

APPENDIX A

Station History Information and Homogeneity Assessment Details

Column Headings

Line 1:

WMO Number (generally with additional 0)

Station Name

Country

Latitude

Longitude

Height

First year of data (In some cases this may be the first year with precipitation data. Temperature data starts later.)

Last year of data

Quality code

First reliable year of data

Line 2:

Source: Codes used by Bradley et al. (1985)

Subsequent lines:

Notes and homogeneity details.

Additional Information

Missing Codes:

Latitude - 999

Longitude - 1999

Height - 999

Quality Code:

First Digit

1 - Reliable back to first reliable year

2 - Corrected back to first reliable year

4 - Affected by urban warming

5,8 - Non-homogeneous and uncorrectable

6 - Not compared with neighbouring stations

7 - Reliable back to first reliable year, uncorrectable for earlier years

Second Digit

0 - Record 90% complete

1 - Short record of less than 20 years

2 - Record less than 90% complete, generally containing many years of missing data

3 - Antique record with data almost entirely from the nineteenth century or earlier

| | | | | | | | | | | | | | | | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-----|-----------|----|------|--------------------|--------|-------|-------|-----------|-----------|------|------|
| 010010: JAN MAYEN | NORWAY | 71.0N | 8.4W | 9m | 1921-1980 | 10 | 1921 | 010490: ALTA | NORWAY | 70.0N | 23.2E | 1871-1939 | 10 | 1871 | |
| Sources: A1 | Notes: A1: 1921-1950; Koppen formula, $m = n - k(n - \min)$, where n is the mean of 3 daily observations, k is a seasonally dependant factor & \min is the mean min temp. 1921-1948; $n = 1/3(08 + 14 + 19)$ 15E meridian time. 1949-1950; $n = 1/3(07 + 14 + 19)$ 15E meridian time. 1921-Aug 1940; site unknown. | | | | | | | | | | | | | | |
| | May-July 1941; 71 00'N 8 25'W, alt = 15m. July-Sept 1941; 71 00'N 8 21'W, alt = 28m. Sept 1941-Sept 1943; 71 00'N 8 26'W, alt = 28m. Sept 1943-Aug 1946; 21m. Aug 1946-Sept 1949; 71 01'N 8 26'W, alt = 5m. Sept 1949-1950; 71 01'N 8 25'W, alt = 39m. 1951-1960; $n = 1/3(06 + 12 + 18)$ GMT. 71 01'N 8 28'W, alt = 39m. 1961-1970; 70 57'N 8 40'W, alt = 9m. Reliability: compared with 010250 & 010280 for the years 1921-1980 & 1951-1980. | | | | | | | | | | | | | | |
| 010050: ISFJORD RADIO | NORWAY | 78.0N | 14.2E | 9m | 1912-1979 | 10 | 1912 | 010530: HAMMERFEST | NORWAY | 70.7N | 23.7E | 1848-1863 | 63 | | |
| Sources: A1 | Notes: A1: 1931-1937; means of 3 daily observations taken at 08, 14 & 19h Central European Time, calculated by the Koppen Formula, $m = n - k(n - \min)$, where n is the mean of the daily observations, k is a seasonally dependant factor & \min is the mean min temp. 1931-Aug 1934; Svalbard Radio, 78 13'N 15 38'E, alt = 53m. Sept 1934-Dec 1937; Isfjord Radio, 78 04'N 13 38'E, alt = 11m. 1938-1941; alt = 8m. 1946-1950; 78 04'N 13 38'E, alt = 9m. 1948-1950; $n = 1/3(07 + 14 + 19)$ 15E meridian time. 1951-June 1958; 78 04'N 13 38'E, alt = 7m. Station moved 60m NW in June 1958 to an alt of 6m. 1951-1960; $n = 1/3(06 + 12 + 18)$ GMT. Reliability: compared with 010280 & 010250 for the years 1951-1979 & 1912-1979. | | | | | | | | | | | | | | |
| 010100: ANDENES | NORWAY | 69.3N | 16.2E | | 1868-1955 | 10 | 1868 | 010620: HOPEN | NORWAY | 76.5N | 25.1E | 1947-1959 | 10 | 1947 | |
| Sources: A136 | Notes: A136: Alt = 5m. Instruments may have changed Aug 1924. No other details available. Reliability: compared with 010250 for the years 1868-1955. | | | | | | | | | | | | | | |
| 010250: TROMO/SKATTO | NORWAY | 69.5N | 19.0E | 11m | 1856-1980 | 12 | 1876 | 010650: KARASJOK | NORWAY | 69.5N | 25.5E | 133m | 1876-1970 | 10 | 1876 |
| Sources: A1, A36, A136 | Notes: Station was also known as Skattora. A1: Alt; 1951-1960 = 24m, 1961-1970 = 19m. Means are from Koppen formula, $m = n - k(n - \min)$, where n is the mean of 3 observations made at 06, 12 & 18 GMT, k is a factor appropriate to the station & season & \min is the mean min temp. In 1964 Skattora, 69 42'N 19 00'E, was replaced by Langnes, 69 41'N 18 55'E, alt = 10m. A36: "True" means. No other details available. A136: 1867-1926; Gyllenborg, 69 39'N 18 58'E, alt = 45m. 1920-1955; Geofysisk Institutt, 69 39'N 18 57'E, alt = 102m. Reliability: compared with 010650 & 010980 for the years 1876-1970 & 1856-1980. Data gap 1881-1920. | | | | | | | | | | | | | | |
| 010280: BJORNØYA | NORWAY | 74.5N | 19.0E | 14m | 1951-1980 | 10 | 1951 | 010920: HAKKAUR | NORWAY | 70.7N | 30.1E | 1951-1960 | 61 | | |
| Sources: A1 | Notes: A1: 1951-1970; Koppen formula, $m = n - k(n - \min)$, where $n = 1/3(06 + 12 + 18)$ GMT, k is a seasonally dependant factor & \min is the mean min temp. 74 31'N 19 01'E, alt = 15m. 1961-1964; alt = 16m. Reliability: compared with 010010 for the years 1951-1980. | | | | | | | | | | | | | | |
| | Notes: A136: Alt = 14m. Instruments may have changed Nov 1924. No other details available. Reliability: compared with 010250 for the years 1871-1939. | | | | | | | | | | | | | | |
| | Notes: A35: Anomalies from means (no years given). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | |
| | Notes: A136: No details available. Reliability: compared with 010650 for the years 1947-1959. | | | | | | | | | | | | | | |
| | Notes: A136: 69 28'N 25 31'E, alt = 129m. No other details available. Reliability: compared with 010250 & 011520 for the years 1876-1970. Some evidence for a jump in 1955, not large enough to correct given the high variability in the comparisons. | | | | | | | | | | | | | | |
| | Notes: A1: 1901-June 1920; 1/3(07 + 13 + 19) GMT. July 1920-1948; 1/3(07 + 13 + 18) GMT. Jan-June 1949; 1/3(07 + 12 + 18) GMT. July 1949-1970; 1/3(06 + 12 + 18) GMT. Means were calculated from the Koppen formula, $m = n - k(n - \min)$ where n is the mean of the 3 daily observations, k is a factor appropriate to the station & season & \min is the mean min temp. 1931-1940; station made a few small moves, alt varied from 20 to 120m. 1961-1970; alt = 133m. A136: 69 28'N 25 31'E, alt = 129m. No other details available. Reliability: compared with 010250 & 011520 for the years 1876-1970. Some evidence for a jump in 1955, not large enough to correct given the high variability in the comparisons. | | | | | | | | | | | | | | |
| | Notes: A1: 1951-1960; Koppen formula, $m = n - k(n - \min)$, where $n = 1/3(06 + 12 + 18)$ GMT, k is a seasonally dependant factor & \min is the mean min temp. 70 42'N 30 05'E, alt = 11m. Reliability: uncheckable. | | | | | | | | | | | | | | |
| | Notes: A1: 1881-1940; means from Koppen formula, $m = n - k(n - \min)$, where n is mean of 3 daily observations (08, 14 & 20 15E meridian time since 1903), \min is mean of daily min & k is a factor, which differs for each month. 1931-1943; alt = 10m. In 1944 Sletnes, 71 05'N 28 14'E, was replaced by Vardo, 70 22'N 31 06'E, alt = 14m. 1941-1948; Koppen formula, $n = 1/3(08 + 14 + 19)$. 1949-1950, $n = 1/3(07 + 14 + 19)$. 1951-1970; alt = 15m. $n = 1/3(06 + 12 + 18)$ GMT. A36: Alt; 10m. Koppen formula, see A1. 1829-1870; $n = 1/3(08 + 14 + 20)$. 1871-1880; $n = 1/3(08 + 13 + 20)$ Oslo Time. A136: 70 22'N 31 06'E, alt = 13m. Reliability: compared with 010280, 010650 & 011520 for the years 1856-1980, 1876-1970 & 1868-1980. Data gaps 1831-1839 & 1881-1940. | | | | | | | | | | | | | | |

011120: BRONNOYSUND NORWAY 65.6N 12.3E 1870-1955 10 1870
Sources: A115, A136

Notes: A115: No details available. A136: 1869-1951; 65°28'N 12°12'E, alt = 4m.
1948-1955; Kaihaugen, 65°29'N 12°13'E, alt = 13m. Reliability: compared
with 011520 for the years 1870-1955.

011520: BODO NORWAY 67.3N 14.4E 13m 1868-1980 10 1868
Sources: AI

Notes: Alt: 1868-1920; means of (hours not given). Alt; 20m. 1921-1930; true means = $n - k(n - \text{min})$, where min is daily min, n is $1/3(08 + 14 + 20)$ & k is a coefficient whose monthly values are given on p55, vol 79. In 1928 the station moved from $67^{\circ}17'N$ $14^{\circ}24'E$, to $67^{\circ}17'N$ $14^{\circ}26'E$. The alt became 17m. Temp from 1928 on is reduced to the old station as there is a marked difference between data. NB. Observations are all at 15E meridian time. 1941-1948; n = $1/3(08 + 14 + 19)$, 1949-1950 = $1/3(07 + 14 + 19)$ 15S meridian time, 1951-1970 = $1/3(06 + 12 + 18)$ GMT. Bites; 1941-April 1943; $67^{\circ}17'N$ $14^{\circ}26'E$, alt = 17m, April 1943-1947; $67^{\circ}17'N$ $14^{\circ}28'E$, 35m, 1948-June 1949; $67^{\circ}17'N$ $14^{\circ}25'E$, 17m. In Dec 1953 moved 500m S, alt = 10m. 1951-May 1953; alt = 19m, 1961-1970; $67^{\circ}16'N$ $14^{\circ}22'E$, 13m. Reliability: compared with 010250, 010650 & 012420 for the years 1868-1980, 1876-1970 & 1871-1955.

012120: ONA NORWAY 62.9N 6.6E 1868-1955 10 1868
Source: A136

Notes: Al36: No details available. Reliability: compared with 012580 for the years 1868-1955.

012410: ORLAND NORWAY 63.7W 9.6E 7m 1951-1980 10 1951
Sources: Al

Notes: Al: 1951-1970; Koppen formula, $m = n - k(n - \text{min})$, where $n = 1/3(06 + 12 + 18)$ GMT, k is a seasonally dependant correction factor & min is the mean min temp. 1951-1954; Orland II, 1954-1970; Orland III, 2km N of previous site, 63°42'N 9°37'E, alt = 7m. Reliability: compared with 012580, 021270 & 022260 for the years 1951-1980. Some evidence of a small trend in comparison with Trondheim.

012420: ROROS NORWAY 62.6N 11.4E 628m 1871-1955 10 1871
Sources: A136

Notes: A136: Alt; 628m. No other details available. Reliability: compared with 011520 & 012710 for the years 1871-1955. Some slight evidence for a warming trend seen in Trondheim comparison.

012580: TRONDHEIM/TYHOLT NORWAY 63.4N 10.5E 115m 1761-1980 10 1761
Sources: A1 A36 A136

Notes: Alt: Alt; 133m. Means from Koppen formula, $m = \bar{n} - k(\bar{n} - \text{min})$, where \bar{n} is the mean of 3 observations at 06, 12 & 18 GMT, k is a factor appropriate to the station & season & min is the mean min temp. 1951-1967; 63 °25'N 10

27°E, alt = 133m. A36: Temp; "True" means. Press; "True" means, reduced to sea level. A36: 1870-1944; 63 26°N 10 25°E, alt = 58m. 1923-1955; Voll, 63 25°N 10 27°E, alt = 127m. Reliability: compared with 011520 & 023610 for the years 1868-1969 & 1859-1969. Station merged with 012710 & 012587.

013130: HELLISØY FYR NORWAY 60.8N 4.7E 20m 1867-1955 10 1867
Source(s): A136

Notes: A136: Alt; 20m. No other details available. Reliability: compared with 03160 & 014040 for the years 1867-1955. Some evidence of a trend prior to 1900, but very small in scale.

013160: BERGEN/FREDERIKSBORG NORWAY 60.4W 5.3E 44N 1816-1980 10 1816
Sources: A1, A35, A89, A136

Notes: A1: 1816-1950; Temp is reduced to a uniform series by Birkeland, through an intercomparison of stations in Norway with long-term records. From 1861 the following formula was used; $m = \bar{n} - k(\bar{n}-\min)$, where \bar{n} is the mean of 3 daily observations (08, 14 & 20 15° meridian time, since 1903), \min is the mean of the daily minima & k is a factor which differs for each month. The means of preceding years were determined from observations of several different observers & were made to conform as nearly as possible with the means after 1861. 1920-1948; $\bar{n} = 1/3(08 + 14 + 19)$ 15° MT, 1949-1950 = $1/3(07 + 14 + 19)$ 15° MT, 1951-1970 = $1/3(06 + 12 + 18)$ GMT. 1961-1970; 41m. A35: No details available. A09: No details available. A136: 1861-1926, Pleistiftelsen, 60° 23'N 5° 21'E, 20m. 1903-1955, Fredriksberg, 60° 24'N 5° 19'E, 43m. Reliability: compared with 013130 & 014040 for the years 1867-1955.

013840: OSLO/GARDERMOEN NORWAY 60.2N 11.1E 203m 1951-1980 81
Sources: AI

Notes: Al: Koppen formula, $m = n - k(n - \text{min})$, where $n = 1/3(06 + 12 + 18)$ GMT, k is a seasonally dependant correction factor & min is the mean min temp. In July 1951 station moved 970m NW. The thermometer moved 56m & the rain gauge 45m SW in Oct 1952. Jan-Aug 1951; alt = 204m. Aug 1951-Oct 1965; 60 12'N 11 05'E, alt = 202m. Nov 1966-1970; alt = 204m. Instruments moved 20m NW from previous site. Reliability: compared with 014150, 014920 & 024180 for the years 1951-1980. Definite trend, shown in all comparisons.

014040: UT SIRA NORWAY 59.3M 4.9K 55m 1867-1955 10 1867
Sources: A136

Notes: A136: Alt; 55m. No other details available. Reliability: compared with 013130 & 013160 for the years 1967-1955.

014090: FERDER NORWAY 59.0W 10.5E 6m 1885-1955 10 1885
Sources: A126

Notes: A136: Alt; 6m. No other details available. Reliability: compared with O14920 for the years 1955-1955.

014150: STAVANGER/SOLA NORWAY 58.9N 5.6E 8m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; Koppen formula, $m = n - k(n - \text{min})$, where $n = 1/3(06 + 12 + 18)$ GMT, k is a seasonally dependant factor & min is the mean min temp. 58 53'N 5 38'E, alt = 8m. 1961-1970; alt = 9m. Reliability: compared with 014920 & 024180 for the years 1951-1980.

014720: TORUNGEN FYR NORWAY 58.4N 8.8E 12m 1867-1955 10 1867
 Sources: A136

Notes: A136: Alt; 12m. No other details available. Reliability: compared with 014920 for the years 1885-1955.

014920: OSLO/GARDERMOEN NORWAY 59.9N 10.7E 96m 1816-1980 20 1816
 Sources: A1, A35

Notes: A1: 1816-1920; means of 3 or 5 daily obs. + C. In later years 08 14 & 19/20 CET. Alt; 25m. 1920-1970; Koppen formula, $m = n - k(n - \text{min})$, where n is mean of 3 daily obs. & k is factor different for each month. 1920-40; $n = 1/3(08 + 13 + 20)$, 1941-48; 1/3(08 + 14 + 19), 1949-50; 1/3(07 + 14 + 19), alt 158 MT. 1951-70; 1/3(07 + 12 + 18) GMT. Replaced by Blindern, 59 56'N 10 44'E, in 1937, corrections on p32, vol 105. 1941-50; alt; 96m, Jan-Aug 1951; 20m, Aug 1951-1960; 20m. Moves; 970m NW in July 1951, Oct 1952, Nov 1966 moved 20m NW to 204m. A35: No details available. Reliability: compared with 014090, 014720, 014150 & 024180 for the years 1885-1955, 1867-1955, 1951-1980 & 1951-1980. Corrected for site change. Correction Factors: Stations used: 014090 & 014720. Calculation dates: 1890-1940 & 1941-1955. Correction dates: 1816-1940. Factors: -7 -5 -3 -4 -6 -5 -4 -2 -7 -8 -5.

020570: LULEA/KALLAX SWEDEN 65.6N 22.1E 16m 1951-1970 10 1951
 Sources: A1

Notes: A1: 1951-1970; 0.01(pt7 + qt13 + rt19 + stn) where t7, t13 & t19 are the monthly means of 07, 13 & 19h temps & tn is the mean min. s = 0 for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2 & p313, vol 2. 65 33'N 22 08'E, alt = 16m. Reliability: compared with 028970 for the years 1951-1970.

020760: UPPSALA SWEDEN 59.9N 17.6E 15m 1739-1976 12 1855
 Sources: A1, A14, A35, A67, A68

Notes: A1: 1855-1862; 1/4(07 + 14 + 21 + 21). 1863-May 1865; 1/3(08 + 14 + 21), calculated by Ekholm's formula. June 1865-1950; means of 24 hours, 15E meridian time. Alt; 1855-1950 = 24m, 1951-1960 = 15m, 1961-1970 = 14m. 1951-1970; 0.01(pt7 + qt13 + rt19 + stn), where t7, t13 & t19 are the monthly means of the 07, 13 & 19h temps & tn is the monthly mean min temp. s = 0 for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A14: Alt; 24m. No other details available. A35: No details available. A67: Alt; 24m. No other details available. A68: No details available. Reliability: compared with 024640 & 029740 for the years 1756-1970 & 1829-1970. Data gaps 1758-1836 & 1846-1854. 1739-1757 period is difficult to check.

020800: KARESUANDO SWEDEN 68.5N 22.5E 327m 1830-1980 72 1951
 Sources: A1, A35, A67, A68

Notes: A1: Alt; 1879-1950 = 333m, 1951-1970 = 327m. In June 1945 the station was moved, but with no alt change. Means; 0.01(pt7 + qt13 + rt19 + stn), where t7, t13 & t19 are the monthly means of the 07, 13 & 19h temps & tn is the monthly mean min temp. s = 0 for Jan to Mar & for Oct to Dec. Values for the constants p, q, r & s are given on p385, vol 2. Rain gage moved in June 1945, no details given. A35: No details available. A67: Alt = 333m. No other details available. A68: No details available. Reliability: compared with 028360, 021960 & 010250 for the years 1951-1980, 1951-1980 & 1856-1980. Data gap 1839-1950. 1830-1839 difficult to check.

021270: STENSELE SWEDEN 65.1N 17.2E 327m 1860-1980 10 1951
 Sources: A1, A67, A68

Notes: A1: Means of 0.01(pt7 + qt13 + rt19 + stn), where t7, t13 & t19 are the monthly means of the 07, 13 & 19h temps & tn is the monthly mean min temp. s = 0 for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. Alt; 1951-1960 = 330m, 1961-1970 = 327m. A67: Alt; 328m. No other details available. A68: No details available. Reliability: compared with 012580 for the years 1951-1980.

021420: JOCKMOCK SWEDEN 66.6N 19.9E 255m 1860-1910 12 1860
 Sources: A67, A68, A69

Notes: A67: Alt; 255m. No other details available. A68: No details available. A69: No details available. Reliability: compared with 021960 for the years 1860-1907.

021960: HAPARANDA SWEDEN 65.8N 24.2E 7m 1860-1980 10 1860
 Sources: A1, A67, A68

Notes: A1: 1860-1946; Means of 08, 14 & 21h computed by Ekholm's formula (a reference to this is given on p36, vol 79). Time is 15E meridian. Alt; 9m. In Aug 1942 the station moved from 65 50'N 27 09'E to 65 50'N 24 09'E, alt = 7m. 1947-1960; means of 1/3(07 + 13 + 19) 15E meridian time, by Ekholm's formula. 1961-1970; means = 0.01(pt7 + qt13 + rt19 + stn), where t7, t13 & t19 are the monthly means of the 07, 13 & 19h temps, tn is the monthly mean min temp. s = 0 for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A67: Site; 65 50'N 24 09'E. 1860-1885; alt = 9m, 1886-1904 = 3m, 1905-1910 = 2m. A68: No details available. Reliability: compared with 028360 for the years 1908-1980.

022260: OSTERSUND SWEDEN 63.2N 14.7E 1862-1980 10 1951
 Sources: A1, A67, A68

Notes: Station was also known as Frosön. A1: Alt; 1874-1920 = 310m, 1921-1950 = 330m, 1951-1960 = 297m, 1961-1970 = 347m. Means; 0.01(pt7 + qt13 + rt19 + stn), where t7, t13 & t19 are the monthly means of the 07, 13 & 19h temps, tn is the monthly mean min temp. s = 0 for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. Station moved in May 1948. 1951-Jan 1956; alt = 338m, Feb-Mar 1956 = 297m, April 1956-April 1957 = 388m, April 1957-1960 = 297m, 1961-Aug 1965 = 297m, Sept 1965-April

1967 = 320m, April 1967-1970 = 345m. A67: Alt = 308m. No other details available. A68: No details available. Reliability: compared with 012580 for the years 1951-1980.

022860: UMEÅ SWEDEN 63.8N 20.3E 12m 1796-1910 63
Sources: A35, A67, A68

Notes: A35: Alt; 65m. No other details available. A67: Alt; 12m. No other details available. A68: No details available. Reliability: uncheckable.

023610: HÄRNSAND SWEDEN 62.6N 18.0E 8m 1859-1980 10 1859
Sources: A1, A67, A68, A69

Notes: A1: Alt; 8m. Means of $0.01(pt_7 + qt_{13} + rt_{19} + stn)$, where t_7 , t_{13} & t_{19} are the monthly means of the 07, 13 & 19h temps, tn is the monthly mean min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A67: Alt; 15m. No other details available. A68: No details available. A69: No details available. Reliability: compared with 011520 & 012710 for the years 1868-1980 & 1859-1969. Data gap 1908-1950.

024180: KARLSTAD SWEDEN 59.4N 13.5E 55m 1861-1980 10 1951
Sources: A1, A14, A67, A68

Notes: A1: Alt; 47m. Means; $0.01(pt_7 + qt_{13} + rt_{19} + stn)$, where t_7 , t_{13} & t_{19} are the monthly means of the 07, 13 & 19h temps, tn is the monthly mean min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A14: Alt; 55m. No other details available. A67: Alt; 50m. No other details available. A68: No details available. Reliability: compared with 024640, 025500 & 025900 for the years 1951-1980.

024360: ÖREBRO SWEDEN 59.3N 15.2E 33m 1859-1976 83
Sources: A14, A67, A68, A69

Notes: A14: Alt; 33m. No other details available. A67: Alt; 32m. No other details available. A68: No details available. A69: No details available. Reliability: compared with 024640, 025760 & 026040 for the years 1859-1907. Record appears to have a trend and a definite jump at 1900/1901.

024640: STOCKHOLM SWEDEN 59.4N 18.1E 52m 1756-1980 10 1756
Sources: A1, A8, A35, A67, A68, A69

Notes: Station was also known as Bromma. A1: Means of $0.01(pt_7 + qt_{13} + rt_{19} + stn)$, where t_7 , t_{13} & t_{19} are the monthly means of the 07, 13 & 19h temps, tn is the monthly mean min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A14: 1951-Mar 1959 = 44m, Mar 1959-1970 = 52m. A8: No details available. A35: No details available. A67: Alt; 44m. No other details available. A68: No details available. A69: No details available. Reliability: compared with 020760, 029720 & 029740 for the years 1756-1970, 1756-1980 & 1829-1980.

024707: KREUZBURG SWEDEN 60.0N 18.2E 62m 1823-1849 33 1823
Sources: A35

Notes: A35: Alt; 62m. No other details available. Reliability: uncheckable.

025120: GOTHEBURG/SAVE SWEDEN 57.7N 12.0E 31m 1951-1980 81
Sources: A1, A14, A67, A68

Notes: A1: Alt; 31m. Means = $0.01(pt_7 + qt_{13} + rt_{19} + stn)$, where t_7 , t_{13} & t_{19} are monthly means of 07, 13 & 19h temps, tn is the monthly mean min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A14: Alt; 4m. No other details available. A67: Alt; 9m. No other details available. A68: No details available. Reliability: compared with 025500 & 024180 for the years 1951-1980. Definite trend 1960-1980.

025140: TORSLANDA SWEDEN 57.7N 11.8E 1961-1969 61
Sources: A1

Notes: A1: 1961-1970; means of $0.01(pt_7 + qt_{13} + rt_{19} + stn)$ where t_7 , t_{13} & t_{19} are monthly means of 07, 13 & 19h temps, tn is the monthly mean min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for constants p, q, r & s are given on p314, vol "1961-1970". 57 43'N 11 47'E, alt = 6m. Reliability: uncheckable.

025500: JÖNKÖPING SWEDEN 57.8N 14.2E 232m 1951-1980 10 1951
Sources: A1, A14, A67, A68

Notes: A1: 1951-1970; Alt = 99m. Means of $0.01(pt_7 + qt_{13} + rt_{19} + stn)$, where t_7 , t_{13} & t_{19} are the monthly means of the 07, 13 & 19h temps, tn is the monthly mean min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A14: Alt; 98m. No other details available. A67: Alt; 94m. No other details available. A68: No details available. Reliability: compared with 024180 & 024640 for the years 1951-1980. 1980 is suspect being 1C cooler than surrounding stations.

025760: VÄSTERVIK SWEDEN 57.8N 16.6E 9m 1859-1976 10 1859
Sources: A14, A68, A69

Notes: A14: Alt; 9m. No other details available. A68: No details available. A69: No details available. Reliability: compared with 024640 for the years 1859-1907.

025900: VISBY SWEDEN 57.7N 18.3E 28m 1861-1980 10 1951
Sources: A1, A14, A67, A68

Notes: A1: Alt; 28m. Means of $0.01(pt_7 + qt_{13} + rt_{19} + stn)$, where t_7 , t_{13} & t_{19} are monthly means of the 07, 13 & 19h temps, tn is the mean monthly min temp. $s = 0$ for Jan-Mar & for Oct-Dec. Values for the constants p, q, r & s are given on p385, vol 2. A14: Site; 57.5N 18.3E. No other details available. A67: Alt; 11m. No other details available. A68: No details available. Reliability: compared with 024180 & 024640 for the years 1951-1980.

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------|-------|-------|------|-----------|----|------|----------|-----------|---------|-------|-------|-----------|-----------|----|------|
| 026040: | HALMSTAD | SWEDEN | 56.7N | 12.9E | 64m | 1859-1976 | 10 | 1859 | 028740: | CARLO | FINLAND | 65.0N | 24.7E | 1817-1836 | 63 | | |
| Sources: | A14, A67, A68, A69 | | | | | | | | Sources: | A35 | | | | | | | |
| Notes: A14: Alt; 64m. No other details available. A67: Alt; 8m. No other details available. A68: No details available. A69: No details available. Reliability: compared with 024640 for the years 1859-1907. | | | | | | | | | | | | | | | | | |
| 026180: | LUND | SWEDEN | 55.7N | 13.2E | 73m | 1748-1976 | 63 | | 028750: | ULEABORG | FINLAND | 64.9N | 25.4E | 1776-1970 | 62 | | |
| Sources: | A14, A35, A67, A68 | | | | | | | | Sources: | A35 | | | | | | | |
| Notes: A14: Alt; 73m. No other details available. A35: No details available. A67: Alt; 35m. No other details available. A68: No details available. Reliability: uncheckable due to data gaps at other long-record stations. | | | | | | | | | | | | | | | | | |
| 028070: | IVALO | FINLAND | 68.6N | 27.4E | | 1961-1970 | 61 | | 028970: | KAJAANI | FINLAND | 64.3N | 27.7E | 136m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | | | Sources: | A1 | | | | | | | |
| Notes: A1: 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K are given on p49, vol "1961-1970". 68 36'N 27 25'E, alt = 147m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 028360: | SODANKYLA | FINLAND | 67.2N | 26.6E | 181m | 1907-1980 | 10 | 1908 | 029110: | VAASA | FINLAND | 63.1N | 21.8E | 8m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | | | Sources: | A1 | | | | | | | |
| Notes: A1: 1951-1960; Method of obtaining the monthly mean temp is given in "Supplement to the Meteorological Yearbook of Finland", full reference on p61, vol 2. 67 22'N 26 39'E, alt = 179m. 1961-1970; alt = 180m. 1/4(00 + 06 + 12 + 18) GMT + K. Values of K, a correction factor, are given on p49, vol 2. Reliability: compared with 021690 & 020800 for the years 1908-1980 & 1951-1980. | | | | | | | | | | | | | | | 27 | | |
| 028440: | TORNEO | FINLAND | 66.4N | 23.8E | | 1801-1832 | 63 | | 029117: | WORO | FINLAND | 63.2N | 22.0E | 1800-1824 | 63 | | |
| Sources: | A35 | | | | | | | | Sources: | A35 | | | | | | | |
| Notes: A35: No details available. Reliability: compared with 029117 for the years 1801-1824 but considered uncheckable. | | | | | | | | | | | | | | | | | |
| 028450: | ROVANIEMI | FINLAND | 66.6N | 25.8E | | 1961-1970 | 61 | | 029290: | JOENSUU | FINLAND | 62.7N | 29.6E | 1961-1970 | 61 | | |
| Sources: | A1 | | | | | | | | Sources: | A1 | | | | | | | |
| Notes: A1: 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K are given on p49, vol "1961-1970". 66 34'N 25 50'E, alt = 201m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 028690: | KUUSAMO | FINLAND | 66.0N | 29.2E | | 1961-1970 | 61 | | 029350: | JYVASKYLA | FINLAND | 62.4N | 25.7E | 145m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | | | Sources: | A1 | | | | | | | |
| Notes: A1: 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K are given on p49, vol "1961-1970". 65 58'N 29 11'E, alt = 263m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |

with 029630 & 029720 for the years 1957-1980 & 1951-1980.

