350-250-860-260X  5514 03/01/74  3-5.6 -3.00 99B     6 0.01 8.2
  153  373  363
16381650-1-474-374 -80 520X 27868 10/23/74  7 2.2 -4.24 99B     7 0.02 8.2
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  893  343  243
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 1613 1533
19301930-1 622 722-150 450X 19119 12/12/71  1 1.5  6.72 99B     2 0.01 8.1
  853
19681978-1 622 722-150 450X 19119 12/12/71  6 1.5  6.72 99B     9 0.01 8.1
  213  183  223  374  513  603
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Table 1.

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 -123 -503
16341642-1-322-222-660 -60X 28070 10/06/73  5-3.6 -2.72 99B     5 0.02 8.1
  153  553  693  503 -104
16481660-1-317-217-670 -70ZC 2948 10/06/73  7-3.7 -2.67 99B     5 0.02 8.1
 -943-1223-1254-1153-1123 -914 -713
  92 112 1 -35  65-840-240X  3800 02/08/76 11-5.4  0.15 99B    19 0.01 8.1
  193   84  -24 -133 -213 -253 -323 -363 -403 -403 -483
 122 130 1 -35  65-840-240X  3800 02/08/76  5-5.4  0.15 99B     8 0.01 8.1
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  343  163
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Table 1.

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 182 184 1 -79  21-140 460ZC 1017 03/13/73  2 1.6 -0.29 99B     2 0.02 7.0
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Table 1.

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Table 1.

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  803  323 -153 -244   03  154  603 1583
35803598 1-631-531 220 820ZC 2969 03/15/77 10 5.2 -5.81 99B     9 0.02 3.0
   33  264  483  164 -164 -483 -334 -193 -154 -123
  14  20 1-631-531 220 820ZC 2969 03/15/77  4 5.2 -5.81 99B     6 0.02 3.0
 -403 -524 -643 -613
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34743480 1 253 353 330 900ZC  847 10/08/63  4 6.3  3.03 99B     6 0.03 3.0
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  143   83
  78  78 1 667 767-880-280ZC 2287 07/24/69  1-5.8  7.17 99B     5 0.02 2.9
  103
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  473  513  804  883  874  853  733  553  333  323  324  324  323  343  173  -23
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 -523 -543 -503 -523 -483 -543
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 -303 -503
15941648-1-250-150-500 100ZC 2797 10/04/73 28-2.0 -2.00 99B    56 0.01 2.9
 2473 2473 2503 2423 2453 2413 2173 1573  953   94 -763-1253-1003-1004-1204-1443
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 -543 -243  563  973  833 1213 1833 1994 2163 1863 1233  953  583  373  543
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   83
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Table 1.

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  653  933 1143 1454 1393 1003 1263 1373 1633 1863 1993 2103 1874 1654 1433 1073
  804  993 1124 1263
19401948-1  15 115-160 440ZC  976 10/17/73  5 1.4  0.65 99B     5 0.01 2.9
 1203  863  284 -293 -303
19561976-1  15 115-160 440ZC  976 10/17/73 11 1.4  0.65 99B    12 0.01 2.9
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18821952-1 691 791-780-180ZC 2383 03/28/70 36-4.8  7.41 99B    85 0.01 2.8
 1553 1903 1304 1553 1153 1403 1304 1223 1323 1233 1113 1183 1194 1203 1283 1253
 1113  853  813  993 1103 1043 1133 1083  693  513  464  423  513  863  854  843
  683  723  613  423
16601664-1 691 791-900-500ZC 2383 08/12/70  3-8.0  7.41 99B     3 0.01 2.8
 1183 1203 1323
16781686-1 691 791-900-500ZC 2383 08/12/70  5-8.0  7.41 99B     6 0.01 2.8
  573  243   04   03  604
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 -154
35763580 1-552-452-250 350ZC  552 07/07/72  3 0.5 -5.02 99B    10 0.01 2.8
  233  523  553
   2  16 1 -48  52  90 690ZC 2118 01/24/76  8 3.9  0.02 99B     9 0.01 2.8
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  263  173  493  623
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  704 1554 1713
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-1003 -784 -643 -503 -333 -223
  82  86 1 228 328 260 860ZC 2290 04/10/74  3 5.6  2.78 99B     5 0.04 2.4
  463  503  423
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  553  443
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  193   23   54   73  -23 -174 -323 -354 -393 -393 -393 -383
  92  92 1-718-618  60 660ZC  810 09/04/69  1 3.6 -6.68 99B     1 0.01 1.6
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 -183 -263
   0  24 1 -90  10  40 640ZC 1487 06/18/80 13 3.4 -0.40 99B    32 0.01 1.4
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 110 166 1 558 658-270 330ZC 2366 06/10/68 29 0.3  6.08 99B    62 0.03 1.0
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   04 -183 -503 -203 -433 -263 -193 -293 -253 -234 -203  -53   43
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 136 148 1 571 671-420 180ZC 2366 12/18/68  7-1.2  6.21 99B    13 0.03 1.0
  163  153   63   24  -33  -53  -83
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Table 1.

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 126 148 1 587 687-900-300ZC 2366 02/28/70 12-6.0  6.37 99B    16 0.03 1.0
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 1253 1423 1373 1184 1004  813  673  373  364  353  663  963  863  603  393  613
  834 1054 1274 1264 1254 1253  884  523   03 -483 -364 -234 -113   03
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  323  574  813  994 1163
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 2413 2383 2213 1593
 172 212 1 251 351-900-500ZC 1925 06/24/69 21-8.0  3.01 99B    40 0.01 1.0
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  353 -453
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 -243
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18301868-1 616 716-120 480ZC  692 04/11/78 20 1.8  6.66 99B    52 0.01 0.9
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  244  524  803  723
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  713  753  854  963  954  934  923  703
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 1553 1613 1463  754  703 1223 1023  763  303 -404
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17701776-1 622 722 160 760ZC  692 07/02/78  4 4.6  6.72 99B    13 0.01 0.9
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  -43  -34  -13
35943598 1 673 773 290 890ZC  692 08/26/78  3 5.9  7.23 99B     3 0.01 0.9
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   0  10 1 673 773 290 890ZC  692 08/26/78  6 5.9  7.23 99B    11 0.01 0.9
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18101814-1 624 724 190 790ZC  692 09/22/78  3 4.9  6.74 99B    15 0.01 0.9
  543  793 1023
18301834-1 624 724 190 790ZC  692 09/22/78  3 4.9  6.74 99B     8 0.01 0.9
 2073 2093 2043
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 1024  854  654  503  223  -43  -44  254  393  693  763  944 1123 1443 1904 1723
 1443
34623462 1 679 779 530 900ZC  692 09/12/79  1 8.3  7.29 99B     1 0.01 0.9
  144
34823550 1 679 779 530 900ZC  692 09/12/79 35 8.3  7.29 99B    60 0.01 0.9
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  293  363  303
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  684
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  733
  18  18 1 675 775 370 900ZC  692 03/21/80  1 6.7  7.25 99B     2 0.01 0.9
  253
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