REPORT UAG-73

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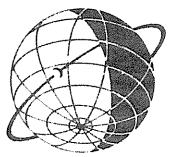
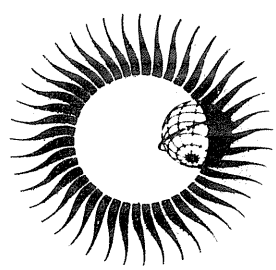


# AURORAL ELECTROJET MAGNETIC ACTIVITY INDICES AE(11-12) FOR JANUARY - JUNE 1975



August 1979

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REPORT UAG-73

# AURORAL ELECTROJET MAGNETIC ACTIVITY INDICES AE(11-12) FOR JANUARY - JUNE 1975


by

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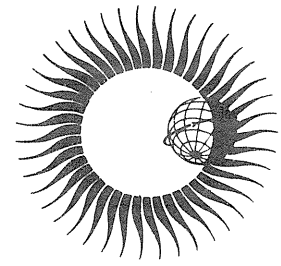


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ABSTRACT

The Auroral Electrojet index (AE) is discussed and a brief description is given of the derivation of 11-12 station 1.0-min AE indices for January-June 1975. Tables are given of hourly average indices for each day, of the stations making the main contribution to the hourly indices, and of the average monthly quiet-time level of horizontal fields (H) at each magnetic observatory. Graphs of the index variations are included for each day of the first half of 1975 and for the frequency and amplitude of extreme variations at each site.

## SECTION I. GENERAL DISCUSSION

### 1. Derivation of AE (11-12) Indices for January-June 1975

*Introduction.* The Auroral Electrojet index (AE) is designed to provide a global, quantitative measure of auroral zone magnetic activity produced by enhanced ionospheric currents flowing below and within the auroral oval. Ideally, it is the total range of deviation at an instant of time from quiet day values of the horizontal magnetic field (H) around the auroral oval. Defined and developed by Davis and Sugiura [1966], AE has been usefully employed both qualitatively and quantitatively as a correlative index in the studies of substorm morphology, in the behavior of communication satellites, in radio propagation and radio scintillation, and in the coupling between the interplanetary magnetic field and the Earth's magnetosphere. For these varied uses, AE possesses advantages over other geomagnetic indices or at least shares their advantageous properties. In particular it can

(1) be derived on an instantaneous basis or from averages of variations computed over any selected interval;

(2) be a quantitative index which, in general, is directly related to the processes producing the observed magnetic variations;

(3) be well suited to present computer processing techniques because its method of derivation is relatively simple, digital, and objective and;

(4) be used to study either individual events or statistical aggregates.

These indices are derived in response to indications of need as voiced by the scientific user community in journal articles, at meetings, in resolutions of national and international groups, and in personal communications. This report is one means of communicating a summary of the derived indices for 1 year and is the thirteenth such compilation published by the World Data Center A (WDC-A) for Solar-Terrestrial Physics [Allen, 1972; Allen *et al.*, 1973, 1974a, 1974b, 1974c, 1975a, 1975b, 1975c, 1976, 1977a, 1977b, 1977c and 1977d]. Computer listings or digital magnetic tapes of detailed 2.5-min* indices and microfilm graphs of their variations can be obtained from WDC-A for Solar-Terrestrial Physics, NOAA, Boulder, Colorado 80303, USA. Detailed lists of available indices are given, along with cost of acquisition information in Report UAG-49, *Catalog of Standard Geomagnetic Variation Data,* WDC-A for Solar-Terrestrial Physics, August 1975.

*Definition of AE Indices.* In practice, AE and associated indices may be defined by describing a graphical technique of derivation that is still used to generate preliminary sets of indices for single events (see Fig. 1). Magnetogram copies for a given UT-day are collected from a select group of auroral zone magnetic observatories. A quiet-time H (horizontal intensity of the Earth's field) reference level is selected for each site and subtracted from the instantaneous H values for that location. The resulting time series of $\Delta H$ values for all locations are superposed graphically upon a common zero level and with a common amplitude scale and time base. Connecting successive positive extreme values produces an upper envelope for the set of overlapping traces, and connecting the negative extreme values produces a bounding lower envelope. At any instant, the amplitude of the upper envelope is designated AU and that of the lower envelope is AL. The range between them is defined as AE and their mean is AO. In general, AU is a function of the current flowing in the eastward-directed auroral electrojet, while AL is similarly related to the westward auroral electrojet.

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*(more recently 1.0-min)

*Observatory Selection for January-June 1975 AE (11-12).* To provide comparable AE indices from year to year, data for the same Northern Hemisphere auroral zone observatories have been used for the derivation of AE(10) for 1966 (Report UAG-37) and 1967 (Report UAG-33); AE (11) for the years 1968 (Report UAG-29), 1969 (Report UAG-31), 1970 (Report UAG-22), 1971 (Report UAG-39), 1972 (Report UAG-45), 1973 (Report UAG-47), 1974 (Report UAG-59) and the first 6 months of 1975 in this report are listed below in Table 1 along with their abbreviations, geographic and geomagnetic coordinates, and time of Local Geomagnetic Midnight (LGM). The station locations are shown relative to the geomagnetic pole (extended geocentric dipole axis) in Figure 2.

Table 1. Observatories Used for the Derivation of 1966 and 1967 AE(10)** and 1968, 1969, 1970, 1971, 1972, 1973, 1974 AE(11) and 1975 AE(11-12)

| | Observatory | Abbreviation | Geographic Coord. N. Lat.° | E. Long.° | Geomagnetic Coord. N. Lat.° | E. Long.° | LGM* UT |
|---|---|---|---|---|---|---|---|
| 1. | Leirvogur | LR | 64.18 | 338.30 | 70.22 | 71.04 | 2351 |
| 2. | Narssarssuaq** | NAS | 61.20 | 314.16 | 71.21 | 36.79 | 0210 |
| 3. | Great Whale River | GWR | 55.27 | 282.22 | 66.58 | 347.36 | 0526 |
| 4. | Fort Churchill | FC | 58.80 | 265.90 | 68.70 | 322.77 | 0704 |
| 5. | Yellowknife | YEK | 62.40 | 245.60 | 69.00 | 292.80 | 0902 |
| 6. | College | CO | 64.87 | 212.17 | 64.63 | 256.52 | 1133 |
| 7. | Barrow | BW | 71.30 | 203.25 | 68.54 | 241.15 | 1235 |
| 8. | Cape Wellen # | UE | 66.17 | 190.17 | 61.79 | 237.10 | 1250 |
| 9. | Tixie Bay # | TI | 71.58 | 129.00 | 60.44 | 191.41 | 1551 |
| 10. | Cape Chelyuskin | CC | 77.72 | 104.28 | 66.26 | 176.46 | 1650 |
| 11. | Dixon Island # | DI | 73.55 | 80.57 | 63.02 | 161.57 | 1748 |
| 12. | Abisko | AI | 68.36 | 18.82 | 66.04 | 115.08 | 2052 |
| 13. | Sodankyla** | SO | 67.37 | 26.63 | 63.76 | 119.99 | 2032 |

* Local Geomagnetic Midnight (LGM) at equinox.
Geomagnetic coordinates and time calculated for inclined geocentric dipole field.
** No records available for 1966 and 1967 from NAS, and SO substituted for AI in the 1966 and 1967 AE(10) derivations.
# Sometimes given as: Cape Uelen, Tiksi Bay and Dikson Island, respectively.

The choice of observatories was based upon a desire to achieve a nearly uniform longitudinal coverage and also to span a range of latitudes so that even contracted oval substorm effects might be recorded. Another consideration was that the magnetograms should come from established observatories whose records would continue to be available on a timely basis through the World Data Center system. Naturally, such a choice involved some compromise between the wish to use as much data as possible and the high cost of digitizing analog magnetograms. Statistical summaries are kept with each derivation, showing the relative contribution of each observatory to the indices to identify possible instances of duplication and to reveal inadequately represented regions.

Although we have been able to use the same set of stations for recent years, for earlier years the number of stations providing records changed from time to time. Prior to 1968, the station at Narssarssuaq (NAS) did not exist, and there was no nearby substitute. During most years there have been intervals of varying length for which one or two of the network stations did not produce magnetograms. Further, it is hoped that additional stations may eventually be added to the network to fill longitude gaps. For these reasons we have chosen to indicate the number of contributing stations parenthetically, following the index letters, e.g., AE(10). The daily graphs of variations in 1.0-min AU, AL, AE and AO indices included in this report (Section III) show in the upper right corner the number of contributing stations during the month. If no value is given in the table of monthly average quiet-time H values (Section II-2), this indicates that records from that station were not available for use in the derivation of AE indices. This is also shown by the label on the graphs which reflects the reduced number of contributing stations. Intervals of lost records shorter than 1 month are not indicated.

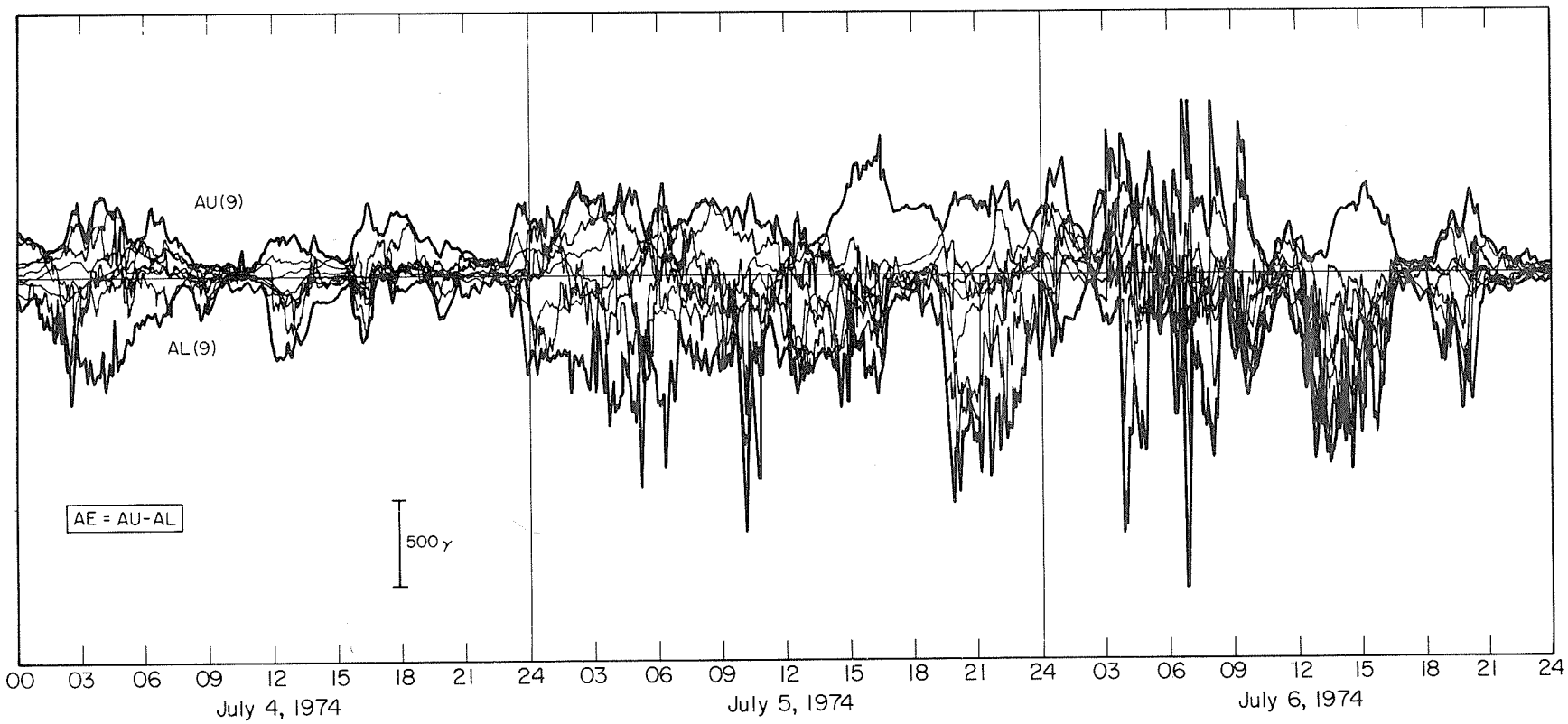


Fig. 1. Preliminary AU(9) and AL(9) by graphical superposition. Graphically derived AU(9) and AL(9) indices are formed by superposing ΔH traces from nine auroral zone observatories onto a common zero level. The AE index at any instant is AU minus AL.

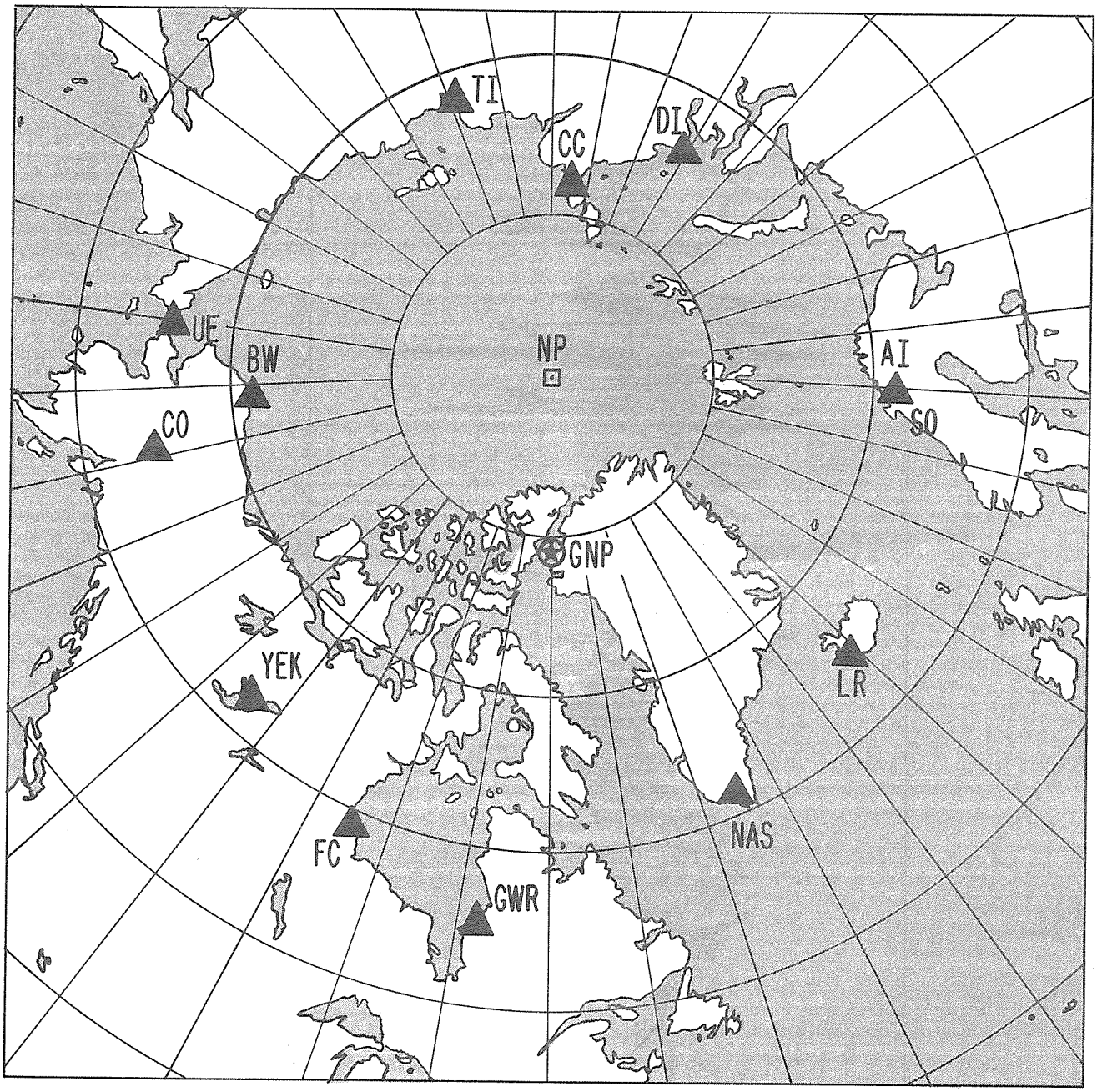


Fig. 2. Observatories whose records were used in the derivation of 1966 and 1967 AE(10) and 1968, 1969, 1970, 1971, 1972, 1973, 1974 AE(11) and 1975 AE(11-12) are shown as filled triangles. Their abbreviations correspond to the list given in Table 1. The map is a polar equal-area projection centered on the north geomagnetic pole (extended geocentric dipole axis). The north geographic pole is indicated by a star inscribed in a circle.

Analysis of AE(11) index data for the years 1968 through 1970 suggests that an optimum station distribution would include locations just equatorward of the instantaneous auroral oval during the local evening hours which most often supplied AU (around 1800 LGT) and others directly under the oval during the early morning hours following Local Geomagnetic Midnight when most AL values are supplied (around 0300 LGT). [Note: LGT = Local Geomagnetic Time.]

*Computation of AE(11-12) Indices.* The same technique of computation used for all prior AE derivations has been followed with the 1975 derivation. It is described in detail in *Report UAG-22* [Allen, 1972]. A constant quiet-time H reference level was computed for each month for each station. It is the average of all 1.0-min H values for the 5 International Quiet Days of that station-month. The quiet-time reference values were then subtracted from the 1.0-min H scalings of each station and the 11 (or 12) resulting H-deviation time series were compared. At each 1.0-min data interval the extreme positive and negative H deviations were identified and designated AU(11) and AL(11) respectively. According to their definitions, AE(11) = AU(11) - AL(11) and AO(11) is the mean of AU(11) and AL(11). These are the basic AE data. In addition, hourly average values of each index were computed and simple statistical information was collected.

Daily graphs of variations of all four 1.0-min indices (AU,AL,AE and AO) prepared from 35-mm microfilm are reproduced in this report in Section III. Also in Section III are monthly stacked plots of commonscale H (or X)component variations, of station frequency of AU and AL contribution, and of the cumulative (i.e. "total") amplitude of variations. Monthly summaries of hourly average values, daily averages, and hourly averages for special groups of days were prepared and are given in Section II. Also derived were tables showing the frequency of selection of each station for AU and AL and giving the times at which each station supplied the extreme deviations. These results are the basis for monthly sets of tables of stations supplying AU and AL for each hour.

## 2. Precautionary Notes

*Problems in Derived AE(11) Indices.* Users of these indices should be aware of the following points that may affect the interpretation of index information contained in this report. Three potential sources of misleading or unreliable indices are

(1) the working definition of AE used in the derivation of the indices,

(2) the character of the magnetogram records and

(3) the digitization and data manipulation processes.

At an AE observatory an increased deviation from quiet-time H may be the same for either an enhanced electrojet current or for a constant current that moves closer to the fixed observatory location. Given a necessarily limited number of contributing observatories and an index based exclusively upon variations in the H component, it is not always possible to distinguish between these two alternatives. If an event is of sufficient magnitude and extent so as to be observed simultaneously at several locations or if it is of sufficient duration to be recorded by successive observatories rotating into the critical longitude sectors, then such ambiguity may be resolved.

Effects of low-amplitude electrojet variations of short duration that occur during otherwise quiet intervals when the auroral oval is contracted may be imperfectly recorded. If such small events occur over sectors between widely separated observatories, they could be missed entirely, although past experience does not suggest that this happens frequently. Also, during very large magnetic disturbances, the auroral oval may expand equatorward below the ring of stations used to derive AE. Thus, times of low AE may not guarantee a total absence of magnetic activity over the polar cap, and during large magnetic storms, the indices are of questionable reliability.

At the observatories, any problem that causes the H trace to be unstable or that causes loss of the record during disturbed times must inevitably affect the AE indices derived for such intervals. In general, periods of component drift at an observatory become relatively obvious when they reach an amplitude sufficient to obscure genuine variations recorded at other locations. Although efforts are made to salvage useful information during these intervals, sometimes the only solution has been elimination of that observatory's records until instrumental adjustments appear to have corrected the problem.

A more serious problem arising from the character of the magnetograms is any time for which the H trace is effectively lost. This can occur because the trace moves off the recording paper in response to a large magnetic variation, poor recording of a rapidly moving trace, or confusion of multiple traces on a magnetogram. At such times, unless there exist back-up low sensitivity magnetograms from auxiliary systems at that location, the number of contributing stations is reduced. When the H trace is suddenly lost at a critically located station that was supplying either AU or AL, then some other station having the next most extreme H deviation at that instant begins to take the place of the lost data source and becomes the key to the affected index. Although such intervals are not usually noticeable in the graphs of AE variations, they commonly have the effect of producing a large bay-like feature in the affected AU or AL trace. An example of the effect of such data loss may be seen in the AU trace for 21 July 1970 (cf. Report UAG-22) beginning around 1330 UT. These characteristically-shaped spurious events have been dubbed "missing data effects" (mdes), and any suspected mdes in the 1975 graphs can best be checked by reference to the original magnetograms of the critical stations listed in Section II for those times.

Sometimes our technique of selecting a constant quiet-day H reference level for each station-month of data may produce low-amplitude month-end discontinuities in AU or AL. Also, quiet-time departures of station values from their monthly average may produce intervals having elevated AU or AL values but appearing relatively quiet. Such index discontinuities and intervals of higher noise level are considered relatively insignificant compared to the amplitude of substorm effects to be seen in the indices.

In spite of extensive quality control efforts, we expect that some errors will escape notice and be published or otherwise distributed. We request that anyone detecting questionable values in 1975 AE (11-12) or other AE indices please communicate with WDC-A for Solar-Terrestrial Physics concerning this matter. As necessary, corrections will be distributed to the user community on either a case-by-case basis or in future UAG Reports in this series.

## 3. Acknowledgments

We continue to acknowledge the support, advice and assistance provided by A.H. Shapley and by the many scientist-users of these indices. AE indices are the result of an international cooperative effort involving observatories of six countries, the World Data Center system, and the staff of the National Geophysical and Solar-Terrestrial Data Center. In particular we wish to acknowledge the numerous scientists who have shared with us information concerning their uses of AE indices.

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## SECTION II. TABLES

### 1. Explanation

*Table of Monthly Quiet-Time H Reference Values.* The monthly quiet-time H reference values are given for each observatory in Table 2. These values are the base from which H deviations were derived and they are computed as the average of all 1.0-min digitized H values from the internationally adopted 5 Quiet Days for each month. The given values are in nanoTesla units and are absolute in the sense that they include the applied scale value and provisional baseline used for each observatory's magnetograms. Although subsequent changes in adopted baselines may shift the reference values slightly, they should not affect the derived indices because the method of derivation eliminates the H baseline provided it is constant for the month.

*Tables of Hourly Mean Indices.* These tables contain monthly listings of average hourly indices for each day: AE, AL, AU and AO. These hourly values were computed as the mean of the 1.0-min instantaneous values. The first hour of each day covers the data interval from 0000-0059 UT. All times are given in Universal Time and the indices are given in nanoTeslas. AE is always positive and although AU is positive most of the time, it may become negative during the main phase period of large storms when H is depressed globally by an enhanced ring current. Sometimes AU may briefly become negative as a result of missing data effects (See Section I-2). AL is almost always negative, and during most substorm events, it will exceed AU in absolute value. Consequently, AO is usually negative, and it provides a measure of the unequal amplitude of AU and AL effects.

*Tables of Observatories Supplying Hourly AU and AL.* As described above, the hourly average indices are computed from the 1.0-min instantaneous indices derived for that hour. Each pair of instantaneous values of AU and AL arises from H deviations at only two stations and the station pair contributing these extremes may change from one 1.0-min interval to the next. To associate a single station with values of hourly AU or AL some convention must be adopted as a basis for selection. We have chosen to designate the station having the maximum average H deviation during an hour as the source of hourly AU. Likewise, the station having the most negative H deviation is designated as the source of hourly AL. Within a disturbed hour it is common for one station pair to be the most frequent contributors of AU and AL and also to provide the greatest average deviations in H. There are times, however, when this does not hold. This is the case during an hour that is quiet until near the end or one that has only its first few values disturbed. Here the table will list the stations that provided AU and AL for the short disturbed portion of the hour rather than those stations providing AU and AL for the longer undisturbed portion of the hour. In effect, the listed station pairs are the same stations that would have supplied AU and AL had the indices been derived from hourly scalings of H instead of from averages of 1.0-min values.

These tables serve to illustrate the nonuniform frequency of contribution of AU and AL for different stations of the network. They also illustrate the systematic grouping in Universal Time of the time of most frequent station contribution of AU and AL. Graphs corresponding to these tables are found in Section III-3.

Table 2. Monthly Quiet-Time H Reference Values (Units: Gammas = nT)

| Observatory Name | Year | Jan | Feb | Mar | Apr | May | Jun |
|---|---|---|---|---|---|---|---|
| 1. Leirvogur | 1975 | 12300 | 12301 | 12305 | 12310 | 12316 | 12327 |
| 2. Narssarssuaq | 1975 | 11890 | 11884 | 11905 | 11908 | 11918 | 11929 |
| 3. Great Whale River | 1975 | 9696 | 9706 | 9707 | 9719 | 9734 | 9746 |
| 4. Fort Churchill | 1975 | 7273 | 7271 | 7296 | 7294 | 7292 | 7300 |
| 5. Yellowknife | 1975 | 7572 | 7541 | 7569 | 7578 | 7577 | 7581 |
| 6. College | 1975 | 13042 | 13038 | 13112 | 13043 | 13040 | 13046 |
| 7. Barrow | 1975 | | | | | | 9851 |
| 8. Cape Wellen | 1975 | 14248 | 14248 | 14251 | 14254 | 14251 | 14254 |
| 9. Tixie Bay | 1975 | 7919 | 7921 | 7925 | 7914 | 7914 | 7921 |
| 10. Cape Chelyuskin | 1975 | 3519 | 3526 | 3523 | 3532 | 3521 | 3531 |
| 11. Dixon Island | 1975 | 6494 | 6496 | 6504 | 6508 | 6502 | 6497 |
| 12. Abisko | 1975 | 11816 | 11812 | 11816 | 11819 | 11821 | 11825 |

3. TABLES OF HOURLY AVERAGE AE INDICES

JANUARY 1975 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 181 | 138 | 086 | 143 | 133 | 062 | 042 | 099 | 087 | 113 | 064 | 058 | 040 | 078 | 116 | 114 | 174 | 086 | 043 | 047 | 034 | 037 | 037 | 046 | 086 |
| Q | 02 | 044 | 059 | 073 | 050 | 030 | 025 | 021 | 024 | 028 | 037 | 046 | 028 | 020 | 045 | 112 | 117 | 049 | 048 | 090 | 196 | 116 | 046 | 034 | 028 | 057 |
| | 03 | 029 | 021 | 020 | 021 | 025 | 028 | 039 | 040 | 101 | 269 | 141 | 091 | 146 | 236 | 209 | 195 | 100 | 187 | 286 | 189 | 194 | 191 | 085 | 205 | 127 |
| D | 04 | 371 | 295 | 185 | 214 | 285 | 329 | 396 | 405 | 271 | 269 | 335 | 833 | 424 | 606 | 1210 | 915 | 857 | 417 | 225 | 152 | 249 | 618 | 456 | 357 | 445 |
| | 05 | 229 | 259 | 317 | 199 | 272 | 299 | 412 | 486 | 437 | 384 | 347 | 469 | 689 | 204 | 163 | 477 | 542 | 500 | 386 | 312 | 654 | 432 | 239 | 122 | 360 |
| | 06 | 274 | 137 | 070 | 127 | 107 | 087 | 075 | 056 | 149 | 075 | 172 | 425 | 613 | 313 | 190 | 401 | 292 | 375 | 802 | 629 | 1019 | 739 | 815 | 556 | 357 |
| D | 07 | 1163 | 1062 | 544 | 324 | 218 | 177 | 410 | 429 | 228 | 282 | 358 | 393 | 387 | 122 | 108 | 073 | 105 | 123 | 045 | 044 | 046 | 024 | 017 | 060 | 281 |
| D | 08 | 049 | 054 | 110 | 172 | 296 | 440 | 175 | 451 | 562 | 442 | 364 | 526 | 461 | 366 | 734 | 691 | 748 | 638 | 541 | 747 | 393 | 121 | 107 | 109 | 387 |
| | 09 | 102 | 101 | 058 | 100 | 173 | 220 | 168 | 103 | 220 | 312 | 188 | 169 | 265 | 116 | 163 | 179 | 134 | 227 | 098 | 028 | 041 | 095 | 054 | 028 | 139 |
| | 10 | 036 | 085 | 068 | 026 | 041 | 093 | 159 | 053 | 069 | 121 | 211 | 034 | 044 | 027 | 023 | 024 | 024 | 018 | 016 | 025 | 048 | 035 | 028 | 031 | 056 |
| Q | 11 | 061 | 030 | 051 | 049 | 027 | 028 | 088 | 050 | 087 | 139 | 241 | 161 | 030 | 017 | 018 | 044 | 033 | 039 | 045 | 050 | 041 | 018 | 012 | 031 | 058 |
| Q | 12 | 043 | 037 | 065 | 056 | 028 | 017 | 019 | 014 | 013 | 022 | 028 | 039 | 028 | 020 | 022 | 023 | 022 | 022 | 077 | 107 | 084 | 046 | 035 | 036 | 038 |
| D | 13 | 084 | 397 | 287 | 170 | 301 | 309 | 278 | 301 | 379 | 490 | 246 | 390 | 197 | 554 | 554 | 207 | 115 | 622 | 877 | 465 | 576 | 396 | 415 | 331 | 373 |
| D | 14 | 349 | 275 | 362 | 429 | 376 | 236 | 151 | 351 | 255 | 318 | 289 | 401 | 559 | 719 | 916 | 600 | 728 | 784 | 811 | 967 | 585 | 512 | 326 | 483 | 491 |
| | 15 | 437 | 342 | 266 | 111 | 147 | 140 | 101 | 048 | 096 | 115 | 138 | 194 | 114 | 120 | 134 | 135 | 083 | 195 | 205 | 326 | 461 | 549 | 290 | 430 | 216 |
| | 16 | 331 | 077 | 079 | 096 | 076 | 053 | 036 | 087 | 034 | 068 | 106 | 431 | 267 | 594 | 685 | 812 | 340 | 337 | 302 | 411 | 464 | 426 | 596 | 449 | 298 |
| | 17 | 370 | 219 | 256 | 233 | 323 | 273 | 280 | 347 | 541 | 401 | 323 | 259 | 605 | 167 | 120 | 251 | 144 | 613 | 416 | 217 | 279 | 708 | 519 | 508 | 349 |
| | 18 | 427 | 327 | 182 | 207 | 424 | 274 | 152 | 136 | 093 | 276 | 512 | 262 | 111 | 248 | 605 | 207 | 156 | 124 | 095 | 324 | 351 | 137 | 180 | 095 | 246 |
| | 19 | 109 | 191 | 264 | 185 | 119 | 084 | 119 | 096 | 109 | 083 | 176 | 344 | 105 | 072 | 131 | 114 | 049 | 108 | 216 | 130 | 074 | 077 | 100 | 059 | 130 |
| | 20 | 080 | 372 | 237 | 126 | 115 | 099 | 081 | 114 | 072 | 051 | 038 | 031 | 042 | 033 | 043 | 042 | 085 | 244 | 383 | 418 | 344 | 260 | 301 | 231 | 160 |
| | 21 | 159 | 135 | 049 | 028 | 024 | 017 | 016 | 015 | 038 | 090 | 079 | 070 | 088 | 176 | 231 | 136 | 081 | 231 | 332 | 173 | 029 | 035 | 025 | 024 | 095 |
| | 22 | 013 | 025 | 018 | 039 | 038 | 053 | 077 | 061 | 028 | 026 | 032 | 044 | 069 | 056 | 204 | 220 | 221 | 636 | 289 | 063 | 055 | 185 | 265 | 197 | 121 |
| | 23 | 200 | 184 | 085 | 074 | 065 | 075 | 102 | 094 | 085 | 070 | 171 | 138 | 116 | 457 | 218 | 098 | 278 | 301 | 173 | 166 | 462 | 199 | 173 | 305 | 179 |
| | 24 | 237 | 191 | 244 | 394 | 208 | 051 | 019 | 022 | 072 | 078 | 193 | 282 | 093 | 038 | 021 | 041 | 231 | 305 | 113 | 055 | 168 | 098 | 033 | 023 | 134 |
| Q | 25 | 022 | 025 | 056 | 048 | 017 | 019 | 026 | 024 | 020 | 026 | 032 | 034 | 034 | 026 | 033 | 039 | 252 | 264 | 053 | 042 | 084 | 027 | 026 | 049 | 053 |
| Q | 26 | 169 | 325 | 125 | 031 | 017 | 022 | 036 | 026 | 137 | 062 | 051 | 082 | 127 | 191 | 084 | 069 | 123 | 036 | 069 | 076 | 028 | 052 | 037 | 031 | 084 |
| | 27 | 028 | 051 | 069 | 058 | 116 | 105 | 172 | 087 | 102 | 337 | 694 | 573 | 379 | 145 | 096 | 109 | 647 | 370 | 360 | 628 | 417 | 125 | 137 | 175 | 249 |
| | 28 | 225 | 607 | 307 | 197 | 121 | 068 | 082 | 163 | 208 | 106 | 120 | 158 | 291 | 306 | 228 | 083 | 106 | 058 | 148 | 070 | 116 | 121 | 064 | 061 | 167 |
| | 29 | 066 | 068 | 122 | 237 | 137 | 066 | 049 | 051 | 055 | 057 | 122 | 369 | 362 | 103 | 018 | 019 | 030 | 092 | 150 | 150 | 030 | 024 | 038 | 034 | 102 |
| | 30 | 069 | 060 | 051 | 047 | 033 | 086 | 168 | 198 | 068 | 156 | 089 | 064 | 048 | 058 | 057 | 087 | 045 | 040 | 111 | 225 | 251 | 349 | 259 | 185 | 117 |
| | 31 | 104 | 038 | 031 | 024 | 058 | 078 | 074 | 028 | 020 | 031 | 062 | 414 | 260 | 086 | 029 | 017 | 158 | 745 | 304 | 306 | 612 | 264 | 270 | 088 | 171 |
| | MEAN | 196 | 200 | 153 | 136 | 143 | 126 | 130 | 144 | 150 | 171 | 193 | 251 | 226 | 203 | 241 | 211 | 224 | 283 | 260 | 250 | 268 | 224 | 193 | 173 | 198 |
| 5Q | MEAN | 068 | 095 | 074 | 047 | 024 | 022 | 038 | 028 | 057 | 057 | 080 | 069 | 048 | 060 | 054 | 058 | 096 | 082 | 067 | 094 | 071 | 038 | 029 | 035 | 057 |
| 5D | MEAN | 403 | 417 | 298 | 262 | 295 | 298 | 282 | 387 | 339 | 360 | 318 | 509 | 406 | 473 | 704 | 497 | 511 | 517 | 500 | 475 | 370 | 334 | 264 | 268 | 395 |

FEBRUARY 1975 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | 171 | 204 | 302 | 446 | 602 | 566 | 301 | 190 | 361 | 326 | 486 | 995 | 803 | 691 | 572 | 309 | 525 | 855 | 886 | 315 | 342 | 344 | 352 | 485 | 476 |
| | 02 | 459 | 272 | 368 | 323 | 163 | 147 | 246 | 354 | 110 | 175 | 625 | 467 | 442 | 404 | 455 | 357 | 217 | 348 | 290 | 251 | 375 | 145 | 090 | 066 | 298 |
| | 03 | 095 | 101 | 153 | 291 | 343 | 239 | 229 | 128 | 085 | 081 | 062 | 121 | 076 | 310 | 272 | 186 | 128 | 156 | 232 | 138 | 035 | 044 | 051 | 055 | 150 |
| | 04 | 152 | 047 | 125 | 092 | 119 | 172 | 045 | 025 | 065 | 069 | 029 | 088 | 213 | 348 | 225 | 107 | 177 | 421 | 100 | 033 | 047 | 103 | 175 | 345 | 138 |
| | 05 | 296 | 147 | 233 | 221 | 085 | 085 | 150 | 154 | 199 | 174 | 209 | 482 | 651 | 332 | 080 | 143 | 420 | 743 | 287 | 146 | 222 | 277 | 188 | 135 | 252 |
| Q | 06 | 160 | 135 | 133 | 106 | 168 | 096 | 045 | 090 | 254 | 200 | 118 | 100 | 040 | 031 | 069 | 113 | 158 | 116 | 173 | 169 | 168 | 129 | 068 | 074 | 121 |
| | 07 | 134 | 080 | 240 | 162 | 149 | 252 | 290 | 189 | 133 | 428 | 364 | 361 | 449 | 360 | 228 | 163 | 539 | 779 | 561 | 174 | 234 | 261 | 309 | 232 | 295 |
| Q | 08 | 137 | 127 | 148 | 213 | 253 | 187 | 225 | 221 | 251 | 096 | 095 | 170 | 091 | 051 | 051 | 048 | 048 | 028 | 023 | 027 | 034 | 034 | 029 | 063 | 110 |
| | 09 | 105 | 359 | 399 | 233 | 205 | 190 | 148 | 055 | 034 | 032 | 022 | 020 | 015 | 022 | 018 | 065 | 156 | 199 | 129 | 129 | 097 | 175 | 242 | 397 | 144 |
| D | 10 | 452 | 443 | 152 | 216 | 477 | 580 | 496 | 459 | 379 | 204 | 089 | 212 | 430 | 253 | 589 | 453 | 427 | 761 | 237 | 116 | 173 | 954 | 609 | 372 | 397 |
| D | 11 | 405 | 868 | 724 | 315 | 254 | 231 | 300 | 247 | 121 | 118 | 290 | 393 | 388 | 248 | 296 | 725 | 574 | 800 | 657 | 522 | 545 | 948 | 522 | 450 | 456 |
| D | 12 | 380 | 480 | 334 | 318 | 222 | 330 | 551 | 474 | 713 | 339 | 583 | 772 | 402 | 536 | 418 | 184 | 811 | 959 | 536 | 325 | 608 | 652 | 440 | 385 | 490 |
| | 13 | 459 | 403 | 273 | 264 | 205 | 212 | 301 | 166 | 084 | 215 | 203 | 269 | 434 | 412 | 559 | 304 | 184 | 621 | 540 | 455 | 699 | 476 | 297 | 332 | 349 |
| | 14 | 574 | 307 | 345 | 162 | 186 | 225 | 088 | 128 | 437 | 298 | 096 | 570 | 385 | 104 | 076 | 289 | 742 | 403 | 382 | 523 | 521 | 331 | 319 | 414 | 329 |
| | 15 | 358 | 194 | 136 | 076 | 183 | 245 | 242 | 317 | 202 | 099 | 138 | 177 | 308 | 339 | 532 | 281 | 293 | 497 | 317 | 571 | 280 | 244 | 679 | 624 | 306 |
| | 16 | 386 | 323 | 195 | 150 | 135 | 132 | 236 | 444 | 151 | 177 | 416 | 594 | 331 | 160 | 342 | 635 | 737 | 860 | 926 | 386 | 151 | 205 | 315 | 546 | 372 |
| | 17 | 173 | 108 | 084 | 162 | 170 | 174 | 360 | 163 | 227 | 312 | 391 | 277 | 264 | 201 | 248 | 154 | 090 | 420 | 378 | 171 | 094 | 305 | 432 | 333 | 237 |
| | 18 | 345 | 414 | 356 | 224 | 209 | 344 | 397 | 207 | 074 | 059 | 069 | 076 | 288 | 356 | 223 | 276 | 204 | 129 | 242 | 274 | 452 | 494 | 299 | 204 | 259 |
| | 19 | 182 | 084 | 072 | 117 | 220 | 164 | 170 | 172 | 318 | 378 | 427 | 534 | 231 | 052 | 045 | 035 | 031 | 027 | 168 | 281 | 331 | 118 | 255 | 266 | 195 |
| Q | 20 | 244 | 063 | 058 | 094 | 072 | 051 | 026 | 073 | 248 | 330 | 178 | 038 | 035 | 024 | 020 | 020 | 020 | 018 | 029 | 134 | 241 | 146 | 185 | 204 | 106 |
| | 21 | 191 | 084 | 064 | 121 | 136 | 120 | 096 | 135 | 163 | 142 | 162 | 164 | 100 | 097 | 155 | 192 | 162 | 167 | 271 | 211 | 047 | 035 | 046 | 053 | 130 |
| Q | 22 | 063 | 153 | 233 | 141 | 059 | 041 | 032 | 027 | 039 | 092 | 098 | 166 | 112 | 173 | 245 | 297 | 202 | 290 | 227 | 098 | 048 | 095 | 102 | 090 | 130 |
| D | 23 | 131 | 281 | 221 | 067 | 107 | 102 | 292 | 150 | 171 | 376 | 499 | 1436 | 573 | 239 | 562 | 1003 | 865 | 524 | 190 | 074 | 044 | 070 | 100 | 312 | 350 |
| | 24 | 356 | 352 | 378 | 154 | 086 | 082 | 042 | 035 | 046 | 058 | 056 | 035 | 366 | 451 | 305 | 414 | 565 | 207 | 151 | 214 | 217 | 313 | 195 | 152 | 218 |
| | 25 | 156 | 192 | 348 | 246 | 268 | 594 | 466 | 186 | 323 | 280 | 240 | 322 | 479 | 614 | 256 | 171 | 286 | 106 | 115 | 063 | 078 | 174 | 161 | 226 | 265 |
| | 26 | 180 | 126 | 288 | 225 | 049 | 053 | 043 | 107 | 079 | 101 | 125 | 165 | 166 | 191 | 256 | 067 | 114 | 211 | 190 | 171 | 074 | 035 | 032 | 033 | 128 |
| Q | 27 | 035 | 026 | 029 | 024 | 057 | 169 | 171 | 087 | 040 | 036 | 032 | 026 | 029 | 030 | 081 | 158 | 045 | 026 | 028 | 032 | 039 | 039 | 054 | 052 | 056 |
| | 28 | 062 | 080 | 084 | 148 | 160 | 058 | 094 | 063 | 275 | 166 | 071 | 034 | 038 | 039 | 079 | 120 | 107 | 062 | 061 | 294 | 295 | 401 | 143 | 152 | 129 |
| | MEAN | 244 | 230 | 231 | 190 | 191 | 209 | 217 | 180 | 199 | 191 | 220 | 324 | 291 | 252 | 259 | 260 | 315 | 383 | 297 | 225 | 232 | 270 | 239 | 252 | 246 |
| 5Q | MEAN | 128 | 101 | 120 | 116 | 122 | 109 | 100 | 100 | 166 | 151 | 104 | 100 | 061 | 062 | 093 | 127 | 095 | 096 | 096 | 092 | 106 | 089 | 088 | 097 | 104 |
| 5D | MEAN | 308 | 455 | 347 | 272 | 332 | 362 | 388 | 304 | 349 | 273 | 389 | 762 | 519 | 393 | 487 | 535 | 640 | 780 | 501 | 270 | 342 | 594 | 405 | 401 | 433 |

MARCH 1975 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 109 | 378 | 359 | 195 | 129 | 158 | 258 | 822 | 575 | 272 | 411 | 240 | 077 | 136 | 077 | 080 | 403 | 616 | 552 | 573 | 542 | 367 | 155 | 074 | 315 |
| | 02 | 157 | 470 | 312 | 172 | 127 | 241 | 279 | 204 | 222 | 229 | 106 | 129 | 183 | 084 | 088 | 043 | 052 | 163 | 253 | 199 | 289 | 209 | 226 | 142 | 191 |
| | 03 | 255 | 194 | 058 | 055 | 093 | 177 | 079 | 037 | 028 | 048 | 047 | 032 | 103 | 144 | 108 | 178 | 283 | 310 | 242 | 086 | 205 | 348 | 293 | 210 | 151 |
| | 04 | 088 | 132 | 335 | 273 | 212 | 079 | 186 | 256 | 101 | 089 | 132 | 101 | 048 | 096 | 081 | 030 | 027 | 080 | 053 | 040 | 053 | 057 | 121 | 258 | 122 |
| | 05 | 131 | 152 | 295 | 532 | 433 | 503 | 506 | 351 | 457 | 562 | 1009 | 797 | 432 | 144 | 619 | 731 | 511 | 510 | 400 | 659 | 275 | 133 | 429 | 452 | 459 |
| | 06 | 174 | 102 | 101 | 163 | 214 | 280 | 270 | 562 | 593 | 776 | 488 | 468 | 636 | 296 | 536 | 609 | 764 | 999 | 488 | 120 | 263 | 493 | 188 | 061 | 402 |
| Q | 07 | 092 | 134 | 071 | 073 | 035 | 036 | 052 | 037 | 038 | 028 | 022 | 023 | 018 | 015 | 023 | 020 | 021 | 017 | 014 | 011 | 016 | 021 | 017 | 023 | 036 |
| Q | 08 | 025 | 017 | 015 | 017 | 017 | 016 | 014 | 012 | 011 | 012 | 013 | 018 | 023 | 020 | 022 | 025 | 023 | 018 | 011 | 017 | 041 | 027 | 026 | 026 | 019 |
| | 09 | 028 | 024 | 019 | 031 | 063 | 054 | 051 | 024 | 024 | 026 | 028 | 027 | 033 | 027 | 029 | 042 | 042 | 088 | 046 | 055 | 253 | 089 | 219 | 822 | 089 |
| D | 10 | 800 | 1042 | 864 | 367 | 414 | 345 | 620 | 646 | 596 | 900 | 629 | 833 | 845 | 978 | 774 | 986 | 885 | 770 | 952 | 1008 | 932 | 515 | 421 | 705 | 743 |
| D | 11 | 550 | 547 | 1274 | 1028 | 495 | 430 | 469 | 663 | 596 | 482 | 654 | 669 | 464 | 785 | 556 | 434 | 542 | 474 | 230 | 412 | 292 | 790 | 489 | 563 | 579 |
| D | 12 | 365 | 341 | 316 | 594 | 421 | 270 | 125 | 451 | 578 | 608 | 852 | 559 | 586 | 519 | 484 | 745 | 587 | 364 | 496 | 591 | 804 | 542 | 817 | 615 | 526 |
| | 13 | 342 | 322 | 387 | 218 | 147 | 113 | 166 | 183 | 287 | 378 | 279 | 423 | 275 | 566 | 589 | 432 | 403 | 723 | 1044 | 626 | 325 | 189 | 775 | 502 | 404 |
| | 14 | 168 | 120 | 119 | 196 | 155 | 443 | 510 | 453 | 309 | 116 | 247 | 466 | 349 | 794 | 679 | 363 | 452 | 472 | 313 | 521 | 516 | 331 | 877 | 386 | 390 |
| | 15 | 288 | 501 | 353 | 191 | 211 | 296 | 346 | 273 | 380 | 281 | 235 | 407 | 628 | 335 | 219 | 503 | 586 | 246 | 374 | 427 | 260 | 461 | 349 | 229 | 349 |
| | 16 | 157 | 201 | 240 | 271 | 200 | 273 | 337 | 254 | 661 | 804 | 460 | 496 | 677 | 604 | 212 | 453 | 602 | 296 | 091 | 062 | 080 | 076 | 087 | 269 | 328 |
| | 17 | 400 | 207 | 320 | 310 | 241 | 081 | 068 | 155 | 342 | 464 | 361 | 272 | 149 | 062 | 073 | 262 | 133 | 069 | 081 | 234 | 167 | 227 | 262 | 661 | 233 |
| | 18 | 563 | 363 | 163 | 060 | 129 | 122 | 258 | 171 | 288 | 305 | 144 | 385 | 420 | 245 | 288 | 466 | 863 | 456 | 578 | 590 | 468 | 461 | 295 | 136 | 342 |
| | 19 | 203 | 164 | 171 | 136 | 104 | 107 | 079 | 202 | 177 | 171 | 232 | 215 | 188 | 292 | 340 | 198 | 126 | 157 | 291 | 253 | 249 | 389 | 384 | 252 | 212 |
| | 20 | 174 | 064 | 061 | 082 | 090 | 340 | 372 | 410 | 330 | 244 | 223 | 411 | 459 | 578 | 554 | 499 | 250 | 560 | 377 | 267 | 268 | 276 | 426 | 221 | 314 |
| Q | 21 | 159 | 094 | 047 | 033 | 038 | 055 | 061 | 076 | 020 | 020 | 052 | 078 | 046 | 023 | 017 | 021 | 044 | 018 | 023 | 022 | 024 | 027 | 032 | 036 | 044 |
| Q | 22 | 036 | 034 | 026 | 020 | 027 | 028 | 029 | 037 | 026 | 033 | 039 | 028 | 025 | 029 | 026 | 024 | 028 | 037 | 031 | 025 | 021 | 022 | 046 | 202 | 037 |
| | 23 | 242 | 209 | 215 | 329 | 348 | 469 | 445 | 373 | 374 | 149 | 146 | 434 | 204 | 195 | 087 | 084 | 071 | 075 | 123 | 173 | 069 | 025 | 064 | 042 | 206 |
| | 24 | 051 | 031 | 043 | 038 | 051 | 061 | 053 | 044 | 108 | 221 | 533 | 653 | 611 | 428 | 618 | 703 | 341 | 470 | 132 | 103 | 273 | 156 | 077 | 035 | 243 |
| Q | 25 | 020 | 080 | 077 | 107 | 062 | 054 | 049 | 169 | 076 | 043 | 069 | 118 | 385 | 159 | 062 | 024 | 051 | 192 | 206 | 061 | 044 | 036 | 046 | 030 | 093 |
| | 26 | 035 | 029 | 053 | 234 | 198 | 094 | 054 | 082 | 094 | 197 | 437 | 703 | 541 | 274 | 169 | 158 | 105 | 125 | 233 | 397 | 406 | 147 | 059 | 176 | 208 |
| D | 27 | 242 | 266 | 282 | 207 | 153 | 159 | 105 | 178 | 268 | 304 | 448 | 413 | 685 | 703 | 1007 | 1204 | 1384 | 1186 | 861 | 487 | 215 | 165 | 211 | 416 | 481 |
| D | 28 | 218 | 134 | 160 | 138 | 361 | 393 | 382 | 650 | 681 | 298 | 542 | 841 | 584 | 874 | 490 | 617 | 508 | 348 | 572 | 672 | 482 | 424 | 598 | 141 | 463 |
| | 29 | 098 | 166 | 337 | 419 | 224 | 300 | 793 | 433 | 516 | 541 | 552 | 790 | 594 | 428 | 412 | 343 | 319 | 832 | 312 | 172 | 135 | 187 | 119 | 131 | 381 |
| | 30 | 346 | 174 | 172 | 211 | 096 | 082 | 112 | 210 | 173 | 140 | 178 | 360 | 238 | 110 | 113 | 045 | 056 | 039 | 136 | 125 | 195 | 297 | 144 | 336 | 170 |
| | 31 | 460 | 518 | 525 | 484 | 261 | 159 | 203 | 168 | 158 | 043 | 041 | 160 | 260 | 418 | 205 | 149 | 356 | 223 | 407 | 458 | 057 | 044 | 053 | 152 | 248 |
| | MEAN | 225 | 233 | 251 | 232 | 185 | 201 | 236 | 277 | 293 | 283 | 310 | 373 | 347 | 334 | 308 | 338 | 349 | 353 | 320 | 305 | 265 | 243 | 268 | 268 | 283 |
| 5Q | MEAN | 066 | 072 | 047 | 050 | 036 | 038 | 041 | 066 | 034 | 027 | 039 | 053 | 099 | 049 | 030 | 023 | 033 | 056 | 057 | 027 | 029 | 027 | 033 | 063 | 045 |
| 5D | MEAN | 435 | 466 | 579 | 467 | 369 | 319 | 340 | 518 | 544 | 518 | 625 | 663 | 633 | 772 | 662 | 797 | 781 | 628 | 622 | 634 | 545 | 487 | 507 | 488 | 558 |

APRIL 1975 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 183 | 126 | 040 | 032 | 054 | 034 | 104 | 331 | 277 | 208 | 164 | 137 | 086 | 061 | 117 | 061 | 137 | 234 | 071 | 060 | 059 | 082 | 072 | 054 | 116 |
| | 02 | 060 | 075 | 084 | 069 | 029 | 036 | 041 | 043 | 037 | 033 | 036 | 040 | 040 | 031 | 024 | 031 | 040 | 046 | 075 | 086 | 095 | 206 | 192 | 087 | 064 |
| | 03 | 195 | 290 | 201 | 155 | 043 | 039 | 047 | 120 | 144 | 070 | 056 | 053 | 042 | 034 | 105 | 148 | 085 | 031 | 065 | 093 | 212 | 238 | 086 | 074 | 109 |
| | 04 | 056 | 149 | 186 | 248 | 096 | 029 | 038 | 041 | 190 | 271 | 140 | 088 | 069 | 185 | 116 | 121 | 117 | 079 | 098 | 090 | 354 | 435 | 199 | 360 | 156 |
| | 05 | 332 | 241 | 101 | 090 | 038 | 031 | 041 | 147 | 183 | 135 | 054 | 073 | 033 | 030 | 020 | 039 | 089 | 419 | 494 | 210 | 192 | 314 | 318 | 182 | 159 |
| | 06 | 154 | 252 | 136 | 122 | 080 | 148 | 138 | 121 | 266 | 301 | 240 | 167 | 181 | 136 | 174 | 391 | 265 | 100 | 046 | 044 | 118 | 652 | 263 | 104 | 192 |
| | 07 | 136 | 112 | 064 | 048 | 085 | 067 | 122 | 086 | 047 | 057 | 073 | 493 | 729 | 183 | 043 | 083 | 076 | 199 | 768 | 668 | 597 | 687 | 462 | 517 | 267 |
| D | 08 | 339 | 296 | 311 | 341 | 163 | 267 | 373 | 407 | 340 | 625 | 433 | 263 | 715 | 565 | 907 | 884 | 700 | 727 | 602 | 808 | 390 | 097 | 062 | 091 | 446 |
| D | 09 | 338 | 617 | 858 | 786 | 817 | 677 | 624 | 523 | 477 | 553 | 650 | 459 | 543 | 571 | 523 | 547 | 533 | 1500 | 701 | 976 | 748 | 884 | 857 | 616 | 682 |
| D | 10 | 448 | 388 | 758 | 906 | 776 | 446 | 323 | 346 | 424 | 628 | 378 | 627 | 463 | 200 | 071 | 165 | 252 | 492 | 733 | 291 | 138 | 518 | 768 | 314 | 452 |
| D | 11 | 231 | 720 | 530 | 333 | 545 | 548 | 510 | 317 | 366 | 631 | 651 | 1042 | 991 | 332 | 315 | 624 | 414 | 290 | 429 | 308 | 165 | 225 | 438 | 443 | 475 |
| | 12 | 276 | 203 | 217 | 154 | 194 | 215 | 474 | 232 | 228 | 756 | 735 | 648 | 371 | 318 | 336 | 590 | 401 | 297 | 396 | 237 | 132 | 693 | 1045 | 675 | 409 |
| D | 13 | 817 | 753 | 450 | 303 | 355 | 251 | 349 | 861 | 347 | 126 | 199 | 157 | 230 | 226 | 452 | 120 | 074 | 068 | 146 | 388 | 366 | 455 | 647 | 581 | 363 |
| | 14 | 393 | 677 | 580 | 562 | 576 | 427 | 390 | 082 | 059 | 180 | 248 | 188 | 208 | 256 | 297 | 248 | 264 | 181 | 188 | 355 | 283 | 166 | 245 | 236 | 304 |
| | 15 | 117 | 137 | 160 | 062 | 107 | 102 | 046 | 053 | 092 | 088 | 133 | 234 | 136 | 108 | 209 | 224 | 205 | 385 | 260 | 157 | 214 | 158 | 145 | 198 | 155 |
| | 16 | 318 | 309 | 133 | 182 | 115 | 063 | 071 | 092 | 161 | 067 | 144 | 182 | 080 | 031 | 025 | 043 | 082 | 132 | 181 | 111 | 114 | 045 | 036 | 039 | 115 |
| Q | 17 | 045 | 066 | 114 | 070 | 036 | 046 | 040 | 040 | 061 | 216 | 168 | 084 | 108 | 059 | 029 | 045 | 182 | 258 | 073 | 029 | 023 | 029 | 030 | 035 | 079 |
| | 18 | 034 | 027 | 031 | 038 | 053 | 044 | 036 | 049 | 056 | 039 | 068 | 197 | 408 | 219 | 176 | 146 | 098 | 116 | 317 | 234 | 135 | 086 | 112 | 274 | 125 |
| Q | 19 | 269 | 159 | 114 | 065 | 169 | 198 | 099 | 054 | 101 | 217 | 181 | 128 | 294 | 146 | 156 | 079 | 050 | 054 | 032 | 028 | 049 | 030 | 037 | 046 | 115 |
| | 20 | 038 | 034 | 037 | 035 | 029 | 040 | 034 | 059 | 148 | 279 | 344 | 165 | 083 | 374 | 331 | 453 | 518 | 984 | 904 | 1117 | 1177 | 1065 | 712 | 510 | 395 |
| | 21 | 477 | 442 | 529 | 158 | 057 | 049 | 040 | 040 | 058 | 063 | 125 | 159 | 131 | 161 | 207 | 589 | 345 | 219 | 562 | 287 | 055 | 074 | 086 | 043 | 207 |
| | 22 | 188 | 300 | 132 | 064 | 164 | 430 | 404 | 318 | 239 | 090 | 089 | 046 | 048 | 199 | 231 | 121 | 104 | 223 | 426 | 290 | 302 | 271 | 591 | 259 | 230 |
| | 23 | 193 | 479 | 398 | 184 | 226 | 295 | 378 | 263 | 481 | 285 | 1045 | 342 | 215 | 140 | 112 | 334 | 809 | 355 | 371 | 240 | 439 | 448 | 307 | 254 | 358 |
| | 24 | 594 | 427 | 311 | 318 | 204 | 171 | 290 | 416 | 145 | 179 | 693 | 220 | 133 | 080 | 144 | 179 | 276 | 293 | 235 | 265 | 478 | 316 | 249 | 228 | 285 |
| | 25 | 179 | 191 | 072 | 131 | 273 | 131 | 075 | 081 | 170 | 207 | 100 | 040 | 061 | 108 | 219 | 181 | 159 | 092 | 075 | 049 | 039 | 052 | 054 | 216 | 123 |
| | 26 | 582 | 315 | 098 | 095 | 056 | 040 | 040 | 039 | 049 | 084 | 106 | 195 | 155 | 081 | 093 | 096 | 099 | 221 | 323 | 130 | 142 | 196 | 159 | 071 | 144 |
| Q | 27 | 081 | 044 | 071 | 208 | 415 | 193 | 071 | 040 | 041 | 059 | 177 | 088 | 086 | 052 | 056 | 053 | 037 | 040 | 048 | 045 | 044 | 049 | 056 | 070 | 089 |
| Q | 28 | 064 | 185 | 098 | 049 | 041 | 047 | 052 | 061 | 047 | 041 | 039 | 032 | 031 | 024 | 016 | 015 | 031 | 025 | 045 | 051 | 038 | 047 | 074 | 052 | 050 |
| Q | 29 | 048 | 051 | 036 | 035 | 040 | 044 | 048 | 045 | 053 | 063 | 166 | 065 | 049 | 030 | 017 | 022 | 029 | 055 | 078 | 037 | 032 | 031 | 037 | 047 | 048 |
| | 30 | 043 | 042 | 045 | 045 | 055 | 049 | 094 | 105 | 349 | 308 | 189 | 066 | 049 | 037 | 087 | 121 | 074 | 057 | 042 | 069 | 082 | 086 | 212 | 165 | 103 |
| | MEAN | 241 | 270 | 230 | 196 | 196 | 172 | 180 | 180 | 188 | 229 | 261 | 223 | 226 | 166 | 187 | 225 | 218 | 272 | 293 | 258 | 240 | 288 | 285 | 228 | 227 |
| 5Q | MEAN | 101 | 101 | 087 | 085 | 140 | 106 | 062 | 048 | 061 | 119 | 146 | 079 | 114 | 062 | 055 | 043 | 066 | 086 | 055 | 038 | 037 | 037 | 047 | 050 | 076 |
| 5D | MEAN | 435 | 555 | 581 | 534 | 531 | 438 | 436 | 491 | 391 | 513 | 462 | 510 | 588 | 379 | 454 | 468 | 395 | 615 | 522 | 554 | 361 | 436 | 554 | 409 | 483 |

MAY 1975 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 064 | 043 | 039 | 033 | 064 | 091 | 106 | 136 | 222 | 196 | 112 | 085 | 113 | 195 | 294 | 238 | 162 | 176 | 277 | 291 | 168 | 166 | 097 | 170 | 147 |
| | 02 | 265 | 185 | 142 | 176 | 194 | 311 | 197 | 427 | 443 | 500 | 198 | 171 | 342 | 483 | 459 | 449 | 513 | 436 | 518 | 564 | 557 | 240 | 535 | 586 | 370 |
| | 03 | 479 | 477 | 610 | 840 | 708 | 505 | 557 | 433 | 201 | 142 | 181 | 555 | 515 | 700 | 529 | 187 | 065 | 120 | 162 | 274 | 267 | 222 | 289 | 489 | 396 |
| | 04 | 441 | 262 | 282 | 130 | 140 | 443 | 277 | 350 | 292 | 156 | 187 | 177 | 313 | 185 | 055 | 085 | 086 | 156 | 333 | 237 | 217 | 382 | 583 | 657 | 268 |
| D | 05 | 700 | 566 | 609 | 622 | 523 | 236 | 223 | 796 | 505 | 533 | 512 | 309 | 217 | 236 | 273 | 168 | 077 | 462 | 751 | 552 | 734 | 785 | 741 | 612 | 489 |
| D | 06 | 826 | 500 | 562 | 987 | 735 | 301 | 292 | 571 | 661 | 630 | 309 | 361 | 347 | 286 | 347 | 267 | 609 | 377 | 438 | 418 | 396 | 663 | 446 | 393 | 488 |
| D | 07 | 338 | 309 | 217 | 146 | 102 | 117 | 106 | 350 | 356 | 265 | 422 | 460 | 490 | 419 | 915 | 884 | 499 | 220 | 514 | 249 | 101 | 138 | 439 | 330 | 349 |
| | 08 | 364 | 229 | 390 | 223 | 312 | 234 | 410 | 261 | 280 | 228 | 191 | 233 | 266 | 149 | 093 | 127 | 158 | 241 | 329 | 478 | 572 | 575 | 490 | 348 | 299 |
| | 09 | 270 | 399 | 518 | 210 | 106 | 065 | 246 | 366 | 198 | 285 | 447 | 189 | 227 | 360 | 347 | 426 | 200 | 162 | 332 | 419 | 295 | 362 | 386 | 815 | 318 |
| | 10 | 423 | 373 | 685 | 1008 | 668 | 442 | 510 | 445 | 489 | 294 | 203 | 204 | 562 | 307 | 205 | 219 | 138 | 172 | 164 | 252 | 360 | 399 | 250 | 071 | 368 |
| Q | 11 | 050 | 050 | 057 | 081 | 070 | 072 | 064 | 036 | 037 | 073 | 063 | 037 | 041 | 046 | 026 | 039 | 055 | 034 | 051 | 064 | 058 | 033 | 027 | 027 | 050 |
| Q | 12 | 028 | 030 | 040 | 050 | 064 | 105 | 086 | 073 | 049 | 050 | 049 | 039 | 031 | 023 | 023 | 031 | 040 | 045 | 035 | 038 | 046 | 040 | 039 | 040 | 046 |
| | 13 | 038 | 043 | 051 | 081 | 062 | 043 | 057 | 049 | 056 | 117 | 150 | 199 | 059 | 048 | 033 | 026 | 026 | 050 | 069 | 293 | 329 | 459 | 531 | 458 | 139 |
| | 14 | 423 | 313 | 467 | 567 | 445 | 425 | 357 | 327 | 220 | 325 | 614 | 693 | 500 | 279 | 186 | 167 | 140 | 154 | 155 | 272 | 224 | 289 | 190 | 073 | 325 |
| Q | 15 | 047 | 056 | 097 | 090 | 072 | 152 | 235 | 143 | 074 | 063 | 056 | 038 | 049 | 066 | 078 | 135 | 077 | 084 | 075 | 045 | 046 | 032 | 032 | 038 | 078 |
| D | 16 | 041 | 053 | 068 | 206 | 395 | 296 | 371 | 999 | 762 | 430 | 156 | 159 | 798 | 476 | 251 | 156 | 158 | 330 | 239 | 125 | 089 | 155 | 515 | 468 | 321 |
| | 17 | 346 | 190 | 157 | 160 | 345 | 447 | 322 | 108 | 503 | 592 | 370 | 214 | 234 | 585 | 286 | 135 | 189 | 265 | 099 | 078 | 045 | 045 | 049 | 060 | 243 |
| | 18 | 106 | 120 | 157 | 292 | 331 | 269 | 224 | 239 | 283 | 191 | 217 | 115 | 176 | 197 | 200 | 120 | 075 | 088 | 147 | 316 | 101 | 183 | 203 | 242 | 191 |
| | 19 | 337 | 522 | 485 | 388 | 232 | 510 | 280 | 311 | 325 | 269 | 172 | 044 | 041 | 030 | 042 | 035 | 041 | 041 | 040 | 106 | 315 | 324 | 108 | 073 | 211 |
| D | 20 | 118 | 293 | 247 | 472 | 384 | 376 | 769 | 464 | 650 | 975 | 181 | 082 | 113 | 052 | 126 | 224 | 353 | 133 | 086 | 073 | 041 | 041 | 073 | 081 | 267 |
| | 21 | 092 | 229 | 272 | 197 | 186 | 304 | 110 | 123 | 210 | 174 | 122 | 374 | 339 | 381 | 154 | 072 | 051 | 066 | 069 | 271 | 395 | 344 | 169 | 144 | 202 |
| | 22 | 167 | 146 | 053 | 032 | 132 | 329 | 249 | 387 | 317 | 353 | 572 | 346 | 266 | 344 | 351 | 129 | 088 | 231 | 192 | 093 | 087 | 080 | 261 | 372 | 232 |
| | 23 | 114 | 053 | 037 | 034 | 052 | 268 | 378 | 237 | 153 | 353 | 258 | 277 | 091 | 036 | 035 | 084 | 062 | 133 | 291 | 355 | 180 | 062 | 055 | 077 | 153 |
| | 24 | 091 | 061 | 083 | 063 | 062 | 055 | 172 | 203 | 080 | 110 | 149 | 211 | 089 | 045 | 057 | 043 | 065 | 077 | 064 | 062 | 055 | 093 | 236 | 230 | 102 |
| | 25 | 188 | 268 | 280 | 239 | 076 | 080 | 073 | 065 | 079 | 173 | 193 | 125 | 144 | 151 | 193 | 200 | 161 | 365 | 629 | 728 | 817 | 879 | 720 | 670 | 312 |
| | 26 | 626 | 564 | 709 | 501 | 695 | 554 | 396 | 499 | 446 | 208 | 285 | 363 | 100 | 038 | 036 | 042 | 072 | 061 | 069 | 047 | 063 | 054 | 045 | 042 | 271 |
| | 27 | 045 | 053 | 055 | 056 | 091 | 149 | 137 | 247 | 147 | 139 | 228 | 210 | 244 | 233 | 231 | 172 | 166 | 176 | 254 | 279 | 326 | 191 | 103 | 078 | 167 |
| Q | 28 | 094 | 081 | 118 | 151 | 113 | 085 | 032 | 029 | 051 | 045 | 059 | 052 | 041 | 034 | 024 | 083 | 073 | 057 | 148 | 089 | 044 | 050 | 051 | 049 | 069 |
| | 29 | 061 | 240 | 299 | 310 | 180 | 153 | 450 | 568 | 442 | 478 | 233 | 067 | 055 | 047 | 037 | 146 | 321 | 657 | 331 | 270 | 378 | 391 | 119 | 135 | 265 |
| | 30 | 252 | 099 | 059 | 038 | 046 | 234 | 389 | 291 | 208 | 193 | 129 | 150 | 190 | 213 | 266 | 114 | 053 | 043 | 078 | 066 | 082 | 113 | 184 | 160 | 151 |
| Q | 31 | 099 | 115 | 086 | 074 | 036 | 034 | 045 | 031 | 035 | 036 | 046 | 046 | 050 | 094 | 137 | 123 | 066 | 090 | 123 | 165 | 172 | 158 | 154 | 103 | 088 |
| | MEAN | 243 | 223 | 256 | 273 | 246 | 248 | 261 | 309 | 283 | 277 | 228 | 212 | 227 | 217 | 203 | 172 | 156 | 184 | 228 | 244 | 244 | 256 | 262 | 261 | 238 |
| 5Q | MEAN | 064 | 066 | 080 | 089 | 071 | 090 | 092 | 062 | 049 | 053 | 055 | 042 | 042 | 053 | 058 | 082 | 062 | 062 | 086 | 080 | 073 | 063 | 061 | 051 | 066 |
| 5D | MEAN | 405 | 344 | 341 | 487 | 428 | 265 | 352 | 636 | 587 | 567 | 316 | 274 | 393 | 294 | 382 | 340 | 339 | 304 | 406 | 283 | 272 | 356 | 443 | 377 | 382 |

JUNE 1975 AE INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | 314 | 215 | 114 | 086 | 046 | 098 | 178 | 138 | 137 | 139 | 229 | 261 | 397 | 541 | 303 | 373 | 397 | 299 | 602 | 289 | 166 | 314 | 260 | 487 | 266 |
| D | 02 | 597 | 502 | 503 | 518 | 940 | 579 | 179 | 490 | 839 | 632 | 149 | 169 | 173 | 386 | 440 | 441 | 561 | 387 | 240 | 283 | 332 | 581 | 297 | 242 | 436 |
| | 03 | 272 | 233 | 231 | 121 | 132 | 243 | 368 | 422 | 448 | 323 | 274 | 268 | 506 | 533 | 307 | 150 | 179 | 106 | 195 | 346 | 233 | 197 | 222 | 442 | 281 |
| | 04 | 336 | 365 | 467 | 213 | 271 | 458 | 383 | 374 | 298 | 219 | 195 | 198 | 161 | 097 | 248 | 228 | 299 | 235 | 130 | 148 | 272 | 361 | 203 | 289 | 269 |
| | 05 | 500 | 341 | 185 | 197 | 278 | 104 | 055 | 216 | 140 | 082 | 091 | 268 | 098 | 214 | 255 | 327 | 223 | 383 | 550 | 235 | 216 | 345 | 309 | 151 | 240 |
| | 06 | 197 | 333 | 512 | 459 | 331 | 350 | 207 | 156 | 314 | 209 | 101 | 088 | 103 | 122 | 365 | 373 | 263 | 309 | 425 | 193 | 077 | 133 | 175 | 213 | 250 |
| | 07 | 294 | 173 | 096 | 145 | 199 | 206 | 314 | 339 | 448 | 156 | 114 | 098 | 048 | 048 | 042 | 075 | 065 | 047 | 059 | 081 | 266 | 378 | 121 | 079 | 162 |
| Q | 08 | 075 | 076 | 077 | 062 | 067 | 078 | 162 | 137 | 115 | 122 | 147 | 129 | 119 | 223 | 249 | 161 | 048 | 046 | 033 | 038 | 077 | 110 | 168 | 155 | 111 |
| | 09 | 078 | 083 | 192 | 402 | 176 | 072 | 054 | 096 | 079 | 175 | 188 | 112 | 112 | 069 | 058 | 029 | 059 | 078 | 070 | 047 | 044 | 078 | 073 | 062 | 104 |
| Q | 10 | 086 | 188 | 144 | 138 | 106 | 065 | 061 | 082 | 138 | 152 | 140 | 177 | 217 | 206 | 226 | 223 | 178 | 156 | 115 | 112 | 135 | 127 | 190 | 228 | 150 |
| | 11 | 314 | 279 | 221 | 163 | 223 | 440 | 545 | 519 | 535 | 749 | 602 | 465 | 241 | 158 | 124 | 092 | 057 | 075 | 213 | 094 | 150 | 145 | 195 | 173 | 282 |
| D | 12 | 172 | 308 | 311 | 468 | 203 | 072 | 142 | 328 | 260 | 287 | 572 | 487 | 672 | 521 | 225 | 103 | 241 | 807 | 572 | 449 | 187 | 385 | 417 | 215 | 350 |
| | 13 | 213 | 519 | 252 | 127 | 332 | 571 | 294 | 167 | 317 | 307 | 300 | 421 | 532 | 476 | 416 | 149 | 081 | 207 | 458 | 436 | 220 | 193 | 180 | 175 | 306 |
| | 14 | 127 | 112 | 136 | 130 | 133 | 190 | 416 | 472 | 361 | 401 | 295 | 217 | 311 | 375 | 235 | 158 | 135 | 131 | 341 | 274 | 133 | 063 | 054 | 081 | 220 |
| | 15 | 074 | 136 | 192 | 132 | 149 | 321 | 286 | 335 | 376 | 664 | 348 | 129 | 051 | 086 | 190 | 529 | 607 | 560 | 493 | 100 | 232 | 441 | 487 | 326 | 302 |
| | 16 | 526 | 337 | 379 | 491 | 373 | 289 | 457 | 343 | 398 | 635 | 827 | 565 | 240 | 304 | 482 | 579 | 302 | 442 | 382 | 197 | 143 | 243 | 516 | 213 | 403 |
| | 17 | 129 | 148 | 171 | 143 | 069 | 074 | 242 | 199 | 328 | 553 | 370 | 224 | 500 | 171 | 198 | 197 | 360 | 135 | 193 | 258 | 297 | 419 | 350 | 411 | 256 |
| | 18 | 561 | 463 | 440 | 366 | 579 | 553 | 451 | 159 | 046 | 086 | 125 | 153 | 250 | 177 | 304 | 431 | 230 | 166 | 279 | 168 | 248 | 112 | 067 | 149 | 273 |
| | 19 | 271 | 301 | 250 | 179 | 134 | 187 | 418 | 492 | 466 | 414 | 334 | 364 | 540 | 282 | 210 | 230 | 146 | 160 | 277 | 371 | 154 | 171 | 339 | 269 | 290 |
| | 20 | 098 | 150 | 175 | 099 | 043 | 057 | 097 | 102 | 160 | 123 | 118 | 193 | 267 | 117 | 072 | 064 | 071 | 080 | 090 | 227 | 277 | 219 | 146 | 120 | 132 |
| | 21 | 102 | 079 | 406 | 483 | 167 | 055 | 050 | 144 | 395 | 484 | 307 | 151 | 177 | 145 | 118 | 152 | 236 | 524 | 435 | 170 | 213 | 443 | 304 | 407 | 256 |
| | 22 | 218 | 196 | 140 | 137 | 176 | 156 | 139 | 191 | 371 | 315 | 289 | 268 | 191 | 166 | 090 | 051 | 043 | 040 | 050 | 096 | 162 | 127 | 056 | 090 | 157 |
| Q | 23 | 095 | 052 | 064 | 072 | 160 | 156 | 087 | 055 | 042 | 037 | 041 | 078 | 128 | 102 | 059 | 068 | 106 | 048 | 091 | 101 | 048 | 120 | 138 | 081 | 085 |
| Q | 24 | 057 | 068 | 149 | 049 | 027 | 026 | 045 | 073 | 091 | 131 | 129 | 085 | 047 | 040 | 035 | 030 | 025 | 037 | 050 | 056 | 052 | 054 | 061 | 057 | 061 |
| | 25 | 069 | 065 | 059 | 049 | 056 | 062 | 060 | 077 | 092 | 073 | 073 | 127 | 102 | 159 | 180 | 239 | 247 | 124 | 127 | 232 | 296 | 345 | 384 | 335 | 151 |
| | 26 | 335 | 374 | 335 | 199 | 413 | 168 | 134 | 131 | 229 | 180 | 082 | 157 | 285 | 178 | 075 | 092 | 117 | 055 | 054 | 081 | 106 | 061 | 063 | 055 | 165 |
| Q | 27 | 060 | 071 | 068 | 074 | 088 | 137 | 104 | 057 | 053 | 063 | 056 | 055 | 054 | 048 | 049 | 087 | 060 | 083 | 077 | 056 | 068 | 106 | 137 | 140 | 077 |
| | 28 | 147 | 093 | 042 | 039 | 036 | 038 | 153 | 340 | 204 | 161 | 141 | 157 | 298 | 176 | 125 | 095 | 049 | 042 | 043 | 045 | 045 | 046 | 081 | 078 | 111 |
| D | 29 | 087 | 085 | 175 | 138 | 109 | 189 | 330 | 095 | 106 | 084 | 089 | 080 | 076 | 126 | 309 | 519 | 792 | 425 | 227 | 640 | 942 | 675 | 357 | 448 | 296 |
| D | 30 | 555 | 675 | 626 | 417 | 451 | 225 | 196 | 514 | 452 | 297 | 563 | 379 | 257 | 127 | 131 | 172 | 282 | 292 | 429 | 304 | 237 | 441 | 589 | 335 | 373 |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MEAN | 232 | 234 | 237 | 210 | 216 | 207 | 220 | 241 | 275 | 275 | 243 | 217 | 238 | 212 | 204 | 214 | 215 | 216 | 243 | 204 | 201 | 248 | 231 | 217 | 227 |
| 5Q | MEAN | 075 | 091 | 100 | 079 | 090 | 092 | 092 | 081 | 088 | 101 | 103 | 105 | 113 | 124 | 124 | 114 | 083 | 074 | 073 | 073 | 076 | 103 | 139 | 132 | 096 |
| 5D | MEAN | 345 | 357 | 346 | 325 | 350 | 233 | 205 | 313 | 359 | 288 | 320 | 275 | 315 | 340 | 282 | 322 | 455 | 442 | 414 | 393 | 373 | 479 | 384 | 345 | 344 |