029430: TAMPERE FINLAND 61.5N 23.7E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K are given on p49, vol "1961-1970". 61 28'N 23 44'E, alt = 86m. Reliability: uncheckable.

029580: LAPPEENRANTA FINLAND 61.1N 28.2E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K are given on p49, vol "1961-1970". 61 03'N 28 09'E, alt = 106m. Reliability: uncheckable.

029630: JOKIOINEN FINLAND 60.8N 23.5E 103m 1951-1980 10 1957
Sources: A1

Notes: A1: 1951-1960; The method of obtaining the mean is given in "Supplement to the Meteorological Yearbook of Finland", full reference on p61, vol 2. 60 49'N 23 29'E, alt = 103m. 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values for the correction factor, K, are given on p49, vol 2. 60 49'N 23 30'E, alt = 103m. Reliability: compared with 029350 & 029720 for the years 1957-1980.

029700: MAARIANHAMINA FINLAND 60.1N 19.9E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K are given on p49, vol "1961-1970". 60 07'N 19 54'E, alt = 6m. Reliability: uncheckable.

029720: TURKU FINLAND 60.5N 22.3E 54m 1750-1980 72 1951
Sources: A1, A35

Notes: A1: 1951-1960; Method of obtaining the monthly mean temp given in "Supplement to the Meteorological Yearbook of Finland", full reference on p61, vol 2. 1951-April 1955; 60 27'N 22 12'E, alt = 16m. May 1955-1970; 60 31'N 22 16'E, alt = 54m. 1961-1970; 1/4(00 + 06 + 12 + 18) GMT + K. Values of K, a correction factor, are given on p49, vol 2. A35: No details available. Reliability: compared with 029350, 020760 & 024640 for the years 1951-1980, 1750-1970 & 1756-1980. Data gap 1762-1950.

029740: HELSINKI/SEUTULA FINLAND 60.2N 25.0E 56m 1829-1980 20 1829
Sources: A1, A28, A35

Notes: A1: 1829-1920; alt; 12m. 1921-26; 1/3(07 + 14 + 21) LT. 1927-40; 1/3(07 + 15 + 21) Eastern Europe Time corrected to means of 24 hours. 1941-50; 1/2(08 + 20) + K, 30E MT. Values of K on p32. 1951-60; alt; 12m. Method for obtaining mean is in "Supplement to the Meteorological Yearbook of Finland", reference p61. Rain measured at 08 & credited to previous day. 1961-70; alt; 56m. 1/4(00 + 06 + 12 + 18) + K, values on p49. A28: No details available. A35: No details available. Reliability: compared with 029350, 029720 & 024640 for the years 1951-1980, 1951-1980 & 1829-1980.

Corrected for a site change in 1961. Correction Factors: Stations used: 029350 & 029720. Calculation dates: 1961-1980. Correction dates: 1829-1960. Factors: -16 -10 -8 -1 1 -2 -4 -6 -9 -11 -12 -11.

030050: LERWICK UK 60.1N 1.2W 82m 1931-1980 10 1931
Sources: A1

Notes: A1: 1/2(max + min). 1931; Coastguard, 60 09'N 1 08'W, alt = 18m. 1932; 60 09'N 1 10'W, alt = 16m. 1933-Aug 1941; 60 09'N 1 08'W, alt = 48m. Sept 1941-1960; Observatory, 60 08'N 1 11'W, alt = 82m. 1961-1970; alt = 83m. Reliability: compared with 030260 for the years 1931-1980.

030170: ORKNEY UK 59.1N 3.3W 22m 1827-1907 10 1827
Sources: A35, A39, A117

Notes: A39: Means of 1/2(max + min). Observations taken at the following sites; 1827-1884, Sandwick, 59 03'N 03 18'W, alt = 72ft. 1885-1890, Swanbister, 58 56'N 03 08'W, alt = 100ft. 1891-1906, Deerness, 58 57'N 02 45'W, alt = 150ft. A35: Observations taken at Stromness, 59.0N 3.3W, alt; 32m. Anomalies from mean (no years given). A117: Observations taken at Sandwick. Alt; 100ft. No other details available. Reliability: compared with 038997 & 031607 for the years 1856-1906 & 1827-1906.

030260: STORMOWAY UK 58.2N 6.3W 3m 1931-1980 10 1931 28
Sources: A1

Notes: A1: 1/2(max + min). 1931-1934; 58 12'N 6 24'W, alt = 10m. 1935; alt = 24m. 1936-1942; 58 11'N 6 21'W, alt = 24m. 1943-1947; 58 13'N 6 20'W, alt = 4m. 1948-1960; alt = 3m. 1961-1970; alt = 5m. Reliability: compared with 031000 for the years 1931-1980.

030680: GORDON CASTLE UK 57.6N 3.1W 32m 1781-1975 72 1900
Sources: A8, A14, A39

Notes: A8: No details available. A14: Alt; 32m. No other details available. A39: Alt; 80ft. Temp; 1/2(08 + 15), corrected for "daily range", no details given. Press; Means at 8 a.m. reduced to 32F. Reliability: compared with 038997, 031400 & 031607 for the years 1879-1969, 1857-1975 & 1781-1960. Data gap 1827-1878. Obvious trend prior to 1900. Two smaller trends are evident, starting and ending in 1960.

030881: FORT WILLIAM UK 56.8N 5.1W 66m 1884-1903 61
Sources: A14, A29

Notes: A14: Alt; 66m. No other details available. A29: No details available. Reliability: uncheckable.

030882: BEN NEVIS UK 56.8N 5.1W 1343m 1884-1903 61
Sources: A29

Notes: A29: Alt; 1343m. No other details available. Reliability: uncheckable.

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------|------|------|-----------|----|------|--|--|--|--|--|--|--|
| 030910: ABERDEEN/DYCE | UK | 57.2N | 2.1W | 59m | 1829-1980 | 20 | 1871 | | | | | | | |
| Sources: A1, A39 | | | | | | | | | | | | | | |
| Notes: A1: 1817-1947; Means of 24 hours (photographic thermograph). Alt; 14m. Moved to Dyce in 1948. Annual average rain 1881-1915 at Aberdeen was 749mm & for Dyce estimated at 813mm. 1948-70; 1/2(max + min). Alt; Jan 1951-Dec 1952; 72m, Jan 1953-Nov 1958; 56m, Dec 1958-1960; 58m, 1961-70; 59m. Aberdeen; 57 10'N 2 06'W. Dyce; 57 12'N 2 12'W. A39: Alt; 1829-Mar 1837; 125ft, Apr 1837-Dec 1842; 50ft, 1843-1859; 70 & 90ft, 1860-1865; 95ft. Reliability: compared with 030680 & 038997 for the years 1879-1969 & 1871-1969. Corrected for move to Dyce Airport in 1948. Correction Factors: Stations used: 030680, 031400 & 031600. Calculation dates: 1948-1960. Correction dates: 1871-1947. Factors: -10 -8 -7 -3 -2 -2 0 -1 -3 -6 -9 -10. | | | | | | | | | | | | | | |
| 031000: TIREE | UK | 56.5N | 6.9W | 9m | 1931-1980 | 10 | 1931 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | |
| Notes: A1: 1/2(max + min). 1931-Oct 1942; 56 32'N 6 55'W, alt = 7m. Oct 1942-Sept 1946; 56 30'N 6 53'W, alt = 13m. Oct 1946-1970; alt = 10m. Reliability: compared with 030260 & 031620 for the years 1931-1980. | | | | | | | | | | | | | | |
| 031400: GLASGOW | UK | 55.9N | 4.3W | | 1857-1978 | 10 | 1857 | | | | | | | |
| Sources: A8 | | | | | | | | | | | | | | |
| Notes: A8: No details available. Reliability: compared with 030680, 031600 & 039530 for the years 1857-1975, 1857-1960 & 1869-1978. | | | | | | | | | | | | | | |
| 031540: DUMFRIES | UK | 55.1N | 3.1W | | 1871-1969 | 70 | 1910 | | | | | | | |
| Sources: A8 | | | | | | | | | | | | | | |
| Notes: A8: No details available. Reliability: compared with 031607, 038988, 038994 & 038995 for the years 1871-1960, 1871-1969, 1871-1969 & 1898-1968. Record has trends prior to 1900 and a jump in 1910. | | | | | | | | | | | | | | |
| 031600: EDINBURGH/TURNHOUSE | UK | 56.0N | 3.4W | 35m | 1951-1980 | 10 | 1951 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 55 57'N 3 21'W, alt = 44m. Reliability: compared with 030910 for the years 1951-1980. | | | | | | | | | | | | | | |
| 031607: EDINBURGH/ROYAL OBS. | UK | 55.9N | 3.2W | 134m | 1764-1975 | 10 | 1857 | | | | | | | |
| Sources: A1, A8, A14, A35 | | | | | | | | | | | | | | |
| Notes: A1: 1/2(max + min). Various sites prior to 1930. Royal Observatory used from 1901 for temp & from 1924 for rain. Various corrections made, see p24, vol XC. Alt; 1921-1930; 250ft, 1931-1950; 441ft, 1951-1960; 134m. 1941-1950; 1/2(max + min) GMT. 1951-1960; 1/2(max + min) read at zone time closest to 09 GMT. In 1958 moved to Turnhouse Airport. 1958-1960; alt; 35m. 1961-1970; alt; 44m. 1961-1970; max credited to previous day. A8: No details available. A14: No details available. A35: No details available. Reliability: compared with 031400 & 030680 for the years 1857-1960 & 1781-1960. Difficult to check because of data gaps at other long-term stations so rest of record may well be good. | | | | | | | | | | | | | | |
| 031620: ESKDALEMUIR | UK | 55.3N | 3.2W | 239m | 1931-1980 | 10 | 1931 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 55 19'N 3 12'W. 1931-1936; alt = 243m. 1937-1960; 242m. 1961-1970; 237m. Reliability: compared with 030260 & 031000 for the years 1931-1980. | | | | | | | | | | | | | | |
| 032570: LEEMING | UK | 54.3N | 1.5W | | 1971-1980 | 61 | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | |
| 033020: VALLEY | UK | 53.3N | 4.5W | 10m | 1931-1980 | 10 | 1931 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | |
| Notes: A1: 1/2(max + min). 53 15'N 4 32'W, alt = 12m. 1931-June 1941 data from Holyhead; 53 19'N 4 37'W, alt = 9m. Reliability: compared with 033340 for the years 1951-1980. | | | | | | | | | | | | | | |
| 033210: HAWARDEN | UK | 53.2N | 3.0W | | 1951-1957 | 61 | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | |
| Notes: A1: 1951-1957; 1/2(max + min). 53 11'N 2 58'W, alt = 5m. Reliability: uncheckable. | | | | | | | | | | | | | | |
| 033230: BIDSTON | UK | 53.4N | 2.9W | | 1870-1971 | 70 | 1900 | | | | | | | |
| Sources: A8 | | | | | | | | | | | | | | |
| Notes: A8: No details available. Reliability: compared with 033400 & 038993 for the years 1882-1971 & 1887-1969. Pre-1900 record shows a possible trend. | | | | | | | | | | | | | | |
| 033340: MANCHESTER AIRPORT | UK | 53.4N | 2.3W | 77m | 1786-1980 | 72 | 1951 | | | | | | | |
| Sources: A1, A14, A35 | | | | | | | | | | | | | | |
| Notes: A1: Means of 1/2(daily max + daily min), read at 09 GMT. Alt; 1950-1960 = 76m, 1961-1970 = 84m. A14: Alt; 37m. No other details available. A35: Anomalies from mean (no years given). Site; 53.5N 2.3W. Reliability: compared with 033020, 033230 & 038994 for the years 1951-1980, 1870-1971 & 1847-1950. Data gap 1840-1950. | | | | | | | | | | | | | | |
| 033400: SHEFFIELD | UK | 53.4N | 1.5W | | 1882-1978 | 10 | 1882 | | | | | | | |
| Sources: A8 | | | | | | | | | | | | | | |
| Notes: A8: No details available. Reliability: compared with 038993 for the years 1887-1969. | | | | | | | | | | | | | | |

033770: WADDINGTON UK 53.2N .5W 6m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1/2(max + min). 1951-1960; 53 10'N 00 31'W, alt = 68m. 1961-1970; alt = 69m. Reliability: compared with 034970 for the years 1951-1975.

034970: GORLESTON UK 52.6N 1.7E 2m 1931-1975 10 1931
 Sources: A1
 Notes: A1: 1931-1970; 1/2(max + min). 1931; 52 35'N 1 43'E, alt = 4m. 1932-1965; alt = 2m. In 1966 the rain gauge height was re-assessed from 2 to 4m, no site change involved. 1961-1970; alt = 8m. Reliability: compared with 037430 & 038900 for the years 1931-1960 & 1931-1975.

035340: BIRMINGHAM/ELMDON AP UK 52.5N 1.7W 96m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 52 27'N 1 44'W, alt = 100m. Reliability: compared with 033340 for the years 1951-1980.

036970: FELIXSTOWE UK 52.0N 1.3E 3m 1931-1960 81
 Sources: A1
 Notes: A1: 1931-1960; 1/2(max + min). 51 57'N 1 20'E, alt = 5m. 1940-1960; alt = 3m. Reliability: compared with 034970, 037430 & 038900 for the years 1931-1960. Record shows a definite warming trend.

037150: GLAMORGAN/RHOOSNE APT UK 51.4N 3.4W 67m 1961-1980 10 1961
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 51 25'N 3 21'W, alt = 70m. Reliability: compared with 033020 for the years 1961-1980.

037430: LARKHILL UK 51.2N 1.8W 131m 1931-1960 10 1931
 Sources: A1
 Notes: A1: 1931-1942; 51 11'N 1 48'W, alt = 134m. 1943-1957; alt = 131m. 1958-1960; 51 12'N 1 48'W, alt = 131m. 1/2(max + min). Reliability: compared with 038900 & 038270 for the years 1931-1960.

037750: KEN UK 51.5N .3W 5m 1697-1980 40
 Sources: A1, A8, A14
 Notes: A1: 1941-1950; Means of 24 hours. 1951-1970; 1/2(daily max + daily min). Alt; 1951-1960 = 5m, 1961-1970 = 10m. Rain is read at 09 GMT & credited to the previous day. A8: No details available. A14: Alt; 5m. No other details available. Reliability: compared with 038909 & 038996 for the years 1872-1969 & 1871-1969. Definite urban warming trend apparent, especially after 1945.

037760: LONDON/GATWICK APT UK 51.2N .2W 59m 1961-1980 10 1961
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 51 09'N 0 11'W, alt = 60m. Reliability: compared with 038620 for the years 1961-1980.

037837: GREENWICH/MARITIME M UK 51.5N .0W 7m 1763-1969 80
 Sources: A1, A8, A35, A43, A117
 Notes: A1: 1841-Dec 1848; means of 12 obs. 1849-1933; means of hourly values from photographic thermograph reduced using dry-bulb thermometer which moved in Jan 1899. Other minor changes occurred in 1846 & 1863. Further site details on p46, vol 79. 1934-1949; 1/2(max + min), corrected to means of 24 hours, see p28, vol 105. 1949-60; 1/2(max + min). Site moved May 1951 from 46 to 7m. Earlier obs. not comparable. A8: No details available. A35: No details available. A43: "Real" means. Alt; 49m. A117: Alt; 158ft. No other details available. Reliability: Compared with 038989 & 038996 for the years 1872-1969 & 1871-1969. Record has a jump around 1950 which has not been corrected.

037897: SOUTHAMPTON UK 50.9N 1.4W 1855-1978 40
 Sources: A8
 Notes: A8: No details available. Reliability: compared with 037898, 038270 & 038900 for the years 1877-1975, 1865-1978 & 1855-1978. 30

037898: ROSS-ON-WYE UK 51.9N 2.6W 1877-1975 10 1877
 Sources: A8
 Notes: A8: No details available. Reliability: compared with 038270, 038900 & 038989 for the years 1877-1975, 1877-1975 & 1877-1969.

038247: TRURO UK 50.3N 5.1W 1851-1900 80
 Sources: A43
 Notes: A43: "Real" means. No other details available. Reliability: compared with 038270 & 038637 for the years 1865-1900 & 1851-1900. Record shows a definite warming trend, particularly around 1890.

038270: PLYMOUTH/MT. BATTEIN UK 50.4N 4.1W 27m 1865-1980 10 1865
 Sources: A1, A8
 Notes: A1: Alt; 27m, Mount Batten. 1931-1940; 1/3(07 + 13 + 18) GMT. 1941-1942; 1/3(07 + 13 + 15). 1943-July 1944; 1/4(01 + 07 + 13 + 18). Aug 1944-Dec 1944; 1/4(00 + 06 + 12 + 18). 1945-1960; 1/4(03 + 09 + 15 + 21). 1961-1970; 1/2(daily max + daily min). Site changes; 1931-1945; 50 22'N 04 08'W, alt = 25m. 1946-1948; 50 22'N 04 10'W, alt = 9m. 1949-1970; 50 21'N 04 07'W, alt = 27m. A8: Site; 50.4N 4.2W. No other details available. Reliability: compared with 038637, 038940, 037420, 037898 & 038900 for the years 1865-1900, 1865-1900, 1931-1960, 1877-1975 & 1865-1980.

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| 038620: BOURNEMOUTH/HURN APT UK Sources: A1 | 50.8N 1.8W 10m 1961-1980 10 1961 | 038992: SCARBOROUGH UK 54.2N .4W 1872-1969 10 1872 |
| Notes: A1: 1961-1970; 1/2(max + min). 50 47'N 1 50'W, alt = 14m. Reliability: compared with 037760 for the years 1961-1980. | | Notes: A8: No details available. Reliability: compared with 038988 & 038991 for the years 1872-1969. 1912 temps are 2C cooler than surrounding stations - probably need correcting. |
| 038637: OSBORNE UK 50.8N 1.3W 52m 1851-1900 10 1851 Sources: A43 | | 038993: EDGBASTON UK 52.5N 1.9W 1887-1969 10 1887 Sources: A8 |
| Notes: Osborne is on the Isle of Wight. A43: Temp; "Real" means. Press; "Real" means. Alt; 52m. Reliability: compared with 038940 for the years 1851-1900. | | Notes: A8: No details available. Reliability: compared with 033400 & 037898 for the years 1887-1969. |
| 038900: OXFORD UK 51.7N 1.2W 63m 1767-1980 70 1900 Sources: A8, A14, A35, A43 | | 038994: DURHAM UK 54.8N 1.6W 1847-1981 10 1847 Sources: A8 |
| Notes: A8: Site; 51.8N 1.3W. No other details available. A14: Alt; 63m. No other details available. A35: 1856-1868; anomalies from mean (no years given). No other details available. A43: "Real" means. Alt; 65m. Reliability: compared with 037898, 038989 & 038993 for the years 1877-1975, 1872-1969 & 1887-1969. Trends are apparent in the pre-1900 record, but scale is generally small. | | Notes: A8: No details available. Reliability: compared with 031607, 038995 & 033400 for the years 1847-1960, 1898-1968 & 1882-1878. A discontinuity is apparent around 1933/1934 & needs correcting. |
| 038940: GUERNSEY UK 49.5N 2.6W 62m 1851-1900 10 1851 Sources: A43, A117 | | 038995: COCKLE PARK UK 55.2N 1.6W 1898-1968 10 1898 Sources: A8 |
| Notes: A43: Alt; 62m. Temp; "Real" means. Press; "Real" means. A117: Alt; 123ft. No other details available. Reliability: compared with 038637 for the years 1851-1900. | | Notes: A8: No details available. Reliability: compared with 038988 & 038994 for the years 1898-1968. 31 |
| 038988: YORK UK 53.9N 1.1W 1871-1969 10 1871 Sources: A8 | | 038996: CAMBRIDGE UK 52.2N .1E 12m 1848-1975 10 1871 Sources: A8, A14 |
| Notes: A8: No details available. Reliability: compared with 031607, 038994 & 038995 for the years 1871-1960, 1871-1969 & 1898-1968. | | Notes: A8: No details available. A14: Alt; 12m. No other details available. Reliability: compared with 038989 for the years 1872-1969. |
| 038989: ROTHAMSTEAD UK 51.7N 19.3E 1872-1969 10 1872 Sources: A8 | | 038997: BRAEMAR UK 57.0N 3.4W 339m 1856-1973 80 Sources: A8, A14, A35 |
| Notes: A8: No details available. Reliability: compared with 037898, 038993 & 038996 for the years 1877-1969, 1887-1969 & 1872-1969. Very small jump (0.2-0.3C) around 1915/1916 has not been corrected. | | Notes: A8: No details available. A14: Alt; 339m. No other details available. A35: Anomalies from mean (no years given). Reliability: compared with 030680 & 030910 for the years 1879-1969 & 1871-1969. An uncorrected jump is apparent at around 1911/1912. |
| 038991: STONYHURST UK 53.8N 2.5W 115m 1848-1975 10 1848 Sources: A8, A14 | | 038998: ABERYSTWYTH UK 52.4N 4.1W 1889-1969 80 Sources: A8 |
| Notes: A8: No details available. A14: Alt; 115m. No other details available. Reliability: compared with 038988 & 038992 for the years 1871-1969 & 1872-1969. | | Notes: A8: No details available. Reliability: compared with 037898, 038900 & 038993 for the years 1889-1969. Obvious warming trend from about 1960 could be urban warming. |

039170: BELFAST/ALDERGROVE A UK 54.7N 6.2W 73m 1834-1980 72 1885
 Sources: A1, A14

Notes: A1: means of 1/2(daily max + daily min), read at 0900 GMT. Alt; Jan 1931-Dec 1937 = 73m, Jan 1938-Dec 1942 = 82m, Jan 1943-Dec 1950 = 90m, Jan 1951-Dec 1959 = 69m, Jan 1960-Dec 1970 = 73m. A14: Site; 54.7N 6.2W. Alt; 115m. No other details available. Reliability: compared with 039530, 031400 & 033020 for the years 1869-1980, 1857-1978 & 1931-1980. Data gap 1847-1865. A trend is apparent prior to 1885.

039520: ROCES POINT IRELAND 51.8N 8.3W 41m 1955-1970 61
 Sources: A1

Notes: A1: 1951-1970; 1/2(max + min). 51 48'N 8 15'W, alt = 41m. Reliability: uncheckable.

039530: VALENTIA OBSERVATORY IRELAND 51.9N 10.3W 14m 1861-1980 10 1869
 Sources: A1, A14

Notes: A1: 1869-1920; means of hourly readings, from a photographic thermograph. Alt; 1921-1970 = 14m. 1931-1940; Corrections for reducing the means of 1/2(max + min) to the means of 24 hours are given on p28, vol 105. 1941-1950; means of 24 hours, GMT, from a photographic thermograph. 1951-1970; means of 1/2(max + min), of 24 hours ending at 2100 GMT. A14: Alt; 9m. No other details available. Reliability: compared with 039170 & 031400 for the years 1869-1980 & 1869-1978.

039550: CORK AIRPORT IRELAND 51.9N 8.2W 162m 1836-1980 62
 Sources: A1, A14

Notes: A1: Means of 1/2(mean daily max + mean daily min). Daily values of max & min refer to periods of 24 hours, ending at 21 GMT. Rain is measured at 06 GMT & accredited to the previous day. Alt; 162m. A14: Alt; 18m. No other details available. Reliability: compared with 039700 & 039710 for the years 1949-1970. Data gap 1956-1961 so is uncheckable.

039570: ROSSLARE IRELAND 52.3N 6.3W 1961-1970 61
 Sources: A1

Notes: A1: 1961-1970; 1/2(max + min). 52 15'N 6 20'W, alt = 25m. Reliability: uncheckable.

039600: KILKENNY IRELAND 52.7N 7.3W 1961-1970 61
 Sources: A1

Notes: A1: 1961-1970; 1/2(max + min). 52 40'N 7 16'W, alt = 64m. Reliability: uncheckable.

039620: SHANNON AIRPORT IRELAND 52.7N 8.9W 7m 1861-1980 40
 Sources: A1, A14

Notes: A1: Means of 1/2(max + min) of 24 hours, ending at 21 GMT. Alt; 1948-1960 = 7m, 1961-1970 = 13m. A14: Alt; 7m. No other details available. Reliability: compared with 039170 & 039530 for the years 1948-1980.

039650: BIRR IRELAND 53.1N 7.9W 72m 1845-1975 61
 Sources: A1, A14

Notes: A1: Alt; 72m. Means of 1/2(max + min). Daily values of max & min refer to periods of 24 hours, ending at 2100 GMT, except during 1948 when 24 hours end at 1800 GMT. Rain was determined from daily values, referring to periods of 24 hours, ending at 0600 GMT & 0700 GMT in 1948. A14: Alt; 53m. No other details available. Reliability: uncheckable.

039670: CASEMENT AP. IRELAND 53.3N 6.4W 1961-1970 61
 Sources: A1

Notes: A1: 1961-1970; 1/2(max + min). 53 18'N 6 26'W, alt = 93m. Reliability: uncheckable.

039690: DUBLIN AIRPORT IRELAND 53.4N 6.3W 81m 1831-1980 40
 Sources: A1, A14, A35, A99, A100, A105, A138

Notes: A1: Airport site; alt = 81m, except for Feb-Dec 1957, when it was 77m. Means of 1/2(max + min). Daily values refer to periods of 24 hours, ending at 21 GMT, except in 1948, when it ended at 18 GMT. A14: Alt; 47m. No other details available. A35: Anomalies from mean (no years given). A99: Station located at Trinity College. No other details available. A100: Temp; 1831-1838 = 1/2(09 + 15). 1839-1852 = 1/2(09 + 21). Values for 1831-1840 have been reduced to values it is assumed they would have had in the position used in later years, by applying corrections (details given in source). Press; means as above, corrections on p484 of the source. A103: No details available. A138: Observations taken in Phoenix Park. No other details available. Reliability: compared with 039170 & 039530 for the years 1834-1980 & 1869-1980. "Classic example of urban warming"!

039700: CLAREMORRIS IRELAND 53.7N 9.0W 69m 1949-1970 10 1949
 Sources: A1

Notes: A1: 1949-1970; 1/2(max + min). 53 43'N 8 59'W, alt = 69m. Reliability: compared with 039710 for the years 1949-1970.

039710: MULLINGAR IRELAND 53.5N 7.4W 110m 1949-1970 10 1949
 Sources: A1

Notes: A1: 1949-1960; 1/2(max + min). 53 31'N 7 21'W, alt = 110m. Reliability: compared with 039700 for the years 1949-1970.

32

039740: CLONES IRELAND 54.2N 7.2W 89m 1950-1970 10 1950
 Sources: A1

Notes: A1: 1950-Jan 1966; 1/2(max + min). 54 11'N 7 14'W, alt = 89m. Feb 1966-1970; alt = 86m. Reliability: compared with 039170 for the years 1950-1970.

039760: BELMULLET IRELAND 54.2N 10.0W 9m 1961-1980 10 1961
 Sources: A1

Notes: A1: 1961-1970; 1/2(max + min). 54 14'N 10 00'W, alt = 10m. Reliability: compared with 039170 & 039530 for the years 1961-1980.

039800: MALIN HEAD IRELAND 55.4N 7.3W 25m 1955-1980 10 1955
 Sources: A1

Notes: A1: 1/2(max + min). 1955-1970; 55 22'N 7 20'W, alt = 25m. An additional rain gauge was used from Oct 1955 & became the official gauge from Jan 1957. Earlier data were adjusted to this gauge. Reliability: compared with 039170 & 039530 for the years 1955-1980.

040130: STYKKISHOLMUR ICELAND 65.0N 22.8W 26m 1846-1980 70 1846
 Sources: A1, A37

Notes: A1: 3 different methods were used, up to 1931; 1; 1845-May 1923; means of 07h. June 1873-1923; means of 08h. 2; 1845-1868; 14h. 1869-May 1873; 12h. June 1873-1923; 14h. 3; 1/2(08 + 14). Alt; 1921-1930 = 25m, 1931-1940 = 21 to 28m, 1941-1950 = 26m. The station moved in 1921, 1923, 1938 & 1940, but no details are given. 1951-1960; 1/8(02 + 05 + 08 + 11 + 14 + 17 + 20 + 23) Icelandic Mean Time. The old thermometer wall screen was replaced by a freely exposed one in Nov 1951. Both were used for a year & the differences (-0.1 to +0.3C) are listed in vol 2. 1961-1970; 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24) GMT. 65 05'N 22 44'W, alt = 16m. A37: Means of 12 noon, reduced to 32F. Reliability: compared with 040300 & 040650 for the years 1901-1980 & 1874-1970. Uncheckable prior to 1874. High variability seen in all comparisons.

040180: KEFLAVIK ICELAND 64.0N 22.6W 49m 1952-1980 10 1952
 Sources: A1

Notes: A1: 1952-1960; 1/8(02 + 05 + 08 + ...23) Icelandic Mean Time. 63 59'N 22 37'W, alt = 50m. 1961-1970; 1/8(03 + 06 + ...24) GMT. 63 58'N 22 36'W, alt = 52m. Reliability: compared with 040480 & 040820 for the years 1952-1970 & 1952-1980.

040300: REYKJAVIK ICELAND 64.0N 22.0W 16m 1829-1980 10 1901
 Sources: A1, A35

Notes: A35: Alt; 11m. No other details available. A1: 1951-1960; 1/8(02 + 05 + 08 + 11 + 14 + 17 + 20 + 22) Icelandic Mean Time. 64 08'N 21 56'W, alt = 18m. 1961-1970; 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24) GMT. Alt = 13m. Reliability: compared with 040130 & 040650 for the years 1901-1980 & 1901-1970.

040480: VESTMANNAEYJAR ICELAND 63.4N 20.3W 122m 1881-1970 20 1884
 Sources: A1

Notes: A1: 1884-1950; Means of 1/2(08 + 14)15W meridian time. 1921-1930; Data have been corrected by 0.7C for this period, to "make observations at the 2 sites comparable", but no details of any change are given. Alt; 1884-1930 = 132m, 1931-1960 = 124m. The wall screen was replaced by a freely exposed one in June 1953. Corrections are given on p279, vol 6. 1951-1960; 1/8(02 + 05 + 08 + 11 + 14 + 17 + 20 + 23) Icelandic Mean Time. 1961-1970; 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24) GMT. 63 24'N 20 17'W, alt = 118m. Reliability: compared with 040300 for the years 1901-1970. Corrected for a definite jump 1930/1931. Correction Factors: Stations used: 040300. Calculation dates: 1931-1970. Correction dates: 1884-1930. Factors: -8 -8 -11 -12 -13 -12 -11 -11 -10 -9 -7 -7.

040630: AKUREYI ICELAND 65.7N 18.1W 27m 1882-1980 10 1882
 Sources: A1, A136

Notes: A1: 1930-1940; 1/2(08 + 14). 1941-1950; 1/2(08 + 14) 15W meridian time. 1951-1960; 1/8(02 + 05 + 08 + 11 + 14 + 17 + 20 + 23) IMT. Corrections are given on p280, vol 6 for 1/2(08 + 14). 1961-1970; 1/8(03 + 06 + ...24) GMT. 1931-1950; alt varied from 50 to 57m. In Mar 1943 the station moved 1km north. 1951-1960; alt = 5m, 1961-1970 = 23m, 65 41'N 18 05'W. A136: No details available. Reliability: compared with 040130, 040300 & 040650 for the years 1882-1980, 1901-1980 & 1882-1970.

040650: GRIMSEY ICELAND 66.6N 18.0W 6m 1874-1970 10 1874
 Sources: A1

Notes: A1: 1874-1940; means of 1/2(08 + 14). Alt = 22m. The station moved in July 1945, no details given. In 1943 the old wall thermometer was replaced by a screen. 1941-1948; 1/2(5(08) + 14 + 17 + 3(21)). 1949-1950; 1/8(02 + 05 + 08 + 11 + 14 + 17 + 20 + 23). The hours of observation were 08, 11, 14, 17 & 23 Icelandic Mean Time. Other values were taken from a diagram of diurnal temp variation. 1951-1960; Alt = 6m. 1/2(08 + 20) + C1. C1 is a correction factor, listed on p280, vol 6. 1961-1970; 1/2(09 + 21) + C, GMT. Values for C are given on p30, vol 2. 66 32'N 18 01'W, alt = 10m. Reliability: compared with 040630, 040300 & 040130 for the years 1882-1970, 1901-1970 & 1874-1970.

040820: HOLAR I HORNAFIRDI ICELAND 64.3N 15.2W 17m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1964; 64 18'N 15 12'W, alt = 17m. Thermometer screen was replaced by a freely exposed one in Aug 1956. In June 1956 the rain gauge was fitted with a shield. 1/8(02 + 05 + 08 + ...23) Icelandic Mean Time. July 1965-1970; 64 15'N 15 11'W, alt = 8m. Mean temp difference given on p29, vol 6, ratio for prec is 0.89. Both sets of values are based on 1966-1970 comparison. 1/8(03 + 06 + ...24) GMT. Reliability: compared with 040887 for the years 1951-1970.

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| 040887: | TEIGARHORN | ICELAND | 64.7N | 14.4W | 18m | 1873-1970 | 10 | 1884 | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1884-1950; 1/2(08 + 14) 15W meridian time. 1951-1960; 1/2(08 + 21) + C2. Values for C2 & corrections for earlier data are given on p280, vol 6. Alt; 18m. Reliability: compared with 040630 for the years 1884-1970. Station merged with 040000. | | | | | | | | | | | |
| 042000: | DUNDAS RADIO | GREENLAND | 76.6N | 68.8W | 20m | 1961-1970 | 61 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1961-1970; 1/8(00 + 03 + ...21) GMT, corrections on p24, vol "1961-1970". 76 34'N 68 48'W, alt = 20m. Reliability: uncheckable. | | | | | | | | | | | |
| 042020: | TRUE US AFB | GREENLAND | 76.5N | 68.8W | 11m | 1946-1964 | 61 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1946-1950; 1/2(max + min). 76 34'N 68 49'W, alt = 124ft. Nov 1951-1960; 76 31'N 68 50'W, alt = 11m. 1/8(00 + 03 + ...21) GMT. 1961-1970; alt = 59m. Reliability: uncheckable. | | | | | | | | | | | |
| 042100: | UPERNAVIK | GREENLAND | 72.8N | 56.1W | 63m | 1873-1980 | 10 | 1873 | | | |
| Sources: | All, A94 | | | | | | | | | | |
| Notes: All: Means of 1/9(2(08 + 14) + 5(21)) 45W meridian time. Alt; 1873-1944 = 19m, 1945-1950 = 36m, 1951-1960 = 64m. 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. 72 47'N 56 10'W, alt = 63m. A94: Anomalies from mean. No other details available. Reliability: compared with 042160, 042500 & 043600 for the years 1873-1970, 1873-1980 & 1895-1980. | | | | | | | | | | | |
| 042160: | JAKOBSHAVN | GREENLAND | 69.2N | 51.0W | 47m | 1866-1970 | 10 | 1866 | | | |
| Sources: | All, A8, A94 | | | | | | | | | | |
| Notes: All: 1873-1940; 1/9(08 + 08 + 14 + 14 + 5(21)). 1941-1950; means as above at 45W meridian time. 1951-1970; 1/6(4(00) + 12 + 18) GMT. Data for this period are from the synoptic station, the climatic station closed in 1962. Site changes; 1873-1930; 69 13'N 51 02'W, alt = 13m. 1931-1940; alt = 32m, 1941-1950 = 44m, 1951-1960 = 47m. 1961-1970; 69 13'N 51 03'W, alt = 39m. A8: No details available. A94: Anomalies from mean. 1/9(08 + 08 + 14 + 14 + 5(21)), corrected by +0.1C for Jan & Dec & by -0.1C for other months. Reliability: compared with 042100, 042500 & 043600 for the years 1873-1970, 1866-1970 & 1895-1970. Nov data 1951-1960 had wrong signs. | | | | | | | | | | | |
| 042200: | EDEDESMINDE | GREENLAND | 68.7N | 52.8W | 48m | 1951-1980 | 10 | 1951 | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/4(00 + 06 + 12 + 18) GMT. 1951-1960; 68 42'N 52 52'W, alt = 48m. 1961-1970; 68 42'N 52 45'W, alt = 48m. 1/8(00 + 03 + ...21) GMT. Reliability: compared with 043200 & 043400 for the years 1951-1980. | | | | | | | | | | | |
| 042500: | GODTHAAB | GREENLAND | 64.2N | 51.7W | 20m | 1866-1980 | 10 | 1866 | | | |
| Sources: | All, A35, A94 | | | | | | | | | | |
| Notes: All: 1875-1950; means of 1/9(2(08 + 14) + 5(21)). Alt; 1875-1930 = 9m, 1931-1960 = 20m. 1937 on; Observation times are 45W meridian time. 1951-1960; A correction, C, is applied to the above rough mean temps. C depends on the mean amplitude, which is T14 T08 T21/2. True mean temp = M + C. Corrections given on p270, vol 6. Observations are at Western Greenland Time (GMT - 3 hours). 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. 64 10'N 51 45'W, alt = 25m. A35: No details available. A94: Anomalies from mean. Temp; 1/9(2(08 + 14) + 5(21)), corrected by 0.1 for Jan & Dec & by -0.1C for other months. Reliability: compared with 043600, 042100 & 042160 for the years 1895-1980, 1873-1980 & 1866-1970. Nov data 1951-1960 had wrong signs. | | | | | | | | | | | |
| 042610: | GROENNAEDAL | GREENLAND | 61.2N | 48.1W | 27m | 1951-1970 | 61 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1961-1970; 1/8(00 + 03 + ...21) GMT. 61 13'N 48 07'W, alt = 27m. Reliability: uncheckable. | | | | | | | | | | | |
| 042620: | IVIKTUT | GREENLAND | 61.2N | 48.2W | 30m | 1875-1966 | 10 | | | | |
| Sources: | All, A8, A94 | | | | | | | | | | |
| Notes: All: 1875-1920; means of 1/7(08 + 14 + 5(20)), corrected to means of 24 hours. 1921; 1/9(08 + 08 + 14 + 14 + 5(21)). 1922-Mar 1923; 1/9(08 + 08 + 15 + 15 + 5(21)). April 1923-1950; 1/9(08 + 08 + 14 + 14 + 5(21)) 45W meridian time. 1951-1960; means as above, time is Western Greenland Time, (GMT - 3 hours), corrected by adding a correction of C. C is found for every month by means of the mean amplitude 8 which is T14 T08 T21/2, see p270, vol 6. Alt = 30m. A8: No details available. A94: Anomalies from mean. Temp; means of 1/9(08 + 08 + 14 + 14 + 5(09)), corrected by +0.1C for Jan & Dec & by -0.1C for other months. Reliability: compared with 043600 & 042500 for the years 1895-1960 & 1875-1960. Nov data 1951-1960 had wrong signs. | | | | | | | | | | | |
| 043100: | NORD | GREENLAND | 81.5N | 16.8W | 35m | 1952-1972 | 10 | 1952 | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. 1951-1960; 81 36'N 16 40'W, alt = 36m. 1961-1970; alt = 35m. Reliability: compared with 043200 & 043400 for the years 1952-1972. | | | | | | | | | | | |
| 043200: | DANMARKSHAVN | GREENLAND | 76.7N | 18.9W | 11m | 1951-1980 | 10 | 1951 | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. 1951-1960; 76 46'N 18 46'W, alt = 18m. 1961-1970; alt = 11m. Reliability: compared with 043400 for the years 1951-1980. | | | | | | | | | | | |

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| 043400: KAP TOBIN Sources: A1 | GREENLAND | 70.5N | 22.0W | 41m | 1931-1980 | 10 | 1951 | 060527: VESTERVIG Sources: A12, A110 | DENMARK | 56.8N | 8.3E | 19m | 1874-1969 | 10 | 1874 |
| Notes: A1: 1931-1936; 1/9(2(08 + 14) + 5(21)) 30W meridian time. 70 29'N 21 58'W, alt = 17m. 1948-1950; 1/4(22 + 04 + 10 + 16) 30W meridian time. 70 25'N 21 58'W, alt = 42m. 1951-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 043200 for the years 1951-1980. | | | | | | | | Notes: A12: Alt; 19m. No other details available. A110: Means of 1/3(08 + 14 + 21). Reliability: compared with 061607 & 060667 for the years 1874-1969. | | | | | | | |
| 043600: ANGMAGSSALIK Sources: A1, A8 | GREENLAND | 65.6N | 37.6W | 35m | 1895-1980 | 10 | 1895 | 060667: TARM Sources: A12, A110 | DENMARK | 55.9N | 8.5E | 7m | 1861-1969 | 10 | 1861 |
| Notes: A1: 1894-1930; alt = 32m. Means of 1/9(2(08 + 14) + 5(21)), this gives an approximation of the 24 hour mean. 1931-1940; alt = 30m. Means as above. 1941-1950; as above, but time is given as 30E meridian time. Alt; 29m. 1951-1960; alt = 36m. Means as above. The climatic station closed in 1959, so latter data is from the synoptic station. The differences in mean temp are great (see p269, vol 6) mainly because the synoptic station is more often snow covered in winter. 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. 65 36'N 37 38'W, alt = 35m. A8: No details available. Reliability: compared with 042500 & 042617 for the years 1895-1980 & 1895-1960. | | | | | | | | Notes: A12: Alt; 7m. No other details available. A110: Means of 1/3(08 + 14 + 21). Reliability: compared with 060527, 061607 & 061860 for the years 1874-1969, 1873-1969 & 1861-1969. | | | | | | | |
| 043900: PRINS CHRISTIANS S. GREENLAND Sources: A1 | GREENLAND | 60.0N | 43.1W | 76m | 1951-1980 | 10 | 1951 | 060767: RANDERS Sources: A12 | DENMARK | 56.5N | 10.1E | 5m | 1869-1925 | 10 | 1869 |
| Notes: A1: 1/8(00 + 03 + 06 + ...21) GMT. 1951-1960; 60 03'N 43 12'W, alt = 77m. 1961-1970; 60 02'N 43 07'W, alt = 76m. Reliability: compared with 042500 & 043600 for the years 1951-1980. Nov data 1951-1960 had wrong signs. | | | | | | | | Notes: A12: Alt; 5m. No other details available. Reliability: compared with 061860 & 061967 for the years 1869-1925 & 1877-1925. Some evidence of a small trend in pre-1900 record. | | | | | | | |
| 060110: THORSHAVN Sources: A1, A131 | FAEROES | 62.1N | 6.8W | 39m | 1867-1980 | 10 | 1867 | 061607: BOGO Sources: A12, A110 | DENMARK | 54.9N | 12.1E | 27m | 1873-1969 | 10 | 1873 |
| Notes: Station was also known as Hojvig. A1: Means of 1/4(08 + 14 + 21 + 21)GMT. 1873-1925 = 26m at Thorshavn, 1926-1950 = 23m at Hojvig, 1951-1960 = Alt; 1873-1925 = 26m at Thorshavn, 1926-1950 = 23m at Hojvig, 1951-1960 = 39m at Thorshavn. 1951-1960; 1/4(00 + 06 + 12 + 18)GMT. 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. 62 01'N 6 46'W, alt = 24m. A131: Press corrected to MSL. No other details available. Reliability: compared with 040130 for the years 1867-1980. | | | | | | | | Notes: A12: Alt; 40m, later 27m. No other details available. A110: Means of 1/3(08 + 14 + 21). Reliability: compared with 060527 & 060667 for the years 1874-1969 & 1873-1969. | | | | | | 35 | |
| 060300: ALBORG Sources: A1 | DENMARK | 57.1N | 9.9E | 3m | 1961-1980 | 10 | 1961 | 061860: COPENHAGEN Sources: A1, A14, A35 | DENMARK | 55.7N | 12.6E | 22m | 1768-1980 | 10 | 1768 |
| Notes: A1: 1961-1970; Means of observations taken at 07, 13 & 20 GMT. Reference to calculation method is given on p46, vol "1961-1970". No other details available. Reliability: compared with 061860 for the years 1961-1980. | | | | | | | | Notes: A1: 1768-1920; 11 obs. time combinations used, reduced to means of 24 hours by 25 years of hourly obs., see p50, vol 79. 3 sites; Sundetssarn 1768-1817; 43m, Botanical Gardens 1818-May 1860; 4m, Agricultural High School June 1860-1920; 13m. Sundetssarn reduced to Botanical Gardens with 5.5 years of simultaneous obs., both reduced to High School with 14.5 years of simultaneous obs. 1920-1930; alt; 5m. Means of 24 hours. 1931-1950; 1/3(08 + 14 + 21) 158 MT. 1951-1960; alt; 22m. 1/3(08 + 14 + 21) Central Europe Time + C. 1961-1970; Airport = 5m, High School = 9m. 1/3(07 + 13 + 20) GMT + C. A14: alt; 5m. No other details available. A35: No details available. Reliability: compared with 060527, 060667 & 061607 for the years 1874-1969, 1861-1969 & 1873-1969. Record shows some very slight evidence of warming. | | | | | | | |
| 060377: SKAGEN FYR Sources: A12, A110 | DENMARK | 57.7N | 10.6E | 3m | 1873-1926 | 80 | | 061967: BODILSHØ Sources: A12 | DENMARK | 55.1N | 15.1E | 48m | 1877-1925 | 80 | |
| Notes: A12: Alt; 3m. No other details available. A110: Means of 1/3(08 + 14 + 21). Reliability: compared with 061860 & 061967 for the years 1873-1926 & 1873-1925. Record shows definite jump 1914/1915. | | | | | | | | Notes: A12: Alt; 48m. No other details available. Reliability: compared with 060767 & 061860 for the years 1877-1925. Some evidence for a jump around 1900 and a post-1900 warming trend of about 0.3-0.4C. | | | | | | | |

| | | | | | | | | |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|-------|-------|-----------|----|------|
| 061990: | DUEODDE | DENMARK | 55.0N | 15.1E | 6m | 1961-1976 | 61 | |
| Sources: A1 | | | | | | | | |
| Notes: | A1: 1961-1970; Means of observations taken at 07, 13 & 20 GMT. Reference to calculation method given on p46, vol "1961-1970". No other details available. Reliability: uncheckable. | | | | | | | |
| -15 -19 -17 -17 -18 -16 -17 -15 -23 -23. | | | | | | | | |
| 062600: | DE BILT | NETHERLANDS | 52.1N | 5.2E | 8m | 1706-1980 | 10 | 1951 |
| Sources: | A1, A8, A14, A35, A43, A90 | | | | | | | |
| Notes: | A1: 1849-1940; 1/3(08 + 14 + 19). Alt; 3m. 1941-1950; 1/3(08 + 14 + 19) LT, corrections on p34 to reduce to means of 24 hours. In Jan 1946 rain gauge height was reduced from 1.50 to 0.40m. Error due to wind estimated at 1.50m & 4% 1951-1960; alt; 2m. Means of 24 hourly obs., from thermograph readings & corrected by comparison with regular obs. at 08, 14 & 19h. 1961-1970; alt; 8m. A8: No details available. A14: Alt; 2m. No other details available. A35: 1858-1868; anomalies from mean (no years given). A43: 1/3(08 + 14 + 22). Alt; 14m. A90: No details available. Reliability: compared with 064470 & 071500 for the years 1833-1980 & 1764-1980. 1706-1950 record shows warming & then cooling trends so has been rejected. | | | | | | | |
| 063807: | MAASTRICHT | NETHERLANDS | 50.9N | 5.7E | 49m | 1818-1868 | 83 | |
| Sources: | A14, A35, A90 | | | | | | | |
| Notes: | A14: Alt; 49m. No other details available. A35: 1858-1868; Anomalies from mean (no years given). No other details available. A90: No details available. Reliability: compared with 062600 for the years 1818-1868. Data gap 1834-1851. Jump in record 1856/1857. | | | | | | | |
| 064470: | UCCLE | BELGIUM | 50.8N | 4.4E | 104m | 1833-1980 | 10 | 1833 |
| Sources: | A1, A14, A35, A43, A76, A119 | | | | | | | |
| Notes: | A1: In 1890 the station moved from 50.9 4.5E, alt 39m, to Uccle. Means of bi-hourly observations 1/12 (02 + 04 + ..24), measured by an aspiration psychrometer from 0800 through 1800 & read from a register from 2000 through 0600. Rain is read at 0800. Time standard is Universal Time. Alt; Temp; means of 1/2(max + min). Press; means of observations at 12 noon. A76: No details available. A119: 1833-1979; means of 1/2(max + min), read at midday. 1901-1979; means of bi-hourly observations (true means). Reliability: compared with 071500 & 071900 for the years 1833-1980. | | | | | | | |
| 065900: | LUXEMBOURG/TOWN | LUXEMBOURG | 49.5N | 6.0E | 330m | 1841-1980 | 20 | 1878 |
| Sources: | A1, A15 | | | | | | | |
| Notes: | A1: Alt; 1951-1960 = 330m, 1961-1970 = 337m. Means of 1/3(07 + 13 + 21) local time. A15: 1838-1852; 1/3(sunrise + 12 + sunset). 1853-1875; 1/3(0730 + 1200 + 1930). 1876-1895; 1/3(0630 + 1200 + 2130). 1896-1906; means of 3 observations, no details given. 1907-1949; 1/3(07 + 13 + 21). Alt; 334m. Reliability: compared with 064470, 071900 & 071500 for the years 1838-1980. Correction Factors: Stations used: 064470 & 071900. Calculation dates: 1973-1980. Correction dates: 1838-1890 & 1951-1971. Factors: i) 1951-1971, -15 -8 -8 -12 -8 -7 -5 -7 -10 -11 -8, ii) 1838-1890, -25 -18 | | | | | | | |
| 066100: | PAYERNE /ST. AEROL. | SWITZERLAND | 46.8N | 7.0E | 491m | 1951-1970 | 10 | 1954 |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1951-1970; 46 49'N 6 57'E, alt = 491m. 1/4(0730 + 1330 + 2130 + 2130). Reliability: compared with 066450 for the years 1954-1970. | | | | | | | |
| 066300: | BERN | SWITZERLAND | 47.0N | 7.4E | | 1826-1851 | 83 | |
| Sources: | A35 | | | | | | | |
| Notes: | A35: No details available. Reliability: compared with 066450 for the years 1826-1851. | | | | | | | |
| 066450: | BASEL/BINNINGEN | SWITZERLAND | 47.6N | 7.6E | 318m | 1755-1975 | 10 | 1755 |
| Sources: | A1, A14, A35, A43, A101 | | | | | | | |
| Notes: | A1: Press; means of 1/3(0730 + 1330 + 2130). Prior to 1951 it is reduced to 0C, without correction for gravity. (G = 0.008m). Temp; means of 1/4(0730 + 1330 + 2130 + 2130). Rain is measured at 0730 & ascribed to the previous day. A14: No details available. A35: No details available. A43: Temp & Press; "Real" means, no other details given. Alt; 278m. A101: No details available. Reliability: compared with 066800 for the years 1833-1970. | | | | | | | |
| 066600: | ZURICH/TOWN/VILLE | SWITZERLAND | 47.4N | 8.6E | 569m | 1708-1980 | 20 | 1864 |
| Sources: | A1, A35, A101 | | | | | | | |
| Notes: | A1: Alt; 1864-1890 = 470m, 1891-1920 = 477m, 1921-1950 = 493m. 1921-1970; 1/4(0730 + 1330 + 2130 + 2130) 15E meridian time. In Jan 1951 the station moved from 47 23'N 08 33'E, alt = 493m, to 47 23'N 08 34'E, alt = 569m. Corrections are given on p402, vol 2. HB. Bites; 1864-1890; Astronomical Observatory of Zurichberg, alt = 470m. 1891-1920; Physics Building, alt = 477m. In 1874 a wooden thermometer shelter was introduced & shed moved slightly in Sept 1891 & Oct 1895. A35: No details available. A101: Alt; 1708-1739 = 430m, 1740-1829 = 415m, 1830-1863 = 435m, 1864-1890 = 470m. Reliability: compared with 066450 & 066800 for the years 1832-1970 & 1883-1980. Corrected for a site change in 1951. Correction Factors: Stations used: 066450 & 066800. Calculation dates: 1951-1980. Correction dates: 1864-1950. Factors: -5 -3 -6 -5 -6 -5 -5 -7 -9 -8 -5. | | | | | | | 36 |
| 066800: | SANTIS | SWITZERLAND | 47.3N | 9.3E | 2496m | 1883-1980 | 10 | 1883 |
| Sources: | A1, A101 | | | | | | | |
| Notes: | A1: 1883-1920; means of (hours not given). Alt = 2500m. 1921-1970; 1/4(0730 + 1330 + 2130 + 2130) 15E meridian time. 1951-1970; alt = 2496m. A101: No details available. Reliability: compared with 066600 & 066450 for the years 1883-1980. | | | | | | | |

067000: GENEVA SWITZERLAND 46.2N 6.2E 416m 1753-1980 20 1753
 Sources: A1, A8, A14, A35, A43

Notes: A1: Means of 1/4(0730 + 1330 + 2130 + 2130). Rain is measured at 0730 & ascribed to the previous day. 1951-1960; alt = 405m, 1961-1970 = 416m. In 1961 the station moved from 46°12'N 6°09'E to 46°14'N 6°06'E. Temps at the new site, Cointrin, are slightly lower (1.3C - 0.9C), details on p329, vol 2. A8: No details available. A14: Site; 46.3N 6.1E. alt = 416m. A35: No details available. A43: "Real" means. Alt; 405m. No other details available. Reliability: compared with 066450 for the years 1753-1970. Corrected for a move in 1961. Correction Factors: Stations used: 066450 & 066800. Calculation dates: 1961-1970. Correction dates: 1753-1960. Factors: -9 -5 -7 -9 -6 -10 -8 -9 -15 -17 -10 -4.

067050: GENEVE/TOWN/VILLE SWITZERLAND 46.1N 6.1E 405m 1961-1974 10 1961
 Sources: A1

Notes: A1: 1951-1960; 1/4(0730 + 1330 + 2130 + 2130). Alt = 405m. Reliability: compared with 067000 for the years 1961-1970.

067700: LUCANO SWITZERLAND 46.0N 9.0E 276m 1861-1980 10 1951
 Sources: A1, A14

Notes: A1: Alt; 276m. Means of 1/4(0730 + 1330 + 2130 + 2130). Rain is measured at 0730 & ascribed to the previous day. A14: Alt; 276m. No other details available. Reliability: compared with 066600 for the years 1951-1980.

070067: MONTDIDIER FRANCE 49.7N 2.6E 90m 1784-1869 83
 Sources: A43

Notes: A43: Temp; 1/3(06 + 14 + 22). Press; reduced to 0C & to sea level. Alt; 90m. Reliability: compared with 070150, 070370 & 071500 for the years 1851-1869, 1845-1869 & 1784-1869. Record shows obvious trends and a jump at about 1856.

070150: LILLE FRANCE 50.6N 3.1E 47m 1784-1973 10 1851
 Sources: A14, A43

Notes: A14: Alt; 47m. No other details available. A43: Temp; 1/2(max + min). Press; "Real" means. Alt; 23m. Also known as Laventie. Reliability: compared with 071500 for the years 1851-1897.

070210: CHERBOURG FRANCE 49.7N 1.6W 12m 1861-1973 61
 Sources: A1, A14

Notes: A1: Chantereire, alt = 12m. Means of 8 3-hourly observations, at 00, 03,...21b GMT. A14: Alt; 135m. No other details available. Reliability: uncheckable.

070240: CHERBOURG-MAUPERTUS FRANCE 49.7N 1.5W 139m 1966-1980 61
 Sources: A1

Notes: A1: Alt; 139m. Means of 8 3-hourly observations taken at 00, 03...21 GMT. Reliability: uncheckable.

070370: ROUEN FRANCE 49.4N 1.2E 155m 1845-1973 60
 Sources: A14, A35, A43

Notes: A14: Alt; 155m. No other details available. A35: No details available. A43: "Real" means. No other details available. Reliability: compared with 071500 for the years 1845-1882, but considered uncheckable.

070900: METZ FRANCE 49.1N 6.2E 186m 1799-1885 83
 Sources: A35, A101

Notes: A35: Alt; 557m. 1859-1868; anomalies from means (no years given). No other details available. A101: Alt; 186m. No other details available. Reliability: compared with 071500 & 071900 for the years 1825-1868. Record has both a trend & a jump.

071007: CHALONS FRANCE 48.9N 4.4E 89m 1806-1973 10 1806
 Sources: A14, A35, A117

Notes: Station was also known as Chalon-sur-Marne. A14: Alt; 89m. No other details available. A35: No details available. A117: Alt; 594ft. No other details available. Reliability: compared with 071500 & 071900 for the years 1806-1848.

071100: BREST/GUIPAVAS FRANCE 48.5N 4.4W 103m 1951-1980 10 1951
 Sources: A1, A35, A43

Notes: A1: Means of 8 3-hourly observations. Alt; 103m. A35: No details available. A43: "Real" means. Alt; 9m. Reliability: compared with 072220 for the years 1951-1980.

071450: TRAPPES FRANCE 48.8N 2.0E 168m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; Means of 8 3-hourly observations. 48°46'N 2°01'E, alt = 168m. 1961-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 071500 for the years 1951-1980.

071500: PARIS/LE BOURGET FRANCE 48.8N 2.5E 53m 1757-1980 10 1764
 Sources: A1, A14, A35, A43

Notes: A1: 1874-1930; means of 24 hours. Alt; 50m. 1931-1940; means of (hours not given). 1941-1950; means of 24 hours GMT. 1951-1970; means of 1/8(00 + 03 + ...21) GMT. A14: 48.9N 2.3E, alt = 62m. No other details available. A35: No details available. A43: Temp; No details given. Press; "Real" means. Alt; 49m. Reliability: compared with 070067, 070150, 071900 & 076300 for the years 1784-1869, 1851-1897, 1801-1980 & 1784-1980.