4. TABLES OF HOURLY AVERAGE AL INDICES

JANUARY 1975 AL INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -133 | -048 | -009 | -093 | -087 | -025 | -010 | -031 | -042 | -082 | -038 | -020 | -014 | -041 | -070 | -060 | -120 | -041 | -017 | -030 | -019 | -018 | -023 | -027 | -046 |
| Q | 02 | -021 | -029 | -035 | -016 | -005 | -001 | -004 | -007 | -009 | -016 | -029 | -013 | -007 | -024 | -077 | -081 | -021 | -019 | -068 | -161 | -084 | -011 | -005 | -004 | -031 |
| | 03 | -014 | -004 | -002 | -002 | -002 | -002 | -003 | -007 | -060 | -183 | -096 | -053 | -115 | -175 | -103 | -091 | -039 | -149 | -234 | -114 | -090 | -092 | -021 | -138 | -075 |
| D | 04 | -251 | -214 | -142 | -172 | -248 | -243 | -243 | -221 | -104 | -140 | -187 | -579 | -301 | -505 | -957 | -718 | -711 | -252 | -083 | -070 | -162 | -486 | -341 | -276 | -317 |
| | 05 | -122 | -164 | -236 | -108 | -137 | -193 | -223 | -350 | -309 | -272 | -223 | -360 | -540 | -107 | -102 | -379 | -445 | -384 | -273 | -238 | -519 | -344 | -136 | -080 | -260 |
| | 06 | -217 | -101 | -037 | -086 | -148 | -037 | -034 | -023 | -101 | -047 | -116 | -340 | -439 | -196 | -128 | -346 | -235 | -291 | -658 | -535 | -794 | -503 | -609 | -448 | -270 |
| D | 07 | -851 | -837 | -462 | -274 | -117 | -041 | -247 | -211 | -086 | -155 | -245 | -283 | -286 | -071 | -045 | -034 | -091 | -098 | -025 | -029 | -034 | -016 | -012 | -024 | -191 |
| D | 08 | -010 | -016 | -059 | -132 | -252 | -335 | -134 | -223 | -375 | -191 | -216 | -386 | -279 | -245 | -538 | -539 | -479 | -435 | -394 | -619 | -303 | -053 | -066 | -069 | -265 |
| | 09 | -040 | -043 | -022 | -066 | -135 | -181 | -111 | -070 | -164 | -237 | -130 | -114 | -171 | -068 | -109 | -114 | -114 | -206 | -086 | -014 | -023 | -075 | -044 | -013 | -098 |
| | 10 | -024 | -079 | -066 | -015 | -022 | -067 | -148 | -031 | -044 | -065 | -176 | -016 | -021 | -008 | -008 | -015 | -017 | -014 | -012 | -018 | -040 | -024 | -019 | -021 | -040 |
| Q | 11 | -048 | -020 | -042 | -043 | -018 | -019 | -077 | -037 | -061 | -104 | -176 | -094 | -015 | -007 | -008 | -026 | -020 | -027 | -036 | -042 | -034 | -009 | -005 | -017 | -041 |
| Q | 12 | -039 | -028 | -048 | -040 | -018 | -003 | -010 | -004 | -002 | 000 | -002 | -009 | -010 | -009 | -011 | -013 | -012 | -009 | -059 | -080 | -041 | -001 | -003 | -005 | -019 |
| D | 13 | -026 | -349 | -198 | -090 | -215 | -215 | -101 | -134 | -190 | -258 | -086 | -187 | -078 | -361 | -377 | -082 | -048 | -417 | -652 | -284 | -412 | -213 | -251 | -166 | -225 |
| D | 14 | -130 | -082 | -291 | -333 | -223 | -153 | -072 | -224 | -145 | -193 | -181 | -263 | -387 | -546 | -740 | -398 | -483 | -611 | -612 | -781 | -439 | -403 | -237 | -378 | -346 |
| | 15 | -365 | -233 | -146 | -024 | -079 | -039 | -010 | -007 | -037 | -042 | -049 | -120 | -039 | -039 | -077 | -053 | -026 | -077 | -067 | -184 | -380 | -433 | -156 | -343 | -126 |
| | 16 | -218 | -026 | -030 | -048 | -022 | -007 | 004 | -019 | -004 | -021 | -047 | -338 | -206 | -484 | -509 | -534 | -172 | -162 | -197 | -271 | -328 | -250 | -443 | -317 | -194 |
| | 17 | -216 | -074 | -127 | -158 | -233 | -149 | -180 | -223 | -387 | -287 | -240 | -162 | -483 | -076 | -062 | -172 | -075 | -448 | -332 | -148 | -202 | -529 | -398 | -386 | -239 |
| | 18 | -338 | -162 | -060 | -102 | -289 | -197 | -074 | -082 | -036 | -187 | -410 | -180 | -040 | -180 | -489 | -106 | -098 | -060 | -067 | -226 | -236 | -073 | -123 | -048 | -161 |
| | 19 | -069 | -132 | -195 | -107 | -066 | -017 | -063 | -046 | -021 | -015 | -102 | -233 | -014 | -023 | -090 | -056 | -017 | -082 | -185 | -097 | -043 | -046 | -065 | -012 | -075 |
| | 20 | -037 | -309 | -170 | -060 | -063 | -031 | -041 | -064 | -020 | -022 | -011 | -004 | -006 | -008 | -010 | -010 | -063 | -215 | -321 | -325 | -265 | -125 | -201 | -090 | -103 |
| | 21 | -057 | -037 | -002 | -004 | -004 | -003 | -005 | -002 | -024 | -063 | -040 | -041 | -042 | -112 | -151 | -068 | -048 | -181 | -292 | -127 | -007 | -011 | -009 | -009 | -056 |
| | 22 | -005 | -010 | -003 | -017 | -020 | -040 | -063 | -043 | -001 | -006 | -007 | -008 | -019 | -020 | -134 | -077 | -143 | -454 | -157 | -034 | -018 | -101 | -203 | -101 | -070 |
| | 23 | -070 | -023 | 003 | -016 | -021 | -035 | -071 | -064 | -047 | -028 | -101 | -087 | -066 | -321 | -108 | -040 | -220 | -234 | -127 | -106 | -374 | -116 | -099 | -212 | -108 |
| | 24 | -149 | -110 | -207 | -372 | -143 | -013 | 003 | -003 | -014 | -019 | -132 | -229 | -050 | -013 | -006 | -014 | -197 | -252 | -084 | -040 | -134 | -085 | -009 | -004 | -095 |
| Q | 25 | -005 | -006 | -037 | -027 | -002 | -005 | -014 | -014 | -005 | -009 | -010 | -008 | -003 | -001 | -003 | -009 | -216 | -231 | -026 | -016 | -057 | -008 | -004 | -023 | -031 |
| Q | 26 | -104 | -219 | -023 | 006 | 003 | 001 | -010 | -007 | -113 | -031 | -020 | -053 | -073 | -119 | -039 | -026 | -089 | -014 | -051 | -055 | -002 | -023 | -011 | -002 | -045 |
| | 27 | -004 | -015 | -032 | -017 | -081 | -071 | -150 | -027 | -031 | -205 | -371 | -260 | -149 | -029 | -041 | -049 | -426 | -260 | -216 | -458 | -210 | -017 | -047 | -083 | -135 |
| | 28 | -172 | -447 | -172 | -065 | -012 | -025 | -040 | -111 | -159 | -057 | -046 | -087 | -193 | -141 | -089 | -013 | -087 | -044 | -115 | -039 | -058 | -061 | -015 | -008 | -094 |
| | 29 | -011 | -012 | -052 | -133 | -038 | -003 | 000 | -002 | -003 | -003 | -070 | -266 | -239 | -052 | -005 | -005 | -007 | -047 | -096 | -118 | -009 | -002 | -015 | -010 | -050 |
| | 30 | -034 | -027 | -013 | 002 | -004 | -070 | -149 | -155 | -033 | -063 | -023 | -008 | -003 | -018 | -017 | -051 | -012 | -015 | -081 | -192 | -187 | -274 | -199 | -122 | -073 |
| | 31 | -046 | -010 | -007 | -003 | -037 | -069 | -060 | 000 | -001 | -003 | -021 | -316 | -186 | -045 | -010 | -003 | -075 | -519 | -175 | -195 | -502 | -146 | -171 | -051 | -110 |
| | MEAN | -123 | -125 | -094 | -084 | -088 | -074 | -075 | -079 | -085 | -097 | -116 | -165 | -144 | -130 | -165 | -135 | -155 | -202 | -187 | -182 | -194 | -147 | -127 | -112 | -129 |
| 5Q | MEAN | -043 | -060 | -037 | -024 | -008 | -005 | -023 | -014 | -038 | -032 | -047 | -035 | -022 | -032 | -028 | -031 | -072 | -060 | -048 | -071 | -044 | -010 | -006 | -010 | -033 |
| 5D | MEAN | -254 | -300 | -230 | -200 | -211 | -197 | -159 | -203 | -180 | -187 | -183 | -340 | -266 | -346 | -531 | -354 | -362 | -363 | -353 | -357 | -270 | -234 | -181 | -183 | -268 |

FEBRUARY 1975 AL INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | -064 | -125 | -230 | -366 | -439 | -375 | -147 | -107 | -256 | -203 | -334 | -891 | -679 | -511 | -410 | -206 | -413 | -697 | -701 | -231 | -239 | -277 | -264 | -370 | -356 |
| | 02 | -343 | -197 | -290 | -243 | -051 | -091 | -155 | -225 | -017 | -086 | -448 | -331 | -337 | -305 | -370 | -277 | -158 | -282 | -232 | -174 | -300 | -089 | -050 | -031 | -212 |
| | 03 | -055 | -064 | -097 | -247 | -235 | -116 | -148 | -066 | -015 | -028 | -014 | -081 | -050 | -225 | -175 | -114 | -084 | -117 | -188 | -105 | -012 | -015 | -020 | -025 | -096 |
| | 04 | -123 | -024 | -095 | -058 | -083 | -151 | -005 | 000 | -042 | -046 | -010 | -041 | -169 | -277 | -157 | -073 | -143 | -374 | -058 | -003 | -018 | -033 | -104 | -272 | -098 |
| | 05 | -211 | -086 | -157 | -157 | -033 | -039 | -113 | -120 | -138 | -121 | -138 | -398 | -518 | -221 | -037 | -091 | -333 | -587 | -211 | -087 | -132 | -222 | -100 | -081 | -180 |
| Q | 06 | -112 | -095 | -086 | -061 | -120 | -021 | -002 | -066 | -204 | -158 | -069 | -053 | -009 | -002 | -029 | -065 | -067 | -069 | -130 | -108 | -101 | -086 | -026 | -030 | -074 |
| | 07 | -097 | -037 | -192 | -107 | -096 | -199 | -174 | -086 | -044 | -281 | -280 | -247 | -284 | -257 | -167 | -114 | -447 | -594 | -388 | -089 | -119 | -173 | -182 | -150 | -200 |
| Q | 08 | -079 | -064 | -078 | -167 | -190 | -125 | -168 | -128 | -156 | -047 | -063 | -151 | -075 | -035 | -032 | -038 | -023 | -011 | -004 | -006 | -010 | -014 | -003 | -017 | -070 |
| | 09 | -041 | -282 | -285 | -083 | -104 | -131 | -104 | -014 | -003 | -003 | -004 | -006 | -005 | -008 | -003 | -032 | -116 | -146 | -058 | -070 | -013 | -081 | -155 | -308 | -086 |
| D | 10 | -205 | -241 | -067 | -149 | -274 | -358 | -300 | -253 | -117 | -029 | 000 | -094 | -301 | -145 | -488 | -344 | -311 | -592 | -134 | -050 | -090 | -829 | -453 | -245 | -253 |
| D | 11 | -243 | -705 | -507 | -195 | -202 | -130 | -151 | -092 | -039 | -038 | -166 | -253 | -282 | -140 | -232 | -479 | -410 | -553 | -511 | -387 | -400 | -783 | -429 | -315 | -318 |
| D | 12 | -252 | -372 | -213 | -231 | -127 | -159 | -341 | -277 | -394 | -139 | -379 | -551 | -277 | -417 | -330 | -092 | -644 | -792 | -329 | -165 | -426 | -480 | -295 | -262 | -331 |
| | 13 | -344 | -337 | -198 | -172 | -133 | -105 | -207 | -076 | -011 | -114 | -094 | -167 | -339 | -312 | -437 | -204 | -121 | -483 | -437 | -322 | -545 | -368 | -184 | -224 | -247 |
| | 14 | -435 | -210 | -207 | -059 | -114 | -134 | -026 | -054 | -312 | -200 | -027 | -433 | -301 | -041 | -026 | -176 | -524 | -271 | -255 | -403 | -422 | -213 | -226 | -302 | -224 |
| | 15 | -260 | -115 | -046 | -022 | -127 | -204 | -137 | -221 | -084 | -015 | -053 | -114 | -220 | -273 | -460 | -205 | -184 | -372 | -209 | -399 | -147 | -128 | -524 | -490 | -209 |
| | 16 | -263 | -184 | -066 | -034 | -036 | -065 | -142 | -261 | -061 | -085 | -258 | -480 | -213 | -076 | -256 | -500 | -499 | -646 | -733 | -221 | -055 | -124 | -203 | -446 | -246 |
| | 17 | -106 | -055 | -031 | -081 | -105 | -088 | -206 | -046 | -095 | -225 | -306 | -138 | -175 | -128 | -190 | -077 | -040 | -320 | -307 | -115 | -052 | -208 | -341 | -249 | -154 |
| | 18 | -225 | -291 | -272 | -112 | -104 | -226 | -261 | -092 | -025 | -017 | -031 | -028 | -197 | -227 | -135 | -210 | -119 | -056 | -155 | -212 | -328 | -366 | -161 | -083 | -164 |
| | 19 | -089 | -004 | -008 | -016 | -172 | -109 | -109 | -081 | -138 | -229 | -277 | -286 | -141 | -024 | -003 | -007 | -005 | -003 | -122 | -205 | -259 | -051 | -182 | -206 | -114 |
| Q | 20 | -196 | -020 | -020 | -041 | -022 | -007 | -003 | -039 | -150 | -215 | -117 | -001 | -002 | 002 | 003 | 000 | -003 | 000 | -006 | -096 | -176 | -091 | -125 | -113 | -060 |
| | 21 | -076 | -009 | -011 | -047 | -102 | -081 | -041 | -048 | -108 | -047 | -064 | -058 | -036 | -044 | -072 | -096 | -096 | -089 | -194 | -157 | -007 | 000 | -010 | -013 | -063 |
| Q | 22 | -026 | -100 | -169 | -088 | 000 | 000 | -001 | 000 | -012 | -064 | -043 | -106 | -063 | -086 | -170 | -228 | -148 | -219 | -154 | -056 | -010 | -026 | -038 | -034 | -077 |
| D | 23 | -049 | -182 | -127 | -007 | -022 | -048 | -248 | -089 | -048 | -252 | -422 | -1131 | -387 | -107 | -339 | -739 | -614 | -354 | -096 | -034 | -012 | -027 | -058 | -257 | -235 |
| | 24 | -282 | -271 | -311 | -092 | -046 | -046 | -009 | -009 | -016 | -020 | -024 | -016 | -296 | -375 | -219 | -288 | -440 | -137 | -066 | -114 | -144 | -247 | -106 | -078 | -152 |
| | 25 | -102 | -119 | -276 | -192 | -207 | -460 | -346 | -082 | -210 | -182 | -186 | -260 | -414 | -494 | -168 | -115 | -238 | -061 | -058 | -024 | -017 | -067 | -090 | -147 | -188 |
| | 26 | -096 | -053 | -158 | -145 | -009 | -012 | -018 | -079 | -042 | -038 | -050 | -092 | -103 | -136 | -190 | -023 | -087 | -176 | -161 | -147 | -051 | -011 | -006 | -005 | -079 |
| Q | 27 | -005 | -001 | -005 | -001 | -022 | -159 | -155 | -057 | -016 | -013 | -013 | -005 | -003 | -008 | -040 | -106 | -011 | -007 | -006 | -004 | -014 | -008 | -011 | -016 | -029 |
| | 28 | -031 | -045 | -045 | -102 | -118 | -028 | -060 | -038 | -255 | -134 | -043 | -009 | -008 | -010 | -038 | -098 | -076 | -025 | -012 | -165 | -215 | -297 | -070 | -077 | -083 |
| | MEAN | -158 | -153 | -152 | -117 | -118 | -131 | -135 | -097 | -107 | -108 | -140 | -229 | -210 | -174 | -185 | -178 | -227 | -287 | -211 | -148 | -154 | -190 | -158 | -173 | -164 |
| %Q | MEAN | -084 | -056 | -072 | -072 | -071 | -062 | -066 | -058 | -108 | -099 | -061 | -063 | -030 | -026 | -054 | -087 | -050 | -061 | -060 | -054 | -062 | -045 | -041 | -042 | -061 |
| %D | MEAN | -163 | -325 | -229 | -190 | -213 | -214 | -237 | -164 | -171 | -132 | -260 | -584 | -385 | -264 | -360 | -372 | -478 | -598 | -354 | -173 | -233 | -479 | -300 | -290 | -298 |

MARCH 1975 AL INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -068 | -271 | -330 | -149 | -087 | -115 | -191 | -688 | -471 | -221 | -278 | -144 | -017 | -066 | -043 | -053 | -352 | -516 | -397 | -413 | -406 | -238 | -075 | -030 | -234 |
| | 02 | -106 | -384 | -244 | -114 | -073 | -207 | -237 | -178 | -160 | -149 | -063 | -092 | -152 | -059 | -061 | -016 | -029 | -123 | -221 | -161 | -249 | -156 | -171 | -090 | -146 |
| | 03 | -213 | -167 | -035 | -029 | -053 | -161 | -043 | -010 | -013 | -035 | -035 | -013 | -070 | -085 | -047 | -126 | -232 | -265 | -199 | -057 | -101 | -288 | -232 | -146 | -111 |
| | 04 | -039 | -083 | -266 | -206 | -148 | -039 | -147 | -215 | -071 | -036 | -078 | -052 | -017 | -055 | -047 | -011 | -014 | -065 | -023 | -020 | -024 | -020 | -067 | -165 | -080 |
| | 05 | -074 | -062 | -196 | -472 | -386 | -264 | -314 | -145 | -302 | -377 | -785 | -600 | -279 | -086 | -537 | -563 | -347 | -330 | -251 | -537 | -134 | -065 | -326 | -346 | -324 |
| | 06 | -087 | -028 | -050 | -126 | -174 | -214 | -185 | -409 | -459 | -583 | -344 | -335 | -485 | -196 | -434 | -508 | -520 | -719 | -304 | -074 | -188 | -424 | -146 | -015 | -292 |
| Q | 07 | -065 | -115 | -061 | -066 | -022 | -022 | -040 | -028 | -031 | -016 | -014 | -010 | -009 | -008 | -011 | -011 | -011 | -006 | -004 | -002 | -001 | -008 | -008 | -011 | -024 |
| Q | 08 | -010 | -008 | -005 | -006 | -006 | -006 | -003 | -002 | -002 | -004 | -005 | -009 | -014 | -012 | -010 | -011 | -010 | -005 | -004 | -003 | -024 | -012 | -014 | -014 | -008 |
| | 09 | -017 | -014 | -008 | -013 | -026 | -015 | -014 | -009 | -009 | -014 | -015 | -017 | -018 | -016 | -010 | -015 | -017 | -060 | -024 | -030 | -194 | -044 | -153 | -721 | -061 |
| D | 10 | -750 | -860 | -648 | -220 | -232 | -254 | -293 | -306 | -320 | -614 | -474 | -551 | -573 | -747 | -525 | -626 | -699 | -556 | -773 | -918 | -796 | -500 | -435 | -706 | -557 |
| D | 11 | -538 | -409 | -1014 | -869 | -345 | -283 | -335 | -428 | -465 | -328 | -455 | -558 | -359 | -649 | -373 | -305 | -380 | -362 | -153 | -261 | -186 | -602 | -371 | -426 | -436 |
| D | 12 | -262 | -286 | -283 | -512 | -275 | -140 | -058 | -345 | -430 | -426 | -689 | -404 | -461 | -389 | -349 | -489 | -417 | -190 | -301 | -427 | -617 | -397 | -684 | -587 | -392 |
| | 13 | -286 | -312 | -319 | -118 | -108 | -044 | -099 | -132 | -180 | -247 | -200 | -359 | -207 | -438 | -472 | -301 | -288 | -514 | -850 | -460 | -211 | -124 | -622 | -439 | -305 |
| | 14 | -123 | -075 | -098 | -183 | -106 | -381 | -389 | -340 | -155 | -066 | -151 | -366 | -254 | -657 | -497 | -265 | -294 | -337 | -194 | -392 | -395 | -233 | -693 | -271 | -288 |
| | 15 | -183 | -394 | -263 | -098 | -170 | -228 | -257 | -184 | -232 | -182 | -144 | -279 | -494 | -264 | -141 | -347 | -461 | -171 | -243 | -322 | -200 | -361 | -248 | -129 | -250 |
| | 16 | -086 | -124 | -181 | -206 | -161 | -212 | -261 | -140 | -479 | -622 | -329 | -327 | -501 | -383 | -121 | -336 | -422 | -167 | -046 | -024 | -037 | -031 | -050 | -182 | -226 |
| | 17 | -302 | -121 | -213 | -247 | -184 | -040 | -018 | -086 | -181 | -313 | -243 | -157 | -068 | -038 | -041 | -209 | -073 | -024 | -040 | -196 | -119 | -160 | -184 | -530 | -158 |
| | 18 | -448 | -219 | -055 | -019 | -098 | -103 | -240 | -112 | -166 | -185 | -052 | -253 | -315 | -164 | -187 | -335 | -615 | -261 | -330 | -385 | -322 | -289 | -214 | -054 | -226 |
| | 19 | -139 | -087 | -070 | -063 | -053 | -030 | -046 | -156 | -109 | -072 | -100 | -114 | -117 | -141 | -239 | -116 | -074 | -082 | -165 | -131 | -143 | -270 | -307 | -177 | -125 |
| | 20 | -068 | -020 | -017 | -039 | -052 | -234 | -263 | -203 | -115 | -080 | -098 | -297 | -343 | -420 | -401 | -315 | -128 | -391 | -237 | -131 | -162 | -205 | -333 | -159 | -196 |
| Q | 21 | -115 | -060 | -011 | -013 | -016 | -029 | -051 | -061 | -008 | -009 | -030 | -042 | -020 | -012 | -010 | -012 | -037 | -012 | -007 | -005 | -009 | -012 | -018 | -023 | -026 |
| Q | 22 | -021 | -020 | -014 | -011 | -014 | -018 | -018 | -019 | -014 | -010 | -019 | -012 | -013 | -014 | -014 | -011 | -015 | -015 | -008 | -002 | 000 | 000 | -009 | -136 | -018 |
| | 23 | -161 | -129 | -144 | -246 | -219 | -188 | -138 | -158 | -242 | -073 | -064 | -333 | -141 | -132 | -054 | -037 | -043 | -047 | -095 | -124 | -038 | 001 | -009 | -011 | -118 |
| | 24 | -031 | -015 | -012 | -012 | -009 | -010 | -013 | -012 | -033 | -114 | -349 | -400 | -417 | -241 | -358 | -450 | -210 | -332 | -060 | -044 | -217 | -110 | -043 | -008 | -146 |
| Q | 25 | 000 | -030 | -032 | -049 | -039 | -014 | 001 | -098 | -032 | -014 | -025 | -068 | -304 | -111 | -054 | -014 | -014 | -150 | -176 | -041 | -018 | -017 | -032 | -006 | -056 |
| | 26 | -009 | -015 | -030 | -196 | -162 | -030 | -009 | -019 | -040 | -063 | -229 | -480 | -309 | -170 | -128 | -126 | -083 | -081 | -117 | -279 | -317 | -087 | -024 | -107 | -130 |
| D | 27 | -167 | -192 | -183 | -141 | -089 | -122 | -078 | -136 | -173 | -185 | -336 | -276 | -551 | -597 | -891 | -880 | -1155 | -1112 | -623 | -285 | -103 | -088 | -158 | -336 | -369 |
| D | 28 | -163 | -085 | -113 | -093 | -335 | -288 | -283 | -447 | -506 | -208 | -456 | -709 | -465 | -685 | -376 | -495 | -394 | -267 | -401 | -540 | -368 | -353 | -498 | -088 | -359 |
| | 29 | -058 | -103 | -259 | -362 | -176 | -210 | -645 | -344 | -362 | -422 | -387 | -628 | -467 | -312 | -355 | -268 | -249 | -647 | -219 | -096 | -098 | -133 | -056 | -088 | -289 |
| | 30 | -279 | -134 | -128 | -168 | -070 | -064 | -090 | -171 | -130 | -089 | -095 | -283 | -194 | -069 | -063 | -018 | -030 | -019 | -078 | -080 | -104 | -201 | -096 | -244 | -121 |
| | 31 | -364 | -416 | -470 | -422 | -194 | -101 | -138 | -125 | -098 | -012 | -014 | -088 | -171 | -326 | -165 | -093 | -282 | -130 | -230 | -338 | -013 | -015 | -026 | -086 | -180 |
| | MEAN | -169 | -169 | -186 | -176 | -132 | -131 | -158 | -184 | -193 | -186 | -211 | -266 | -252 | -243 | -226 | -237 | -255 | -257 | -218 | -219 | -187 | -176 | -203 | -204 | -202 |
| 5Q | MEAN | -042 | -047 | -025 | -029 | -019 | -018 | -022 | -042 | -017 | -011 | -019 | -028 | -072 | -031 | -020 | -012 | -017 | -038 | -040 | -011 | -010 | -010 | -016 | -038 | -026 |
| 5D | MEAN | -376 | -366 | -448 | -367 | -255 | -217 | -209 | -332 | -379 | -352 | -482 | -500 | -482 | -613 | -503 | -559 | -609 | -497 | -450 | -486 | -414 | -388 | -429 | -429 | -422 |

APRIL 1975 AL INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -189 | -090 | -025 | -019 | -041 | -020 | -073 | -263 | -237 | -129 | -111 | -090 | -057 | -030 | -091 | -031 | -101 | -172 | -031 | -033 | -028 | -043 | -030 | -031 | -082 |
| | 02 | -043 | -056 | -068 | -056 | -010 | -019 | -027 | -031 | -028 | -023 | -027 | -030 | -028 | -023 | -023 | -024 | -027 | -028 | -050 | -054 | -055 | -128 | -128 | -038 | -042 |
| | 03 | -122 | -247 | -156 | -108 | -024 | -019 | -027 | -103 | -102 | -033 | -022 | -021 | -030 | -021 | -060 | -104 | -060 | -016 | -033 | -045 | -138 | -166 | -038 | -040 | -072 |
| | 04 | -030 | -124 | -130 | -227 | -089 | -008 | -023 | -021 | -128 | -171 | -043 | -018 | -028 | -098 | -050 | -078 | -085 | -042 | -068 | -040 | -240 | -327 | -107 | -247 | -101 |
| | 05 | -293 | -183 | -040 | -047 | -021 | -023 | -030 | -124 | -128 | -083 | -019 | -022 | -021 | -018 | -015 | -018 | -046 | -279 | -285 | -115 | -075 | -200 | -208 | -102 | -100 |
| | 06 | -072 | -226 | -096 | -080 | -068 | -131 | -096 | -067 | -135 | -149 | -092 | -061 | -088 | -071 | -093 | -264 | -192 | -067 | -014 | -006 | -028 | -473 | -152 | -031 | -115 |
| | 07 | -065 | -077 | -022 | -033 | -053 | -022 | -085 | -052 | -022 | -020 | -026 | -355 | -510 | -070 | -004 | -023 | -028 | -066 | -515 | -470 | -354 | -545 | -409 | -350 | -174 |
| D | 08 | -247 | -258 | -224 | -206 | -101 | -182 | -290 | -327 | -203 | -476 | -270 | -094 | -537 | -440 | -611 | -592 | -388 | -436 | -359 | -503 | -253 | -039 | -022 | -058 | -297 |
| D | 09 | -294 | -562 | -732 | -526 | -651 | -433 | -422 | -263 | -309 | -353 | -439 | -295 | -387 | -426 | -393 | -394 | -332 | -1290 | -476 | -692 | -509 | -633 | -705 | -485 | -500 |
| D | 10 | -450 | -294 | -574 | -749 | -596 | -215 | -152 | -237 | -298 | -455 | -274 | -452 | -310 | -069 | -022 | -090 | -181 | -262 | -502 | -187 | -058 | -355 | -658 | -194 | -318 |
| D | 11 | -119 | -661 | -446 | -264 | -435 | -455 | -410 | -196 | -251 | -441 | -507 | -887 | -746 | -182 | -222 | -475 | -267 | -150 | -257 | -187 | -077 | -138 | -296 | -326 | -350 |
| | 12 | -170 | -106 | -125 | -107 | -145 | -129 | -359 | -171 | -132 | -542 | -495 | -393 | -199 | -242 | -257 | -459 | -286 | -172 | -280 | -154 | -066 | -532 | -898 | -607 | -293 |
| D | 13 | -781 | -637 | -266 | -202 | -285 | -193 | -250 | -664 | -242 | -027 | -106 | -088 | -132 | -148 | -353 | -050 | -024 | -014 | -062 | -208 | -234 | -307 | -487 | -459 | -259 |
| | 14 | -291 | -583 | -539 | -551 | -444 | -333 | -331 | -048 | -022 | -083 | -172 | -111 | -123 | -163 | -212 | -188 | -154 | -095 | -104 | -230 | -200 | -075 | -171 | -177 | -225 |
| | 15 | -073 | -071 | -124 | -034 | -081 | -087 | -027 | -029 | -048 | -033 | -067 | -180 | -085 | -067 | -171 | -186 | -127 | -269 | -164 | -067 | -112 | -078 | -076 | -125 | -099 |
| | 16 | -203 | -195 | -063 | -105 | -090 | -022 | -054 | -061 | -095 | -025 | -085 | -097 | -040 | -017 | -014 | -023 | -053 | -095 | -133 | -068 | -075 | -022 | -021 | -019 | -070 |
| Q | 17 | -022 | -041 | -086 | -050 | -019 | -022 | -024 | -021 | -042 | -160 | -130 | -043 | -046 | -021 | -009 | -013 | -104 | -167 | -027 | 003 | 000 | -008 | -010 | -012 | -045 |
| | 18 | -013 | -008 | -010 | -014 | -020 | -017 | -019 | -029 | -036 | -026 | -034 | -089 | -263 | -146 | -105 | -111 | -071 | -066 | -209 | -136 | -083 | -047 | -058 | -169 | -074 |
| Q | 19 | -143 | -060 | -023 | -010 | -136 | -186 | -084 | -027 | -047 | -121 | -116 | -044 | -172 | -064 | -068 | -040 | -016 | -008 | -003 | -004 | -027 | -008 | -013 | -016 | -060 |
| | 20 | -013 | -010 | -012 | -012 | -012 | -018 | -015 | -032 | -076 | -159 | -203 | -093 | -023 | -233 | -244 | -308 | -298 | -631 | -593 | -767 | -1002 | -752 | -461 | -395 | -265 |
| | 21 | -353 | -357 | -464 | -110 | -023 | -012 | -010 | -009 | -018 | -016 | -050 | -040 | -031 | -088 | -164 | -430 | -217 | -116 | -411 | -188 | -017 | -032 | -039 | -018 | -134 |
| | 22 | -117 | -236 | -085 | -039 | -127 | -352 | -316 | -243 | -164 | -047 | -043 | -013 | -018 | -124 | -173 | -080 | -071 | -173 | -314 | -177 | -200 | -165 | -439 | -171 | -162 |
| | 23 | -102 | -376 | -321 | -117 | -163 | -241 | -279 | -171 | -304 | -135 | -815 | -238 | -124 | -088 | -068 | -232 | -570 | -173 | -228 | -091 | -294 | -291 | -214 | -189 | -243 |
| | 24 | -486 | -366 | -252 | -275 | -159 | -116 | -214 | -307 | -095 | -099 | -519 | -121 | -068 | -046 | -098 | -131 | -228 | -189 | -118 | -173 | -350 | -217 | -134 | -146 | -204 |
| | 25 | -132 | -137 | -033 | -078 | -250 | -101 | -034 | -054 | -096 | -125 | -067 | -017 | -020 | -054 | -145 | -139 | -107 | -038 | -032 | -017 | -014 | -024 | -020 | -114 | -077 |
| | 26 | -458 | -225 | -038 | -067 | -037 | -021 | -023 | -023 | -031 | -048 | -050 | -149 | -116 | -054 | -062 | -064 | -042 | -149 | -239 | -059 | -066 | -123 | -106 | -028 | -095 |
| Q | 27 | -029 | -022 | -033 | -152 | -380 | -151 | -041 | -023 | -020 | -022 | -109 | -042 | -033 | -028 | -028 | -032 | -013 | -014 | -011 | -014 | -017 | -020 | -023 | -042 | -054 |
| Q | 28 | -028 | -141 | -066 | -017 | -015 | -023 | -035 | -038 | -027 | -025 | -021 | -017 | -008 | -006 | -002 | -003 | -015 | -013 | -023 | -017 | -008 | -007 | -017 | -014 | -024 |
| Q | 29 | -018 | -026 | -019 | -018 | -022 | -022 | -023 | -021 | -031 | -027 | -114 | -032 | -021 | -012 | -004 | -007 | -009 | -025 | -046 | -011 | -008 | -008 | -011 | -018 | -023 |
| | 30 | -018 | -018 | -022 | -020 | -025 | -021 | -074 | -070 | -242 | -186 | -107 | -036 | -018 | -006 | -033 | -066 | -033 | -017 | -012 | -024 | -036 | -032 | -107 | -082 | -054 |
| | MEAN | -179 | -213 | -170 | -143 | -151 | -120 | -128 | -124 | -120 | -141 | -171 | -139 | -143 | -102 | -126 | -155 | -138 | -174 | -187 | -158 | -154 | -193 | -202 | -157 | -154 |
| 5Q | MEAN | -048 | -058 | -045 | -049 | -114 | -081 | -041 | -026 | -033 | -071 | -098 | -036 | -056 | -026 | -022 | -019 | -031 | -045 | -022 | -009 | -012 | -010 | -015 | -020 | -041 |
| 5D | MEAN | -378 | -482 | -448 | -389 | -414 | -296 | -305 | -337 | -261 | -350 | -319 | -363 | -422 | -253 | -320 | -320 | -238 | -430 | -331 | -355 | -226 | -294 | -434 | -304 | -344 |

MAY 1975 AL INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -012 | -010 | -012 | -011 | -029 | -053 | -071 | -083 | -110 | -069 | -025 | -026 | -050 | -107 | -181 | -152 | -080 | -078 | -136 | -125 | -070 | -082 | -031 | -101 | -071 |
| | 02 | -189 | -088 | -053 | -079 | -123 | -248 | -110 | -316 | -303 | -343 | -092 | -075 | -218 | -331 | -292 | -304 | -326 | -224 | -298 | -343 | -406 | -137 | -358 | -413 | -236 |
| | 03 | -278 | -269 | -501 | -710 | -525 | -350 | -378 | -270 | -106 | -073 | -066 | -295 | -311 | -505 | -383 | -116 | -022 | -053 | -084 | -161 | -165 | -118 | -160 | -311 | -259 |
| | 04 | -300 | -149 | -214 | -071 | -081 | -371 | -194 | -233 | -198 | -069 | -085 | -086 | -189 | -099 | -008 | -033 | -059 | -090 | -219 | -142 | -102 | -192 | -344 | -462 | -166 |
| D | 05 | -585 | -372 | -423 | -497 | -323 | -094 | -110 | -517 | -305 | -323 | -263 | -146 | -075 | -132 | -194 | -105 | -032 | -251 | -549 | -358 | -466 | -480 | -529 | -419 | -315 |
| D | 06 | -610 | -385 | -431 | -641 | -529 | -177 | -155 | -381 | -452 | -391 | -195 | -216 | -214 | -181 | -227 | -180 | -448 | -245 | -310 | -288 | -256 | -464 | -321 | -240 | -331 |
| D | 07 | -229 | -227 | -133 | -100 | -066 | -089 | -056 | -221 | -248 | -147 | -252 | -287 | -368 | -280 | -621 | -630 | -314 | -099 | -329 | -151 | -049 | -057 | -301 | -223 | -228 |
| | 08 | -283 | -133 | -313 | -166 | -282 | -213 | -370 | -197 | -181 | -128 | -085 | -123 | -178 | -087 | -040 | -095 | -110 | -161 | -184 | -316 | -331 | -373 | -312 | -252 | -205 |
| | 09 | -136 | -290 | -391 | -123 | -040 | -044 | -164 | -280 | -123 | -156 | -302 | -115 | -134 | -253 | -227 | -283 | -106 | -063 | -170 | -302 | -188 | -237 | -270 | -629 | -209 |
| | 10 | -265 | -212 | -505 | -813 | -470 | -273 | -317 | -279 | -378 | -202 | -110 | -127 | -424 | -213 | -125 | -146 | -070 | -091 | -086 | -111 | -209 | -250 | -161 | -025 | -244 |
| Q | 11 | -019 | -027 | -030 | -058 | -050 | -042 | -026 | -019 | -017 | -050 | -040 | -022 | -015 | -010 | -012 | -021 | -037 | -013 | -023 | -030 | -033 | -012 | -009 | -012 | -026 |
| Q | 12 | -015 | -016 | -020 | -022 | -031 | -091 | -071 | -064 | -038 | -034 | -032 | -024 | -015 | -008 | -007 | -008 | -013 | -012 | -012 | -011 | -020 | -018 | -018 | -019 | -026 |
| | 13 | -017 | -014 | -014 | -038 | -026 | -012 | -018 | -029 | -017 | -027 | -046 | -104 | -023 | -011 | -010 | -011 | -006 | -008 | -009 | -156 | -144 | -278 | -322 | -238 | -066 |
| | 14 | -265 | -200 | -294 | -381 | -287 | -199 | -164 | -148 | -090 | -115 | -362 | -397 | -306 | -179 | -113 | -115 | -072 | -082 | -075 | -125 | -111 | -163 | -100 | -024 | -182 |
| Q | 15 | -011 | -026 | -060 | -053 | -043 | -137 | -201 | -110 | -047 | -040 | -031 | -026 | -018 | -022 | -041 | -090 | -041 | -052 | -044 | -015 | -020 | -012 | -010 | -014 | -049 |
| D | 16 | -016 | -020 | -022 | -107 | -307 | -202 | -148 | -585 | -476 | -217 | -050 | -051 | -566 | -339 | -137 | -060 | -079 | -142 | -110 | -020 | -016 | -048 | -320 | -329 | -182 |
| | 17 | -199 | -111 | -077 | -089 | -245 | -236 | -229 | -040 | -322 | -480 | -275 | -128 | -154 | -440 | -175 | -064 | -134 | -191 | -053 | -039 | -009 | -007 | -012 | -015 | -155 |
| | 18 | -045 | -070 | -100 | -251 | -297 | -229 | -164 | -153 | -200 | -110 | -090 | -055 | -096 | -121 | -151 | -081 | -021 | -028 | -078 | -230 | -035 | -097 | -117 | -135 | -123 |
| | 19 | -202 | -388 | -363 | -253 | -156 | -383 | -201 | -146 | -149 | -155 | -088 | -011 | -016 | -007 | -013 | 000 | -006 | -006 | -002 | -012 | -166 | -215 | -045 | -004 | -124 |
| D | 20 | -037 | -115 | -138 | -296 | -195 | -173 | -540 | -305 | -378 | -582 | -099 | -031 | -076 | -033 | -090 | -155 | -241 | -071 | -018 | -023 | -009 | -012 | -032 | -037 | -154 |
| | 21 | -039 | -181 | -275 | -169 | -163 | -270 | -072 | -073 | -135 | -096 | -042 | -250 | -239 | -237 | -058 | -011 | -013 | -031 | -026 | -133 | -272 | -219 | -087 | -094 | -133 |
| | 22 | -104 | -100 | -023 | -015 | -083 | -307 | -192 | -251 | -156 | -208 | -385 | -269 | -180 | -218 | -253 | -049 | -033 | -154 | -126 | -040 | -033 | -020 | -138 | -262 | -150 |
| | 23 | -063 | -021 | -018 | -017 | -022 | -204 | -284 | -165 | -085 | -189 | -176 | -185 | -039 | -002 | -006 | -052 | -026 | -089 | -183 | -233 | -107 | -012 | -017 | -027 | -093 |
| | 24 | -047 | -030 | -046 | -033 | -035 | -028 | -120 | -167 | -055 | -024 | -061 | -121 | -041 | -002 | -010 | -017 | -029 | -036 | -025 | -025 | -019 | -030 | -142 | -120 | -053 |
| | 25 | -092 | -169 | -211 | -168 | -015 | -031 | -050 | -047 | -026 | -084 | -100 | -049 | -051 | -068 | -114 | -106 | -080 | -216 | -370 | -446 | -491 | -607 | -462 | -447 | -188 |
| | 26 | -437 | -400 | -466 | -358 | -532 | -419 | -280 | -336 | -274 | -080 | -144 | -242 | -029 | 012 | 004 | -004 | -019 | -022 | -020 | -014 | -018 | -012 | -006 | -009 | -171 |
| | 27 | -014 | -023 | -021 | -017 | -034 | -127 | -098 | -161 | -053 | -034 | -109 | -117 | -144 | -134 | -128 | -101 | -082 | -096 | -137 | -141 | -150 | -062 | -032 | -019 | -085 |
| Q | 28 | -034 | -030 | -055 | -103 | -085 | -059 | -015 | -015 | -021 | -026 | -030 | -029 | -025 | -021 | -009 | -042 | -030 | -025 | -097 | -050 | -024 | -025 | -027 | -025 | -038 |
| | 29 | -024 | -123 | -191 | -216 | -152 | -102 | -291 | -395 | -250 | -279 | -109 | -019 | -010 | -013 | -006 | -074 | -163 | -405 | -147 | -099 | -220 | -247 | -060 | -059 | -152 |
| | 30 | -151 | -045 | -031 | -014 | -018 | -178 | -285 | -212 | -127 | -110 | -072 | -068 | -108 | -131 | -160 | -072 | -022 | -009 | -053 | -028 | -026 | -046 | -094 | -054 | -088 |
| Q | 31 | -034 | -050 | -042 | -021 | -009 | -013 | -025 | -012 | -014 | -014 | -022 | -024 | -014 | -049 | -083 | -070 | -030 | -045 | -069 | -099 | -093 | -089 | -075 | -036 | -043 |
| | MEAN | -153 | -139 | -177 | -190 | -169 | -173 | -174 | -200 | -172 | -157 | -124 | -120 | -140 | -136 | -125 | -105 | -089 | -100 | -130 | -138 | -137 | -149 | -158 | -163 | -147 |
| 5Q | MEAN | -023 | -030 | -041 | -051 | -044 | -068 | -068 | -044 | -027 | -033 | -031 | -025 | -017 | -022 | -030 | -046 | -030 | -029 | -049 | -041 | -038 | -031 | -028 | -021 | -036 |
| 5D | MEAN | -295 | -224 | -229 | -328 | -284 | -147 | -202 | -402 | -372 | -332 | -172 | -146 | -260 | -193 | -254 | -226 | -223 | -162 | -263 | -168 | -159 | -212 | -301 | -250 | -241 |

JUNE 1975 AL INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | -211 | -144 | -062 | -045 | -019 | -052 | -101 | -069 | -035 | -053 | -101 | -128 | -208 | -396 | -211 | -234 | -182 | -116 | -352 | -098 | -035 | -117 | -122 | -285 | -141 |
| D | 02 | -413 | -308 | -342 | -256 | -482 | -389 | -086 | -309 | -567 | -409 | -058 | -087 | -108 | -262 | -338 | -295 | -371 | -259 | -136 | -167 | -175 | -371 | -187 | -144 | -272 |
| | 03 | -166 | -140 | -141 | -070 | -078 | -119 | -261 | -326 | -311 | -198 | -166 | -173 | -383 | -389 | -224 | -118 | -118 | -058 | -098 | -186 | -102 | -093 | -124 | -318 | -182 |
| | 04 | -237 | -250 | -333 | -147 | -154 | -367 | -248 | -192 | -183 | -125 | -104 | -112 | -103 | -055 | -195 | -156 | -201 | -124 | -053 | -066 | -158 | -217 | -110 | -177 | -169 |
| | 05 | -452 | -254 | -141 | -118 | -164 | -053 | -017 | -092 | -052 | -024 | -031 | -173 | -055 | -141 | -162 | -270 | -148 | -274 | -383 | -100 | -097 | -302 | -285 | -087 | -161 |
| | 06 | -163 | -250 | -331 | -312 | -172 | -157 | -105 | -055 | -133 | -069 | -018 | -027 | -042 | -060 | -275 | -281 | -190 | -198 | -272 | -095 | -024 | -065 | -089 | -189 | -149 |
| | 07 | -175 | -077 | -040 | -076 | -145 | -131 | -189 | -228 | -286 | -084 | -039 | -047 | -024 | -019 | -023 | -024 | -026 | -021 | -031 | -039 | -164 | -254 | -062 | -032 | -093 |
| Q | 08 | -034 | -041 | -032 | -031 | -035 | -030 | -072 | -070 | -043 | -052 | -073 | -052 | -064 | -165 | -195 | -109 | -016 | -007 | -012 | -022 | -040 | -055 | -084 | -080 | -059 |
| | 09 | -038 | -037 | -082 | -298 | -106 | -030 | -024 | -041 | -026 | -095 | -114 | -059 | -056 | -024 | -042 | -010 | -027 | -045 | -044 | -024 | -025 | -036 | -032 | -030 | -056 |
| Q | 10 | -042 | -118 | -083 | -079 | -059 | -028 | -026 | -023 | -070 | -098 | -066 | -089 | -119 | -101 | -146 | -182 | -093 | -082 | -054 | -048 | -059 | -055 | -101 | -114 | -081 |
| | 11 | -192 | -157 | -121 | -063 | -092 | -190 | -279 | -249 | -297 | -445 | -337 | -214 | -106 | -090 | -065 | -040 | -009 | -024 | -101 | -018 | -036 | -034 | -068 | -060 | -137 |
| D | 12 | -080 | -223 | -271 | -406 | -168 | -036 | -045 | -168 | -106 | -148 | -295 | -275 | -472 | -389 | -124 | -027 | -087 | -512 | -372 | -250 | -058 | -176 | -276 | -129 | -212 |
| | 13 | -133 | -376 | -148 | -056 | -171 | -371 | -198 | -096 | -194 | -174 | -177 | -260 | -385 | -354 | -300 | -069 | -038 | -093 | -303 | -299 | -112 | -077 | -073 | -107 | -190 |
| | 14 | -069 | -069 | -081 | -088 | -088 | -113 | -283 | -367 | -267 | -248 | -183 | -115 | -187 | -261 | -161 | -106 | -089 | -065 | -220 | -172 | -069 | -017 | -017 | -030 | -140 |
| | 15 | -027 | -059 | -131 | -081 | -084 | -240 | -171 | -200 | -200 | -439 | -237 | -074 | -014 | -032 | -113 | -386 | -436 | -420 | -355 | -041 | -096 | -269 | -338 | -186 | -193 |
| | 16 | -338 | -166 | -220 | -296 | -193 | -120 | -307 | -217 | -205 | -380 | -505 | -348 | -159 | -178 | -343 | -428 | -204 | -309 | -252 | -105 | -057 | -131 | -338 | -132 | -247 |
| | 17 | -048 | -075 | -108 | -087 | -032 | -029 | -165 | -122 | -198 | -351 | -276 | -137 | -334 | -106 | -122 | -124 | -270 | -074 | -105 | -143 | -149 | -295 | -212 | -255 | -159 |
| | 18 | -379 | -298 | -296 | -234 | -404 | -401 | -338 | -090 | -013 | -016 | -067 | -079 | -165 | -103 | -210 | -321 | -138 | -066 | -179 | -081 | -159 | -050 | -030 | -073 | -175 |
| | 19 | -187 | -225 | -174 | -123 | -069 | -101 | -286 | -324 | -321 | -299 | -208 | -227 | -399 | -188 | -135 | -181 | -102 | -092 | -155 | -246 | -088 | -086 | -222 | -153 | -191 |
| | 20 | -037 | -074 | -110 | -060 | -017 | -022 | -055 | -064 | -102 | -075 | -061 | -083 | -149 | -054 | -032 | -033 | -039 | -034 | -036 | -105 | -142 | -105 | -068 | -043 | -067 |
| | 21 | -049 | -038 | -274 | -331 | -110 | -027 | -021 | -063 | -244 | -331 | -180 | -088 | -086 | -054 | -027 | -051 | -127 | -384 | -272 | -046 | -077 | -313 | -177 | -282 | -152 |
| | 22 | -123 | -097 | -042 | -046 | -076 | -076 | -058 | -092 | -256 | -204 | -171 | -144 | -082 | -102 | -063 | -025 | -012 | -011 | -009 | -032 | -084 | -075 | -029 | -042 | -081 |
| Q | 23 | -056 | -021 | -025 | -020 | -100 | -094 | -042 | -029 | -023 | -022 | -018 | -025 | -069 | -052 | -036 | -035 | -076 | -022 | -034 | -077 | -019 | -068 | -073 | -025 | -044 |
| Q | 24 | -032 | -051 | -142 | -039 | -014 | -014 | -017 | -019 | -023 | -032 | -023 | -013 | -006 | -014 | -012 | -008 | 000 | -003 | -006 | -012 | -022 | -029 | -034 | -030 | -025 |
| | 25 | -029 | -028 | -025 | -016 | -017 | -020 | -019 | -021 | -031 | -024 | -025 | -050 | -043 | -104 | -099 | -151 | -194 | -069 | -041 | -094 | -129 | -207 | -200 | -190 | -076 |
| | 26 | -188 | -243 | -208 | -090 | -285 | -092 | -043 | -051 | -157 | -116 | -029 | -063 | -171 | -104 | -027 | -045 | -082 | -020 | -015 | -030 | -050 | -022 | -024 | -021 | -091 |
| Q | 27 | -023 | -025 | -023 | -018 | -032 | -098 | -078 | -030 | -024 | -033 | -026 | -024 | -020 | -018 | -017 | -054 | -041 | -041 | -040 | -022 | -038 | -055 | -067 | -065 | -038 |
| | 28 | -067 | -040 | -021 | -019 | -007 | -007 | -061 | -247 | -145 | -103 | -075 | -075 | -201 | -093 | -063 | -052 | -024 | -016 | -013 | -014 | -015 | -020 | -029 | -018 | -059 |
| D | 29 | -026 | -024 | -068 | -063 | -036 | -097 | -237 | -045 | -024 | -024 | -029 | -028 | -022 | -045 | -181 | -401 | -482 | -269 | -077 | -372 | -586 | -397 | -229 | -228 | -166 |
| D | 30 | -363 | -462 | -409 | -225 | -238 | -145 | -103 | -347 | -310 | -181 | -354 | -258 | -176 | -075 | -072 | -119 | -191 | -183 | -270 | -163 | -106 | -240 | -417 | -183 | -233 |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MEAN | -146 | -146 | -149 | -126 | -122 | -122 | -131 | -142 | -162 | -162 | -135 | -118 | -147 | -134 | -134 | -145 | -134 | -130 | -143 | -106 | -099 | -141 | -137 | -124 | -135 |
| 5Q | MEAN | -037 | -051 | -061 | -037 | -048 | -053 | -047 | -034 | -037 | -047 | -041 | -041 | -056 | -070 | -081 | -078 | -045 | -031 | -029 | -036 | -036 | -052 | -072 | -063 | -049 |
| 5D | MEAN | -219 | -232 | -230 | -199 | -189 | -144 | -114 | -188 | -208 | -163 | -167 | -155 | -197 | -233 | -185 | -215 | -263 | -268 | -241 | -210 | -192 | -260 | -246 | -194 | -204 |

TABLES OF HOURLY AVERAGE AU INDICES

JANUARY 1975 AU INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 048 | 089 | 077 | 050 | 045 | 037 | 031 | 068 | 044 | 031 | 026 | 038 | 026 | 037 | 045 | 054 | 054 | 045 | 026 | 016 | 014 | 019 | 014 | 019 | 040 |
| Q | 02 | 023 | 029 | 038 | 034 | 025 | 023 | 017 | 016 | 018 | 020 | 017 | 014 | 012 | 021 | 034 | 036 | 028 | 028 | 022 | 034 | 031 | 035 | 028 | 024 | 025 |
| | 03 | 015 | 016 | 017 | 019 | 022 | 025 | 035 | 032 | 040 | 085 | 045 | 037 | 030 | 060 | 105 | 104 | 061 | 037 | 052 | 074 | 103 | 098 | 064 | 067 | 052 |
| D | 04 | 120 | 080 | 042 | 041 | 036 | 086 | 153 | 183 | 166 | 128 | 148 | 254 | 122 | 101 | 253 | 197 | 146 | 164 | 142 | 082 | 087 | 131 | 115 | 081 | 127 |
| | 05 | 107 | 095 | 081 | 091 | 135 | 106 | 188 | 135 | 128 | 112 | 124 | 109 | 149 | 096 | 060 | 098 | 096 | 115 | 112 | 073 | 135 | 088 | 102 | 042 | 107 |
| | 06 | 056 | 035 | 033 | 041 | 039 | 049 | 040 | 033 | 047 | 027 | 056 | 085 | 173 | 117 | 061 | 055 | 056 | 084 | 144 | 094 | 224 | 235 | 206 | 108 | 087 |
| D | 07 | 312 | 225 | 082 | 049 | 100 | 136 | 162 | 218 | 142 | 127 | 113 | 110 | 100 | 050 | 063 | 039 | 014 | 025 | 019 | 014 | 012 | 007 | 004 | 036 | 090 |
| D | 08 | 038 | 038 | 050 | 040 | 043 | 104 | 041 | 228 | 187 | 250 | 148 | 140 | 182 | 121 | 196 | 152 | 269 | 203 | 147 | 127 | 089 | 067 | 040 | 039 | 122 |
| | 09 | 062 | 057 | 036 | 033 | 038 | 039 | 056 | 033 | 055 | 075 | 058 | 055 | 093 | 047 | 053 | 064 | 020 | 021 | 012 | 013 | 018 | 019 | 009 | 014 | 041 |
| | 10 | 012 | 006 | 001 | 011 | 018 | 025 | 010 | 022 | 024 | 056 | 035 | 017 | 022 | 018 | 015 | 009 | 007 | 004 | 004 | 006 | 007 | 010 | 008 | 009 | 015 |
| Q | 11 | 013 | 010 | 009 | 005 | 008 | 009 | 011 | 013 | 026 | 035 | 065 | 067 | 014 | 010 | 009 | 017 | 012 | 011 | 008 | 007 | 006 | 009 | 007 | 013 | 016 |
| Q | 12 | 004 | 008 | 016 | 015 | 010 | 013 | 009 | 009 | 010 | 021 | 025 | 030 | 017 | 010 | 010 | 009 | 010 | 013 | 018 | 027 | 042 | 044 | 032 | 030 | 018 |
| D | 13 | 058 | 048 | 088 | 079 | 086 | 093 | 176 | 167 | 189 | 232 | 160 | 202 | 119 | 193 | 176 | 124 | 066 | 204 | 224 | 180 | 164 | 183 | 163 | 165 | 147 |
| D | 14 | 218 | 192 | 070 | 096 | 153 | 082 | 078 | 126 | 109 | 125 | 108 | 138 | 171 | 172 | 176 | 202 | 245 | 173 | 199 | 185 | 145 | 108 | 089 | 105 | 144 |
| | 15 | 072 | 108 | 119 | 087 | 068 | 100 | 090 | 040 | 059 | 073 | 089 | 074 | 074 | 081 | 056 | 082 | 056 | 118 | 137 | 141 | 080 | 115 | 134 | 087 | 089 |
| | 16 | 112 | 050 | 049 | 047 | 054 | 046 | 041 | 068 | 029 | 046 | 059 | 093 | 060 | 110 | 175 | 278 | 167 | 174 | 104 | 139 | 135 | 176 | 153 | 131 | 104 |
| | 17 | 153 | 144 | 129 | 074 | 090 | 124 | 100 | 124 | 154 | 114 | 082 | 096 | 121 | 091 | 057 | 078 | 068 | 165 | 083 | 069 | 076 | 179 | 121 | 121 | 109 |
| | 18 | 088 | 164 | 121 | 105 | 134 | 077 | 077 | 053 | 056 | 089 | 101 | 081 | 070 | 068 | 115 | 100 | 058 | 063 | 027 | 097 | 114 | 063 | 057 | 047 | 084 |
| | 19 | 039 | 058 | 068 | 077 | 053 | 066 | 055 | 050 | 087 | 068 | 073 | 111 | 091 | 048 | 041 | 057 | 032 | 026 | 031 | 032 | 030 | 030 | 035 | 046 | 054 |
| | 20 | 042 | 063 | 067 | 066 | 052 | 067 | 039 | 050 | 051 | 029 | 027 | 027 | 035 | 025 | 032 | 032 | 021 | 029 | 061 | 092 | 079 | 135 | 100 | 141 | 057 |
| | 21 | 102 | 097 | 046 | 024 | 020 | 013 | 011 | 012 | 014 | 027 | 038 | 029 | 045 | 064 | 080 | 067 | 032 | 050 | 039 | 046 | 022 | 024 | 016 | 015 | 039 |
| | 22 | 007 | 015 | 014 | 021 | 018 | 013 | 013 | 018 | 027 | 020 | 025 | 035 | 050 | 036 | 069 | 142 | 077 | 181 | 132 | 029 | 037 | 084 | 061 | 096 | 051 |
| | 23 | 129 | 160 | 089 | 058 | 043 | 039 | 030 | 030 | 037 | 042 | 069 | 050 | 050 | 136 | 109 | 057 | 058 | 066 | 046 | 059 | 087 | 082 | 074 | 093 | 071 |
| | 24 | 087 | 081 | 036 | 022 | 065 | 038 | 022 | 019 | 058 | 059 | 061 | 053 | 042 | 025 | 014 | 026 | 034 | 053 | 028 | 015 | 033 | 012 | 023 | 018 | 039 |
| Q | 25 | 016 | 018 | 019 | 021 | 015 | 014 | 011 | 009 | 015 | 016 | 022 | 026 | 031 | 025 | 029 | 030 | 035 | 032 | 027 | 025 | 026 | 019 | 022 | 025 | 022 |
| Q | 26 | 065 | 105 | 102 | 038 | 020 | 024 | 025 | 019 | 024 | 030 | 030 | 029 | 054 | 072 | 045 | 042 | 033 | 022 | 017 | 020 | 025 | 028 | 025 | 028 | 038 |
| | 27 | 024 | 035 | 036 | 040 | 034 | 034 | 022 | 060 | 071 | 131 | 322 | 313 | 230 | 115 | 054 | 060 | 220 | 109 | 143 | 169 | 206 | 107 | 089 | 092 | 113 |
| | 28 | 053 | 159 | 135 | 132 | 109 | 042 | 042 | 052 | 049 | 048 | 073 | 070 | 097 | 165 | 138 | 070 | 019 | 014 | 033 | 031 | 057 | 060 | 049 | 052 | 073 |
| | 29 | 055 | 055 | 070 | 103 | 098 | 062 | 049 | 048 | 052 | 054 | 051 | 103 | 123 | 050 | 012 | 013 | 022 | 045 | 054 | 031 | 021 | 021 | 023 | 024 | 052 |
| | 30 | 034 | 033 | 038 | 049 | 028 | 015 | 018 | 043 | 034 | 093 | 065 | 055 | 044 | 040 | 040 | 036 | 033 | 024 | 030 | 033 | 064 | 074 | 059 | 063 | 044 |
| | 31 | 058 | 028 | 024 | 021 | 021 | 008 | 013 | 028 | 019 | 027 | 041 | 098 | 073 | 041 | 019 | 014 | 083 | 225 | 129 | 110 | 109 | 117 | 098 | 036 | 060 |
| | MEAN | 072 | 074 | 058 | 051 | 054 | 052 | 054 | 065 | 065 | 074 | 076 | 085 | 081 | 072 | 076 | 076 | 069 | 081 | 073 | 067 | 073 | 077 | 065 | 060 | 069 |
| 5Q | MEAN | 024 | 034 | 037 | 023 | 016 | 017 | 015 | 013 | 019 | 024 | 032 | 033 | 026 | 028 | 025 | 027 | 024 | 021 | 018 | 023 | 026 | 027 | 023 | 024 | 024 |
| 5D | MEAN | 149 | 117 | 066 | 061 | 084 | 100 | 122 | 184 | 159 | 172 | 135 | 169 | 139 | 127 | 173 | 143 | 148 | 154 | 146 | 118 | 099 | 099 | 082 | 085 | 126 |

FEBRUARY 1975 AU INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | 106 | 079 | 071 | 080 | 162 | 191 | 154 | 082 | 105 | 123 | 152 | 104 | 123 | 180 | 161 | 103 | 112 | 158 | 185 | 083 | 102 | 067 | 088 | 115 | 120 |
| | 02 | 115 | 074 | 078 | 080 | 112 | 055 | 091 | 129 | 093 | 088 | 176 | 136 | 105 | 098 | 085 | 079 | 058 | 065 | 058 | 076 | 075 | 055 | 039 | 034 | 086 |
| | 03 | 039 | 037 | 055 | 043 | 107 | 123 | 080 | 062 | 070 | 053 | 047 | 039 | 025 | 085 | 096 | 071 | 043 | 038 | 044 | 032 | 022 | 028 | 031 | 030 | 054 |
| | 04 | 029 | 022 | 030 | 033 | 035 | 020 | 040 | 024 | 022 | 022 | 019 | 046 | 044 | 071 | 068 | 033 | 034 | 047 | 042 | 030 | 029 | 070 | 071 | 073 | 040 |
| | 05 | 085 | 061 | 075 | 064 | 052 | 045 | 036 | 034 | 060 | 053 | 071 | 083 | 132 | 111 | 043 | 051 | 086 | 156 | 076 | 059 | 090 | 054 | 087 | 053 | 072 |
| Q | 06 | 047 | 039 | 047 | 045 | 048 | 075 | 042 | 024 | 049 | 041 | 048 | 047 | 030 | 028 | 040 | 047 | 090 | 046 | 043 | 061 | 067 | 042 | 042 | 044 | 047 |
| | 07 | 036 | 043 | 048 | 054 | 053 | 053 | 116 | 102 | 088 | 146 | 083 | 113 | 165 | 102 | 061 | 048 | 092 | 184 | 172 | 085 | 115 | 087 | 127 | 081 | 094 |
| Q | 08 | 058 | 062 | 069 | 045 | 062 | 062 | 057 | 093 | 094 | 048 | 031 | 019 | 016 | 015 | 018 | 010 | 024 | 016 | 019 | 021 | 024 | 019 | 026 | 046 | 040 |
| | 09 | 064 | 077 | 113 | 150 | 101 | 058 | 043 | 040 | 031 | 028 | 017 | 014 | 010 | 013 | 014 | 033 | 040 | 052 | 071 | 059 | 083 | 094 | 086 | 088 | 057 |
| D | 10 | 246 | 202 | 084 | 067 | 203 | 221 | 196 | 206 | 261 | 174 | 089 | 117 | 129 | 107 | 100 | 108 | 115 | 168 | 102 | 065 | 082 | 124 | 155 | 126 | 144 |
| D | 11 | 161 | 163 | 217 | 120 | 052 | 100 | 148 | 154 | 081 | 080 | 124 | 139 | 106 | 107 | 064 | 246 | 164 | 246 | 145 | 135 | 144 | 165 | 093 | 135 | 137 |
| D | 12 | 127 | 107 | 120 | 086 | 095 | 171 | 209 | 196 | 319 | 200 | 204 | 220 | 124 | 118 | 087 | 092 | 166 | 166 | 207 | 159 | 181 | 172 | 144 | 122 | 158 |
| | 13 | 114 | 065 | 074 | 091 | 071 | 106 | 093 | 089 | 073 | 101 | 109 | 102 | 094 | 099 | 122 | 100 | 062 | 137 | 102 | 132 | 154 | 107 | 113 | 108 | 101 |
| | 14 | 138 | 097 | 137 | 102 | 072 | 091 | 062 | 074 | 125 | 098 | 069 | 136 | 083 | 062 | 050 | 112 | 217 | 131 | 126 | 120 | 098 | 117 | 092 | 112 | 105 |
| | 15 | 097 | 078 | 090 | 053 | 055 | 040 | 104 | 096 | 118 | 083 | 085 | 062 | 088 | 066 | 072 | 076 | 109 | 124 | 107 | 171 | 132 | 115 | 155 | 134 | 096 |
| | 16 | 122 | 138 | 129 | 115 | 098 | 067 | 093 | 182 | 090 | 091 | 158 | 114 | 117 | 083 | 085 | 134 | 237 | 213 | 193 | 165 | 095 | 081 | 112 | 099 | 125 |
| | 17 | 066 | 052 | 053 | 081 | 065 | 085 | 154 | 116 | 132 | 086 | 085 | 139 | 088 | 073 | 057 | 077 | 050 | 099 | 070 | 055 | 042 | 096 | 090 | 083 | 083 |
| | 18 | 119 | 122 | 084 | 112 | 105 | 117 | 135 | 115 | 049 | 042 | 038 | 047 | 091 | 129 | 088 | 065 | 084 | 072 | 086 | 062 | 123 | 127 | 138 | 121 | 095 |
| | 19 | 092 | 080 | 064 | 101 | 047 | 055 | 060 | 090 | 179 | 148 | 149 | 248 | 090 | 027 | 041 | 027 | 025 | 023 | 046 | 075 | 071 | 067 | 072 | 059 | 081 |
| Q | 20 | 048 | 043 | 037 | 053 | 050 | 043 | 022 | 033 | 098 | 114 | 061 | 037 | 032 | 026 | 024 | 020 | 017 | 018 | 023 | 037 | 065 | 055 | 059 | 090 | 046 |
| | 21 | 115 | 075 | 052 | 074 | 033 | 039 | 054 | 086 | 055 | 095 | 097 | 106 | 063 | 052 | 082 | 095 | 065 | 078 | 077 | 054 | 039 | 035 | 036 | 039 | 067 |
| Q | 22 | 036 | 053 | 063 | 053 | 059 | 042 | 030 | 027 | 027 | 027 | 055 | 059 | 048 | 086 | 074 | 068 | 054 | 071 | 073 | 042 | 038 | 069 | 064 | 056 | 053 |
| D | 23 | 082 | 099 | 093 | 059 | 084 | 054 | 043 | 061 | 123 | 123 | 076 | 304 | 185 | 132 | 222 | 264 | 251 | 170 | 093 | 040 | 031 | 042 | 041 | 055 | 114 |
| | 24 | 073 | 080 | 066 | 061 | 040 | 036 | 032 | 026 | 029 | 037 | 031 | 018 | 070 | 075 | 085 | 125 | 125 | 070 | 084 | 100 | 072 | 066 | 088 | 073 | 065 |
| | 25 | 053 | 072 | 071 | 054 | 060 | 134 | 120 | 104 | 113 | 098 | 054 | 061 | 065 | 120 | 087 | 055 | 047 | 045 | 057 | 039 | 061 | 107 | 071 | 078 | 076 |
| | 26 | 083 | 073 | 130 | 079 | 040 | 040 | 024 | 027 | 036 | 062 | 075 | 072 | 062 | 055 | 066 | 043 | 026 | 034 | 028 | 023 | 022 | 023 | 025 | 028 | 049 |
| Q | 27 | 030 | 024 | 024 | 022 | 034 | 010 | 016 | 030 | 024 | 023 | 019 | 021 | 025 | 022 | 040 | 052 | 034 | 018 | 021 | 028 | 024 | 030 | 043 | 036 | 027 |
| | 28 | 031 | 034 | 039 | 046 | 041 | 030 | 033 | 024 | 020 | 032 | 027 | 024 | 030 | 029 | 041 | 021 | 031 | 036 | 048 | 128 | 079 | 103 | 073 | 075 | 045 |
| | MEAN | 086 | 077 | 079 | 072 | 073 | 077 | 082 | 083 | 092 | 083 | 080 | 094 | 080 | 078 | 074 | 081 | 088 | 096 | 086 | 076 | 077 | 079 | 081 | 078 | 081 |
| SQ | MEAN | 044 | 044 | 048 | 044 | 051 | 046 | 033 | 041 | 058 | 051 | 043 | 037 | 030 | 035 | 039 | 039 | 044 | 034 | 036 | 038 | 044 | 043 | 047 | 054 | 042 |
| SD | MEAN | 144 | 130 | 117 | 082 | 119 | 147 | 150 | 140 | 178 | 140 | 129 | 177 | 133 | 129 | 127 | 163 | 162 | 182 | 146 | 096 | 108 | 114 | 104 | 111 | 134 |