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|-------|------|-------|-----------|----|------|---------------------------------------|
| 071517: | PARIS/PARC ST MAUR | FRANCE | 48.8N | 2.3E | 77m | 1951-1960 | 10 | 1951 | Sources: A1 |
| Notes: A1: 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt; 77m. Reliability: compared with 071500 for the years 1951-1960. | | | | | | | | | |
| 071560: | PARIS / MONTSORVIS | FRANCE | 48.8N | 2.3E | 77m | 1961-1970 | 61 | | Sources: A1, A43 |
| Notes: A1: 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt; 77m. A43: "Real" means. Alt; 49m. No other details available. Reliability: uncheckable. | | | | | | | | | |
| 071800: | NANCY/ESSEY | FRANCE | 48.7N | 6.2E | 217m | 1811-1980 | 72 | 1951 | Sources: A1, A14, A35, A101 |
| Notes: A1: Alt; 217m. Means of 8 3-hourly observations, 00,03....21 GMT. A14: Alt; 212m. No other details available. A35: No details available. A101: Alt; 221m. No other details available. Reliability: compared with 071900 for the years 1841-1980. Data gap 1850-1950. | | | | | | | | | |
| 071900: | STRASBOURG/ENTZHEIM | FRANCE | 48.6N | 7.6E | 154m | 1801-1980 | 12 | 1801 | Sources: A1, A14, A35, A43, A82, A101 |
| Notes: A1: Means of 8 3-hourly observations (00, 0321 GMT). Alt; 154m. A14: Alt; 150m. No other details available. A35: No details available. A43: Temp; 1/3(06 + 13 + 21). Press; "Real" means. Alt; 144m. A82: No details available. A101: Alt; 144m. No other details available. Reliability: compared with 071500 for the years 1801-1980. Data gap 1898-1950. | | | | | | | | | |
| 072220: | NANTES | FRANCE | 47.3N | 1.6W | 27m | 1835-1980 | 10 | 1851 | Sources: A1, A14, A43 |
| Notes: A1: Alt; 1881-1950 = 37m, 1957-1970 = 27m. 1881-1950; mean of 24 hours. 1951-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Site; 47.2W 1.6W, alt = 26m. No other details available. A43: Temp & Press; "Real" means. Alt; 41m. Reliability: compared with 076300 & 075100 for the years 1851-1980. | | | | | | | | | |
| 072300: | ANGERS | FRANCE | 47.5N | .5W | | 1851-1900 | 10 | 1851 | Sources: A43 |
| Notes: Station was also known as La Baumette. A43: Means of 1/2(max + min). No other details available. Reliability: compared with 072497 for the years 1851-1897. | | | | | | | | | |
| 072497: | VENDOME | FRANCE | 47.8N | 1.1E | 79m | 1851-1973 | 10 | 1851 | Sources: A14, A35, A43 |
| Notes: A14: Alt; 79m. No other details available. A35: No details available. A43: Means of 1/2(max + min). No other details available. Reliability: compared with 072300 for the years 1851-1897. | | | | | | | | | |
| 072550: | BOURGES | FRANCE | 47.1N | 2.4E | 162m | 1851-1980 | 82 | | Sources: A1, A43 |
| Notes: A1: means of 8 3-hourly observations. 1961-1970; alt = 166m. A43: Means of 1/2(max + min). Reliability: compared with 072300, 072497, 072220, 075100 & 074800 for the years 1851-1900, 1851-1897, 1851-1980, 1851-1980 & 1851-1980. Data gap 1898-1950. Record shows a trend prior to 1860 & may show a cooling trend 1951-1980. | | | | | | | | | |
| 072800: | DIJON | FRANCE | 47.3N | 5.1E | 227m | 1831-1980 | 72 | 1951 | Sources: A1, A14, A35 |
| Notes: A1: 1951-1960; alt = 225m. 1961-1970 = 227m. Means of 8 3-hourly observations. Rain is recorded at 06 GMT. A14: Alt; 238m. No other details available. A35: No details available. Reliability: compared with 074800 for the years 1851-1980. Data gaps 1849-1850 & 1854-1950. | | | | | | | | | |
| 073907: | SAINTE BERNARD | FRANCE | 45.8N | 6.1E | 2070m | 1818-1890 | 60 | | Sources: A35, A101 |
| Notes: A35: Alt; 2338m. 1858-1868; anomalies from means (no years given). No other details available. A101: Alt; 2070m. No other details available. Reliability: uncheckable. | | | | | | | | | |
| 074340: | LIMOGES/BELLEGARDE | FRANCE | 45.9N | 1.2E | 403m | 1961-1980 | 10 | 1961 | Sources: A1 |
| Notes: A1: 1961-1970; 1/8(00 + 03 +21) GMT. No other details available. Reliability: compared with 074350 for the years 1961-1972. | | | | | | | | | |
| 074350: | LIMOGES | FRANCE | 45.8N | 1.3E | 284m | 1860-1973 | 10 | 1951 | Sources: A1, A14 |
| Notes: A14: Alt; 284m. No other details available. A1: 1951-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. 1951-1960; alt = 284m. 1961-1970 = 402m. Reliability: compared with 072800 for the years 1951-1972. | | | | | | | | | |
| 074600: | CLERMONT FERRAND | FRANCE | 45.8N | 3.1E | 403m | 1856-1973 | 63 | | Sources: A14, A35, A43 |
| Notes: A14: Alt; 403m. No other details available. A35: Anomalies from mean (no years given). A43: "Real" means. Instrument correction of +0.24mm is not applied. Alt; 388m. Reliability: uncheckable. | | | | | | | | | |
| 074700: | LE PUY | FRANCE | 45.0N | 3.9E | 714m | 1849-1973 | 63 | | Sources: A14, A35 |
| Notes: A14: Alt; 714m. No other details available. A35: Anomalies from mean (no years given). Reliability: uncheckable. | | | | | | | | | |

074800: LYON FRANCE 45.7N 4.7E 201m 1841-1980 10 1851
 Sources: A1, A8, A14, A35, A43, A117

Notes: Station was also known as Bron. A1: Alt; 1841-1920 = 199m, 1921-1930 = 196m, 1931-1950 = 198m, 1951-1970 = 201m. 1921-1950; 1/2(daily max + daily min). 1951-1970; means of 8 3-hourly observations, GMT. A8: No details available. A14: Alt; 290m. No other details available. A35: No details available. A43: "Real" means. Alt; 174m. No other details available. A117: Alt; 598ft. No other details available. Reliability: compared with 076300, 076500 & 072550 for the years 1851-1980, 1951-1980 & 1851-1980.

075100: BORDEAUX/MERIGNAC FRANCE 44.8N .7W 51m 1842-1980 10 1851
 Sources: A1, A14, A35, A43

Notes: A1: means of 8 3-hourly observations. Alt; 1951-1955 = 52m, site = 44 51'N 00 42'W, 1955-1959 = 49m, 1959-1960 = 51m, site = 44 50'N 00 42'W. A14: Alt; 13m. No other details available. A35: 1860-1866; anomalies from mean (years not known). No other details available. A43: Alt; 74m. "Real" means. Probable instrument correction is +0.33mm, not applied. Reliability: compared with 072220 for the years 1851-1980.

076300: TOULOUSE/BLAGNAC FRANCE 43.6N 1.4E 152m 1784-1980 10 1839
 Sources: A1, A14, A35, A43

Notes: A1: Means of 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt; 1951-1960 = 152m, 1961-1970 = 153m. A14: No details available. A35: No details available. A43: "Real" means. Alt; 194m. Reliability: compared with 076500, 072220 & 071500 for the years 1838-1980, 1851-1980 & 1784-1980. Data gaps 1788-1817, 1825-1838 & 1901-1950.

076430: MONTPELLIER FRANCE 43.6N 3.9E 81m 1827-1973 10 1827
 Sources: A14, A35, A43

Notes: A14: Alt; 81m. No other details available. A35: No details available. A43: Means of 1/2(max + min). No other details available. Reliability: compared with 076900 & 076500 for the years 1827-1897 & 1838-1897.

076450: NIMES/COURBESSAC FRANCE 43.9N 4.4E 60m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; Means of 8 3-hourly observations. A method of partial interpolation was used in Feb 1954. 43 52'N 4 24'E, alt = 60m. 1961-1970; 1/8(00 + 03 + ...21) GMT. Alt; 62m. Reliability: compared with 076300, 076500 & 074800 for the years 1951-1980.

076480: SALON FRANCE 43.6N 5.1E 61m 1951-1970 61
 Sources: A1

Notes: A1: 1951-1960; 43 37'N 5 06'E, alt = 60m. Means of 8 3-hourly observations. 1961-1970; 1/8(00 + 03 + ...21) GMT. 43 36'N 5 06'E, alt = 60m. Reliability: uncheckable.

076500: MARSEILLE/MARIGNANE FRANCE 43.3N 5.4E 8m 1749-1980 10 1838
 Sources: A1, A14, A35, A43

Notes: A1: 1871-1920; means of 8 3-hourly observations. Alt = 75m. 1921-1950; 1/2(daily max + daily min). A14: 1921-1950 = 11m, 1951-1960 = 3m, 1961-1970 = 8m. 1951-1970; means of 8 3-hourly observations, (00, 03 ... 21 GMT). A14: Alt; 75m. No other details available. A35: No details available. A43: Temp; means of 1/2(max + min). Press; "Real" means. Alt; 75m. No other details available. Reliability: compared with 076300 for the years 1838-1980.

076600: TOULON FRANCE 43.1N 5.9E 27m 1951-1970 10 1951
 Sources: A1

Notes: A1: 1951-1960; Means of 8 3-hourly observations. 43 06'N 5 55'E, alt = 27m. 1961-1970; 1/8(00 + 03 + ...21) GMT. 43 06'N 5 56'E. Reliability: compared with 076300 for the years 1951-1970.

076900: NICE/COTE DAZUR FRANCE 43.7N 7.2E 10m 1806-1980 72 1951
 Sources: A1, A35, A43

Notes: A1: Alt; 10m. Means of 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A35: No details available. A43: Alt; 340m. "Real" means. No other details available. Reliability: compared with 076300 for the years 1806-1980. Data gaps 1826-1828, 1832-1854 & 1857-1950.

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077470: PERPIGNAN FRANCE 42.7N 2.9E 48m 1836-1980 10 1836
 Sources: A1, A14, A18, A43

Notes: A1: Means of 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt; 48m. A14: Alt; 43m. No other details available. A18: Means of 1/2(max + min). A43: Press; "Real" means. Temp; 1/2(max + min). Alt; 32m. Reliability: compared with 076300 & 076500 for the years 1836-1980 & 1838-1980. Some evidence of warming 1950-1980, could be urban warming.

077610: AJACCIO/CAMPO D. ORO FRANCE 41.9N 8.8E 5m 1855-1980 10 1951
 Sources: A1, A81

Notes: A1: Temp; means of 8 3-hourly observations. Times not given for 1951-1960. From 1960 times are 00, 03,...,21GMT. Alt; 1951-1960 = 5m, 1961-1970 = 9m. A81: Observations come from several different sites, but no details are available; 1855-1873 from P.C., 1874-1895 from a variety of sites & 1896-1973 from Corse. Reliability: compared with 077470 for the years 1951-1980.

080010: LA CORUNA SPAIN 43.4N 8.4W 67m 1877-1980 10 1951
 Sources: A1, A43

Notes: A1: Alt; 1950-1960 = 58m, 1961-1970 = 67m. Means of 1/2(mean max + mean min). A43: No details available. Reliability: compared with 081410 & 081610 for the years 1951-1980.

080150: OVIEDO SPAIN 43.2N 5.5W 244m 1851-1948 62
Sources: A29, A35, A41, A43, A130

Notes: A29: No details available. A35: No details available. A41: Alt; 244m. Means of 1/2(max + min). A43: No details available. A130: 1941-1948; observations taken at La Catedral. No other details available. Reliability: uncheckable due to many large data gaps.

080160: GIJON SPAIN 43.5N 5.7W 1922-1950 80
Sources: A125

Notes: A125: Means of 1/2(max + min). No other details available. Reliability: compared with 080420 & 082020 for the years 1923-1948. Some evidence for a trend 1926-1934. Data gap 1936-1938.

080230: SANTANDER SPAIN 43.5N 3.8W 68m 1877-1970 10 1951
Sources: A1, A43

Notes: A1: Means of 1/2(mean max + mean min). Alt; 1951-1960 = 66m, 1961-1970 = 64m. A43: No details available. Reliability: compared with 080530, 081600 & 082220 for the years 1951-1970.

080250: BILBAO SPAIN 43.3N 2.8W 16m 1861-1900 80
Sources: A41, A43

Notes: A41: Alt; 16m. Means of 1/2(max + min). A43: No details available. Reliability: compared with 081800 & 084180 for the years 1866-1900. Record has a definite trend & a jump.

080270: SAN SEBASTION SPAIN 43.3N 2.0W 25m 1877-1948 82
Sources: A41, A43, A130

Notes: A41: Alt; 25m. Means of 1/2(max + min). A43: No details available. A130: Observations taken at Igeldo. No other details available. Reliability: compared with 081800 & 084180 for the years 1878-1948. Data gaps 1901-1925 & 1935-1939.

080420: SANTIAGO/COMPOSTELA SPAIN 42.8N 8.1W 1849-1948 12 1849
Sources: A35, A43, A130

Notes: A35: No details available. A43: No details available. A130: 1947-1948; observations taken at the University. No other details available. Reliability: compared with 080150 for the years 1851-1948. Data gaps 1854-1925 & 1935-1939.

080530: PONFERRADA SPAIN 42.6N 6.6W 544m 1951-1970 10 1951
Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 42 34'N 6 35'W, alt = 543m. 1961-1970; alt = 544m. Reliability: compared with 080230, 082210 & 082220 for the years 1951-1970.

080750: BURGOS/VILLAFRIA SPAIN 42.4N 3.7W 891m 1862-1970 12 1951
Sources: A1, A41, A43, A130

Notes: A1: Alt; 891m. Means of 1/2(mean max + mean min). A41: Alt; 860m. No other details available. A43: Means of 1/2(max + min). No other details available. A130: Observations taken at the Institute. No other details available. Reliability: compared with 081410 & 082220 for the years 1866-1970. Data gaps 1901-1925, 1935-1939 & 1945-1950.

081410: VALLADOLID SPAIN 41.7N 4.7W 715m 1861-1980 12 1866
Sources: A1, A41, A43, A130

Notes: A1: Alt; 1951-1960 = 695m, 1961-1970 = 715m. Means of 1/2(mean max + mean min). A41: Alt; 760m. No other details available. A43: No details available. A130: No details available. Reliability: compared with 082220 & 085360 for the years 1866-1980. Data gaps 1900-1925 & 1935-1939. Very slight evidence of trends in this record.

081590: ZARAGOZA SPAIN 41.8N 1.1W 1953-1959 61
Sources: A1

Notes: A1: 1953-1959; 1/2(max + min). 41 50'N 1 05'W, alt = 252m. Reliability: uncheckable.

081600: ZARAGOZA/SANJURJO SPAIN 41.7N 1.0W 258m 1951-1970 10 1951
Sources: A1, A43

Notes: A1: Means of 1/2(mean max + mean min). Alt; 258m. A43: No details available. Reliability: compared with 082210 & 082220 for the years 1951-1970.

081610: ZARAGOZA SPAIN 41.7N .9W 233m 1861-1980 10 1951
Sources: A1, A43

Notes: A1: Alt; 1951-1960 = 237m, 1961-1970 = 233m. Means of 1/2(mean max + mean min). A43: No details available. Reliability: compared with 080010 & 081410 for the years 1951-1980.

081800: BARCELONA SPAIN 41.4N 2.2E 95m 1835-1980 72 1926
Sources: A1, A35, A41, A43, A130

Notes: A1: 1951-1960; alt = 93m. Temp; means of 1/2(mean max + mean min). Press; Values are reduced to 0C. The formula used for reduction of pressure to sea level is $P_0 = P_{se}(g_0/RT_0)$, applied observation by observation. The mean of these values is then obtained. 1961-1970; alt = 95m. A35: No details available. A41: No details available. A43: Press; Reduced to altitude of 43m. 1/2(09 + 15). A130: 1926-1931; University, 1932-1939; Officina Regional, 1940-1942; Centro Meteorologico, 1943-1948; Observatory. No other details available. Reliability: compared with 076500 for the years 1838-1980. Record has numerous data gaps but is certainly inhomogeneous prior to 1900.

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| 082020: | SALAMANCA | SPAIN | 41.0N | 5.7W | 814m | 1861-1948 | 12 | 1866 | | | | |
| Sources: | A41, A43, A130 | | | | | | | | | | | |
| Notes: A41: Alt; 814m. Means of 1/2(max + min). A43: No details available. A130: No details available. Reliability: compared with 082220 for the years 1866-1948. Data gaps 1900-1925 & 1935-1939. | | | | | | | | | | | | |
| 082210: | MADRID/BARAJAS | SPAIN | 40.5N | 3.6W | 606m | 1951-1970 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 40°28'N 3°34'W, alt = 605m. 1961-1970; alt = 582m. Reliability: compared with 081600, 082220 & 080530 for the years 1951-1970. | | | | | | | | | | | | |
| 082220: | MADRID/RETIRO | SPAIN | 40.4N | 3.7W | 657m | 1840-1980 | 12 | 1851 | | | | |
| Sources: | A1, A35, A43 | | | | | | | | | | | |
| Notes: A1: 1860-1920; means of 7 3-hourly observations. Alt = 655m. 1921-1930; 1/3(07 + 13 + 18) GMT. 1931-1940; 1/2(max + min). Alt = 667m. 1951-1960; Alt = 660m. 1961-1970 = 667m. A35: 1856-1859; anomalies from mean (no years given). No other details available. A43: No details available. Reliability: compared with 076500 & 085360 for the years 1940-1980 & 1854-1980. Data gap 1843-1853. | | | | | | | | | | | | |
| 082800: | ALBACETE | SPAIN | 39.0N | 1.8E | 43m | 1866-1948 | 82 | | | | | |
| Sources: | A41, A43, A130 | | | | | | | | | | | |
| Notes: A41: Alt; 43m. Means of 1/2(max + min). A43: No details available. A130: 1943-1948; observations taken at airport. No other details available. Reliability: compared with 076500, 076300 & 082220 for the years 1866-1948. Data gaps 1901-1925 & 1934-1942. Pre-1900 record shows distinct trends. | | | | | | | | | | | | |
| 082850: | VALENCIA | SPAIN | 39.5N | .4W | 11m | 1861-1970 | 10 | 1951 | | | | |
| Sources: | A1, A43 | | | | | | | | | | | |
| Notes: Station was also known as Viveros. A1: Alt; 1951-1960 = 13m. 1961-1970 = 11m. Means of 1/2(mean max + mean min). A43: No details available. Reliability: compared with 084880 & 076500 for the years 1951-1970. | | | | | | | | | | | | |
| 083010: | PALMA/SON BONET | BALEARIC IS. | 39.5N | 2.6E | 45m | 1866-1980 | 80 | | | | | |
| Sources: | A1, A43, A130 | | | | | | | | | | | |
| Notes: A1: 1866-1920; 1/2(daily max + daily min). 1921-1925; 1/3(07 + 13 + 18) GMT. Alt; 23m. 1926-1970; 1/2(max + min). Alt; 1926-1950 = 28m, 1951-1960 = 43m, 1961-1970 = 28m. A43: No details available. A130: No details available. Reliability: compared with 083020 & 081800 for the years 1901-1970. | | | | | | | | | | | | |
| 083020: | PALMA/SON BONET | BALEARIC IS. | 39.6N | 2.7E | 45m | 1861-1970 | 80 | | | | | |
| Sources: | A1, A43 | | | | | | | | | | | |
| Notes: A1: 1866-1921; Means of 1/2(max + min). 1921-1925; 1/3(07 + 13 + 18) GMT. Alt; 23m. 1926-1970; 1/2(max + min). 1951-1960; alt = 43m, 1961-1970 = 28m. A43: No details available. Reliability: compared with 076500, 083010 & 081800 for the years 1901-1970. Record has many well-defined jumps & trends. | | | | | | | | | | | | |
| 083060: | SANTA CRUZ/FLORES | PORTUGAL | 39.5N | 31.1W | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 39°27'N 31°08'W, alt = 40m. Reliability: uncheckable. | | | | | | | | | | | | |
| 083070: | POLLENZA | BALEARIC IS. | 39.9N | 3.1E | 2m | 1951-1970 | 80 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 39°54'N 3°06'E, alt = 2m. 1961-1970; alt = 12m. Reliability: compared with 083140 & 081800 for the years 1951-1970. Record has a definite trend & a jump. | | | | | | | | | | | | |
| 083140: | MANON/SAN LUIS | BALEARIC IS. | 39.9N | 4.3E | 59m | 1865-1980 | 82 | | | | | |
| Sources: | A1, A43, A130 | | | | | | | | | | | |
| Notes: A1: Alt; 1951-1960 = 47m, 1961-1970 = 82m. Means of 1/2(mean max + mean min). A43: Temp; 1/2(max + min). Observations are also taken at same time as Press; 1890-1891; 1/2(09 + 15). 1892-1893; 1/3(09 + 15 + 21). 1896-1910; 1/2(09 + 15). Alt; 43m. 1911-1914; 39°53'N 1°57'E of Paris, alt = 43m. A130: No details available. Reliability: compared with 081800 & 076500 for the years 1890-1980. Data gaps 1911-1925 & 1935-1941. | | | | | | | | | | | | |
| 083290: | BADAJOZ | SPAIN | 38.9N | 6.8W | 192m | 1951-1980 | 80 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; Alt = 185m. Means of 1/2(mean max + mean min). Reliability: compared with 083900 & 082220 for the years 1951-1980. Record shows definite warming and cooling trends. | | | | | | | | | | | | |
| 083300: | BADAJOZ | SPAIN | 38.9N | 6.8W | 192m | 1866-1948 | 12 | 1866 | | | | |
| Sources: | A1, A41, A43, A130 | | | | | | | | | | | |
| Notes: A41: Alt; 69m. No other details available. A43: No details available. A130: Observations taken at Institute. No other details available. A1: Means of 1/2(max + min). 1951-1960; alt = 185m. 1961-1970; alt = 192m. Reliability: compared with 082220 for the years 1866-1948. Data gaps 1900-1925 & 1935-1939. | | | | | | | | | | | | |

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| 083400: | PONTA DELGADA | AZORES | 37.8N | 25.7W | 1961-1970 | 61 | | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | |
| 083590: | ALICANTE | SPAIN | 38.4N | .5W | 82m | 1861-1980 | 80 | | | | | | | | |
| Sources: | A1, A43, A130 | | | | | | | | | | | | | | |
| Notes: A1: Alt; 1951-1960 = 81m, 1961-1970 = 92m. Temp; means of 1/2(max + min). A43: No details available. A130: 1926-1939; observations taken at Institute, 1940-1948; at Ciudad Jardin. No other details available. Reliability: compared with 083900 & 084880 for the years 1951-1980. Record has a definite trend. | | | | | | | | | | | | | | | |
| 083900: | SEVILLA/TABLADA | SPAIN | 37.4N | 6.0W | 13m | 1862-1980 | 10 | 1951 | | | | | | | |
| Sources: | A1, A43 | | | | | | | | | | | | | | |
| Notes: A1: Means of 1/2(mean max + mean min). Alt; 1951-1960 = 8m, 1961-1970 = 14m. A43: No details available. Reliability: compared with 082220 & 081410 for the years 1951-1980. | | | | | | | | | | | | | | | |
| 084180: | SCORIA | SPAIN | 41.7N | 1.2E | 106m | 1861-1948 | 12 | 1866 | | | | | | | |
| Sources: | A41, A43, A130 | | | | | | | | | | | | | | |
| Notes: A41: Alt; 106m. No other details available. A43: No details available. A130: No details available. Reliability: compared with 082220 for the years 1866-1948. Data gaps 1901-1926 & 1935-1939. | | | | | | | | | | | | | | | |
| 084190: | GRANADA | SPAIN | 37.2N | 3.6W | 680m | 1861-1948 | 82 | | | | | | | | |
| Sources: | A41, A43, A130 | | | | | | | | | | | | | | |
| Notes: A41: Alt; 680m. Means of 1/2(max + min). A43: No details available. A130: 1926-1940; observations taken at the University, 1941-1948; taken at La Cartuja. No other details available. Reliability: compared with 076500 & 076300 for the years 1866-1948. Data gaps 1886-1897, 1901-1925 & 1935-1940. Definite trends in pre-1900 record. | | | | | | | | | | | | | | | |
| 084530: | SAN FERNANDO | SPAIN | 36.3N | 6.1W | | 1850-1895 | 10 | 1850 | | | | | | | |
| Sources: | A29, A43 | | | | | | | | | | | | | | |
| Notes: A29: 1850-Mar 1855; 1/4(09 + 12 + 18 + 21). Apr 1855-Nov 1866; 1/6(06 + 09 + 12 + 15 + 18 + 21). Dec 1866-1885; 1/2(max + min). A43: No details available. Reliability: compared with 076500 & 076300 for the years 1850-1885. | | | | | | | | | | | | | | | |
| 084880: | ALMERIA | SPAIN | 36.8N | 2.5W | 7m | 1951-1980 | 10 | 1951 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 1/2(max + min). 36 50'N 2 28'W, alt = 6m. Reliability: compared with 084950 for the years 1951-1980. | | | | | | | | | | | | | | | |
| 084950: | NORTH FRONT | GIBRALTAR | 36.2N | 5.4W | 3m | 1951-1980 | 10 | 1951 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). No other details available. Reliability: compared with 084880 for the years 1951-1980. | | | | | | | | | | | | | | | |
| 085030: | CORVO | PORTUGAL | 39.7N | 31.1W | | 1961-1970 | 61 | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 39 40'N 31 07'W, alt = 29m. Reliability: uncheckable. | | | | | | | | | | | | | | | |
| 085050: | HORTA | AZORES | 38.5N | 28.7W | 62m | 1902-1980 | 70 | 1920 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1902-1914; alt = 31m, 1915-1930; 64m, 1902-1907; 1/4(09 + 12 + 15 + 21) corrected to means of 24 hours, corrections given on p81, vol 79. 1908-1930; means of 24 hours taken from a thermograph compared with a thermometer 5 times a day. 38 32'N 28 38'W, 1931-1946; means of 24 hours. Alt = 65m. In Jan 1915 observatory moved to town outskirts from 28m to 61m. 1947-1950; 1/4(12 + 24 + max + min) GMT, 1951-1960; 1/2(max + min). 38 31'N 28 38'W, alt = 62m, 1961-1970; alt = 60m. Reliability: compared with 085120, 085210 & 085360 for the years 1902-1980. Record shows very strong trends. | | | | | | | | | | | | | | | |
| 085090: | LAJES | AZORES | 38.8N | 27.1W | 54m | 1951-1970 | 81 | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 38 45'N 27 05'W, alt = 54m. Reliability: compared with 085120, 085210 & 085360 for the years 1951-1970. Record seems to have two trends. | | | | | | | | | | | | | | | |
| 085120: | PONTA DELGADA | AZORES | 37.7N | 25.7W | 36m | 1865-1980 | 70 | 1865 | | | | | | | |
| Sources: | A1, A8, A29, A42, A52 | | | | | | | | | | | | | | |
| Notes: A1: 1894-1907; 1/4(09 + 12 + 15 + 21), corrected to the means of 24 hourly readings, by corrections given on p82, vol 79. 1908-1950; means of 24 hourly readings, from a thermograph, compared with a standard thermometer 3 times a day. Alt; 1894-1930 = 22m, 1931-1950 = 37m. In Jan 1937 the station moved from 37 44'N 25 40'W to 37 45'N 25 40'W, alt = 36m. 1951-1960; 1/2(max + min). 1961-1970; 37 45'N 25 43'W, alt = 67m. A8: No details available. A29: No details available. A42: Alt = 20m. No other details available. A52: Alt = 20m. No other details available. Reliability: compared with 085210 for the years 1865-1980. | | | | | | | | | | | | | | | |
| 085150: | SANTA MARIA | PORTUGAL | 37.0N | 25.2W | 100m | 1961-1979 | 61 | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 36 58'N 25 10'W, alt = 100m. Reliability: uncheckable. | | | | | | | | | | | | | | | |

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| 085210: | FUNCHAL | MADEIRA | 32.6N | 16.9W | 56m | 1864-1980 | 70 | 1900 | | | | |
| Sources: | A1, A35, A42, A52 | | | | | | | | | | | |
| Notes: A1: 1880-1930; Mean temps are an approximation to the mean of 24 hourly readings given by 1/4(09 + 21 + max + min). Alt = 25m. 1931-1940; 1/4(1008 + 2208 + max + min). 1941-1950; means of 24 hours GMT. On Jan 1 1950 the observatory was transferred to the town outskirts. A thermometer screen & rain gauge were maintained at the former site for comparison. 1951-1960; 1/2(max + min). Alt = 56m. 1961-1970; 32 41'N 16 46'W, alt = 50m. A35: No details available. A42: Alt; 25m. No other details available. A52: Alt = 25m. No other details available. Reliability: compared with 085120 for the years 1865-1980. Suspect prior to 1900. | | | | | | | | | | | | |
| 085240: | PORTO SANTO | PORTUGAL | 33.1N | 16.3W | 82m | 1940-1970 | 10 | 1940 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: Alt; 82m. Means of 1/2(max + min). Reliability: compared with 085050 & 085120 for the years 1940-1970. | | | | | | | | | | | | |
| 085300: | CABO CARVOEIRO | PORTUGAL | 39.4N | 9.4W | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 39 21'N 9 24'W, alt = 34m. Reliability: uncheckable. | | | | | | | | | | | | |
| 085360: | LISBON | PORTUGAL | 38.7N | 9.1W | 95m | 1836-1980 | 70 | 1864 | | | | |
| Sources: | A1, A35, A42, A43, A80 | | | | | | | | | | | |
| Notes: Station was also known as Portela. A1: Alt; 1864-1960 = 95m, 1961-1970 = 110m. 1864-1960; means of 24 hours, GMT. In 1931 the rain gauge was moved, mean values of ratios for the 2 sites are given on p36, vol "1941-1950". 1961-1970; 1/2(max + min). A35: No details available. A42 & A43: Press; 1856-1863; means of 24 hours. 1864-1875; 1/4(09 + 12 + 15 + 21). Temp; 1856-1863; means of 24 hours. 1864-1875; 1/2(max + min). Alt; 102m. A80: No details available. Reliability: compared with 085210, 085120 & 082220 for the years 1864-1980, 1865-1980 & 1854-1980. | | | | | | | | | | | | |
| 085377: | SINTRA/GRANJA | PORTUGAL | 38.8N | 9.3W | 133m | 1939-1960 | 62 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1939-1960; 38 50'N 9 20'W, alt = 133m. 1/2(max + min). Reliability: uncheckable. | | | | | | | | | | | | |
| 085380: | SAGRES | PORTUGAL | 37.0N | 9.0W | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 36 59'N 8 57'W, alt = 41m. Reliability: uncheckable. | | | | | | | | | | | | |
| 085430: | VIANA DO CASTELO | PORTUGAL | 41.7N | 8.8W | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 41 41'N 8 50'W, alt = 10m. Reliability: uncheckable. | | | | | | | | | | | | |
| 085450: | PORTO | PORTUGAL | 41.2N | 8.7W | 70m | 1862-1980 | 12 | 1961 | | | | |
| Sources: | A1, A42, A43, A52, A106 | | | | | | | | | | | |
| Notes: Station was also known as Pedras Rubas. A1: Alt; 73m. Means of 1/2(max + min). A42: Alt; 85m. Means of 1/2(max + min). A43: No details available. A52: Alt; 85m. Means of 1/2(max + min). A106: Normal values, /CLINO/, only. No other details available. Reliability: compared with 085360 for the years 1863-1980. Data gap 1901-1960. | | | | | | | | | | | | |
| 085490: | COIMBRA | PORTUGAL | 40.2N | 8.4W | 141m | 1866-1975 | 12 | 1866 | | | | |
| Sources: | A1, A20, A21, A43, A106 | | | | | | | | | | | |
| Notes: A1: Alt; 140m. Means of 1/2(mean max + mean min). A20: Alt; 140m. No other details available. A21: Alt; 140m. No other details available. A43: No details available. A106: Normal values, /CLINO/, only. No other details available. Reliability: compared with 085360 for the years 1866-1975. Data gap 1941-1960. | | | | | | | | | | | | |
| 085540: | FARO | PORTUGAL | 37.0N | 8.0W | 8m | 1961-1975 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 37 01'N 7 58'W, alt = 9m. Reliability: uncheckable. | | | | | | | | | | | | |
| 085570: | EVORA | PORTUGAL | 38.6N | 7.9W | | 1869-1970 | 61 | | | | | |
| Sources: | A1, A43 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). Alt = 309m. A43: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 085607: | GUARDA | PORTUGAL | 40.5N | 7.3W | 85m | 1863-1930 | 82 | | | | | |
| Sources: | A42, A43, A52, A71 | | | | | | | | | | | |
| Notes: A42: Alt; 85m. Means of 1/2(max + min). A43: No details available. A52: Alt; 85m. Means of 1/2(max + min). A71: Means of 1/4(09 + 21 + max + min). No other details available. Reliability: compared with 082220 & 085360 for the years 1863-1930. Data gap 1921-1929. Record shows trends both prior to & after 1900. | | | | | | | | | | | | |
| 085620: | BEJA | PORTUGAL | 38.0N | 7.9W | 246m | 1961-1975 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 38 01'N 7 52'W, alt = 247m. Reliability: uncheckable. | | | | | | | | | | | | |

085660: VILA REAL PORTUGAL 41.3N 7.7W 1961-1970 61
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 41 19'N 7 44'W, alt = 482m. Reliability: uncheckable.

085680: PENHAS DOURADAS PORTUGAL 40.4N 7.6W 1380m 1961-1975 61
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 40 25'N 7 33'W, alt = 1380m. Reliability: uncheckable.

085707: CAMPO MAIOR PORTUGAL 39.0N 7.0W 288m 1861-1930 82
 Sources: A42, A43, A52, A71
 Notes: A42: Alt; 288m. Means of 1/2(max + min). A43: No details available. A52: Alt; 288m. Means of 1/2(max + min). A71: Means of 1/4(09 + 21 + max + min). Reliability: compared with 082220, 085360 & 085607 for the years 1863-1930. Data gap 1882-1897. Record shows trends both prior to & after 1900.

085710: PORTALEGRE PORTUGAL 39.3N 7.4W 1961-1970 61
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 39 17'N 7 25'W, alt = 590m. Reliability: uncheckable.

085750: BRAGANCA PORTUGAL 41.8N 6.8W 691m 1961-1975 61
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 41 49'N 6 46'W, alt = 692m. Reliability: uncheckable.

085830: MINDELLO CAPE VERDE I 16.9N 25.1W 16m 1884-1961 10 1884
 Sources: A1, A52, A71
 Notes: A1: 1921-1930; 1/4(09 + 21 + max + min) local time. Alt; 11m. 1931-1950; 1/4(11 + 23 + max + min) GMT. Alt; 16m. 1951-1960; 1/2(mean max + mean min). Alt; 15m. A71: Press; means of 1/3(09 + 15 + 21), reduced to 0C. Temp; 1/4(09 + 21 + max + min). A52: Alt; 11m. Means of 1/2(max + min). Reliability: Compared with 085890 & 085940 for the years 1904-1960 & 1951-1961.

085890: PRAIA CAPE VERDE I 14.9N 23.5W 35m 1904-1960 10 1904
 Sources: A1, A71
 Notes: A71: Also known as Sao Thiago. Press; 1/3(09 + 15 + 21). Temp; 1/4(09 + 21 + max + min). A1: 1921-1930; 1/4(09 + 21 + max + min) local time. 1921-1950; alt = 34m, 1951-1960 = 35m. 1931-1950; 1/4(11 + 23 + max + min) GMT. In 1941 station moved from 14 54'N 23 31'W to 14 55'N 23 31'W. 1951-1960; 1/2(max + min). Reliability: compared with 085830 & 085940 for the years 1904-1960 & 1951-1960.

085940: SAL CAPE VERDE I 16.7N 23.0W 55m 1951-1975 10 1951
 Sources: A1
 Notes: A1: 1/2(max + min). 1951-1960; 16 44'N 22 57'W, alt = 55m. 1961-1970; 16 45'N 22 57'W, alt = 54m. Reliability: compared with 085830 & 085890 for the years 1951-1961 & 1951-1960.

085997: SERRO DO PILAR PORTUGAL 1901-1930 10 1901
 Sources: A71
 Notes: A71: Means of 24 hourly observations. No other details available. Reliability: compared with 085890 for the years 1904-1930.

090360: MAGDEBURG E.GERMANY 52.1N 11.6E 1961-1970 61
 Sources: A1
 Notes: A1: 1961; 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable.

090916: PUTBUS E.GERMANY 54.7N 13.4E 42m 1854-1977 63
 Sources: A14, A35
 Notes: A14: Alt; 42m. No other details available. A35: Anomalies from mean (no years given). Reliability: uncheckable. 44

090917: ROSTOCK E.GERMANY 54.1N 12.2E 1832-1868 10 1832
 Sources: A35
 Notes: A35: 1859-1868; Anomalies from mean (no years given). No other details available. Reliability: compared with 090927 & 094700 for the years 1832-1863 & 1832-1868.

090927: BYLT E.GERMANY 54.1N 12.7E 650m 1830-1888 10 1830
 Sources: A35, A101
 Notes: A35: 1859-1863; Anomalies from mean (no years given). No other details available. A101: Alt; 1862-1884 = 439m, 1882-1888 = 650m. No other details available. Reliability: compared with 090917 & 103840 for the years 1832-1863 & 1830-1863.

091700: WARNEMUNDE E.GERMANY 54.2N 12.1E 4m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1951-1952; 1/4(01 + 07 + 13 + 19) local time. 54 11'N 12 05'E, alt = 10m. 1953-1960; alt = 13m. 1961; alt = 10m. 1962-1965; 1/4(00 + 06 + 12 + 18) GMT. 1966-1970; 1/8(00 + 03 + 06 + ..21) GMT. Reliability: compared with 091840 & 103840 for the years 1951-1980.

091840: GRIEFSWALD/WIECK E.GERMANY 54.1N 13.5E 1m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951; 54 06'N 13 23'E, alt = 10m. 1952-1960; 54 06'N 13 27'E, alt = 3m. 1961-Sept 1964; alt = 1m. Oct 1964-1970; alt = 2m. 1951-1961; 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 103840 & 091700 for the years 1951-1980.

092790: NEUSTRELITZ E.GERMANY 53.4N 13.1E 64m 1951-1976 10 1951
Sources: A1

Notes: A1: 1951-1954; 53 21'N 13 05'E, alt = 65m. 1/4(01 + 07 + 13 + 19) local time. 1955-1960; alt = 70m. 1961; alt = 66m. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 103840 & 091840 for the years 1951-1976.

093610: MAGDEBURG E.GERMANY 52.1N 11.6E 79m 1951-1976 10 1951
Sources: A1

Notes: A1: 1951-1952; 52 06'N 11 35'E, alt = 82m. 1953-1961; alt = 85m. 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + 06 + ...21) GMT. Reliability: compared with 093930 & 094530 for the years 1951-1976.

093790: POTSDAM E.GERMANY 52.4N 13.1E 85m 1893-1980 10 1893
Sources: A1

Notes: A1: 1893-1940; 1/4(07 + 14 + 21 + 21). Alt; 80m. 1941-1950; 1/4(07 + 13 + 21 + 21) 158 meridian time. Alt; 85m. 1951-1961; 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 52 23'N 13 4'E, alt = 81m. Reliability: compared with 103810 & 103840 for the years 1893-1970 & 1893-1980.

093930: LINDENBERG E.GERMANY 52.2N 14.1E 98m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time. 52 13'N 14 07'E, alt = 106m. Reliability: compared with 093610 & 094530 for the years 1951-1976.

093980: FRANKFURT AMODER E.GERMANY 52.3N 14.6E 48m 1848-1976 63
Sources: A14, A35

Notes: A14: Alt; 48m. No other details available. A35: 1859-1868; anomalies from mean (years not given). No other details available. Reliability: uncheckable.

094530: BROCKEN E.GERMANY 51.8N 10.6E 1142m 1951-1976 10 1951
Sources: A1

Notes: A1: 1951-1961; 51 48'N 10 37'E, alt = 1153m. 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 +

...21) GMT. Reliability: compared with 093610 & 093930 for the years 1951-1976.

094540: WERNIGEROODE E.GERMANY 51.9N 10.8E 234m 1961-1976 61
Sources: A1

Notes: A1: 1951-1961; 51 51'N 10 46'E, alt = 240m. 1/4(01 + 07 + 13 + 19) GMT. 1962-1965; 1/4(00 + 06 + 12 + 18) GMT. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: uncheckable.

094547: WERNIGEROODE E.GERMANY 51.9N 10.8E 234m 1951-1967 61
Sources: A1

Notes: A1: 1961; 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967; 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable.

094557: KOTHEN E.GERMANY 51.8N 11.9E 1823-1847 62
Sources: A35

Notes: A35: No details available. Reliability: uncheckable.

094690: LEIPZIG E.GERMANY 51.3N 12.4E 148m 1951-1980 10 1951 45
Sources: A1

Notes: A1: 1951-1960; alt = 148m. 1961-1970 = 127m. 1951-1957; 1/4(01 + 07 + 13 + 19) local time. 1958-1960; 1/4(07 + 14 + 21 + 21) local time. Prec is measured at 07h & credited to the day of measurement. After 1969 rain is credited to the previous day. 1961; 1/4(01 + 07 + 13 + 19) local time. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Reliability: compared with 093790 for the period 1951-1980.

094700: LEIPZIG E.GERMANY 51.4N 12.4E 137m 1759-1935 12 1840
Sources: A34, A35

Notes: A34: Alt; 128m. No other details available. A35: 1759-1831; Anomalies from mean (no years given). No other details available. Reliability: compared with 094999 for the years 1770-1935. Data gaps 1772-1824.

094797: TORGAU E.GERMANY 51.6N 13.0E 80m 1848-1977 63
Sources: A14, A35

Notes: A14: Alt; 80m. No other details available. A35: 1859-1868; anomalies from mean (years not given). No other details available. Reliability: uncheckable.

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|-------|-------|-----------|---------|-----------|---------|--|--|--|--|--|--|--|
| 094798: HALLE | E.GERMANY | 51.5N | 11.9E | 111m | 1820-1976 | 81 | | | | | | | | | |
| Sources: A14, A35 | | | | | | | | | | | | | | | |
| Notes: A14: Alt; 111m. No other details available. A35: 1859-1868; anomalies from mean (years not given). No other details available. Reliability: compared with 103840 & 094700 for the years 1820-1868. | | | | | | | | | | | | | | | |
| 094860: WAHNSDORF | E.GERMANY | 51.1N | 13.7E | 246m | 1812-1974 | 10 1812 | | | | | | | | | |
| Sources: A1, A14, A35 | | | | | | | | | | | | | | | |
| Notes: A1: Alt; 1951-1960 = 257m, 1961-1970 = 246m. 1951-1961; means of 1/4(01 + 07 + 13 + 19) local time. Rain is measured at 07h & assigned to the day of measurement. 1962-1970; 1/4(00 + 06 + 12 + 18) GMT. From Jan 1969 rain is measured at 07h & assigned to the previous day. A14: No details available. A35: 1859-1868; anomalies from mean (years not given). 1848-1858; Mar-Aug only. Alt; 360m. Reliability: compared with 094700 for the years 1812-1974. | | | | | | | | | | | | | | | |
| 094880: DRESDEN | E.GERMANY | 51.1N | 13.8E | 246m | 1851-1980 | 61 | | | | | | | | | |
| Sources: A1, A14, A35, A169 | | | | | | | | | | | | | | | |
| Notes: A1: Alt; 1951-1960 = 257m, 1961-1970 = 246m. 1951-1961; 1/4(01 + 07 + 13 + 19) local time. Prec is measured at 07h & credited to the day of measurement. 1962-1970; 1/4(00 + 06 + 12 + 18) GMT. From Jan 1969 prec is measured at 07h & assigned to the previous day. A14: No details available. A35: 1859-1868; anomalies from mean. Alt; 360m. No other details available. A169: Alt; 112m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | |
| 094990: GORLITZ | E.GERMANY | 51.2N | 15.0E | 237m | 1836-1980 | 10 1836 | | | | | | | | | |
| Sources: A1, A14, A35 | | | | | | | | | | | | | | | |
| Notes: A1: Alt; 238m. 1951-1961; means of 1/4(01 + 07 + 13 + 19) local time. Rain is measured at 07h & credited to the day of measurement. 1962-1966; 1/4(01 + 06 + 12 + 18) GMT. 1967-1970; means of 8 3-hourly observations, 01, 03...21 GMT. From 1969 rain is ascribed to the previous day. A14: Alt; 238m. No other details available. A35: 1859-1868; anomalies from mean (years not given). No other details available. Reliability: compared with 103840, 094700 & 094999 for the years 1836-1980, 1836-1935 & 1836-1935. Data gap 1869-1950. | | | | | | | | | | | | | | | |
| 094998: ARNSTADT | E.GERMANY | 50.8N | 11.3E | 898m | 1823-1867 | 10 1823 | | | | | | | | | |
| Sources: A35 | | | | | | | | | | | | | | | |
| Notes: A35: Alt; 898m. 1858-1867; Anomalies from mean (no years given). No other details available. Reliability: compared with 094700, 094999 & 103840 for the years 1823-1867. | | | | | | | | | | | | | | | |
| 094999: JENA | E.GERMANY | 50.9N | 11.6E | 155m | 1770-1973 | 10 1833 | | | | | | | | | |
| Sources: A8, A14, A35 | | | | | | | | | | | | | | | |
| Notes: A8: No details available. A14: Alt; 155m. No other details available. A35: No details available. Reliability: compared with 103840 & 094700 for the years 1770-1935. Data gap 1801-1819. | | | | | | | | | | | | | | | |
| 095460: KALTENNORDHEIM | E.GERMANY | 50.6N | 10.2E | | | | 1970-1980 | 61 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | | |
| Notes: A1: 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | |
| 095540: ERFURT/BINDERSLEBEN | E.GERMANY | 51.0N | 11.0E | 314m | 1827-1980 | 12 1848 | | | | | | | | | |
| Sources: A1, A14, A35, A169 | | | | | | | | | | | | | | | |
| Notes: A1: Means of 1/4(01 + 07 + 13 + 19). Rain is measured at 07 GMT & credited to the day of measurement. A1: 1951-June 1957 = 257m, July 1957-1964 = 316m, Sept 1964-1970 = 315m. 1962-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1968; 1/8(00 + 03 + ...21) GMT. 1969 on; rain is credited to the previous day. A14: Alt; 314m. No other details available. A35: 1859-1868; Anomalies from mean (no years given). Alt; 700m. No other details available. A169: Alt; 218m. No other details available. Reliability: compared with 094998, 093790, 103810 & 103840 for the years 1848-1867, 1893-1980, 1848-1970 & 1848-1980. Data gap 1869-1950. | | | | | | | | | | | | | | | |
| 095599: STRALSUND | E.GERMANY | 54.3N | 13.1E | | | | 1828-1852 | 10 1828 | | | | | | | |
| Sources: A35 | | | | | | | | | | | | | | | |
| Notes: A35: No details available. Reliability: compared with 090927 & 094700 for the years 1830-1852 & 1828-1852. | | | | | | | | | | | | | | | |
| 095780: FICHTELBERG | E.GERMANY | 50.4N | 13.0E | 1215m | 1963-1980 | 61 | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | | |
| Notes: A1: 1963-1966; 1/4(00 + 06 + 12 + 18) GMT. 1967-1970; 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | |
| 100350: SCHLESWIG | W.GERMANY | 54.5N | 9.6E | 48m | 1954-1980 | 10 1954 | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | | | |
| Notes: A1: 1954-1970; 1/4(07 + 14 + 21 + 21) local time. 54 32'N 9 33'E, alt = 48m. Reliability: compared with 103380 & 101470 for the years 1954-1980. | | | | | | | | | | | | | | | |
| 100450: KIEL | W.GERMANY | 54.3N | 10.1E | 4m | 1849-1974 | 10 1849 | | | | | | | | | |
| Sources: A14, A35, A169 | | | | | | | | | | | | | | | |
| Notes: A14: Alt; 4m. No other details available. A35: 1859-1868; anomalies from mean (no years given). No other details available. A169: Alt; 47m. No other details available. Reliability: compared with 102030 & 103380 for the years 1869-1930. 1927-1930 data have been omitted. | | | | | | | | | | | | | | | |
| 101307: LUNEBERG | W.GERMANY | 53.3N | 10.4E | 11m | 1854-1975 | 63 | | | | | | | | | |
| Sources: A14, A35 | | | | | | | | | | | | | | | |
| Notes: A14: Alt; 11m. No other details available. A35: Anomalies from mean (no years given). Reliability: uncheckable. | | | | | | | | | | | | | | | |

101308: EUTIN W.GERMANY 54.1N 10.6E 49m 1856-1974 63
 Sources: A14, A35
 Notes: A14: Alt; 49m. No other details available. A35: Anomalies from mean (no years given). Reliability: uncheckable.

101470: HAMBURG/FUHLSBUTTEL W.GERMANY 53.6N 10.0E 16m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1951-May 1968; Fuhlsbuttel, 53 38'N 10 00'E, alt = 15m. 1/4(07 + 14 + 21 + 21). June 1968-1970; 53 38'N 9 59'E, alt = 16m. Reliability: compared with 100350 & 103380 for the years 1954-1980 & 1951-1980.

101560: LUBECK W.GERMANY 53.9N 10.7E 1840-1868 83
 Sources: A35
 Notes: A35: 1859-1868; anomalies from mean (no years given). No other details available. Reliability: compared with 103810 & 103840 for the years 1840-1868. Record shows two trends.

101770: TETEROW W.GERMANY 53.8N 12.6E 1951-1960 61
 Sources: A1
 Notes: A1: 1951-Oct 1952; 53 46'N 12 38'E, alt = 65m. Oct 1952-1960; 53 46'N 12 37'E, alt = 50m. 1/4(01 + 07 + 13 + 19) local time. Reliability: uncheckable.

102020: EMDEN W.GERMANY 53.4N 7.2E 1961-1970 61
 Sources: A1
 Notes: A1: May 1955-Mar 1960; 53 22'N 7 13'E, alt = 1m. April-Dec 1960; 53 20'N 7 12'E, alt = 12m. 1/4(07 + 14 + 21 + 21) local time. Reliability: uncheckable.

102030: EMDEN-WOLTHUSEN W.GERMANY 53.3N 7.2E 1m 1844-1980 40
 Sources: A1, A14, A35, A101, A169
 Notes: Station was also known locally as Nesserland. A1: 1955-1970; means of 1/4(07 + 14 + 21 + 21). Rain is measured at 07h & credited to the day of measurement. 1955-Mar 1960; alt = 1m. April 1960-1977 = 12m. A14: No details available. A35: 1859-1868; anomalies from mean (no years given). A101: No details available. A169: Alt; 8m. No other details available. Reliability: compared with 103380 & 100350 for the years 1856-1980 & 1954-1980. Data gap 1869-1955, followed by urban warming.

102240: BREMEN W.GERMANY 53.1N 8.8E 4m 1829-1975 62
 Sources: A14, A35, A101
 Notes: A14: Alt; 4m. No other details available. A35: 1856-1866; anomalies from mean (years not given). No other details available. A101: No details available. Reliability: uncheckable.

103130: MUNSTER W.GERMANY 52.0N 7.6E 64m 1818-1975 73 1853
 Sources: A14, A35, A101
 Notes: A14: Alt; 64m. No other details available. A35: 1859-1868; Anomalies from mean (no years given). No other details available. A101: Alt; 55m. No other details available. Reliability: compared with 103010 for the years 1829-1868. Data gap 1827-1852.

103380: HANNOVER W.GERMANY 52.5N 9.7E 55m 1856-1980 10 1856
 Sources: A1, A14, A35, A101, A169
 Notes: A1: Alt; 1951-1960 = 53m, 1961-1970 = 54m. Means of 1/4(07 + 14 + 21 + 21) local time. Rain is measured at 07h & credited to the day of measurement. A14: Alt; 50m. No other details available. A35: Anomalies from mean (years not given). A101: No details available. A169: Alt; 57m. No other details available. Reliability: compared with 102020 & 101470 for the years 1856-1980 & 1951-1980. Data gap 1869-1950.

103480: BRAUNSCHWEIG W.GERMANY 52.3N 10.5E 83m 1825-1890 10 1825
 Sources: A35, A101
 Notes: A35: Anomalies from mean. No other details available. A101: Alt; 83m. No other details available. Reliability: compared with 103810 & 103840 for the years 1825-1855.

103810: BERLIN/DAHLEM W.GERMANY 52.6N 13.4E 58m 1769-1975 80
 Sources: A1
 Notes: A1: 1769-1786; 1/3(0700 + 1430 + 2200) summer time & 1/3(0800 + 1430 + 2200) winter. 1787-1821; 1/3(08 + 13 + 23). 1822-1840; 1/4(08 + 14 + 22 + 22). 1841-1847; 1/2(max + min) reduced to 1/3(06 + 14 + 22) by means of simultaneous observations. 1848-1886; 1/3(06 + 14 + 22). 1887-1920; 1/4(07 + 14 + 21 + 21). See p51, vol 79 for notes on homogeneity & errors. Alt; 35m. 1921-1950; 1/4(07 + 14 + 21 + 21) 15E meridian time. 1951-1970; 1/4(07 + 14 + 21 + 21). Rain is measured at 07h & credited to the day of measurement. 1804-1816 temp too low, 1873-1882 0.2C too warm & in 1886 0.2C too low. Reliability: compared with 103840 & 093790 for the years 1769-1970 & 1893-1970. Record shows a jump about 1930.

103840: BERLIN W.GERMANY 52.5N 13.4E 50m 1701-1980 10 1701
 Sources: A1, A14, A26, A35, A95
 Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). Rain is measured at 07h & credited to day of measurement. Alt; 1951-1957 = 49m, 1957-1970 = 55m. A minor local move in this site occurred in 1970, with a change in alt to 48m. A14: No details available. A26: No details available. A35: No details available. A95: No details available. Reliability: compared with 103810, 094700, 094880 & 095540 for the years 1769-1970, 1759-1935, 1851-1930 & 1869-1930. Data gaps 1710-1727 & 1750-1755. Record shows definite trend 1900-1930 & jumps at about 1908 & 1951.

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| 104060: BOCHUM Sources: A35 | W.GERMANY | 51.5N | 7.2E | 1820-1851 | 83 | 105090: KOLN Sources: A14, A35, A101 | W.GERMANY | 51.0N | 7.0E | 45m | 1848-1975 | 63 | | | | | |
| Notes: A35: No details available. Reliability: compared with 105010, 106380 & 104247 for the years 1829-1851, 1820-1851 & 1820-1851. | | | | | | | | | | | | | | | | | |
| 104100: ESSEN Sources: A1 | W.GERMANY | 51.4N | 7.0E | 161m | 1951-1980 | 10 | 1951 | 105150: KOBLENZ Sources: A35, A101 | W.GERMANY | 50.4N | 7.6E | 69m | 1818-1868 | 63 | | | |
| Notes: A1: 1951-1960; 51 25'N 6 57'E, alt = 128m. 1/4(07 + 14 + 21 + 21) local time. 1961-Nov 1965; alt = 120m. Dec 1965-1970; 51 24'N 6 58'E, alt = 154m. Reliability: compared with 106280 for the years 1951-1980. | | | | | | | | | | | | | | | | | |
| 104247: ARNSBERG Sources: A35, A101 | W.GERMANY | 51.4N | 8.1E | 212m | 1817-1890 | 13 | 1817 | 105550: WEIMAR Sources: A1 | W.GERMANY | 51.0N | 11.3E | | 1951-1960 | 61 | | | |
| Notes: A35: Alt; 188m. No other details available. A101: Alt; 212m. No other details available. Reliability: compared with 106380 for the years 1817-1851. | | | | | | | | | | | | | | | | | |
| 104380: KASSEL Sources: A1, A169 | W.GERMANY | 51.3N | 9.5E | 163m | 1863-1980 | 81 | 106090: TRIER Sources: A1, A14, A35, A43, A101 | W.GERMANY | 49.8N | 6.7E | 273m | 1788-1975 | 82 | | | | |
| Notes: A169: Alt; 200m. No other details available. A1: 1953-1970; 1/4(07 + 14 + 21 + 21) local time. 51 19'N 9 29'E, alt = 163m. Reliability: compared with 104100 & 106280 for the years 1953-1980. Record shows definite cooling trend 1975-1980. | | | | | | | | | | | | | | | | | |
| 104440: GOTTINGEN Sources: A14, A35, A101 | W.GERMANY | 51.5N | 9.9E | 176m | 1857-1975 | 63 | Notes: Station was also known as Petrisberg. A1: 1806-1937; Alt = 146m. 1938-1950; Alt = 149m. 1951-1970; Alt = 273m. Means of 1/4(07 + 14 + 21 + 21) 15E meridian time. Sept 1944-Aug 1946; Temp values were interpolated from Berrkastel. A14: Site; 49.7N 6.7E. Alt; 273m. No other details available. A35: No details available. A43: "Real" means. A101: No details available. Reliability: compared with 109620 & 108660 for the years 1788-1970 & 1788-1950. Data gaps 1817-1849 & 1898-1937. | | | | | | | | | | |
| Notes: A14: Alt; 176m. No other details available. A35: Anomalies from mean (no years given). A101: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 104527: KLAUSTHAL Sources: A14, A35, A101 | W.GERMANY | 51.8N | 10.3E | 566m | 1855-1975 | 63 | 106280: GEISENHEIM Sources: A1 | W.GERMANY | 50.0N | 8.0E | 108m | 1951-1980 | 10 | 1951 | | | |
| Notes: A14: Alt; 566m. No other details available. A35: Anomalies from mean (no years given). No other details available. A101: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 105010: AACHEN Sources: A29, A35, A101 | W.GERMANY | 50.8N | 6.1E | 177m | 1829-1893 | 13 | 1833 | 106370: FRANKFURT A MAIN Sources: A1 | W.GERMANY | 50.1N | 8.6E | 113m | 1961-1970 | 61 | | | |
| Notes: A29: Alt; 1838-1857 = 123m, 1858-1872 = 175m, 1873-1893 = 177m. 1829-1837; 1/3(0700 + 1430 + 2130). 1838-1846; 1/3(07 + 13 + 21). 1847-1886; 1/3(06 + 14 + 22). 1887-1893; 1/4(07 + 14 + 21 + 21). A35: No details available. A101: Alt; 175m. No other details available. Reliability: compared with 064470 for the years 1833-1893. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1835-Mar 1853; 1/4(09 + 15 + 22 + min). April 1853-Dec 1892; 1/3(06 + 14 + 22). 1893-1920; 1/4(07 + 14 + 21 + 21). From 1888 thermometer was in a screen & after Feb 1899, in an English shelter. Dec 1907 station moved. Temp was about 0.3C too high 1857-1861 & 1899-1907. 1921-1940; 1/4(07 + 14 + 21 + 21). Alt; 98m. 1931-1950; alt = 103m. 1941-1961; 1/4(07 + 14 + 21 + 21) 15E MT. Alt; 1951-1960; 109m. Stadt closed in 1961, having become inhomogeneous due to several interruptions & transfers. A14: Alt; 109m. No | | | | | | | | | | | 48 | | | | | | |

other details available. A35: No details available. A87: No details available. A101: No details available. A118: 1826; 1/4(08 + 20 + max + min). 1827-1892; 1/4(09 + 15 + 22 + min). 1893-1895; 1/4(07 + 14 + 21 + 21). Reliability: compared with 103840 for the years 1757-1961.

106390: DARMSTADT W.GERMANY 49.9N 8.7E 157m 1830-1930 10 1830
Sources: A35, A101, A169

Notes: A35: Anomalies from mean (no years given). No other details available. A101: Alt; 57m. No other details available. A169: Alt; 147m. No other details available. Reliability: compared with 106380 & 108660 for the years 1830-1866.

106877: BayREUTH W.GERMANY 49.9N 11.6E 320m 1814-1930 63
Sources: A35, A101, A169

Notes: A35: No details available. A101: Alt varied from 338 to 359m. No other details available. A169: Alt; 364m. No other details available. Reliability: uncheckable.

107080: SAARBRUECKEN W.GERMANY 49.2N 7.0E 191m 1951-1970 61
Sources: A1

Notes: A1: 1951-Aug 1955; 49 13'N 7 01'E, alt = 190m. Sept 1957-1960; alt = 191m. Station moved several times Sept 1955-Aug 1957 but no details are given. Data from Sept 1957 are not homogeneous with the earlier site. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; Eschheim, 49 13'N 7 07'E, alt = 334m, does not continue former record of Stadt. Reliability: uncheckable.