MARCH 1975 AU INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 040 | 106 | 029 | 046 | 042 | 042 | 066 | 133 | 103 | 051 | 133 | 096 | 059 | 069 | 033 | 026 | 051 | 100 | 155 | 159 | 136 | 129 | 079 | 044 | 080 |
| | 02 | 051 | 085 | 068 | 058 | 053 | 033 | 042 | 025 | 061 | 079 | 043 | 037 | 031 | 024 | 027 | 026 | 022 | 040 | 032 | 038 | 039 | 053 | 055 | 051 | 045 |
| | 03 | 041 | 027 | 023 | 026 | 039 | 016 | 036 | 026 | 014 | 013 | 011 | 019 | 033 | 059 | 060 | 051 | 050 | 045 | 042 | 029 | 103 | 059 | 061 | 063 | 039 |
| | 04 | 048 | 049 | 069 | 067 | 064 | 040 | 039 | 041 | 029 | 053 | 053 | 049 | 030 | 041 | 034 | 018 | 013 | 015 | 029 | 020 | 029 | 036 | 053 | 093 | 042 |
| | 05 | 057 | 090 | 098 | 060 | 046 | 239 | 191 | 205 | 154 | 184 | 224 | 197 | 152 | 058 | 082 | 167 | 164 | 180 | 149 | 121 | 141 | 067 | 103 | 106 | 135 |
| | 06 | 087 | 074 | 051 | 037 | 040 | 066 | 084 | 153 | 134 | 193 | 143 | 132 | 151 | 100 | 101 | 100 | 244 | 279 | 184 | 046 | 075 | 069 | 042 | 046 | 110 |
| Q | 07 | 026 | 019 | 010 | 007 | 012 | 013 | 012 | 009 | 006 | 012 | 007 | 013 | 008 | 007 | 011 | 009 | 010 | 010 | 009 | 008 | 014 | 013 | 009 | 012 | 011 |
| Q | 08 | 014 | 008 | 010 | 010 | 011 | 010 | 010 | 009 | 009 | 007 | 007 | 008 | 009 | 008 | 011 | 013 | 013 | 013 | 007 | 013 | 017 | 015 | 012 | 011 | 011 |
| | 09 | 010 | 010 | 010 | 018 | 037 | 038 | 037 | 015 | 015 | 012 | 012 | 009 | 014 | 010 | 018 | 026 | 024 | 027 | 021 | 025 | 059 | 044 | 065 | 100 | 027 |
| D | 10 | 049 | 181 | 216 | 147 | 182 | 091 | 327 | 340 | 275 | 285 | 155 | 281 | 272 | 230 | 248 | 359 | 185 | 213 | 178 | 089 | 135 | 014 | -014 | 000 | 185 |
| D | 11 | 012 | 137 | 259 | 159 | 149 | 146 | 134 | 235 | 130 | 153 | 198 | 111 | 104 | 135 | 183 | 129 | 161 | 111 | 076 | 151 | 106 | 188 | 117 | 136 | 143 |
| D | 12 | 103 | 054 | 032 | 081 | 146 | 130 | 067 | 105 | 148 | 181 | 163 | 155 | 124 | 130 | 134 | 256 | 169 | 174 | 194 | 163 | 187 | 145 | 132 | 027 | 133 |
| | 13 | 055 | 009 | 068 | 100 | 039 | 068 | 067 | 050 | 106 | 131 | 078 | 064 | 068 | 128 | 117 | 131 | 115 | 209 | 193 | 165 | 113 | 065 | 152 | 062 | 098 |
| | 14 | 044 | 044 | 021 | 012 | 048 | 061 | 120 | 113 | 154 | 050 | 096 | 099 | 094 | 137 | 181 | 097 | 158 | 134 | 118 | 129 | 121 | 097 | 184 | 115 | 101 |
| | 15 | 104 | 106 | 090 | 093 | 041 | 068 | 088 | 089 | 147 | 098 | 091 | 127 | 133 | 071 | 078 | 156 | 125 | 074 | 130 | 104 | 060 | 099 | 101 | 100 | 099 |
| | 16 | 071 | 077 | 059 | 065 | 038 | 060 | 076 | 114 | 181 | 182 | 130 | 168 | 175 | 220 | 091 | 117 | 180 | 128 | 044 | 038 | 043 | 045 | 036 | 087 | 101 |
| | 17 | 098 | 086 | 106 | 063 | 056 | 041 | 050 | 068 | 160 | 150 | 117 | 114 | 080 | 024 | 031 | 053 | 060 | 044 | 040 | 038 | 048 | 066 | 077 | 130 | 075 |
| | 18 | 115 | 144 | 108 | 040 | 031 | 019 | 017 | 059 | 121 | 119 | 092 | 132 | 105 | 080 | 101 | 130 | 248 | 195 | 248 | 205 | 145 | 172 | 081 | 081 | 116 |
| | 19 | 064 | 077 | 100 | 073 | 050 | 076 | 033 | 046 | 068 | 098 | 131 | 100 | 070 | 151 | 101 | 082 | 052 | 075 | 125 | 122 | 106 | 118 | 076 | 074 | 086 |
| | 20 | 105 | 044 | 044 | 043 | 038 | 105 | 108 | 207 | 215 | 163 | 124 | 114 | 116 | 157 | 152 | 183 | 121 | 168 | 140 | 136 | 106 | 071 | 093 | 061 | 117 |
| Q | 21 | 043 | 033 | 036 | 019 | 022 | 025 | 009 | 014 | 011 | 011 | 021 | 035 | 025 | 011 | 006 | 008 | 006 | 005 | 016 | 016 | 015 | 014 | 013 | 013 | 018 |
| Q | 22 | 014 | 014 | 012 | 009 | 013 | 010 | 010 | 018 | 012 | 023 | 020 | 016 | 012 | 015 | 011 | 012 | 013 | 021 | 023 | 022 | 021 | 022 | 036 | 066 | 019 |
| | 23 | 081 | 079 | 070 | 082 | 129 | 281 | 306 | 214 | 132 | 076 | 081 | 100 | 062 | 062 | 033 | 046 | 028 | 027 | 027 | 048 | 030 | 026 | 054 | 030 | 088 |
| | 24 | 020 | 015 | 031 | 026 | 041 | 050 | 040 | 031 | 075 | 107 | 183 | 252 | 193 | 187 | 260 | 253 | 130 | 138 | 072 | 059 | 055 | 046 | 033 | 026 | 097 |
| Q | 25 | 020 | 049 | 044 | 057 | 023 | 040 | 051 | 070 | 043 | 028 | 044 | 049 | 080 | 047 | 008 | 010 | 037 | 042 | 029 | 020 | 025 | 019 | 014 | 024 | 036 |
| | 26 | 026 | 014 | 023 | 038 | 035 | 064 | 044 | 062 | 054 | 134 | 207 | 222 | 231 | 103 | 041 | 031 | 021 | 044 | 115 | 117 | 088 | 059 | 035 | 068 | 078 |
| D | 27 | 075 | 074 | 098 | 065 | 063 | 037 | 027 | 042 | 094 | 118 | 112 | 137 | 133 | 106 | 115 | 323 | 228 | 073 | 237 | 201 | 112 | 076 | 052 | 079 | 112 |
| D | 28 | 054 | 049 | 046 | 045 | 025 | 104 | 099 | 203 | 175 | 089 | 086 | 132 | 118 | 188 | 113 | 121 | 114 | 080 | 171 | 131 | 114 | 070 | 100 | 053 | 103 |
| | 29 | 040 | 063 | 078 | 057 | 047 | 090 | 148 | 088 | 154 | 118 | 165 | 161 | 127 | 116 | 057 | 075 | 070 | 184 | 093 | 076 | 037 | 053 | 063 | 042 | 092 |
| | 30 | 067 | 040 | 044 | 042 | 026 | 017 | 021 | 038 | 043 | 050 | 083 | 077 | 044 | 040 | 049 | 026 | 026 | 020 | 057 | 044 | 090 | 095 | 047 | 091 | 049 |
| | 31 | 095 | 101 | 055 | 061 | 067 | 057 | 064 | 042 | 060 | 030 | 027 | 071 | 088 | 091 | 039 | 055 | 074 | 092 | 176 | 119 | 044 | 028 | 027 | 066 | 068 |
| | MEAN | 056 | 063 | 065 | 055 | 053 | 069 | 078 | 092 | 099 | 097 | 098 | 106 | 095 | 090 | 081 | 100 | 094 | 095 | 101 | 086 | 078 | 067 | 064 | 063 | 081 |
| 5Q | MEAN | 023 | 025 | 022 | 020 | 016 | 020 | 018 | 024 | 016 | 016 | 020 | 024 | 027 | 018 | 009 | 010 | 016 | 018 | 017 | 016 | 018 | 017 | 017 | 025 | 018 |
| 5D | MEAN | 059 | 099 | 130 | 099 | 113 | 102 | 131 | 185 | 164 | 165 | 143 | 163 | 150 | 158 | 159 | 238 | 171 | 130 | 171 | 147 | 131 | 099 | 077 | 059 | 135 |

APRIL 1975 AU INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -005 | 036 | 015 | 013 | 013 | 013 | 031 | 067 | 040 | 078 | 052 | 046 | 029 | 030 | 026 | 029 | 035 | 061 | 040 | 027 | 030 | 039 | 041 | 022 | 034 |
| | 02 | 017 | 018 | 016 | 013 | 018 | 016 | 013 | 011 | 008 | 009 | 008 | 010 | 011 | 008 | 001 | 006 | 013 | 017 | 024 | 032 | 040 | 077 | 064 | 055 | 021 |
| | 03 | 073 | 042 | 045 | 047 | 019 | 019 | 019 | 016 | 041 | 037 | 033 | 032 | 012 | 012 | 045 | 044 | 024 | 014 | 032 | 048 | 073 | 072 | 047 | 034 | 037 |
| | 04 | 026 | 024 | 056 | 021 | 006 | 021 | 015 | 019 | 062 | 099 | 097 | 070 | 040 | 086 | 066 | 043 | 031 | 036 | 030 | 049 | 114 | 108 | 092 | 113 | 055 |
| | 05 | 038 | 058 | 060 | 042 | 017 | 008 | 011 | 022 | 055 | 052 | 034 | 050 | 011 | 011 | 004 | 021 | 043 | 140 | 208 | 095 | 116 | 113 | 110 | 080 | 058 |
| | 06 | 081 | 026 | 040 | 042 | 012 | 016 | 041 | 054 | 131 | 152 | 147 | 105 | 092 | 065 | 080 | 127 | 073 | 033 | 032 | 038 | 090 | 179 | 110 | 073 | 077 |
| | 07 | 070 | 035 | 041 | 014 | 031 | 044 | 036 | 033 | 025 | 036 | 047 | 137 | 219 | 113 | 038 | 060 | 048 | 132 | 252 | 198 | 243 | 142 | 053 | 166 | 092 |
| D | 08 | 092 | 038 | 086 | 134 | 062 | 084 | 083 | 079 | 137 | 148 | 163 | 168 | 177 | 125 | 295 | 291 | 311 | 291 | 243 | 304 | 136 | 058 | 039 | 033 | 149 |
| D | 09 | 044 | 054 | 126 | 259 | 165 | 243 | 202 | 260 | 168 | 200 | 210 | 163 | 155 | 145 | 130 | 153 | 200 | 210 | 224 | 283 | 239 | 251 | 151 | 131 | 182 |
| D | 10 | -001 | 094 | 184 | 157 | 179 | 231 | 171 | 108 | 125 | 173 | 104 | 174 | 152 | 131 | 049 | 075 | 071 | 229 | 231 | 104 | 079 | 163 | 110 | 119 | 134 |
| D | 11 | 111 | 059 | 084 | 069 | 109 | 093 | 100 | 121 | 115 | 189 | 144 | 154 | 244 | 150 | 093 | 149 | 146 | 140 | 171 | 120 | 088 | 086 | 141 | 117 | 125 |
| | 12 | 105 | 097 | 092 | 046 | 049 | 085 | 114 | 061 | 096 | 214 | 240 | 255 | 172 | 076 | 079 | 131 | 114 | 125 | 116 | 082 | 066 | 160 | 147 | 067 | 116 |
| D | 13 | 035 | 116 | 183 | 100 | 070 | 058 | 098 | 197 | 104 | 099 | 093 | 069 | 097 | 077 | 099 | 069 | 049 | 054 | 084 | 180 | 132 | 147 | 159 | 122 | 104 |
| | 14 | 101 | 094 | 040 | 010 | 131 | 093 | 059 | 034 | 036 | 096 | 076 | 076 | 085 | 093 | 085 | 059 | 110 | 086 | 083 | 125 | 082 | 091 | 073 | 059 | 078 |
| | 15 | 044 | 066 | 035 | 027 | 025 | 014 | 019 | 023 | 043 | 054 | 065 | 053 | 051 | 040 | 038 | 037 | 078 | 116 | 096 | 090 | 102 | 080 | 069 | 072 | 056 |
| | 16 | 115 | 114 | 070 | 077 | 024 | 041 | 016 | 030 | 065 | 042 | 059 | 085 | 040 | 014 | 010 | 020 | 029 | 036 | 047 | 042 | 039 | 022 | 014 | 020 | 045 |
| Q | 17 | 022 | 025 | 027 | 019 | 016 | 023 | 016 | 018 | 018 | 055 | 037 | 040 | 062 | 038 | 020 | 031 | 078 | 091 | 046 | 032 | 023 | 021 | 020 | 023 | 033 |
| | 18 | 021 | 018 | 021 | 024 | 032 | 027 | 016 | 020 | 019 | 012 | 033 | 107 | 145 | 072 | 071 | 034 | 026 | 049 | 107 | 097 | 051 | 039 | 054 | 105 | 050 |
| Q | 19 | 125 | 099 | 091 | 054 | 033 | 012 | 015 | 026 | 053 | 095 | 064 | 084 | 122 | 081 | 088 | 039 | 034 | 046 | 028 | 023 | 022 | 022 | 023 | 029 | 055 |
| | 20 | 025 | 024 | 024 | 023 | 016 | 022 | 018 | 026 | 071 | 120 | 141 | 072 | 060 | 140 | 087 | 145 | 219 | 352 | 311 | 349 | 174 | 312 | 251 | 115 | 129 |
| | 21 | 124 | 084 | 064 | 048 | 034 | 037 | 029 | 030 | 039 | 047 | 075 | 119 | 100 | 072 | 042 | 159 | 128 | 102 | 150 | 098 | 037 | 041 | 046 | 024 | 072 |
| | 22 | 071 | 063 | 046 | 024 | 036 | 077 | 088 | 075 | 075 | 043 | 045 | 032 | 029 | 075 | 057 | 041 | 033 | 049 | 111 | 113 | 102 | 106 | 152 | 087 | 068 |
| | 23 | 091 | 103 | 076 | 067 | 062 | 054 | 099 | 091 | 177 | 150 | 230 | 103 | 090 | 052 | 043 | 102 | 239 | 181 | 143 | 148 | 144 | 156 | 093 | 065 | 115 |
| | 24 | 107 | 061 | 058 | 042 | 044 | 054 | 076 | 109 | 049 | 080 | 174 | 099 | 064 | 033 | 046 | 047 | 048 | 103 | 116 | 092 | 127 | 099 | 115 | 081 | 080 |
| | 25 | 047 | 054 | 039 | 052 | 022 | 030 | 041 | 026 | 074 | 082 | 032 | 022 | 041 | 053 | 073 | 041 | 051 | 053 | 042 | 031 | 025 | 028 | 033 | 101 | 046 |
| | 26 | 123 | 089 | 060 | 028 | 018 | 019 | 016 | 015 | 018 | 035 | 055 | 045 | 038 | 027 | 030 | 031 | 057 | 072 | 084 | 071 | 076 | 072 | 053 | 042 | 049 |
| Q | 27 | 051 | 022 | 037 | 056 | 034 | 042 | 030 | 016 | 020 | 036 | 067 | 046 | 053 | 024 | 028 | 021 | 024 | 026 | 036 | 030 | 027 | 029 | 032 | 027 | 034 |
| Q | 28 | 036 | 044 | 031 | 032 | 026 | 024 | 017 | 022 | 019 | 015 | 017 | 014 | 022 | 017 | 013 | 012 | 016 | 011 | 022 | 033 | 029 | 040 | 057 | 037 | 025 |
| Q | 29 | 030 | 024 | 017 | 016 | 017 | 021 | 025 | 024 | 022 | 036 | 052 | 033 | 027 | 018 | 013 | 015 | 020 | 029 | 032 | 025 | 024 | 022 | 026 | 029 | 025 |
| | 30 | 024 | 023 | 023 | 024 | 029 | 028 | 020 | 035 | 106 | 121 | 081 | 030 | 030 | 031 | 053 | 055 | 041 | 039 | 030 | 045 | 046 | 054 | 105 | 082 | 048 |
| | MEAN | 061 | 057 | 060 | 053 | 045 | 052 | 051 | 056 | 067 | 087 | 089 | 083 | 082 | 064 | 060 | 070 | 080 | 097 | 106 | 100 | 086 | 094 | 083 | 071 | 073 |
| Q | MEAN | 053 | 043 | 041 | 035 | 025 | 024 | 021 | 021 | 026 | 047 | 047 | 043 | 057 | 036 | 032 | 024 | 034 | 041 | 033 | 029 | 025 | 027 | 032 | 029 | 034 |
| D | MEAN | 056 | 072 | 133 | 144 | 117 | 142 | 131 | 153 | 130 | 162 | 143 | 146 | 165 | 126 | 133 | 147 | 155 | 185 | 191 | 198 | 135 | 141 | 120 | 104 | 138 |

MAY 1975 AU INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 052 | 033 | 026 | 021 | 034 | 038 | 034 | 053 | 111 | 126 | 086 | 059 | 062 | 087 | 112 | 086 | 081 | 097 | 141 | 165 | 098 | 083 | 066 | 069 | 076 |
| | 02 | 076 | 096 | 088 | 096 | 070 | 063 | 086 | 111 | 139 | 156 | 106 | 096 | 124 | 151 | 167 | 145 | 186 | 212 | 220 | 220 | 150 | 102 | 176 | 172 | 134 |
| | 03 | 200 | 207 | 108 | 130 | 182 | 155 | 178 | 163 | 095 | 069 | 114 | 260 | 204 | 195 | 145 | 070 | 042 | 067 | 077 | 113 | 101 | 104 | 129 | 177 | 137 |
| | 04 | 140 | 113 | 068 | 058 | 058 | 071 | 083 | 117 | 093 | 086 | 101 | 090 | 124 | 085 | 046 | 052 | 027 | 065 | 114 | 095 | 114 | 190 | 238 | 194 | 101 |
| D | 05 | 115 | 194 | 185 | 124 | 200 | 142 | 112 | 278 | 200 | 209 | 248 | 162 | 142 | 104 | 079 | 062 | 045 | 211 | 202 | 193 | 268 | 305 | 212 | 192 | 174 |
| D | 06 | 216 | 115 | 131 | 345 | 205 | 123 | 136 | 189 | 209 | 238 | 113 | 144 | 133 | 104 | 119 | 087 | 161 | 132 | 127 | 130 | 139 | 198 | 125 | 152 | 157 |
| D | 07 | 109 | 081 | 083 | 045 | 035 | 027 | 050 | 129 | 108 | 117 | 169 | 173 | 121 | 138 | 293 | 254 | 184 | 120 | 184 | 098 | 052 | 081 | 138 | 107 | 121 |
| | 08 | 080 | 095 | 076 | 057 | 030 | 021 | 039 | 064 | 098 | 099 | 106 | 109 | 088 | 061 | 053 | 031 | 047 | 079 | 144 | 161 | 240 | 201 | 177 | 095 | 094 |
| | 09 | 133 | 109 | 126 | 086 | 066 | 021 | 082 | 086 | 075 | 128 | 144 | 073 | 092 | 106 | 119 | 143 | 094 | 098 | 162 | 116 | 106 | 125 | 116 | 185 | 108 |
| | 10 | 158 | 161 | 180 | 194 | 198 | 168 | 192 | 165 | 111 | 091 | 092 | 076 | 138 | 094 | 080 | 073 | 067 | 081 | 078 | 141 | 150 | 149 | 088 | 045 | 124 |
| Q | 11 | 031 | 022 | 026 | 023 | 020 | 029 | 038 | 016 | 019 | 022 | 022 | 015 | 025 | 035 | 014 | 017 | 017 | 021 | 028 | 033 | 024 | 020 | 017 | 014 | 023 |
| Q | 12 | 012 | 014 | 020 | 028 | 033 | 013 | 014 | 008 | 010 | 015 | 016 | 014 | 015 | 015 | 015 | 022 | 027 | 032 | 022 | 026 | 026 | 021 | 021 | 021 | 019 |
| | 13 | 020 | 028 | 037 | 043 | 035 | 030 | 038 | 020 | 038 | 089 | 103 | 094 | 035 | 036 | 023 | 015 | 019 | 042 | 059 | 136 | 184 | 181 | 208 | 220 | 072 |
| | 14 | 157 | 112 | 173 | 185 | 158 | 225 | 193 | 178 | 130 | 209 | 252 | 295 | 193 | 100 | 073 | 051 | 067 | 071 | 080 | 147 | 112 | 125 | 090 | 048 | 143 |
| Q | 15 | 036 | 030 | 037 | 037 | 028 | 015 | 034 | 032 | 026 | 022 | 024 | 011 | 031 | 043 | 036 | 045 | 035 | 032 | 031 | 029 | 025 | 020 | 021 | 024 | 029 |
| D | 16 | 025 | 033 | 045 | 099 | 087 | 093 | 223 | 414 | 286 | 212 | 105 | 108 | 231 | 137 | 113 | 096 | 078 | 187 | 129 | 105 | 073 | 107 | 194 | 138 | 138 |
| | 17 | 146 | 079 | 080 | 071 | 099 | 210 | 093 | 068 | 180 | 111 | 094 | 086 | 080 | 144 | 111 | 071 | 055 | 073 | 046 | 038 | 036 | 038 | 036 | 045 | 087 |
| | 18 | 061 | 050 | 057 | 041 | 034 | 039 | 059 | 086 | 082 | 081 | 126 | 060 | 080 | 076 | 048 | 039 | 053 | 059 | 069 | 085 | 066 | 085 | 085 | 106 | 068 |
| | 19 | 135 | 133 | 121 | 134 | 075 | 126 | 079 | 164 | 175 | 113 | 084 | 032 | 025 | 022 | 029 | 035 | 035 | 035 | 037 | 093 | 148 | 108 | 062 | 069 | 086 |
| D | 20 | 081 | 178 | 108 | 175 | 188 | 203 | 229 | 159 | 272 | 393 | 081 | 051 | 036 | 018 | 036 | 068 | 112 | 062 | 067 | 050 | 032 | 029 | 041 | 043 | 113 |
| | 21 | 052 | 047 | -002 | 027 | 022 | 033 | 037 | 049 | 075 | 077 | 080 | 124 | 099 | 143 | 096 | 061 | 037 | 034 | 043 | 138 | 122 | 125 | 081 | 049 | 069 |
| | 22 | 063 | 045 | 030 | 016 | 049 | 021 | 057 | 135 | 161 | 145 | 186 | 076 | 085 | 125 | 097 | 080 | 054 | 077 | 065 | 053 | 053 | 060 | 123 | 109 | 082 |
| | 23 | 050 | 031 | 018 | 017 | 029 | 063 | 093 | 071 | 067 | 164 | 081 | 092 | 052 | 033 | 029 | 032 | 035 | 044 | 107 | 122 | 073 | 050 | 038 | 049 | 060 |
| | 24 | 044 | 030 | 036 | 029 | 027 | 026 | 052 | 035 | 024 | 085 | 088 | 089 | 047 | 042 | 046 | 026 | 035 | 041 | 039 | 037 | 035 | 063 | 094 | 109 | 049 |
| | 25 | 096 | 098 | 068 | 071 | 060 | 049 | 023 | 017 | 053 | 088 | 093 | 075 | 092 | 082 | 079 | 094 | 081 | 148 | 259 | 282 | 326 | 271 | 258 | 222 | 124 |
| | 26 | 189 | 164 | 243 | 143 | 162 | 135 | 116 | 162 | 172 | 128 | 141 | 121 | 070 | 051 | 040 | 038 | 052 | 038 | 048 | 033 | 044 | 042 | 038 | 033 | 100 |
| | 27 | 031 | 030 | 033 | 039 | 057 | 022 | 039 | 086 | 094 | 104 | 119 | 092 | 099 | 099 | 103 | 070 | 083 | 079 | 117 | 137 | 176 | 128 | 071 | 059 | 082 |
| Q | 28 | 060 | 050 | 063 | 047 | 027 | 026 | 017 | 013 | 030 | 018 | 028 | 023 | 016 | 013 | 014 | 040 | 042 | 032 | 051 | 039 | 020 | 024 | 023 | 024 | 031 |
| | 29 | 036 | 116 | 108 | 093 | 027 | 051 | 158 | 173 | 192 | 198 | 123 | 048 | 045 | 034 | 030 | 071 | 157 | 251 | 184 | 170 | 158 | 143 | 059 | 075 | 113 |
| | 30 | 100 | 054 | 027 | 024 | 028 | 056 | 084 | 079 | 080 | 082 | 056 | 082 | 081 | 082 | 106 | 041 | 031 | 034 | 024 | 037 | 056 | 066 | 090 | 106 | 063 |
| Q | 31 | 064 | 064 | 043 | 053 | 027 | 020 | 019 | 019 | 021 | 022 | 024 | 022 | 035 | 045 | 053 | 053 | 035 | 045 | 054 | 066 | 078 | 068 | 079 | 067 | 045 |
| | MEAN | 089 | 084 | 079 | 082 | 076 | 075 | 087 | 108 | 111 | 119 | 103 | 092 | 087 | 081 | 078 | 067 | 067 | 084 | 097 | 106 | 106 | 107 | 103 | 097 | 091 |
| 5Q | MEAN | 041 | 036 | 038 | 038 | 027 | 021 | 024 | 018 | 021 | 020 | 023 | 017 | 024 | 030 | 026 | 035 | 031 | 032 | 037 | 039 | 035 | 031 | 032 | 030 | 029 |
| 5D | MEAN | 109 | 120 | 110 | 158 | 143 | 118 | 150 | 234 | 215 | 234 | 143 | 128 | 133 | 100 | 128 | 113 | 116 | 142 | 142 | 115 | 113 | 144 | 142 | 126 | 140 |

JUNE 1975 AU INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | 102 | 070 | 052 | 041 | 027 | 046 | 077 | 068 | 101 | 086 | 127 | 133 | 188 | 144 | 092 | 138 | 214 | 182 | 249 | 190 | 130 | 196 | 138 | 202 | 125 |
| D | 02 | 184 | 194 | 161 | 261 | 457 | 189 | 093 | 181 | 271 | 223 | 090 | 082 | 064 | 123 | 102 | 145 | 189 | 128 | 104 | 116 | 157 | 210 | 109 | 097 | 164 |
| | 03 | 106 | 093 | 089 | 051 | 054 | 123 | 106 | 096 | 137 | 124 | 107 | 095 | 122 | 143 | 083 | 032 | 060 | 047 | 096 | 160 | 131 | 104 | 098 | 123 | 099 |
| | 04 | 099 | 114 | 133 | 066 | 117 | 091 | 134 | 181 | 115 | 094 | 090 | 086 | 057 | 041 | 052 | 071 | 097 | 110 | 077 | 081 | 114 | 144 | 092 | 111 | 099 |
| | 05 | 048 | 086 | 044 | 079 | 114 | 051 | 038 | 123 | 088 | 057 | 059 | 095 | 042 | 073 | 093 | 057 | 075 | 108 | 167 | 134 | 119 | 043 | 024 | 064 | 078 |
| | 06 | 034 | 082 | 180 | 146 | 159 | 193 | 102 | 100 | 180 | 139 | 083 | 060 | 060 | 061 | 089 | 091 | 073 | 110 | 152 | 097 | 052 | 067 | 085 | 024 | 101 |
| | 07 | 119 | 096 | 055 | 069 | 053 | 074 | 124 | 110 | 162 | 071 | 074 | 051 | 023 | 028 | 019 | 051 | 038 | 025 | 028 | 041 | 101 | 123 | 059 | 047 | 068 |
| Q | 08 | 041 | 035 | 044 | 031 | 032 | 048 | 089 | 066 | 071 | 070 | 074 | 076 | 055 | 057 | 053 | 052 | 031 | 039 | 021 | 016 | 037 | 055 | 083 | 075 | 052 |
| | 09 | 040 | 046 | 110 | 103 | 069 | 042 | 030 | 054 | 053 | 079 | 073 | 053 | 055 | 044 | 016 | 018 | 031 | 032 | 025 | 023 | 019 | 041 | 040 | 031 | 047 |
| Q | 10 | 043 | 070 | 061 | 058 | 046 | 036 | 035 | 059 | 068 | 054 | 073 | 087 | 098 | 105 | 080 | 040 | 085 | 073 | 060 | 063 | 075 | 071 | 089 | 113 | 068 |
| | 11 | 122 | 121 | 099 | 099 | 130 | 250 | 265 | 269 | 237 | 304 | 264 | 251 | 134 | 068 | 058 | 051 | 047 | 050 | 111 | 076 | 113 | 110 | 126 | 113 | 145 |
| D | 12 | 091 | 084 | 040 | 061 | 035 | 035 | 096 | 159 | 153 | 138 | 277 | 211 | 199 | 131 | 101 | 075 | 154 | 295 | 200 | 198 | 129 | 209 | 140 | 085 | 137 |
| | 13 | 079 | 143 | 104 | 071 | 160 | 200 | 096 | 070 | 123 | 133 | 122 | 160 | 147 | 121 | 115 | 080 | 043 | 113 | 155 | 136 | 107 | 115 | 107 | 068 | 115 |
| | 14 | 058 | 042 | 054 | 042 | 044 | 076 | 132 | 105 | 093 | 153 | 111 | 102 | 124 | 114 | 074 | 052 | 046 | 066 | 121 | 101 | 063 | 046 | 037 | 051 | 079 |
| | 15 | 047 | 077 | 060 | 050 | 064 | 080 | 114 | 135 | 176 | 225 | 110 | 054 | 037 | 053 | 077 | 142 | 171 | 139 | 138 | 058 | 136 | 171 | 149 | 140 | 108 |
| | 16 | 188 | 171 | 159 | 195 | 179 | 168 | 150 | 126 | 192 | 255 | 322 | 216 | 080 | 125 | 139 | 150 | 097 | 133 | 130 | 091 | 086 | 111 | 177 | 081 | 155 |
| | 17 | 081 | 073 | 063 | 055 | 037 | 045 | 077 | 076 | 129 | 202 | 093 | 086 | 166 | 065 | 075 | 072 | 090 | 061 | 087 | 115 | 148 | 124 | 138 | 156 | 096 |
| | 18 | 182 | 165 | 144 | 131 | 175 | 152 | 113 | 068 | 033 | 070 | 058 | 073 | 085 | 073 | 094 | 109 | 092 | 099 | 100 | 087 | 088 | 062 | 036 | 076 | 099 |
| | 19 | 083 | 076 | 075 | 055 | 065 | 086 | 132 | 167 | 144 | 114 | 125 | 137 | 140 | 093 | 074 | 049 | 043 | 068 | 122 | 124 | 066 | 084 | 116 | 116 | 098 |
| | 20 | 061 | 076 | 064 | 038 | 026 | 034 | 041 | 038 | 058 | 047 | 056 | 110 | 118 | 062 | 039 | 030 | 032 | 046 | 053 | 122 | 135 | 113 | 078 | 076 | 065 |
| | 21 | 052 | 040 | 132 | 152 | 057 | 028 | 029 | 081 | 150 | 152 | 126 | 063 | 091 | 090 | 091 | 101 | 108 | 139 | 162 | 123 | 135 | 129 | 127 | 125 | 103 |
| | 22 | 095 | 099 | 097 | 091 | 100 | 079 | 081 | 099 | 114 | 110 | 118 | 124 | 109 | 063 | 026 | 025 | 030 | 028 | 041 | 063 | 077 | 051 | 027 | 048 | 075 |
| Q | 23 | 038 | 031 | 039 | 051 | 060 | 062 | 044 | 025 | 018 | 014 | 022 | 052 | 059 | 049 | 023 | 033 | 030 | 025 | 056 | 024 | 028 | 052 | 065 | 056 | 040 |
| Q | 24 | 024 | 017 | 006 | 009 | 012 | 011 | 027 | 054 | 068 | 099 | 105 | 071 | 041 | 025 | 022 | 022 | 025 | 034 | 044 | 044 | 029 | 024 | 027 | 027 | 036 |
| | 25 | 039 | 036 | 034 | 033 | 039 | 042 | 040 | 056 | 060 | 048 | 048 | 076 | 058 | 054 | 080 | 087 | 053 | 054 | 085 | 137 | 167 | 138 | 184 | 145 | 075 |
| | 26 | 146 | 131 | 126 | 108 | 127 | 075 | 091 | 079 | 071 | 064 | 052 | 094 | 114 | 073 | 047 | 047 | 034 | 035 | 038 | 051 | 056 | 039 | 039 | 034 | 074 |
| Q | 27 | 037 | 045 | 045 | 056 | 056 | 039 | 025 | 026 | 028 | 030 | 029 | 031 | 033 | 030 | 031 | 033 | 019 | 042 | 037 | 034 | 030 | 050 | 069 | 074 | 039 |
| | 28 | 080 | 053 | 020 | 019 | 029 | 030 | 091 | 093 | 058 | 057 | 066 | 082 | 096 | 082 | 062 | 043 | 025 | 026 | 029 | 031 | 030 | 026 | 051 | 059 | 052 |
| D | 29 | 061 | 061 | 107 | 074 | 073 | 091 | 092 | 050 | 082 | 059 | 060 | 051 | 054 | 080 | 128 | 118 | 310 | 155 | 149 | 267 | 355 | 277 | 127 | 220 | 129 |
| D | 30 | 191 | 213 | 217 | 191 | 212 | 080 | 092 | 167 | 142 | 116 | 208 | 120 | 080 | 052 | 059 | 053 | 090 | 108 | 158 | 141 | 130 | 200 | 172 | 151 | 139 |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MEAN | 086 | 088 | 087 | 083 | 094 | 085 | 089 | 099 | 113 | 113 | 107 | 099 | 091 | 077 | 070 | 069 | 081 | 086 | 100 | 098 | 101 | 106 | 094 | 093 | 092 |
| 5Q | MEAN | 037 | 040 | 039 | 041 | 041 | 039 | 044 | 046 | 051 | 053 | 061 | 063 | 057 | 053 | 042 | 036 | 038 | 043 | 044 | 036 | 040 | 050 | 067 | 069 | 047 |
| 5D | MEAN | 126 | 124 | 115 | 126 | 161 | 088 | 090 | 125 | 150 | 124 | 152 | 119 | 117 | 106 | 096 | 106 | 191 | 174 | 172 | 182 | 180 | 218 | 137 | 151 | 138 |

## 6. TABLES OF HOURLY AVERAGE AO INDICES

JANUARY 1975 AO INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -042 | 020 | 033 | -021 | -020 | 006 | 010 | 017 | 001 | -025 | -006 | 008 | 005 | -002 | -012 | -003 | -032 | 001 | 004 | -007 | -001 | 000 | -004 | -003 | -003 |
| Q | 02 | 000 | 000 | 001 | 008 | 010 | 010 | 006 | 004 | 004 | 001 | -005 | 000 | 002 | -001 | -021 | -022 | 003 | 004 | -023 | -062 | -026 | 011 | 011 | 009 | -003 |
| | 03 | 000 | 005 | 007 | 008 | 009 | 011 | 015 | 012 | -009 | -049 | -025 | -008 | -042 | -057 | 000 | 006 | 011 | -056 | -090 | -019 | 006 | 003 | 021 | -035 | -012 |
| D | 04 | -065 | -066 | -049 | -065 | -105 | -078 | -045 | -018 | 030 | -006 | -019 | -162 | -089 | -201 | -352 | -260 | -282 | -043 | 029 | 005 | -037 | -177 | -112 | -097 | -094 |
| | 05 | -007 | -034 | -077 | -008 | 000 | -043 | -017 | -107 | -090 | -079 | -049 | -125 | -195 | -005 | -020 | -140 | -174 | -134 | -080 | -082 | -192 | -127 | -017 | -018 | -076 |
| | 06 | -080 | -032 | -002 | -022 | -054 | 005 | 003 | 004 | -026 | -019 | -029 | -127 | -132 | -039 | -033 | -145 | -089 | -103 | -256 | -220 | -285 | -134 | -201 | -169 | -091 |
| D | 07 | -269 | -305 | -189 | -112 | -008 | 047 | -042 | 003 | 027 | -014 | -065 | -086 | -092 | -010 | 008 | 002 | -038 | -036 | -002 | -007 | -010 | -004 | -003 | 005 | -050 |
| D | 08 | 013 | 010 | -004 | -045 | -104 | -115 | -046 | 002 | -093 | 029 | -033 | -122 | -048 | -061 | -170 | -193 | -104 | -115 | -123 | -245 | -106 | 006 | -012 | -014 | -071 |
| | 09 | 011 | 006 | 007 | -016 | -048 | -070 | -027 | -018 | -053 | -080 | -035 | -029 | -038 | -010 | -027 | -025 | -046 | -092 | -036 | 000 | -002 | -027 | -017 | 000 | -028 |
| | 10 | -005 | -036 | -032 | -001 | -002 | -020 | -069 | -004 | -010 | -004 | -070 | 000 | 000 | 005 | 003 | -002 | -004 | -004 | -003 | -006 | -016 | -006 | -005 | -005 | -012 |
| Q | 11 | -017 | -004 | -016 | -018 | -004 | -004 | -032 | -012 | -017 | -034 | -055 | -013 | 000 | 001 | 000 | -004 | -003 | -008 | -013 | -017 | -013 | 000 | 000 | -001 | -012 |
| Q | 12 | -017 | -009 | -015 | -011 | -003 | 004 | 000 | 002 | 003 | 010 | 011 | 010 | 003 | 000 | 000 | -001 | 000 | 002 | -020 | -026 | 000 | 021 | 014 | 012 | -000 |
| D | 13 | 015 | -150 | -054 | -005 | -064 | -060 | 037 | 016 | 000 | -012 | 036 | 007 | 020 | -084 | -100 | 020 | 008 | -106 | -213 | -051 | -124 | -014 | -043 | 000 | -038 |
| D | 14 | 043 | 054 | -110 | -118 | -034 | -035 | 002 | -048 | -017 | -033 | -036 | -062 | -107 | -186 | -281 | -097 | -119 | -218 | -206 | -297 | -146 | -147 | -073 | -136 | -100 |
| | 15 | -146 | -062 | -013 | 030 | -005 | 030 | 039 | 016 | 011 | 015 | 019 | -022 | 017 | 021 | -010 | 014 | 014 | 020 | 035 | -021 | -150 | -158 | -010 | -127 | -018 |
| | 16 | -053 | 011 | 009 | 000 | 015 | 018 | 023 | 024 | 012 | 012 | 005 | -121 | -072 | -186 | -166 | -127 | -002 | 006 | -046 | -065 | -096 | -036 | -144 | -092 | -045 |
| | 17 | -031 | 034 | 000 | -041 | -071 | -012 | -039 | -049 | -116 | -085 | -078 | -032 | -180 | 007 | -002 | -046 | -003 | -141 | -124 | -039 | -062 | -174 | -138 | -132 | -065 |
| | 18 | -124 | 001 | 030 | 001 | -077 | -059 | 001 | -014 | 009 | -048 | -154 | -049 | 014 | -055 | -186 | -003 | -020 | 001 | -019 | -064 | -061 | -005 | -033 | 000 | -038 |
| | 19 | -015 | -036 | -062 | -015 | -006 | 024 | -003 | 001 | 032 | 026 | -014 | -060 | 038 | 012 | -024 | 000 | 007 | -027 | -076 | -032 | -006 | -007 | -014 | 016 | -010 |
| | 20 | 002 | -122 | -051 | 002 | -005 | 018 | 000 | -006 | 015 | 003 | 007 | 011 | 014 | 008 | 011 | 010 | -020 | -092 | -130 | -116 | -092 | 005 | -050 | 025 | -023 |
| | 21 | 021 | 029 | 022 | 010 | 007 | 004 | 002 | 004 | -004 | -017 | 000 | -005 | 001 | -023 | -034 | 000 | -007 | -064 | -125 | -040 | 007 | 006 | 003 | 002 | -008 |
| | 22 | 001 | 002 | 005 | 001 | -001 | -013 | -025 | -012 | 012 | 006 | 008 | 013 | 015 | 007 | -032 | 032 | -032 | -136 | -012 | -002 | 009 | -008 | -070 | -002 | -010 |
| | 23 | 028 | 068 | 046 | 020 | 011 | 001 | -020 | -016 | -004 | 006 | -015 | -018 | -007 | -091 | 000 | 008 | -080 | -083 | -040 | -022 | -143 | -017 | -012 | -058 | -018 |
| | 24 | -030 | -014 | -084 | -174 | -038 | 011 | 013 | 007 | 021 | 019 | -035 | -087 | -003 | 005 | 004 | 005 | -081 | -099 | -027 | -012 | -050 | -036 | 006 | 006 | -028 |
| Q | 25 | 005 | 005 | -008 | -003 | 006 | 004 | -001 | -002 | 005 | 003 | 006 | 009 | 013 | 011 | 012 | 010 | -089 | -099 | 000 | 004 | -015 | 005 | 008 | 000 | -005 |
| Q | 26 | -019 | -056 | 039 | 022 | 011 | 012 | 007 | 005 | -043 | 000 | 004 | -011 | -009 | -023 | 003 | 008 | -027 | 003 | -016 | -017 | 011 | 002 | 006 | 013 | -003 |
| | 27 | 009 | 010 | 001 | 011 | -023 | -018 | -063 | 016 | 020 | -036 | -024 | 026 | 040 | 042 | 006 | 005 | -102 | -075 | -036 | -144 | -002 | 044 | 020 | 004 | -011 |
| | 28 | -059 | -143 | -018 | 033 | 048 | 008 | 000 | -029 | -054 | -004 | 013 | -008 | -047 | 012 | 024 | 028 | -034 | -014 | -041 | -004 | 000 | 000 | 016 | 021 | -011 |
| | 29 | 021 | 021 | 008 | -014 | 029 | 029 | 024 | 022 | 024 | 025 | -009 | -081 | -057 | -001 | 003 | 003 | 007 | -001 | -020 | -043 | 005 | 008 | 004 | 006 | 001 |
| | 30 | 000 | 003 | 012 | 025 | 011 | -027 | -065 | -055 | 000 | 015 | 020 | 023 | 020 | 010 | 011 | -007 | 010 | 004 | -025 | -079 | -061 | -099 | -069 | -029 | -015 |
| | 31 | 005 | 008 | 008 | 008 | -007 | -029 | -022 | 013 | 008 | 011 | 009 | -109 | -056 | -001 | 004 | 005 | 003 | -146 | -022 | -042 | -196 | -014 | -036 | -007 | -025 |
| | MEAN | -026 | -025 | -018 | -016 | -017 | -011 | -011 | -007 | -010 | -011 | -020 | -040 | -031 | -029 | -045 | -030 | -043 | -060 | -057 | -057 | -060 | -035 | -031 | -026 | -030 |
| 5Q | MEAN | -010 | -013 | 000 | -000 | 004 | 005 | -004 | -001 | -010 | -004 | -008 | -001 | 002 | -002 | -001 | -002 | -023 | -020 | -014 | -024 | -009 | 008 | 008 | 007 | -004 |
| 5D | MEAN | -053 | -091 | -081 | -069 | -063 | -048 | -019 | -009 | -011 | -007 | -023 | -085 | -063 | -108 | -179 | -106 | -107 | -104 | -103 | -119 | -085 | -067 | -049 | -048 | -070 |

FEBRUARY 1975 AO INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | 021 | -022 | -079 | -143 | -138 | -091 | 003 | -012 | -075 | -039 | -090 | -393 | -277 | -165 | -124 | -051 | -150 | -269 | -257 | -073 | -068 | -104 | -087 | -126 | -117 |
| | 02 | -113 | -061 | -105 | -081 | 030 | -017 | -031 | -047 | 037 | 001 | -135 | -096 | -115 | -103 | -142 | -098 | -049 | -108 | -086 | -049 | -112 | -016 | -005 | 001 | -063 |
| | 03 | -007 | -013 | -020 | -101 | -063 | 003 | -033 | -002 | 027 | 012 | 016 | -021 | -012 | -069 | -039 | -021 | -020 | -039 | -071 | -036 | 005 | 006 | 005 | 002 | -020 |
| | 04 | -046 | 000 | -032 | -012 | -023 | -065 | 017 | 011 | -009 | -011 | 004 | 002 | -062 | -102 | -043 | -019 | -054 | -163 | -008 | 013 | 005 | 018 | -016 | -099 | -029 |
| | 05 | -063 | -012 | -040 | -046 | 009 | 002 | -038 | -042 | -038 | -033 | -033 | -157 | -192 | -055 | 002 | -019 | -123 | -215 | -067 | -013 | -020 | -083 | -006 | -013 | -054 |
| Q | 06 | -032 | -028 | -018 | -007 | -035 | 026 | 019 | -020 | -076 | -058 | -010 | -002 | 010 | 012 | 005 | -009 | 011 | -011 | -043 | -023 | -016 | -022 | 008 | 007 | -013 |
| | 07 | -030 | 003 | -071 | -026 | -020 | -072 | -028 | 007 | 022 | -066 | -098 | -066 | -059 | -077 | -053 | -032 | -177 | -204 | -107 | -002 | -001 | -042 | -027 | -034 | -053 |
| Q | 08 | -010 | 000 | -004 | -060 | -063 | -031 | -055 | -017 | -030 | 000 | -015 | -066 | -029 | -009 | -006 | -013 | 000 | 002 | 007 | 007 | 006 | 002 | 011 | 014 | -015 |
| | 09 | 011 | -102 | -085 | 033 | -001 | -036 | -030 | 013 | 013 | 012 | 006 | 004 | 002 | 002 | 005 | 000 | -037 | -047 | 006 | -005 | 034 | 006 | -034 | -109 | -014 |
| D | 10 | 020 | -019 | 008 | -040 | -034 | -068 | -051 | -023 | 071 | 072 | 044 | 011 | -085 | -018 | -193 | -117 | -097 | -211 | -015 | 007 | -004 | -352 | -148 | -059 | -054 |
| D | 11 | -040 | -270 | -144 | -037 | -074 | -015 | -001 | 031 | 020 | 020 | -020 | -056 | -087 | -016 | -083 | -116 | -122 | -153 | -182 | -125 | -127 | -308 | -167 | -089 | -090 |
| D | 12 | -062 | -132 | -046 | -072 | -016 | 006 | -065 | -040 | -037 | 030 | -087 | -165 | -076 | -149 | -121 | 000 | -238 | -312 | -060 | -003 | -122 | -153 | -075 | -070 | -086 |
| | 13 | -114 | -135 | -061 | -040 | -030 | 000 | -056 | 006 | 030 | -006 | 007 | -032 | -122 | -106 | -157 | -052 | -029 | -173 | -167 | -095 | -195 | -129 | -035 | -058 | -073 |
| | 14 | -148 | -056 | -035 | 021 | -021 | -021 | 018 | 010 | -093 | -051 | 020 | -148 | -108 | 010 | 011 | -032 | -152 | -069 | -064 | -141 | -162 | -047 | -066 | -094 | -059 |
| | 15 | -081 | -018 | 022 | 015 | -035 | -081 | -016 | -062 | 016 | 033 | 015 | -026 | -055 | -103 | -193 | -064 | -037 | -123 | -050 | -114 | -007 | -006 | -184 | -177 | -056 |
| | 16 | -070 | -022 | 031 | 040 | 030 | 000 | -024 | -039 | 014 | 002 | -050 | -182 | -047 | 003 | -085 | -182 | -131 | -216 | -269 | -027 | 019 | -021 | -045 | -173 | -060 |
| | 17 | -019 | -001 | 010 | 000 | -020 | -001 | -025 | 034 | 018 | -069 | -110 | 000 | -043 | -027 | -066 | 000 | 004 | -110 | -118 | -029 | -005 | -055 | -125 | -082 | -035 |
| | 18 | -052 | -084 | -093 | 000 | 000 | -054 | -062 | 011 | 011 | 012 | 003 | 009 | -053 | -048 | -023 | -072 | -017 | 007 | -034 | -074 | -102 | -118 | -011 | 018 | -034 |
| | 19 | 001 | 037 | 027 | 042 | -062 | -026 | -024 | 004 | 020 | -040 | -063 | -019 | -025 | 001 | 018 | 009 | 009 | 009 | -038 | -065 | -093 | 007 | -054 | -073 | -017 |
| Q | 20 | -074 | 011 | 007 | 005 | 013 | 017 | 009 | -003 | -025 | -050 | -028 | 018 | 014 | 013 | 013 | 009 | 007 | 009 | 008 | -028 | -055 | -017 | -032 | -011 | -007 |
| | 21 | 019 | 032 | 020 | 013 | -034 | -020 | 006 | 018 | -026 | 023 | 016 | 023 | 013 | 003 | 004 | 000 | -015 | -005 | -058 | -051 | 015 | 017 | 012 | 012 | 002 |
| Q | 22 | 004 | -023 | -052 | -017 | 029 | 021 | 014 | 012 | 007 | -018 | 006 | -023 | -007 | 000 | -048 | -079 | -046 | -073 | -040 | -006 | 013 | 021 | 012 | 010 | -012 |
| D | 23 | 016 | -041 | -016 | 025 | 030 | 002 | -102 | -013 | 037 | -064 | -173 | -413 | -100 | 012 | -058 | -237 | -181 | -091 | -001 | 003 | 009 | 007 | -008 | -100 | -061 |
| | 24 | -103 | -095 | -122 | -015 | -003 | -004 | 011 | 008 | 006 | 008 | 003 | 001 | -112 | -149 | -066 | -081 | -156 | -032 | 008 | -006 | -035 | -090 | -008 | -002 | -043 |
| | 25 | -024 | -023 | -102 | -068 | -072 | -163 | -112 | 010 | -048 | -042 | -065 | -099 | -174 | -186 | -040 | -030 | -095 | -007 | 000 | 007 | 021 | 019 | -009 | -034 | -056 |
| | 26 | -006 | 009 | -013 | -032 | 015 | 013 | 002 | -025 | -003 | 011 | 012 | -009 | -020 | -040 | -062 | 009 | -030 | -070 | -066 | -061 | -014 | 005 | 008 | 011 | -015 |
| Q | 27 | 012 | 011 | 009 | 010 | 005 | -074 | -069 | -013 | 003 | 004 | 003 | 007 | 010 | 006 | 000 | -027 | 011 | 005 | 007 | 011 | 005 | 010 | 015 | 009 | -001 |
| | 28 | 000 | -005 | -002 | -027 | -037 | 001 | -013 | -006 | -117 | -050 | -007 | 007 | 010 | 008 | 001 | -038 | -022 | 005 | 017 | -018 | -067 | -096 | 001 | -001 | -019 |
| | MEAN | -035 | -038 | -036 | -022 | -022 | -027 | -026 | -007 | -008 | -013 | -030 | -068 | -065 | -048 | -055 | -049 | -069 | -095 | -062 | -036 | -038 | -055 | -038 | -047 | -041 |
| 5Q | MEAN | -020 | -006 | -012 | -014 | -010 | -008 | -016 | -008 | -024 | -024 | -009 | -013 | -000 | 004 | -007 | -024 | -003 | -014 | -012 | -008 | -009 | -001 | 003 | 006 | -009 |
| 5D | MEAN | -009 | -097 | -055 | -053 | -046 | -033 | -043 | -011 | 003 | 004 | -065 | -203 | -125 | -067 | -116 | -104 | -158 | -207 | -103 | -038 | -062 | -102 | -097 | -089 | -081 |

MARCH 1975 AO INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -013 | -082 | -149 | -050 | -021 | -036 | -062 | -277 | -183 | -084 | -071 | -023 | 020 | 001 | -004 | -013 | -150 | -207 | -120 | -126 | -134 | -054 | 001 | 007 | -076 |
| | 02 | -027 | -149 | -088 | -027 | -009 | -086 | -097 | -076 | -048 | -035 | -009 | -027 | -060 | -017 | -016 | 004 | -003 | -041 | -094 | -061 | -104 | -051 | -057 | -019 | -050 |
| | 03 | -086 | -069 | -005 | -001 | -007 | -072 | -003 | 007 | 000 | -010 | -012 | 002 | -018 | -013 | 006 | -037 | -090 | -109 | -078 | -013 | 001 | -114 | -085 | -041 | -035 |
| | 04 | 004 | -016 | -098 | -069 | -041 | 000 | -053 | -086 | -021 | 008 | -012 | -001 | 006 | -006 | -006 | 003 | 000 | -025 | 002 | 000 | 002 | 007 | -007 | -035 | -019 |
| | 05 | -008 | 013 | -049 | -205 | -169 | -012 | -061 | 029 | -073 | -096 | -280 | -201 | -063 | -013 | -227 | -197 | -091 | -074 | -050 | -207 | 003 | 000 | -110 | -120 | -094 |
| | 06 | 000 | 022 | 000 | -044 | -067 | -073 | -050 | -127 | -161 | -194 | -100 | -100 | -166 | -048 | -166 | -203 | -137 | -219 | -059 | -013 | -056 | -177 | -052 | 015 | -091 |
| Q | 07 | -019 | -047 | -025 | -029 | -004 | -004 | -013 | -009 | -012 | -001 | -003 | 001 | 000 | 000 | 000 | 000 | 000 | 001 | 002 | 002 | 006 | 002 | 000 | 000 | -006 |
| Q | 08 | 001 | 000 | 002 | 001 | 002 | 001 | 003 | 003 | 003 | 001 | 000 | 000 | -002 | -001 | 000 | 000 | 001 | 003 | 001 | 004 | -003 | 001 | -001 | -001 | 001 |
| | 09 | -003 | -001 | 001 | 002 | 005 | 011 | 011 | 002 | 003 | 000 | -001 | -003 | -002 | -002 | 003 | 005 | 003 | -016 | -001 | -002 | -066 | 000 | -043 | -309 | -017 |
| D | 10 | -350 | -338 | -216 | -036 | -025 | -081 | 016 | 016 | -022 | -164 | -158 | -134 | -150 | -258 | -138 | -133 | -256 | -171 | -297 | -413 | -330 | -242 | -224 | -353 | -186 |
| D | 11 | -262 | -136 | -377 | -355 | -097 | -068 | -100 | -096 | -167 | -087 | -128 | -223 | -127 | -256 | -095 | -087 | -109 | -125 | -038 | -054 | -040 | -206 | -126 | -145 | -146 |
| D | 12 | -078 | -115 | -125 | -215 | -064 | -004 | 004 | -119 | -140 | -122 | -263 | -124 | -168 | -129 | -107 | -116 | -123 | -008 | -053 | -131 | -214 | -126 | -275 | -279 | -129 |
| | 13 | -114 | -151 | -124 | -008 | -034 | 011 | -015 | -040 | -036 | -057 | -060 | -147 | -069 | -154 | -177 | -084 | -086 | -152 | -328 | -147 | -048 | -029 | -234 | -188 | -103 |
| | 14 | -039 | -014 | -038 | -085 | -028 | -159 | -133 | -113 | 000 | -007 | -026 | -133 | -080 | -259 | -157 | -083 | -067 | -101 | -037 | -131 | -136 | -067 | -254 | -077 | -093 |
| | 15 | -039 | -143 | -085 | -002 | -064 | -079 | -083 | -047 | -042 | -041 | -026 | -075 | -180 | -096 | -031 | -094 | -167 | -048 | -056 | -108 | -069 | -130 | -072 | -014 | -075 |
| | 16 | -007 | -023 | -060 | -070 | -061 | -075 | -092 | -012 | -149 | -219 | -099 | -079 | -162 | -081 | -014 | -109 | -120 | -019 | -001 | 006 | 002 | 007 | -006 | -047 | -062 |
| | 17 | -101 | -017 | -053 | -091 | -063 | 000 | 015 | -008 | -010 | -081 | -063 | -021 | 006 | -006 | -004 | -077 | -006 | 009 | 000 | -078 | -035 | -047 | -053 | -199 | -041 |
| | 18 | -165 | -037 | 026 | 010 | -033 | -041 | -111 | -026 | -022 | -032 | 019 | -060 | -104 | -041 | -042 | -102 | -183 | -032 | -040 | -089 | -087 | -058 | -066 | 013 | -054 |
| | 19 | -037 | -005 | 014 | 004 | -001 | 023 | -006 | -054 | -020 | 012 | 015 | -007 | -023 | 005 | -069 | -016 | -010 | -003 | -019 | -004 | -018 | -075 | -115 | -051 | -019 |
| | 20 | 018 | 011 | 012 | 001 | -006 | -064 | -077 | 002 | 049 | 041 | 012 | -091 | -113 | -131 | -124 | -065 | -003 | -111 | -048 | 002 | -027 | -066 | -119 | -048 | -039 |
| Q | 21 | -035 | -013 | 012 | 002 | 002 | -001 | -020 | -023 | 001 | 001 | -004 | -003 | 002 | 000 | -001 | -001 | -015 | -003 | 004 | 005 | 002 | 001 | -002 | -004 | -004 |
| Q | 22 | -003 | -002 | 000 | 000 | 000 | -003 | -003 | 000 | 000 | 006 | 000 | 002 | 000 | 000 | -001 | 000 | 000 | 002 | 006 | 009 | 010 | 011 | 013 | -034 | 001 |
| | 23 | -039 | -024 | -036 | -081 | -045 | 046 | 083 | 027 | -054 | 001 | 008 | -116 | -039 | -035 | -009 | 004 | -007 | -010 | -033 | -037 | -003 | 013 | 022 | 009 | -015 |
| | 24 | -005 | 000 | 009 | 006 | 015 | 019 | 013 | 009 | 020 | -003 | -082 | -073 | -111 | -026 | -048 | -097 | -039 | -096 | 006 | 007 | -081 | -032 | -004 | 009 | -024 |
| Q | 25 | 010 | 009 | 006 | 003 | -007 | 012 | 026 | -013 | 005 | 006 | 008 | -009 | -112 | -031 | -022 | -001 | 011 | -053 | -073 | -010 | 003 | 000 | -008 | 008 | -010 |
| | 26 | 008 | 000 | -003 | -078 | -063 | 016 | 017 | 021 | 006 | 035 | -011 | -128 | -039 | -033 | -042 | -047 | -030 | -018 | -001 | -080 | -114 | -014 | 005 | -019 | -026 |
| D | 27 | -045 | -059 | -042 | -037 | -013 | -042 | -025 | -047 | -039 | -032 | -111 | -069 | -208 | -244 | -387 | -278 | -462 | -519 | -193 | -042 | 004 | -006 | -053 | -128 | -128 |
| D | 28 | -054 | -017 | -033 | -023 | -154 | -091 | -091 | -122 | -165 | -059 | -184 | -288 | -173 | -248 | -131 | -186 | -139 | -093 | -114 | -204 | -126 | -140 | -198 | -017 | -127 |
| | 29 | -008 | -019 | -090 | -152 | -064 | -059 | -247 | -127 | -103 | -152 | -110 | -233 | -169 | -097 | -148 | -096 | -089 | -231 | -063 | -009 | -030 | -039 | 003 | -022 | -098 |
| | 30 | -105 | -046 | -041 | -063 | -021 | -023 | -034 | -065 | -043 | -019 | -005 | -102 | -074 | -013 | -006 | 003 | -002 | 000 | -010 | -018 | -007 | -052 | -024 | -076 | -035 |
| | 31 | -134 | -157 | -207 | -180 | -062 | -021 | -037 | -041 | -018 | 008 | 006 | -008 | -041 | -116 | -062 | -018 | -103 | -018 | -026 | -108 | 014 | 006 | 000 | -009 | -056 |
| | MEAN | -056 | -052 | -060 | -060 | -039 | -031 | -040 | -046 | -046 | -044 | -056 | -080 | -078 | -076 | -072 | -068 | -080 | -080 | -058 | -066 | -054 | -054 | -069 | -070 | -060 |
| 5Q | MEAN | -009 | -011 | -001 | -005 | -001 | 001 | -001 | -008 | -001 | 003 | 000 | -002 | -022 | -006 | -005 | -000 | -001 | -010 | -012 | 002 | 004 | 003 | 000 | -006 | -003 |
| 5D | MEAN | -158 | -133 | -159 | -133 | -071 | -057 | -039 | -074 | -107 | -093 | -169 | -168 | -165 | -227 | -172 | -160 | -218 | -183 | -139 | -169 | -141 | -144 | -175 | -184 | -143 |

APRIL 1975 AO INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | -097 | -026 | -004 | -002 | -013 | -003 | -020 | -098 | -098 | -025 | -029 | -022 | -013 | 000 | -032 | -001 | -033 | -055 | 004 | -003 | 000 | -002 | 005 | -004 | -024 |
| | 02 | -012 | -018 | -026 | -021 | 003 | -001 | -006 | -009 | -009 | -006 | -009 | -009 | -008 | -007 | -010 | -009 | -006 | -005 | -012 | -010 | -007 | -025 | -031 | 011 | -010 |
| | 03 | -024 | -102 | -055 | -030 | -002 | 000 | -003 | -043 | -030 | 002 | 005 | 005 | -008 | -004 | -007 | -029 | -017 | 000 | 000 | 001 | -032 | -046 | 004 | -003 | -017 |
| | 04 | -002 | -049 | -036 | -102 | -041 | 006 | -003 | -001 | -032 | -035 | 026 | 025 | 005 | -006 | 007 | -017 | -026 | -003 | -018 | 004 | -062 | -109 | -007 | -066 | -023 |
| | 05 | -127 | -062 | 009 | -002 | -001 | -007 | -009 | -050 | -036 | -015 | 007 | 014 | -004 | -003 | -005 | 001 | -001 | -069 | -038 | -009 | 020 | -043 | -048 | -010 | -020 |
| | 06 | 004 | -099 | -027 | -018 | -027 | -057 | -026 | -006 | -001 | 001 | 027 | 021 | 001 | -003 | -006 | -068 | -059 | -016 | 009 | 015 | 030 | -146 | -020 | 021 | -019 |
| | 07 | 002 | -020 | 009 | -009 | -011 | 010 | -023 | -009 | 001 | 008 | 010 | -108 | -145 | 021 | 016 | 018 | 009 | 032 | -131 | -135 | -055 | -201 | -177 | -091 | -041 |
| D | 08 | -077 | -109 | -068 | -035 | -019 | -048 | -103 | -123 | -033 | -163 | -053 | 036 | -179 | -157 | -158 | -150 | -038 | -072 | -058 | -098 | -058 | 009 | 008 | -012 | -073 |
| D | 09 | -124 | -253 | -302 | -133 | -242 | -094 | -109 | -001 | -069 | -076 | -113 | -065 | -115 | -140 | -131 | -120 | -065 | -539 | -125 | -204 | -134 | -190 | -276 | -176 | -158 |
| D | 10 | -226 | -099 | -194 | -295 | -207 | 007 | 009 | -064 | -086 | -140 | -084 | -139 | -078 | 030 | 013 | -007 | -054 | -016 | -135 | -041 | 010 | -095 | -273 | -036 | -092 |
| D | 11 | -004 | -300 | -181 | -097 | -162 | -180 | -154 | -036 | -067 | -125 | -181 | -366 | -250 | -015 | -064 | -162 | -060 | -005 | -042 | -033 | 005 | -026 | -077 | -104 | -112 |
| | 12 | -032 | -004 | -016 | -030 | -047 | -021 | -122 | -055 | -017 | -163 | -127 | -068 | -013 | -082 | -088 | -163 | -085 | -023 | -081 | -035 | 000 | -185 | -375 | -269 | -088 |
| D | 13 | -372 | -260 | -041 | -050 | -106 | -067 | -075 | -232 | -068 | 036 | -006 | -009 | -017 | -035 | -126 | 009 | 012 | 019 | 010 | -014 | -050 | -079 | -163 | -168 | -077 |
| | 14 | -094 | -244 | -249 | -270 | -155 | -119 | -135 | -007 | 006 | 006 | -047 | -017 | -018 | -035 | -063 | -064 | -021 | -004 | -010 | -052 | -058 | 007 | -048 | -058 | -073 |
| | 15 | -014 | -002 | -044 | -003 | -027 | -036 | -003 | -003 | -002 | 010 | -001 | -063 | -016 | -013 | -066 | -074 | -024 | -076 | -033 | 011 | -004 | 000 | -003 | -026 | -021 |
| | 16 | -043 | -039 | 003 | -013 | -032 | 009 | -018 | -015 | -014 | 008 | -013 | -005 | 000 | -001 | -002 | -001 | -012 | -029 | -043 | -013 | -017 | 000 | -003 | 000 | -012 |
| Q | 17 | 000 | -007 | -029 | -015 | -001 | 000 | -003 | -001 | -011 | -052 | -046 | -001 | 007 | 008 | 005 | 009 | -013 | -037 | 009 | 017 | 011 | 006 | 004 | 005 | -006 |
| | 18 | 003 | 004 | 005 | 004 | 005 | 004 | -001 | -004 | -008 | -007 | 000 | 008 | -058 | -037 | -017 | -038 | -021 | -008 | -050 | -019 | -015 | -004 | -002 | -031 | -012 |
| Q | 19 | -008 | 019 | 033 | 021 | -051 | -086 | -034 | 000 | 002 | -012 | -025 | 020 | -024 | 008 | 009 | 000 | 009 | 019 | 012 | 009 | -002 | 006 | 004 | 006 | -003 |
| | 20 | 005 | 007 | 005 | 005 | 001 | 001 | 001 | -002 | -002 | -019 | -030 | -010 | 018 | -046 | -078 | -081 | -039 | -139 | -141 | -208 | -413 | -219 | -104 | -139 | -068 |
| | 21 | -113 | -136 | -199 | -030 | 005 | 012 | 009 | 010 | 010 | 015 | 012 | 039 | 034 | -007 | -060 | -135 | -044 | -006 | -130 | -044 | 009 | 004 | 003 | 003 | -031 |
| | 22 | -022 | -086 | -019 | -007 | -045 | -137 | -113 | -083 | -044 | -001 | 000 | 009 | 005 | -024 | -057 | -019 | -018 | -061 | -101 | -031 | -048 | -029 | -143 | -041 | -046 |
| | 23 | -005 | -136 | -122 | -025 | -050 | -093 | -089 | -039 | -063 | 007 | -291 | -067 | -016 | -017 | -012 | -064 | -165 | 004 | -042 | 028 | -074 | -066 | -060 | -061 | -063 |
| | 24 | -189 | -152 | -096 | -116 | -057 | -030 | -068 | -098 | -022 | -009 | -172 | -010 | -001 | -006 | -025 | -041 | -089 | -042 | -001 | -040 | -111 | -059 | -009 | -032 | -061 |
| | 25 | -042 | -041 | 002 | -012 | -113 | -035 | 003 | -013 | -010 | -021 | -017 | 002 | 010 | 000 | -035 | -049 | -027 | 007 | 005 | 006 | 005 | 001 | 006 | -006 | -016 |
| | 26 | -167 | -067 | 010 | -019 | -009 | 000 | -003 | -003 | -006 | -006 | 002 | -051 | -038 | -013 | -015 | -016 | 007 | -038 | -077 | 005 | 004 | -025 | -026 | 006 | -023 |
| Q | 27 | 011 | 000 | 001 | -047 | -172 | -054 | -005 | -003 | 000 | 007 | -020 | 002 | 009 | -002 | 000 | -005 | 005 | 005 | 012 | 007 | 004 | 004 | 003 | -007 | -010 |
| Q | 28 | 004 | -048 | -017 | 007 | 005 | 000 | -009 | -008 | -003 | -004 | -001 | 000 | 006 | 005 | 005 | 004 | 000 | 000 | 000 | 007 | 009 | 016 | 019 | 011 | 000 |
| Q | 29 | 005 | 000 | -001 | 000 | -001 | 000 | 000 | 001 | -004 | 003 | -030 | 000 | 002 | 003 | 004 | 003 | 005 | 002 | -006 | 006 | 007 | 006 | 007 | 005 | 001 |
| | 30 | 002 | 002 | 000 | 001 | 001 | 003 | -026 | -017 | -067 | -032 | -013 | -002 | 005 | 012 | 009 | -005 | 003 | 010 | 009 | 010 | 004 | 010 | -001 | 000 | -003 |
| | MEAN | -059 | -078 | -055 | -045 | -052 | -034 | -038 | -034 | -026 | -027 | -041 | -028 | -030 | -019 | -033 | -042 | -029 | -038 | -040 | -029 | -034 | -049 | -059 | -042 | -040 |
| 5Q | MEAN | 002 | -007 | -003 | -007 | -044 | -028 | -010 | -002 | -003 | -012 | -024 | 004 | 000 | 004 | 005 | 002 | 001 | -002 | 005 | 009 | 006 | 008 | 007 | 004 | -003 |
| 5D | MEAN | -161 | -204 | -157 | -122 | -147 | -076 | -086 | -091 | -065 | -094 | -087 | -109 | -128 | -063 | -093 | -086 | -041 | -123 | -070 | -078 | -045 | -076 | -156 | -099 | -102 |

MAY 1975 AO INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 01 | 019 | 011 | 006 | 004 | 002 | -007 | -018 | -015 | 000 | 028 | 030 | 016 | 006 | -010 | -033 | -032 | 000 | 009 | 002 | 019 | 014 | 000 | 017 | -015 | 002 |
| | 02 | -056 | 003 | 017 | 008 | -026 | -092 | -011 | -102 | -081 | -092 | 006 | 010 | -046 | -089 | -062 | -079 | -069 | -006 | -039 | -061 | -128 | -017 | -090 | -120 | -051 |
| | 03 | -038 | -030 | -195 | -289 | -171 | -097 | -099 | -053 | -005 | -002 | 023 | -017 | -053 | -154 | -118 | -023 | 009 | 006 | -003 | -023 | -031 | -007 | -015 | -067 | -061 |
| | 04 | -079 | -018 | -072 | -006 | -011 | -149 | -055 | -057 | -052 | 008 | 008 | 001 | -032 | -007 | 018 | 009 | -015 | -012 | -052 | -023 | 005 | 000 | -052 | -133 | -032 |
| D | 05 | -235 | -088 | -118 | -186 | -061 | 024 | 000 | -119 | -052 | -056 | -007 | 008 | 033 | -014 | -057 | -021 | 006 | -020 | -173 | -082 | -099 | -087 | -158 | -113 | -070 |
| D | 06 | -196 | -135 | -149 | -147 | -161 | -026 | -009 | -095 | -121 | -076 | -040 | -036 | -040 | -038 | -054 | -046 | -143 | -056 | -091 | -078 | -058 | -133 | -097 | -043 | -086 |
| D | 07 | -060 | -072 | -024 | -027 | -015 | -031 | -002 | -046 | -069 | -015 | -041 | -056 | -123 | -070 | -163 | -187 | -064 | 010 | -072 | -026 | 001 | 012 | -081 | -058 | -053 |
| | 08 | -101 | -019 | -118 | -054 | -125 | -096 | -165 | -066 | -041 | -014 | 010 | -006 | -045 | -012 | 006 | -032 | -031 | -040 | -019 | -077 | -045 | -085 | -066 | -078 | -055 |
| | 09 | -001 | -089 | -132 | -018 | 012 | -011 | -040 | -096 | -024 | -013 | -078 | -021 | -020 | -073 | -053 | -069 | -006 | 017 | -003 | -092 | -040 | -055 | -076 | -221 | -050 |
| | 10 | -053 | -025 | -162 | -309 | -135 | -052 | -062 | -056 | -133 | -055 | -008 | -025 | -143 | -059 | -022 | -036 | -001 | -005 | -003 | 014 | -029 | -049 | -036 | 009 | -060 |
| Q | 11 | 005 | -002 | -001 | -017 | -014 | -006 | 005 | -001 | 000 | -013 | -008 | -003 | 005 | 012 | 000 | -001 | -010 | 003 | 002 | 001 | -004 | 003 | 003 | 000 | -002 |
| Q | 12 | -001 | 000 | 000 | 002 | 001 | -038 | -028 | -027 | -013 | -009 | -007 | -004 | 000 | 003 | 003 | 006 | 006 | 009 | 004 | 007 | 003 | 001 | 001 | 000 | -003 |
| | 13 | 001 | 006 | 011 | 002 | 004 | 008 | 009 | -004 | 010 | 031 | 028 | -004 | 006 | 012 | 006 | 002 | 006 | 017 | 024 | -009 | 020 | -047 | -056 | -008 | 003 |
| | 14 | -053 | -043 | -060 | -097 | -064 | 013 | 014 | 015 | 019 | 047 | -054 | -050 | -056 | -039 | -019 | -031 | -002 | -005 | 002 | 011 | 000 | -019 | -004 | 011 | -019 |
| Q | 15 | 012 | 001 | -011 | -007 | -007 | -060 | -083 | -038 | -010 | -008 | -003 | -006 | 005 | 010 | -002 | -022 | -002 | -010 | -006 | 006 | 002 | 003 | 005 | 004 | -009 |
| D | 16 | 004 | 006 | 011 | -004 | -109 | -053 | 037 | -085 | -094 | -002 | 027 | 028 | -167 | -100 | -011 | 018 | 000 | 022 | 009 | 041 | 028 | 029 | -063 | -095 | -022 |
| | 17 | -026 | -016 | 001 | -008 | -072 | -012 | -067 | 014 | -071 | -184 | -090 | -020 | -036 | -147 | -032 | 003 | -039 | -058 | -003 | 000 | 013 | 015 | 011 | 014 | -034 |
| | 18 | 007 | -009 | -021 | -104 | -131 | -094 | -052 | -033 | -059 | -014 | 017 | 002 | -008 | -022 | -051 | -020 | 016 | 015 | -004 | -072 | 014 | -006 | -016 | -014 | -027 |
| | 19 | -033 | -127 | -120 | -059 | -040 | -128 | -060 | 008 | 012 | -020 | -001 | 010 | 004 | 007 | 007 | 017 | 014 | 014 | 017 | 040 | -009 | -053 | 008 | 032 | -019 |
| D | 20 | 021 | 031 | -014 | -060 | -003 | 015 | -155 | -072 | -052 | -094 | -009 | 009 | -019 | -007 | -026 | -043 | -063 | -004 | 024 | 013 | 011 | 008 | 004 | 003 | -020 |
| | 21 | 005 | -066 | -138 | -070 | -070 | -118 | -017 | -011 | -029 | -009 | 018 | -063 | -069 | -046 | 018 | 024 | 011 | 001 | 008 | 002 | -074 | -046 | -002 | -022 | -032 |
| | 22 | -020 | -027 | 003 | 000 | -017 | -142 | -067 | -057 | 002 | -031 | -099 | -095 | -047 | -046 | -077 | 015 | 010 | -038 | -030 | 006 | 009 | 019 | -007 | -076 | -034 |
| | 23 | -006 | 005 | 000 | 000 | 003 | -070 | -094 | -046 | -009 | -012 | -047 | -046 | 006 | 015 | 011 | -009 | 004 | -022 | -038 | -055 | -016 | 019 | 009 | 010 | -016 |
| | 24 | -001 | 000 | -004 | -001 | -003 | 000 | -033 | -065 | -015 | 030 | 013 | -016 | 003 | 019 | 017 | 004 | 003 | 002 | 007 | 005 | 007 | 016 | -023 | -005 | -002 |
| | 25 | 001 | -035 | -071 | -048 | 022 | 009 | -013 | -014 | 013 | 001 | -003 | 012 | 020 | 006 | -017 | -005 | 000 | -033 | -055 | -081 | -082 | -167 | -101 | -112 | -031 |
| | 26 | -123 | -118 | -111 | -107 | -184 | -141 | -081 | -087 | -050 | 023 | -001 | -060 | 020 | 032 | 022 | 016 | 016 | 007 | 013 | 009 | 012 | 014 | 015 | 011 | -036 |
| | 27 | 008 | 003 | 005 | 010 | 011 | -052 | -029 | -037 | 019 | 035 | 004 | -012 | -022 | -017 | -012 | -015 | 000 | -008 | -009 | -002 | 013 | 032 | 019 | 020 | -002 |
| Q | 28 | 012 | 010 | 004 | -028 | -028 | -016 | 000 | 000 | 004 | -003 | -001 | -002 | -003 | -003 | 002 | -001 | 005 | 003 | -023 | -005 | -002 | 000 | -001 | 000 | -003 |
| | 29 | 005 | -003 | -041 | -061 | -062 | -025 | -066 | -110 | -028 | -039 | 006 | 014 | 017 | 010 | 011 | -001 | -003 | -076 | 018 | 035 | -031 | -051 | 000 | 007 | -020 |
| | 30 | -025 | 004 | -002 | 004 | 004 | -060 | -100 | -066 | -023 | -014 | -007 | 006 | -013 | -024 | -026 | -015 | 004 | 012 | -014 | 004 | 014 | 010 | -001 | 025 | -013 |
| Q | 31 | 014 | 006 | 000 | 015 | 008 | 003 | -002 | 002 | 003 | 003 | 000 | 000 | 010 | -001 | -014 | -008 | 002 | 000 | -007 | -016 | -007 | -010 | 002 | 015 | 001 |
| | MEAN | -032 | -027 | -049 | -054 | -047 | -049 | -043 | -046 | -031 | -018 | -010 | -014 | -026 | -027 | -023 | -019 | -011 | -008 | -017 | -016 | -016 | -021 | -027 | -033 | -028 |
| 5Q | MEAN | 008 | 003 | -002 | -007 | -008 | -023 | -022 | -013 | -003 | -006 | -004 | -003 | 003 | 004 | -002 | -005 | 000 | 001 | -006 | -001 | -002 | -001 | 002 | 004 | -003 |
| 5D | MEAN | -093 | -052 | -059 | -085 | -070 | -014 | -026 | -083 | -078 | -049 | -014 | -009 | -063 | -046 | -062 | -056 | -053 | -010 | -061 | -026 | -023 | -034 | -079 | -061 | -050 |