107270: KARLSRUHE W.GERMANY 49.0N 8.4E 114m 1779-1976 10 1779
Sources: A14, A35, A101, A169

Notes: A14: Alt; 114m. No other details available. A35: No details available. A101: Alt; 118m. No other details available. A169: Alt; 125m. No other details available. Reliability: compared with 107390, 109620 & 108660 for the years 1869-1930, 1855-1930 & 1855-1930.

107380: STUTTGART/ECHTERD W.GERMANY 48.7N 9.2E 396m 1952-1970 61
Sources: A1

Notes: A1: Means of 1/4(07 + 14 + 21 + 21). Alt; 396m. Reliability: uncheckable.

107390: STUTTGART/CANNSTADT W.GERMANY 48.8N 9.2E 315m 1792-1980 10 1961
Sources: A1, A14, A35, A101, A169

Notes: A1: Means of 1/4(07 + 14 + 21 + 21). Alt; 315m. A14: Alt; 401m. No other details available. A35: 1856-1868; Anomalies from mean (no years given). No other details available. A101: Alt; 268m. No other details available. A169: Alt; 267m. No other details available. Reliability: compared with 108660 & 109610 for the years 1792-1950 & 1951-1980.

107630: NURNBERG W.GERMANY 49.5N 11.1E 319m 1879-1980 41
Sources: A1, A35, A101, A106

Notes: Station was also known as Kraftshoe. A1: 1955-1970; 1/4(07 + 14 + 21 + 21) local time. Alt; 312m. A35: No details available. A101: Alt; 315m. No other details available. A106: Normal values, /CLIMO/, only. Press; 1/3(07 + 14 + 21) reduced to mean sea level. Temp; 1/4(07 + 14 + 21 + 21). Reliability: compared with 109340 & 106280 for the years 1955-1976 & 1955-1980.

107760: REGENSBURG W.GERMANY 49.0N 12.1E 377m 1773-1975 83
Sources: A14, A35

Notes: A14: Alt; 377m. No other details available. A35: No details available. Reliability: compared with 108660 for the years 1781-1834.

108520: AUGSBURG W.GERMANY 48.4N 10.4E 490m 1813-1973 63
Sources: A14, A35

Notes: A14: Alt; 490m. No other details available. A35: No details available. Reliability: uncheckable.

108660: MUNCHEN/RIMM W.GERMANY 48.1N 11.7E 529m 1781-1980 10 1781
Sources: A1, A14, A35, A169, A171 49

Notes: A1: Alt; 1951-1960 = 527m, 1961-1970 = 529m. 1951-1960; 1/4(01 + 07 + 13 + 19) local time. In April 1969 the station moved from 48 08'N 11 42'E, alt = 524m, to 48 09'N 11 43'E, alt = 527m. New temp values are about 0.3C lower than the former site. 1961-1970; 1/4(07 + 14 + 21 + 21). A14: 48.2N 11.6E, alt = 515m. No other details available. A35: 1825-1866; anomalies from mean (no years given). Alt; 1590m. No other details available. A169: Alt; 530m. No other details available. A171: No details available. Reliability: compared with 109620 for the years 1781-1970.

109340: FRIEDRICHSHAFEN W.GERMANY 47.7N 9.5E 407m 1826-1976 10 1866
Sources: A1, A14, A101, A169

Notes: Station was also known as Bodensee. A1: Means of 1/4(07 + 14 + 21 + 21) local time. Rain is measured at 07h & credited to the day of measurement. Alt; 407m. A14: Alt; 401m. No other details available. A101: Alt; 407m. No other details available. A169: Alt; 408m. No other details available. Reliability: compared with 106280 & 109610 for the years 1951-1976.

109610: ZUGSPITZE W.GERMANY 47.4N 11.0E 2962m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). 47 25'N 10 59'E, alt = 2962m. Reliability: compared with 109340 & 106280 for the years 1951-1976 & 1951-1980.

109620: HOHENPEISSENBERG W.GERMANY 47.8N 11.0E 983m 1781-1970 10 1781
 Sources: A1, A35

Notes: Alt: Alt; 1951-1960 = 983m, 1961-1966 = 986m, 1967-1970 = 977m. Means of 1/4(07 + 14 + 21 + 21). Rain is measured at 07h & credited to the day of measurement. Corrections had to be made to observations prior to 1936 in order to reduce all values to true means & to the English shelter, details on p96, vol 2. The means of 1937-1955 were inserted in the original. Summer time has not been considered. The differences are small, so data have been taken unchanged. The differences between the true means & the combination 1/4(07 + 14 + 21 + 21) are practically zero. A35: No details available. Reliability: compared with 107390 & 108660 for the years 1869-1930 & 1781-1950.

110100: LINZ AUSTRIA 48.3N 14.3E 305m 1852-1974 10 1852
 Sources: A14, A22

Notes: A14: Alt; 305m. No other details available. A22: 48.2N 14.2E. No other details available. Reliability: compared with 110350 for the years 1852-1956.

110120: KREMENSTER AUSTRIA 48.1N 14.1E 388m 1767-1980 10 1800
 Sources: A8, A35

Notes: A8: No details available. A35: Alt; 388m. No other details available. Reliability: compared with 110350 for the years 1767-1980.

110207: HOHENFURTH AUSTRIA 48.6N 15.3E 1817-1843 13 1817
 Sources: A35

Notes: A35: No details available. Reliability: compared with 110120 & 110350 for the years 1817-1843.

110280: ST. POLTEN AUSTRIA 48.2N 15.6E 282m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-May 1955; Viehofen, 48 13'N 15 39'E, alt = 261m. May 1955-Aug 1955; Ortseingang, alt = 265m. Aug 1955-1960; 11, Wallseerstrasse, 48 13'N 15 38'E, alt = 282m. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; 48 12'N 15 37'E, alt = 282m. Reliability: compared with 110350 for the years 1951-1980.

110350: WIEN HOHE WARTE AUSTRIA 48.2N 16.4E 212m 1775-1981 10 1777
 Sources: A1, A14, A35

Notes: A1: 1775-1920; means of 24 hours. Alt = 203m. All observations have been reduced to the present location at Hohe-Warte. 1921-1930; means of 24 hours, local time. 1931-1940; 1/4(07 + 14 + 21 + 21) local time. 1931-1950; means of 24 hours local time. In vol "1941-1950" it is said that 1775-1850 data have not been corrected to Hohe-Warte, corrections given on p31. From 1953 observations were taken in an open-air, rather than a Hann shelter, corrections given on p13, vol 2. 1951-1970; 1/4(07 + 14 + 21 + 21)local time. A14: Alt; 203m. No other details available. A35:

No details available. Reliability: compared with 110120 for the years 1777-1980.

111197: WILTEN AUSTRIA 47.3N 11.4E 184m 1829-1858 63
 Sources: A35

Notes: A35: Alt; 184m. No other details available. Reliability: uncheckable.

111200: INNSBRUCK/UNIVERSITY AUSTRIA 47.3N 11.4E 582m 1777-1980 10 1880
 Sources: A1, A8, A14, A35

Notes: A1: 1906-1960; Alt = 582m. No details given, but could be means of 1/4(07 + 14 + 21 + 21) local time. In 1948 the station moved from the court to the garden of the Institute, 4km apart. Temps in the court were 0.2C higher than in the garden. Rain corrections are given on p11, vol 2. 1961-1970; Alt = 579m. Means of 1/4(07 + 14 + 21 + 21) local time. A8: No details available. A14: Alt; 573m. No other details available. A35: No details available. Reliability: compared with 111460 for the years 1887-1980.

111460: SONNBLICK AUSTRIA 47.1N 13.0E 3107m 1887-1980 10 1887
 Sources: A1

Notes: A1: Means of 1/4(07 + 14 + 21 + 21) local time. Alt; 1886-1950 = 3107m, 1951-1970 = 3106m. From June-Dec 1936 rain was read at a different site & values tend to be low. 1951-1970; rain was measured from 2 gauges because of the mountainous area, so rain is 1/2(W + 8 rain gauge). Reliability: compared with 111200 for the years 1887-1980. 50

111500: SALZBURG-FLUGHAFEN AUSTRIA 47.8N 13.0E 446m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21) local time. 1951-Jan 1952; Maxglan, 47 48'N 13 00'E, alt = 436m. Feb 1952-May 1953; alt = 434m. May 1953-Jan 1955; 437m. Feb 1955-May 1958; 430m. May 1958-April 1964; 435m. May 1964-Oct 1969; 446m. Oct 1969-1970; 450m. Reliability: compared with 111460 & 111200 for the years 1951-1980.

112310: KLAGENFURT-FLUGHAFEN AUSTRIA 46.7N 14.3E 452m 1813-1980 80
 Sources: A1, A8, A14, A35

Notes: A1: Alt; 1951-1960 = 448m, 1961-1970 = 452m. Means of 1/4(07 + 14 + 21 + 21) local time. A8: No details available. A14: Alt; 448m. No other details available. A35: Alt; 1349ft. No other details available. Reliability: compared with 111460 & 110350 for the years 1887-1980 & 1813-1980.

112400: GRAZ-THALERHOF AUSTRIA 47.0N 15.5E 347m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1954; 46 59'N 15 27'E, alt = 338m. 1955-Feb 1969; alt = 342m. Mar 1969-1970; 47 00'N 15 26'E, alt = 347m. 1951-1970; 1/4(07 + 14 + 21 + 21) local time. Reliability: compared with 111460 & 112310 for the years

1951-1980.

114055: NEURODE CZECH 50.5N 16.5E 237m 1823-1843 63
Sources: A35

Notes: A35: Alt; 237m. No other details available. Reliability: uncheckable.

114057: HOHENELB CZECH 50.6N 15.6E 1817-1850 83
Sources: A35

Notes: A35: No details available. Reliability: compared with 115180, 116590 & 124240 for the years 1817-1850, 1828-1850 & 1817-1850.

114058: TETSCHEN CZECH 50.8N 14.2E 288m 1828-1842 63
Sources: A35

Notes: A35: Alt; 288m. No other details available. Reliability: uncheckable.

114060: CHEB CZECH 50.1N 12.4E 471m 1953-1980 10 1953
Sources: A1

Notes: A1: 1/4(07 + 14 + 21 + 21) local time. 1951-1952; 50 05'N 12 24'E. Jan 1953-Nov 1954; alt = 491m. Dec 1954-Oct 1959; alt = 474m. Nov 1959-1970; alt = 471m. Reliability: compared with 115180 & 117230 for the years 1953-1980.

114180: MARIANSKE LAZNE CZECH 49.9N 12.7E 1951-1960 61
Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21) local time. 49 55'N 12 44'E, alt = 541m. Reliability: uncheckable.

114647: SMETSCHNA CZECH 50.2N 14.0E 1077m 1817-1847 83
Sources: A35

Notes: A35: Alt; 1077m. No other details available. Reliability: compared with 114055, 115180, 124240 & 116590 for the years 1817-1847, 1817-1847, 1817-1847 & 1828-1847. Data gap 1822-1827.

115180: PRAGUE CZECH 50.1N 14.3E 381m 1771-1980 20 1771
Sources: A1, A14, A29, A33, A35

Notes: A1: Alt; 1951-1960 = 374m, 1961-1970 = 381m. Means of 1/4(07 + 14 + 21 + 21) local mean solar time. A14: No details available. A29: Means of 1/3(07 + 14 + 21). A33: Alt; 202m. No other details available. A35: No details available. Reliability: compared with 125660, 128400 & 124240 for the years 1825-1980, 1780-1980 & 1792-1980. Data gap 1939-1950, involves a jump in the record, probably a site change & has been corrected. Correction Factors: Stations used: 128400. Calculation dates: 1951-1980. Correction dates: 1771-1939. Factors: -19 -27 -20 -15 -15 -16 -17 -17 -19 -16 -20 -23.

115200: LIBUS CZECH 50.0N 14.5E 1971-1980 61
Sources: A1

Notes: A1: 1961-1970; 1/4(07 + 14 + 21 + 21) local time. 50 40'N 17 58'E, alt = 178m. Reliability: uncheckable.

116587: SCHOBBL CZECH 50.5N 13.5E 1838-1865 13 1838
Sources: A35

Notes: A35: 1858-1865; Anomalies from mean (no years given). No other details available. Reliability: compared with 115180 & 124240 for the years 1838-1865.

116590: DEUTSCHBROD CZECH 49.6N 15.6E 1238m 1828-1866 83
Sources: A35

Notes: A35: Alt; 1238m. 1858-1866; Anomalies from mean (no years given). No other details available. Reliability: compared with 115180, 114057 & 124240 for the years 1828-1866, 1828-1850 & 1828-1866.

116797: LANDSKRON CZECH 49.9N 16.6E 1025m 1817-1840 83
Sources: A35

Notes: A35: Alt; 1025m. No other details available. Reliability: compared with 115180 & 117357 for the years 1817-1840.

117230: BRNO/TURANY CZECH 49.2N 16.7E 242m 1951-1980 10 1951
Sources: A1

Notes: A1: 1/4(07 + 14 + 21 + 21) local time. 1951-April 1958; Slatina, 49 11'N 16 39'E, alt = 248m. May 1958-1970; Turany, 49 09'N 16 42'E, alt = 242m. Reliability: compared with 114060 & 115180 for the years 1953-1980 & 1951-1980.

117357: LEOBSCHEUTZ CZECH 50.2N 17.8E 357m 1805-1849 10 1805
Sources: A35

Notes: A35: Alt; 357m. No other details available. Reliability: compared with 115180 & 128400 for the years 1805-1849.

117820: OSTRAVA CZECH 49.8N 18.3E 253m 1951-1980 10 1951
Sources: A1

Notes: A1: 1/4(07 + 14 + 21 + 21) local time. Jan-May 1951; 49 47'N 18 16'E, alt = 251m. June 1951-Oct 1959, 245m. Nov 1959-1960; 253m. 1961-1970; 49 42'N 18 07'E, alt = 253m. Reliability: compared with 119030 & 119340 for the years 1951-1980.

| | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 118160: | BRATISLAVA/IVANKA | CZECH | 48.2N | 17.2E | 132m | 1951-1970 | 61 | | 121450: | GDYNIA | POLAND | 54.5N | 18.6E | 5m | 1951-1960 | 61 | | | | | | | | | |
| Sources: | AI | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: 1/4(07 + 14 + 21 + 21) local time. Jan-Oct 1951; Dvornik, 48 12'N 17 12'E, alt = 132m. Nov 1951-1960; Ivanka, 48 10'N 17 13'E, alt = 138m. 1961-1970; 48 10'N 17 12'E, alt = 138m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | | | | | | |
| 119030: | BLIAC | CZECH | 48.6N | 19.2E | 319m | 1951-1980 | 10 | 1951 | 121500: | GDANSK-WRZESZCZ | POLAND | 54.4N | 18.6E | 12m | 1807-1980 | 20 | 1807 | | | | | | | | |
| Sources: | AI | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: 1951-1960; 1/4(07 + 14 + 21 + 21) local time. 48 38'N 19 09'E, alt = 316m. Reliability: compared with 119340 & 117820 for the years 1951-1980. | | | | | | | | | | | | | | | | | | | | | | | | |
| 119271: | ARVAVARALJA | CZECH | 49.3N | 19.3E | 501m | 1851-1900 | 10 | 1851 | Notes: | AI: Alt; 12m. Means of 1/4(07 + 13 + 21 + 21) local solar mean time. Rain is measured at 07h & ascribed to the previous day. From Jan 1966; means of 8 daily observations, (00, 03, 06...21 GMT). A35: 1859-1868; anomalies from mean (no years given). No other details available. Reliability: compared with 123750, 125660 & 123300 for the years 1807-1980, 1825-1980 & 1951-1980. Data gaps 1839-1852 & 1869-1950. Corrected for a station move during late 1973. Correction Factors: Stations used: 122050 & 123750. Calculation dates: 1974-1980. Correction dates: 1807-1973. Factors: -17 -17 -17 -6 -7 -9 -10 -13 -14 -12 -10 -16. | | | | | | | | | | | | | | | |
| Sources: | AI50 | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI50: 49 16'N 19 21'E, alt = 501m. Anomalies from real means. Series has probably been corrected, possibly from means of 1/4(07 + 14 + 21 + 21) & 1/4(07 + 13 + 21 + 21). Reliability: compared with 115180 for the years 1851-1900. | | | | | | | | | | | | | | | | | | | | | | | | |
| 119340: | POPRAD/TATRY | CZECH | 49.1N | 20.3E | 709m | 1951-1980 | 10 | 1951 | 121600: | ELBING | POLAND | 54.2N | 19.4E | | 1829-1842 | 63 | | | | | | | | | |
| Sources: | AI | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: 1951-1960; 1/4(07 + 14 + 21 + 21) local time. 49 04'N 20 15'E, alt = 707m. 1961-1970; 49 03'N 20 18'E, alt = 709m. Reliability: compared with 119030 & 117820 for the years 1951-1980. | | | | | | | | | | | | | | | | | | | | | | | | |
| 119680: | KOSICE | CZECH | 48.7N | 21.3E | 235m | 1951-1970 | 61 | | Notes: | A35: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | 52 |
| Sources: | AI | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: 1/4(07 + 14 + 21 + 21) local time. Jan-Mar 1951; 48 42'N 21 16'E, alt = 235m. April 1951-1970; 48 42'N 21 15'E, alt = 232m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | | | | | | |
| 120001: | ZECHEN | POLAND | 51.1N | | 380m | 1839-1868 | 83 | | 121907: | ARYS | POLAND | 53.8N | 22.1E | 450m | 1830-1865 | 13 | 1830 | | | | | | | | |
| Sources: | A35 | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | A35: 1859-1868; Anomalies from mean (no years given). Alt; 380m. Reliability: compared with 121050, 122050 & 124240 for the years 1848-1868, 1839-1868 & 1839-1868. Record may be inhomogeneous around 1853/1854. | | | | | | | | | | | | | | | | | | | | | | | | |
| 121050: | KOSZALIN | POLAND | 54.2N | 16.2E | 34m | 1848-1976 | 10 | 1848 | Notes: | A1: Alt; 1950-1960 = 38m, 1961-1970 = 34m. 1951-1965; 1/4(07 + 13 + 21 + 21). Rain is measured at 07h & ascribed to the previous day. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Alt; 33m. No other details available. A35: 1859-1868; anomalies from mean (no years given). A169: Alt; 46m. No other details available. Reliability: compared with 125660 & 122050 for the years 1848-1970. Data gap 1869-1950. | | | | | | | | | | | | | | | |
| Sources: | AI, A14, A35, A169 | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: Alt; 1950-1960 = 38m, 1961-1970 = 34m. 1951-1965; 1/4(07 + 13 + 21 + 21). Rain is measured at 07h & ascribed to the previous day. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Alt; 33m. No other details available. A35: 1859-1868; anomalies from mean (no years given). A169: Alt; 46m. No other details available. Reliability: compared with 125660 & 122050 for the years 1848-1970. Data gap 1869-1950. | | | | | | | | | | | | | | | | | | | | | | | | |
| 121950: | SUWALKI | POLAND | 54.1N | 23.0E | | 170m | 1951-1970 | 61 | Notes: | A1: Alt; 7m. 1951-1965; 1/4(07 + 13 + 21 + 21) local solar mean time. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Alt; 1m. No other details available. A35: 1859-1868; anomalies from mean (no years given). No other details available. Reliability: compared with 121050 & 124240 for the years 1848-1970 & 1836-1980. Data gap 1869-1950. | | | | | | | | | | | | | | | |
| Sources: | AI | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: Alt; 7m. 1951-1965; 1/4(07 + 13 + 21 + 21) local solar mean time. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Alt; 1m. No other details available. A35: 1859-1868; anomalies from mean (no years given). No other details available. Reliability: compared with 121050 & 124240 for the years 1848-1970 & 1836-1980. Data gap 1869-1950. | | | | | | | | | | | | | | | | | | | | | | | | |
| 122050: | SZCZECIN-DABIE | POLAND | 53.4N | 14.6E | | 7m | 1836-1980 | 12 | 1836 | Notes: | AI: Alt; 1m. 1951-1965; 1/4(07 + 13 + 21 + 21) local solar mean time. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Alt; 1m. No other details available. A35: 1859-1868; anomalies from mean (no years given). No other details available. Reliability: compared with 121050 & 124240 for the years 1848-1970 & 1836-1980. Data gap 1869-1950. | | | | | | | | | | | | | | |
| Sources: | AI, A14, A35 | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: Alt; 1m. 1951-1965; 1/4(07 + 13 + 21 + 21) local solar mean time. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Alt; 1m. No other details available. A35: 1859-1868; anomalies from mean (no years given). No other details available. Reliability: compared with 121050 & 124240 for the years 1848-1970 & 1836-1980. Data gap 1869-1950. | | | | | | | | | | | | | | | | | | | | | | | | |
| 122500: | TORUN | POLAND | 53.1N | 18.6E | | 70m | 1951-1970 | 61 | Notes: | AI: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 53 03'N 18 35'E, alt = 70m. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Reliability: uncheckable. | | | | | | | | | | | | | | | |
| Sources: | AI | | | | | | | | | | | | | | | | | | | | | | | | |
| Notes: | AI: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 53 03'N 18 35'E, alt = 70m. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | | | | | | |

122950: BIALYSTOK POLAND 53.1N 23.2E 141m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 53 07'N 23 11'E, alt = 141m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 126950 for the years 1951-1980.

123300: POZNAN-LAWICA POLAND 52.4N 16.8E 92m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 52 25'N 16 50'E, alt = 92m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 121500, 123750, 124240 & 125660 for the years 1951-1980.

123740: LEGIONOWO POLAND 52.4N 21.0E 104m 1951-1964 61
 Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 52 24'N 20 58'E, alt = 104m. Reliability: uncheckable.

123750: WARSZAWA-OKECIE POLAND 52.2N 21.0E 107m 1779-1980 12 1831
 Sources: A1, A2, A13, A111, A150

Notes: A1: 1885-1920; means of (hours not given). Alt = 133m. In 1923 the station moved from 52 13'N 21 01'E to 52 13'N 21 03'E, alt = 88m. 1951-1970; alt = 107m. 1921-1965; means of 1/4(07 + 13 + 21 + 21) 15E meridian time. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A2: No details available. A13: Alt; 120m. Means of 1/3(06 + 14 + 22). Corrections are given on pVI. A111: No details available. A150: 52 13'N 21 02'E, alt = 121m. Anomalies from real means for period 1851-1900. Series has been corrected, probably from means of 1/4(07 + 14 + 21 + 21) & 1/4(07 + 13 + 21 + 21). Reliability: compared with 125660 & 124240 for the years 1825-1980 & 1792-1980. Record has data gaps, largest is 1938-1950.

123950: BIALA POLAND 52.0N 23.1E 1951-1960 61
 Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 52 01'N 23 08'E, alt = 147m. Reliability: uncheckable.

123990: TERESPOL POLAND 52.1N 23.6E 144m 1951-1967 61
 Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 52 05'N 23 37'E, alt = 135m. Reliability: uncheckable.

124000: ZIELONA GORA POLAND 51.9N 15.5E 174m 1951-1970 61
 Sources: A1

Notes: A1: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 51 56'N 15 30'E, alt = 174m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: uncheckable.

124050: ZGORZELEC POLAND 51.2N 15.0E 218m 1951-1967 61
 Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 51 10'N 15 00'E, alt = 218m. Reliability: uncheckable.

124240: WROCŁAW POLAND 51.1N 17.0E 119m 1792-1980 70 1831
 Sources: A1, A8, A14, A35

Notes: Station was also known as Breslau & as Maly Gadow. A1: 1851-1886; 1/3(06 + 14 + 22), 1887-1945; 1/4(07 + 14 + 21 + 21) 15E meridian time. 1946-1965; 1/4(07 + 13 + 21 + 21) 15E meridian time. A1: 1851-1930 = 116m, 1931-1936 = 147m. From 1870-1887 temp seems too low. In 1936 Breslau, 51 05'N 17 00'E, alt = 147m, was replaced by Wroclaw, 51 07'N 17 05'E, alt = 123m. 1951-1960; alt = 119m. In 1961 Strachowice, 51 06'N 16 53'E, alt 121m, replaced Maly Gadow. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A8: No details available. A14: Site; 51.1N 16.1E, alt = 121m. No other details available. A35: No details available. Reliability: compared with 123750, 125307 & 122050 for the years 1792-1980, 1823-1951 & 1836-1980. Record shows definite trend 1823-1830.

125200: KŁODZKO POLAND 50.4N 16.7E 320m 1951-1970 61
 Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 50 26'N 16 39'E, alt = 320m. 1961-1970; alt = 317m. 1966-1970; 1/8(00 + 03 + ...21) GMT. 53
 Reliability: uncheckable.

125300: OPOLE POLAND 50.7N 18.0E 176m 1951-1970 61
 Sources: A1

Notes: A1: 1961-1965; 1/4(07 + 13 + 21 + 21) local time. 1966-1970; 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable.

125307: NYSA POLAND 50.3N 17.3E 581m 1823-1851 13 1823
 Sources: A35

Notes: A35: Alt; 581m. No other details available. Reliability: compared with 123750 & 121907 for the years 1823-1851 & 1830-1851.

125500: CZESTOCHOWA POLAND 50.8N 19.1E 263m 1951-1970 61
 Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 50 49'N 19 06'E, alt = 263m. 1961-1970; alt = 295m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: uncheckable.

125660: KRAKOW POLAND 50.0N 20.0E 216m 1825-1980 10 1825
 Sources: A1, A35, A112, A150

Notes: A1: Alt; 1951-1960 = 213m, 1961-1970 = 237m. 1951-1965; 1/4((07 + 13 + 21) local solar mean time. Rain is measured at 07h & assigned to the

previous day. 1966-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. 1951-1964; 50.1N 20.0E, alt = 216m. 1964-1977; Balice, alt = 237m. A35: 1858-1867; anomalies from mean (no years given). A112: No details given. A150: 50 04'N 19 57'E, alt = 220m. Anomalies from real means for period 1851-1900. Series probably corrected from means of 1/4(07 + 14 + 21 + 21) & 1/4(07 + 13 + 21 + 21). Reliability: compared with 123750, 121050 & 115180 for the years 1825-1980, 1848-1970 & 1825-1980. Data gap 1867-1950.

125850: SANDOMIERZ POLAND 50.7N 21.8E 200m 1951-1970 61
Sources: A1

Notes: A1: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 50 41'N 21 45'E, alt = 200m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: uncheckable.

125950: ZAMOSC POLAND 50.7N 23.3E 219m 1951-1970 61
Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 13 + 21 + 21) local time. 50 44'N 23 15'E, alt = 219m. 1961-1970; 50 42'N 23 15'E, alt = 213m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: uncheckable.

126250: ZAKOPANE POLAND 49.3N 20.0E 857m 1951-1970 61
Sources: A1

Notes: A1: 1961-1965; 1/4(07 + 13 + 21 + 21) local time. 1966-1970; 1/8(00 + 03 + ...21) GMT. 49 18'N 19 57'E, alt = 860m. Reliability: uncheckable.

126707: KRYNICA HUNGARY 49.4N 21.0E 1878-1960 61
Sources: A1

Notes: A1: Alt; 1878-1940 = 586m, 1941-1950 = 600m, 1951-1960 = 586m. 1951-1960; means of 1/4(07 + 13 + 21 + 21) local solar mean time. Reliability: uncheckable.

126950: PRZEMYSŁ POLAND 49.8N 22.8E 239m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1965; 1/4(07 + 13 + 21 + 21) local time. 49 48'N 22 46'E, alt = 239m. 1966-1970; 1/8(00 + 03 + ...21) GMT. Reliability: compared with 122950 for the years 1951-1980.

127720: MISKOLC HUNGARY 48.1N 20.8E 120m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1960; 48 08'N 20 48'E, alt = 120m. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; at some stage observation times changed to 01, 04, 07...22h Central European Time. Alt = 112m. Reliability: compared with 115180, 125660, 128400 & 129420 for the years 1951-1980.

128150: MAGYAROVAR HUNGARY 47.9N 17.3E 121m 1859-1977 61
Sources: A1, A14

Notes: A1: Alt; 121m. 1951-1960; 1/8(01 + 04 + 07 + 10 + 13 + 16 + 19 + 22) Central European Time. A14: Alt; 122m. No other details available. Reliability: uncheckable.

128400: BUDAPEST/MET'LOGIA HUNGARY 47.5N 19.0E 130m 1780-1980 10 1780
Sources: A1, A14

Notes: A1: 1780-1960: Notes of site changes & references to methods of data preparation are on p33 of the source. No other details are given. 1961-1970; This note is given; "During this period observation times were changed, from 07,14 & 21, to 01,04,07,10,13,16,19 & 22 Central European Time. The data are calculated from the real mean values, instead of the earlier daily 3 observations. Averages for 1931-1960, too, refer to the real mean values. Budapest with unchanged exposure carries out observations also at 07,14 & 21. Nevertheless, in order to ensure uniformity of all Hungarian data the 1961-1970 data set for Budapest, with its normal values /CLINO/, is given on the basis of the real daily mean values." Alt; 130m. A14: No details available. Reliability: compared with 115180 for the years 1780-1980.

128430: BUDAPEST/LORINC HUNGARY 47.4N 19.2E 140m 1953-1980 10 1953
Sources: A1

Notes: A1: 1951-1960; 47 26'N 19 11'E, alt = 140m. 1/4(07 + 14 + 21 + 21) Central European Time. 1961-1970; 1/8(01 + 04 + ...22) Central European Time. Reliability: compared with 128820 for the years 1953-1980.

128800: DEBRECEN HUNGARY 47.6N 21.6E 114m 1853-1980 10 1853
Sources: A1, A8

Notes: A1: 1951-1968; 1/3(07 + 14 + 21). Alt; 114m. 1969-1970; 1/8(01 + 04 + 07 + 10 + 13 + 16 + 19 + 22) Central European Time. Alt; 128m. A8: Alt; 128m. No other details available. Reliability: compared with 128400 for the years 1853-1980. Station merged with 128820.

129400: PECS HUNGARY 46.1N 18.2E 1961-1970 61
Sources: A1

Notes: A1: 1951-Mar 1957; Airport Meteorological Station, alt = 124m. April 1957-1960; 46 03'N 18 14'E, alt = 135m. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; 46 00'N 18 14'E, alt = 203m. At some stage observation times became 01, 04, 07...22 Central European Time. Reliability: uncheckable.

129420: PECS HUNGARY 46.0N 18.1E 135m 1951-1980 81
Sources: A1

Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21) Central European Time. 1961-1970; 1/8(01 + 04 + 07 + ...22) Central European Time. 46 00'N 18 14'E, alt = 203m. Reliability: compared with 115180, 127720 & 128400 for the years 1951-1980. Some evidence of a trend in this record.

| | | | | | | | | |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|------|-----------|---------|----|
| 129800: | SZEGED | HUNGARY | 46.3N | 20.2E | 96m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1951-1960; 46 15'N 20 09'E, alt = 97m. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; at some stage the observation times changed to 1/8(01 + 04 + ...22) Central European Time. 46 15'N 20 06'E, alt = 84m. Reliability: uncheckable. | | | | | | | |
| 129820: | SZEGED | HUNGARY | 46.3N | 20.1E | 83m | 1961-1980 | 61 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1961-1970; 1/8(01 + 04 + ...22) Central European Time. No other details available. Reliability: uncheckable. | | | | | | | |
| 131290: | ZAGREB | YUGOSLAVIA | 45.8N | 16.0E | 163m | 1861-1980 | 10 1862 | |
| Sources: | A1, A14, A27 | | | | | | | |
| Notes: | A1: Means of 1/4(07 + 14 + 21 + 21) local time. Alt; 163m. A14: No details available. A27: No details available. Reliability: compared with 132740 for the years 1888-1980. | | | | | | | |
| 131300: | ZAGREB /MAKSIMIR | YUGOSLAVIA | 45.8N | 16.0E | 122m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: Means of 1/4(07 + 14 + 21 + 21) local time. Alt; 122m. 1951-1960; alt = 157m. Reliability: uncheckable. | | | | | | | |
| 131330: | SISAK | YUGOSLAVIA | 45.5N | 16.4E | 98m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1951-1960; 1/4(07 + 14 + 21 + 21) local time. 45 29'N 16 23'E, alt = 98m. 1961-1970; alt = 106m. Reliability: uncheckable. | | | | | | | |
| 131570: | OSIJEK | YUGOSLAVIA | 45.6N | 18.7E | | 1882-1955 | 10 1882 | |
| Sources: | A8 | | | | | | | |
| Notes: | A8: No details available. Reliability: compared with 131290 for the years 1882-1955. | | | | | | | |
| 132740: | BEOGRAD | YUGOSLAVIA | 44.8N | 20.5E | | 1888-1980 | 10 1888 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1888-1920; means of (hours not given). Alt; 138m. 1921-1930; 1/4(07 + 14 + 21 + 21). 1941-1960; means as above, time is local time. Alt; 139m. 1951-1960; Rain is recorded at 07h & credited to the previous day. 1961-1970; alt = 132m. Means as above. Reliability: compared with 131290 for the years 1888-1980. | | | | | | | |
| 132750: | BEOGRAD | YUGOSLAVIA | 44.8N | 20.5E | | | | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1961-1970; Alt; 132m. 1/4(07 + 14 + 21 + 21) local time. Rain is recorded at 07h & credited to the previous day. Reliability: uncheckable. | | | | | | | |
| 133340: | SPLIT/MARJAN | YUGOSLAVIA | 43.5N | 16.4E | 129m | 1926-1980 | 10 1926 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1/4(07 + 14 + 21 + 21) local time. 1926-1950; 43 31'N 16 26'E, alt = 128m. Site is described on p40, vol "1941-1950". Jan & Feb 1945 data are interpolated from Przno 43 19'N 16 42'E, alt = 391m. 1951-1960; 43 31'N 16 26'E, alt = 122m. 1961-1970; alt = 128m. Reliability: compared with 133350 & 133540 for the years 1926-1970 & 1951-1970. | | | | | | | |
| 133350: | HVAR | YUGOSLAVIA | 43.2N | 16.4E | | | | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1859-1918; means of (hours not given). 1951-1970; 1/4(07 + 14 + 21 + 21) local time. Alt; 20m. 1961-1970; alt = 25m. Reliability: compared with 133340 & 132740 for the years 1926-1980 & 1888-1970. | | | | | | | |
| 133400: | LIVNO | YUGOSLAVIA | 43.8N | 17.0E | 730m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1951-1960; 1/4(07 + 14 + 21 + 21) local time. 43 50'N 17 01'E, alt = 730m. 1961-1970; alt = 728m. Reliability: uncheckable. | | | | | | | |
| 133540: | SARAJEVO | YUGOSLAVIA | 43.9N | 18.4E | 637m | 1880-1980 | 10 1891 | 55 |
| Sources: | A1, A29 | | | | | | | |
| Notes: | A1: Means of 1/4(07 + 14 + 21 + 21) local time. Alt; 1951-1960 = 630m, 1961-1970 = 637m. A29: Means of 1/4(07 + 14 + 21 + 21). Alt; 540m. Reliability: compared with 133340 & 131290 for the years 1951-1980 & 1891-1980. | | | | | | | |
| 134620: | TITOGRAD/GOLUBOVCI | YUGOSLAVIA | 42.4N | 19.3E | 33m | 1951-1980 | 10 1951 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1951-1960; 1/4(07 + 14 + 21 + 21) local time. 42 26'N 19 17'E, alt = 52m. 1961-1970; alt = 51m. Reliability: compared with 133340 for the years 1951-1980. | | | | | | | |
| 134800: | SKOPJE | YUGOSLAVIA | 42.0N | 21.5E | 241m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | | |
| Notes: | A1: 1951-1970; 1/4(07 + 14 + 21 + 21) local time. 41 59'N 21 28'E, alt = 241m. Reliability: uncheckable. | | | | | | | |

135830: BITOLA YUGOSLAVIA 41.0N 21.4E 617m 1896-1910 61
 Sources: A43
 Notes: Station was also known as Monastir. A43: Means of 1/2(max + min). Alt; 617m. Reliability: uncheckable.

135860: SKOPJE YUGOSLAVIA 42.0N 21.5E 240m 1961-1980 61
 Sources: A1
 Notes: A1: 1961-1970; 1/4(07 + 14 + 21 + 21) local time. No other details available. Reliability: uncheckable.

136000: SHKODER AP ALBANIA 42.1N 19.5E 43m 1951-1970 61
 Sources: A1
 Notes: A1: 1951-1960; 42 06'N 19 32'E, alt = 43m. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; alt = 44m. Reliability: uncheckable.

136150: TIRANE AP ALBANIA 41.3N 19.8E 89m 1951-1970 61
 Sources: A1
 Notes: A1: 1951-1960; 41 20'N 19 47'E, alt = 89m. 1/4(07 + 14 + 21 + 21) local time. 1961-1970; alt = 97m. Reliability: uncheckable.

136220: VLORE ALBANIA 40.5N 19.5E 1m 1951-1970 61
 Sources: A1
 Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21). 40 28'N 19 29'E, alt = 3m. 1961-1970; alt = 5m. Reliability: uncheckable.

150047: BAIA MARE RUMANIA 47.6N 23.6E 227m 1871-1930 10 1871
 Sources: A6
 Notes: A6: Alt; 227m. 1871-1915; 1/3(07 + 14 + 21). 1921-1930; 1/3(08 + 14 + 20). Reliability: compared with 151200 for the years 1881-1930.

150800: ORADEA RUMANIA 47.1N 21.9E 135m 1951-1970 81
 Sources: A1
 Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time. 47 03'N 21 56'E, alt = 135m. 1961-1970; alt = 136m. Reliability: compared with 150850 & 152600 for the years 1951-1970.

150850: BISTRITA RUMANIA 47.1N 24.5E 366m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1951-1970; 1/4(01 + 07 + 13 + 19) local time. 47 08'N 24 30'E, alt = 366m. Reliability: compared with 150900 & 154200 for the years 1951-1980.

150900: IASI RUMANIA 47.2N 27.6E 103m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time. 47 10'N 27 36'E, alt = 102m. 1961-1970; alt = 103m. Reliability: compared with 150850 & 154200 for the years 1951-1980.

151117: ROMAN RUMANIA 46.9N 26.9E 190m 1886-1930 10 1886
 Sources: A6
 Notes: A6: Alt; 190m. 1887-1915; 1/3(07 + 14 + 21). 1921-1930; 1/3(08 + 14 + 20). Reliability: compared with 151200 for the years 1886-1930.

151200: CLUJ RUMANIA 46.8N 23.7E 415m 1833-1980 10 1951
 Sources: A1, A6
 Notes: A1: 1951-1960; alt = 313m. 1961-1970 = 315m. Means of 01, 07, 13 & 19, local time. A6: Alt; 363m. Prior to 1915; no details of means given. 1915-1920; means of 07, 14 & 21h. 1921-1930; means of 08, 14 & 21h. Reliability: compared with 152600 & 152470 for the years 1881-1980. Data gap 1931-1950.

152470: TIMISOARA RUMANIA 45.8N 21.3E 91m 1873-1980 12 1880 56
 Sources: A1, A6
 Notes: A1: Alt; 1951-1960 = 90m, 1961-1970 = 91m. Means of 1/4(01 + 07 + 13 + 19) local time. A6: Alt; 92m. 1880-1915; 1/3(07 + 14 + 21). 1921-1930; 1/3(08 + 14 + 20). Reliability: compared with 152600 for the years 1880-1980.

152577: STANISLAV RUMANIA 45.9N 24.8E 205m 1839-1854 63
 Sources: A35
 Notes: Station was also known as Galizien. A35: Alt; 205m. No other details available. Reliability: uncheckable.

152600: SIBIU RUMANIA 45.8N 24.3E 452m 1851-1980 10 1851
 Sources: A1
 Notes: A1: 1851-1881; 1/4(06 + 14 + 22 + 22). 1881-1930; 1/4(07 + 14 + 21 + 21) Eastern European Time. Alt; 1851-1940 = 419m, 1941-1950 = 409m, 1951-1970 = 452m. 1931-1940; 1/3(07 + 14 + 21), calculated according to the Koppen formula; $m = n - k(n - \text{min})$, where n is the mean of the 3 daily observations, min is the mean of the daily min & k is a factor, different for each month, time is 30E meridian. 1941-1950; Koppen formula as above is used, but hours are 08, 14 & 20h. 1951-1970; 1/4(01 + 07 + 13 + 19) local time. Reliability: compared with 151200 & 152470 for the years 1881-1980 & 1880-1980.

| | | | | | | | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------|-------|-------|------|-----------|----|------|--|
| 153600: | SULINA | RUMANIA | 45.2N | 29.7E | 9m | 1868-1980 | 10 | 1876 | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1876-1920; means of (hours not given). Alt = 2m. 1921-1950; $1/3(08 + 14 + 20)$, calculated by Koppen Formula; $m = \bar{m} - k(\bar{m} - \min)$, where \bar{m} is the mean of the 3 daily observations, \min is the mean of the daily minima & k is a factor, differing for each month. Time is Eastern Europe, 30E meridian. 1941-1946; Where data are missing observations from Constants, 44 11'N 28 40'E, alt = 30m, have been corrected to give values for Sulina, see p36, vol "1941-1950". Alt; 1951-1960 = 3m, 1961-1970 = 9m. 1951-1970; $1/4(01 + 07 + 13 + 19)$ local time. Reliability: compared with 154220 for the years 1876-1980. | | | | | | | | | |
| 154200: | BUCURESTI/BANEASA | RUMANIA | 44.5N | 26.1E | 92m | 1951-1980 | 10 | 1951 | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1951-1970; $1/4(01 + 07 + 13 + 19)$ local time. Alt; 92m. Reliability: compared with 150850 & 150900 for the years 1951-1980. | | | | | | | | | |
| 154220: | BUCURESTI/FILARET | RUMANIA | 44.4N | 26.1E | 82m | 1857-1980 | 10 | 1857 | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1857-1920; The site changed many times, as did hours of observation. The various means have been corrected to the means of 24 hourly observations. After 1881 the Koppen formula was used; $m = \bar{m} - k(\bar{m} - \min)$, where \bar{m} = true mean, \min = daily min, k is a coefficient & \bar{m} is the mean of 3 observations. 1921-1950; means of $1/3(08 + 14 + 20)$, calculated according to Koppen formula. Observations taken at 30E meridian time. 1951-1970; $1/4(01 + 07 + 13 + 19)$ local time. Reliability: compared with 153600 for the years 1876-1980. | | | | | | | | | |
| 154800: | CONSTANTA | RUMANIA | 44.2N | 28.7E | 32m | 1951-1970 | 10 | 1951 | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1951-1960; $1/4(01 + 07 + 13 + 19)$ local time. 44 11'N 28 40'E, alt = 32m. 1961-1970; alt = 34m. Reliability: compared with 154220 for the years 1951-1970. | | | | | | | | | |
| 155050: | VRATZA | BULGARIA | 43.2N | 23.5E | 360m | 1951-1970 | 10 | 1951 | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1951-1960; $1/4(07 + 14 + 21 + 21)$. 43 12'N 23 32'E, alt = 309m. 1961-1970; alt = 348m. Reliability: compared with 155440 for the years 1951-1970. | | | | | | | | | |
| 155110: | LOM | BULGARIA | 43.8N | 23.2E | 33m | 1961-1979 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1961-1970; $1/4(07 + 14 + 21 + 21)$ local time. No other details available. Reliability: uncheckable. | | | | | | | | | |
| 155260: | PLEVEN | BULGARIA | 43.4N | 24.6E | 75m | 1951-1970 | 81 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1951-1957; 43 25'N 24 36'E, alt = 163m. 1958-1960; alt = 116m. $1/4(07 + 14 + 21 + 21)$. 1961-1970; 43 25'N 24 35'E, alt = 138m. Reliability: compared with 156140 & 156550 for the years 1951-1970. Record shows a discontinuity about 1953/1954. | | | | | | | | | |
| 155440: | KOLAROVGRAD | BULGARIA | 43.3N | 26.9E | 198m | 1951-1971 | 10 | 1951 | |
| Sources: | All | | | | | | | | |
| Notes: Alt: $1/4(07 + 14 + 21 + 21)$. 1951-1955; 43 16'N 26 56'E, alt = 216m. 1958-1960; alt = 220m. Reliability: compared with 155050 for the years 1951-1970. | | | | | | | | | |
| 155520: | VARNA | BULGARIA | 43.2N | 27.9E | 41m | 1961-1979 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1961-1970; $1/4(07 + 14 + 21 + 21)$ local time. No other details available. Reliability: uncheckable. | | | | | | | | | |
| 156140: | SOFIA | BULGARIA | 42.7N | 23.3E | 564m | 1951-1979 | 62 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1951-1960; 42 41'N 23 20'E, alt = 552m. $1/4(07 + 14 + 21 + 21)$. 1958-1960; alt = 564m. 1961-1970; 42 39'N 23 23'E, alt = 595m. Reliability: compared with 156550 for the years 1951-1979. Data gaps make record uncheckable. | | | | | | | | | |
| 156150: | MUSSALAH TOP | BULGARIA | 42.2N | 23.6E | | 1963-1969 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1963-1969; $1/4(07 + 14 + 21 + 21)$ local time. No other details available. Reliability: uncheckable. | | | | | | | | | |
| 156250: | PLOVDIV | BULGARIA | 42.2N | 24.8E | 160m | 1951-1970 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1951-1970; 42 09'N 24 45'E, alt = 160m. $1/4(07 + 14 + 21 + 21)$. Reliability: uncheckable. | | | | | | | | | |
| 156270: | BOTEV VRAH TOP | BULGARIA | 42.7N | 24.9E | | 1963-1969 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: Alt: 1963-1969; $1/4(07 + 14 + 21 + 21)$ local time. No other details available. Reliability: uncheckable. | | | | | | | | | |

156460: KARNOBAT BULGARIA 42.7N 27.0E 1961-1969 61
 Sources: A1

Notes: A1: 1961-1969; 1/4(07 + 14 + 21 + 21) local time. No other details available. Reliability: uncheckable.

156550: BOURGAS BULGARIA 42.5N 27.5E 28m 1951-1979 62
 Sources: A1

Notes: A1: 1951-1955; 1/4(07 + 14 + 21 + 21), 1951-1955; 42 32'N 27 32'E, alt = 27m. 1958-1960; 42 29'N 27 29'E, alt = 5m. 1961-1970; alt = 38m. Reliability: compared with 156140 & 155440 for the years 1951-1979 & 1951-1971. Data gaps make record uncheckable.

160207: TRENTO ITALY 46.1N 11.1E 312m 1816-1976 62
 Sources: A14, A35

Notes: A14: Alt; 312m. No other details available. A35: 1856-1866; anomalies from mean (no years given). No other details available. Reliability: compared with 160880 & 160900 for the years 1820-1846 & 1816-1866. Data gaps make record uncheckable.

160450: UDINE/CAMPOMFORMIDO ITALY 46.0N 13.1E 92m 1803-1980 82
 Sources: A35, A38, A106, A117, A129

Notes: A35: No details available. A38: No details available. A106: Normal values, /CLINO/, only. Press; 1/4(00 + 06 + 12 + 18), reduced to MSL. Temp; 1/2(max + min). 1946-1960; means are corrected to those of 1931-1960, by correlation with the nearest station. A117: Alt; 359ft. No other details available. A129: 46 04'N 0 44'E of Rome. Alt; 116m. No other details available. Reliability: compared with 160800 for the years 1808-1970.

160590: TURIN ITALY 45.2N 7.7E 238m 1753-1976 10 1753
 Sources: A1, A14, A25, A35, A129

Notes: A14: Alt; 238m. No other details available. A25: No details available. A35: No details available. A129: 45 04'N 4 47'W of Rome. Alt; 276m. No other details available. A1: 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt = 267m. Reliability: compared with 160800 for the years 1763-1970.

160660: MILANO MALPENSA ITALY 45.6N 8.7E 1961-1970 61
 Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 45 37'N 8 44'E, alt = 211m. Reliability: uncheckable.

160707: RIVA ITALY 46.1N 9.2E 1869-1891 63
 Sources: A29

Notes: A29: Temp; 1/4(07 + 14 + 21 + 21), plus a correction factor, given on p28. Press; No details available. Reliability: compared with 160900 for the

years 1869-1891. Record is really uncheckable because of data gaps.

160800: MILANO/LIMATE ITALY 45.5N 9.2E 103m 1763-1980 10 1764
 Sources: A1, A14, A35, A38

Notes: A1: 1866-1921; means of (hours not given). Alt; 1866-1950 = 147m, 1951-1960 = 120m, 1961-1970 = 103m. 1921-Nov 1932; 1/4(09 + 21 + max + min) Central Europe Time. Dec 1932-1960; 1/4(08 + 19 + max + min) 158 meridian time. 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A14: Site; 45.5N 9.3E, alt = 121m. No other details available. A35: 1859-1866; anomalies from mean (no years given). No other details available. A38: Press; 1835-1838; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21), 1839-1843; 1/8(02 + 05 + 08 + 11 + 14 + 17 + 20 + 23). 1844-1858; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 1859-Nov 1932; 1/3(09 + 15 + 21). Dec 1932-1962; 1/3(08 + 14 + 19). Temp; No details available. Reliability: compared with 160590 & 162420 for the years 1764-1970 & 1871-1980.

160880: BRESCIA ITALY 45.5N 10.1E 143m 1820-1846 83
 Sources: A35, A129

Notes: A35: Alt; 143m. No other details available. A129: 45 32'N 2 16'W of Rome. Alt; 172m. No other details available. Reliability: compared with 160207 & 160800 for the years 1820-1846.

160900: VERONA VILLAFRANCA ITALY 45.4N 10.9E 67m 1788-1980 82
 Sources: A1, A35, A106

Notes: A1: Means of 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A35: No details available. A106: Normal values, /CLINO/, only. Press; 1/4(00 + 06 + 12 + 18), reduced to MSL. Temp; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 1946-1960; means are corrected to those of 1931-1960, by correlation with the nearest station. Reliability: compared with 160950 & 160800 for the years 1788-1827 & 1788-1980.

160950: PADUA ITALY 45.4N 12.0E 13m 1725-1974 73
 Sources: A14, A35, A37, A129

Notes: A14: Alt; 13m. No other details available. A35: No details available. A37: No details available. A129: 45 24'N 0 37'W of Rome. Alt; 31m. No other details available. Reliability: compared with 160800 for the years 1780-1827.

161050: VENIZIA/B NICOLO ITALY 45.5N 12.1E 17m 1951-1980 10 1951
 Sources: A1, A35, A129

Notes: A1: Alt = 17m. No details given, but probably 1/4(08 + 19 + max + min) 158 meridian time. A35: No details available. A129: 45 26'N 0 09'W of Rome. Alt; 21m. No other details available. Reliability: compared with 161900 for the years 1951-1978.

| | | | | | | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|-------|-------|-------|------|-----------|----|------|--|--|--|--|
| 161100: | TRIESTE | ITALY | 45.7N | 13.8E | 20m | 1841-1980 | 10 | 1841 | | | | |
| Sources: | A1, A14, A32, A35, A43 | | | | | | | | | | | |
| Notes: A1: Means of 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt; 1951-1960 = 9m, 1961-1970 = 20m. A14: Site; 45.6N 13.7E. No other details available. A32: Means reduced to 0C & to sea level. A43: "Real" means. Alt; 26m. A35: 1857-1866; anomalies from mean (no years given). No other details available. Reliability: compared with 160800 & 161900 for the years 1841-1980 & 1951-1978. | | | | | | | | | | | | |
| 161400: | BOLOGNA | ITALY | 44.5N | 11.5E | 60m | 1808-1974 | 12 | 1808 | | | | |
| Sources: | A1, A14, A35 | | | | | | | | | | | |
| Notes: A14: Alt; 60m. No other details available. A35: No details available. A1: 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt = 49m. Reliability: compared with 162390 for the years 1808-1970. | | | | | | | | | | | | |
| 161490: | RIMINI | ITALY | 44.0N | 12.6E | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 44 01'N 12 38'E, alt = 13m. Reliability: uncheckable. | | | | | | | | | | | | |
| 161580: | PISA S.GIUSTO | ITALY | 43.7N | 10.4E | 2m | 1961-1980 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 43 40'N 10 23'E, alt = 1m. Reliability: uncheckable. | | | | | | | | | | | | |
| 161700: | FLORENCE | ITALY | 43.8N | 11.3E | 75m | 1821-1977 | 12 | 1832 | | | | |
| Sources: | A1, A14, A35, A124, A129 | | | | | | | | | | | |
| Notes: A14: Alt; 75m. No other details available. A35: Alt; 220m. No other details available. A124: Means of 1/2(max + min). 43 46'N 11 15'E. Alt; 75m. A129: 43 46'N 1 14'E of Rome. Alt; 73m. No other details available. A1: 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt = 38m. Reliability: compared with 160800 for the years 1832-1970. | | | | | | | | | | | | |
| 161900: | ANCONA | ITALY | 43.6N | 13.5E | 104m | 1951-1978 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; 43 37'N 13 31'E, alt = 114m. 1961-1970; 1/8(00 + 03 + ...21) GMT. Alt = 104m. Reliability: compared with 161100 for the years 1951-1978. | | | | | | | | | | | | |
| 162060: | CROSSETTO | ITALY | 42.8N | 11.1E | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 42 45'N 11 04'E, alt = 7m. Reliability: uncheckable. | | | | | | | | | | | | |
| 162300: | PESCARA | ITALY | 42.4N | 14.2E | 9m | 1961-1980 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 42 26'N 14 12'E, alt = 11m. Reliability: uncheckable. | | | | | | | | | | | | |
| 162420: | ROME | ITALY | 41.7N | 12.5E | 3m | 1782-1980 | 10 | 1811 | | | | |
| Sources: | A1, A8, A24, A35 | | | | | | | | | | | |
| Notes: A1: 1871-1920; means of (hours not given). Alt; 63m. 1921-1940; 1/4(09 + 21 + max + min) Central European Time. Alt; 50m. 1941-1960; 1/4(08 + 19 + max + min) 15E meridian time. Alt; 46m. 1951-1960; alt = 131m, 1961-1964 = 101m. 1965 on; Fiumicino; alt = 3m. 1961-1970; 1/8(00 + 03 + ...21) GMT. A8: No details available. A24: No details available. A35: No details available. Reliability: compared with 162600 for the years 1879-1952. Station merged with 162390. | | | | | | | | | | | | |
| 162600: | FOGGIA | ITALY | 41.5N | 15.6E | 101m | 1879-1952 | 10 | 1879 | | | | |
| Sources: | A23, A129 | | | | | | | | | | | |
| Notes: A23: Alt; 101m. No other details available. A129: 41 27'N 3 02'E of Rome. Alt; 87m. No other details available. Reliability: compared with 162420 for the years 1879-1952. | | | | | | | | | | | | |
| 162610: | AMENDOLA | ITALY | 41.5N | 15.7E | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 41 32'N 15 43'E, alt = 60m. Reliability: uncheckable. | | | | | | | | | | | | |
| 162700: | BARI PALESE | ITALY | 41.1N | 16.8E | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 41 08'N 16 47'E, alt = 49m. Reliability: uncheckable. | | | | | | | | | | | | |
| 162800: | PONZA | ITALY | 40.9N | 13.0E | | 1961-1970 | 61 | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 40 55'N 12 57'E, alt = 185m. Reliability: uncheckable. | | | | | | | | | | | | |
| 162890: | NAPOLI CAPODICHINO | ITALY | 40.9N | 14.3E | 88m | 1866-1980 | 22 | 1866 | | | | |
| Sources: | A1, A35, A106, A113, A126, A129 | | | | | | | | | | | |
| Notes: A1: Alt; 72m. Means of 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. A35: No details available. A106: Normal values, /CLINO/, only. Press; 1/4(00 + 06 + 12 + 18), reduced to MSL. Temp; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 1946-1960; corrected to means of 1931-1960, by correlation with the nearest station. A113: Press; 1/3(09 + 15 + 21). Temp; 1/2(max + min). A126: No details available. A129: 40 52'N 1 47'E of Rome. Alt; 149m. No other details available. Reliability: compared with 162420 for the | | | | | | | | | | | | |

years 1871-1980. Corrected for change in site either side of a data gap, 1926-1961. Correction Factors: Stations used: 162420. Calculation dates: 1961-1980. Correction dates: 1866-1925. Factors: -18 -13 -7 -2 -1 3 2 -5 -8 -14 -17 -15.

163000: POTENZA ITALY 40.6N 15.8E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 40 38'N 15 48'E, alt = 84m.
Reliability: uncheckable.

163100: CAPO PALINURO ITALY 40.0N 15.3E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 40 01'N 15 17'E, alt = 185m.
Reliability: uncheckable.

163200: BRINDISI ITALY 40.7N 18.0E 15m 1961-1980 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 40 39'N 17 57'E, alt = 10m.
Reliability: uncheckable.

163250: MARINA DI GINOSA ITALY 40.4N 16.9E 12m 1967-1980 61
Sources: A1

Notes: A1: 1967-1970; 1/8(00 + 03 + ...21) GMT. No other details available.
Reliability: uncheckable.

163300: TARANTO ITALY 40.5N 17.3E 41m 1951-1967 61
Sources: A1

Notes: A1: 1951-1960; 40 28'N 17 17'E, alt = 41m. 1/8(00 + 03 + ...21) GMT.
Reliability: uncheckable.

163500: CROTONE ITALY 39.0N 17.1E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 39 00'N 17 04'E, alt = 161m.
Reliability: uncheckable.

163600: S. MARIA DI LEUCA ITALY 39.8N 18.4E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 39 49'N 18 21'E, alt = 112m.
Reliability: uncheckable.

164000: USTICA ITALY 38.7N 13.2E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 38 42'N 13 11'E, alt = 251m.
Reliability: uncheckable.

164050: PALERMO ITALY 38.1N 13.4E 229m 1791-1868 83
Sources: A35, A129

Notes: A35: Alt; 229m. 1791-1863; No details available. 1864-1868; anomalies from mean (no years given). A129: 38 06'N 0 51'E of Rome. Alt; 71m. No other details available. Reliability: compared with 162390 for the years 1811-1868.

164060: TERMINI ITALY 38.0N 13.7E 75m 1880-1906 83
Sources: A128, A129

Notes: A128: Means of 1/2(max + min). Alt; 75m. A129: 37 59'N 1 15'E of Rome. Alt; 75m. No other details available. Reliability: compared with 162890 & 165970 for the years 1880-1906.

164200: MESSINA ITALY 38.2N 15.6E 51m 1961-1980 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. No other details available.
Reliability: uncheckable.

164290: TRAPANI ITALY 37.9N 12.5E 79m 1961-1980 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. No other details available.
Reliability: uncheckable.

164500: ENNA ITALY 37.6N 14.3E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 37 34'N 14 17'E, alt = 965m.
Reliability: uncheckable.

164600: CATANIA ITALY 37.5N 15.1E 65m 1892-1980 20 1892
Sources: A1, A8, A106, A129

Notes: A1: 1892-1920; means of (hours not given). Alt = 65m. 1921-1940; 1/4(09 + 21 + max + min) Central European Time. 1941-1950; 1/4(08 + 19 + max + min) 15E meridian time. 1961-1970; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) GMT. Alt = 17m. A8: No details available. A106: Normal values, /CLINO/, only. Press; 1/4(00 + 06 + 12 + 18) reduced to MSL. Temp; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 1946-1960; means are corrected to those of 1931-1960 by correlation with the nearest station. A129: 37 30'N 2 35'E of Rome. Alt; 31m. No other details available. Reliability: compared with 162420 & 165970 for the years 1892-1980. Data gaps 1931-1940 & 1951-1960. Corrected for site change in 1961. Correction Factors:

Stations used: 162420 & 165970. Calculation dates; 1961-1980. Correction dates: 1892-1950. Factors: -9 -10 -6 -8 -10 -11 -9 -11 -7 -8 -12 -7.

164700: PANTELLERIA ITALY 36.8N 12.0E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 36 49'N 11 58'E, alt = 170m.
Reliability: uncheckable.