JUNE 1975 AO INDICES VALUES ARE EXPRESSED IN GAMMAS

| | UT | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | MEAN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | 01 | -054 | -036 | -004 | -002 | 003 | -003 | -011 | 000 | 032 | 016 | 012 | 002 | -010 | -125 | -059 | -047 | 016 | 032 | -051 | 046 | 046 | 039 | 007 | -041 | -008 |
| D | 02 | -114 | -056 | -090 | 002 | -012 | -099 | 003 | -063 | -147 | -092 | 015 | -002 | -022 | -068 | -117 | -074 | -090 | -065 | -015 | -025 | -008 | -080 | -038 | -023 | -053 |
| | 03 | -030 | -023 | -025 | -009 | -011 | 001 | -077 | -114 | -086 | -036 | -029 | -038 | -130 | -122 | -069 | -042 | -028 | -005 | -001 | -013 | 014 | 005 | -013 | -097 | -041 |
| | 04 | -069 | -067 | -099 | -040 | -018 | -137 | -057 | -005 | -033 | -015 | -007 | -012 | -022 | -007 | -071 | -042 | -051 | -006 | 011 | 007 | -022 | -035 | -009 | -033 | -035 |
| | 05 | -201 | -083 | -048 | -019 | -025 | 000 | 010 | 015 | 017 | 016 | 013 | -038 | -006 | -033 | -034 | -106 | -036 | -082 | -108 | 016 | 010 | -129 | -130 | -011 | -041 |
| | 06 | -063 | -083 | -075 | -082 | -006 | 017 | -001 | 022 | 023 | 034 | 032 | 016 | 008 | 000 | -092 | -095 | -058 | -043 | -059 | 000 | 013 | 001 | -002 | -082 | -024 |
| | 07 | -027 | 009 | 007 | -003 | -045 | -028 | -032 | -059 | -061 | -006 | 017 | 001 | 000 | 004 | -001 | 013 | 005 | 002 | -001 | 000 | -031 | -065 | -001 | 007 | -012 |
| Q | 08 | 003 | -003 | 005 | 000 | -001 | 009 | 008 | -002 | 013 | 009 | 000 | 011 | -004 | -053 | -070 | -028 | 007 | 015 | 004 | -002 | -001 | 000 | 000 | -002 | -003 |
| | 09 | 000 | 004 | 013 | -097 | -018 | 005 | 003 | 006 | 012 | -008 | -020 | -002 | 000 | 009 | -012 | 003 | 002 | -006 | -009 | 000 | -002 | 002 | 003 | 000 | -005 |
| Q | 10 | 000 | -024 | -010 | -010 | -006 | 003 | 004 | 017 | 000 | -021 | 003 | -001 | -010 | 002 | -032 | -070 | -003 | -004 | 002 | 007 | 007 | 008 | -005 | 000 | -006 |
| | 11 | -034 | -018 | -011 | 018 | 019 | 029 | -007 | 010 | -029 | -069 | -036 | 018 | 013 | -010 | -003 | 005 | 018 | 012 | 004 | 028 | 038 | 037 | 029 | 026 | 004 |
| D | 12 | 004 | -069 | -115 | -172 | -066 | 000 | 025 | -004 | 023 | -004 | -009 | -031 | -136 | -128 | -011 | 024 | 033 | -108 | -086 | -026 | 035 | 016 | -067 | -021 | -037 |
| | 13 | -026 | -116 | -021 | 007 | -005 | -085 | -051 | -013 | -035 | -020 | -027 | -050 | -119 | -115 | -092 | 005 | 002 | 009 | -073 | -081 | -002 | 018 | 017 | -019 | -037 |
| | 14 | -005 | -013 | -013 | -022 | -021 | -018 | -075 | -130 | -086 | -046 | -035 | -006 | -031 | -073 | -043 | -026 | -021 | 000 | -049 | -034 | -002 | 014 | 009 | 010 | -030 |
| | 15 | 009 | 008 | -035 | -015 | -009 | -079 | -028 | -032 | -012 | -106 | -063 | -009 | 011 | 010 | -017 | -121 | -132 | -140 | -108 | 008 | 019 | -049 | -094 | -023 | -042 |
| | 16 | -074 | 002 | -030 | -050 | -007 | 023 | -078 | -045 | -006 | -062 | -091 | -065 | -039 | -026 | -101 | -138 | -053 | -087 | -061 | -006 | 013 | -009 | -080 | -025 | -046 |
| | 17 | 016 | -001 | -021 | -015 | 002 | 007 | -043 | -022 | -034 | -074 | -091 | -025 | -083 | -020 | -023 | -025 | -089 | -006 | -009 | -013 | 000 | -085 | -036 | -049 | -031 |
| | 18 | -098 | -066 | -075 | -050 | -114 | -124 | -111 | -010 | 009 | 026 | -004 | -003 | -039 | -014 | -057 | -105 | -022 | 016 | -039 | 002 | -035 | 005 | 003 | 001 | -038 |
| | 19 | -051 | -074 | -049 | -033 | -001 | -007 | -076 | -078 | -088 | -092 | -040 | -044 | -129 | -047 | -030 | -065 | -029 | -011 | -016 | -060 | -010 | 000 | -052 | -018 | -046 |
| | 20 | 011 | 001 | -022 | -010 | 004 | 006 | -006 | -012 | -021 | -013 | -002 | 013 | -015 | 003 | 003 | -001 | -003 | 005 | 008 | 008 | -003 | 004 | 005 | 016 | -001 |
| | 21 | 001 | 000 | -070 | -089 | -026 | 000 | 004 | 009 | -046 | -089 | -026 | -012 | 002 | 017 | 031 | 024 | -009 | -122 | -055 | 038 | 029 | -091 | -024 | -078 | -024 |
| | 22 | -013 | 000 | 027 | 022 | 011 | 001 | 011 | 003 | -070 | -046 | -026 | -009 | 013 | -019 | -018 | 000 | 008 | 008 | 015 | 014 | -003 | -012 | -001 | 002 | -003 |
| Q | 23 | -009 | 004 | 006 | 014 | -019 | -015 | 000 | -001 | -002 | -003 | 002 | 013 | -004 | -001 | -006 | 000 | -022 | 001 | 010 | -026 | 004 | -008 | -003 | 015 | -002 |
| Q | 24 | -003 | -016 | -067 | -014 | 000 | -001 | 004 | 017 | 022 | 032 | 040 | 028 | 016 | 005 | 004 | 006 | 012 | 014 | 018 | 015 | 003 | -002 | -003 | -001 | 005 |
| | 25 | 005 | 003 | 004 | 008 | 010 | 011 | 010 | 017 | 014 | 011 | 011 | 012 | 007 | -024 | -009 | -031 | -070 | -007 | 021 | 021 | 019 | -034 | -007 | -022 | -001 |
| | 26 | -020 | -055 | -040 | 009 | -078 | -008 | 023 | 014 | -042 | -025 | 011 | 015 | -028 | -015 | 009 | 000 | -023 | 007 | 011 | 010 | 002 | 008 | 007 | 006 | -008 |
| Q | 27 | 006 | 009 | 010 | 018 | 011 | -029 | -026 | -002 | 001 | -001 | 001 | 003 | 006 | 005 | 006 | -010 | -010 | 000 | -001 | 006 | -003 | -002 | 001 | 004 | 000 |
| | 28 | 006 | 006 | 000 | 000 | 010 | 011 | 014 | -076 | -043 | -022 | -004 | 003 | -052 | -005 | 000 | -004 | 000 | 004 | 007 | 008 | 007 | 002 | 010 | 020 | -004 |
| D | 29 | 016 | 018 | 019 | 005 | 018 | -003 | -072 | 002 | 029 | 017 | 015 | 010 | 015 | 017 | -026 | -141 | -085 | -056 | 035 | -052 | -115 | -059 | -051 | -003 | -019 |
| D | 30 | -085 | -124 | -095 | -016 | -013 | -032 | -005 | -089 | -083 | -031 | -072 | -068 | -047 | -011 | -006 | -032 | -049 | -037 | -055 | -011 | 012 | -019 | -122 | -016 | -046 |
| | 31 | | | | | | | | | | | | | | | | | | | | | | | | | |
| | MEAN | -030 | -029 | -031 | -022 | -014 | -018 | -021 | -021 | -024 | -024 | -014 | -009 | -028 | -028 | -032 | -037 | -026 | -022 | -022 | -004 | 001 | -017 | -022 | -015 | -021 |
| SQ | MEAN | -001 | -006 | -011 | 002 | -003 | -007 | -002 | 006 | 007 | 003 | 009 | 011 | 001 | -008 | -020 | -020 | -003 | 005 | 007 | 000 | 002 | -001 | -002 | 003 | -001 |
| SD | MEAN | -047 | -053 | -057 | -037 | -014 | -027 | -012 | -031 | -029 | -019 | -008 | -018 | -040 | -063 | -044 | -054 | -035 | -047 | -034 | -014 | -006 | -021 | -054 | -021 | -032 |

## 7. TABLES OF OBSERVATORIES SUPPLYING HOURLY AU AND AL

### TABLE OF OBSERVATORIES SUPPLYING HOURLY AU BASED ON MEAN VALUE

JANUARY 1975 AU = MAXIMUM DELTA H

| UT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FC | GWR | GWR | YEK | YEK | YEK | YEK | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | DI | YEK | AI | AI | LR | YEK | NAS |
| Q 2 | NAS | FC | FC | NAS | FC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | CC | AI | AI | DI | DI | FC |
| 3 | FC | DI | DI | TI | FC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | AI | NAS | NAS | NAS | LR | LR | FC |
| D 4 | GWR | GWR | CO | CO | TI | CC | CC | CC | CC | CC | DI | DI | DI | AI | AI | LR | LR | AI | NAS | NAS | NAS | GWR | FC | GWR |
| 5 | LR | GWR | CO | CO | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | LR | LR | NAS | LR | NAS | NAS | GWR | FC | NAS | FC |
| 6 | FC | FC | DI | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | AI | AI | LR | NAS | FC | GWR | GWR | GWR | CO |
| D 7 | CO | CO | CO | CO | DI | LR | CC | CC | CC | CC | DI | DI | DI | DI | DI | DI | CO | LR | DI | NAS | FC | DI | DI | FC |
| D 8 | FC | FC | TI | TI | CO | CC | CO | CO | CO | CO | DI | DI | DI | DI | AI | NAS | LR | LR | GWR | GWR | NAS | FC | FC | FC |
| 9 | FC | FC | DI | CC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | LR | NAS | NAS | CO | FC | FC | FC | FC |
| 10 | FC | CC | TI | DI | CC | CC | CC | CC | CC | CC | CC | CC | CC | CC | CC | DI | LR | CO | FC | FC | FC | TI | FC | FC |
| Q11 | FC | TI | DI | TI | CC | CC | CC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | NAS | CO | CO | CO | TI | TI | TI |
| Q12 | TI | TI | DI | UE | CC | CC | TI | TI | CC | CC | CC | CC | CC | CC | DI | CC | CC | CC | NAS | UE | AI | LR | LR | NAS |
| D13 | GWR | TI | GWR | GWR | CO | CO | CO | CO | UE | UE | UE | TI | DI | AI | AI | DI | NAS | LR | NAS | LR | GWR | GWR | GWR | GWR |
| D14 | GWR | GWR | GWR | CO | CC | CO | CO | CC | CC | CC | DI | TI | DI | AI | LR | AI | LR | LR | GWR | LR | FC | GWR | FC | FC |
| 15 | GWR | GWR | GWR | GWR | CO | CC | CC | CC | CC | CC | CC | TI | DI | DI | DI | DI | NAS | AI | AI | LR | FC | GWR | GWR | GWR |
| 16 | FC | FC | FC | CO | GWR | CC | CC | CC | CC | CC | CC | DI | DI | AI | AI | AI | AI | AI | LR | LR | GWR | GWR | GWR | GWR |
| 17 | GWR | GWR | CO | CO | CO | FC | CC | CC | DI | DI | CC | DI | AI | DI | DI | FC | DI | LR | FC | FC | FC | FC | NAS | GWR |
| 18 | CO | GWR | GWR | GWR | CC | CC | CC | CC | CC | DI | DI | CC | CC | DI | AI | DI | DI | DI | NAS | NAS | NAS | NAS | GWR | NAS |
| 19 | GWR | GWR | GWR | GWR | GWR | CC | CC | CC | CC | CC | DI | DI | CC | DI | DI | DI | NAS | NAS | AI | FC | FC | FC | FC | LR |
| 20 | FC | FC | FC | FC | CO | CC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | LR | LR | AI | AI | NAS | LR | LR | NAS |
| 21 | NAS | GWR | GWR | DI | NAS | CC | TI | CC | CC | CC | CC | CC | DI | DI | DI | DI | NAS | AI | AI | LR | DI | FC | DI | NAS |
| 22 | TI | FC | FC | FC | FC | TI | CC | CC | FC | CC | CC | CC | CC | DI | DI | DI | AI | AI | AI | AI | NAS | NAS | FC | GWR |
| 23 | GWR | DI | FC | CC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | AI | AI | AI | NAS | NAS | NAS | FC | FC |
| 24 | GWR | GWR | DI | CO | FC | FC | LR | LR | CC | CC | CC | DI | CC | CC | CC | LR | AI | AI | FC | FC | NAS | NAS | DI | DI |
| Q25 | CC | FC | FC | FC | DI | CC | CC | DI | DI | CC | CC | CC | CC | CC | DI | DI | AI | NAS | FC | NAS | LR | NAS | FC | FC |
| Q26 | FC | FC | FC | FC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | CC | CC | AI | LR | LR | NAS | NAS |
| 27 | FC | FC | FC | GWR | GWR | CC | CO | CO | CC | TI | TI | TI | DI | TI | NAS | NAS | AI | NAS | NAS | LR | NAS | LR | NAS | FC |
| 28 | GWR | FC | GWR | FC | GWR | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | NAS | AI | AI | LR | LR | LR | LR | LR |
| 29 | LR | FC | LR | FC | FC | FC | LR | LR | LR | CC | CC | DI | TI | TI | TI | NAS | NAS | NAS | AI | AI | NAS | FC | FC | NAS |
| 30 | NAS | FC | FC | FC | FC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | NAS | AI | AI | FC | LR | FC | LR |
| 31 | NAS | NAS | DI | DI | CC | DI | CC | CC | CC | CC | CC | DI | DI | CC | CO | CO | AI | LR | AI | LR | NAS | NAS | FC | LR |

| IDENTIFICATION | GEOGRAPHIC LAT | GEOGRAPHIC LONG | GEOMAGNETIC LAT | GEOMAGNETIC LONG |
|---|---|---|---|---|
| AI = ABISKO | 68 21.5 | 18 49.4 | 66.0 | 114.9 |
| *BW = BARROW | 71 18.2 | -156 44.9 | 68.5 | 241.1 |
| CC = C.CHELYUSKIN | 77 43.0 | 104 17.0 | 66.2 | 176.4 |
| CO = COLLEGE | 64 51.6 | -147 50.2 | 64.6 | 256.5 |
| GWR= GREAT WHALE R. | 55 16.0 | -77 47.0 | 66.5 | 347.4 |
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| FC = FT.CHURCHILL | 58 48.0 | -94 06.0 | 68.7 | 322.8 |
| LR = LEIRVOGUR | 64 11.0 | -21 42.0 | 70.2 | 71.0 |
| NAS= NARSSARSSUAQ | 61 06.0 | -45 12.0 | 71.0 | 37.0 |
| TI = TIXIE BAY | 71 35.0 | 129 00.0 | 60.4 | 191.4 |
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| YEK= YELLOWKNIFE | 62 24.0 | 245 36.0 | 69.0 | 292.8 |

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TABLE OF OBSERVATORIES SUPPLYING HOURLY AL BASED ON MEAN VALUE

JANUARY 1975 AL = MINIMUM DELTA H

| UT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | AI | AI | AI | LR | LR | NAS | NAS | GWR | GWR | FC | FC | YEK | YEK | CC | CC | CC | CC | CC | GWR | DI | CC | CC | CC | CC |
| Q 2 | CC | AI | CC | AI | AI | AI | GWR | GWR | GWR | FC | YEK | YEK | GWR | YEK | CC | CC | GWR | GWR | DI | DI | DI | CC | AI | CO |
| 3 | LR | LR | NAS | GWR | NAS | GWR | GWR | GWR | GWR | FC | FC | FC | CO | CC | TI | TI | TI | DI | DI | DI | DI | DI | CC | AI |
| D 4 | AI | LR | LR | LR | NAS | NAS | NAS | NAS | GWR | GWR | CO | CO | CO | CO | CC | UE | DI | TI | TI | TI | TI | DI | DI | CC |
| 5 | CC | NAS | LR | LR | GWR | GWR | GWR | GWR | GWR | CO | CO | CO | CO | CC | UE | TI | CC | TI | TI | TI | DI | DI | CC | LR |
| 6 | LR | LR | NAS | NAS | GWR | GWR | FC | GWR | FC | FC | FC | CO | CC | CC | CC | CC | TI | DI | DI | TI | TI | TI | DI | AI |
| D 7 | DI | LR | AI | AI | GWR | FC | GWR | GWR | GWR | CO | CO | CO | CO | CC | CC | GWR | CC | DI | CC | CC | CC | LR | UE | AI |
| D 8 | LR | LR | NAS | LR | GWR | GWR | GWR | FC | GWR | GWR | CO | CC | UE | UE | UE | UE | TI | TI | TI | AI | DI | TI | CC | AI |
| 9 | AI | AI | NAS | GWR | GWR | GWR | GWR | GWR | FC | FC | FC | FC | CO | CO | CC | CC | TI | DI | CC | CC | DI | DI | CC | LR |
| 10 | NAS | NAS | NAS | NAS | NAS | FC | GWR | FC | FC | FC | FC | AI | CO | UE | GWR | GWR | GWR | GWR | GWR | DI | DI | CC | CC | LR |
| Q11 | LR | CC | NAS | NAS | GWR | GWR | GWR | NAS | FC | FC | FC | FC | NAS | NAS | GWR | CC | CC | DI | DI | DI | DI | CC | AI | CC |
| Q12 | LR | LR | NAS | NAS | GWR | GWR | GWR | GWR | AI | UE | UE | LR | LR | NAS | GWR | GWR | GWR | GWR | CC | DI | DI | UE | UE | AI |
| D13 | CC | LR | LR | AI | LR | LR | NAS | NAS | NAS | GWR | GWR | CO | CC | CO | CO | CC | TI | DI | DI | TI | TI | TI | TI | CC |
| D14 | CC | CC | AI | LR | NAS | LR | GWR | FC | GWR | GWR | FC | CO | CO | CO | CO | FC | TI | TI | DI | DI | TI | DI | CC | AI |
| 15 | AI | AI | LR | LR | GWR | GWR | GWR | GWR | GWR | GWR | GWR | CO | FC | FC | CC | CC | CC | DI | CC | DI | DI | DI | TI | AI |
| 16 | AI | CC | LR | LR | NAS | GWR | UE | GWR | GWR | GWR | FC | CO | FC | FC | CO | UE | TI | TI | DI | TI | TI | AI | DI | AI |
| 17 | CC | CC | GWR | LR | NAS | NAS | NAS | GWR | GWR | GWR | FC | FC | CO | CO | CC | CC | CC | DI | DI | DI | TI | AI | CC | CC |
| 18 | AI | CC | LR | NAS | NAS | NAS | GWR | GWR | GWR | GWR | FC | FC | FC | CO | CO | CC | CC | CC | TI | TI | AI | TI | AI | AI |
| 19 | LR | LR | LR | NAS | NAS | DI | GWR | GWR | GWR | UE | GWR | CO | CO | CO | CC | CC | CC | DI | DI | CC | DI | DI | CC | AI |
| 20 | AI | LR | LR | NAS | NAS | NAS | GWR | FC | FC | FC | UE | AI | CO | CO | CO | CO | TI | DI | DI | DI | DI | DI | DI | CC |
| 21 | CC | AI | UE | CO | LR | LR | LR | LR | FC | FC | FC | FC | FC | CC | CO | CC | CC | DI | DI | DI | CO | UE | CC | CO |
| 22 | UE | UE | UE | NAS | NAS | FC | GWR | FC | UE | AI | FC | FC | FC | UE | CC | CC | TI | TI | TI | CC | UE | DI | DI | CC |
| 23 | CC | AI | UE | NAS | NAS | GWR | GWR | FC | FC | FC | FC | FC | FC | CO | CC | TI | TI | TI | TI | DI | CC | CC | CC | AI |
| 24 | AI | LR | LR | NAS | NAS | NAS | AI | CO | GWR | GWR | GWR | FC | FC | AI | UE | CC | CC | CC | CC | DI | DI | DI | CC | UE |
| Q25 | AI | AI | NAS | NAS | CO | NAS | FC | FC | AI | AI | FC | FC | LR | CO | CO | CC | TI | DI | TI | UE | DI | CC | CC | CC |
| Q26 | CC | LR | LR | CO | AI | NAS | GWR | GWR | FC | FC | FC | FC | CC | CC | CC | CC | CC | DI | DI | DI | DI | DI | CC | AI |
| 27 | AI | NAS | NAS | NAS | NAS | NAS | NAS | GWR | GWR | GWR | GWR | FC | FC | LR | FC | DI | DI | TI | TI | TI | TI | TI | CC | AI |
| 28 | AI | LR | LR | LR | NAS | NAS | GWR | GWR | FC | FC | FC | FC | FC | FC | CC | CC | DI | TI | CC | DI | AI | AI | CC | CC |
| 29 | AI | AI | NAS | NAS | NAS | NAS | CO | CO | CO | FC | FC | FC | FC | FC | FC | CO | TI | DI | TI | DI | CO | CO | CC | AI |
| 30 | AI | LR | LR | CO | NAS | GWR | FC | FC | FC | GWR | FC | FC | AI | CO | CC | CC | TI | TI | DI | DI | DI | DI | DI | CC |
| 31 | CC | AI | AI | UE | NAS | NAS | FC | UE | UE | FC | FC | CO | FC | FC | AI | GWR | TI | TI | TI | TI | DI | TI | DI | CC |

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| TI = TIXIE BAY | 71 35.0 | 129 00.0 | 60.4 | 191.4 |
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FEBRUARY 1975 AU = MAXIMUM DELTA H

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D 1 | YEK | YEK | YEK | CO | CO | CO | CO | CC | LR | DI | DI | AI | AI | AI | AI | AI | AI | NAS | FC | LR | FC | FC | YEK | YEK |
| 2 | FC | YEK | YEK | CO | YEK | YEK | CC | CO | YEK | DI | DI | DI | DI | AI | NAS | NAS | NAS | AI | AI | NAS | YEK | NAS | FC | YEK |
| 3 | YEK | FC | YEK | YEK | YEK | YEK | CC | CO | CC | CC | CC | CC | DI | DI | DI | LR | NAS | NAS | NAS | NAS | DI | YEK | YEK | NAS |
| 4 | NAS | YEK | YEK | YEK | YEK | YEK | FC | YEK | CC | CC | NAS | CC | DI | DI | DI | AI | AI | NAS | NAS | YEK | YEK | NAS | LR | FC |
| 5 | YEK | YEK | YEK | YEK | YEK | YEK | CC | CC | CC | CC | DI | DI | DI | DI | FC | LR | AI | AI | FC | NAS | NAS | FC | YEK | YEK |
| Q 6 | YEK | YEK | FC | YEK | CC | YEK | YEK | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | NAS | AI | NAS | NAS | YEK | NAS | NAS |
| 7 | FC | YEK | YEK | YEK | YEK | CO | CC | CO | CC | TI | DI | DI | DI | DI | DI | LR | LR | LR | LR | LR | NAS | FC | FC | FC |
| Q 8 | FC | YEK | YEK | YEK | CC | CC | CC | CC | CC | LR | CC | DI | CC | FC | FC | YEK | LR | NAS | NAS | NAS | NAS | LR | YEK | YEK |
| 9 | FC | YEK | YEK | YEK | YEK | YEK | CO | LR | YEK | YEK | YEK | YEK | FC | YEK | DI | LR | NAS | DI | NAS | AI | AI | NAS | FC | YEK |
| D10 | YEK | YEK | YEK | CO | CO | UE | UE | UE | UE | UE | TI | TI | DI | TI | LR | NAS | LR | LR | NAS | LR | FC | FC | YEK | YEK |
| D11 | YEK | CO | CO | YEK | TI | CC | CC | CC | CC | CC | CC | DI | DI | DI | AI | AI | AI | LR | NAS | NAS | FC | FC | YEK | YEK |
| D12 | YEK | YEK | YEK | CO | CO | CO | CO | CO | TI | TI | DI | DI | DI | AI | AI | TI | LR | NAS | NAS | NAS | FC | FC | FC | FC |
| 13 | YEK | YEK | YEK | YEK | CO | CC | CC | CC | CC | CC | DI | DI | DI | DI | AI | DI | YEK | LR | NAS | NAS | FC | FC | NAS | FC |
| 14 | YEK | YEK | YEK | YEK | CO | CC | CC | CC | CC | CC | CC | DI | DI | FC | LR | AI | AI | NAS | NAS | NAS | FC | YEK | FC | FC |
| 15 | FC | FC | NAS | YEK | CO | CC | CC | CO | CC | CC | CC | DI | DI | AI | AI | LR | LR | LR | NAS | NAS | LR | FC | FC | YEK |
| 16 | YEK | YEK | YEK | YEK | YEK | CC | CO | CO | LR | CC | DI | DI | DI | AI | LR | AI | LR | NAS | NAS | NAS | LR | NAS | NAS | FC |
| 17 | YEK | FC | YEK | YEK | YEK | CC | CO | FC | CO | CC | TI | TI | DI | DI | TI | DI | NAS | LR | NAS | AI | NAS | NAS | FC | FC |
| 18 | YEK | YEK | YEK | YEK | CO | CC | CO | CO | CO | CC | NAS | NAS | DI | DI | DI | LR | DI | YEK | NAS | FC | NAS | NAS | LR | FC |
| 19 | FC | LR | FC | YEK | CO | CC | CO | CO | CC | CC | DI | DI | TI | CO | FC | YEK | YEK | LR | NAS | NAS | NAS | LR | FC | YEK |
| Q20 | YEK | FC | YEK | YEK | YEK | YEK | YEK | CC | CO | CC | CC | YEK | YEK | YEK | YEK | YEK | YEK | NAS | NAS | NAS | NAS | NAS | FC | FC |
| 21 | FC | NAS | YEK | YEK | YEK | YEK | YEK | CO | CO | CO | CC | CC | TI | TI | TI | DI | AI | AI | NAS | AI | NAS | YEK | YEK | YEK |
| Q22 | FC | FC | YEK | YEK | FC | YEK | YEK | YEK | CO | CO | CC | DI | TI | TI | TI | AI | NAS | AI | LR | AI | NAS | NAS | NAS | FC |
| D23 | FC | YEK | FC | FC | YEK | YEK | CO | CC | CO | UE | TI | AI | DI | DI | AI | AI | AI | AI | AI | NAS | NAS | NAS | FC | FC |
| 24 | YEK | YEK | YEK | YEK | YEK | CO | YEK | YEK | YEK | CO | CO | NAS | DI | DI | LR | AI | AI | AI | LR | NAS | NAS | NAS | LR | FC |
| 25 | FC | YEK | YEK | YEK | CO | CC | CO | CO | CC | CC | DI | DI | DI | AI | DI | LR | FC | NAS | NAS | NAS | NAS | NAS | NAS | FC |
| 26 | FC | YEK | YEK | YEK | YEK | YEK | LR | LR | CC | CC | CC | TI | TI | DI | DI | FC | NAS | LR | NAS | NAS | FC | FC | YEK | YEK |
| Q27 | YEK | YEK | YEK | YEK | YEK | YEK | CC | CC | LR | NAS | NAS | FC | FC | FC | DI | DI | DI | NAS | NAS | NAS | NAS | NAS | NAS | NAS |
| 28 | FC | FC | FC | YEK | YEK | YEK | YEK | LR | LR | CC | NAS | FC | YEK | TI | DI | NAS | NAS | AI | NAS | NAS | NAS | FC | FC | FC |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D 1 | AI | LR | LR | LR | LR | LR | NAS | YEK | CO | CO | CO | CO | CO | UE | UE | TI | TI | TI | DI | TI | AI | AI | AI | AI |
| 2 | LR | LR | LR | LR | NAS | NAS | YEK | FC | FC | FC | CO | CO | CO | CC | CC | CC | TI | TI | DI | DI | DI | CC | CC | CC |
| 3 | AI | LR | LR | LR | NAS | NAS | NAS | NAS | FC | FC | FC | FC | YEK | CC | CC | CC | TI | TI | DI | DI | CC | CC | CC | CC |
| 4 | DI | DI | LR | NAS | NAS | NAS | UE | UE | FC | FC | YEK | CO | YEK | YEK | YEK | TI | DI | DI | TI | TI | DI | CC | AI | AI |
| 5 | AI | CC | LR | NAS | NAS | NAS | FC | FC | FC | FC | CO | CO | CO | YEK | CC | CC | TI | DI | TI | DI | DI | AI | CC | AI |
| Q 6 | LR | LR | NAS | NAS | NAS | NAS | UE | YEK | FC | FC | FC | CO | YEK | UE | CC | CC | CC | CC | DI | DI | AI | DI | CC | AI |
| 7 | LR | LR | LR | NAS | NAS | NAS | NAS | FC | FC | CO | YEK | FC | CO | CO | YEK | TI | DI | CC | TI | TI | AI | AI | AI | AI |
| Q 8 | AI | LR | LR | LR | NAS | NAS | NAS | FC | YEK | FC | FC | YEK | YEK | YEK | CC | CC | CC | CC | CC | CC | CC | CC | UE | CC |
| 9 | CC | LR | NAS | LR | NAS | NAS | NAS | FC | CO | AI | AI | LR | LR | LR | CO | CO | CC | CC | CC | DI | TI | TI | DI | AI |
| D10 | CC | CC | LR | LR | LR | FC | LR | NAS | NAS | YEK | CC | CO | CO | CO | CO | CO | CO | DI | TI | TI | DI | DI | DI | DI |
| D11 | LR | LR | NAS | AI | LR | NAS | YEK | NAS | FC | FC | CO | CO | CO | YEK | YEK | TI | TI | TI | DI | TI | TI | AI | DI | AI |
| D12 | AI | AI | AI | LR | FC | FC | YEK | NAS | NAS | NAS | CO | CO | FC | UE | CO | CC | TI | TI | TI | TI | AI | DI | DI | NAS |
| 13 | LR | AI | LR | LR | FC | NAS | YEK | NAS | NAS | YEK | YEK | CO | CO | CO | CC | TI | TI | DI | TI | TI | DI | CC | CC | CC |
| 14 | LR | AI | LR | LR | LR | FC | NAS | NAS | YEK | YEK | FC | CO | CO | YEK | YEK | TI | TI | TI | TI | TI | TI | AI | LR | AI |
| 15 | AI | LR | UE | LR | FC | NAS | NAS | NAS | NAS | FC | CO | CO | CO | CO | CC | CC | TI | DI | TI | TI | DI | AI | AI | AI |
| 16 | AI | AI | AI | FC | LR | NAS | NAS | FC | FC | FC | CO | YEK | CO | UE | CC | CO | TI | DI | DI | TI | AI | AI | AI | AI |
| 17 | AI | CC | CC | LR | NAS | NAS | NAS | NAS | YEK | YEK | FC | FC | CO | CC | CC | CC | CC | DI | DI | DI | DI | DI | DI | CC |
| 18 | CC | LR | LR | LR | NAS | NAS | NAS | NAS | NAS | YEK | CO | CO | FC | CO | YEK | YEK | CC | CC | TI | DI | DI | DI | AI | AI |
| 19 | AI | UE | UE | LR | NAS | NAS | NAS | NAS | CO | CO | YEK | FC | FC | YEK | TI | TI | TI | TI | DI | DI | DI | CC | AI | AI |
| Q20 | LR | UE | NAS | NAS | NAS | NAS | DI | YEK | YEK | YEK | YEK | AI | LR | LR | CC | CC | CC | CC | CC | DI | DI | CC | CC | CC |
| 21 | CC | UE | LR | LR | NAS | NAS | NAS | FC | YEK | YEK | FC | FC | CO | YEK | YEK | CC | YEK | TI | DI | DI | CC | UE | CC | CC |
| Q22 | AI | LR | LR | NAS | CC | CC | NAS | DI | FC | YEK | FC | CO | YEK | CO | YEK | TI | TI | TI | DI | CC | DI | DI | AI | |
| D23 | CC | NAS | LR | NAS | NAS | FC | FC | NAS | NAS | NAS | FC | CO | CO | FC | TI | DI | DI | TI | TI | TI | UE | AI | AI | AI |
| 24 | AI | LR | LR | LR | NAS | NAS | DI | AI | DI | AI | FC | AI | CO | CO | YEK | TI | TI | TI | TI | AI | AI | AI | AI | AI |
| 25 | LR | LR | LR | NAS | FC | FC | NAS | NAS | CO | CO | CO | CO | CO | CO | YEK | TI | DI | CC | TI | DI | CC | AI | DI | AI |
| 26 | AI | LR | LR | NAS | NAS | TI | YEK | YEK | FC | YEK | YEK | FC | YEK | CC | CC | CC | DI | DI | DI | DI | CC | CO | UE | UE |
| Q27 | UE | UE | CC | CC | NAS | NAS | YEK | FC | YEK | YEK | YEK | AI | AI | NAS | CC | CC | YEK | CO | DI | CC | CC | CC | | |
| 28 | LR | LR | NAS | NAS | NAS | GWR | GWR | GWR | FC | FC | YEK | DI | AI | GWR | YEK | YEK | CC | GWR | GWR | DI | TI | DI | AI | AI |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | YEK | YEK | YEK | YEK | YEK | CC | CC | CC | CC | CC | DI | TI | GWR | FC | DI | LR | AI | NAS | NAS | NAS | GWR | GWR | NAS | LR |
| 2 | FC | YEK | YEK | YEK | CO | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | YEK | AI | NAS | AI | NAS | NAS | NAS | FC | NAS |
| 3 | YEK | FC | FC | CO | YEK | AI | YEK | YEK | TI | CC | CC | CC | CC | DI | DI | AI | AI | AI | NAS | NAS | NAS | NAS | FC | FC |
| 4 | YEK | FC | YEK | YEK | GWR | YEK | CO | CC | CC | CC | CC | CC | CC | DI | DI | FC | DI | NAS | NAS | NAS | NAS | NAS | NAS | GWR |
| 5 | FC | FC | YEK | CO | CO | CO | UE | CC | TI | TI | DI | DI | TI | CC | LR | LR | LR | LR | NAS | NAS | LR | FC | FC | FC |
| 6 | GWR | GWR | YEK | YEK | CC | CC | CO | CC | DI | DI | TI | DI | DI | DI | AI | LR | LR | LR | NAS | CO | FC | FC | FC | DI |
| Q 7 | CO | FC | CO | AI | CO | CC | CC | CC | CC | CC | NAS | CC | CC | CC | CO | AI | CO | DI | CO | NAS | FC | NAS | NAS | NAS |
| Q 8 | NAS | NAS | FC | FC | CO | FC | FC | TI | FC | TI | TI | CO | TI | TI | AI | LR | CC | CC | AI | NAS | NAS | LR | NAS | NAS |
| 9 | NAS | NAS | FC | FC | GWR | FC | FC | TI | TI | CO | FC | CC | CC | CC | DI | DI | NAS | NAS | NAS | AI | LR | FC | FC | GWR |
| D10 | GWR | CO | CO | CO | CO | UE | UE | UE | UE | TI | DI | AI | AI | AI | AI | AI | LR | LR | GWR | GWR | GWR | CC | GWR | CO |
| D11 | CO | CO | UE | UE | UE | DI | UE | TI | DI | DI | DI | DI | DI | AI | AI | AI | LR | NAS | NAS | NAS | NAS | GWR | GWR | GWR |
| D12 | GWR | GWR | UE | CO | CC | CC | LR | CC | TI | DI | DI | DI | AI | DI | AI | LR | NAS | LR | NAS | NAS | GWR | GWR | GWR | GWR |
| 13 | FC | UE | DI | GWR | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | AI | LR | LR | LR | GWR | LR | NAS | NAS | GWR | GWR |
| 14 | GWR | DI | FC | DI | CC | CC | CC | CC | CC | CC | CC | DI | DI | AI | AI | AI | LR | LR | LR | GWR | FC | FC | GWR | GWR |
| 15 | YEK | YEK | YEK | GWR | YEK | CC | CC | CC | CC | CC | CC | DI | DI | AI | AI | AI | NAS | NAS | LR | NAS | FC | GWR | NAS | NAS |
| 16 | YEK | YEK | YEK | YEK | CO | CO | CC | CC | DI | DI | TI | TI | TI | DI | DI | AI | AI | AI | CO | LR | LR | LR | YEK | FC |
| 17 | YEK | YEK | CO | CO | CO | LR | CC | CC | CC | CC | CC | CC | CC | CC | DI | LR | YEK | NAS | NAS | NAS | NAS | NAS | FC | FC |
| 18 | YEK | GWR | GWR | YEK | CC | CO | CC | CC | CO | CC | CC | DI | DI | DI | DI | AI | LR | NAS | LR | NAS | GWR | GWR | FC | GWR |
| 19 | YEK | FC | GWR | YEK | YEK | GWR | CO | CO | CO | CC | CC | CC | DI | DI | DI | DI | LR | AI | LR | NAS | NAS | GWR | GWR | GWR |
| 20 | GWR | DI | YEK | YEK | YEK | CO | CO | CO | CO | CO | DI | TI | DI | DI | AI | AI | LR | NAS | LR | LR | NAS | FC | FC | FC |
| Q21 | GWR | NAS | CC | YEK | YEK | YEK | LR | CO | NAS | CC | CC | CC | CC | CC | CO | CO | DI | AI | NAS | NAS | NAS | LR | NAS | NAS |
| Q22 | NAS | NAS | NAS | NAS | AI | CO | CO | CO | CO | CO | CO | CO | CO | UE | CO | CO | CO | CO | NAS | NAS | NAS | NAS | NAS | GWR |
| 23 | GWR | YEK | YEK | CO | CO | CO | CO | CO | UE | CC | CC | DI | CC | DI | DI | DI | CO | NAS | NAS | NAS | NAS | NAS | NAS | NAS |
| 24 | DI | YEK | GWR | GWR | GWR | GWR | YEK | YEK | CO | CC | TI | DI | TI | AI | AI | AI | AI | LR | NAS | NAS | NAS | GWR | TI | CC |
| Q25 | CC | YEK | GWR | YEK | YEK | CO | CO | CO | CO | CO | CC | CC | TI | TI | TI | CO | LR | LR | NAS | GWR | GWR | GWR | GWR | YEK |
| 26 | CC | CC | YEK | YEK | YEK | YEK | YEK | YEK | CO | CO | TI | DI | DI | DI | DI | AI | AI | NAS | NAS | NAS | NAS | NAS | NAS | GWR |
| D27 | YEK | YEK | YEK | YEK | GWR | CC | CC | CO | CC | CC | DI | TI | DI | LR | LR | LR | LR | LR | LR | NAS | NAS | GWR | YEK | YEK |
| D28 | GWR | YEK | NAS | YEK | CC | CC | CC | TI | DI | TI | DI | DI | AI | AI | AI | AI | LR | AI | NAS | NAS | NAS | GWR | GWR | YEK |
| 29 | NAS | YEK | YEK | CC | CC | CO | CC | CC | CC | DI | DI | DI | DI | CI | AI | NAS | NAS | LR | NAS | NAS | NAS | GWR | NAS | GWR |
| 30 | GWR | YEK | YEK | YEK | YEK | CO | CC | CC | CC | CC | CC | DI | DI | CC | DI | DI | LR | NAS | NAS | NAS | NAS | NAS | GWR | GWR |
| 31 | YEK | YEK | YEK | CO | CO | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | LR | LR | NAS | NAS | NAS | GWR | GWR | NAS | YEK |

| IDENTIFICATION | GEOGRAPHIC LAT | GEOGRAPHIC LONG | GEOMAGNETIC LAT | GEOMAGNETIC LONG |
|---|---|---|---|---|
| AI = ABISKO | 68 21.5 | 18 49.4 | 66.0 | 114.9 |
| *BW = BARROW | 71 18.2 | -156 44.9 | 68.5 | 241.1 |
| CC = C.CHELYUSKIN | 77 43.0 | 104 17.0 | 66.2 | 176.4 |
| CO = COLLEGE | 64 51.6 | -147 50.2 | 64.6 | 256.5 |
| GWR= GREAT WHALE R. | 55 16.0 | -77 47.0 | 66.5 | 347.4 |
| DI = DIXON ISLAND | 73 32.6 | 80 33.7 | 63.0 | 161.5 |

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|---|---|---|---|---|
| FC = FT.CHURCHILL | 58 48.0 | -94 06.0 | 68.7 | 322.8 |
| LR = LEIRVOGUR | 64 11.0 | -21 42.0 | 70.2 | 71.0 |
| NAS= NARSSARSSUAQ | 61 06.0 | -45 12.0 | 71.0 | 37.0 |
| TI = TIXIE BAY | 71 35.0 | 129 00.0 | 60.4 | 191.4 |
| UE = CAPE WELLEN | 66 09.8 | -169 50.1 | 61.7 | 237.0 |
| YEK= YELLOWKNIFE | 62 24.0 | 245 36.0 | 69.0 | 292.8 |

*THE ONLY OBSERVATORY NOT PROVIDING DATA FOR THIS MONTH.

TABLE OF OBSERVATORIES SUPPLYING HOURLY AL BASED ON MEAN VALUE

MARCH 1975 AL = MINIMUM DELTA H

| UT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LR | LR | LR | LR | FC | GWR | GWR | FC | FC | FC | FC | CC | UE | CC | CC | CC | CC | TI | TI | TI | TI | AI | AI | CC |
| 2 | LR | LR | LR | NAS | NAS | GWR | GWR | FC | GWR | FC | FC | CO | CO | CO | CC | CC | CC | DI | DI | DI | DI | DI | LR | AI |
| 3 | LR | LR | NAS | NAS | NAS | GWR | GWR | FC | FC | FC | YEK | YEK | CO | CO | CO | CC | TI | DI | DI | DI | DI | DI | AI | AI |
| 4 | LR | LR | LR | NAS | NAS | NAS | GWR | GWR | FC | FC | CO | YEK | YEK | CO | YEK | GWR | GWR | DI | CC | CC | DI | CC | DI | DI |
| 5 | CC | CC | LR | LR | LR | LR | NAS | FC | CO | GWR | CO | YEK | YEK | YEK | CO | CO | TI | TI | TI | DI | TI | DI | LR | LR |
| 6 | AI | CO | LR | GWR | GWR | NAS | NAS | GWR | GWR | CO | CO | FC | CO | CO | CO | CO | CO | TI | TI | DI | DI | DI | LR | NAS |
| Q 7 | NAS | NAS | NAS | NAS | GWR | FC | FC | FC | FC | FC | AI | AI | LR | GWR | GWR | GWR | GWR | GWR | FC | DI | CO | DI | CO | CO |
| Q 8 | UE | UE | TI | TI | TI | CC | DI | CC | DI | NAS | AI | LR | NAS | NAS | NAS | GWR | GWR | GWR | DI | CO | CC | CC | CO | CO |
| 9 | CO | UE | TI | NAS | NAS | DI | DI | DI | DI | AI | AI | LR | NAS | NAS | GWR | GWR | GWR | TI | DI | DI | DI | CC | AI | AI |
| D10 | LR | AI | AI | AI | LR | LR | LR | GWR | NAS | CO | CO | GWR | CO | UE | CO | UE | CO | UE | AI | TI | TI | TI | TI | LR |
| D11 | AI | AI | NAS | LR | GWR | LR | LR | CO | GWR | GWR | CO | CO | CO | CO | CO | CC | DI | TI | TI | TI | TI | TI | LR | AI | AI |
| D12 | LR | LR | GWR | LR | LR | GWR | GWR | GWR | GWR | CO | CO | CC | CO | CO | CO | CO | CO | TI | DI | TI | TI | AI | DI | LR |
| 13 | CC | AI | LR | NAS | NAS | CO | GWR | GWR | GWR | CO | CO | CO | CO | CO | CC | CO | TI | TI | TI | TI | AI | AI | AI | AI |
| 14 | CC | CO | LR | NAS | NAS | GWR | NAS | NAS | GWR | FC | FC | CO | CO | CO | CO | CO | TI | TI | TI | TI | AI | AI | DI | AI |
| 15 | AI | LR | LR | CO | LR | GWR | GWR | GWR | GWR | YEK | FC | CO | CO | CO | CO | DI | DI | TI | TI | DI | DI | AI | AI | AI |
| 16 | LR | LR | LR | GWR | NAS | NAS | GWR | GWR | NAS | YEK | FC | GWR | CO | CO | CO | CO | YEK | TI | TI | DI | DI | AI | AI | AI |
| 17 | AI | AI | GWR | LR | LR | DI | GWR | GWR | GWR | YEK | CO | CO | FC | YEK | CC | CC | DI | DI | DI | DI | DI | AI | AI | AI |
| 18 | AI | LR | LR | TI | FC | GWR | GWR | GWR | GWR | FC | FC | CO | CO | YEK | YEK | CO | CO | TI | TI | TI | TI | AI | DI | AI |
| 19 | LR | LR | LR | LR | FC | FC | FC | FC | GWR | FC | FC | FC | FC | CO | CO | CC | TI | TI | TI | DI | DI | AI | AI | AI |
| 20 | AI | CO | TI | NAS | NAS | GWR | GWR | GWR | GWR | GWR | GWR | CO | CO | CO | CO | CO | TI | TI | TI | TI | DI | DI | DI | AI |
| Q21 | AI | LR | UE | NAS | NAS | GWR | GWR | YEK | DI | AI | YEK | YEK | YEK | NAS | GWR | GWR | CC | CC | YEK | YEK | CO | CO | CO | CO |
| Q22 | CO | CO | UE | TI | CC | CC | CC | CC | CC | AI | AI | AI | LR | LR | LR | GWR | GWR | GWR | GWR | GWR | YEK | CC | AI |
| 23 | AI | LR | LR | LR | LR | LR | NAS | NAS | GWR | GWR | CO | CO | YEK | YEK | YEK | TI | TI | DI | DI | DI | DI | AI | CC | CO |
| 24 | CO | UE | UE | TI | CC | DI | DI | DI | GWR | GWR | GWR | GWR | CO | CO | TI | UE | TI | DI | TI | DI | AI | AI | LR | NAS |
| Q25 | CO | LR | LR | LR | NAS | NAS | AI | YEK | GWR | AI | CO | CO | CO | YEK | YEK | YEK | YEK | TI | CC | CC | CC | AI | AI | AI |
| 26 | UE | UE | NAS | NAS | NAS | NAS | DI | DI | GWR | GWR | GWR | CO | CO | CO | YEK | TI | TI | TI | TI | DI | DI | AI | AI | LR |
| D27 | LR | LR | LR | LR | NAS | YEK | YEK | GWR | GWR | GWR | CO | CO | CO | CO | CO | CO | CO | CO | CO | TI | TI | LR | LR | LR |
| D28 | AI | LR | LR | LR | GWR | NAS | NAS | YEK | GWR | GWR | CO | CO | UE | CO | CO | DI | TI | TI | TI | DI | DI | AI | AI | LR |
| 29 | LR | LR | LR | NAS | NAS | GWR | GWR | GWR | GWR | CO | GWR | CO | CO | YEK | CO | TI | TI | DI | TI | AI | AI | DI | AI | AI |
| 30 | LR | NAS | NAS | NAS | NAS | GWR | GWR | GWR | YEK | YEK | YEK | CO | CO | YEK | YEK | CC | CC | DI | DI | DI | DI | DI | LR | LR |
| 31 | LR | LR | LR | LR | LR | NAS | GWR | YEK | GWR | DI | LR | CO | CO | CO | CO | CO | DI | DI | DI | DI | UE | CO | CO | LR |

| IDENTIFICATION | GEOGRAPHIC LAT | GEOGRAPHIC LONG | GEOMAGNETIC LAT | GEOMAGNETIC LONG |
|---|---|---|---|---|
| AI = ABISKO | 68 21.5 | 18 49.4 | 66.0 | 114.9 |
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| GWR= GREAT WHALE R. | 55 16.0 | -77 47.0 | 66.5 | 347.4 |
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|---|---|---|---|---|
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TABLE OF OBSERVATORIES SUPPLYING HOURLY AU BASED ON MEAN VALUE

APRIL 1975 AU = MAXIMUM DELTA H

| UT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FC | FC | AI | AI | AI | CO | CO | CC | CO | CC | CC | CC | CC | DI | DI | DI | LR | NAS | NAS | NAS | NAS | NAS | NAS | NAS |
| 2 | GWR | GWR | FC | FC | GWR | NAS | NAS | NAS | GWR | GWR | GWR | GWR | CC | CC | UE | UE | DI | NAS | AI | NAS | NAS | NAS | NAS | NAS |
| 3 | GWR | CC | CC | GWR | LR | GWR | GWR | CO | CO | CO | CC | CC | CC | DI | DI | DI | AI | AI | NAS | NAS | NAS | NAS | NAS | GWR |
| 4 | GWR | GWR | GWR | GWR | AI | NAS | NAS | CC | CO | CC | CC | CC | DI | DI | DI | AI | LR | LR | AI | NAS | NAS | NAS | NAS | GWR |
| 5 | GWR | GWR | GWR | GWR | LR | UE | CO | CO | CC | CC | CC | CC | CC | CC | TI | DI | LR | AI | LR | NAS | NAS | NAS | GWR | GWR |
| 6 | GWR | DI | GWR | GWR | AI | CO | CO | CO | CC | CC | CC | CC | TI | DI | DI | AI | AI | NAS | NAS | NAS | NAS | NAS | GWR | GWR | NAS |
| 7 | GWR | GWR | GWR | CO | GWR | GWR | CC | CO | CC | CC | CC | DI | DI | DI | CO | LR | CO | LR | NAS | NAS | GWR | GWR | GWR | GWR |
| D 8 | GWR | CO | CO | DI | CC | CO | CC | CO | CC | DI | TI | TI | DI | AI | AI | LR | LR | NAS | LR | GWR | GWR | NAS | DI | GWR |
| D 9 | CO | CO | CO | CO | CO | UE | UE | JE | TI | DI | DI | DI | AI | AI | AI | AI | NAS | GWR | NAS | GWR | GWR | GWR | GWR | GWR |
| D10 | GWR | CO | CO | CO | CO | CO | CO | CC | CC | TI | DI | DI | DI | DI | DI | LR | AI | NAS | NAS | LR | NAS | GWR | GWR | GWR |
| D11 | YEK | YEK | CO | YEK | CO | CC | CC | CO | CC | DI | AI | AI | AI | DI | AI | LR | NAS | LR | NAS | NAS | NAS | NAS | GWR | GWR |
| 12 | GWR | YEK | YEK | YEK | YEK | CO | CC | CO | CC | DI | DI | TI | TI | DI | LR | AI | AI | LR | NAS | NAS | NAS | GWR | GWR | GWR |
| D13 | CO | CO | CO | CO | CO | CC | CC | DI | TI | CO | CC | CC | DI | AI | AI | DI | NAS | DI | NAS | LR | NAS | GWR | GWR | GWR |
| 14 | YEK | CO | CO | CO | CO | CC | CO | LR | LR | CC | CC | DI | DI | DI | DI | LR | LR | LR | LR | NAS | GWR | NAS | GWR | GWR |
| 15 | YEK | GWR | YEK | GWR | YEK | YEK | YEK | CC | CC | CC | CC | CC | CC | DI | DI | AI | LR | AI | NAS | NAS | NAS | NAS | NAS | GWR |
| 16 | GWR | GWR | YEK | YEK | YEK | YEK | TI | CO | CC | CC | CC | CC | CC | CC | UE | DI | LR | NAS | NAS | NAS | NAS | NAS | NAS | GWR |
| Q17 | GWR | GWR | GWR | GWR | YEK | YEK | YEK | YEK | CC | CC | CC | CC | CC | CC | CO | CC | LR | AI | LR | NAS | NAS | NAS | NAS | NAS |
| 18 | NAS | GWR | GWR | YEK | YEK | YEK | YEK | CO | CO | GWR | CC | TI | TI | DI | DI | DI | LR | LR | LR | LR | LR | LR | GWR | GWR |
| Q19 | GWR | GWR | GWR | YEK | YEK | CO | CO | CO | CO | CC | CC | TI | DI | DI | DI | CC | CC | LR | AI | GWR | LR | GWR | GWR | GWR |
| 20 | GWR | GWR | GWR | GWR | GWR | YEK | YEK | CO | CC | CC | CC | CC | CC | DI | DI | AI | AI | LR | LR | GWR | GWR | GWR | GWR | YEK |
| 21 | YEK | CO | CO | YEK | GWR | LR | NAS | TI | CO | CO | TI | TI | TI | TI | LR | LR | AI | LR | NAS | NAS | GWR | NAS | NAS | NAS |
| 22 | YEK | YEK | YEK | YEK | CO | CO | CO | CC | CC | YEK | GWR | CO | CC | DI | DI | DI | NAS | NAS | NAS | NAS | LR | FC | FC | FC |
| 23 | YEK | YEK | YEK | YEK | CO | CC | CO | CC | CC | CC | DI | TI | TI | TI | DI | LR | LR | AI | NAS | NAS | NAS | GWR | GWR | YEK |
| 24 | YEK | YEK | YEK | CO | YEK | CO | CO | CC | CC | CC | DI | CC | DI | CC | DI | AI | LR | NAS | NAS | LR | FC | NAS | FC | GWR |
| 25 | YEK | YEK | GWR | YEK | CO | YEK | YEK | CO | CC | CC | CC | CC | CC | DI | DI | AI | AI | NAS | NAS | NAS | GWR | NAS | NAS | FC |
| 26 | YEK | GWR | YEK | YEK | AI | YEK | FC | YEK | NAS | CC | CC | CC | CC | CC | DI | LR | LR | LR | NAS | NAS | NAS | NAS | FC | YEK |
| Q27 | YEK | FC | FC | YEK | CO | CC | YEK | TI | NAS | CC | CC | CC | CC | DI | DI | NAS | LR | NAS | NAS | NAS | NAS | NAS | NAS | FC |
| Q28 | FC | FC | FC | FC | FC | YEK | YEK | YEK | YEK | GWR | GWR | GWR | CC | CC | CO | CO | DI | NAS | NAS | NAS | NAS | NAS | NAS | NAS |
| Q29 | GWR | GWR | GWR | YEK | YEK | YEK | YEK | YEK | CO | CC | CC | CC | CC | CC | TI | LR | DI | NAS | NAS | LR | NAS | NAS | NAS | FC |
| 30 | NAS | YEK | YEK | YEK | YEK | YEK | CO | CO | CO | CC | CC | CC | CC | FC | DI | DI | DI | LR | LR | NAS | NAS | NAS | FC | FC |

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| CO = COLLEGE | 64 51.6 | -147 50.2 | 64.6 | 256.5 |
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TABLE OF OBSERVATORIES SUPPLYING HOURLY AL BASED ON MEAN VALUE

APRIL 1975 AL = MINIMUM DELTA-H

| UT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | LR | LR | CO | NAS | NAS | DI | FC | FC | FC | FC | CO | FC | FC | FC | CC | FC | DI | CC | DI | CC | CC | DI | CC | LR |
| 2 | LR | LR | NAS | NAS | CC | DI | DI | DI | DI | DI | AI | LR | LR | LR | FC | GWR | FC | FC | DI | DI | DI | DI | DI | AI |
| 3 | LR | LR | NAS | NAS | GWR | DI | DI | GWR | GWR | DI | AI | LR | LR | LR | CC | CC | CC | GWR | DI | DI | DI | DI | CC | LR |
| 4 | LR | NAS | NAS | NAS | NAS | DI | DI | GWR | GWR | GWR | GWR | AI | CO | CO | CO | DI | CC | CC | DI | DI | DI | DI | CC | AI |
| 5 | AI | LR | NAS | NAS | CO | DI | GWR | GWR | GWR | GWR | AI | LR | LR | LR | GWR | GWR | TI | TI | TI | TI | DI | DI | DI | CC |
| 6 | LR | NAS | NAS | NAS | NAS | GWR | GWR | GWR | GWR | GWR | GWR | CO | CO | CO | CO | CO | TI | TI | TI | UE | TI | DI | TI | CC |
| 7 | LR | LR | TI | NAS | NAS | DI | GWR | GWR | AI | AI | AI | CO | CO | CO | DI | TI | TI | TI | DI | TI | TI | TI | TI | LR |
| D 8 | AI | AI | LR | GWR | NAS | GWR | GWR | GWR | GWR | CO | CO | GWR | CO | CO | DI | CO | CO | TI | TI | TI | DI | CC | LR | LR |
| D 9 | AI | LR | LR | LR | LR | LR | LR | NAS | NAS | GWR | GWR | UE | CO | CO | CO | TI | CO | DI | TI | TI | TI | TI | DI | AI |
| D10 | AI | AI | LR | LR | LR | LR | GWR | GWR | GWR | CO | CO | CO | CO | CO | CC | TI | TI | TI | TI | CC | DI | AI | DI | DI |
| D11 | CC | LR | LR | NAS | NAS | GWR | GWR | NAS | GWR | GWR | GWR | CO | CO | YEK | YEK | CC | TI | TI | TI | DI | AI | AI | DI | DI |
| 12 | LR | LR | LR | NAS | NAS | NAS | GWR | GWR | GWR | CO | GWR | YEK | YEK | CC | TI | CO | TI | TI | DI | DI | DI | AI | AI | CC |
| D13 | AI | AI | AI | LR | GWR | YEK | NAS | GWR | GWR | AI | CO | CO | CO | CC | CC | TI | YEK | YEK | DI | DI | DI | DI | AI | AI |
| 14 | AI | LR | LR | NAS | NAS | GWR | NAS | NAS | DI | YEK | YEK | YEK | CO | CC | YEK | YEK | TI | TI | TI | DI | DI | CC | AI | LR |
| 15 | LR | LR | NAS | NAS | NAS | NAS | NAS | GWR | GWR | YEK | YEK | YEK | YEK | YEK | YEK | CC | TI | TI | TI | TI | AI | DI | CC | CC |
| 16 | LR | LR | LR | NAS | GWR | GWR | GWR | GWR | GWR | AI | YEK | YEK | YEK | LR | AI | YEK | CC | DI | CC | CC | CC | CO | CO | CO |
| Q17 | CO | NAS | NAS | NAS | CC | CC | DI | DI | YEK | YEK | YEK | YEK | YEK | AI | LR | YEK | TI | CC | TI | YEK | YEK | CO | UE | UE |
| 18 | CO | CO | TI | TI | NAS | CC | DI | DI | DI | AI | AI | CO | YEK | NAS | NAS | NAS | NAS | TI | DI | CC | CC | NAS | CC | NAS |
| Q19 | LR | LR | LR | CC | GWR | GWR | GWR | GWR | GWR | GWR | GWR | AI | CO | CO | YEK | YEK | TI | YEK | DI | DI | DI | CO | CO | UE |
| 20 | UE | UE | TI | TI | TI | CC | DI | GWR | GWR | GWR | CO | YEK | NAS | CO | CO | YEK | TI | TI | TI | TI | TI | TI | TI | AI |
| 21 | AI | AI | LR | NAS | NAS | DI | DI | DI | NAS | NAS | NAS | NAS | CO | CO | CO | CO | TI | TI | DI | DI | TI | CC | AI | UE |
| 22 | LR | LR | LR | NAS | NAS | GWR | GWR | GWR | GWR | AI | CO | AI | AI | CO | CO | YEK | DI | DI | DI | DI | DI | AI | AI | CC |
| 23 | LR | LR | LR | NAS | LR | GWR | GWR | NAS | GWR | GWR | CO | YEK | YEK | YEK | YEK | TI | CO | TI | TI | AI | AI | DI | AI | LR |
| 24 | NAS | LR | LR | GWR | NAS | NAS | YEK | GWR | GWR | GWR | CO | CO | YEK | YEK | YEK | TI | TI | DI | TI | DI | DI | DI | DI | LR |
| 25 | LR | NAS | NAS | NAS | GWR | GWR | DI | YEK | GWR | GWR | YEK | AI | YEK | CO | YEK | YEK | TI | CC | DI | DI | CO | CC | CO | CC |
| 26 | LR | LR | NAS | GWR | GWR | CC | DI | DI | DI | FC | FC | YEK | YEK | YEK | CC | CC | YEK | CC | CC | CC | DI | AI | AI | UE |
| Q27 | CC | TI | NAS | GWR | GWR | NAS | FC | DI | DI | AI | YEK | YEK | YEK | YEK | CC | CC | CC | DI | CC | CC | CC | CC | CC | LR |
| Q28 | UE | NAS | NAS | TI | CC | CC | CC | DI | DI | AI | AI | AI | AI | NAS | LR | GWR | YEK | CC | DI | DI | CC | UE | CC | TI |
| Q29 | TI | NAS | CC | CC | CC | CC | DI | DI | DI | AI | YEK | YEK | YEK | AI | LR | GWR | CC | CC | CC | CO | CO | UE | TI | |
| 30 | UE | UE | TI | CC | CC | CC | GWR | GWR | GWR | GWR | FC | FC | AI | LR | YEK | CC | CC | DI | DI | DI | DI | CC | CC | CC |

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| NAS= NARSSARSSUAQ | 61 06.0 | -45 12.0 | 71.0 | 37.0 |
| TI = TIXIE BAY | 71 35.0 | 129 00.0 | 60.4 | 191.4 |
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TABLE OF OBSERVATORIES SUPPLYING HOURLY AU BASED ON MEAN VALUE

MAY 1975 AU = MAXIMUM DELTA H

| UT | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | FC | DI | FC | YEK | YEK | YEK | CO | CO | CO | CO | CO | CC | DI | DI | DI | DI | LR | LR | LR | NAS | NAS | NAS | FC | FC |
| 2 | FC | FC | FC | YEK | YEK | CO | CC | CO | CO | TI | TI | TI | DI | AI | LR | LR | LR | LR | GWR | FC | GWR | FC | GWR | |
| 3 | FC | YEK | YEK | CO | CO | CO | CO | CO | CC | CC | DI | AI | AI | AI | AI | DI | NAS | AI | NAS | LR | FC | FC | FC | GWR |
| 4 | YEK | YEK | YEK | YEK | YEK | CC | CO | CC | CC | CC | TI | TI | DI | AI | CC | LR | AI | NAS | NAS | NAS | NAS | FC | FC | GWR |
| 5 | CO | YEK | CO | CO | CC | CO | CC | TI | CC | TI | TI | TI | TI | DI | DI | DI | AI | LR | NAS | GWR | GWR | GWR | GWR | YEK |
| 6 | CO | YEK | CO | CO | CO | CO | CO | TI | TI | TI | TI | TI | TI | AI | LR | LR | LR | LR | NAS | NAS | FC | GWR | FC | YEK |
| Q 7 | FC | YEK | YEK | YEK | CC | AI | CC | CO | CC | CC | DI | TI | TI | AI | LR | NAS | AI | LR | NAS | NAS | NAS | FC | FC | FC |
| Q 8 | YEK | YEK | CO | YEK | CO | CO | CC | CC | CC | CC | CC | DI | CC | DI | DI | LR | LR | NAS | NAS | LR | GWR | FC | FC | DI |
| 9 | YEK | YEK | YEK | YEK | YEK | YEK | CC | CC | CC | CC | TI | CC | CC | TI | AI | LR | LR | LR | LR | NAS | NAS | FC | FC | GWR |
| D10 | GWR | YEK | CO | CO | CO | CC | CO | CC | CC | CC | CC | DI | DI | AI | LR | AI | LR | LR | NAS | NAS | FC | GWR | FC | NAS |
| D11 | DI | YEK | FC | YEK | YEK | YEK | YEK | YEK | TI | CC | CC | CC | CC | CC | TI | DI | NAS | LR | LR | LR | LR | NAS | NAS | DI |
| D12 | FC | YEK | FC | YEK | YEK | YEK | CO | TI | UE | TI | YEK | TI | TI | TI | CC | CC | CC | CC | CC | LR | NAS | LR | DI | DI |
| 13 | DI | YEK | YEK | YEK | YEK | YEK | YEK | YEK | CC | CC | CC | CC | CC | CC | CC | UE | NAS | NAS | NAS | NAS | NAS | FC | FC | FC |
| 14 | YEK | YEK | CO | CO | CO | CO | CO | CO | TI | TI | TI | TI | DI | DI | DI | DI | AI | LR | LR | NAS | NAS | FC | FC | DI |
| 15 | DI | FC | FC | YEK | YEK | CO | CC | CC | CC | CC | CC | CC | CC | CC | CC | DI | DI | LR | NAS | NAS | LR | NAS | LR | DI | FC |
| 16 | FC | FC | FC | YEK | CO | YEK | CO | UE | TI | CC | CC | DI | AI | AI | AI | AI | LR | LR | NAS | NAS | NAS | FC | GWR | GWR |
| 17 | YEK | YEK | YEK | YEK | CO | CO | CC | CC | CC | CC | CC | CC | DI | AI | DI | DI | LR | LR | NAS | NAS | NAS | NAS | NAS | FC |
| 18 | FC | GWR | YEK | YEK | CO | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | LR | NAS | NAS | LR | NAS | GWR | FC | FC | FC |
| 19 | FC | YEK | YEK | YEK | CO | CO | CO | CC | CC | TI | TI | NAS | NAS | NAS | NAS | CC | NAS | NAS | NAS | NAS | NAS | NAS | FC | DI |
| 20 | FC | YEK | YEK | CO | CO | CO | CC | CC | TI | DI | CO | CC | CC | NAS | LR | LR | LR | LR | NAS | FC | FC | FC | NAS | FC |
| Q21 | FC | FC | CO | CO | CO | CC | CC | CO | CC | CC | CC | DI | DI | DI | DI | DI | CO | NAS | CC | NAS | NAS | FC | FC | FC |
| Q22 | FC | DI | FC | GWR | CO | CO | CC | CC | CC | CC | DI | TI | DI | DI | AI | LR | NAS | NAS | LR | NAS | FC | FC | FC | FC |
| 23 | FC | DI | FC | FC | FC | CO | CC | CC | CC | CC | CC | CC | CC | CC | DI | LR | NAS | NAS | NAS | NAS | NAS | FC | FC | FC |
| 24 | FC | FC | FC | FC | YEK | YEK | CO | CO | CO | CC | CC | CC | CC | CC | CC | NAS | NAS | LR | LR | LR | NAS | FC | FC | FC |
| Q25 | FC | YEK | YEK | YEK | FC | YEK | CO | CO | CC | CC | CC | CC | CC | DI | DI | DI | AI | LR | NAS | GWR | GWR | GWR | FC | YEK |
| 26 | YEK | CO | CO | YEK | CO | CO | CO | CC | CC | CC | CC | CC | CC | CC | CC | CO | NAS | NAS | LR | NAS | NAS | NAS | DI | DI |
| D27 | FC | FC | FC | FC | YEK | CO | CO | CO | CO | CO | CC | TI | DI | DI | DI | DI | NAS | LR | LR | NAS | NAS | NAS | NAS | DI |
| D28 | FC | FC | YEK | YEK | YEK | YEK | YEK | TI | CC | CC | CC | CC | CC | CC | CC | LR | DI | NAS | NAS | NAS | NAS | FC | DI | NAS |
| 29 | FC | YEK | YEK | YEK | YEK | CC | CC | CC | CC | CC | CC | GWR | FC | CC | CC | LR | LR | LR | NAS | NAS | NAS | GWR | GWR | FC |
| 30 | FC | FC | DI | FC | YEK | CO | CC | CC | CC | CC | CC | CC | CC | DI | DI | DI | AI | NAS | NAS | NAS | NAS | NAS | FC | FC |
| 31 | FC | FC | YEK | FC | FC | GWR | YEK | GWR | GWR | GWR | GWR | GWR | CC | CC | DI | DI | LR | LR | NAS | NAS | NAS | NAS | FC | FC |

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MAY 1975 AL = MINIMUM DELTA H

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | UE | UE | TI | TI | GWR | GWR | GWR | GWR | GWR | GWR | AI | AI | FC | CO | YEK | YEK | TI | TI | TI | TI | DI | DI | AI | LR |
| 2 | LR | LR | NAS | LR | LR | GWR | NAS | YEK | GWR | GWR | GWR | FC | FC | CO | YEK | YEK | DI | TI | TI | TI | AI | AI | AI | CC |
| 3 | LR | LR | LR | LR | LR | AI | NAS | NAS | GWR | AI | CO | CO | CO | CO | CO | YEK | TI | TI | TI | CC | DI | CC | LR | LR |
| 4 | LR | LR | GWR | GWR | NAS | GWR | GWR | GWR | GWR | GWR | FC | FC | FC | YEK | GWR | YEK | CC | TI | DI | DI | DI | DI | DI | AI |
| 5 | AI | AI | AI | LR | LR | LR | NAS | FC | GWR | GWR | GWR | FC | FC | CO | YEK | YEK | YEK | DI | DI | TI | TI | AI | AI | AI |
| 6 | LR | LR | LR | LR | LR | NAS | NAS | GWR | GWR | CO | CO | CO | CO | FC | YEK | YEK | DI | TI | TI | TI | TI | AI | AI | CC |
| Q 7 | LR | LR | LR | LR | YEK | GWR | GWR | GWR | GWR | GWR | CO | CO | FC | YEK | CO | YEK | TI | TI | TI | TI | CC | AI | AI | AI |
| Q 8 | LR | LR | GWR | GWR | GWR | GWR | GWR | GWR | GWR | GWR | CO | CO | YEK | YEK | YEK | DI | DI | DI | DI | DI | AI | AI | AI | LR |
| 9 | AI | LR | LR | NAS | NAS | NAS | NAS | GWR | GWR | GWR | YEK | FC | YEK | CO | CO | TI | TI | TI | TI | DI | DI | CC | AI | AI |
| D10 | LR | LR | GWR | LR | LR | LR | NAS | NAS | GWR | GWR | FC | CO | CO | YEK | YEK | YEK | CC | TI | TI | TI | DI | AI | AI | UE |
| D11 | TI | TI | NAS | NAS | GWR | GWR | DI | DI | AI | FC | FC | AI | LR | LR | GWR | CC | CC | YEK | DI | DI | CC | CO | CO | UE |
| D12 | UE | TI | TI | TI | GWR | GWR | FC | FC | AI | AI | AI | AI | LR | NAS | FC | GWR | YEK | YEK | YEK | CO | CC | CO | UE | UE |
| 13 | UE | TI | TI | NAS | NAS | CC | NAS | DI | AI | AI | FC | YEK | AI | LR | LR | GWR | YEK | YEK | CO | DI | DI | AI | CC | CC |
| 14 | AI | AI | AI | NAS | LR | NAS | NAS | NAS | GWR | GWR | GWR | GWR | FC | FC | CO | YEK | TI | DI | TI | AI | DI | DI | DI | UE |
| 15 | TI | NAS | NAS | NAS | NAS | GWR | GWR | FC | FC | FC | YEK | AI | NAS | YEK | YEK | CC | CC | CC | CC | CC | CC | UE | CO | TI |
| 16 | UE | TI | TI | LR | LR | NAS | NAS | YEK | GWR | GWR | AI | FC | UE | YEK | YEK | YEK | TI | TI | DI | DI | CO | AI | AI | AI |
| 17 | AI | LR | LR | LR | NAS | GWR | GWR | GWR | YEK | FC | FC | FC | CO | CO | CC | YEK | DI | DI | DI | DI | CO | TI | TI | TI |
| 18 | LR | LR | LR | GWR | GWR | GWR | GWR | GWR | GWR | FC | CO | YEK | YEK | CO | YEK | YEK | CC | DI | DI | DI | DI | DI | CC | LR |
| 19 | LR | LR | LR | NAS | NAS | NAS | NAS | NAS | NAS | GWR | CO | DI | DI | DI | YEK | AI | YEK | YEK | DI | UE | TI | AI | DI | TI |
| 20 | LR | AI | AI | LR | LR | NAS | YEK | GWR | GWR | CO | GWR | FC | FC | CO | YEK | YEK | DI | CC | CC | DI | DI | TI | AI | AI |
| Q21 | LR | LR | LR | NAS | GWR | FC | GWR | GWR | GWR | FC | FC | CO | CO | FC | FC | GWR | TI | DI | DI | DI | DI | DI | AI | AI |
| Q22 | LR | NAS | NAS | TI | GWR | FC | GWR | GWR | GWR | GWR | FC | FC | FC | FC | CO | TI | TI | DI | DI | DI | DI | UE | LR | LR |
| 23 | LR | TI | TI | TI | TI | GWR | GWR | GWR | FC | GWR | FC | FC | FC | NAS | GWR | CC | TI | DI | DI | DI | CC | TI | TI | TI |
| 24 | LR | NAS | NAS | NAS | NAS | GWR | GWR | GWR | GWR | AI | CO | YEK | YEK | LR | FC | YEK | YEK | YEK | CC | CC | DI | CC | CC | CC |
| Q25 | LR | LR | LR | NAS | NAS | GWR | GWR | GWR | GWR | YEK | FC | FC | FC | FC | YEK | YEK | YEK | TI | TI | TI | TI | TI | AI | AI |
| 26 | AI | AI | LR | LR | GWR | GWR | NAS | NAS | GWR | GWR | CO | CO | YEK | AI | YEK | YEK | YEK | YEK | YEK | YEK | CO | UE | UE | TI |
| D27 | TI | TI | TI | TI | LR | GWR | GWR | GWR | GWR | AI | CO | CO | FC | FC | YEK | YEK | YEK | TI | TI | DI | DI | CC | CC | TI |
| D28 | LR | TI | LR | NAS | NAS | NAS | DI | DI | AI | AI | LR | LR | LR | LR | LR | YEK | YEK | YEK | DI | CC | CO | CO | UE | UE |
| 29 | TI | LR | NAS | LR | NAS | NAS | GWR | GWR | GWR | GWR | FC | DI | LR | NAS | YEK | YEK | YEK | DI | TI | TI | DI | AI | CC | LR |
| 30 | LR | TI | NAS | TI | NAS | GWR | GWR | FC | GWR | FC | FC | YEK | YEK | YEK | YEK | YEK | YEK | YEK | DI | DI | DI | DI | DI | CC | CC |
| 31 | LR | NAS | NAS | TI | CC | DI | DI | DI | DI | LR | LR | LR | NAS | YEK | YEK | YEK | YEK | CC | DI | DI | DI | CC | CC | TI |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D 1 | YEK | YEK | BW | YEK | YEK | BW | BW | BW | BW | BW | CC | DI | DI | DI | DI | LR | AI | AI | LR | NAS | NAS | GWR | GWR | YEK |
| D 2 | YEK | YEK | BW | BW | CO | CO | BW | CC | TI | TI | CC | CC | DI | DI | DI | LR | LR | LR | LR | LR | FC | GWR | FC | FC |
| 3 | YEK | YEK | YEK | BW | BW | BW | BW | CC | CC | CC | CC | CC | DI | AI | DI | DI | LR | NAS | NAS | NAS | NAS | FC | FC | FC |
| 4 | FC | YEK | BW | BW | BW | BW | BW | CC | CC | CC | CC | CC | TI | DI | LR | LR | LR | NAS | LR | NAS | FC | FC | FC | FC |
| 5 | BW | BW | BW | BW | BW | BW | BW | BW | CO | CC | CC | CC | DI | DI | DI | DI | LR | NAS | NAS | LR | NAS | NAS | NAS | NAS |
| 6 | BW | BW | BW | BW | BW | BW | BW | BW | CC | CC | CC | CC | CC | DI | AI | LR | LR | LR | NAS | NAS | BW | NAS | NAS | NAS |
| 7 | FC | FC | FC | YEK | BW | BW | BW | BW | CC | CC | CC | CC | CC | CC | DI | DI | DI | DI | LR | LR | NAS | NAS | NAS | DI |
| Q 8 | DI | YEK | YEK | YEK | YEK | BW | BW | BW | BW | CC | CC | CC | CC | DI | DI | DI | CO | BW | BW | LR | NAS | NAS | NAS | FC |
| 9 | FC | YEK | YEK | BW | YEK | YEK | BW | BW | BW | CC | CC | CC | CC | CC | CO | CO | LR | LR | LR | LR | LR | NAS | FC | FC |
| Q10 | FC | FC | FC | YEK | YEK | YEK | YEK | BW | BW | CC | CC | CC | DI | DI | DI | AI | AI | LR | LR | NAS | NAS | NAS | FC | FC |
| 11 | FC | FC | FC | YEK | BW | BW | CO | CO | CC | TI | TI | DI | DI | DI | CC | CO | CO | NAS | LR | LR | LR | NAS | NAS | FC |
| D12 | FC | FC | FC | CO | CO | LR | CO | CC | CC | DI | TI | DI | DI | DI | AI | CO | LR | LR | NAS | NAS | NAS | GWR | FC | FC |
| 13 | YEK | YEK | YEK | YEK | BW | BW | BW | BW | CC | CC | CC | DI | DI | AI | AI | DI | NAS | NAS | NAS | NAS | NAS | NAS | FC | FC | FC |
| 14 | FC | FC | FC | YEK | BW | BW | BW | CC | CC | CC | CC | CC | DI | DI | DI | AI | AI | NAS | NAS | NAS | NAS | NAS | FC | DI | FC |
| 15 | FC | FC | YEK | YEK | BW | BW | BW | BW | CC | DI | CC | CC | CC | CC | DI | AI | AI | LR | LR | NAS | NAS | GWR | GWR | FC |
| 16 | YEK | YEK | YEK | BW | BW | BW | BW | BW | CC | DI | DI | DI | TI | DI | DI | AI | LR | LR | LR | LR | NAS | FC | FC | FC |
| 17 | FC | FC | YEK | BW | YEK | YEK | BW | BW | CC | DI | TI | CC | DI | DI | DI | AI | AI | NAS | LR | NAS | NAS | GWR | FC | FC |
| 18 | YEK | YEK | YEK | BW | BW | BW | BW | BW | FC | CC | CC | CC | CC | DI | AI | AI | LR | NAS | LR | NAS | NAS | NAS | DI | FC |
| 19 | FC | FC | YEK | YEK | BW | BW | BW | CC | CC | CC | CC | DI | DI | AI | DI | AI | AI | NAS | LR | LR | NAS | FC | FC | FC |
| 20 | FC | FC | FC | FC | FC | YEK | BW | BW | BW | BW | CC | CC | CC | CC | CO | NAS | NAS | NAS | NAS | NAS | NAS | NAS | FC | FC |
| 21 | FC | FC | BW | BW | YEK | YEK | YEK | CC | CC | CC | CC | CC | NAS | NAS | NAS | NAS | NAS | LR | LR | NAS | NAS | NAS | FC | FC |
| 22 | FC | YEK | NAS | NAS | NAS | NAS | NAS | NAS | CC | NAS | TI | DI | CC | CC | CC | CO | CO | NAS | LR | NAS | NAS | NAS | NAS | FC |
| Q23 | FC | YEK | YEK | YEK | BW | BW | YEK | YEK | YEK | BW | CC | CC | CC | CC | DI | AI | AI | LR | LR | AI | NAS | NAS | NAS | NAS |
| Q24 | NAS | DI | DI | BW | BW | BW | BW | BW | BW | CC | BW | CC | CC | TI | TI | TI | LR | LR | NAS | LR | NAS | NAS | DI | DI |
| 25 | FC | FC | FC | FC | YEK | YEK | YEK | BW | BW | BW | CC | CC | CC | CC | DI | DI | AI | AI | NAS | NAS | NAS | FC | FC | FC |
| 26 | FC | YEK | YEK | YEK | BW | YEK | BW | BW | BW | CC | TI | CC | DI | CC | CC | DI | DI | LR | LR | NAS | NAS | NAS | NAS | NAS |
| Q27 | FC | FC | YEK | YEK | YEK | YEK | BW | BW | TI | TI | TI | TI | CC | TI | TI | DI | TI | NAS | LR | NAS | NAS | NAS | NAS | FC |
| 28 | FC | YEK | YEK | YEK | YEK | YEK | BW | BW | BW | BW | CC | CC | DI | CC | DI | DI | CO | BW | NAS | NAS | NAS | NAS | FC | FC |
| D29 | FC | YEK | YEK | YEK | YEK | BW | BW | YEK | BW | BW | BW | YEK | YEK | TI | TI | AI | AI | AI | NAS | GWR | GWR | GWR | FC | YEK |
| D30 | YEK | BW | BW | BW | CO | BW | BW | CC | CC | CC | DI | CC | CC | CC | CC | AI | LR | NAS | NAS | NAS | NAS | FC | FC | FC |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D 1 | LR | NAS | NAS | NAS | TI | GWR | FC | FC | FC | FC | FC | FC | CO | CO | BW | YEK | BW | BW | BW | TI | TI | DI | CC | DI |
| D 2 | LR | LR | LR | LR | LR | NAS | NAS | NAS | GWR | FC | FC | FC | CO | CO | BW | YEK | YEK | TI | TI | TI | AI | AI | AI | CC |
| 3 | AI | LR | LR | NAS | GWR | GWR | GWR | GWR | GWR | GWR | GWR | YEK | CO | BW | BW | BW | BW | DI | DI | DI | AI | DI | CC | LR |
| 4 | LR | LR | LR | NAS | NAS | GWR | NAS | GWR | GWR | CO | CO | FC | FC | YEK | BW | BW | BW | BW | TI | DI | DI | AI | AI | LR |
| 5 | LR | LR | LR | NAS | NAS | NAS | NAS | NAS | NAS | NAS | NAS | BW | BW | BW | BW | BW | BW | BW | BW | TI | DI | AI | DI | CC |
| 6 | LR | LR | LR | LR | LR | NAS | NAS | NAS | NAS | CO | AI | AI | CO | CO | CO | BW | BW | BW | DI | DI | TI | CC | CC | CC |
| 7 | LR | LR | TI | NAS | GWR | GWR | GWR | GWR | GWR | FC | FC | FC | YEK | YEK | BW | BW | BW | YEK | CC | DI | DI | DI | CC | TI |
| Q 8 | TI | TI | TI | NAS | GWR | GWR | GWR | FC | GWR | FC | FC | FC | YEK | YEK | BW | BW | GWR | DI | YEK | CO | BW | CC | CC | CC |
| 9 | TI | TI | LR | NAS | NAS | CC | DI | YEK | AI | YEK | YEK | YEK | YEK | YEK | BW | GWR | BW | BW | CC | TI | CO | CC | TI | TI |
| Q10 | TI | NAS | NAS | NAS | NAS | TI | FC | DI | YEK | FC | FC | FC | FC | FC | YEK | YEK | TI | BW | DI | DI | DI | DI | CC | AI |
| 11 | LR | LR | NAS | NAS | NAS | NAS | NAS | NAS | NAS | GWR | GWR | GWR | FC | FC | YEK | BW | AI | YEK | BW | TI | TI | CC | AI | LR |
| D12 | AI | AI | LR | LR | LR | NAS | GWR | GWR | GWR | GWR | GWR | CO | CO | FC | BW | TI | TI | DI | BW | TI | TI | DI | DI | CC |
| 13 | LR | LR | LR | NAS | GWR | GWR | GWR | GWR | GWR | GWR | GWR | CO | CO | CO | YEK | BW | BW | TI | DI | DI | DI | CC | CC | LR |
| 14 | LR | NAS | NAS | GWR | GWR | GWR | GWR | GWR | GWR | GWR | BW | FC | CO | BW | YEK | YEK | BW | BW | BW | CC | CC | TI | TI | TI |
| 15 | TI | LR | NAS | NAS | GWR | GWR | GWR | GWR | NAS | GWR | FC | FC | YEK | YEK | YEK | CO | BW | BW | BW | CC | DI | DI | CC | CC |
| 16 | AI | AI | LR | LR | GWR | NAS | GWR | GWR | GWR | CO | CO | FC | FC | FC | YEK | YEK | BW | DI | BW | DI | DI | AI | AI | AI |
| 17 | CC | LR | LR | GWR | GWR | DI | GWR | GWR | GWR | CO | FC | FC | CO | YEK | YEK | TI | TI | BW | BW | TI | DI | DI | AI | AI |
| 18 | LR | LR | LR | LR | GWR | GWR | GWR | GWR | AI | AI | BW | BW | BW | YEK | CC | CC | BW | BW | DI | DI | DI | CC | UE | CC |
| 19 | LR | LR | NAS | NAS | NAS | GWR | GWR | GWR | YEK | FC | FC | CO | CO | BW | YEK | YEK | BW | BW | BW | DI | CC | CC | DI | LR |
| 20 | LR | LR | NAS | NAS | TI | NAS | GWR | YEK | FC | FC | FC | FC | BW | YEK | YEK | BW | BW | BW | DI | DI | CC | CC | CC | CC |
| 21 | LR | TI | NAS | LR | NAS | GWR | CC | GWR | GWR | FC | FC | FC | FC | BW | YEK | YEK | BW | BW | BW | CC | DI | DI | CC | AI |
| 22 | LR | LR | LR | LR | GWR | GWR | GWR | GWR | GWR | GWR | FC | FC | FC | YEK | YEK | DI | DI | CC | YEK | BW | DI | CC | CC | CC |
| Q23 | LR | TI | CC | CC | NAS | NAS | FC | DI | AI | LR | LR | YEK | YEK | YEK | YEK | BW | BW | CC | BW | DI | CC | CC | CC | UE |
| Q24 | CC | NAS | NAS | NAS | CC | DI | AI | AI | AI | NAS | AI | AI | AI | BW | BW | BW | BW | BW | CC | CO | CO | CO | UE | UE |
| 25 | TI | TI | TI | CC | CC | DI | DI | DI | DI | AI | AI | FC | FC | YEK | YEK | BW | BW | BW | DI | DI | DI | DI | AI | AI |
| 26 | LR | LR | LR | LR | GWR | GWR | GWR | GWR | GWR | GWR | AI | CO | BW | YEK | YEK | BW | BW | GWR | YEK | DI | DI | CO | CO | UE |
| Q27 | UE | TI | CC | CC | NAS | GWR | GWR | DI | AI | AI | AI | LR | LR | LR | GWR | BW | BW | YEK | DI | CC | CC | CC | CC | CC |
| 28 | LR | CC | CC | CC | CC | CC | GWR | GWR | FC | FC | FC | FC | BW | YEK | BW | BW | GWR | GWR | GWR | CC | CO | UE | CC | UE |
| D29 | LR | CC | NAS | NAS | NAS | GWR | GWR | FC | LR | LR | LR | LR | LR | YEK | YEK | YEK | YEK | BW | TI | TI | TI | CC | CC | AI |
| D30 | LR | LR | LR | LR | LR | GWR | NAS | YEK | GWR | GWR | CO | CO | YEK | BW | BW | YEK | DI | BW | BW | DI | CC | DI | AI | CC |

| IDENTIFICATION | GEOGRAPHIC LAT | GEOGRAPHIC LONG | GEOMAGNETIC LAT | GEOMAGNETIC LONG |
|---|---|---|---|---|
| AI = ABISKO | 68 21.5 | 18 49.4 | 66.0 | 114.9 |
| *BW = BARROW | 71 18.2 | -156 44.9 | 68.5 | 241.1 |
| CC = C.CHELYUSKIN | 77 43.0 | 104 17.0 | 66.2 | 176.4 |
| CO = COLLEGE | 64 51.6 | -147 50.2 | 64.6 | 256.5 |
| GWR= GREAT WHALE R. | 55 16.0 | -77 47.0 | 66.5 | 347.4 |
| DI = DIXON ISLAND | 73 32.6 | 80 33.7 | 63.0 | 161.5 |

| IDENTIFICATION | GEOGRAPHIC LAT | GEOGRAPHIC LONG | GEOMAGNETIC LAT | GEOMAGNETIC LONG |
|---|---|---|---|---|
| FC = FT.CHURCHILL | 58 48.0 | -94 06.0 | 68.7 | 322.8 |
| LR = LEIRVOGUR | 64 11.0 | -21 42.0 | 70.2 | 71.0 |
| NAS= NARSSARSSUAQ | 61 06.0 | -45 12.0 | 71.0 | 37.0 |
| TI = TIXIE BAY | 71 35.0 | 129 00.0 | 60.4 | 191.4 |
| UE = CAPE WELLEN | 66 09.8 | -169 50.1 | 61.7 | 237.0 |
| YEK= YELLOWKNIFE | 62 24.0 | 245 36.0 | 69.0 | 292.8 |

## SECTION III. GRAPHS OF INDICES, STATISTICAL DATA AND MAGNETOGRAMS

### 1. Explanation

*Daily Graphs of 1.0-min Auroral Electrojet Indices.* The following graphs are prints of computer-drawn plots of variations of the 1.0-min indices AU, AL, AE and AO for each day of January-June 1975. Dates on the graphs are given as year/month/day: (75/04/12) is 12 April 1975. Number of stations used for index derivations during each month is indicated in the upper right corner as, for example AE(11). Universal Time is indicated along the horizontal axis. Note that hour "1" in the tables in Section II refers to the interval from 0000-0100 UT on the graphs. The graph scale on which AU and AL are plotted is -1500 to 1000 nanoTeslas; that of AE and AO is -500 to 1000 nanoTeslas.

During some very disturbed intervals, the AO trace reached the lower limit of the microfilm plotting frame. Also, during large disturbances it is common for the AL and AE traces to overlap and become difficult to distinguish. It was not practical to change graph scales for such short, disturbed intervals and users interested in those times are encouraged to request listings of 1.0-min index values.

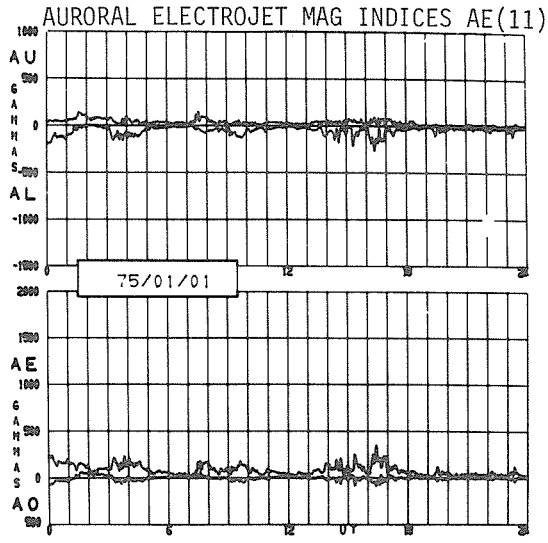
*Stacked Common Scale Magnetograms.* The following six graphs display the condensed stacked plots of the H (or X) 1-min variations for all stations for each month. Amplitude scales are given below each figure, corresponding to the centimeter scale at the lower right. Station abbreviations, component, north polar distance and east longitude are given for each station providing data for at least part of each month.

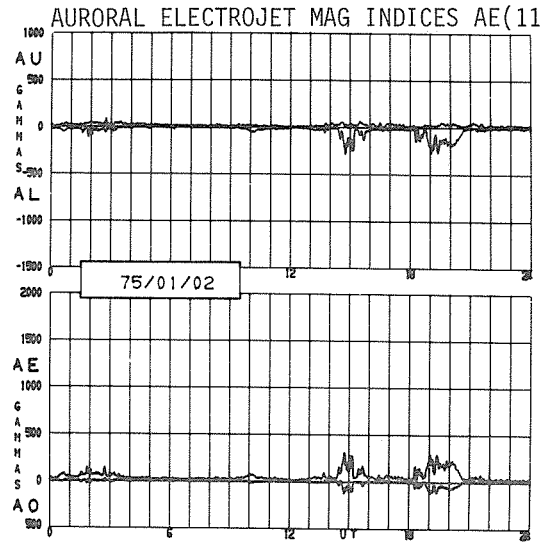
*Frequency of AU and AL Provision by Station and Total Amplitude of Most Positive and Most Negative H Variations.* Figures 3-26 display for each month statistical information concerning the time and frequency with which each station gives 1-min AU and AL indices and the total (cumulative) amplitude of extreme magnetic variations at those times when the stations were giving the indices. The curves were smoothed with an 11-point running mean. Arrows mark the UT time of Local Geomagnetic Midnight at each site. The UT day is shown twice so that patterns of systematic occurrence of extreme variations at the critically located sites will not be interrupted by day-end.

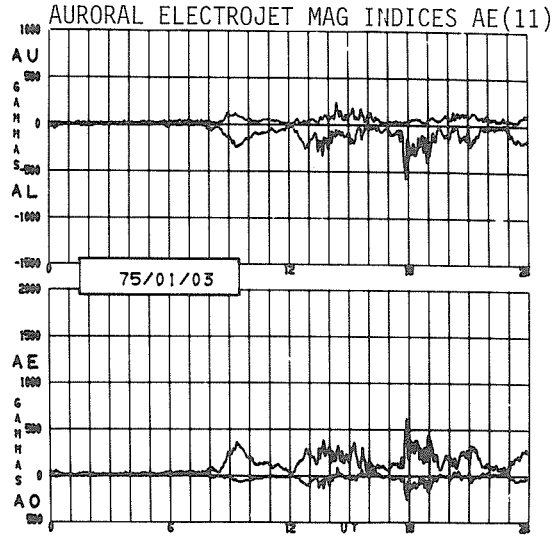
It is evident that the time at which AU is most frequently derived from each site, peaks some 6 h before Local Geomagnetic Midnight but that substorm related AU may occur frequently over a 6- to 9-h interval centered on 1800 LGT. Also, the larger amplitude positive variations occur during those hours when the sites are most often the source of AU.

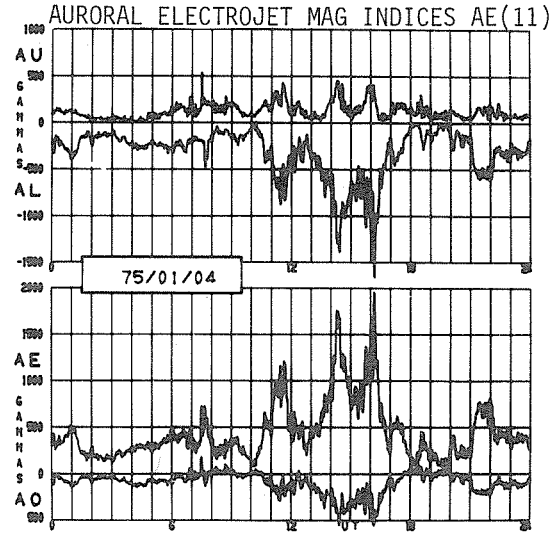
For AL, each site is most often in the critical position beneath the westward electrojet around 3 h after Local Geomagnetic Midnight. The larger negative H variations also occur most frequently around 0300 LGT. A few pre-midnight and midnight large-amplitude events, however, often appear to complicate this simple pattern. The College Observatory site is somewhat exceptional, because it, more than all the other AE stations is optimally located to monitor large AL-producing events during several hours about Local Geomagnetic Midnight.

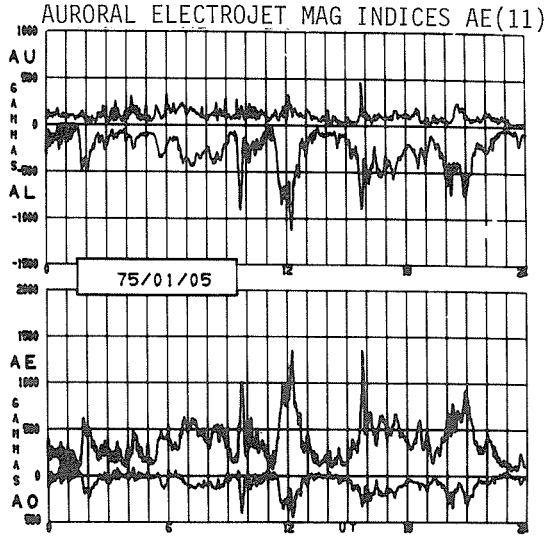
1. Daily Graphs of 1.0-min Auroral Electrojet Indices

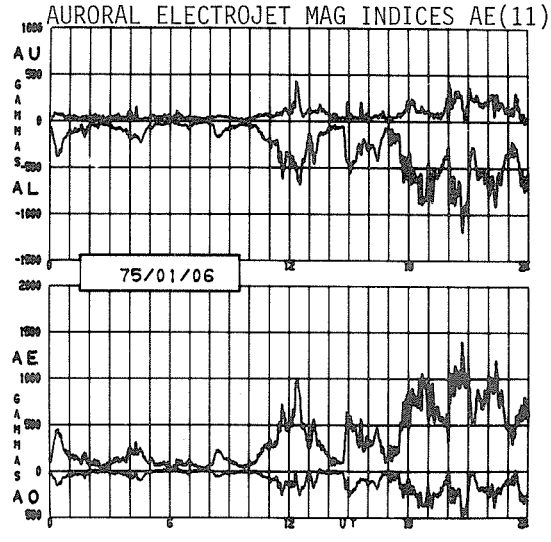


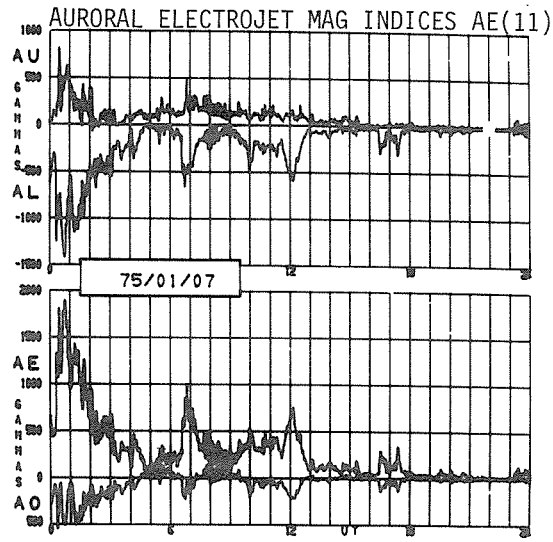

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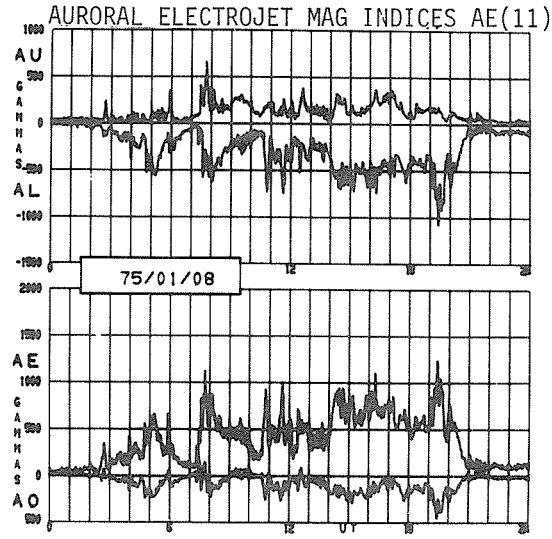
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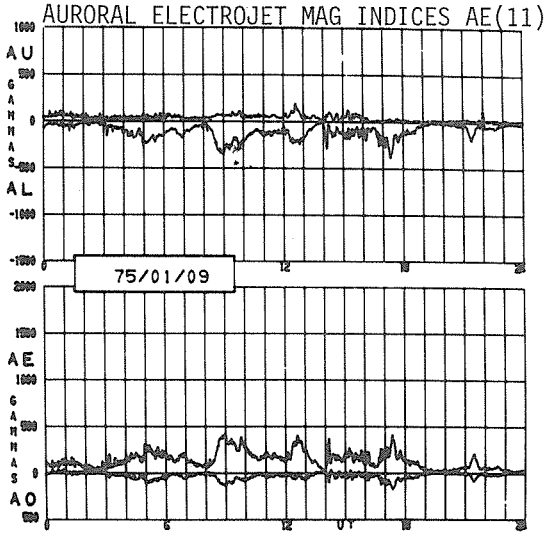
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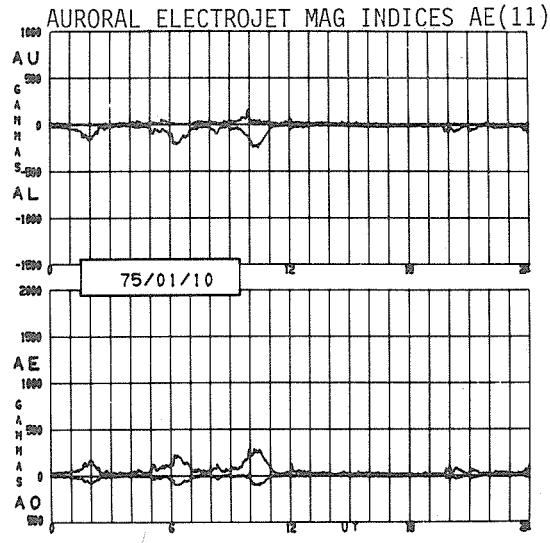
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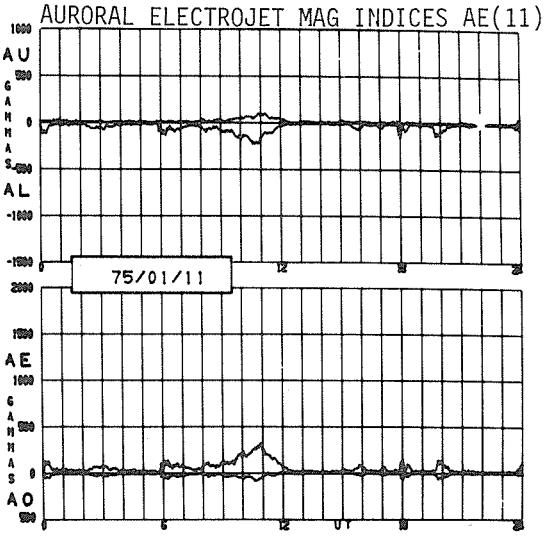
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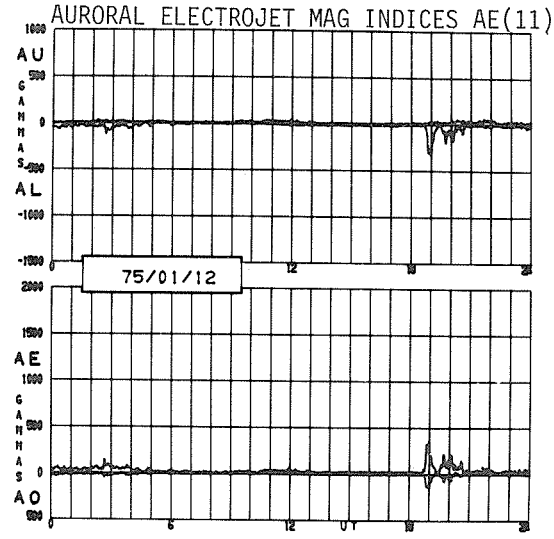
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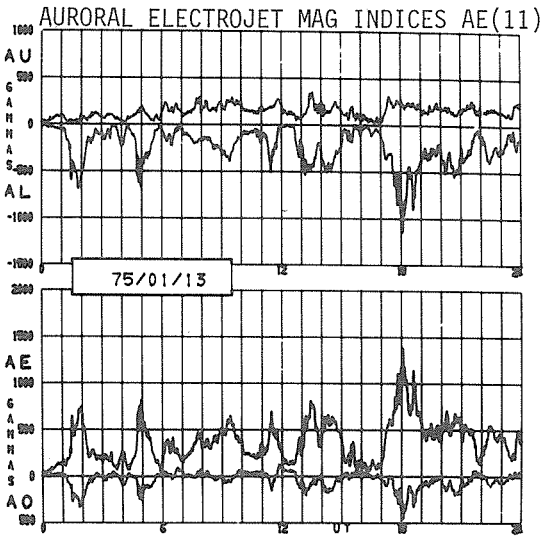
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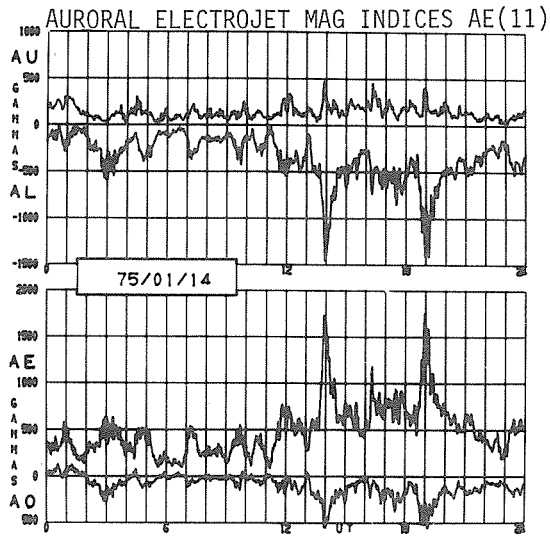
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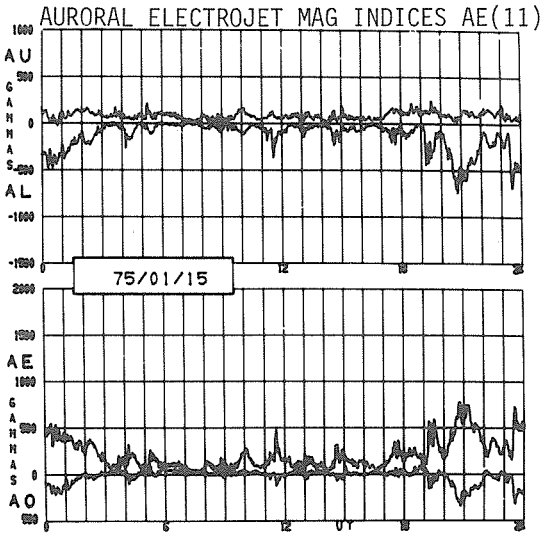
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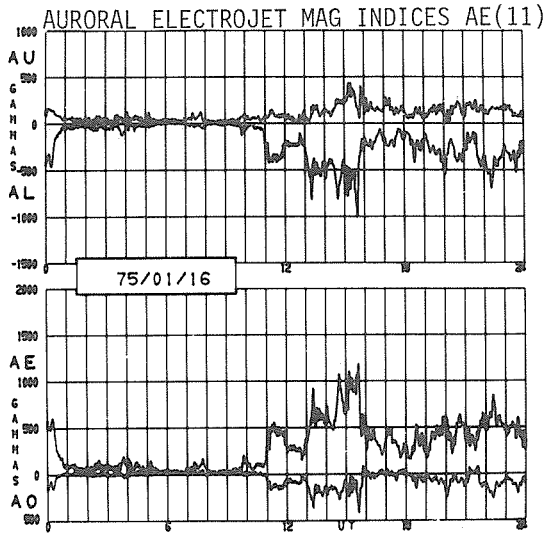
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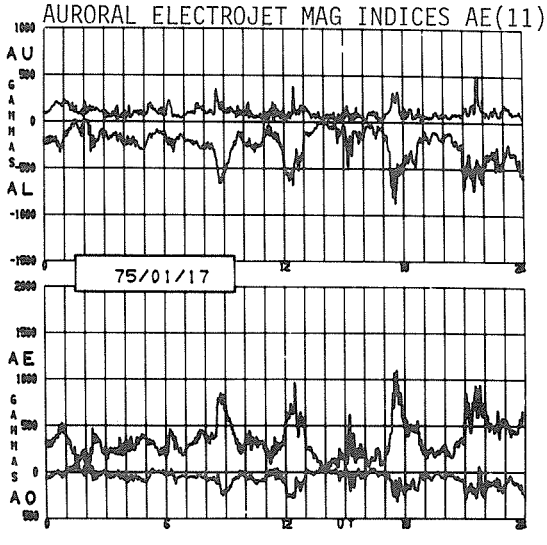
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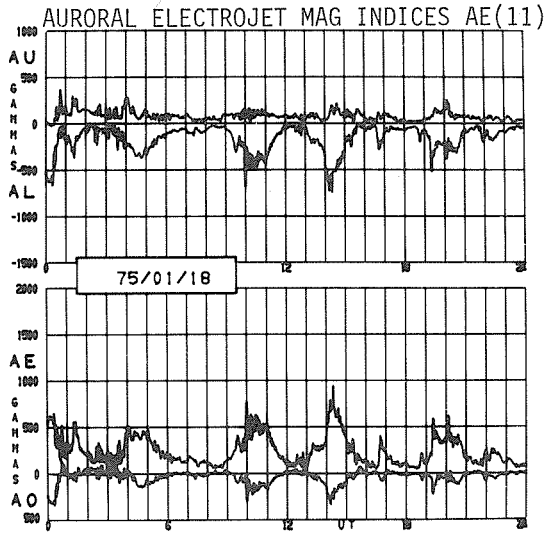
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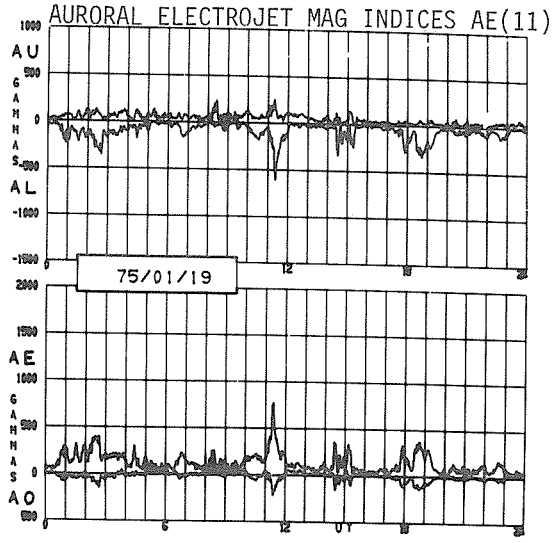
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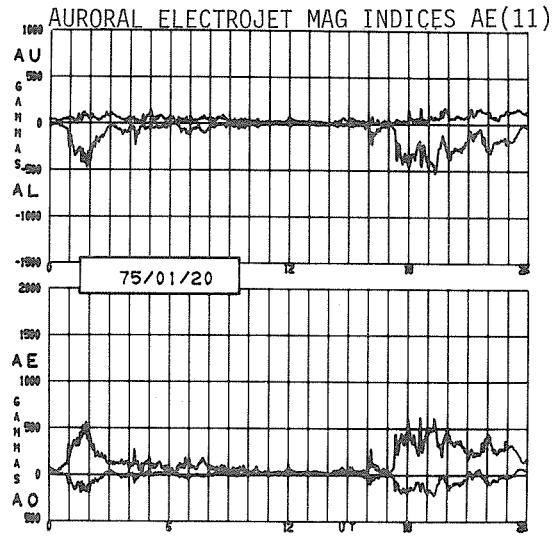
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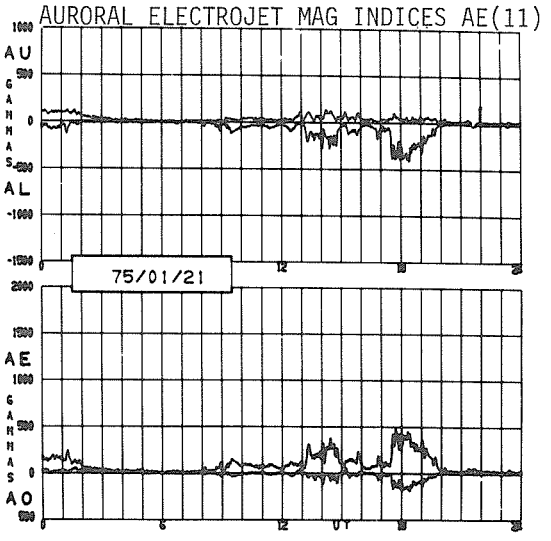
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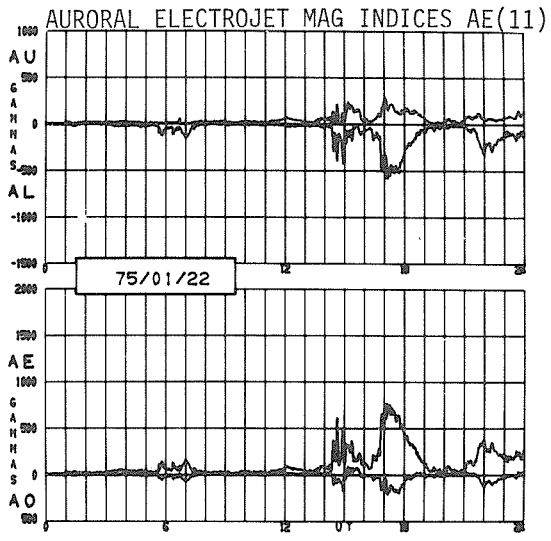
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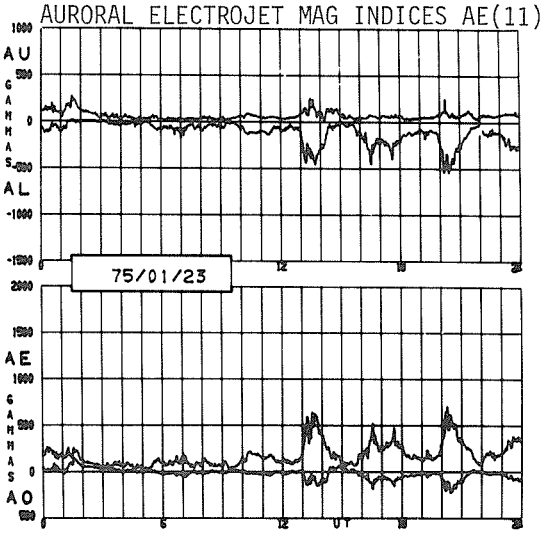
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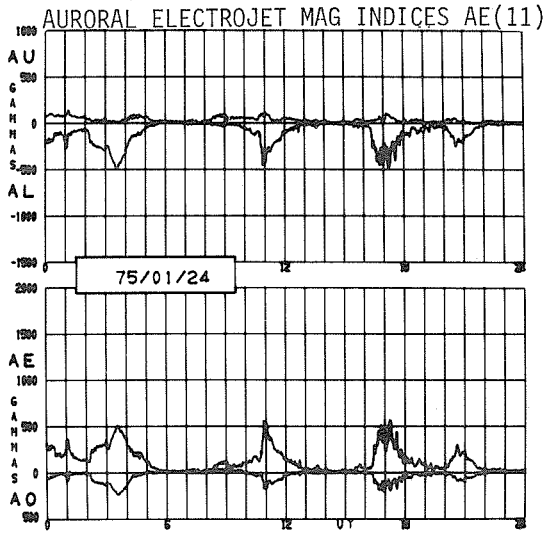
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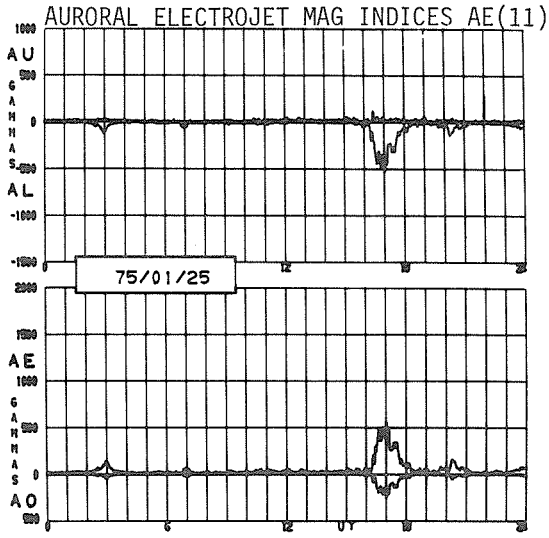
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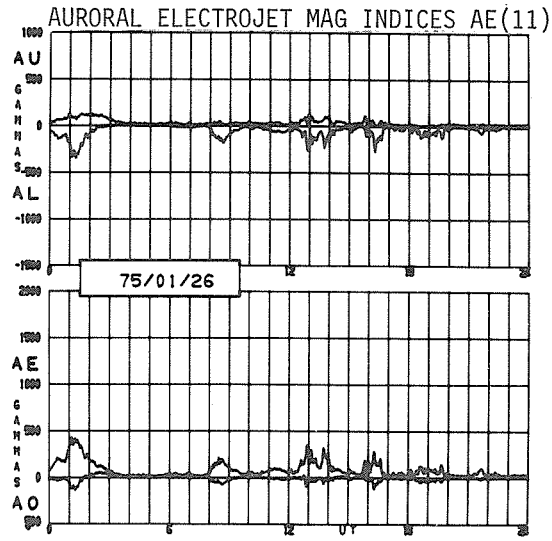
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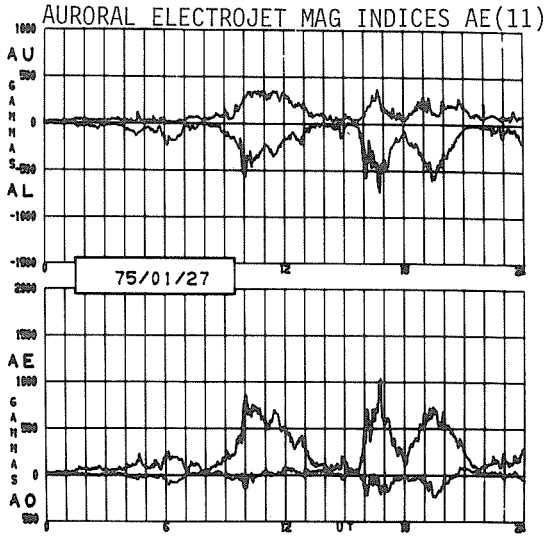
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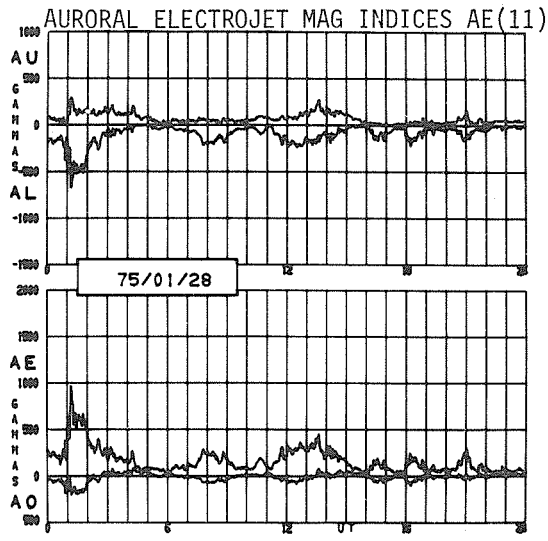
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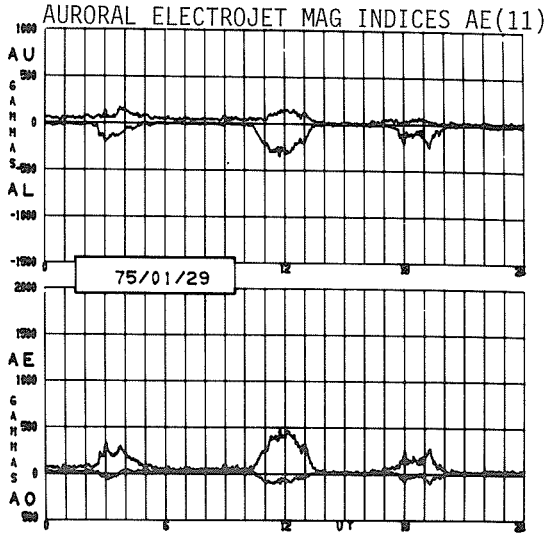
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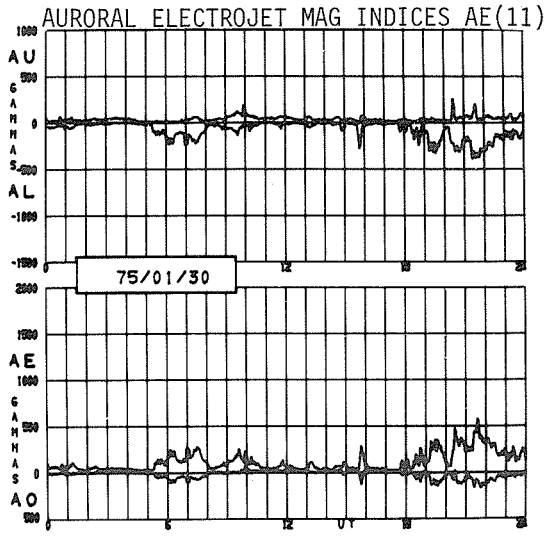
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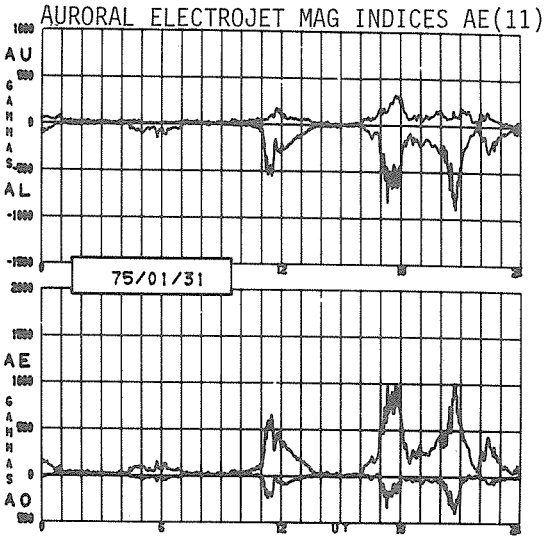
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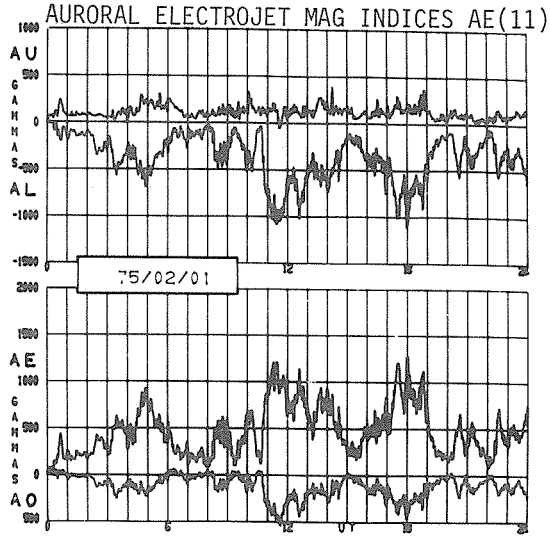
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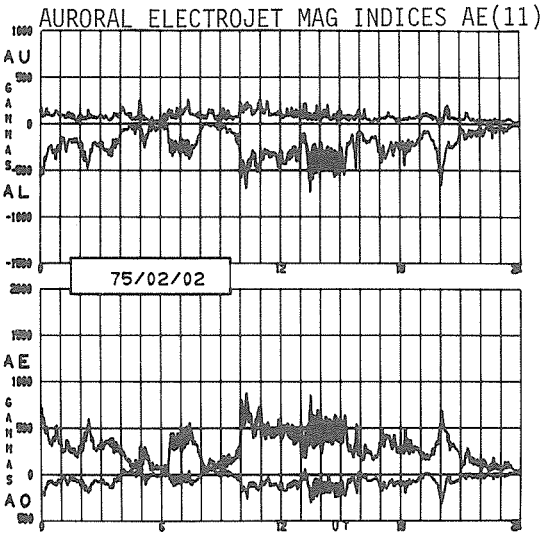
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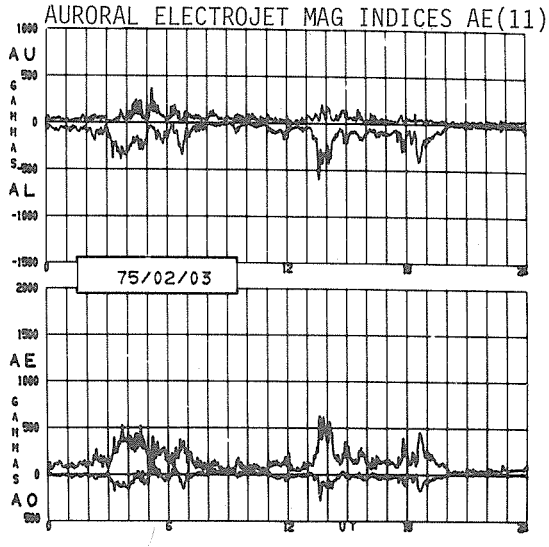
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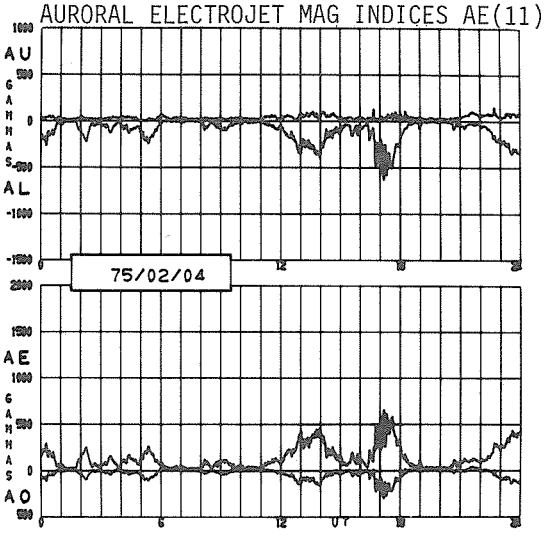
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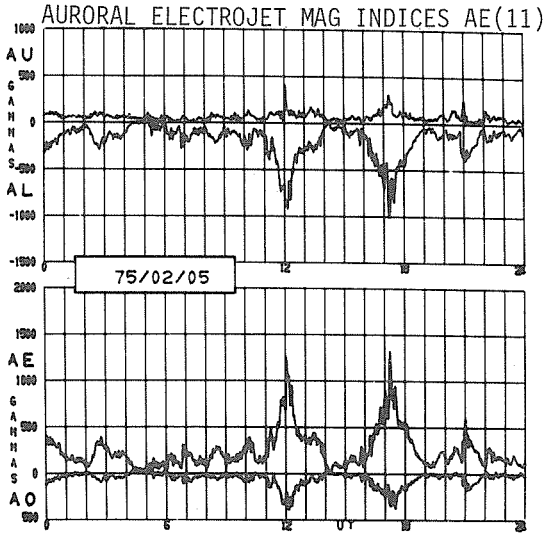
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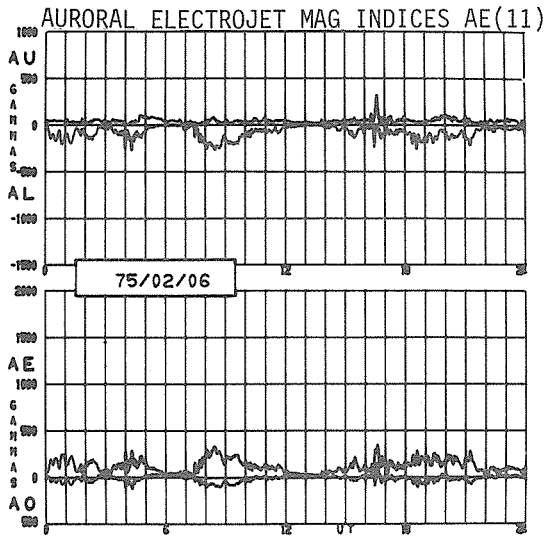
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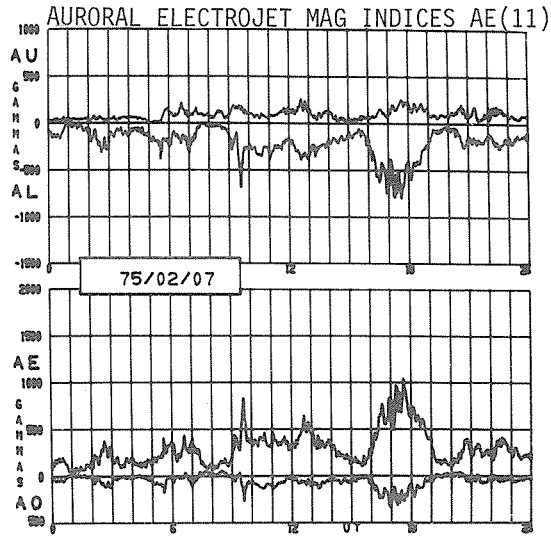
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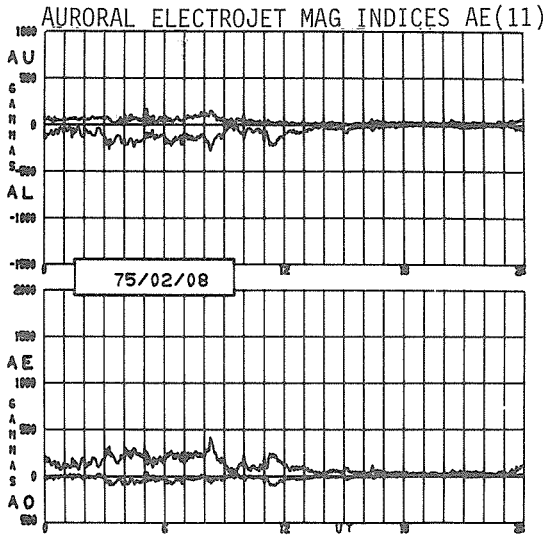
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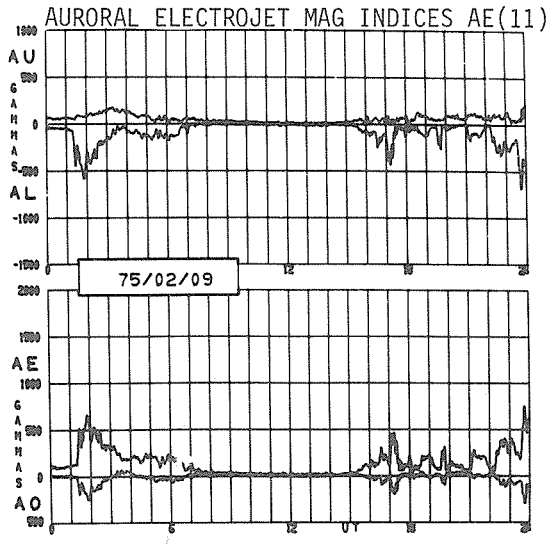
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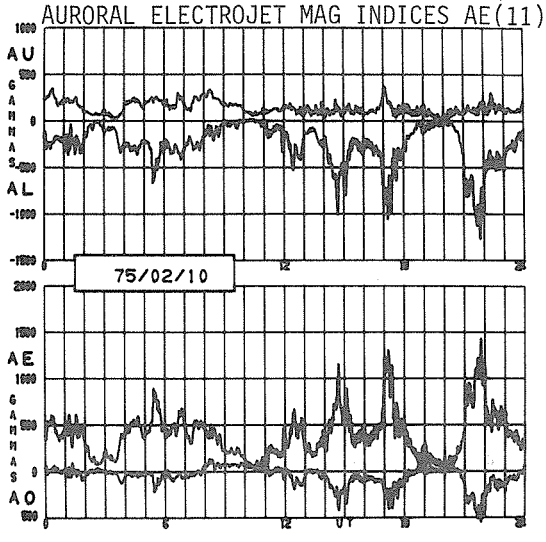
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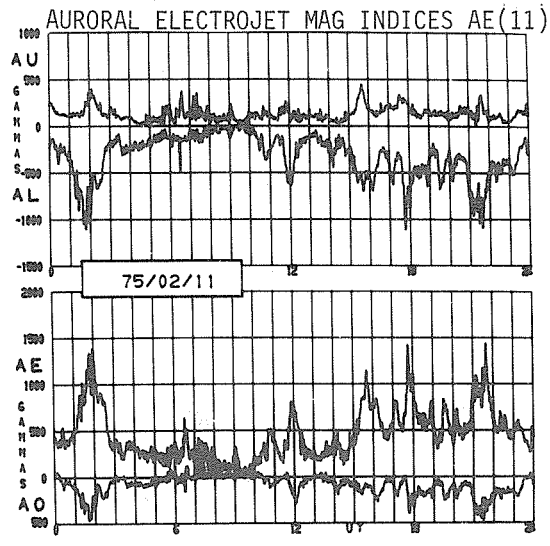
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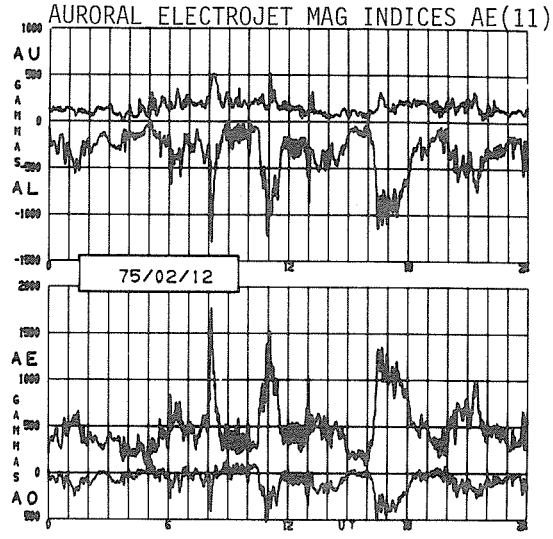
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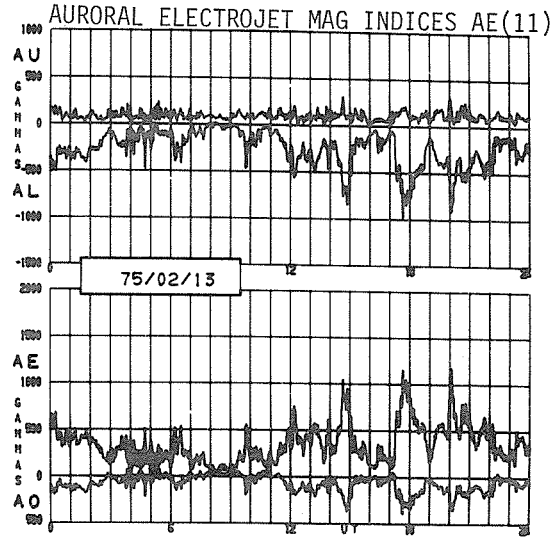
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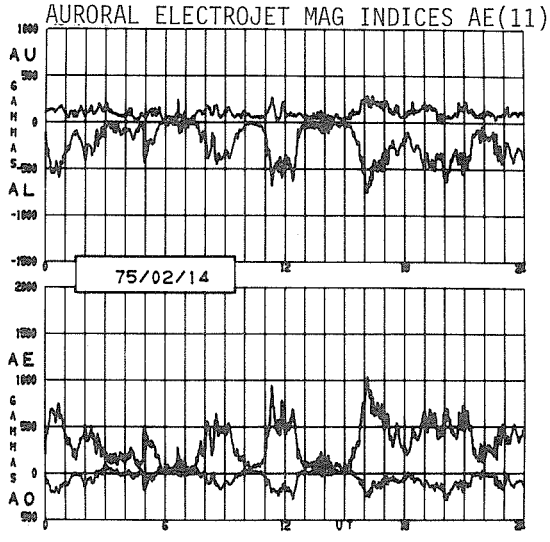
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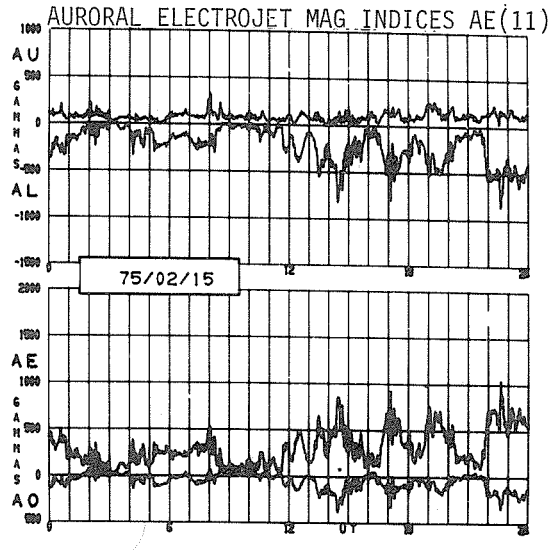
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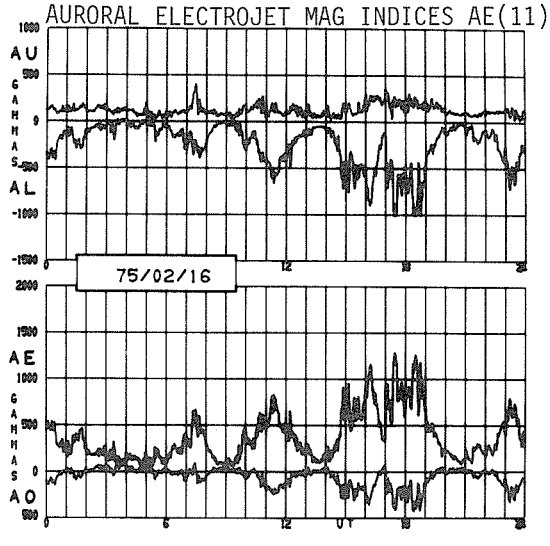
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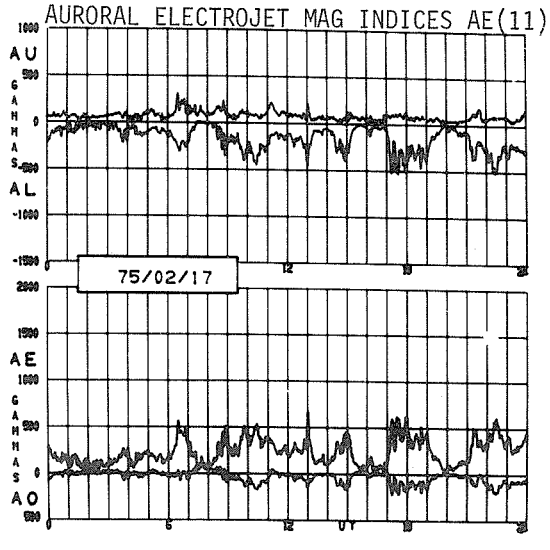
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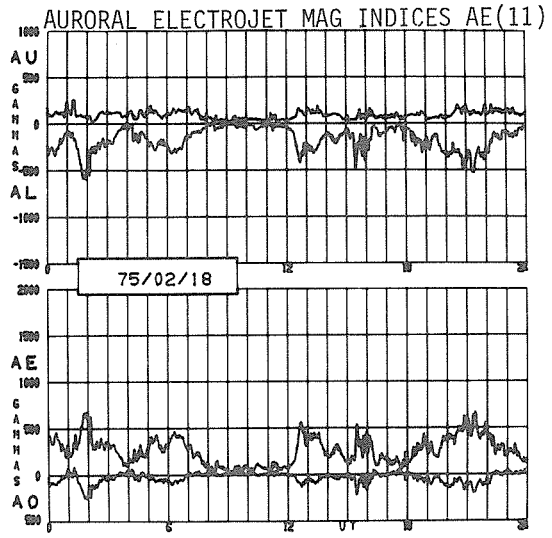
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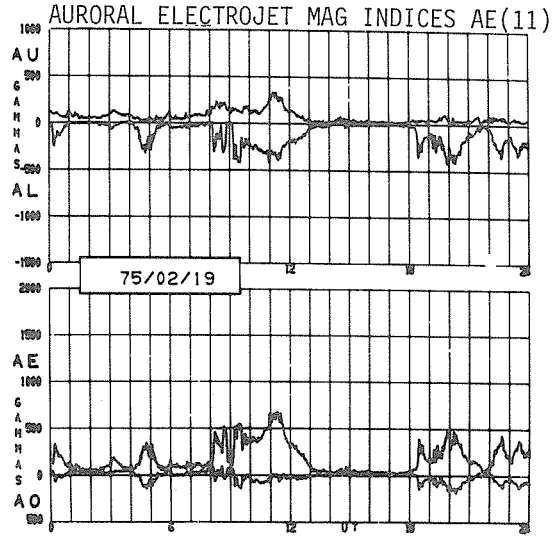
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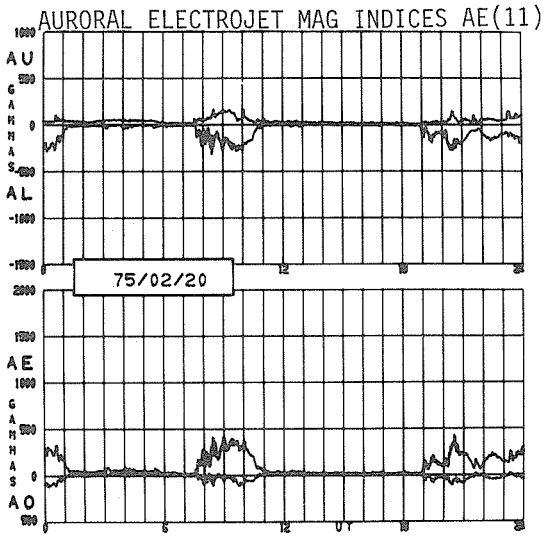
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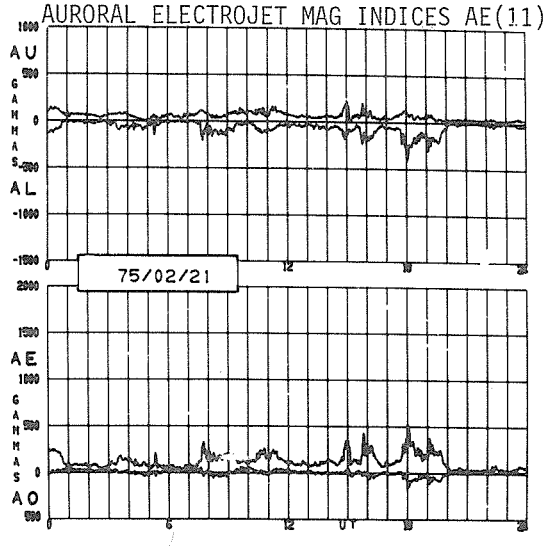
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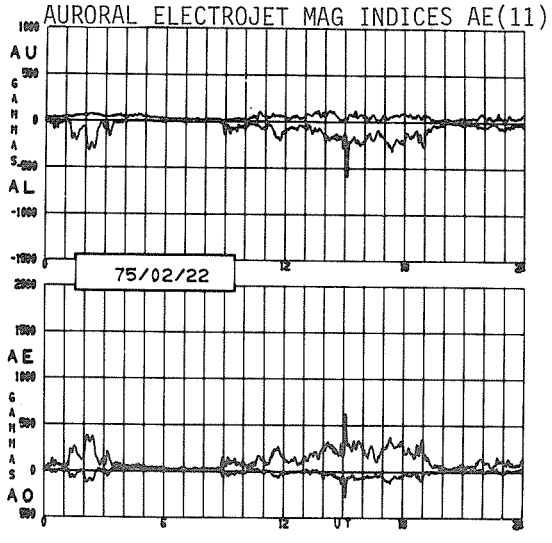
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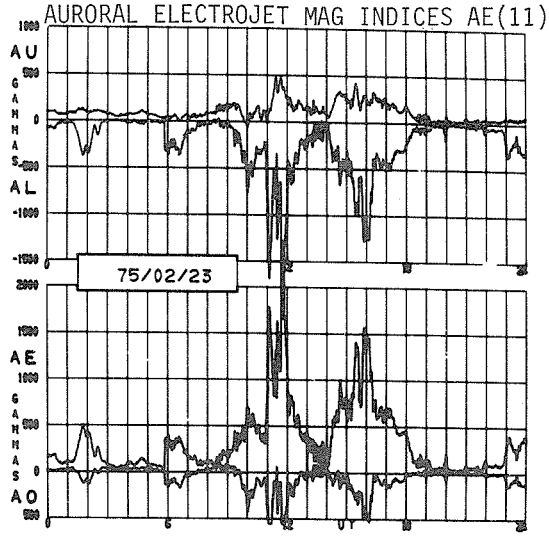
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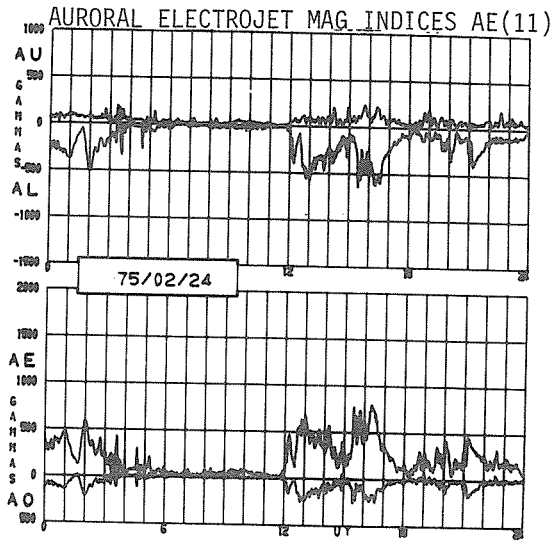
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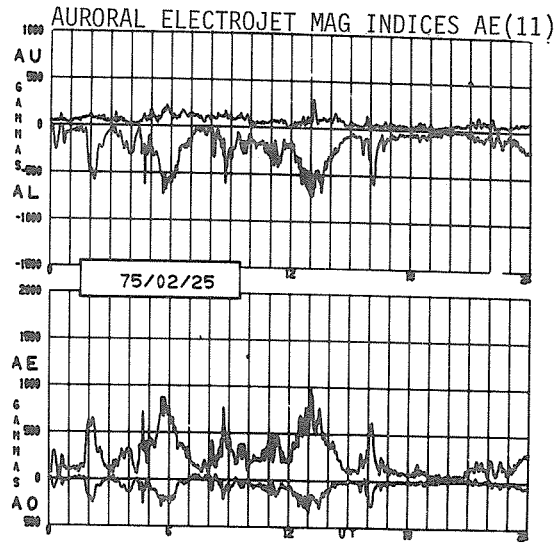
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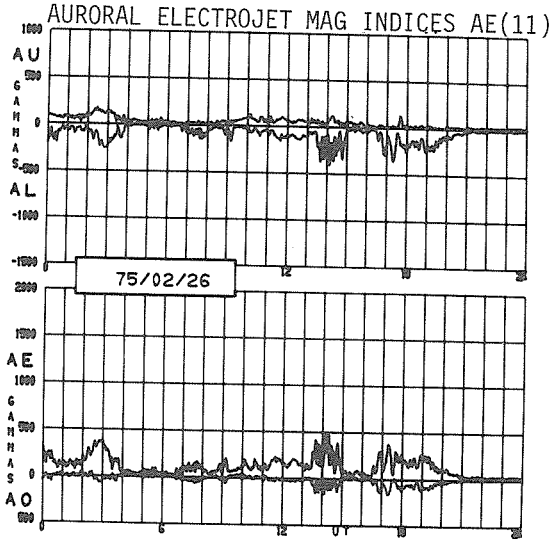
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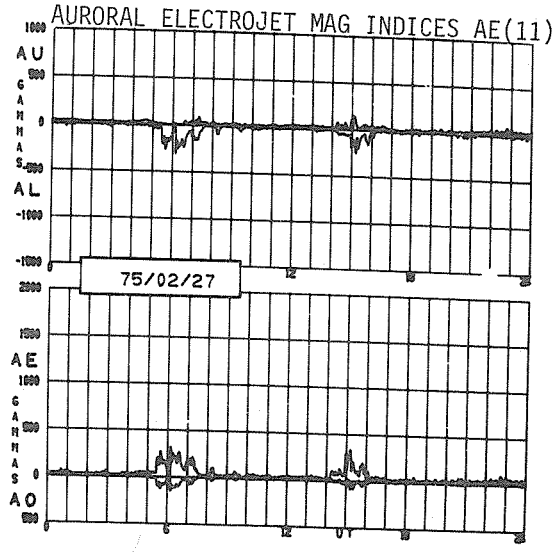
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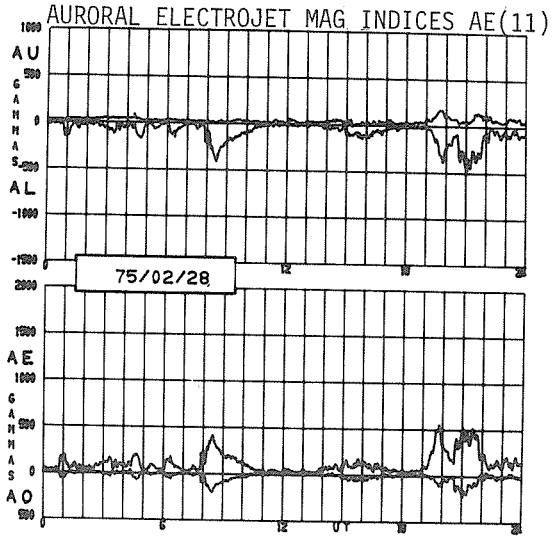
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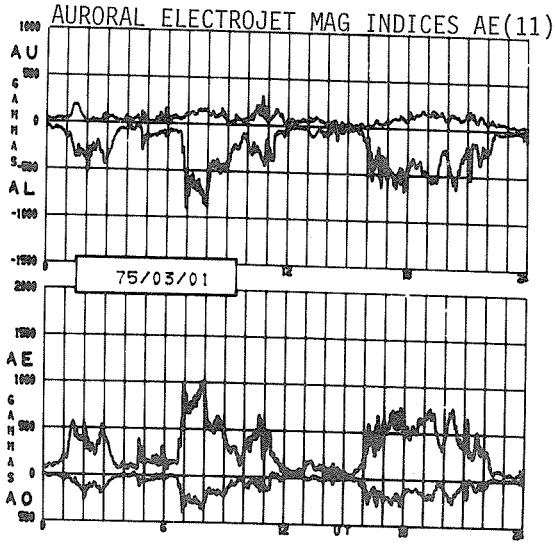
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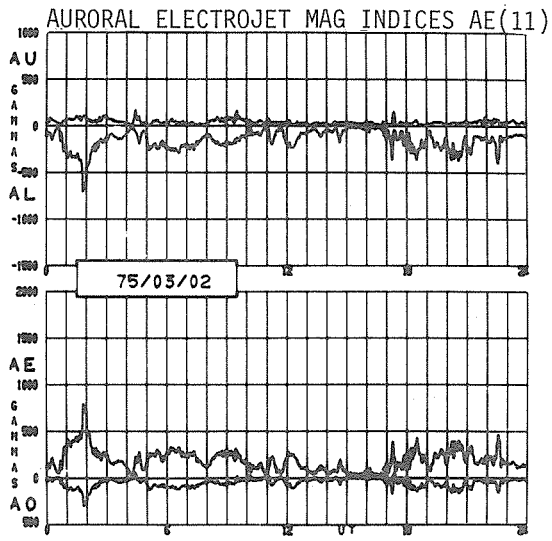
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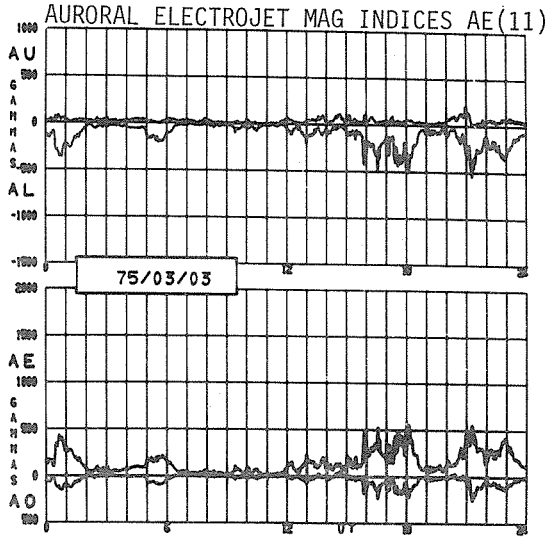
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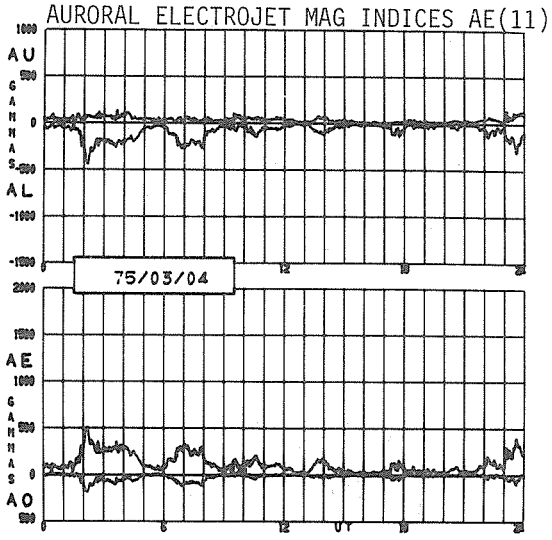
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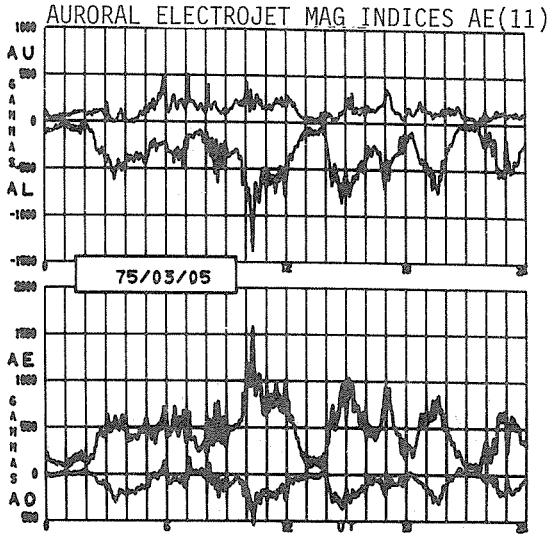
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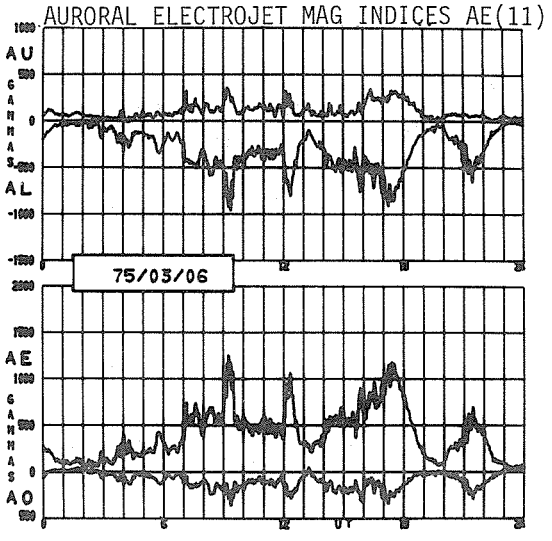
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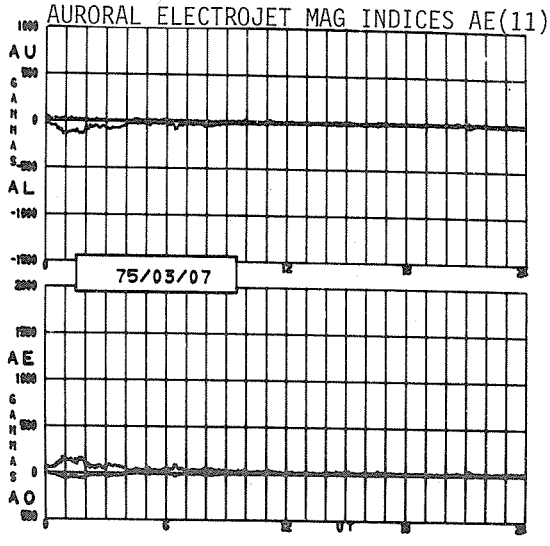
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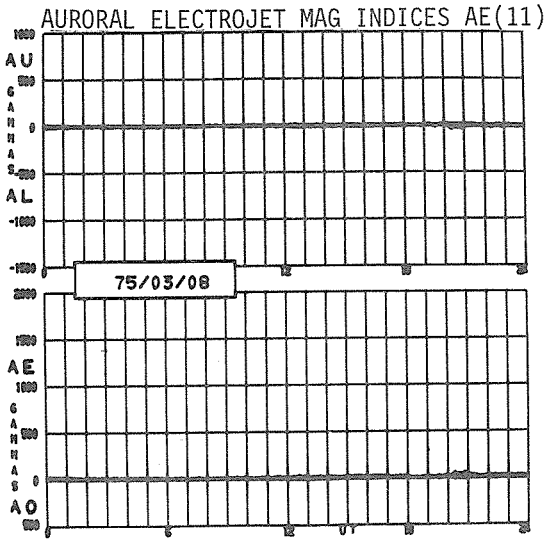
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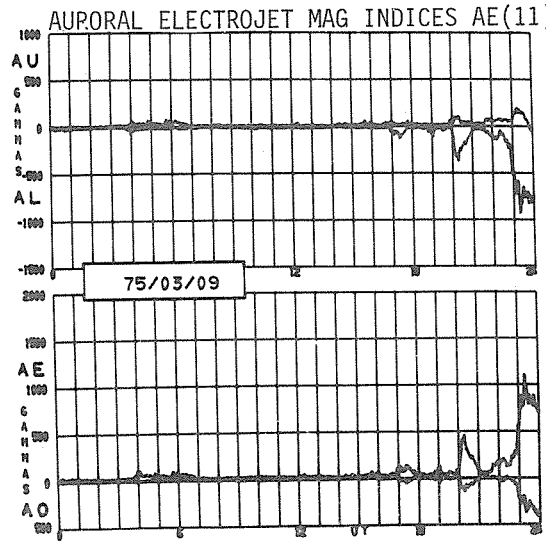
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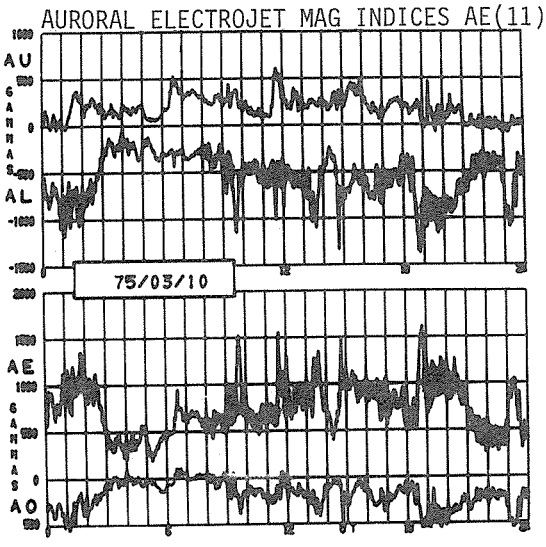
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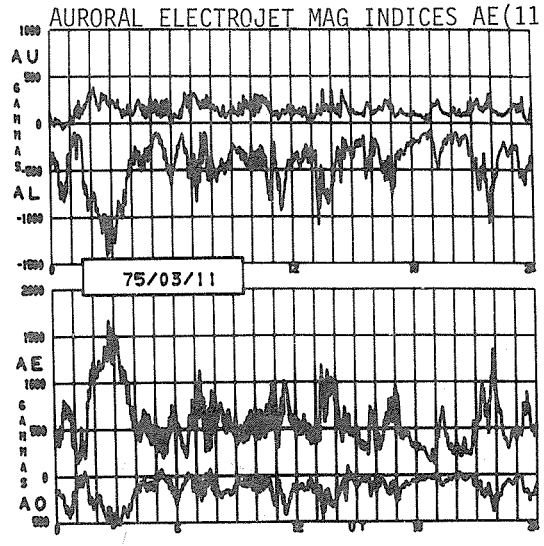
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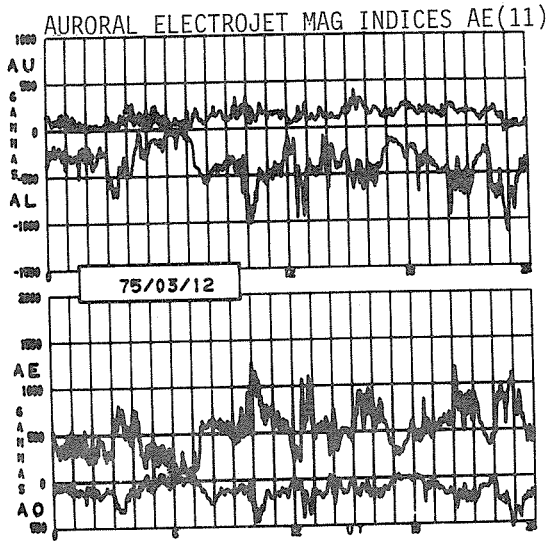
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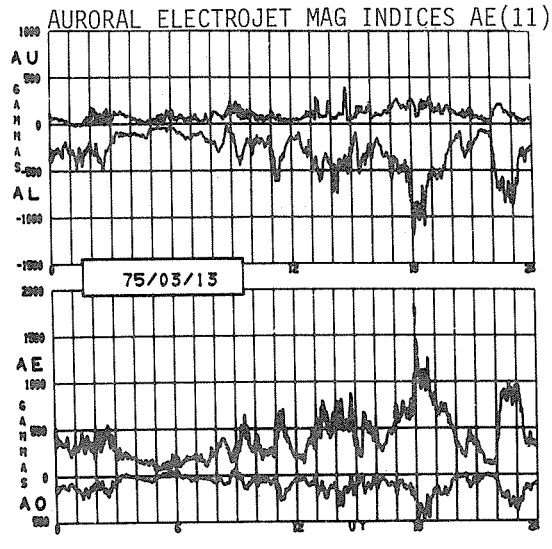
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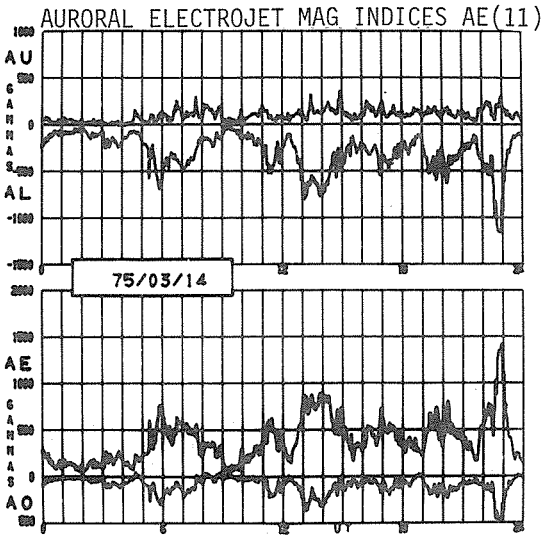
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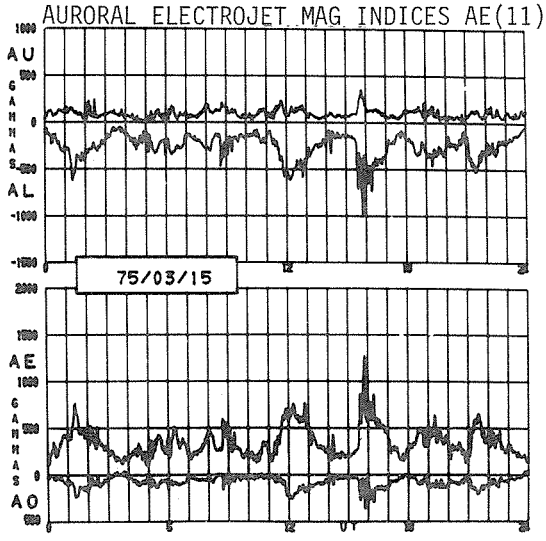
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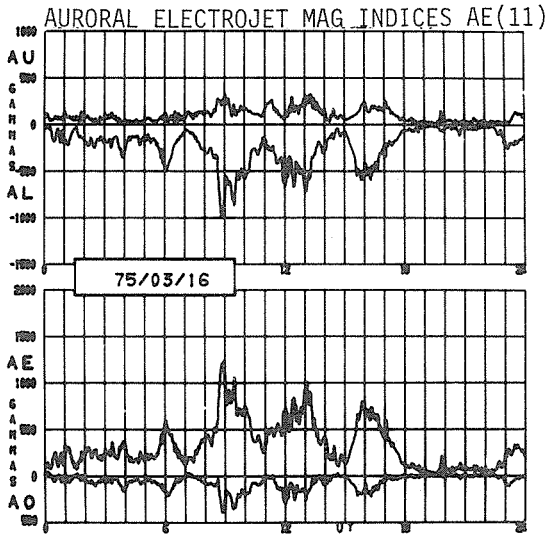
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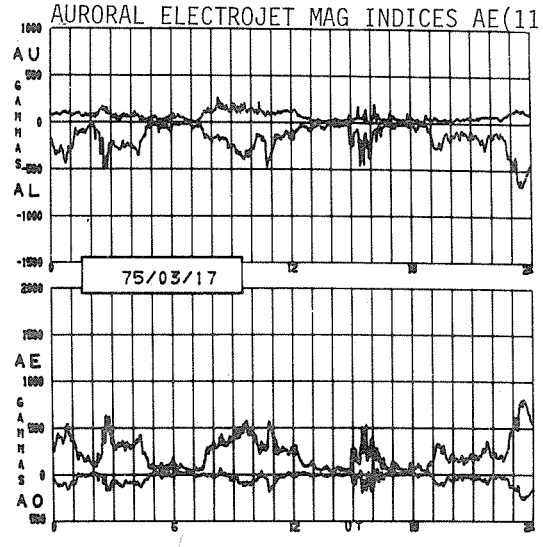
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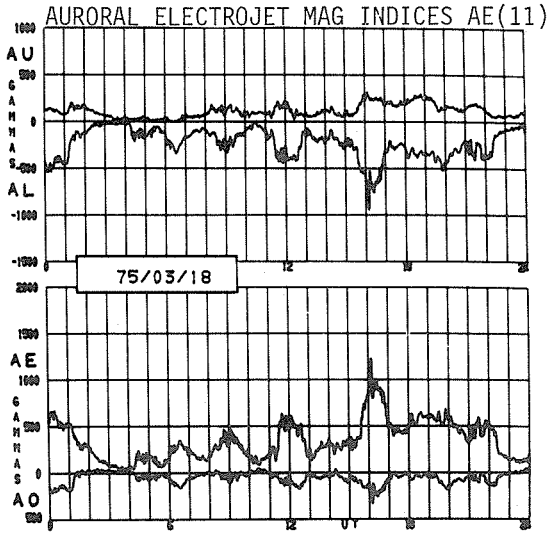
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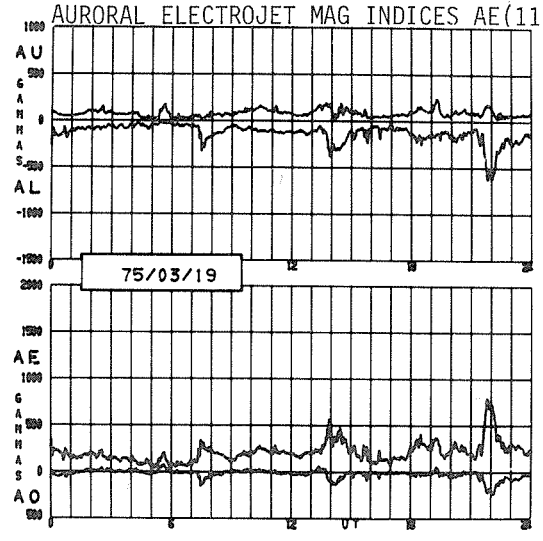
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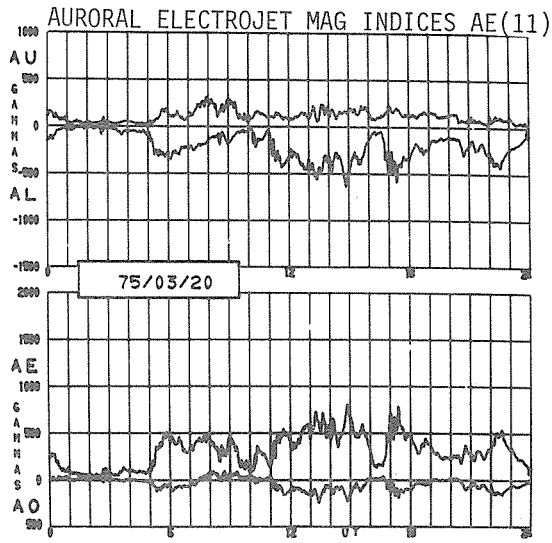
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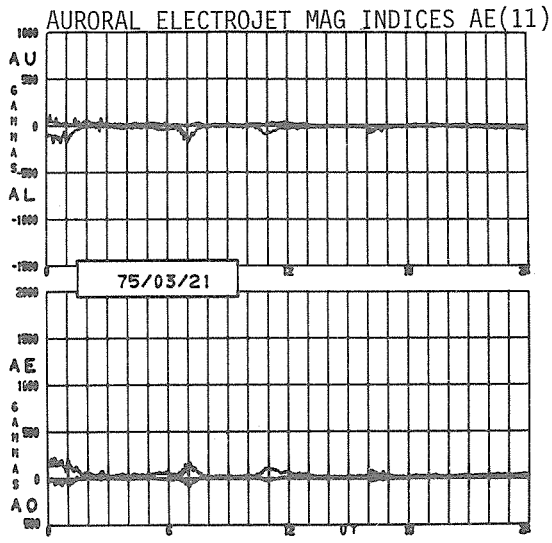
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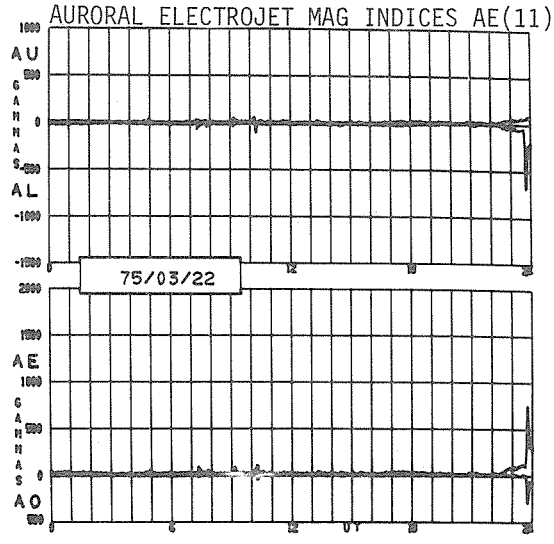
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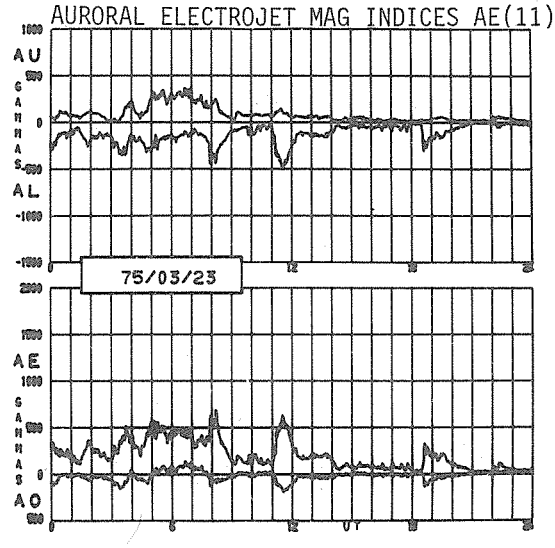
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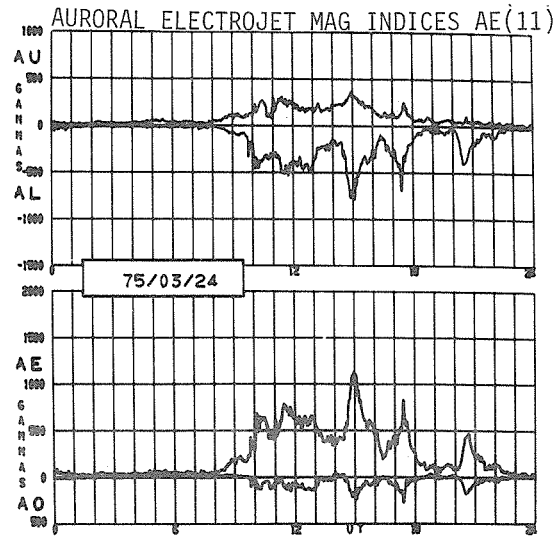
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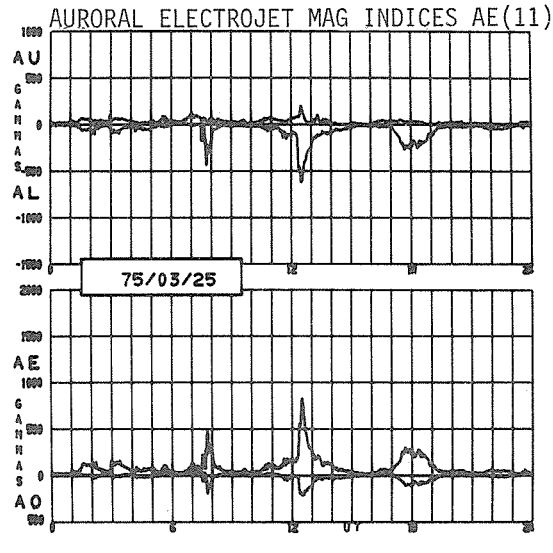
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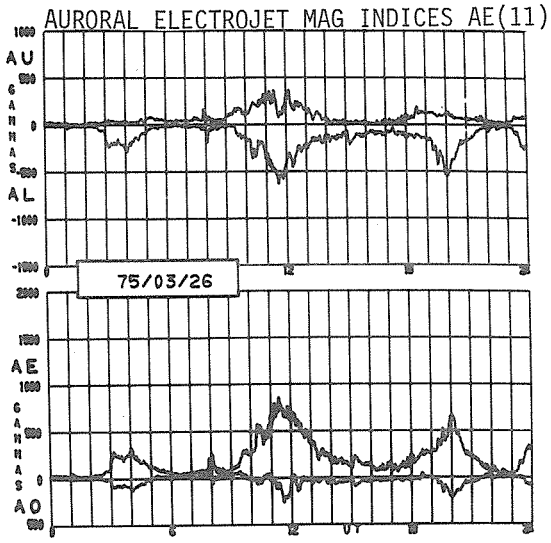
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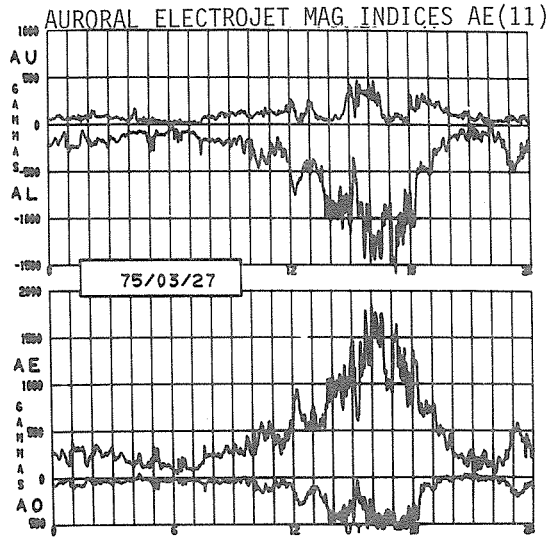
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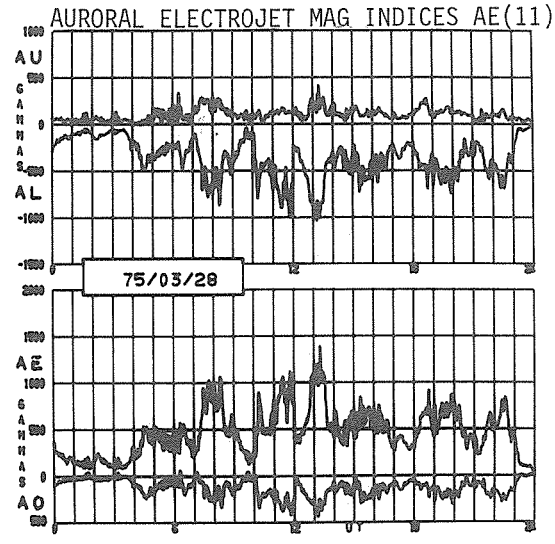
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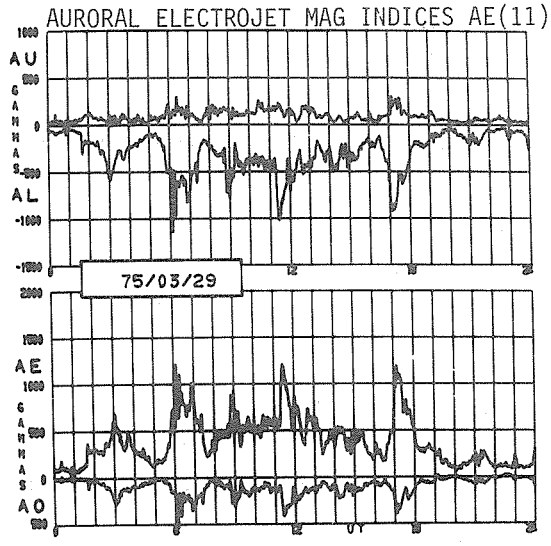
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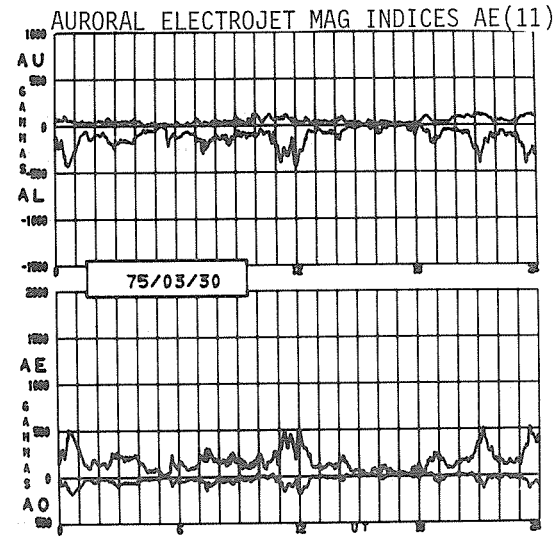
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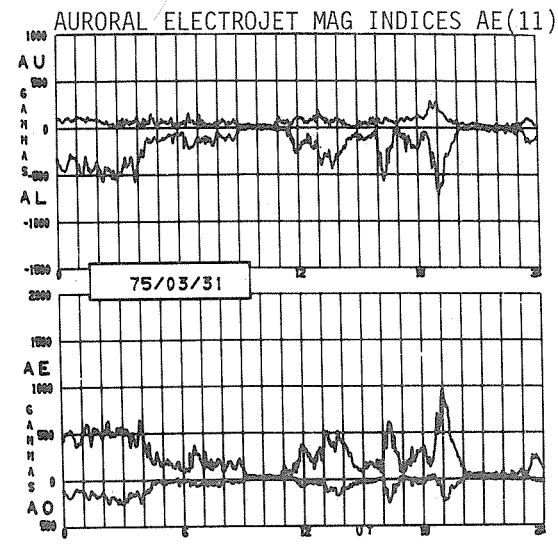
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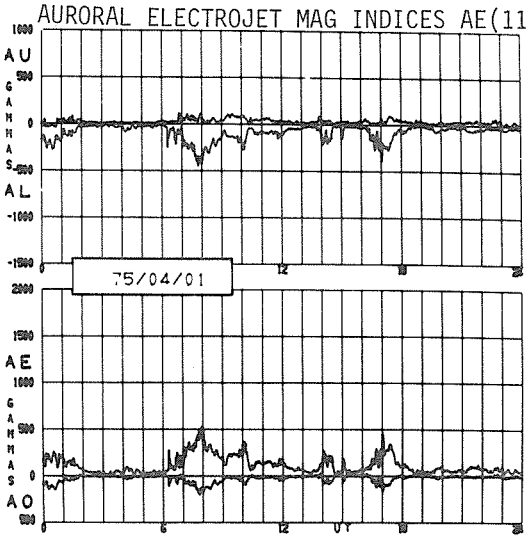
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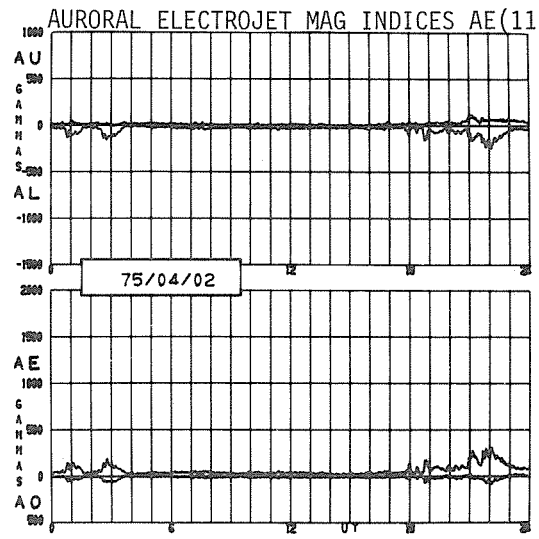
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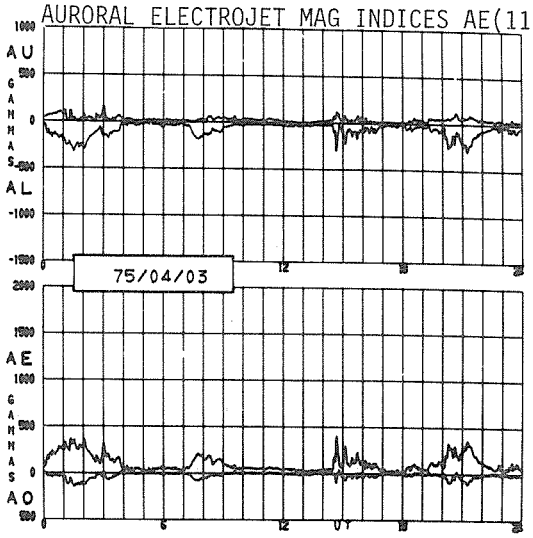
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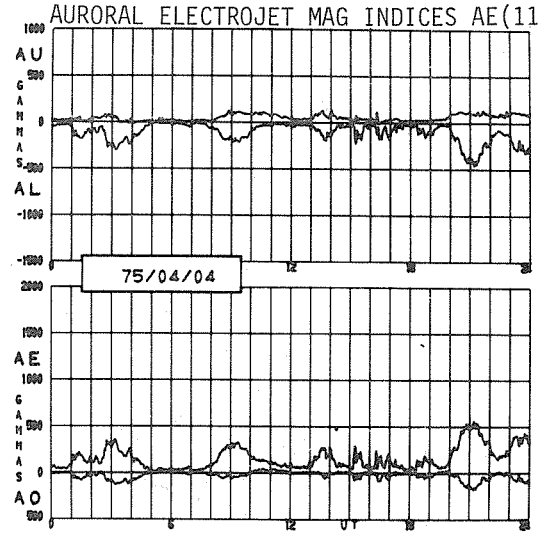
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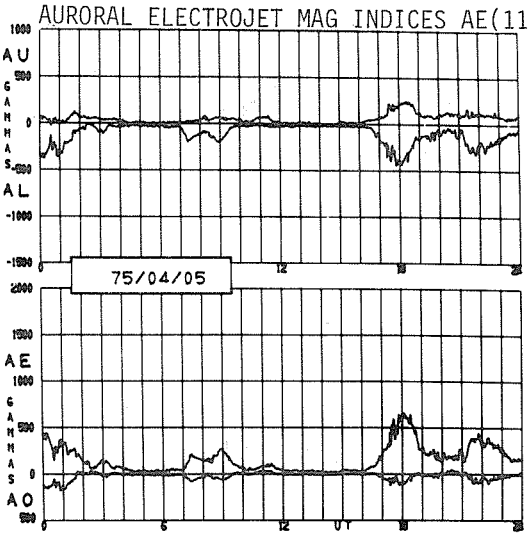
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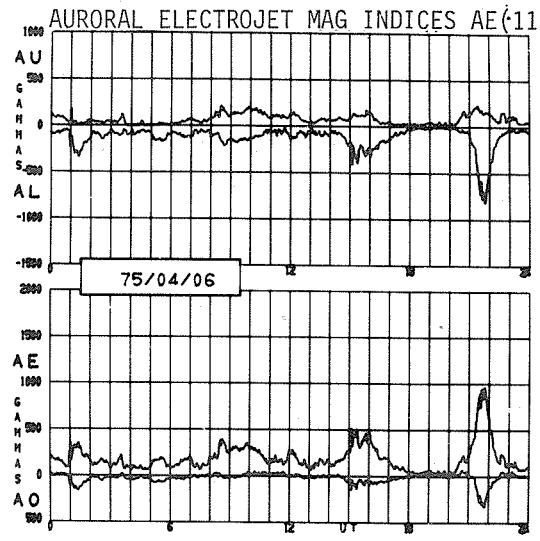
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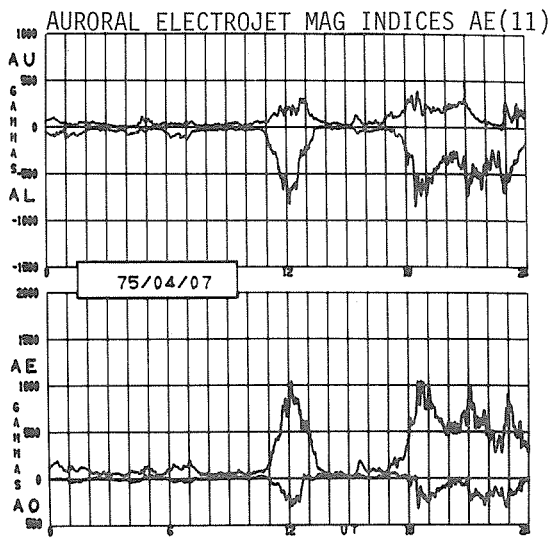
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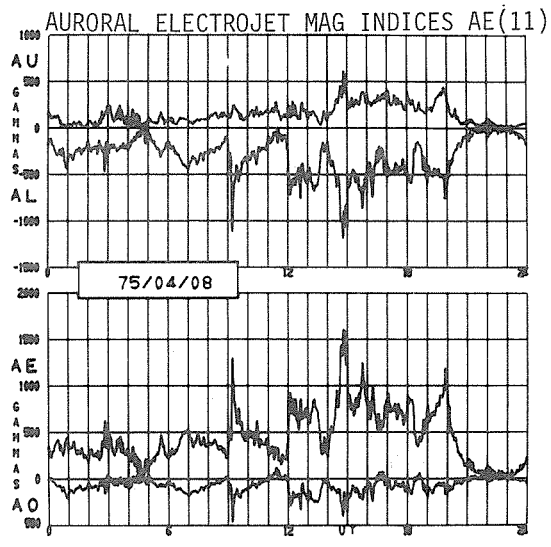
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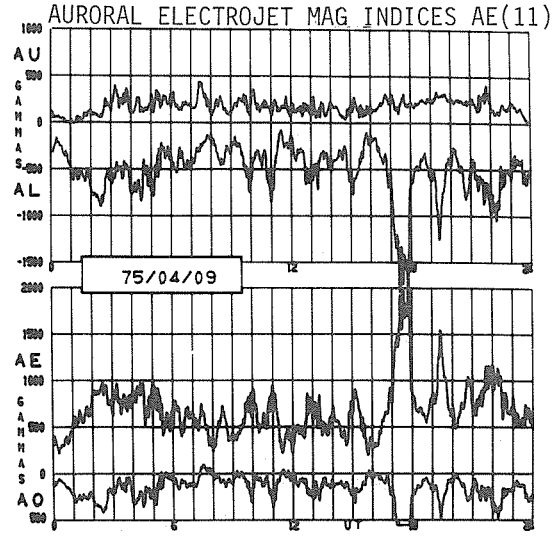
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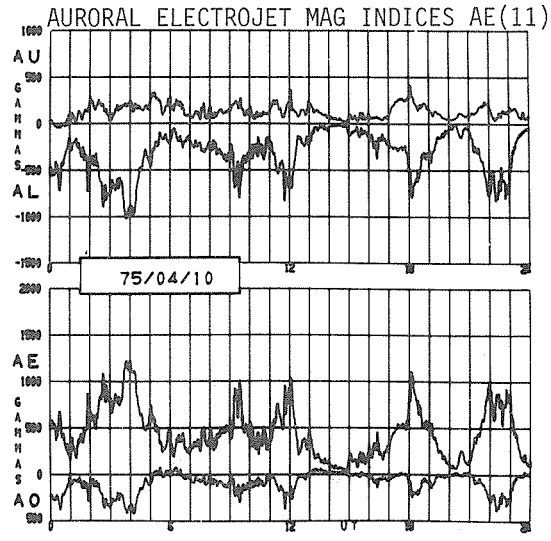
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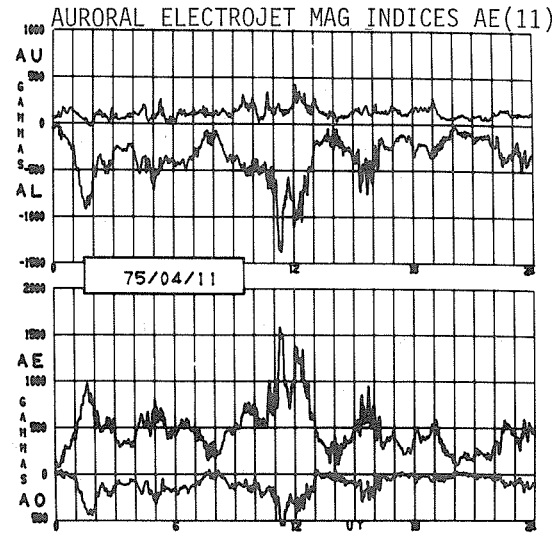
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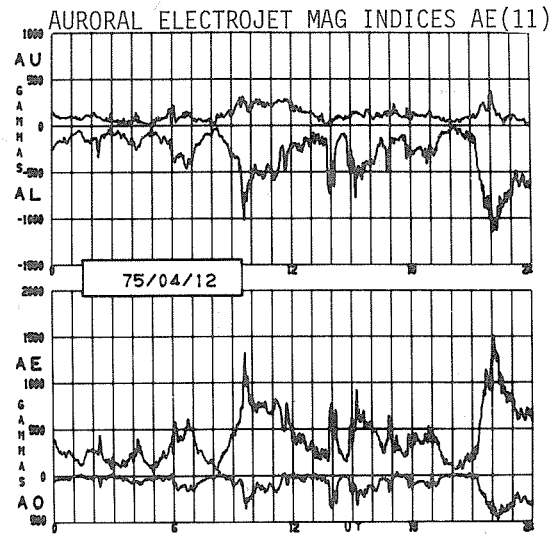
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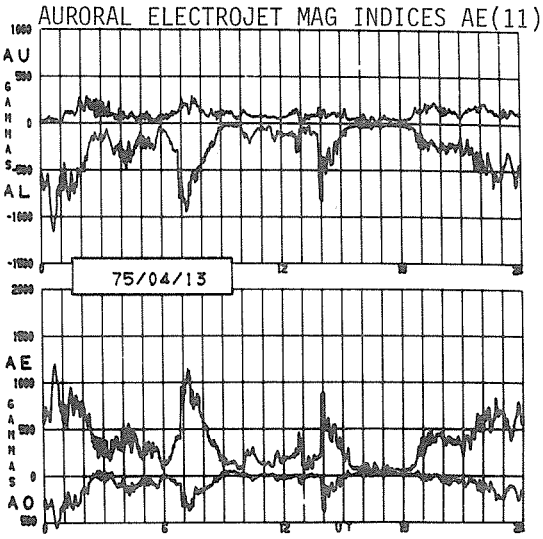
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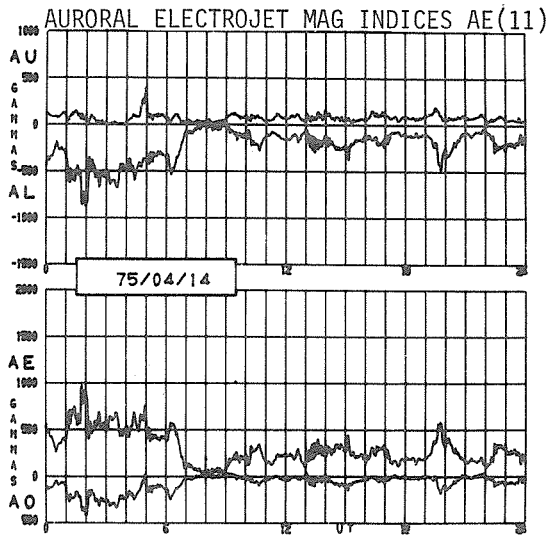
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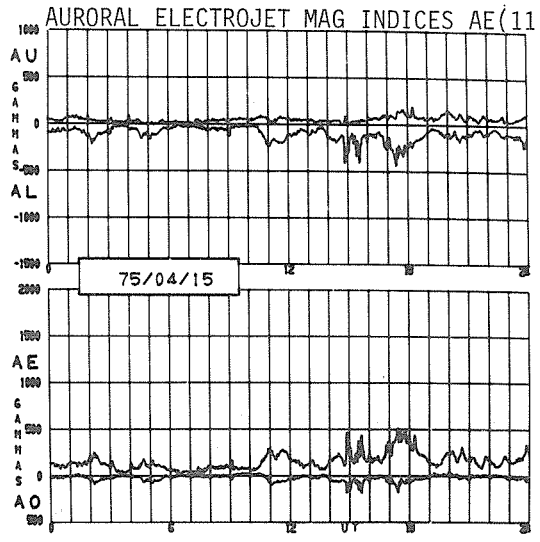
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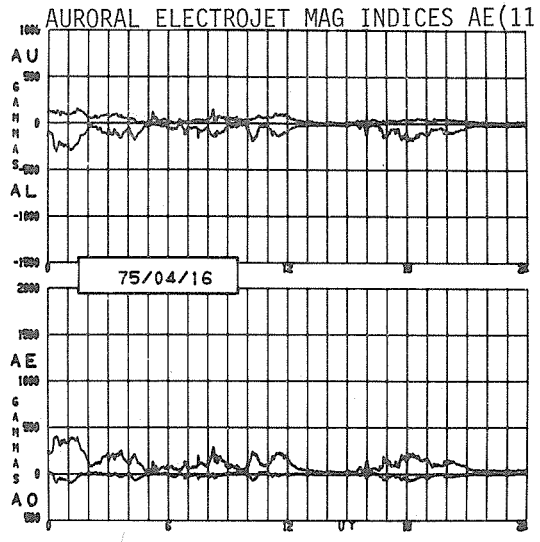
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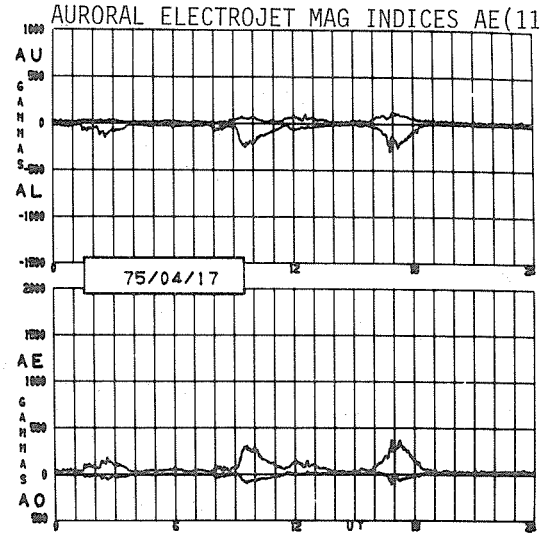
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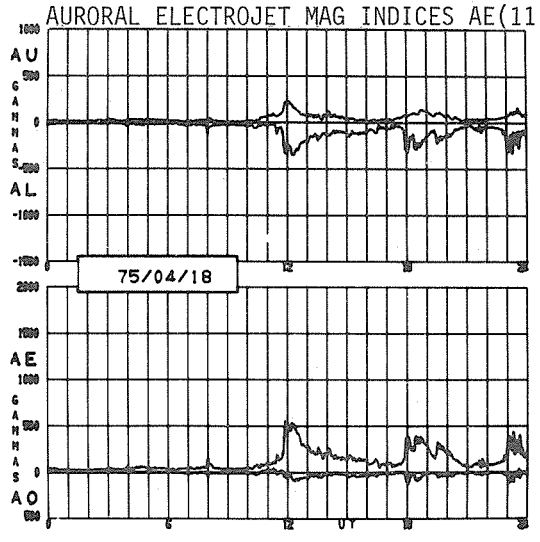
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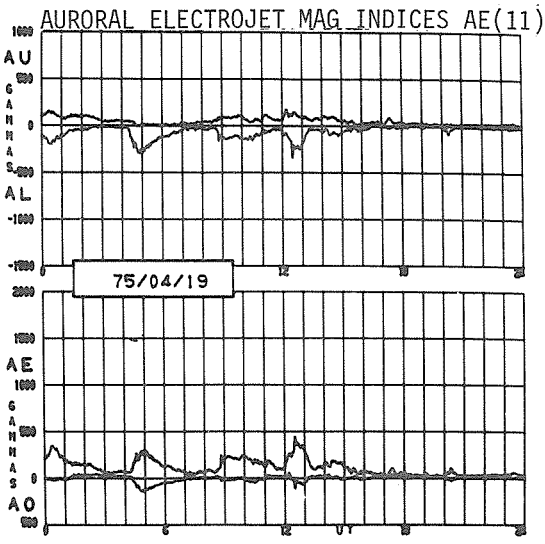
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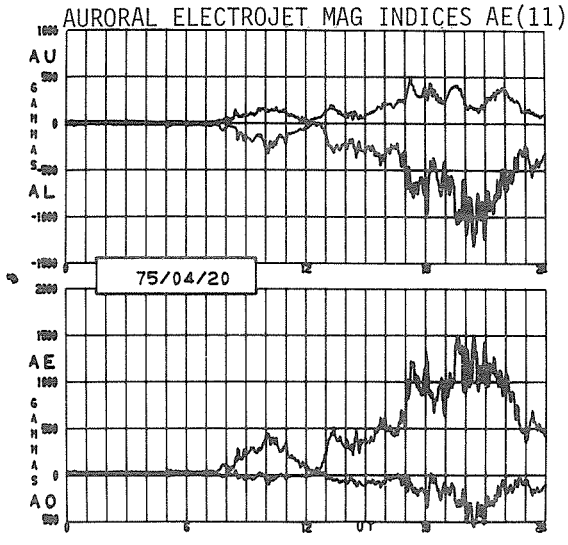
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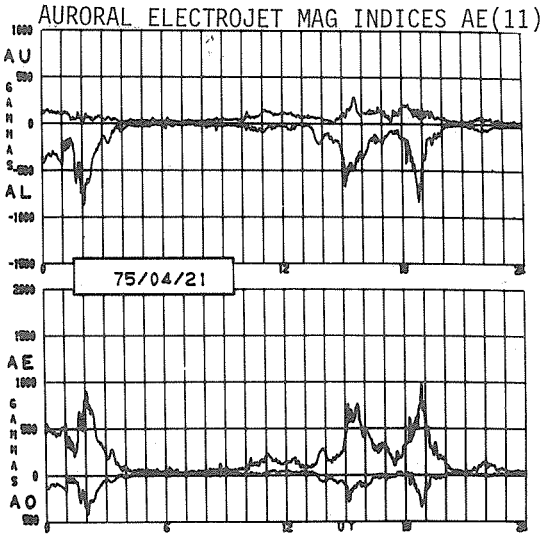
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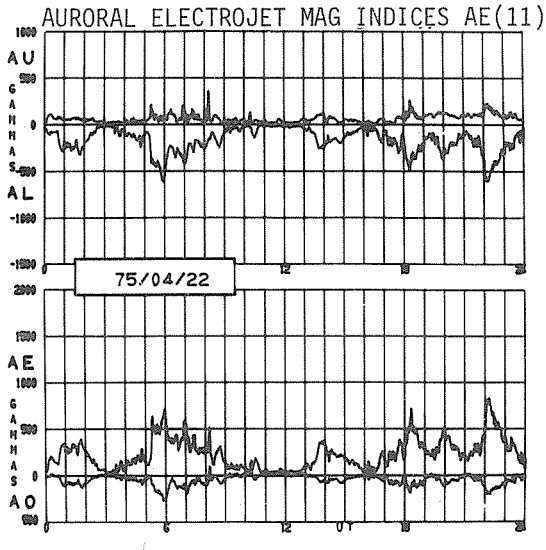
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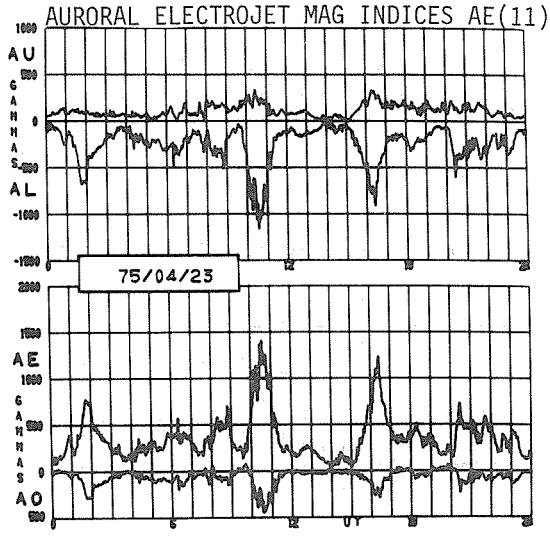
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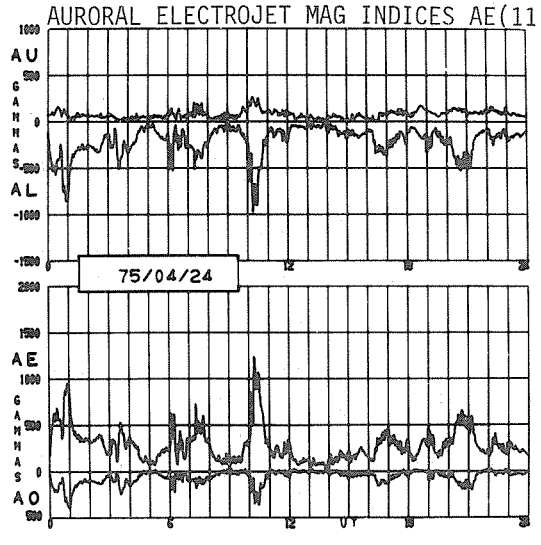
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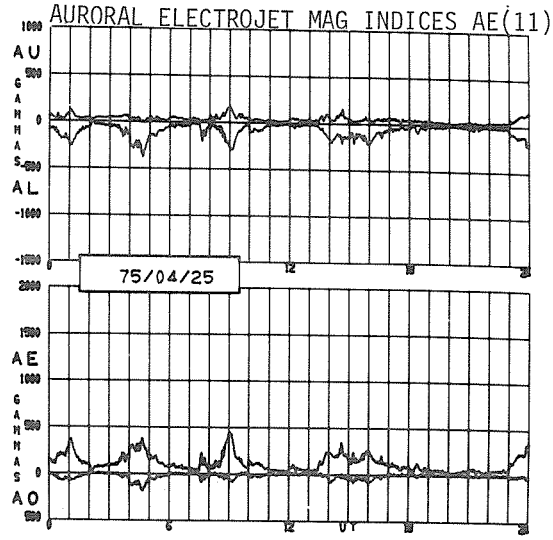
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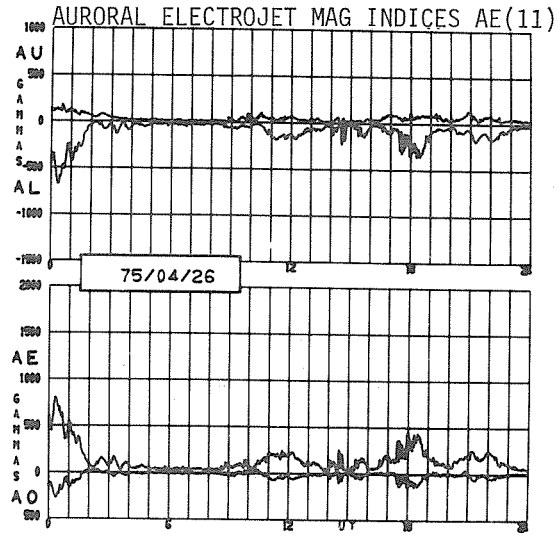
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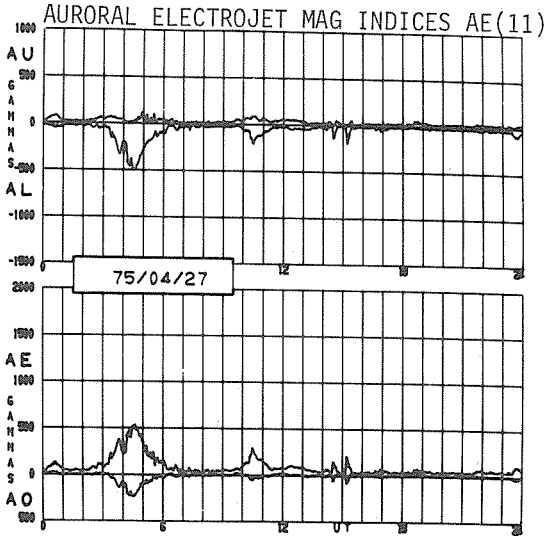
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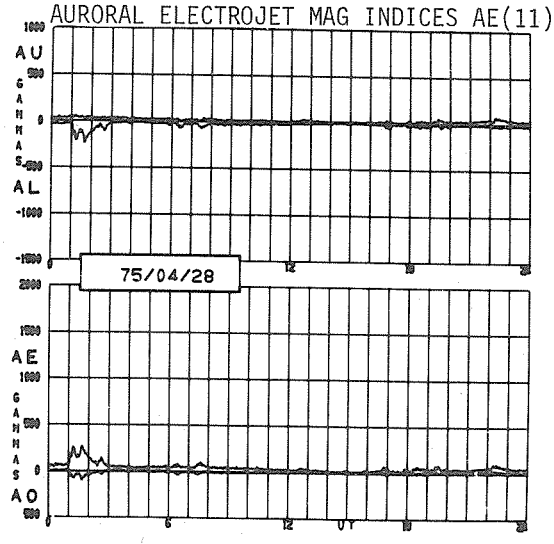
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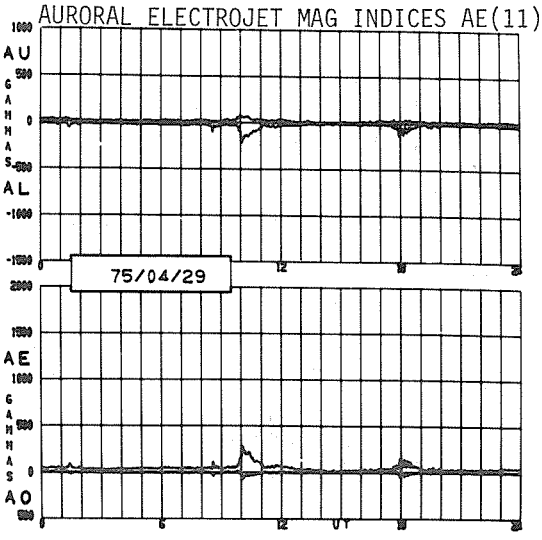
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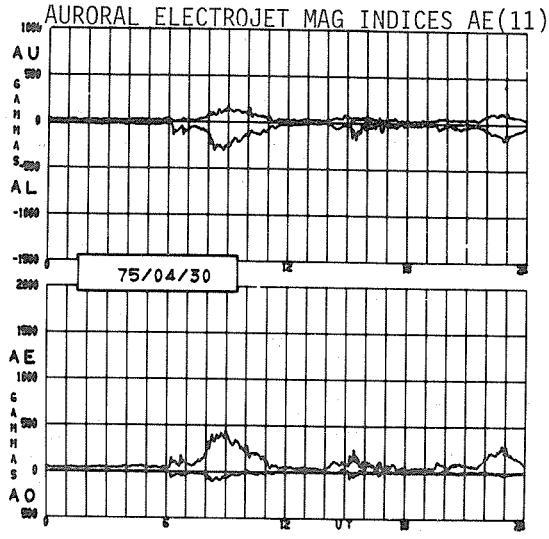
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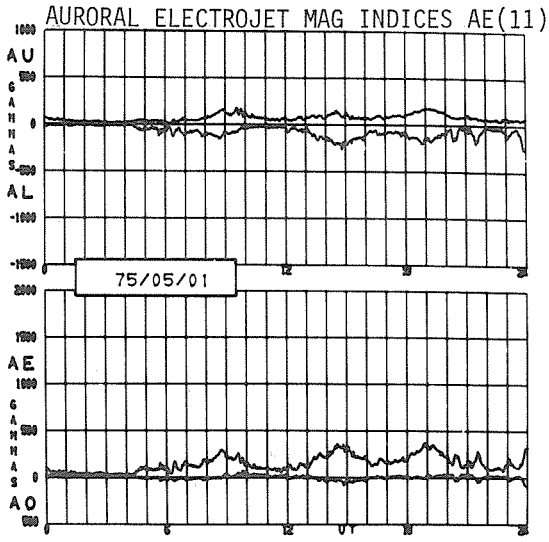
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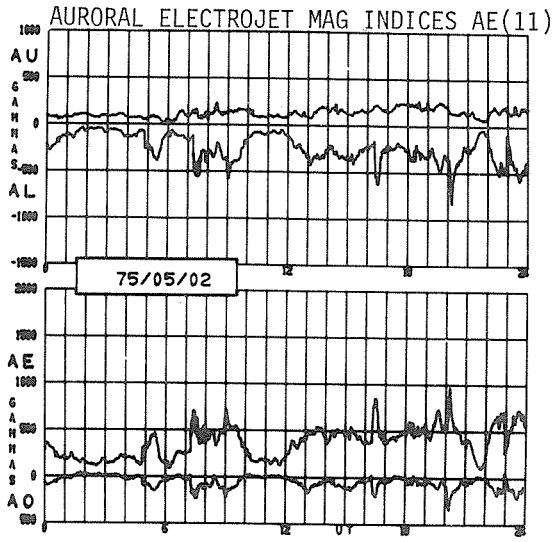
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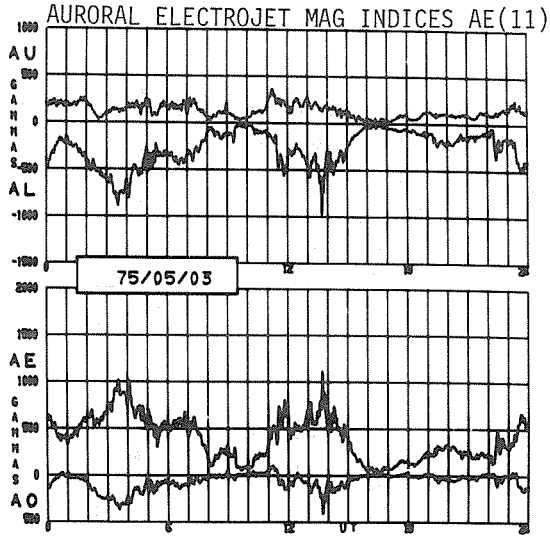
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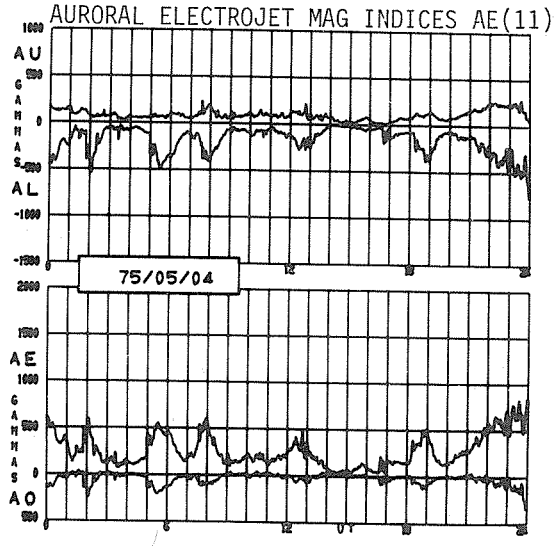
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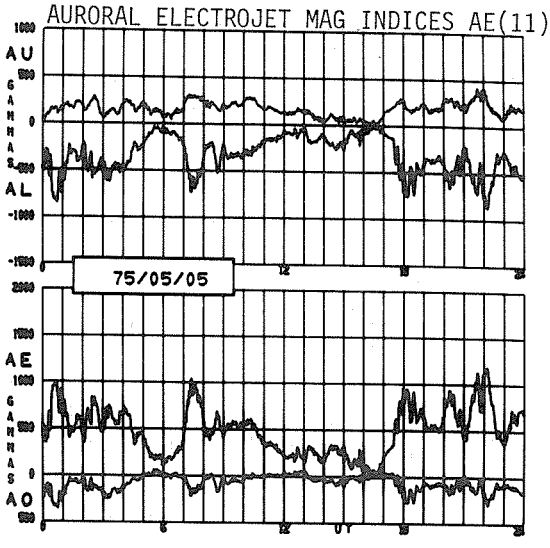
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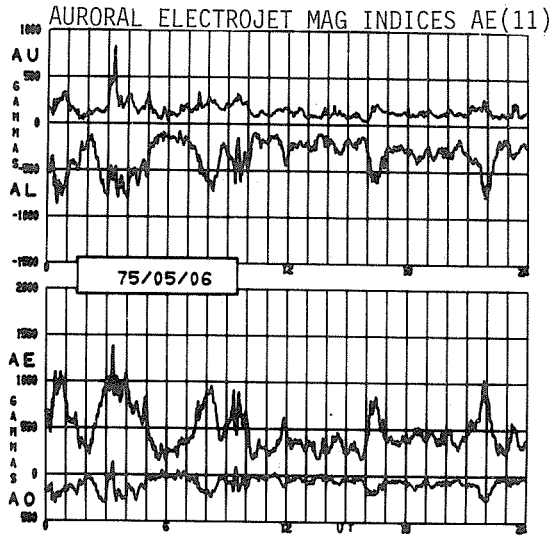
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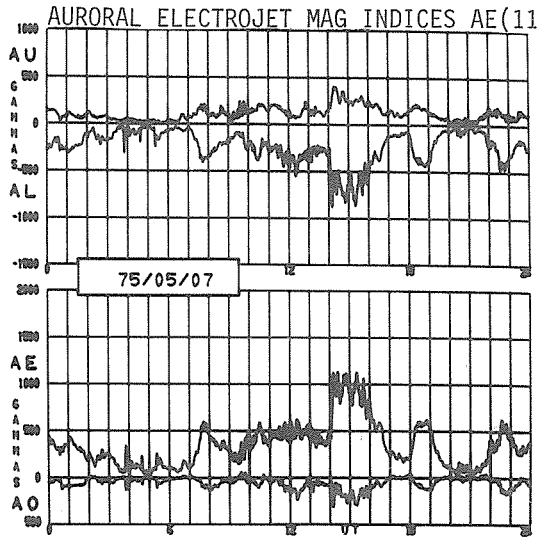
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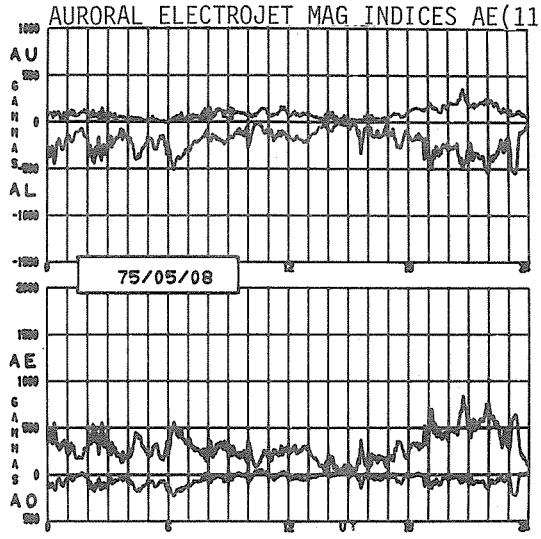
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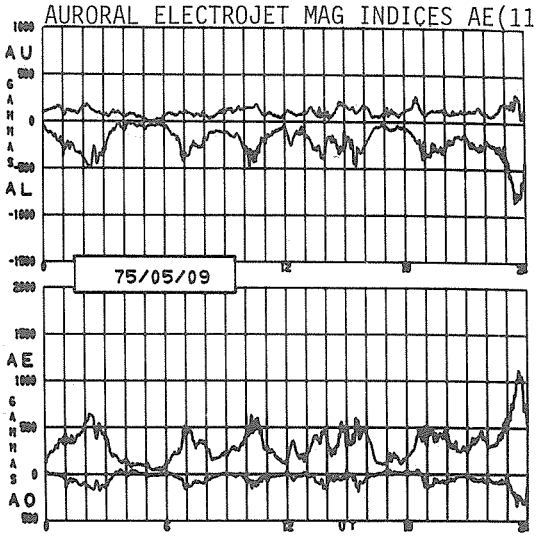
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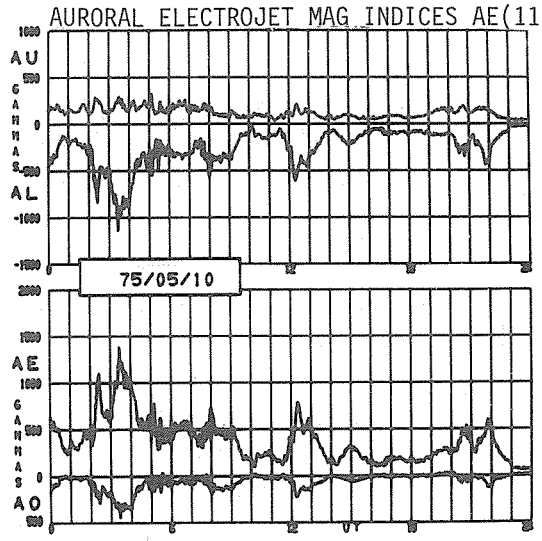
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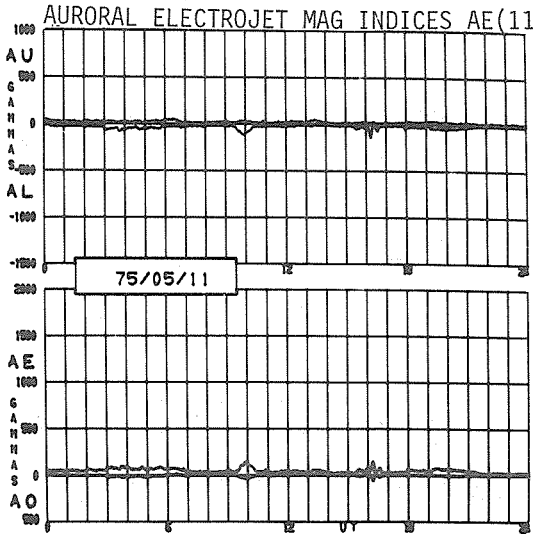
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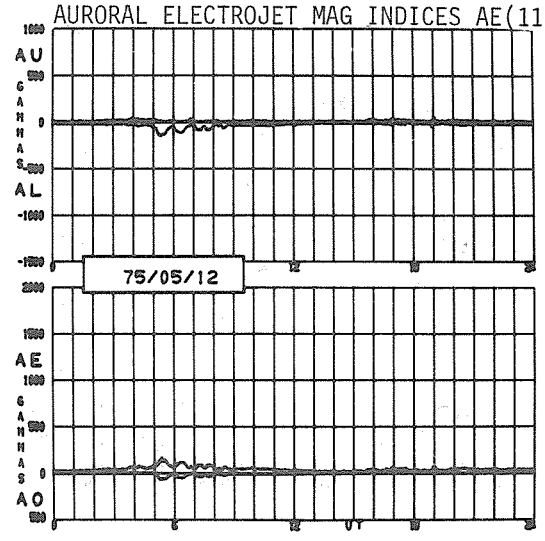
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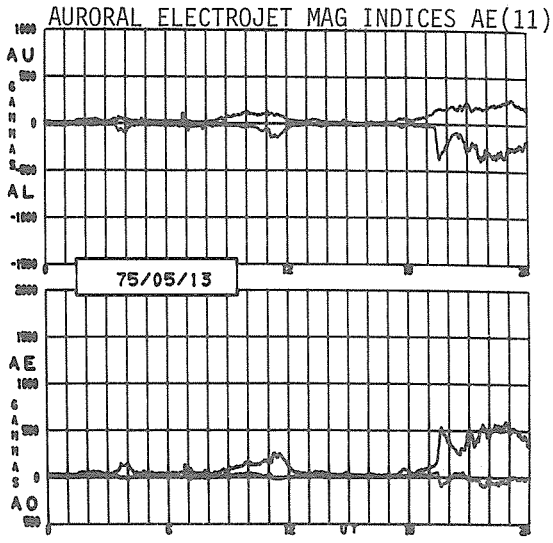
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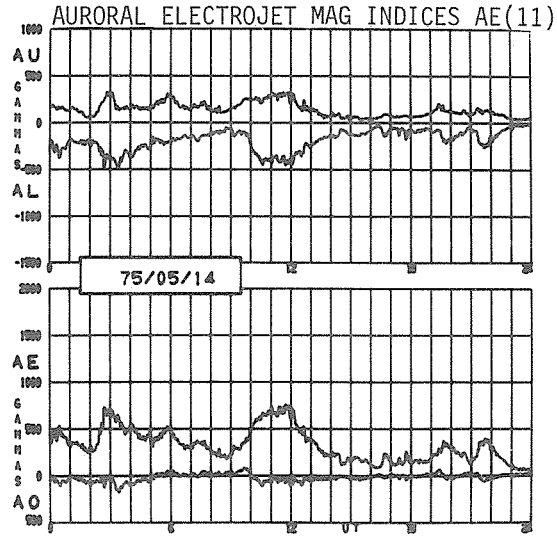
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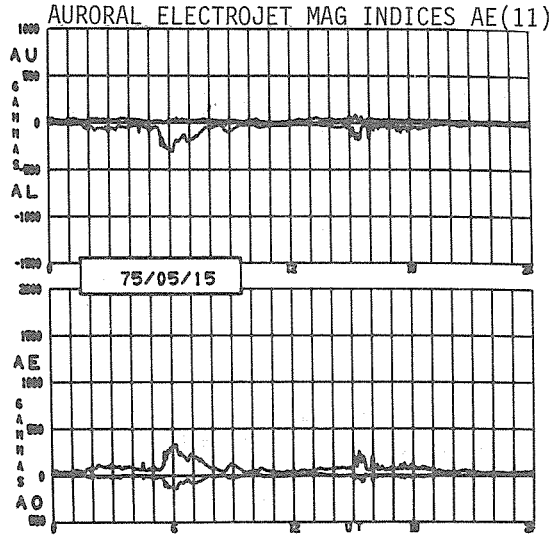
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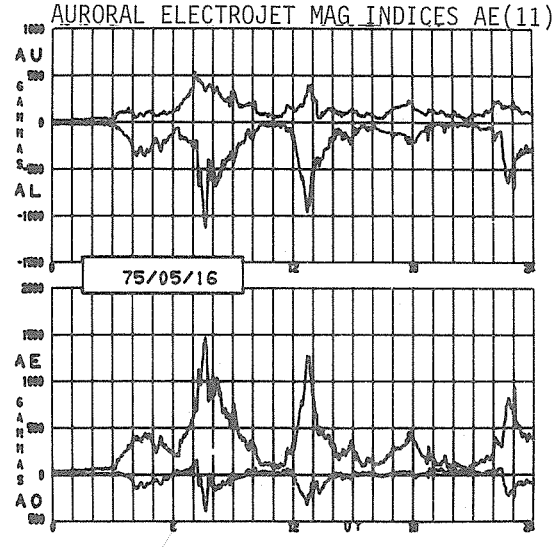
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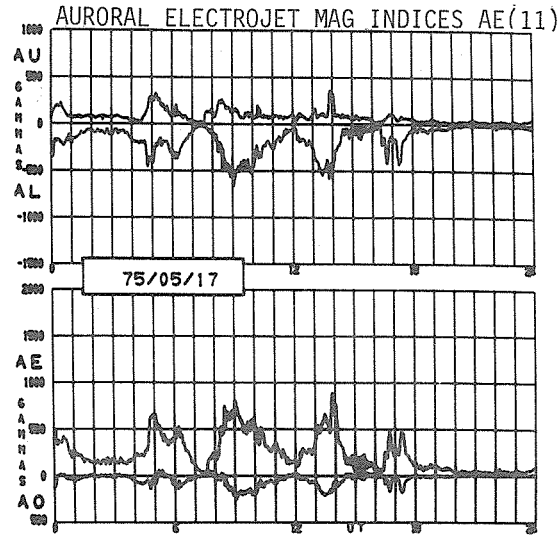
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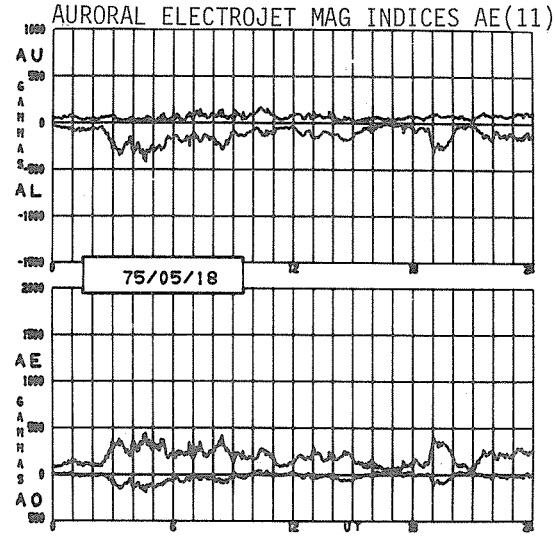
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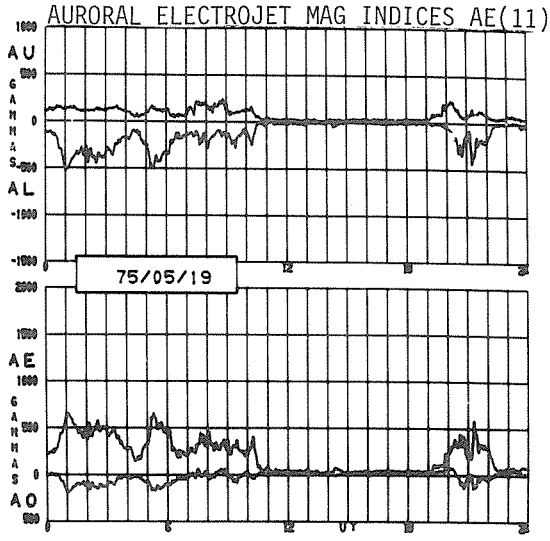
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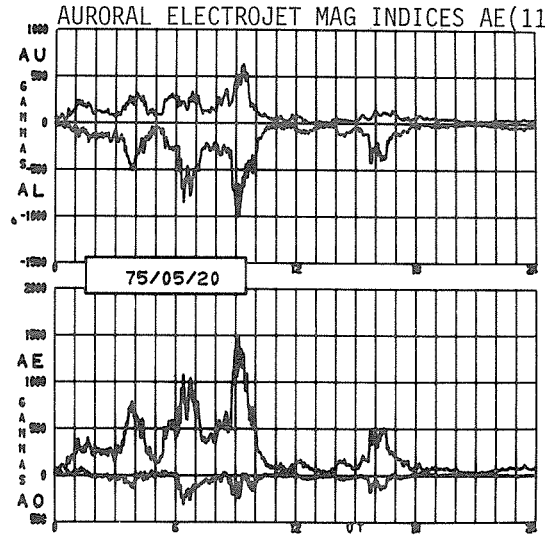
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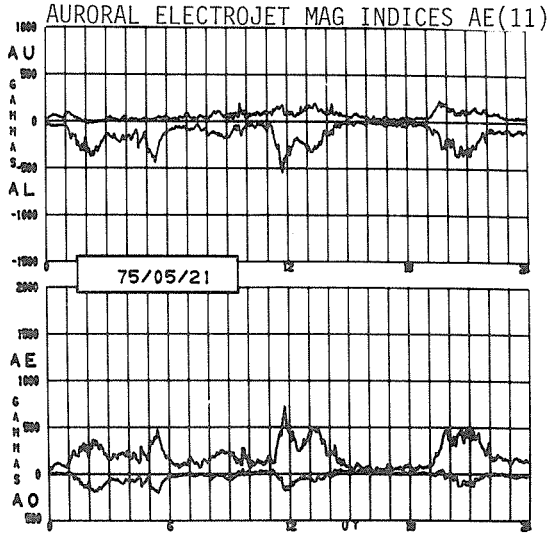
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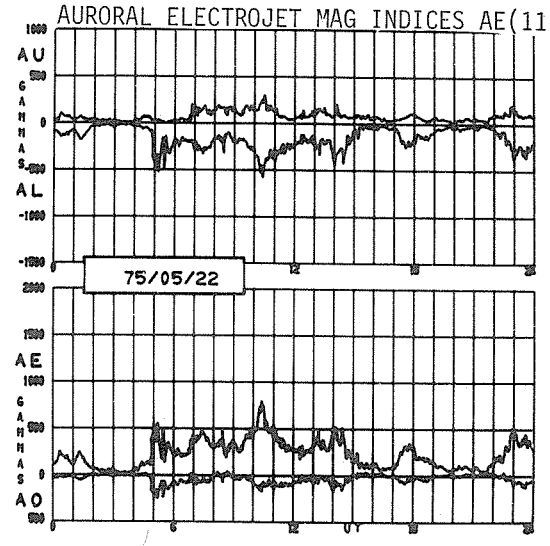
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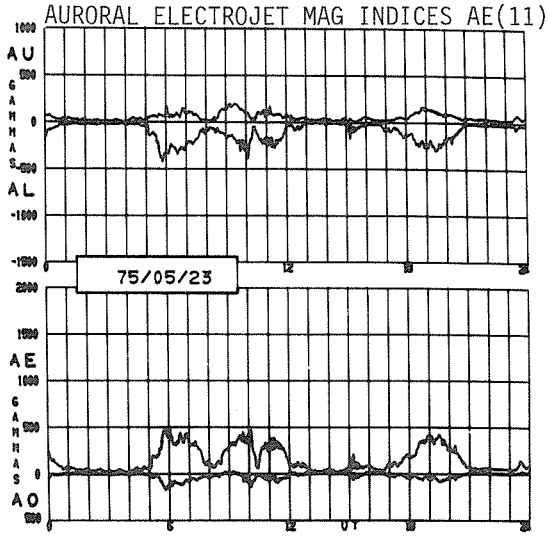
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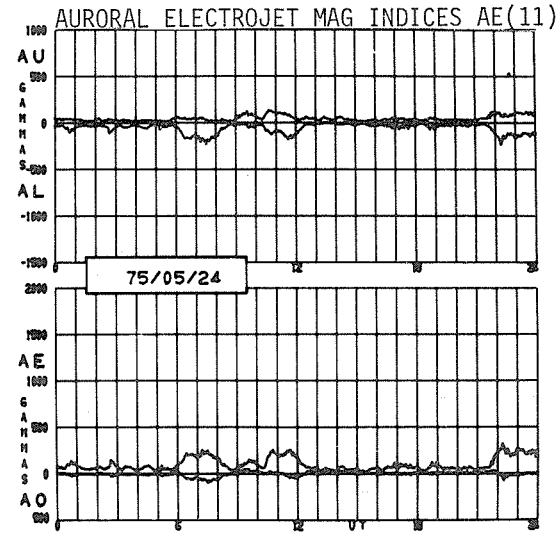
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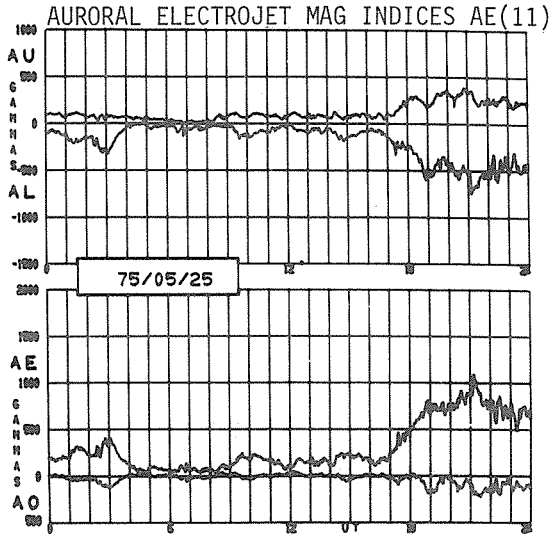
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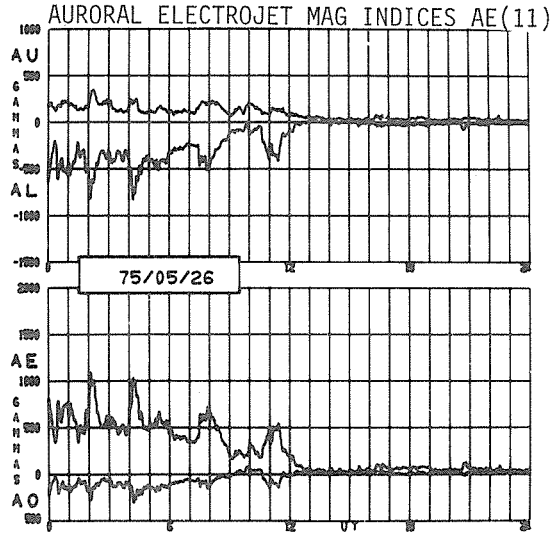
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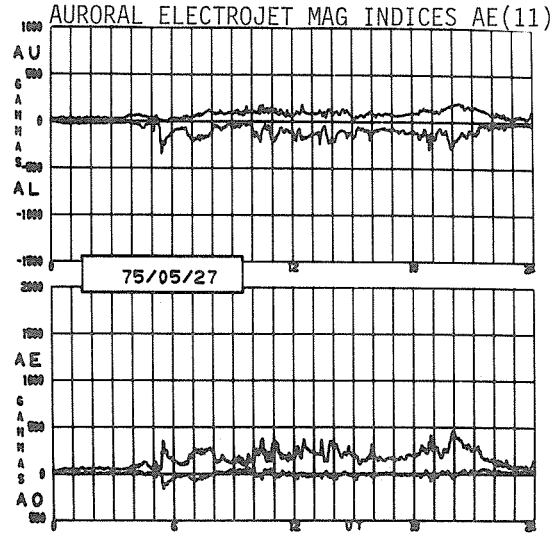
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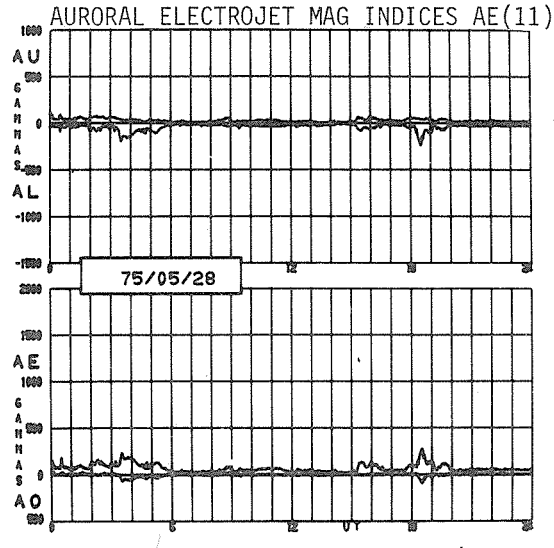
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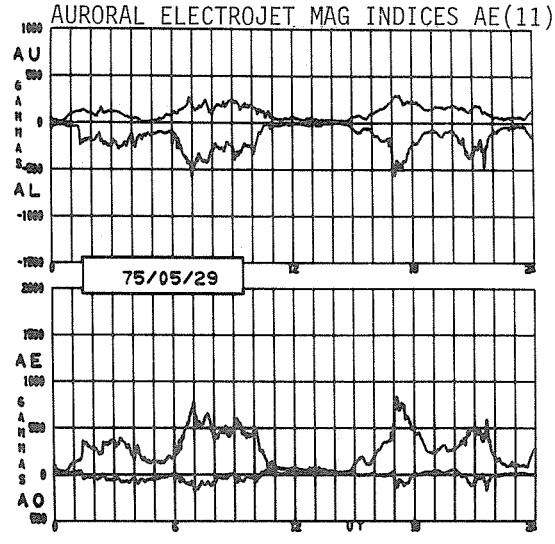
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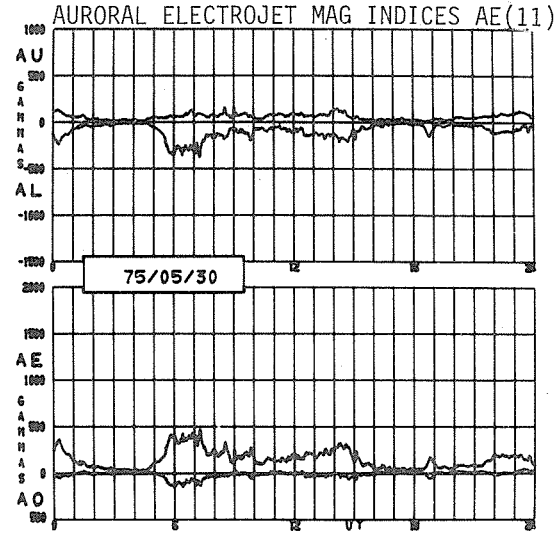
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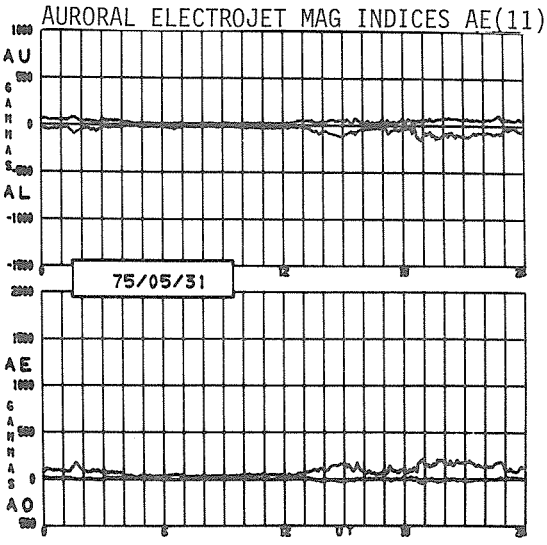
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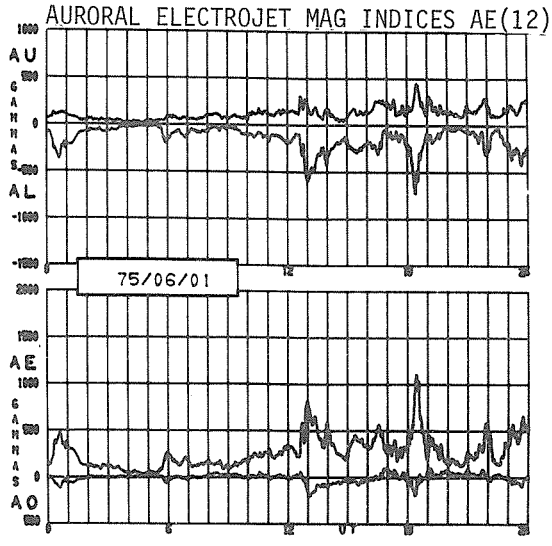
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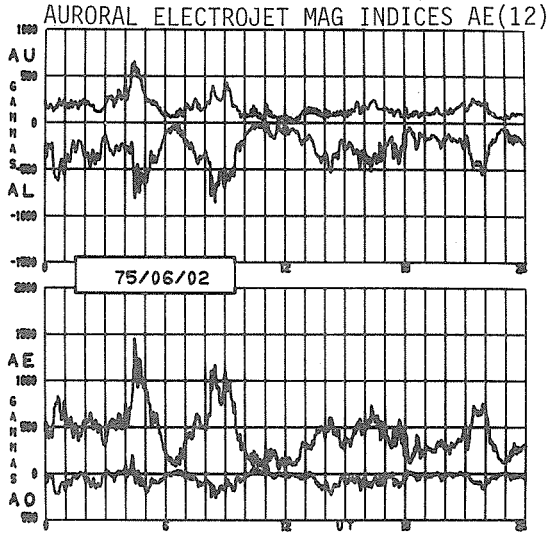
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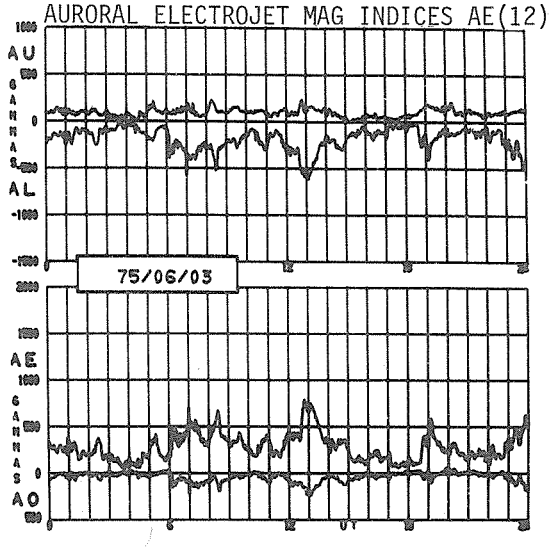
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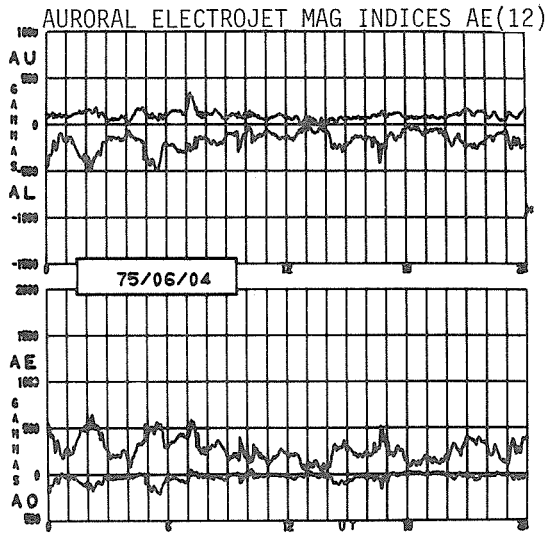
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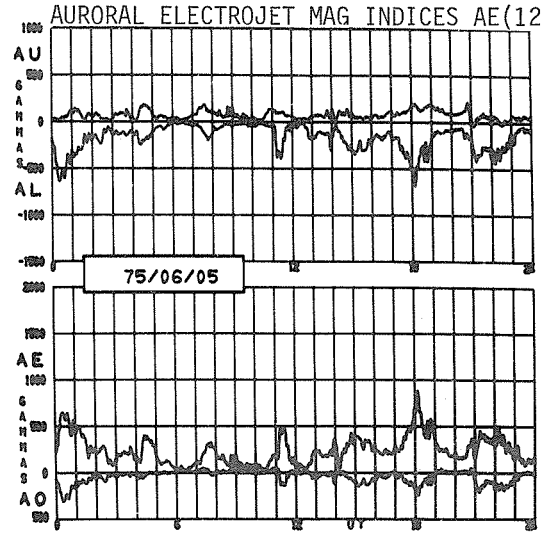
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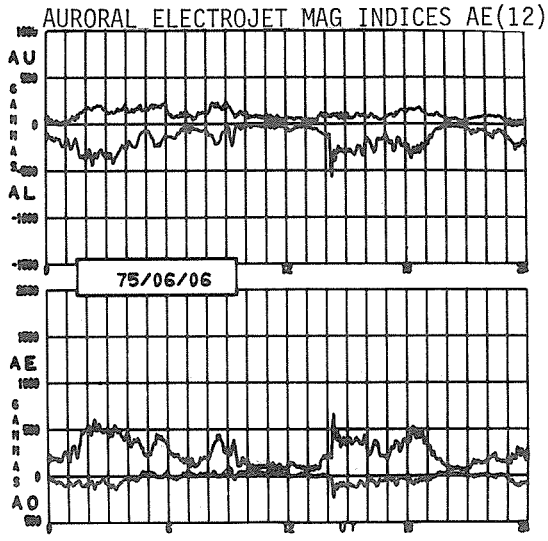
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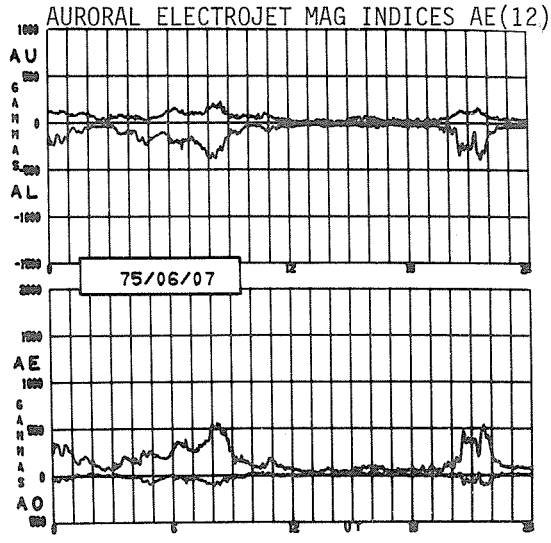
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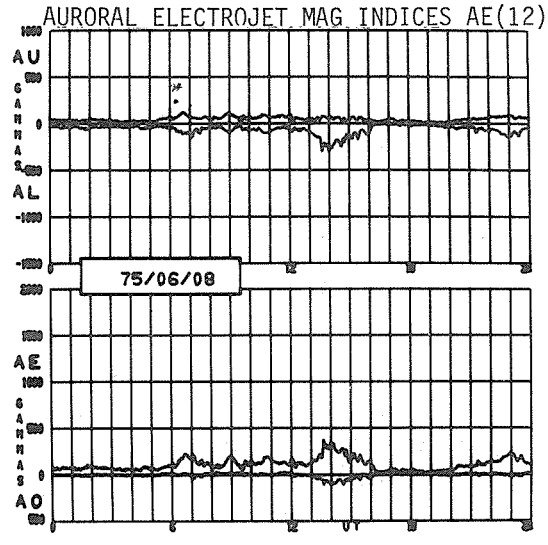
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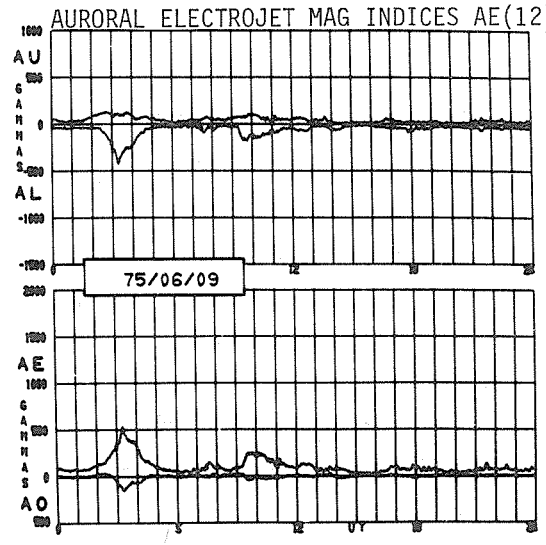
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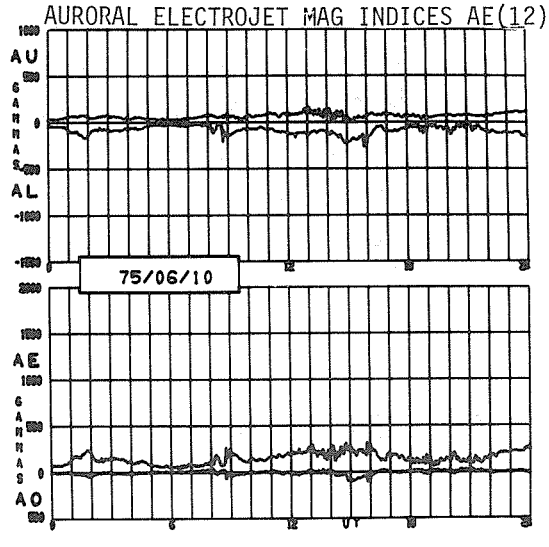
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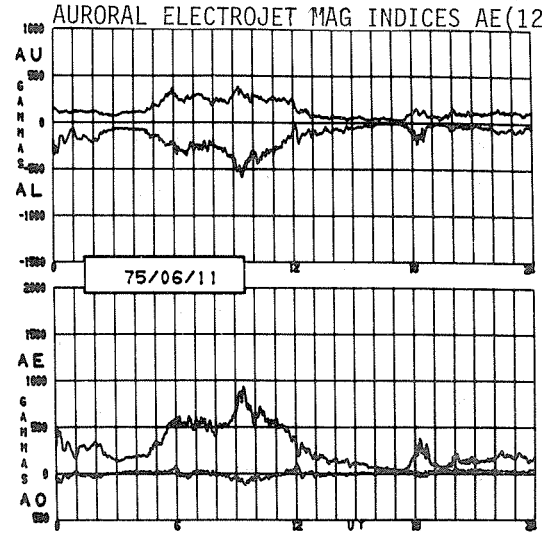
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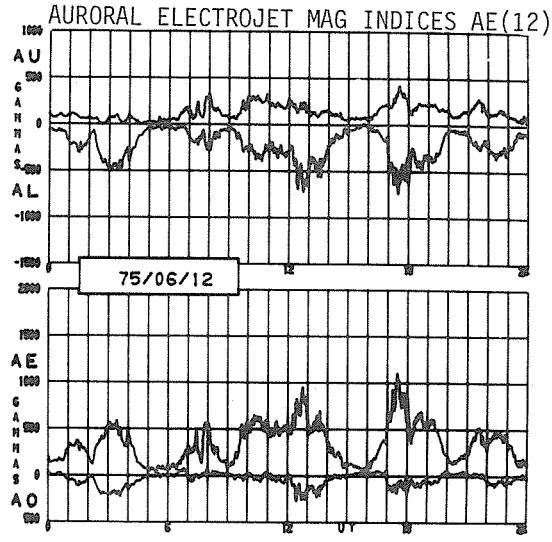
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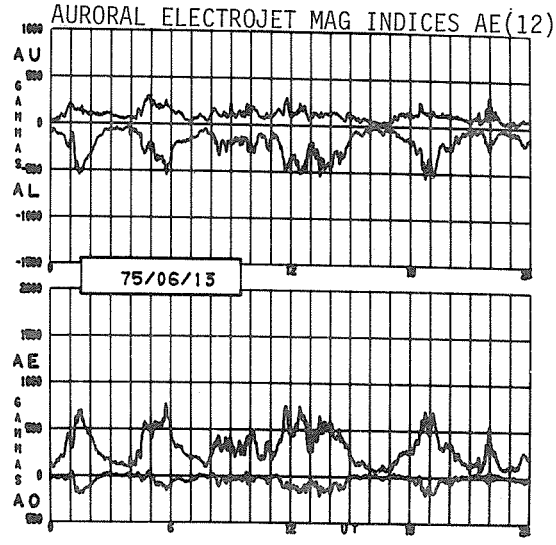
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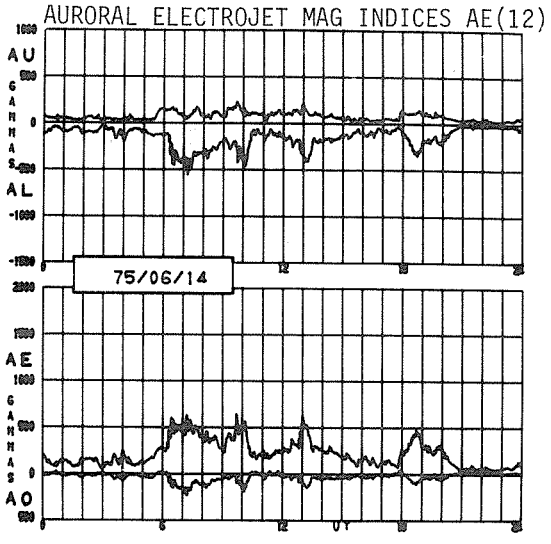
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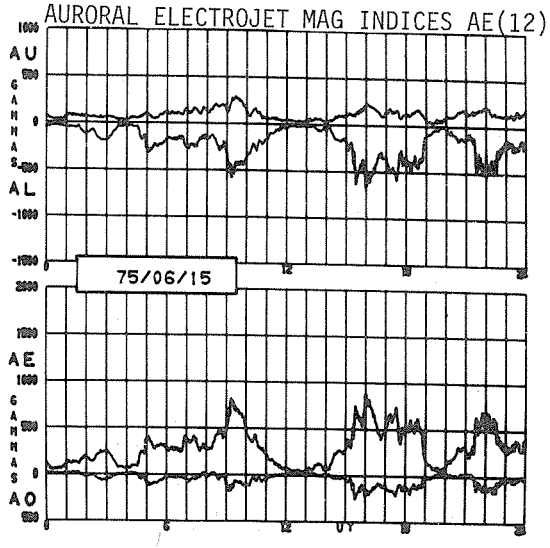
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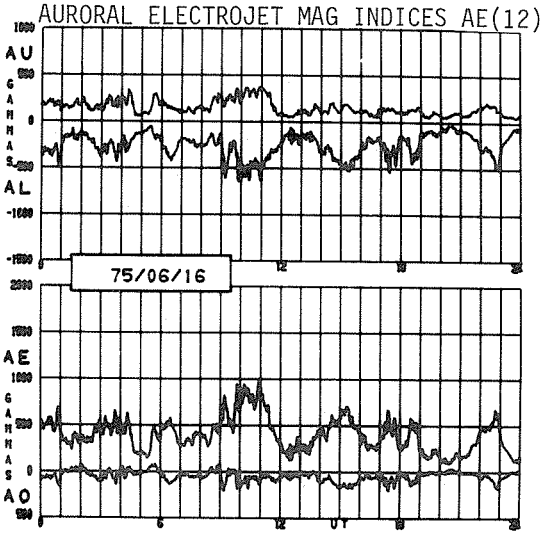
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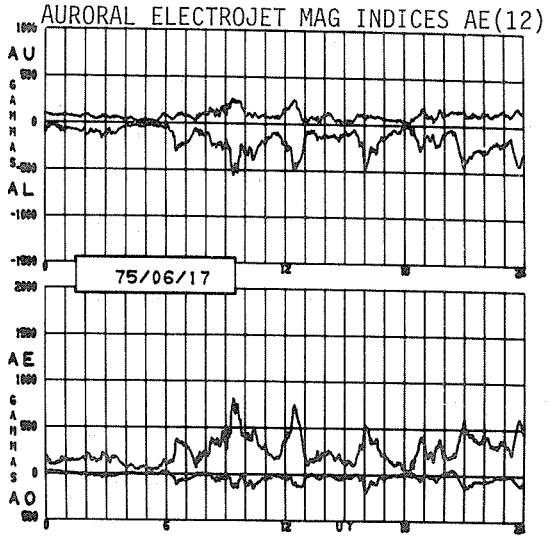
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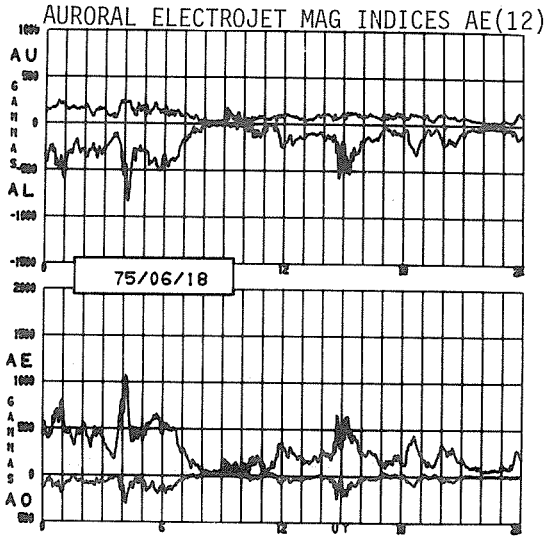
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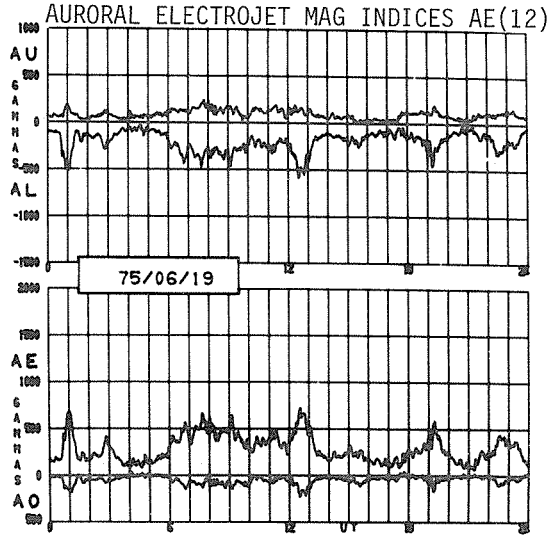
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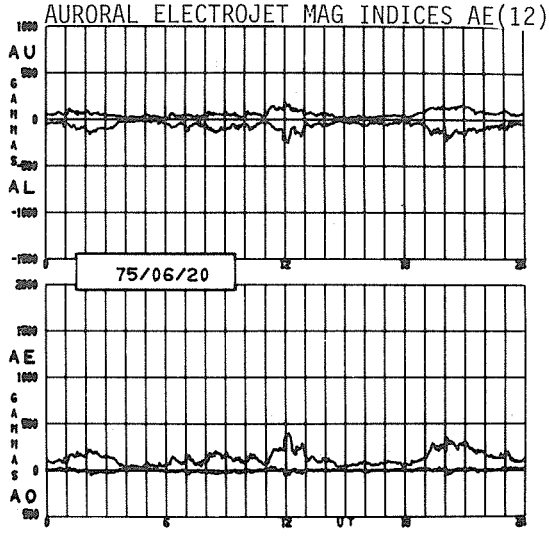
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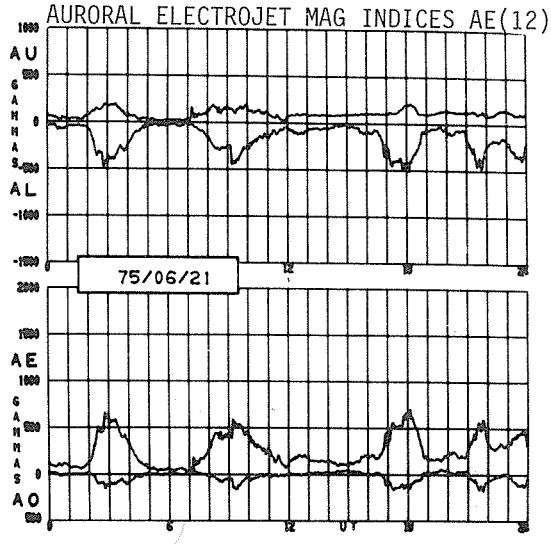
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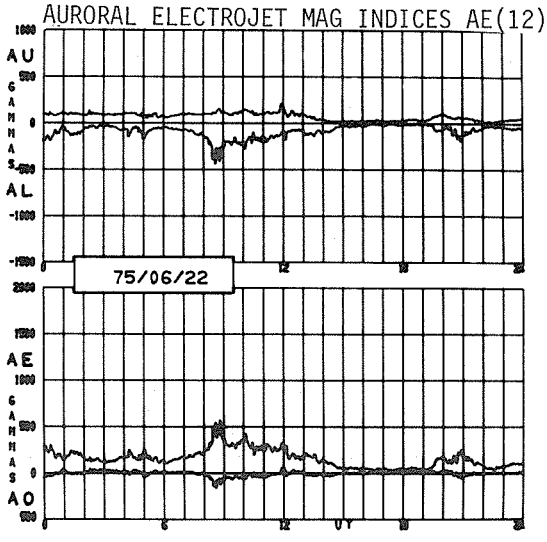
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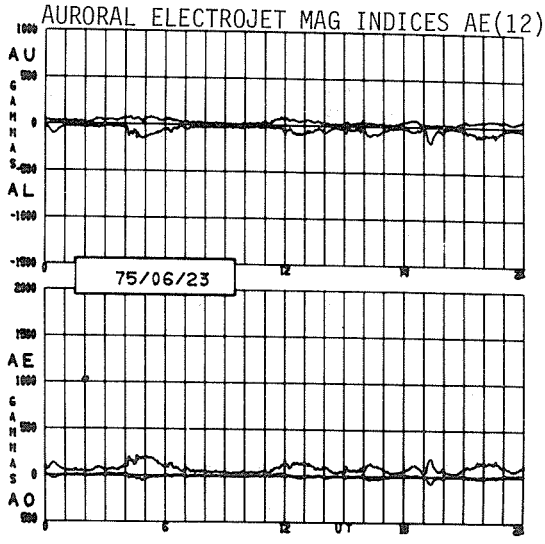
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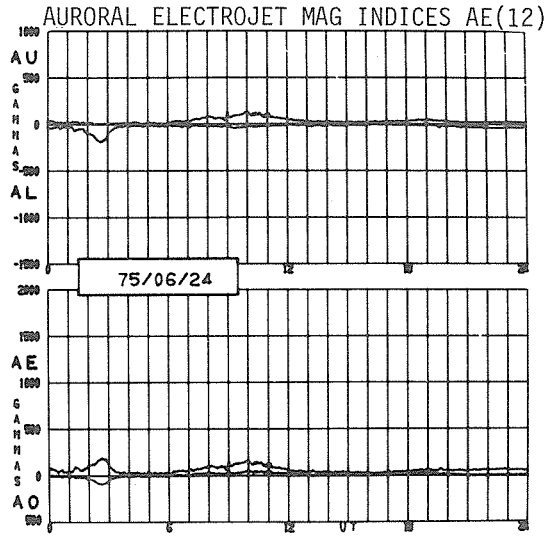
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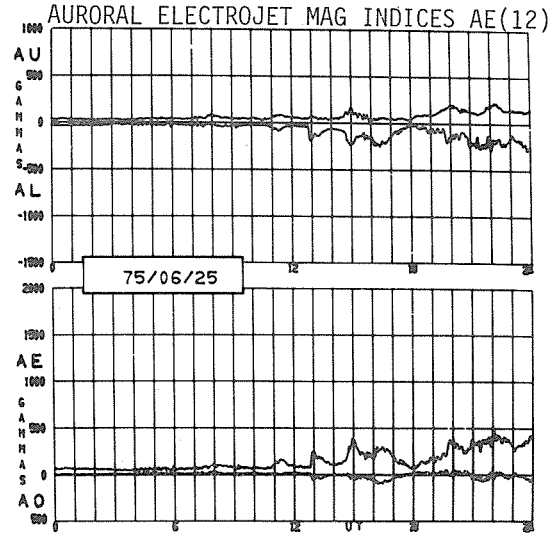
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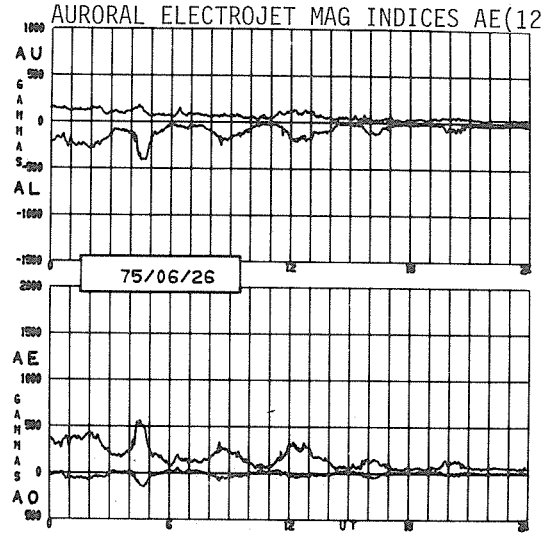
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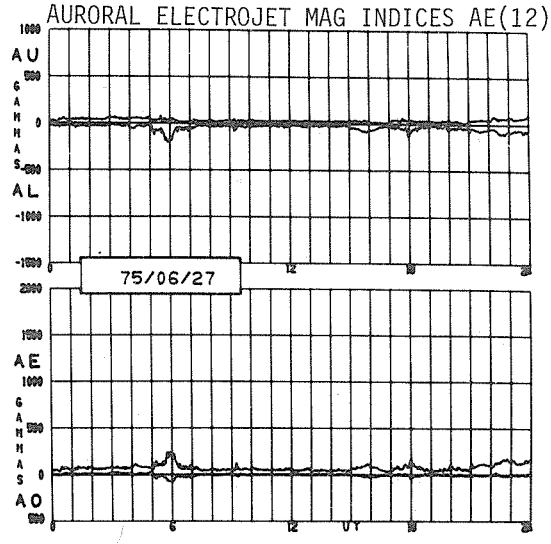
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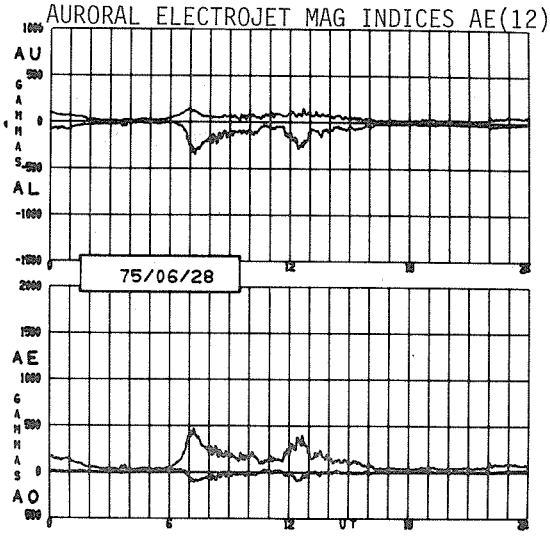
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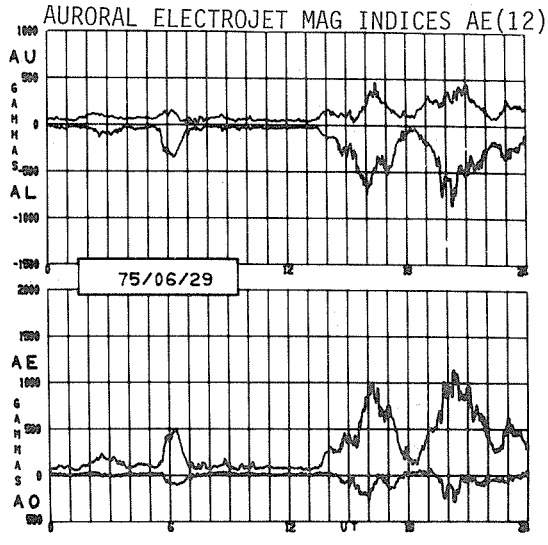
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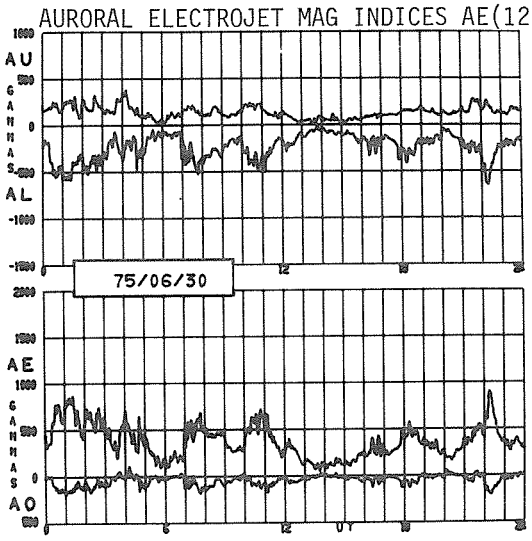
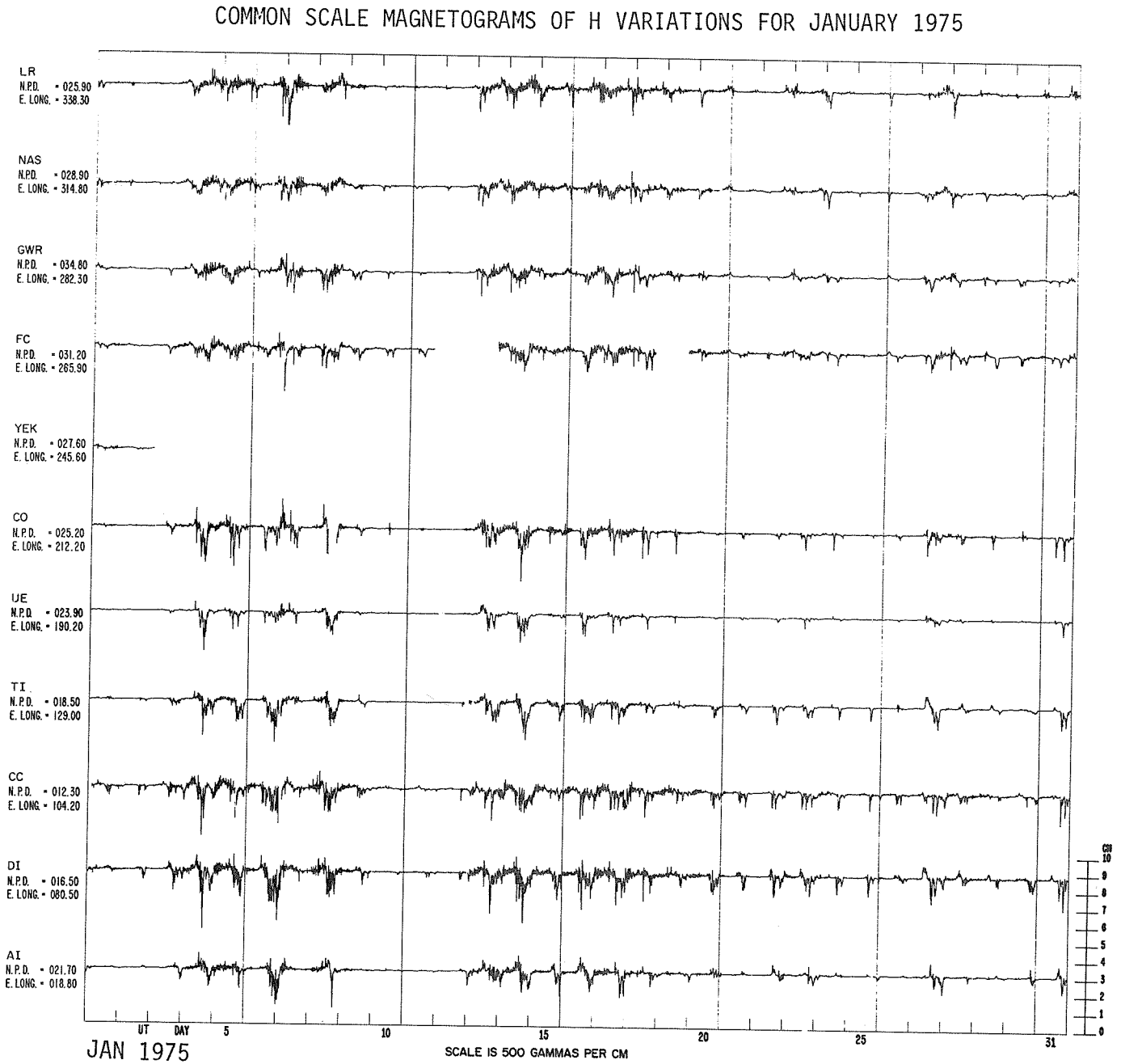
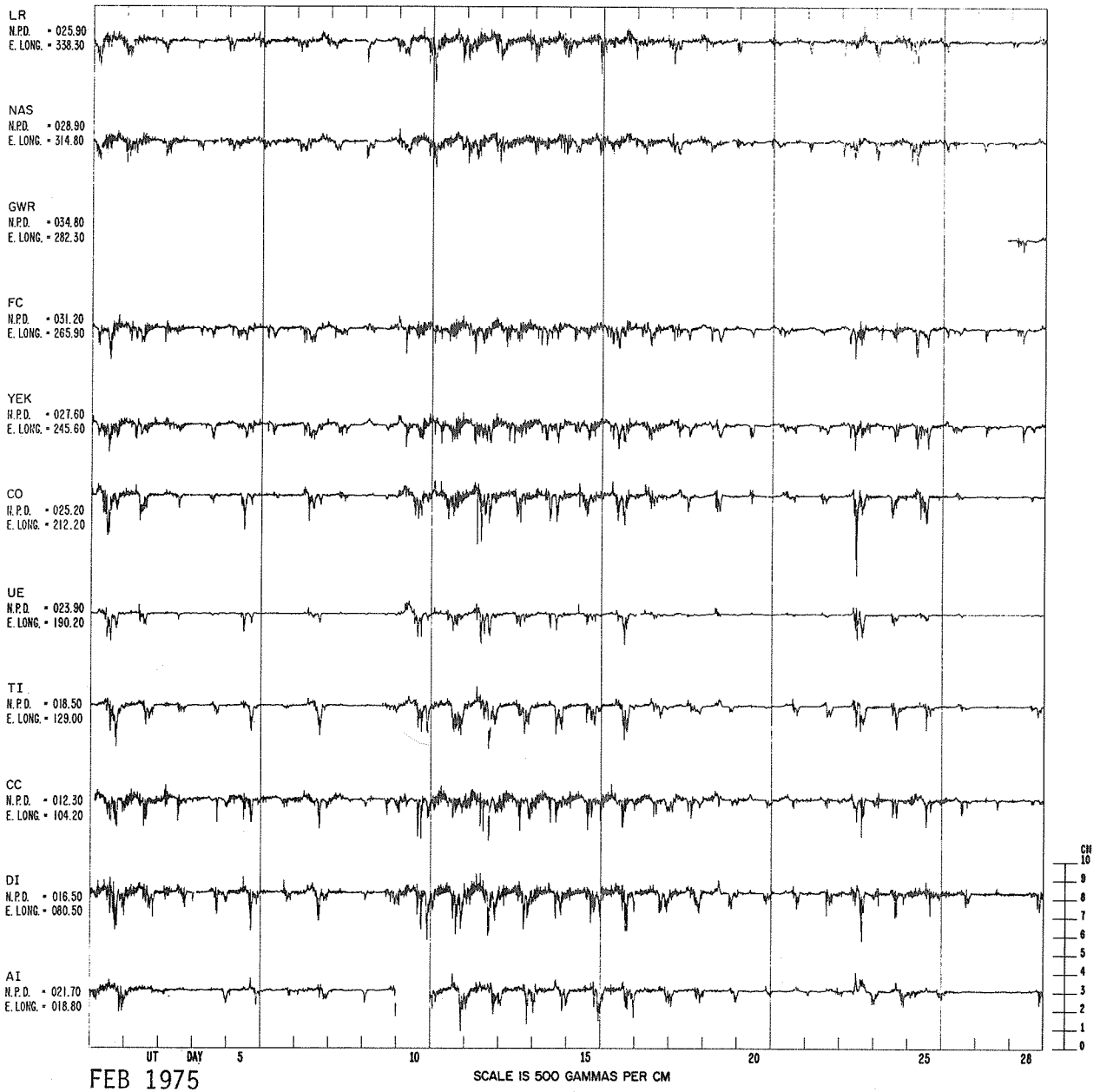


## 3. Stacked Common Scale Magnetograms

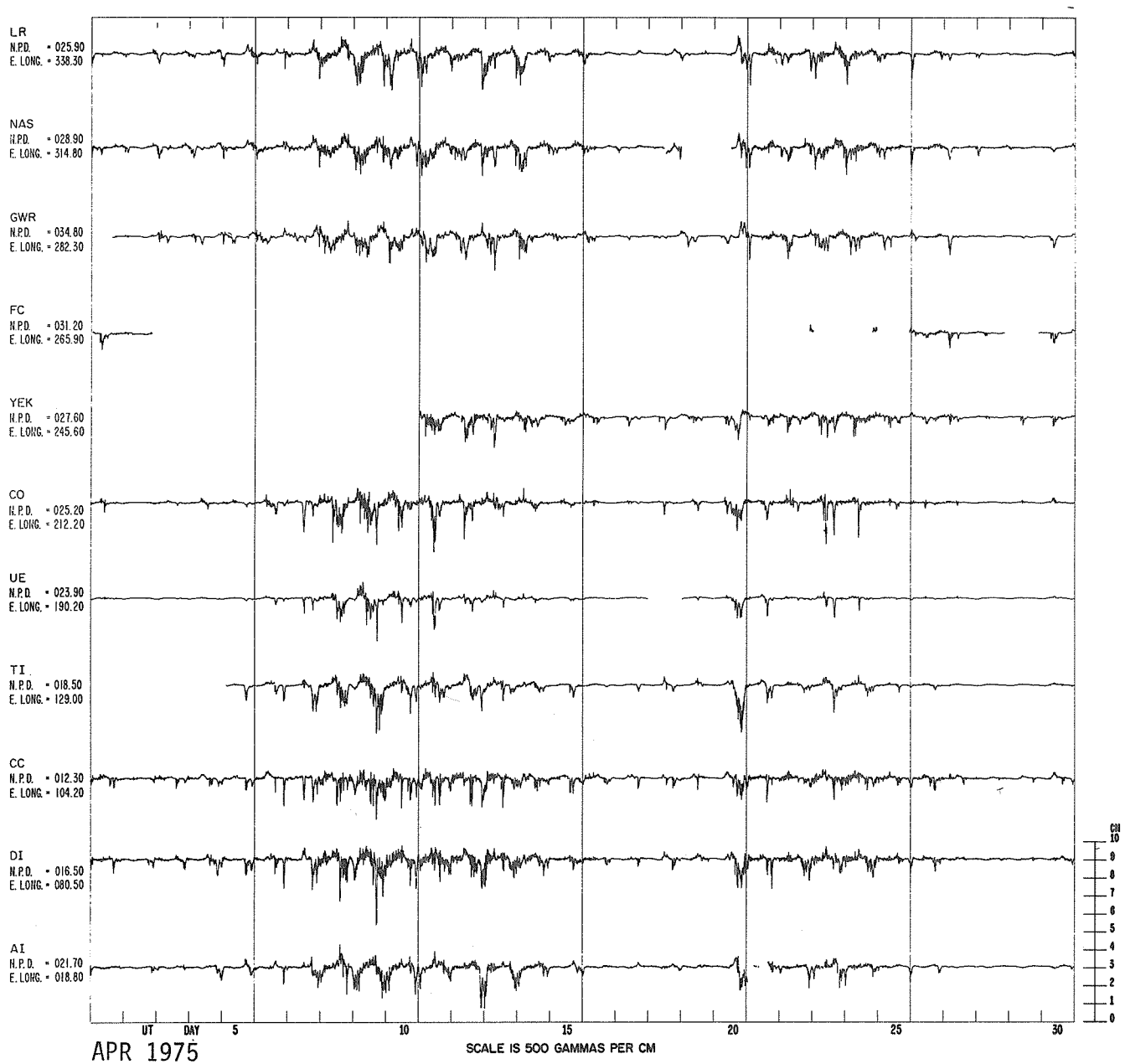


# COMMON SCALE MAGNETOGRAMS OF H VARIATIONS FOR FEBRUARY 1975



# COMMON SCALE MAGNETOGRAMS OF H VARIATIONS FOR MARCH 1975

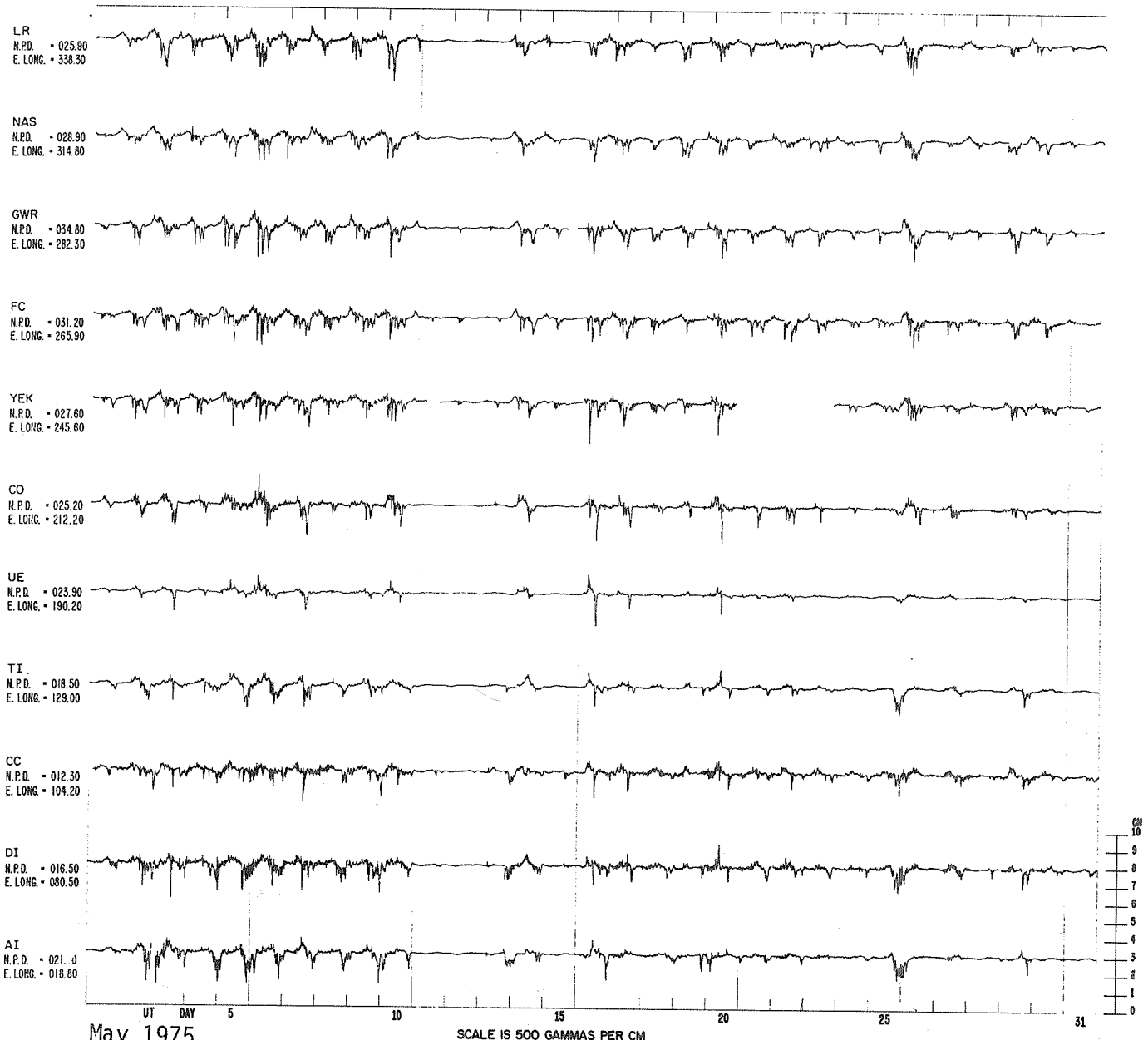
# COMMON SCALE MAGNETOGRAMS OF H VARIATIONS FOR APRIL 1975



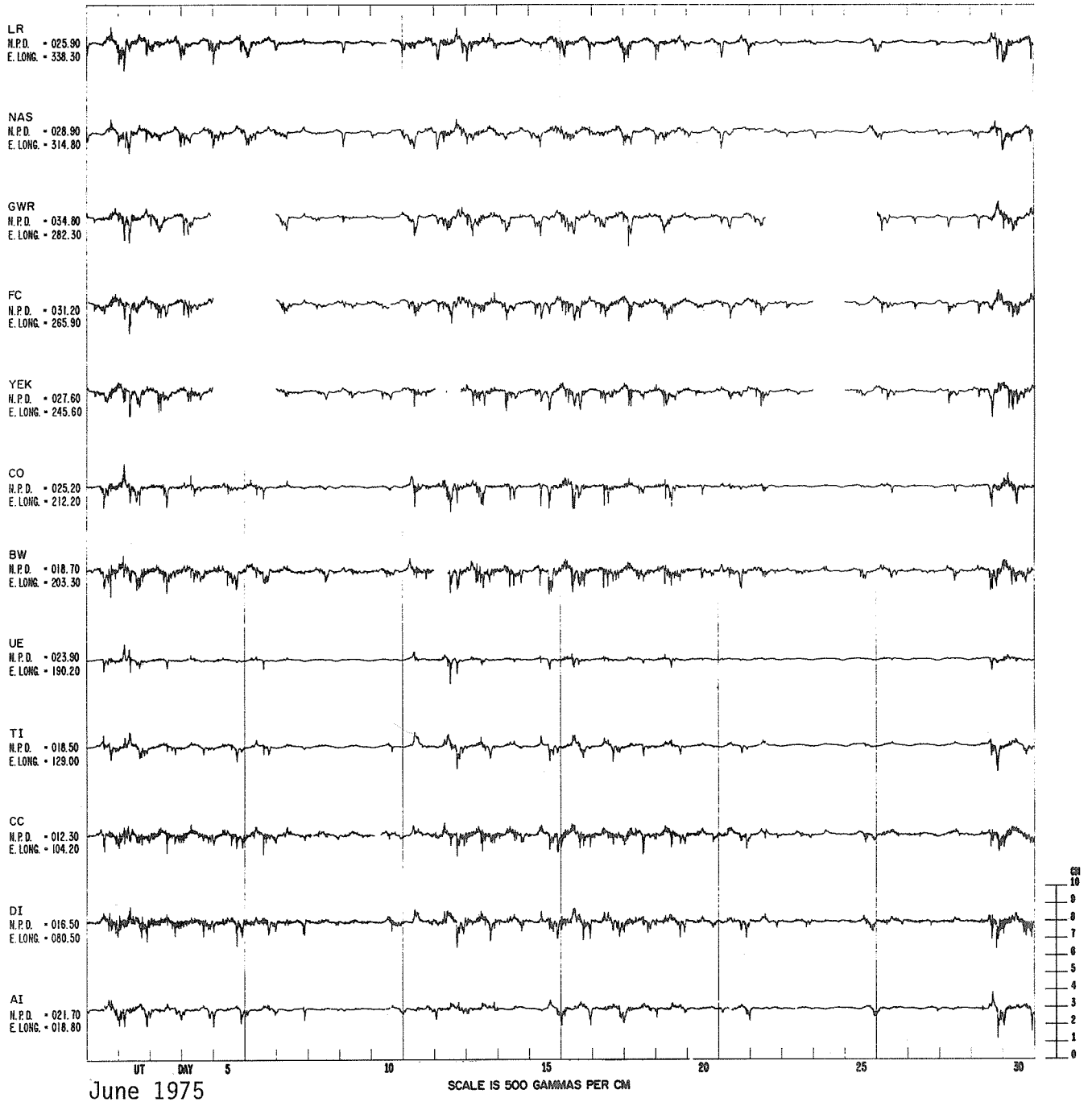

APR 1975

SCALE IS 500 GAMMAS PER CM

# COMMON SCALE MAGNETOGRAMS OF H VARIATIONS FOR MAY 1975



# COMMON SCALE MAGNETOGRAMS OF H VARIATIONS FOR JUNE 1975



## 4. Frequency of AU and AL Total Amplitude Plots

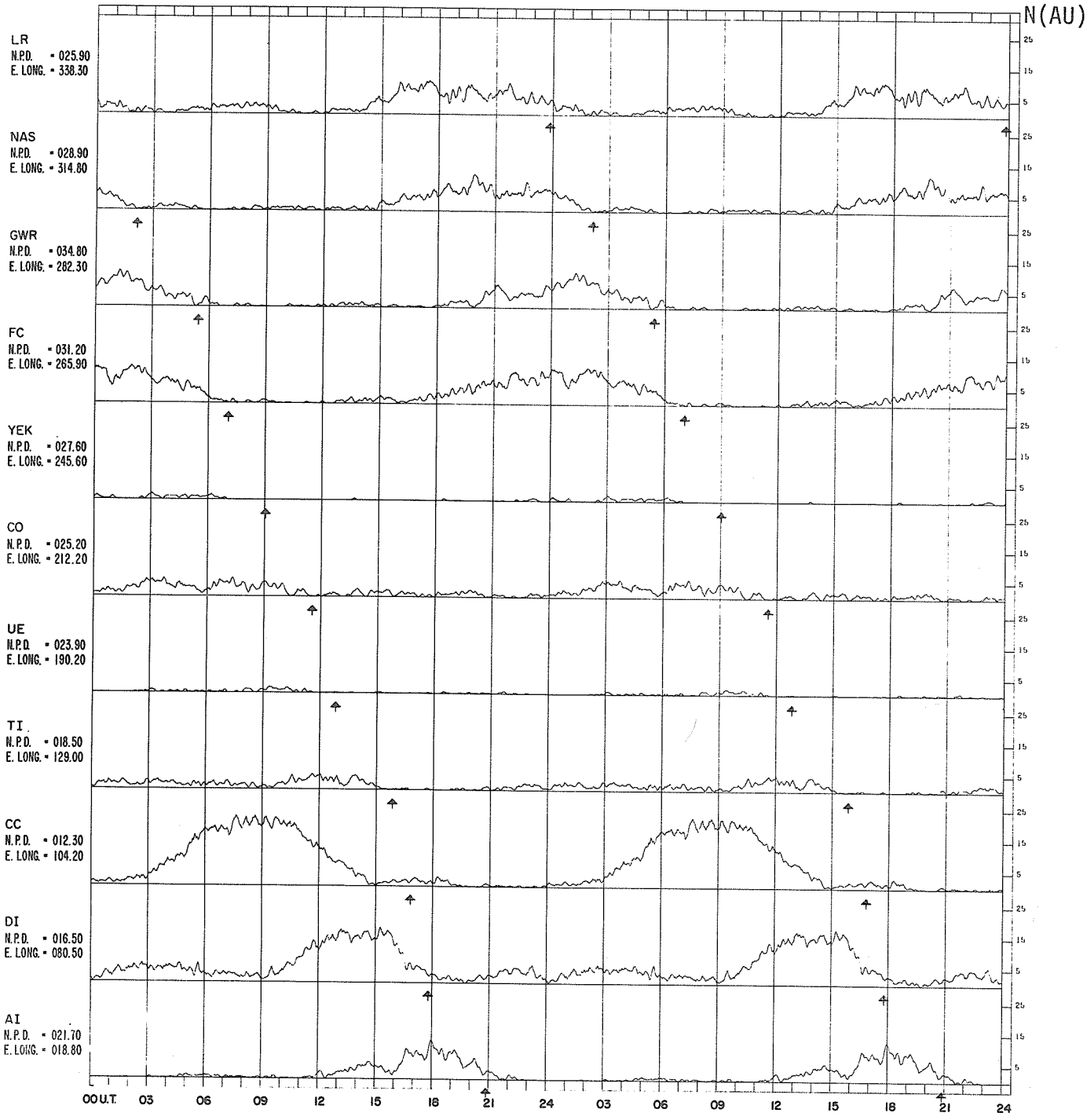



Fig. 3. Frequency of 1-min AU provision by station for January 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

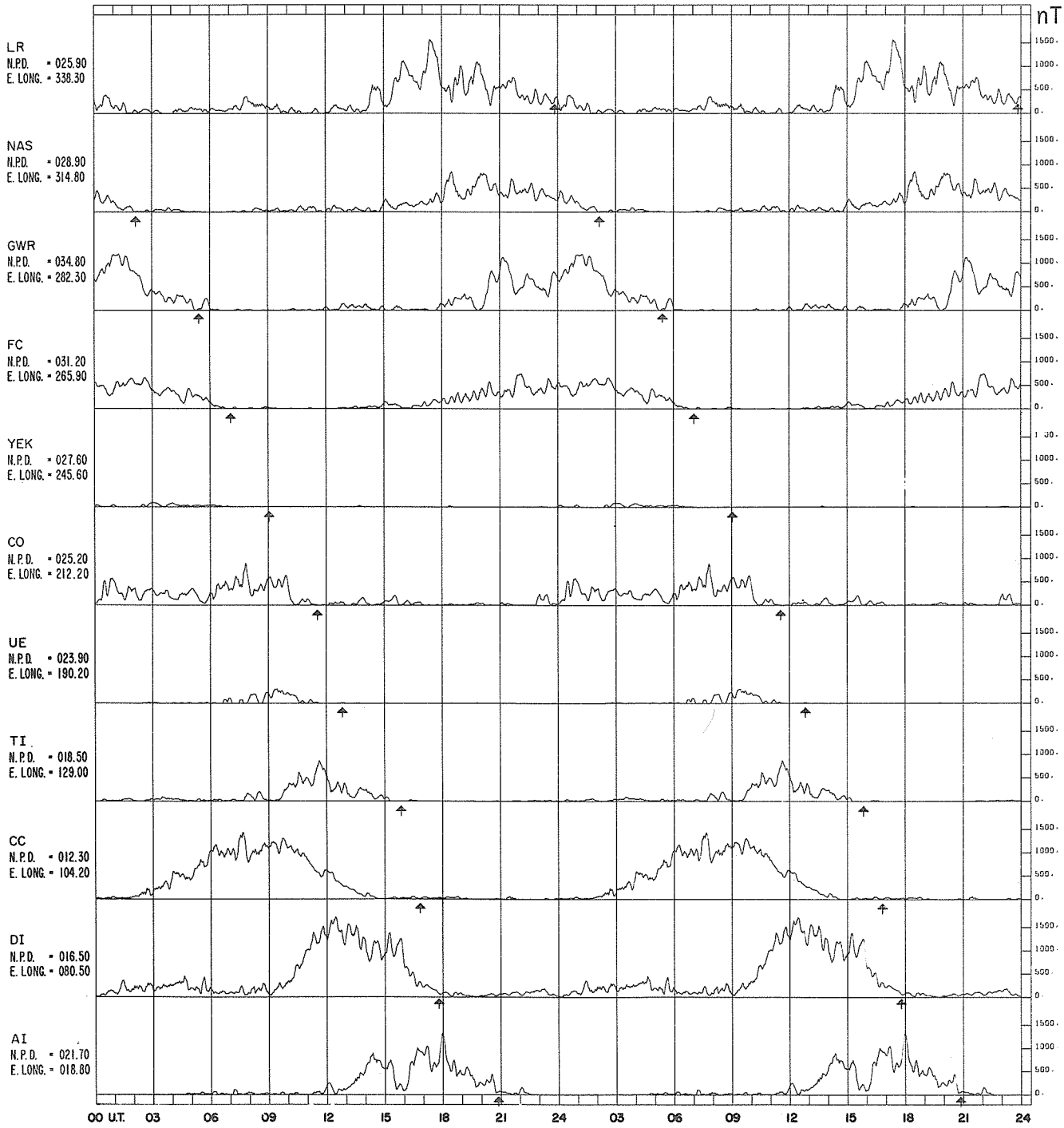



Fig. 4. Total amplitude of most positive H variations for January 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

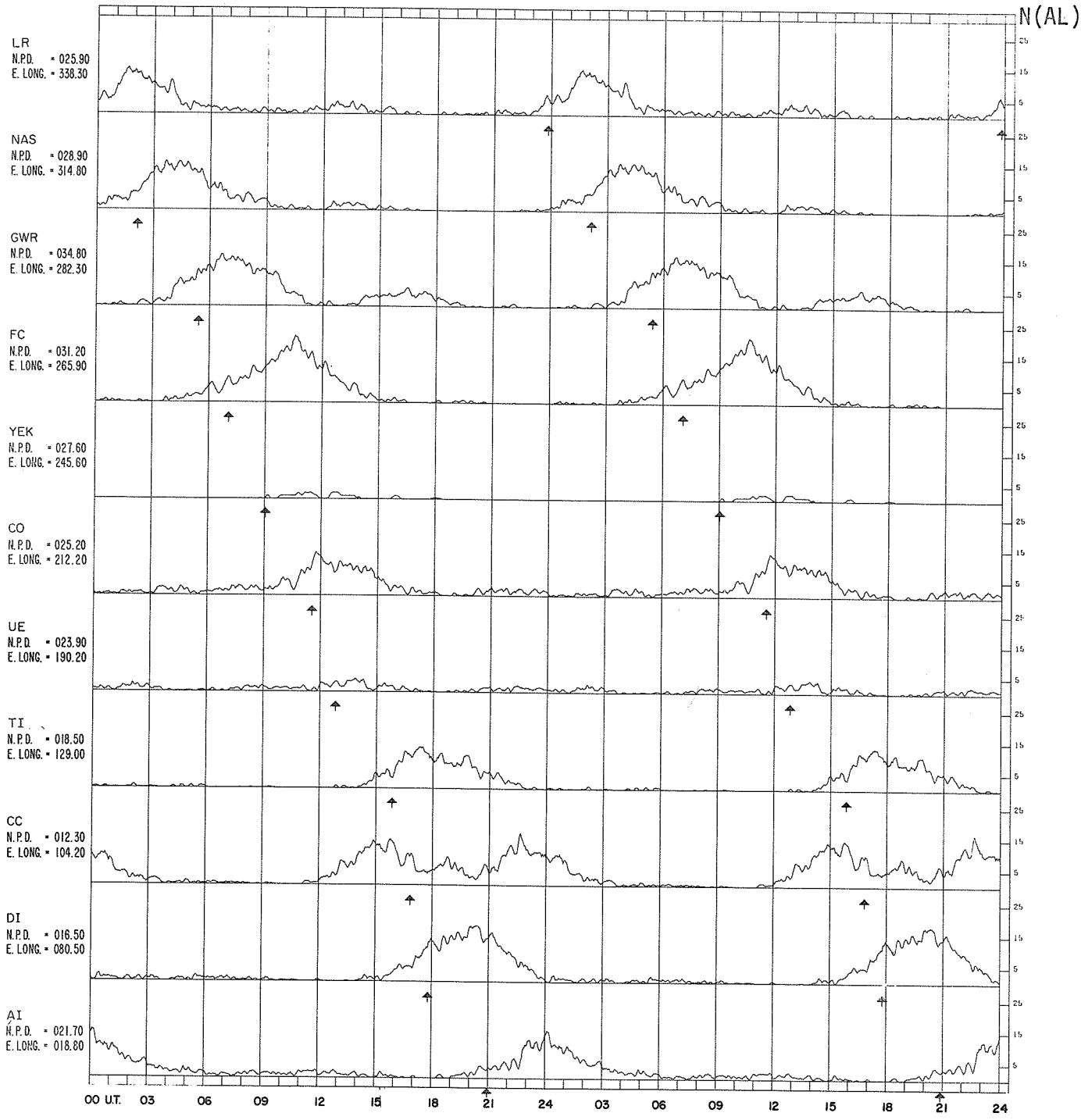



Fig. 5. Frequency of 1-min AL provision by station for January 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

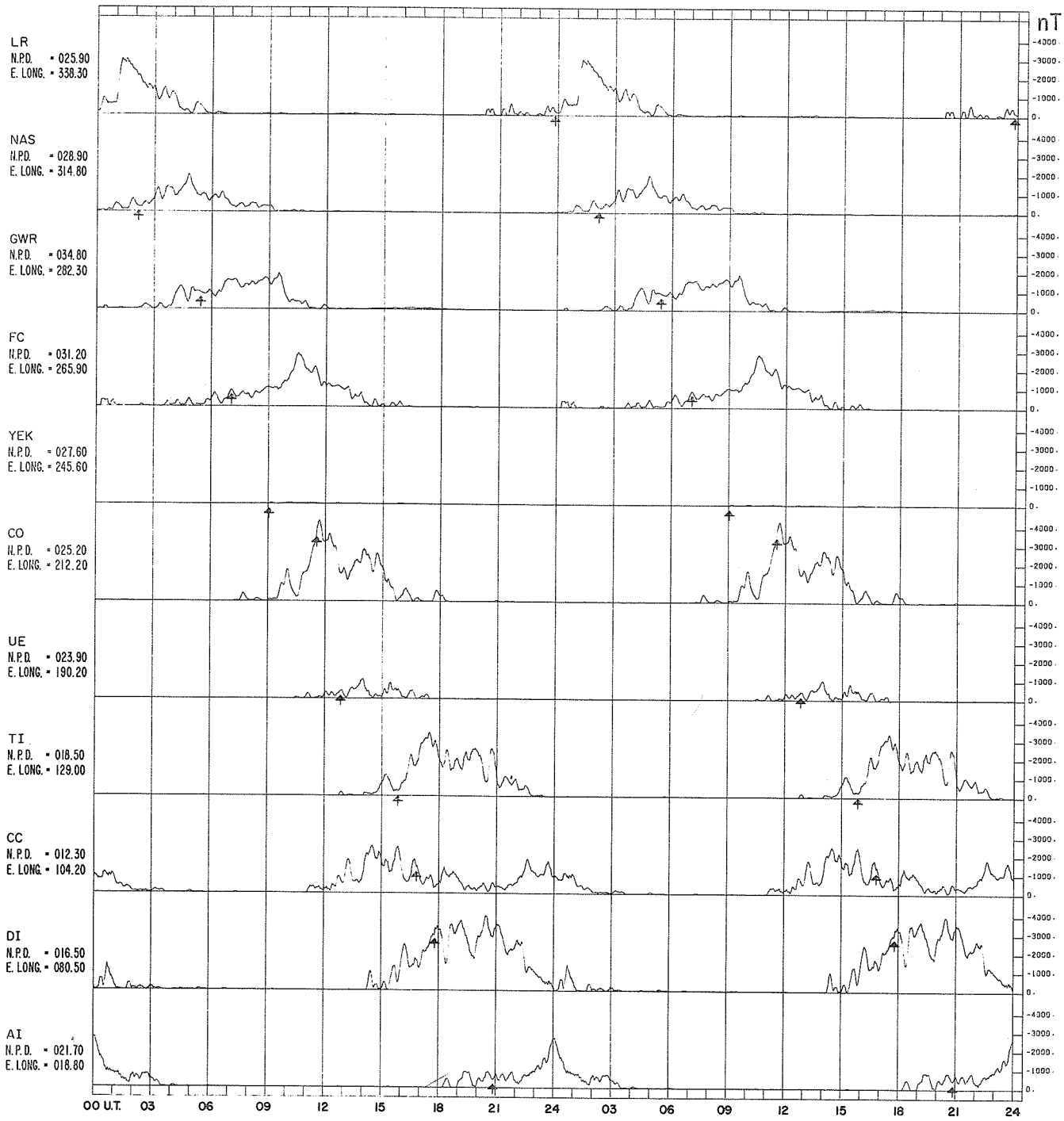



Fig. 6. Total amplitude of most negative H variations for January 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

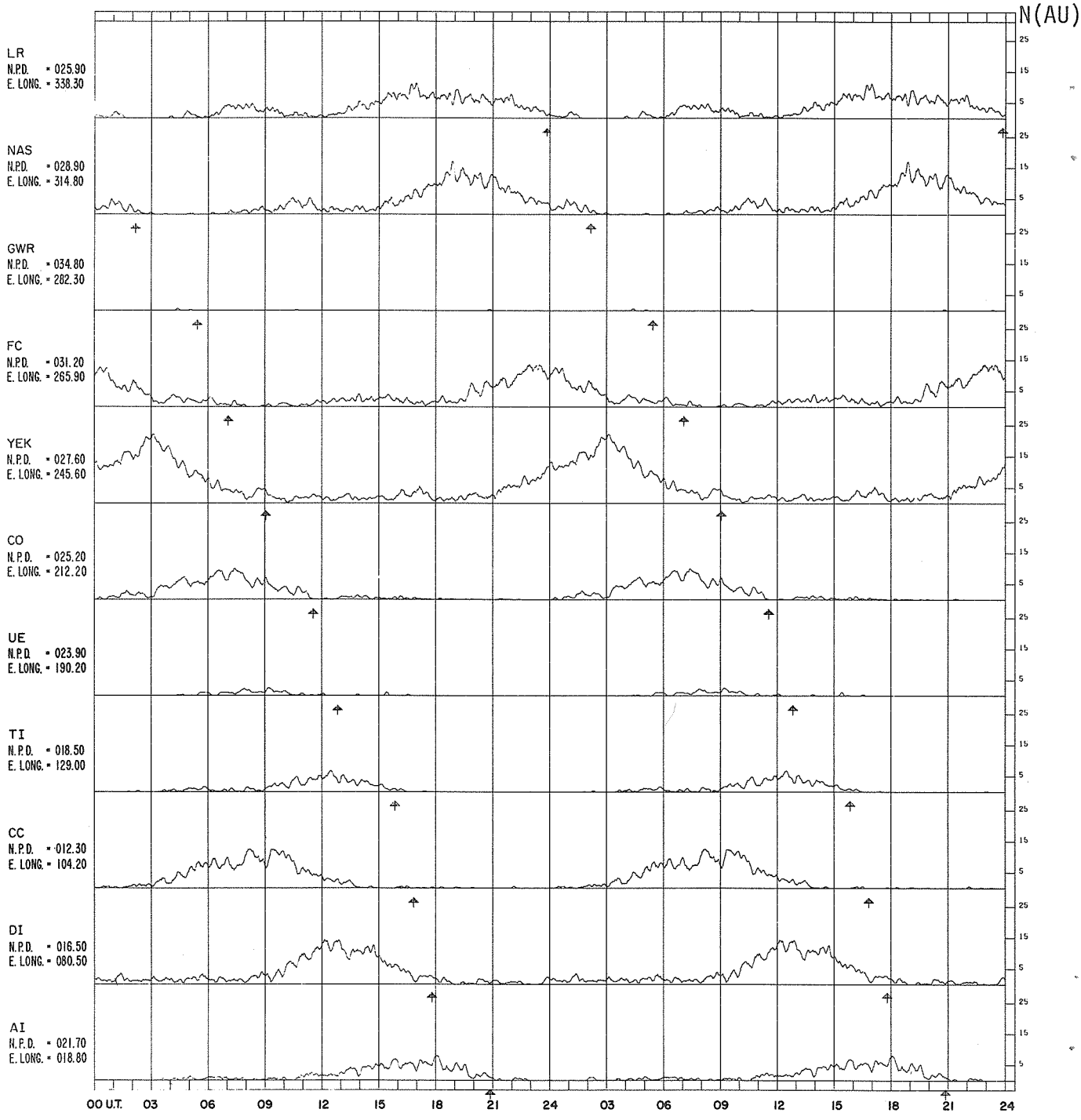



Fig. 7. Frequency of 1-min AU provision by station for February 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

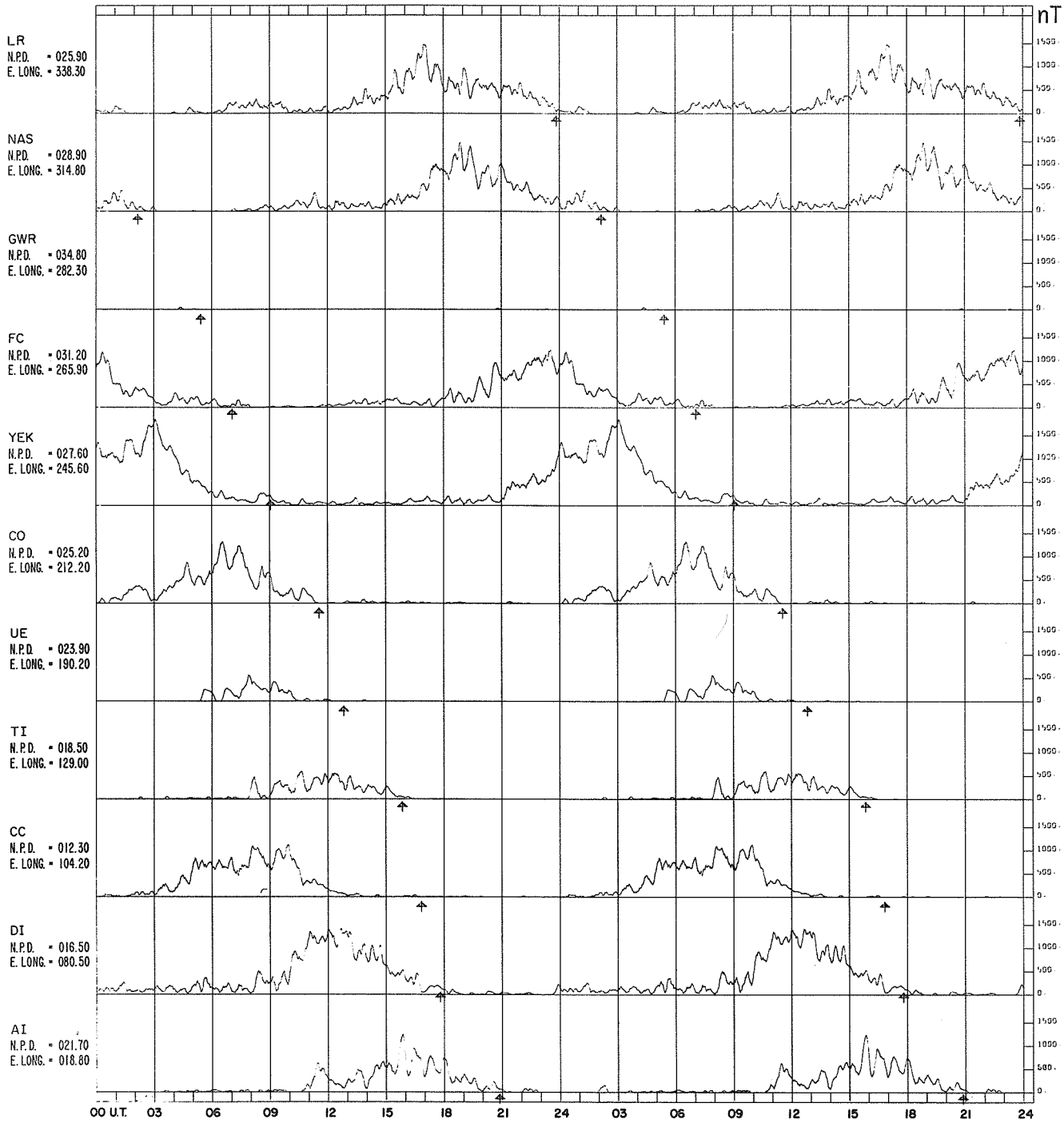



Fig. 8. Total amplitude of most positive H variations for February 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

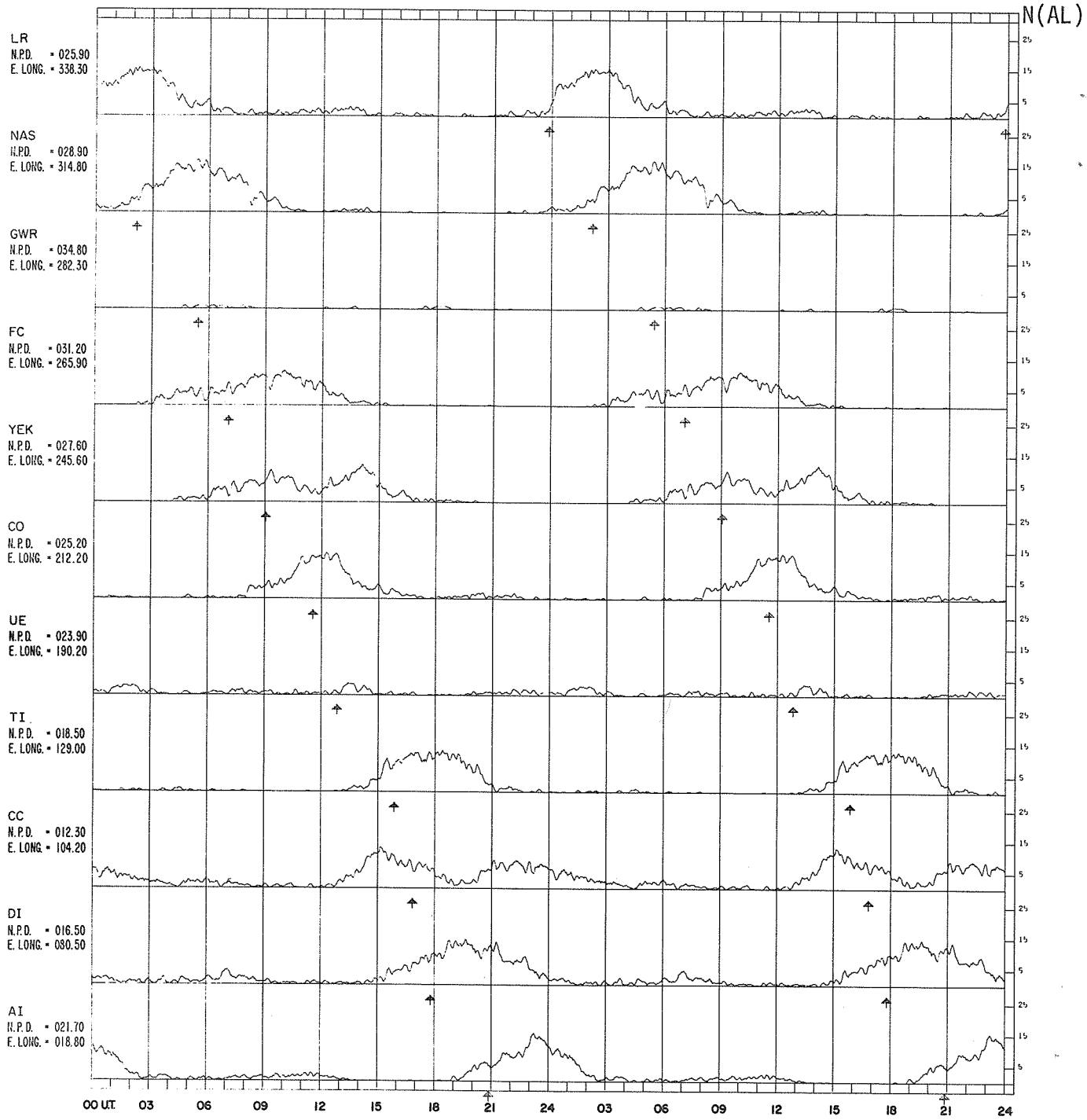



Fig. 9. Frequency of 1-min AL provision by station for February 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

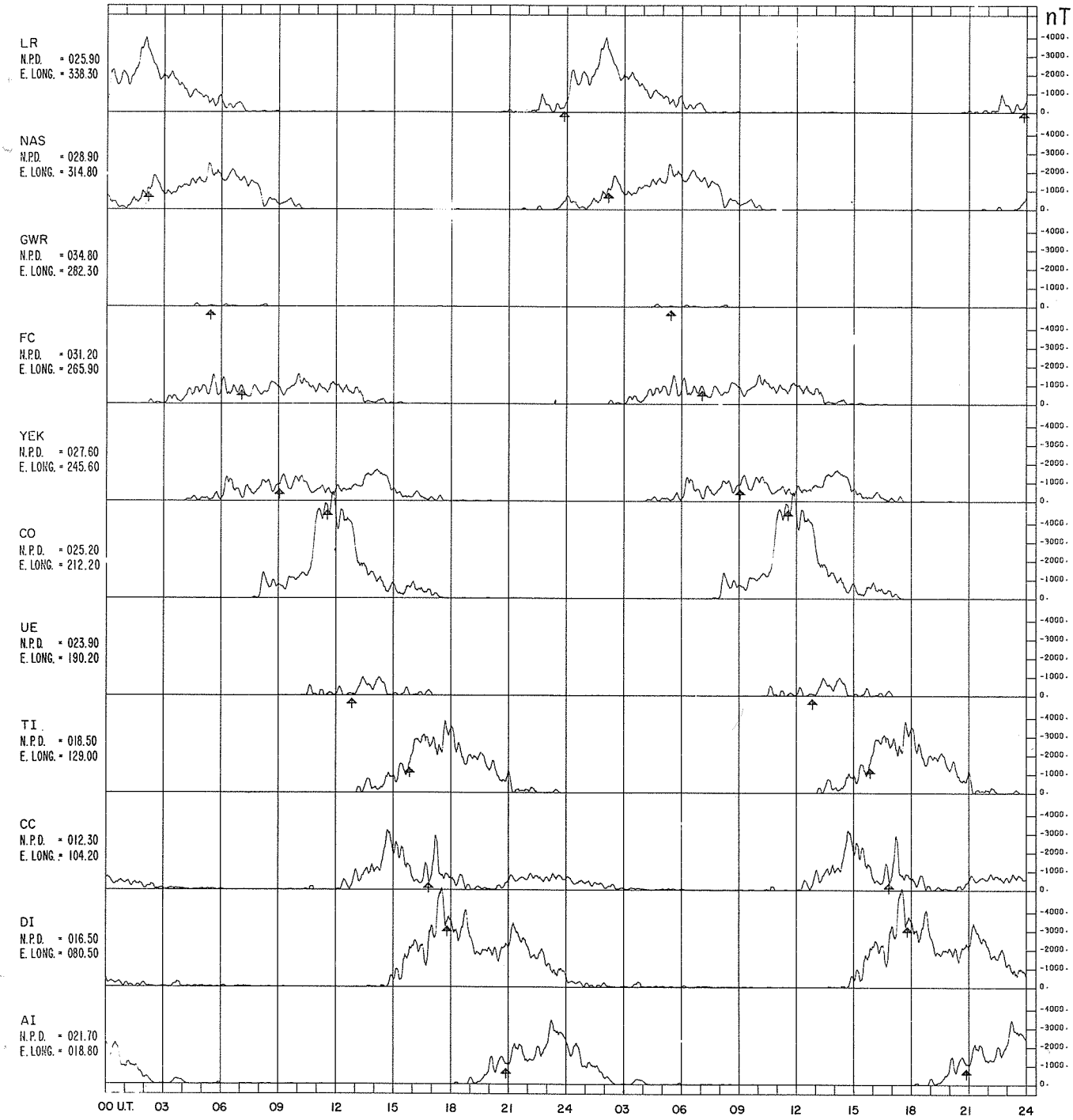



Fig. 10. Total amplitude of most negative H variations for February 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

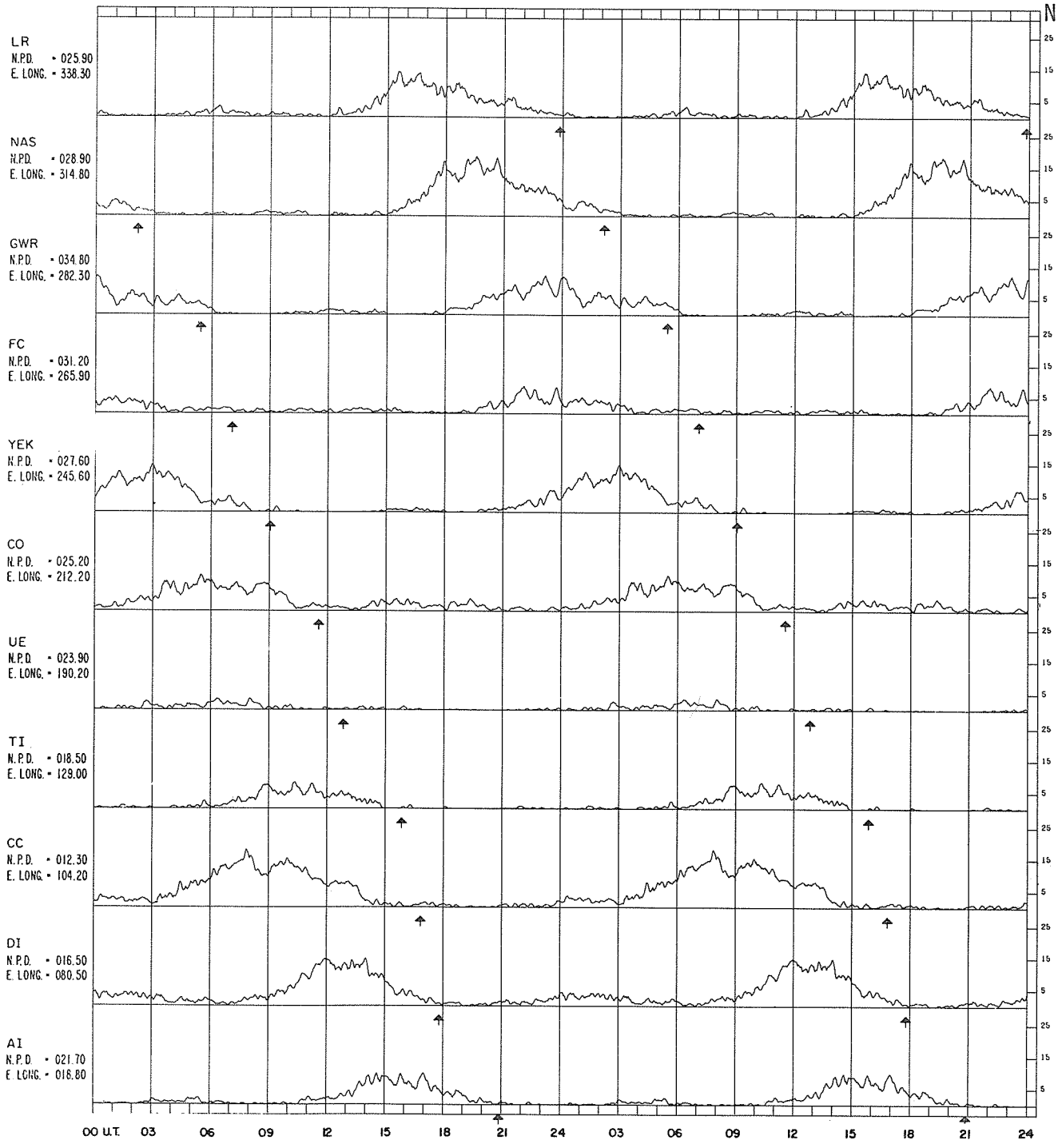



Fig. 11. Frequency of 1-min AU provision by station for March 1975. For each station an arrow marks the UT time of Local Geomagnetic midnight.

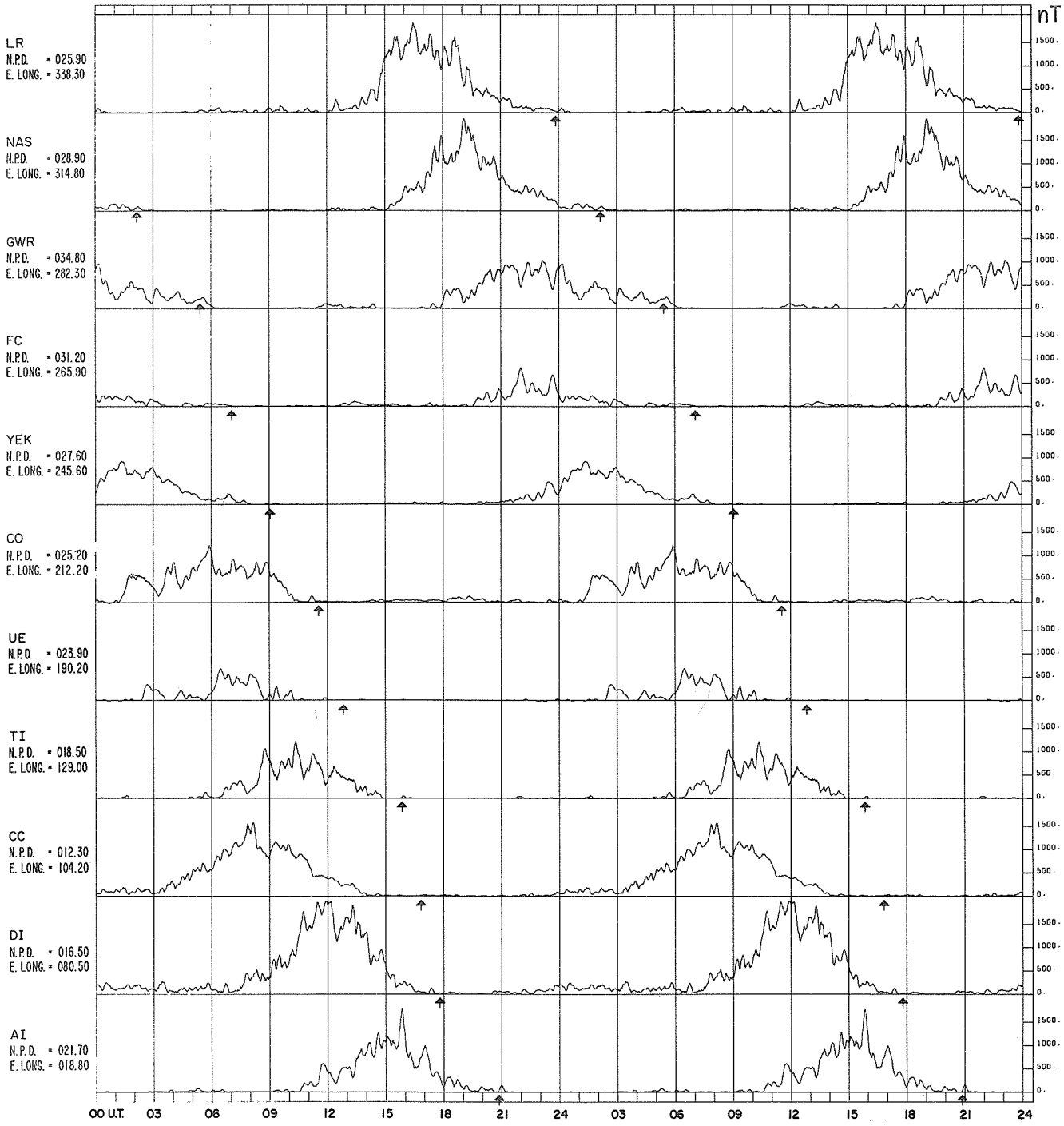



Fig. 12. Total amplitude of most positive H variations for March 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

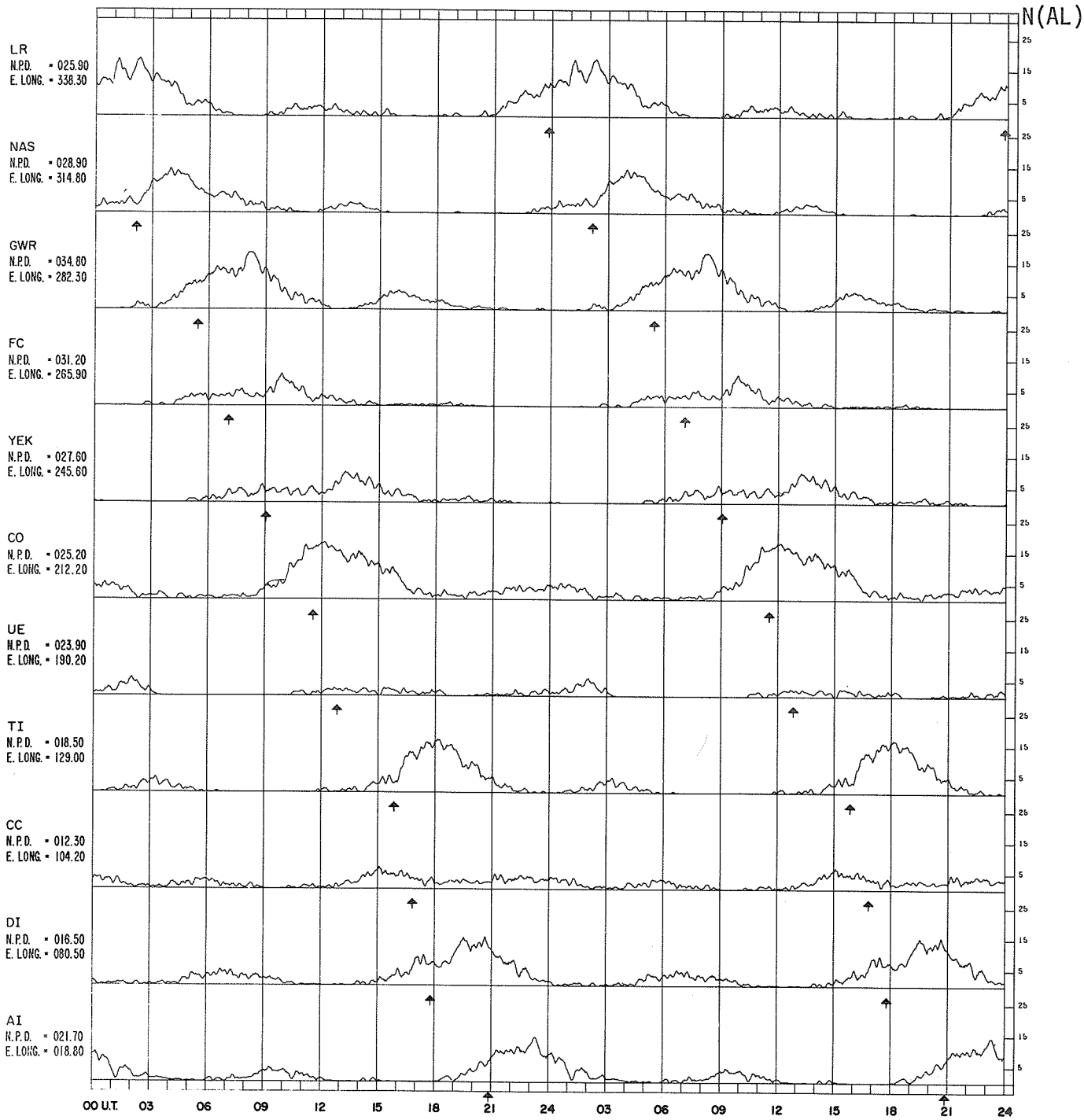



Fig. 13. Frequency of 1-min AL provision by station for March 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

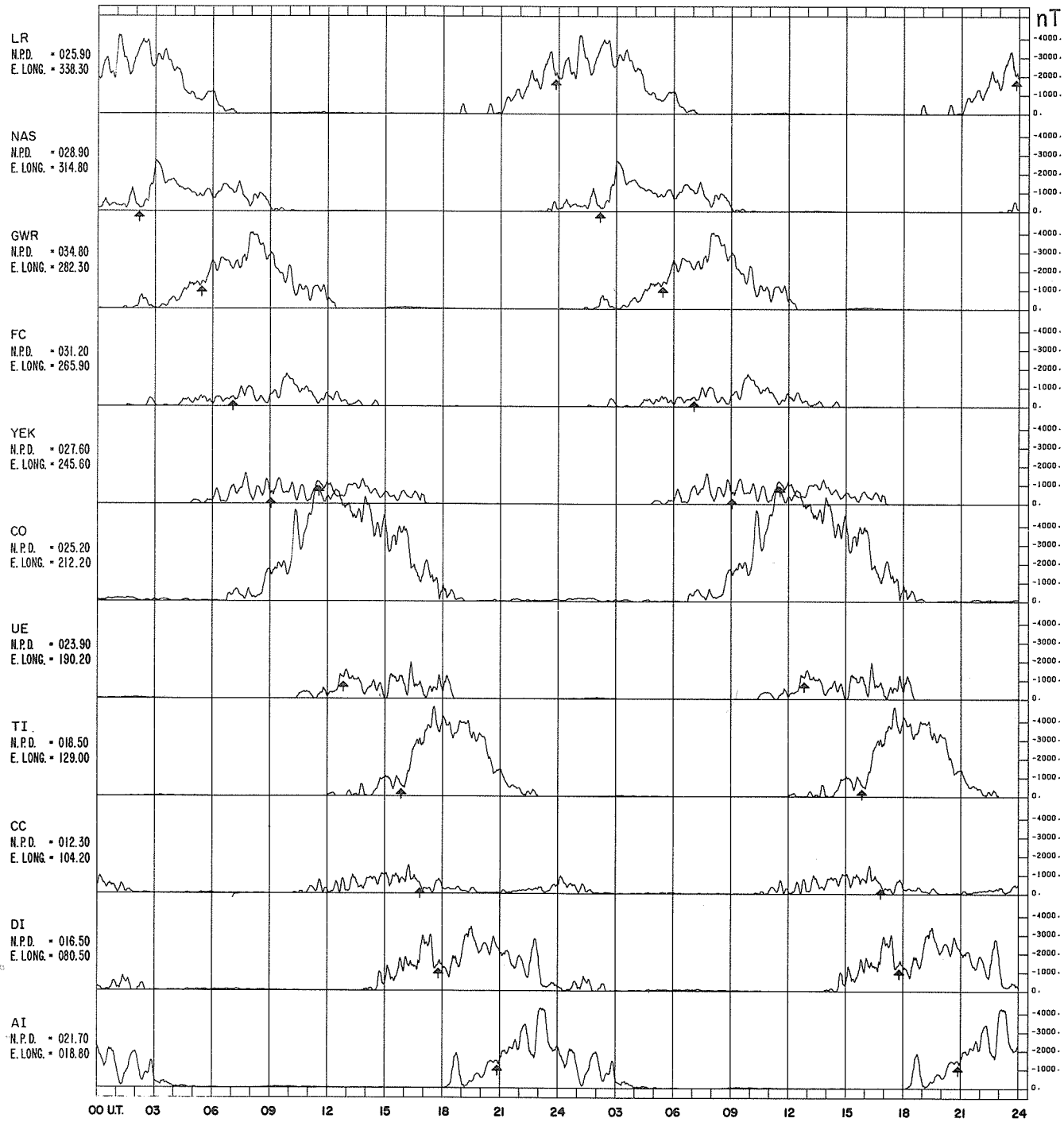



Fig. 14. Total amplitude of most negative H variations for March 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

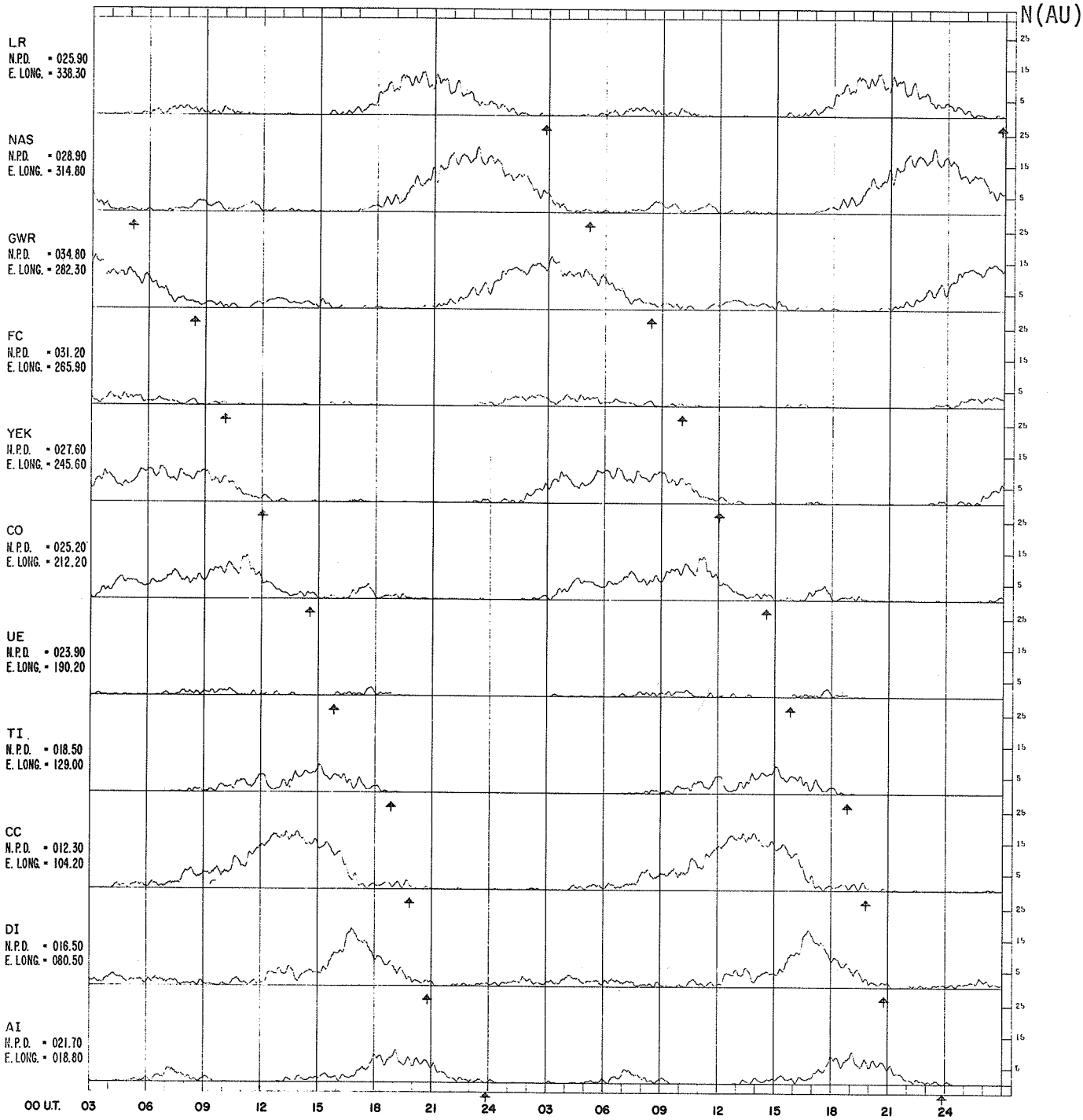



Fig. 15. Frequency of 1-min AU provision by station for April 1975. For each station and arrow marks the UT time of Local Geomagnetic Midnight.

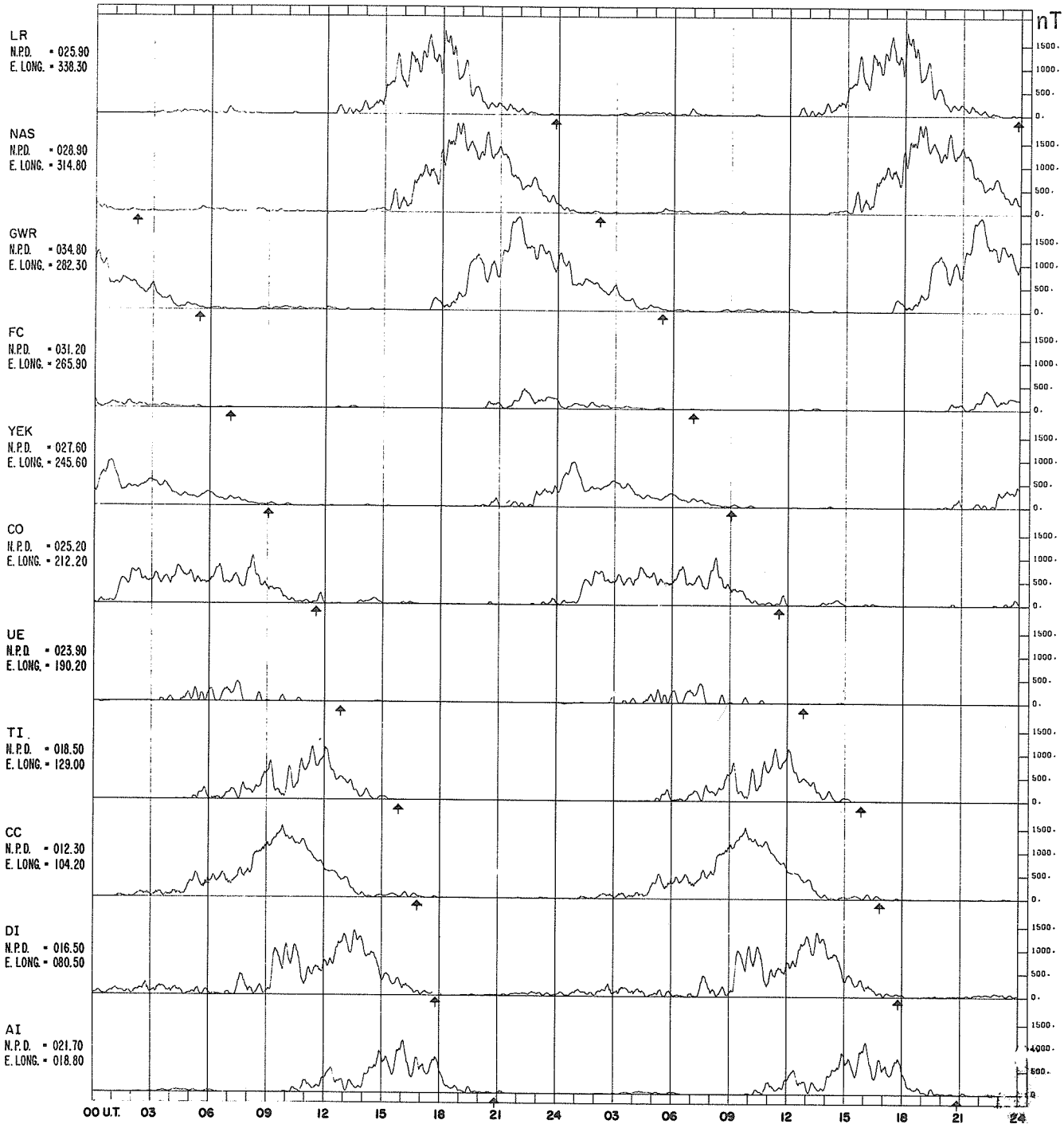



Fig. 16. Total amplitude of most positive H variations for April 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

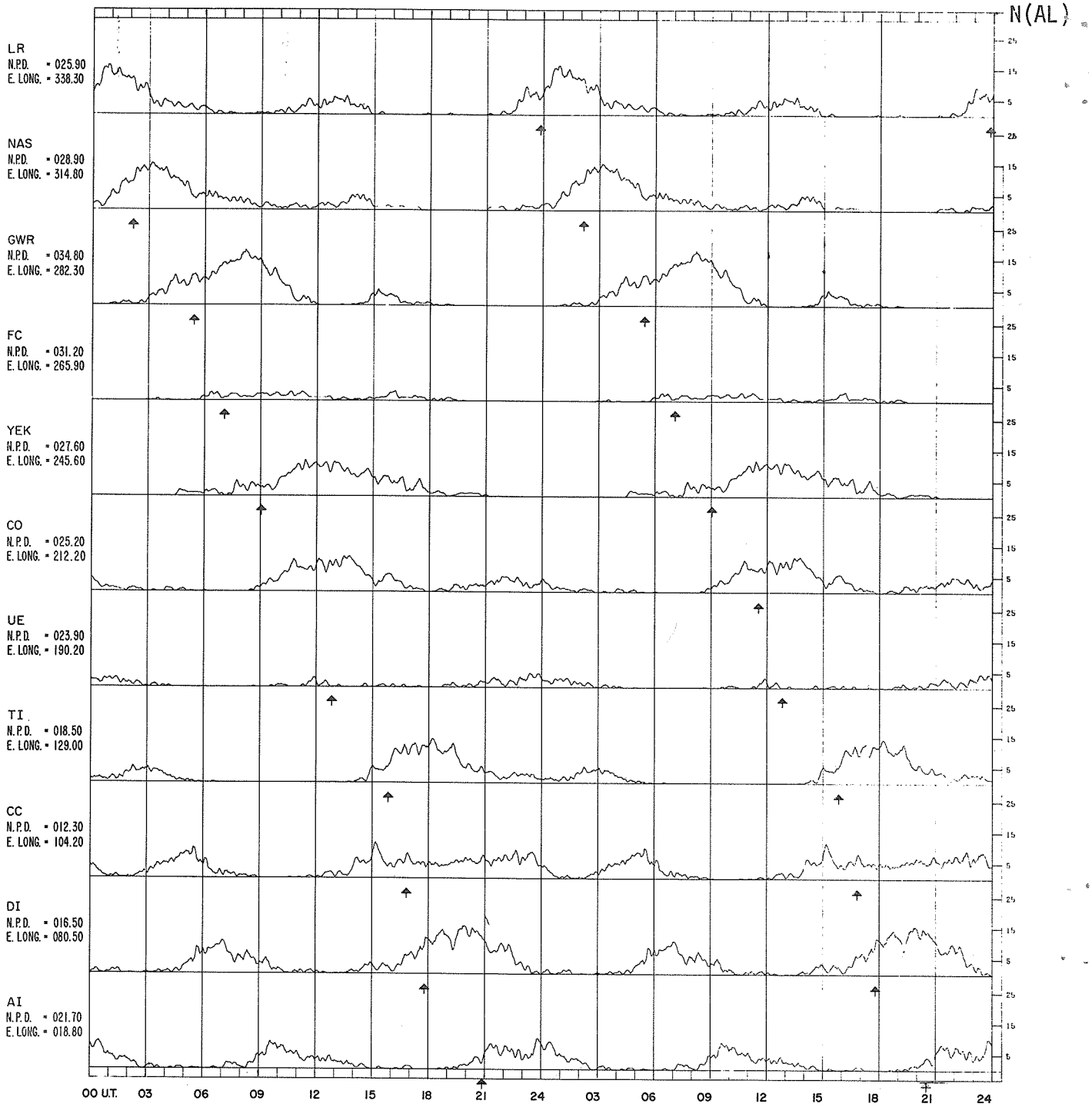



Fig. 17. Frequency of 1-min AL provision by station for April 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

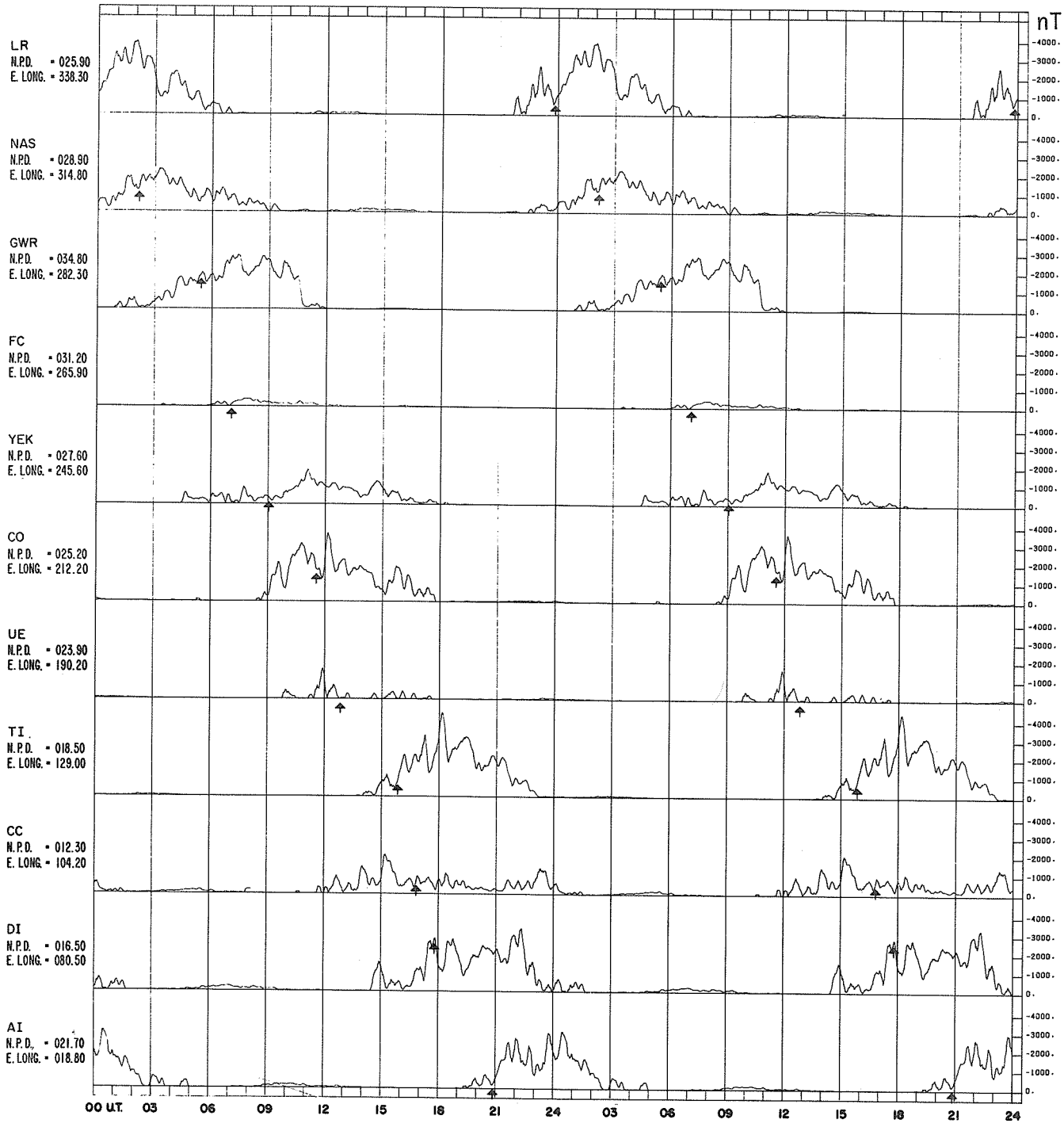



Fig. 18. Total amplitude of most negative H variations for April 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

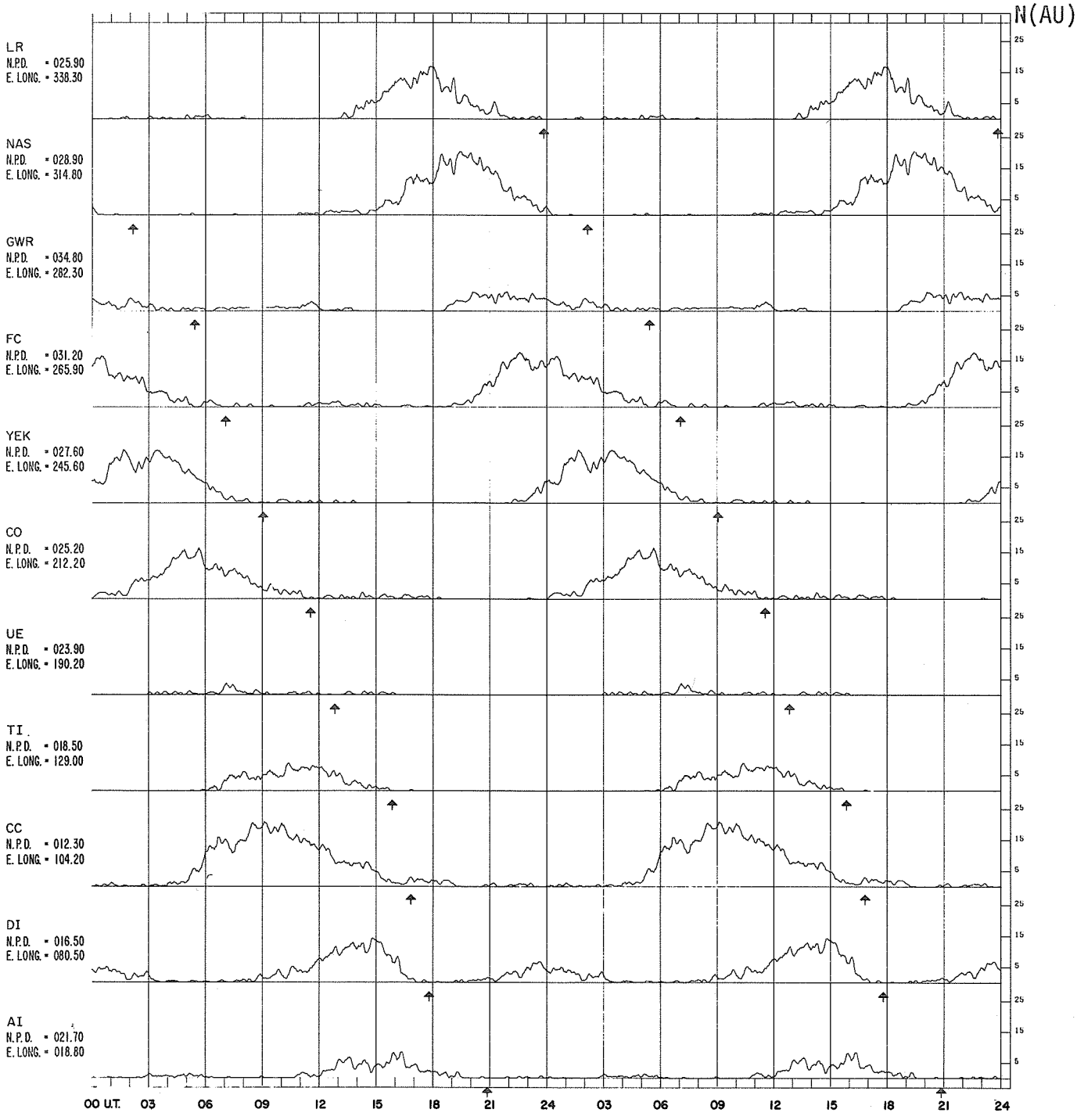



Fig. 19. Frequency of 1-min AU provision by station for May 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

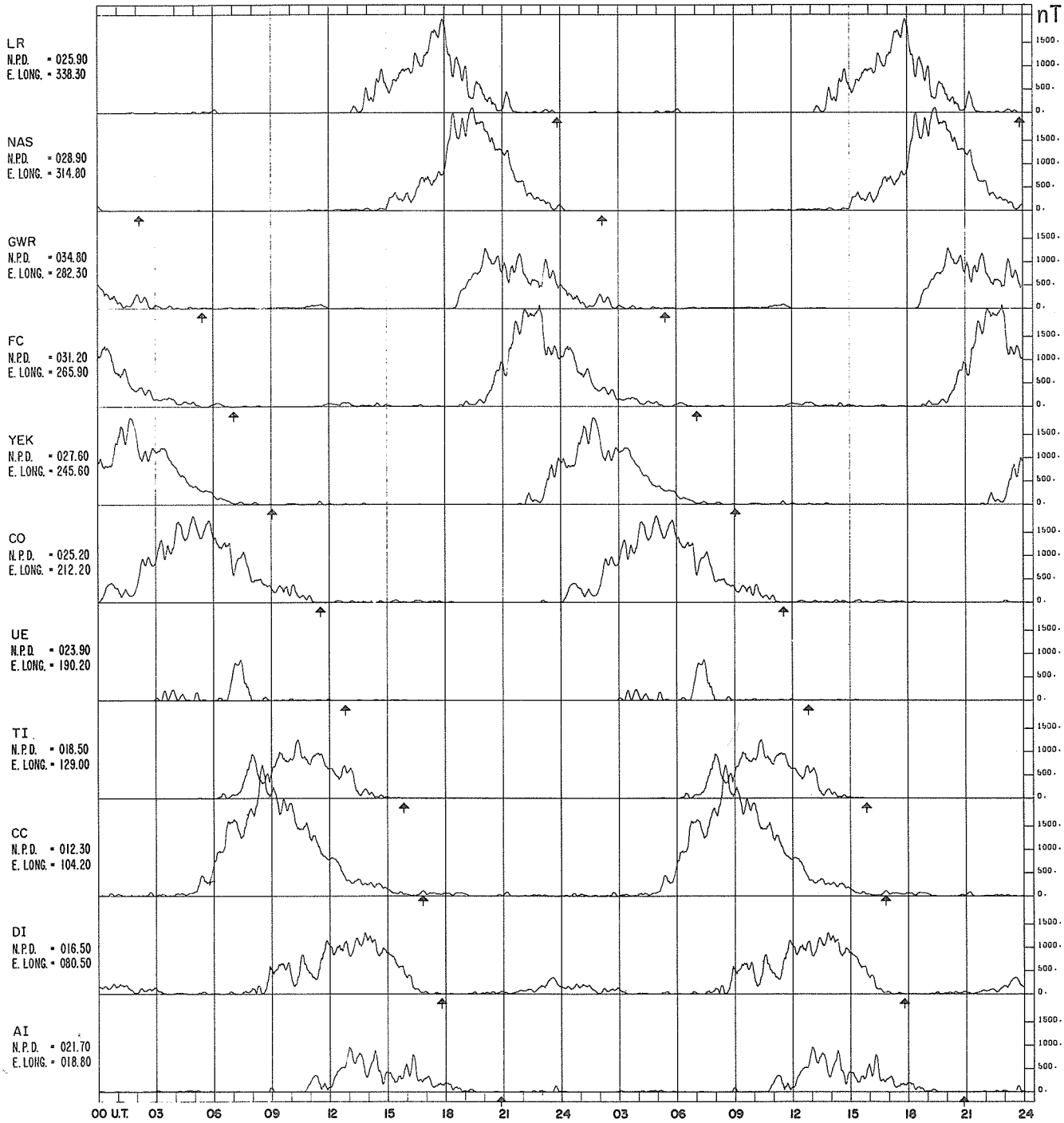



Fig. 20. Total amplitude of most positive H variations for May 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

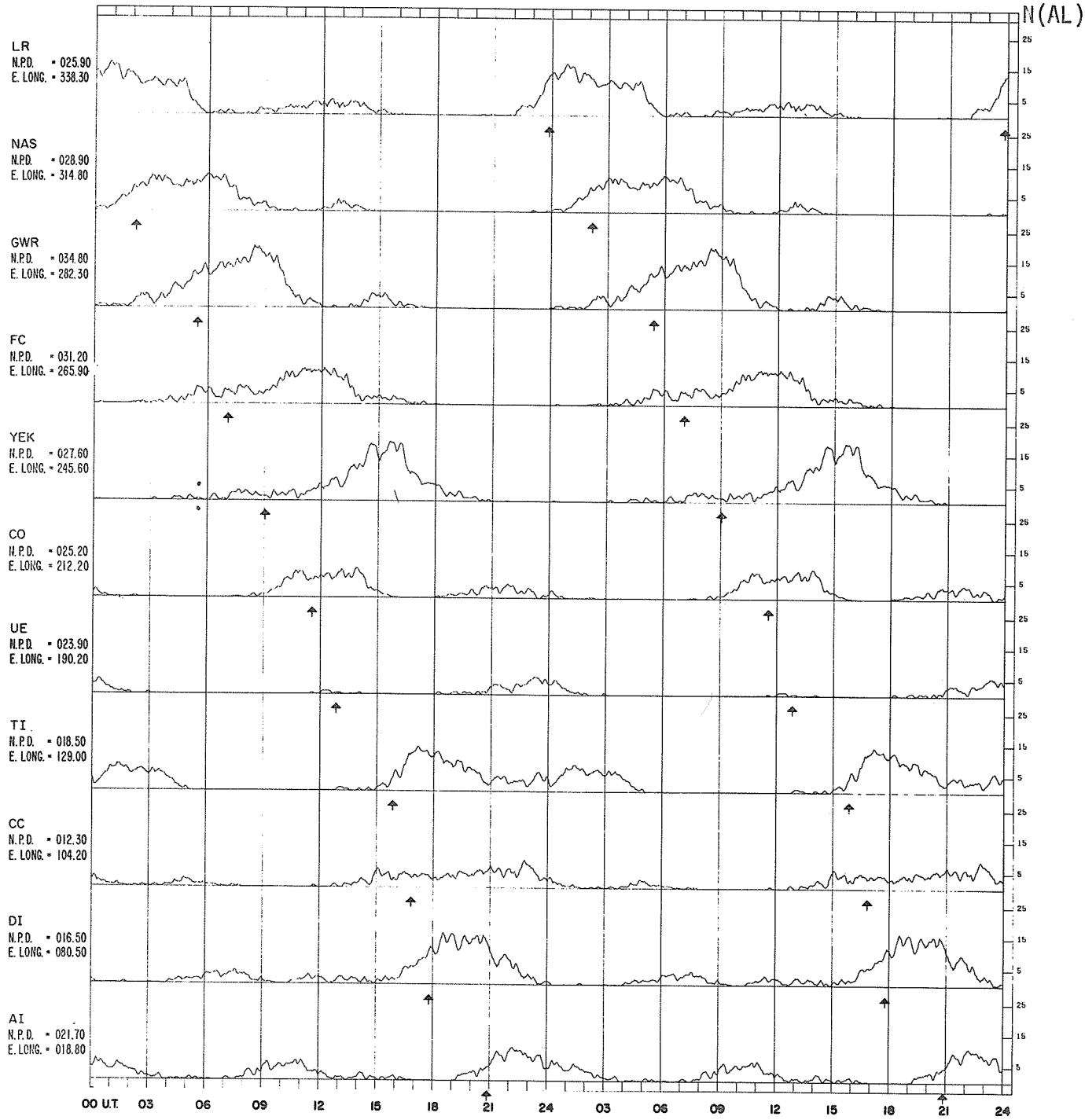



Fig. 21. Frequency of 1-min AL provision by station for May 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

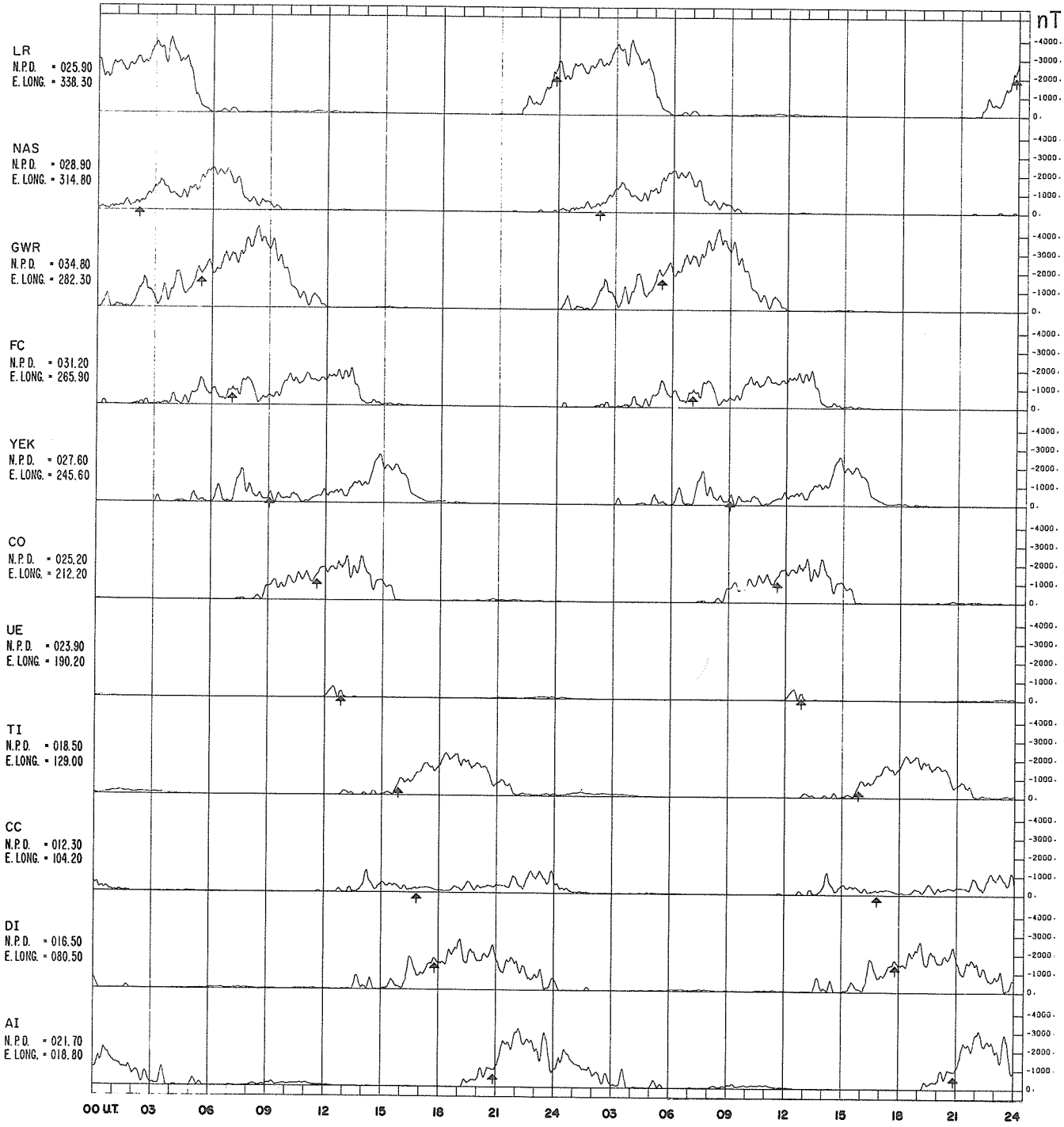



Fig. 22. Total amplitude of most negative H variations for May 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

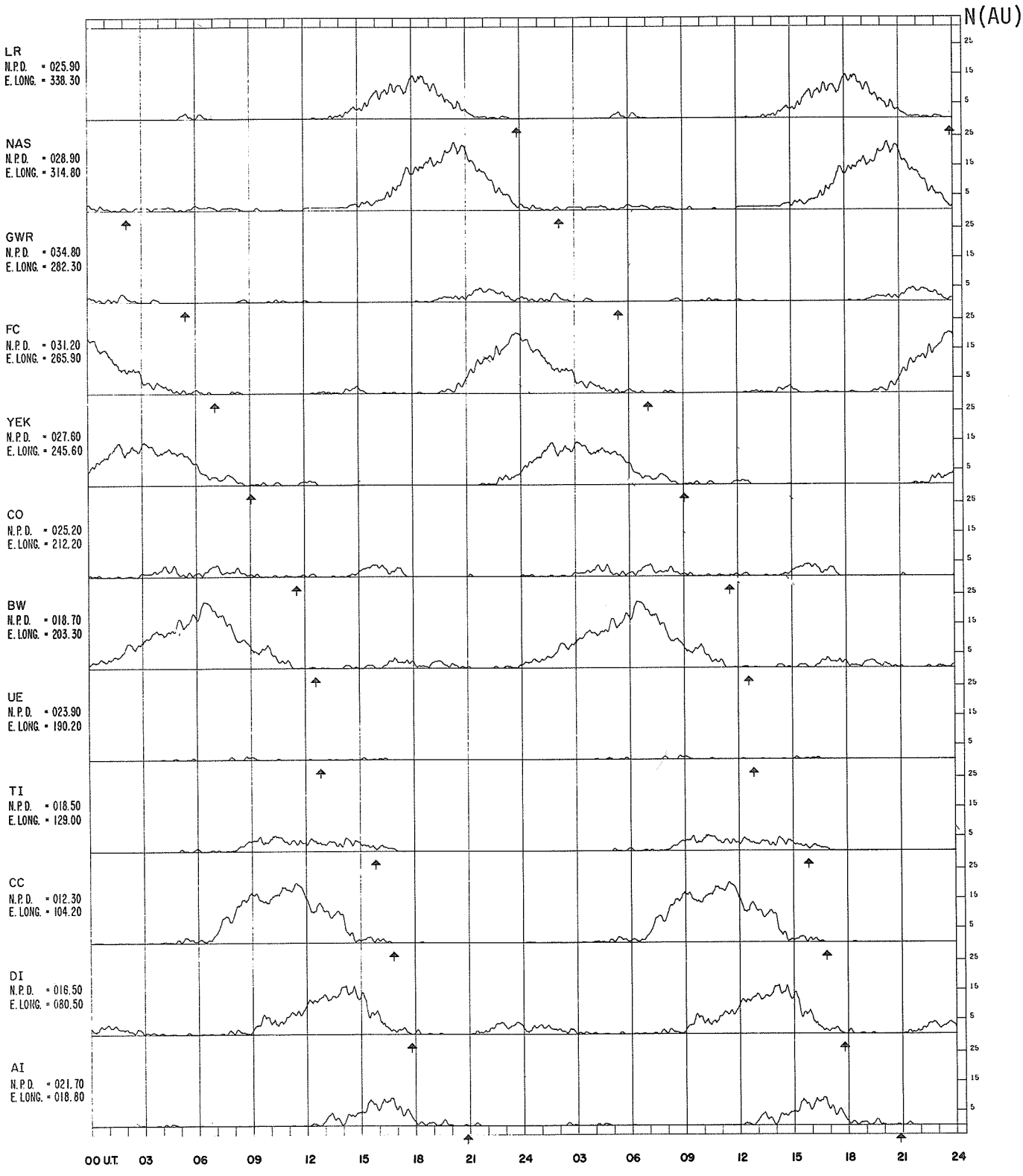



Fig. 23. Frequency of 1-min AU provision by station for June 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

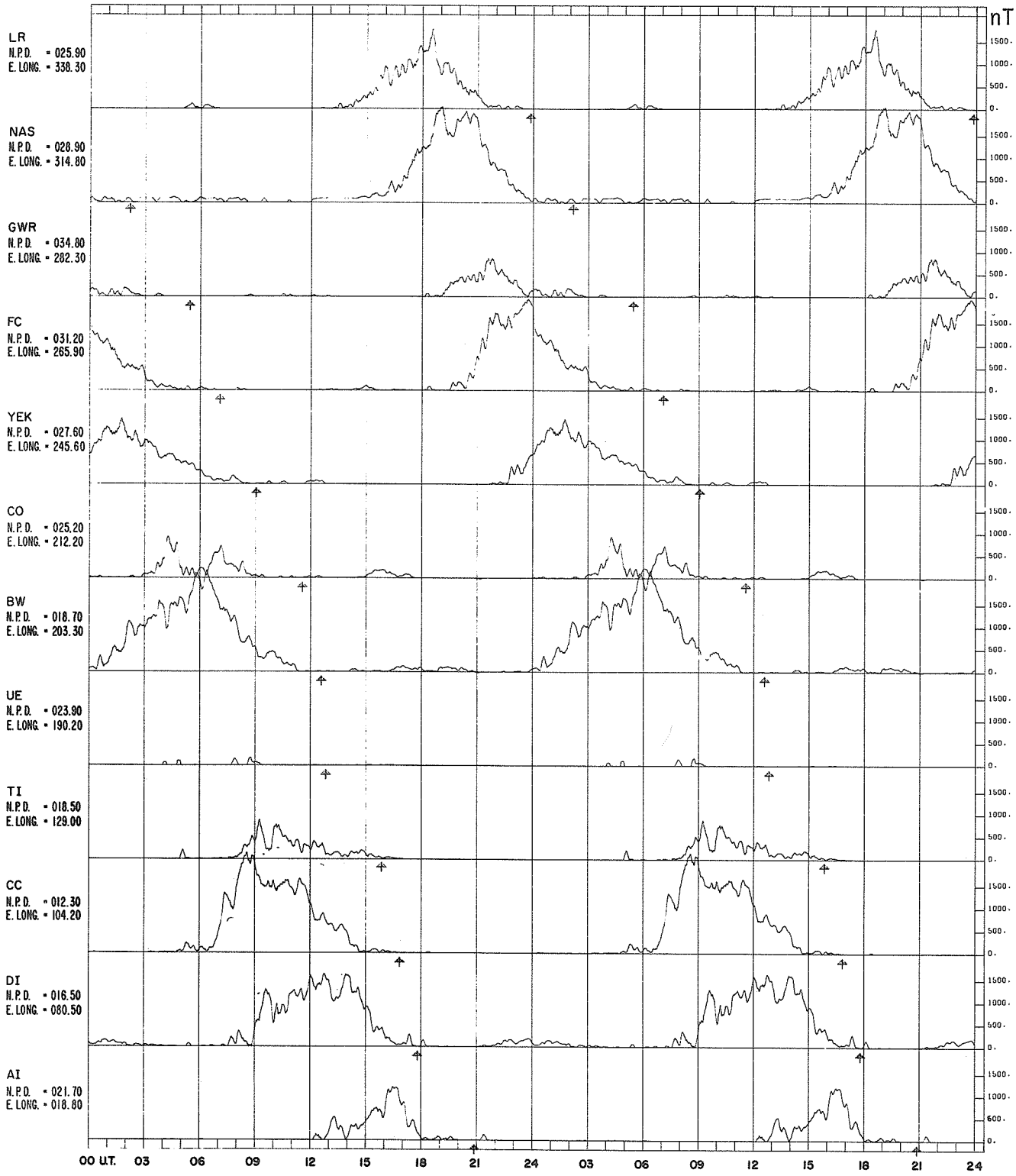



Fig. 24. Total amplitude of most positive H variations for June 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

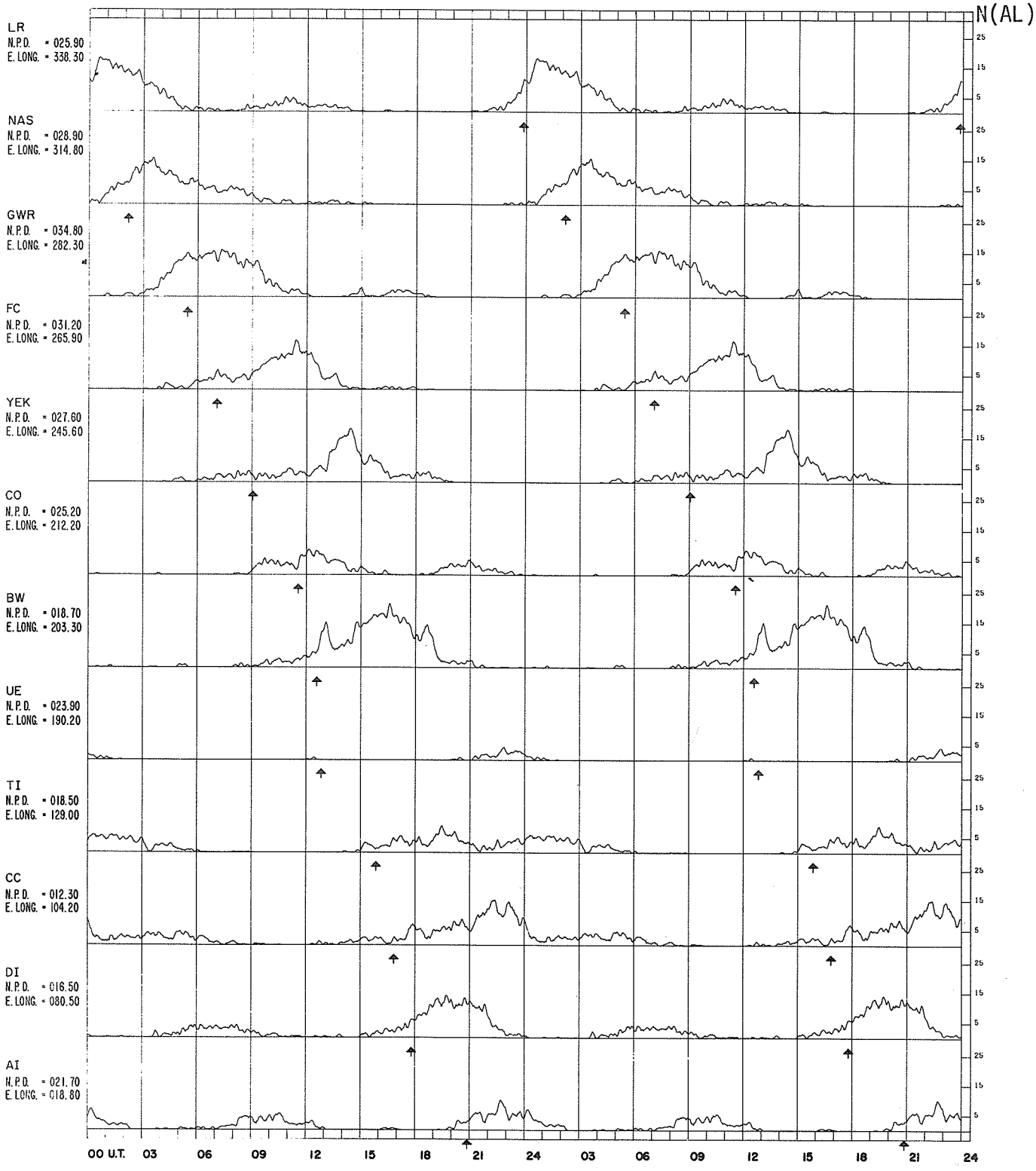



Fig. 25. Frequency of 1-min AL provision by station for June 1975. For each station and arrow marks the UT time of Local Geomagnetic Midnight.

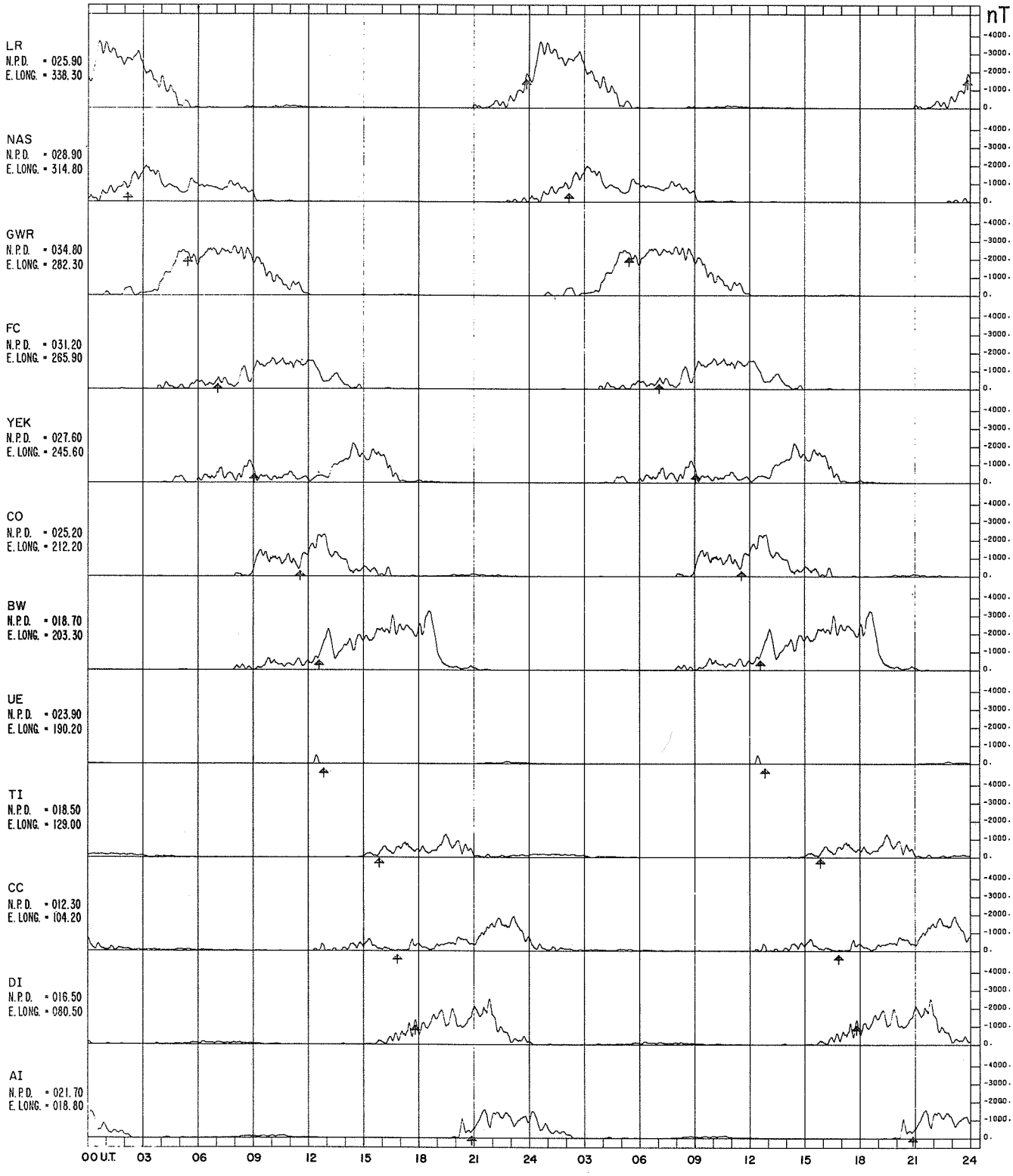



Fig. 26. Total amplitude of most negative H variations for June 1975. For each station an arrow marks the UT time of Local Geomagnetic Midnight.

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