165200: ALGHERO ITALY 40.6N 8.3E 23m 1961-1980 61
Sources: A1

Notes: A1: 1961-1970; 1/8(00 + 03 + ...21) GMT. 40 38'N 8 17'E, alt = 40m.
Reliability: uncheckable.

165600: CAGLIARI/ELMAS ITALY 39.3N 9.1E 18m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1960; 39 15'N 9 03'E, alt = 18m. 1961-1970; 1/8(00 + 03 + ...21)
GMT. Reliability: compared with 165970 for the years 1951-1980.

165970: LUQA MALTA 35.9N 14.5E 80m 1841-1980 20 1853
Sources: A1, A7, A16, A43, A79, A120

Notes: A1: 1/2(max + min). Alt; 80m. A7: Site near Valetta. 1/2(max + min). 35
54'N 14 30'E. Alt; April 1852-Feb 1853; 201ft, Mar 1853-June 1853; 151ft,
July 1853-1861; 234ft, 1865-74; 112ft. 35 54'N 14 31'E, 1875-86; 70ft.
A16: No details available. A43: Rabat. 1881-82; means of 2 daily obs.,
times in source. 1893-1902; 1/2(max + min). 10ft. A79: No details
available. A120: 1883-1900; St. Ignatius College, 35 55'N 14 29'E, 58ft.
1/2(max + min). 1900-53; Valetta Uni. 35 53'N 14 30'E, 175ft. Temp
1903-1953 probably adjusted to Luqa. Reliability: compared with 165600,
162600, 162420 & 162890 for the years 1951-1980, 1871-1980, 1871-1980 &
1866-1980. Corrected for a site change 1881/1882. Correction Factors:
Stations used: 162420. Calculation dates: 1961-1980. Correction dates:
1871-1881. Factors: -27 -25 -14 -5 -1 4 7 5 -9 -17 -24 -24.

166200: THESSALONIKI SEDES GREECE 40.5N 23.0E 1961-1970 61
Sources: A1

Notes: A1: 1961-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. 1961-July
1962; 40 31'N 23 01'E, alt = 32m. Aug 1962-Sept 1964; 40 33'N 22 58'E, alt
= 52m. Oct 1964-1970; 40 33'N 23 01'E, alt = 30m. Reliability: uncheckable.

166220: THESSALONIKI/MIKRA GREECE 40.5N 23.0E 61m 1892-1980 80
Sources: A1, A137

Notes: A1: 1/4(08 + 14 + 20 + 20) Mean East European Time. Alt; 61m. A137: 7
sites used, but all observations reduced to Aristolean University (same
site since 1930) and to 24 hour means. Sites & observation times were; 1)
1892-Jan 1894; 08, 14 & 21h winter time, 07, 14 & 21h summer time, Jan
1895-Nov 1900; 08, 14 & 21, Dec 1900-Jan 1901; 08, 14 & 18, Feb 1901-Mar

1901; 08, 14 & 17, Mar 1901-Nov 1912; 07, 14 & 18. 2) Bulgarian Gymnasium;
1900-June 1912; 07, 14 & 21h. 3) Greek Gymnasium; May 1909-Nov 1922; 08,
14 & 21h. 4) Sedes Flying School; May-Oct 1923, 1936-June 1940 & Jan
1950-May 1959. 5) American Farm School; July 1924-1929; 08, 14 & 21h,
1930-May 1959; 08, 14 + 20. 6) German Weather Station; Nov 1941-July 1944.
7) Aristolean University. Jan 1959 moved 230m E. Reliability: compared
with 166140, 166400 & 167140 for the years 1951-1980. Trend may well be
urban warming.

166410: KERKYRA GREECE 39.6N 19.9E 2m 1852-1980 72 1951
Sources: A1, A7

Notes: A1: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. Alt = 2m.
A7: Means of 1/2(max + min). No other details available. Reliability:
compared with 166400 & 167140 for the years 1951-1980.

166480: LARISSA GREECE 39.6N 22.4E 74m 1899-1980 80
Sources: A1, A137

Notes: A1: Means of 1/4(08 + 14 + 20 + 20) Mean East European Time. 1951-1960;
alt = 72m, 1961-1970 = 74m. A137: 1899-1929; 1/3(08 + 14 + 21). 1930-1949;
1/3(08 + 14 + 20). 1950-1973; 1/4(08 + 14 + 20 + 20). All observations
reduced to means of 24 hours. June 1963-1973; hourly observations were
also taken. 1899-June 1940; observations from the Meteorological Station,
1940-1950; from the Institute for Forage Cultivations &, 1950-1973, from
the Airport. Reliability: compared with 166220, 166410 & 167140 for the
years 1951-1973, 1951-1973 & 1951-1980. Trend may well be urban warming.

166510: LIMMOS GREECE 39.9N 25.1E 17m 1951-1970 61
Sources: A1

Notes: A1: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. 1951-June
1955; 39 53'N 25 04'E, alt = 5m. June 1955-1970; alt = 17m. Reliability:
uncheckable.

166870: ARAXOS GREECE 38.2N 21.4E 23m 1951-1970 61
Sources: A1

Notes: A1: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. 38 10'N 21
25'E, alt = 20m. 1963-1970; alt = 14m. Reliability: uncheckable.

166890: PATRAI GREECE 38.3N 21.7E 3m 1951-1975 81
Sources: A1

Notes: A1: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European time. 38 15'N 21
44'E, alt = 3m. Reliability: compared with 167260 & 167160 for the years
1951-1975. Record has definite warming trend.

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| 167050: | ZAKYNTHOS | GREECE | 37.8N | 20.9E | 8m | 1951-1980 | 62 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1960; 1/4(08 + 14 + 20 + 20) Mean East European Time. 37 47'N 20 53'E, alt = 4m. 1961-Nov 1966; 37 44'N 20 53'E, alt = 4m. 1968-1970; 37 47'N 20 53'E, alt = 8m. Reliability: uncheckable. | | | | | | | |
| 167140: | ATHENS | GREECE | 38.0N | 23.7E | 107m | 1858-1980 | 10 1858 |
| Sources: | AI, A19, A137 | | | | | | |
| Notes: AI: 1895-1920; means of 24 hours, derived from direct observations at 06, 12 & 18h GMT, combined with hourly readings of a thermograph. No corrections were made. 1858-1950; means of 1/2(max + min) 30E meridian time. 1951-1960; means of hourly observations. Alt; 107m. A19: No details available. A137: 1858-1895; means of 08, 14 & 21h reduced to true means of 24 hours by calculating differences of the 24 hour mean for 1895-1930. These correction factors are given on p326 of the source. National Observatory; same site since Sept 1890; 37 58'N 23 05'E. Alt; 107m. Reliability: compared with 166480, 154220 & 170620 for the years 1899-1973, 1858-1980 & 1858-1980. | | | | | | | |
| 167160: | ATHINAI/HELLENIKON | GREECE | 37.9N | 23.7E | 10m | 1951-1980 | 40 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1960; 37 54'N 23 44'E, alt = 9m. 1/4(08 + 14 + 20 + 20) Mean East European Time. 1961-April 1968; 37 54'N 23 48'E, alt = 9m. May 1968-1970; 37 54'N 23 44'E, alt = 15m. Reliability: compared with 166480 for the years 1951-1980. | | | | | | | |
| 167210: | SAMOS | GREECE | 37.7N | 27.0E | 49m | 1951-1970 | 61 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. 37 44'N 27 00'E, alt = 49m. Reliability: uncheckable. | | | | | | | |
| 167260: | KALAMAI | GREECE | 37.0N | 22.0E | 5m | 1951-1980 | 62 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. 37 02'N 22 06'E, alt = 10m. April 1964-1970; alt = 5m. Reliability: uncheckable. | | | | | | | |
| 167340: | MATRONI | GREECE | 36.8N | 21.7E | 34m | 1951-1970 | 61 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-Feb 1953; 36 50'N 21 43'E, alt = 25m. Mar 1953-Feb 1960; alt = 35m. Mar 1960-1970; alt = 34m. 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. Reliability: uncheckable. | | | | | | | |

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| 167460: | SOUDA CRETE | GREECE | 35.6N | 24.1E | 1974-1980 | 61 | |
| Sources: | AI | | | | | | |
| Notes: AI: 1961-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. No other details available. Reliability: uncheckable. | | | | | | | |
| 167540: | HIRAKLION/CRETE | GREECE | 35.3N | 25.2E | 48m | 1951-1980 | 10 1951 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1970; 1/4(08 + 14 + 20 + 20) Mean East European Time. 35 20'N 25 11'E, alt = 48m. Nov 1968-1970; alt = 39m. Reliability: compared with 167140 for the years 1951-1980. | | | | | | | |
| 170300: | SAMSUN | TURKEY | 41.3N | 36.3E | 44m | 1819-1980 | 10 1929 |
| Sources: | AI, A43 | | | | | | |
| Notes: AI: Means of 1/4(07 + 14 + 21 + 21) 30E meridian time. Alt; 1929-1950 = 23m, 1951-1970 = 44m. A43: Temp; 1/2(max + min). Observations were also taken at same time as Prens; 1880-1885; 1/2(1509 + 2109). 1886-1904; means of 1436b. Alt; 1880-1890 = 8m, 1891-1894 = 15m, 1895-1901 = 3m, 1902-1904 = 8m. Reliability: compared with 172200, 170620 & 154220 for the years 1929-1980, 1929-1980 & 1857-1980. Early data are uncheckable because of data gaps. | | | | | | | |
| 170380: | TRABZON | TURKEY | 41.0N | 39.7E | 37m | 1951-1970 | 61 |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1960; 1/4(07 + 14 + 21 + 21). 41 00'N 39 43'E, alt = 37m. 1961-1970; alt = 30m. Reliability: uncheckable. | | | | | | | |
| 170400: | RIZE | TURKEY | 41.0N | 40.5E | 4m | 1929-1980 | 10 1929 |
| Sources: | AI | | | | | | |
| Notes: AI: 1929-1950; 1/4(07 + 14 + 21 + 21) 30E meridian time. 41 02'N 40 30'E, alt = 60m. 1951-1970; alt = 4m. Reliability: compared with 170960 & 170920 for the years 1929-1980 & 1951-1980. | | | | | | | |
| 170500: | EDIRNE | TURKEY | 41.7N | 26.6E | 48m | 1929-1980 | 10 1929 |
| Sources: | AI | | | | | | |
| Notes: AI: 1929-1950; 1/4(07 + 14 + 21 + 21) 30E meridian time. 41 40'N 26 34'E, alt = 47m. 1951-1970; alt = 48m. Reliability: compared with 170620 & 171120 for the years 1929-1980 & 1951-1980. | | | | | | | |
| 170580: | FLORYA | TURKEY | 41.0N | 28.8E | 1961-1970 | 61 | |
| Sources: | AI | | | | | | |
| Notes: AI: 1951-1970; 1/4(07 + 14 + 21 + 21). 40 59'N 28 48'E, alt = 34m. Reliability: uncheckable. | | | | | | | |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|--------|-------|-------|-----------|-----------|----------|---------|---------|----------------|--------|-------|-------|-----------|-----------|------|------|
| 170600: | FLORYA | TURKEY | 41.0N | 28.8E | 1951-1960 | 61 | | 170960: | ERZURUM | TURKEY | 39.9N | 41.3E | 1869m | 1929-1980 | 10 | 1929 | |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1961-1970; 1/4(07 + 14 + 21 + 21) local time. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 170620: | ISTANBUL/GOZTEPE | TURKEY | 41.0N | 29.1E | 40m | 1839-1980 | 12 | 1839 | 171120: | CAMARAKALE | TURKEY | 40.1N | 26.4E | 3m | 1951-1980 | 10 | 1951 |
| Sources: | A1, A7, A29, A35, A56, A57, A123 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: Means of 1/4(07 + 14 + 21 + 21) 30E meridian time. Rain is the total of the daily readings at 07h & is credited to the preceding 24 hours. A7: Scutari, alt = 18m. Means of 1/2(max + min). A29: No details available. A35: No details available. A56: No details available. A57: No details available. A123: Means of 1/2(max + min). No other details available. Reliability: compared with 154220 & 172200 for the years 1857-1980 & 1843-1980. | | | | | | | | | | | | | | | | | |
| 170700: | BOLU | TURKEY | 40.7N | 31.6E | 742m | 1951-1970 | 61 | | 171160: | BURSA | TURKEY | 40.2N | 29.1E | 100m | 1951-1980 | 80 | |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). 40 44'N 31 36'E, alt = 742m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 170740: | KASTAMONU | TURKEY | 41.4N | 33.8E | 799m | 1951-1980 | 10 | 1951 | 171287: | CANKIRI | TURKEY | 40.6N | 33.6E | | 1951-1960 | 61 | |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). 41 22'N 33 46'E, alt = 800m. Reliability: compared with 170300 & 171300 for the years 1951-1980. | | | | | | | | | | | | | | | | | |
| 170800: | CANKIRI | TURKEY | 40.6N | 33.6E | | 1961-1970 | 61 | | 171300: | ANKARA/CENTRAL | TURKEY | 40.0N | 32.9E | 894m | 1926-1980 | 10 | 1926 |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21). 40 36'N 33 37'E, alt = 730m. 1961-1970; alt = 751m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 170900: | SIVAS | TURKEY | 39.8N | 37.0E | 1285m | 1929-1980 | 80 | | 171600: | KIRSEHIR | TURKEY | 39.1N | 34.2E | 985m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1929-1970; 1/4(07 + 14 + 21 + 21) 30E meridian time. 39 45'N 37 01'E, alt = 1285m. Reliability: compared with 170740 & 170920 for the years 1951-1980. Record shows some evidence of a warming trend. | | | | | | | | | | | | | | | | | |
| 170920: | ERZINCAN | TURKEY | 39.7N | 39.5E | 1215m | 1951-1980 | 10 | 1951 | 171700: | VAN | TURKEY | 38.5N | 43.4E | 1661m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21). 39 44'N 39 30'E, alt = 1213m. Station probably moved in Aug 1952 but no details are given. 1961-1970; alt = 1215m. Reliability: compared with 170300 for the years 1951-1980. | | | | | | | | | | | | | | | | | |
| 53 | | | | | | | | | | | | | | | | | |
| 171287: | CANKIRI | TURKEY | 40.6N | 33.6E | | 1951-1960 | 61 | | 171900: | AYTON | TURKEY | 38.8N | 30.5E | 1034m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: A1: 1961-1970; 1/4(07 + 14 + 21 + 21) local time. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1926-1950; 1/4(07 + 14 + 21 + 21) 30E meridian time. 39 55'N 41 16'E, alt = 1892m. 1951-1960; alt = 1893m. 1961-1970; alt = 1869m. Reliability: compared with 170400 & 170920 for the years 1929-1980 & 1951-1980. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). 40 08'N 26 24'E, alt = 3m. Reliability: compared with 170500 for the years 1951-1980. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). 40 11'N 29 04'E, alt = 100m. 1/4(07 + 14 + 21 + 21). Reliability: compared with 170500 & 170620 for the years 1951-1980. Record shows two separate trends. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/4(07 + 14 + 21 + 21) local time. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1926-1950; 1/4(07 + 14 + 21 + 21) 30E meridian time. 39 57'N 32 53'E, alt = 891m. 1951-1960; alt = 902m. 1961-1970; 894m. Reliability: compared with 170300 & 170740 for the years 1926-1980 & 1951-1980. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 1/4(07 + 14 + 21 + 21). 39 08'N 34 10'E, alt = 985m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21). 38 28'N 43 21'E, alt = 1732m. Station probably moved in May 1960 but no details are given. 1961-1970; alt = 1725m. Reliability: compared with 170960 for the years 1951-1980. | | | | | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(07 + 14 + 21 + 21). 38 45'N 30 32'E, alt = 1020m. 1961-1970; alt = 1034m. Reliability: compared with 172920 & 172200 for the | | | | | | | | | | | | | | | | | |

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| years 1951-1980. | | | | | | | |
| 171950: KAYSERI/ERKILET | TURKEY | 38.6N | 35.5E | 1070m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1960; 1/4(07 + 14 + 21 + 21). 38 43'N 35 29'E, alt = 1071m. 1961-1970; alt = 1068m. Reliability: compared with 172440 & 173500 for the years 1951-1980. | | | | | | |
| 172000: MALATYA | TURKEY | 38.4N | 38.3E | 998m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1960; 1/4(07 + 14 + 21 + 21). 38 21'N 38 18'E, alt = 977m. 1961-1970; alt = 998m. Reliability: compared with 170300 for the years 1951-1980. | | | | | | |
| 172020: ELAZIG | TURKEY | 38.7N | 39.2E | 882m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1970; 1/4(07 + 14 + 21 + 21). 38 40'N 39 30'E, alt = 1105m. Reliability: uncheckable. | | | | | | |
| 172100: SİIRT | TURKEY | 37.9N | 41.9E | 895m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1970; 1/4(07 + 14 + 21 + 21). 37 56'N 41 56'E, alt = 895m. Reliability: uncheckable. | | | | | | |
| 172200: İZMİR | TURKEY | 38.4N | 27.3E | 25m | 1843-1980 | 10 | 1929 |
| Sources: | A1, A29, A31, A43 | | | | | | |
| Notes: | Station was also known as Smyrna. All: Means of 1/4(07 + 14 + 21 + 21) 30E meridian time. 1921-1950; Alt = 4m, 1951-1970 = 25m. A29: 1843-1844; means of 1409h. 1857-1874; 1/3(07 + 14 + 21). 1902-1907; 1/4(07 + 09 + 14 + 21). Alt; 10m. A31: No details available. A43: 1/2(max + min). 1908-1913; 38 26'N 24 49'E of Paris, alt = 1m. Reliability: compared with 170620 & 170300 for the years 1929-1980. | | | | | | 64 |
| 172400: İSPARTA | TURKEY | 37.8N | 30.6E | 1043m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1960; 1/4(07 + 14 + 21 + 21). 37 45'N 30 33'E, alt = 1052m. 1961-1970; alt = 997m. Reliability: compared with 172440 for the years 1951-1980. | | | | | | |
| 172440: KONYA | TURKEY | 37.9N | 32.5E | 1022m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1960; 1/4(07 + 14 + 21 + 21). 37 52'N 32 30'E, alt = 1026m. 1961-1970; alt = 1029m. Reliability: compared with 173500 & 176060 for the years 1951-1980 & 1951-1974. | | | | | | |
| 172497: ULUKISLA | TURKEY | 37.6N | 34.5E | | 1951-1960 | 61 | |
| Sources: | A1 | | | | | | |
| Notes: | All: 1961-1970; 1/4(07 + 14 + 21 + 21) local time. No other details available. Reliability: uncheckable. | | | | | | |
| 172500: ULUKISLA | TURKEY | 37.6N | 34.5E | | 1961-1970 | 61 | |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1960; 1/4(07 + 14 + 21 + 21). 37 33'N 34 29'E, alt = 1430m. 1961-1970; alt = 1451m. Reliability: uncheckable. | | | | | | |
| 172600: GAZIANTEP | TURKEY | 37.1N | 37.4E | 840m | 1951-1970 | 61 | |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1960; 1/4(07 + 14 + 21 + 21). 37 05'N 37 22'E, alt = 840m. 1961-1970; alt = 855m. Reliability: uncheckable. | | | | | | |
| 172700: URFA | TURKEY | 37.1N | 38.8E | 547m | 1900-1980 | 10 | 1951 |
| Sources: | A1, A29 | | | | | | |
| Notes: | All: Alt; 547m. Means of 1/4(07 + 14 + 21 + 21). A29: Alt; 564m. Site; 37.2N 38.8E. No other details available. Reliability: compared with 170300 for the years 1951-1980. | | | | | | |
| 172800: DIYARBAKIR | TURKEY | 37.9N | 40.2E | 677m | 1929-1980 | 10 | 1929 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1929-1950; 1/4(07 + 14 + 21 + 21) 30E meridian time. 37 55'N 40 12'E, alt = 653m. 1951-1960; alt = 677m. 1961-1970; alt = 676m. Reliability: compared with 170960 for the years 1929-1980. | | | | | | |
| 172920: MUĞLA | TURKEY | 37.2N | 28.4E | 646m | 1951-1980 | 10 | 1951 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1951-1970; 1/4(07 + 14 + 21 + 21). 37 12'N 28 21'E, alt = 646m. Reliability: compared with 172200 & 171900 for the years 1951-1980. | | | | | | |
| 173000: ANTALYA | TURKEY | 36.9N | 30.7E | 43m | 1929-1980 | 10 | 1930 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1929-1960; 1/4(07 + 14 + 21 + 21) 30E meridian time. 36 53'N 30 42'E, alt = 43m. 1961-1970; alt = 42m. Reliability: compared with 172200 for the years 1930-1980. | | | | | | |
| 173500: ADANA INCIRLIK | TURKEY | 37.0N | 35.3E | 66m | 1929-1980 | 10 | 1929 |
| Sources: | A1 | | | | | | |
| Notes: | All: 1929-1950; 1/4(07 + 14 + 21 + 21) 30E meridian time. 36 59'N 35 18'E, alt = 24m. 1951-1970; alt = 20m. Reliability: compared with 171300 & 172200 for the years 1929-1980. | | | | | | |

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| 176060: | NICOSIA | CYPRUS | 35.2N | 33.3E | 220m | 1887-1974 | 10 | 1887 | Sources: A1, A54 | 203530: | MYS ZELANIJA | USSR | 77.0N | 68.6E | 1931-1960 | 10 | 1931 | |
| <i>Notes: Alt: Means of 1/2(max + min). Alt; 1901-Aug 1939 = 522ft, Sept 1939-1950 = 508ft, 1951-1960 = 218m, 1961-1970 = 220m. A54: Alt; 155m. No other details available. Reliability: compared with 176107 for the years 1887-1950.</i> | | | | | | | | | | | | | | | | | | |
| 176090: | LARNAKA | CYPRUS | 34.9N | 33.6E | 6m | 1881-1909 | 81 | | Sources: A29 | 206740: | OSTROV DIKSON | USSR | 73.5N | 80.4E | 20m | 1917-1980 | 10 | 1917 |
| <i>Notes: A29: Means of 1/4(09 + 21 + max + min). 1881-1902; Alt = 11m. 1903-1909; Alt = 6m. Reliability: compared with 176060 & 176107 for the years 1881-1909.</i> | | | | | | | | | | | | | | | | | | |
| 176107: | LIMASSOL | CYPRUS | 34.7N | 32.0E | 8m | 1887-1950 | 81 | | Sources: A54 | 207440: | MALYE KARMAKULY | USSR | 72.4N | 52.7E | 46m | 1897-1963 | 10 | 1897 |
| <i>Notes: A54: Alt; 8m. No other details available. Reliability: compared with 176060 for the years 1887-1950.</i> | | | | | | | | | | | | | | | | | | |
| 200460: | DRUJNAYA/OSTROVHEJSA | USSR | 80.6N | 58.1E | 20m | 1957-1980 | 10 | 1957 | Sources: A1 | 208910: | HATANGA/KHATANGA | USSR | 72.0N | 102.5E | 24m | 1951-1980 | 10 | 1951 |
| <i>Notes: Alt: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 80 37'N 58 03'E, alt = 20m. Reliability: compared with 200690 & 206740 for the years 1957-1980.</i> | | | | | | | | | | | | | | | | | | |
| 200690: | OSTROV VIZE | USSR | 79.5N | 77.0E | 18m | 1951-1980 | 10 | 1951 | Sources: A1 | 214320: | OSTROV KOTELNYJ | USSR | 76.0N | 137.9E | 10m | 1951-1980 | 10 | 1951 |
| <i>Notes: Alt: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 79 30'N 76 59'E, alt = 18m. Reliability: compared with 200460 & 206740 for the years 1957-1980 & 1951-1980.</i> | | | | | | | | | | | | | | | | | | |
| 202740: | OSTROV UEDINENIJA | USSR | 77.5N | 82.2E | | 1951-1960 | 11 | 1951 | Sources: A1 | 216470: | MYS SALAUROYA | USSR | 73.2N | 143.9E | | 1951-1960 | 11 | 1951 |
| <i>Notes: Alt: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 77 30'N 82 14'E, alt = 9m. Reliability: compared with 200690 for the years 1951-1960.</i> | | | | | | | | | | | | | | | | | | |
| 202920: | MYS CELJUSKIN | USSR | 77.7N | 104.3E | 13m | 1951-1980 | 10 | 1951 | Sources: A1 | 218240: | BUKHTA TIBRAYHA | USSR | 80.3N | 52.6W | | 1929-1963 | 10 | 1929 |
| <i>Notes: Alt: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 77 43'N 104 17'E, alt = 13m. Reliability: compared with 206740 for the years 1951-1980.</i> | | | | | | | | | | | | | | | | | | |
| <i>Notes: Alt: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 206740 for the years 1929-1963.</i> | | | | | | | | | | | | | | | | | | |

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| 219460: | COKURDAH | USSR | 70.6N | 147.9E | 48m | 1951-1980 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 70 37'N 147 53'E, alt = 48m. Reliability: compared with 219650 for the years 1951-1980. | |
| 219650: | CETYREHSTOLBOVOI | USSR | 70.6N | 162.4E | 6m | 1951-1980 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 70 38'N 162 24'E, alt = 6m. Reliability: compared with 219460 for the years 1951-1980. | |
| 219820: | OSTROV VRANGELJA | USSR | 71.0N | 178.5W | | 1951-1960 | 11 | 1951 | Sources: A1 | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 70 58'N 178 32'W, alt = 3m. Reliability: compared with 251730 for the years 1951-1960. | |
| 221120: | KOLA | USSR | 68.9N | 33.0E | | 1901-1954 | 10 | 1901 | Sources: A1 | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 225500 for the years 1901-1954. | |
| 221130: | MURMANSK | USSR | 69.0N | 33.1E | 46m | 1951-1980 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1970; 68 58'N 33 03'E, alt = 46m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 225500 for the years 1951-1980. | |
| 221650: | KANIN NOS | USSR | 68.7N | 43.3E | | 1951-1980 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1970; 68 39'N 43 18'E, alt = 0m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 225500 for the years 1951-1980. | |
| 224220: | GRIDINO | USSR | 65.9N | 34.8E | 10m | 1951-1970 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1970; 65 54'N 34 46'E, alt = 10m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 225500 for the years 1951-1970. | |
| 225220: | KEM PORT | USSR | 65.0N | 34.8E | | 10m | 1862-1970 | 60 | Sources: A1, A2, A8, A13 | Notes: A1: Alt; 10m. No details given, but probably means of 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. A2: 1876-1882; alt = 5m. No other details available. A8: No details available. A13: Alt; 10m. 1862-Nov 1862; 1/3(08 + 1/2(00 + 16) + 20), Nov 1862-May 1865; 1/3(06 + 14 + 22), Oct 1865-Dec 1862; 1/3(07 + 13 + 21). Corrections given on pXIII. Reliability: uncheckable. | |
| 225500: | ARKHANGELSK | USSR | 64.6N | 40.6E | | 13m | 1813-1980 | 10 | 1813 | Sources: A1, A2, A13, A35 | Notes: A1: 1881-1920; alt = 7m. Means of 1/3(07 + 13 + 21), reduced to means of 24 hours using corrections from Wild. These mean temps were reduced to a standard level for the station by assuming a decrease of -0.45C for each 100m of alt. 1921-1935; 1/3(07 + 13 + 21) local time, corrected to means of 24 hours. 1936-1950; 1/4(01 + 07 + 13 + 19) local time. Alt; 10m. 1951-1970; Alt; 13m. No details given about means, but presumed to be same as above. NB. Station moved in Aug 1935 to 64 35'N 40 30'E, alt = 7m. Corrections for the period 1881-1915 & for an unspecified date change are given on pXIII, vol 79. A2: No details available. A13: Alt; 10m. 13 different observation times & means were used. Details of these & their corrections are given on pIII of the source. A35: No details available. Reliability: compared with 276120 & 221120 for the years 1813-1980 & 1901-1954. |
| 226020: | REBOLY | USSR | 63.8N | 30.8E | | 181m | 1951-1980 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1970; 63 49'N 30 49'E, alt = 181m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 225500 for the years 1951-1980. |
| 227680: | SHENKURSK | USSR | 62.1N | 42.9E | | 1901-1954 | 10 | 1901 | Sources: A1 | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 225500 for the years 1901-1954. | |
| 228020: | SORTOVALA | USSR | 61.7N | 30.7E | | 18m | 1951-1970 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1970; 61 43'N 30 43'E, alt = 18m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 226020 for the years 1951-1970. |
| 228200: | PETROZAVODSK | USSR | 61.8N | 34.3E | | 40m | 1816-1979 | 12 | 1951 | Sources: A1, A2, A35 | Notes: A1: Alt; 40m. No details given, but probably 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. A2: No details available. A35: No |

details available. Reliability: compared with 225500 for the years 1816-1980. Early record incompatible with later record.

228370: VYTEGRA USSR 61.0N 36.5E 59m 1963-1980 11 1963
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 228200 & 225500 for the years 1963-1980.

228540: NJANDOMA USSR 61.7N 40.2E 224m 1951-1970 10 1951
Sources: A1

Notes: A1: 1951-1970; 61 40'N 40 11'E, alt = 224m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. Reliability: compared with 228200 & 225500 for the years 1951-1970 & 1963-1980.

230740: DUDINKA USSR 69.4N 86.2E 1906-1960 10 1906
Sources: A1

Notes: A1: 1906-1960; 1/3(07 + 13 + 21) corrected to mean of 24 hours by corrections given on pxii, vol 79. Reduced to standard alt of 20m by assuming a decrease of -0.6C for every 100m. 69 23'N 86 04'E, alt = 20m. 1961-1970; 69 24'N 86 10'E, alt = 28m. Reliability: compared with 234720 & 206740 for the years 1906-1960 & 1917-1960.

231460: MYS KAMENNYJ USSR 68.5N 73.6E 7m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 206740 & 233300 for the years 1951-1980.

232050: MAR JAN-MAR USSR 67.7N 53.0E 7m 1961-1980 10 1961
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 225500 for the years 1961-1980.

232190: NOSEDA-HARD USSR 67.1N 59.4E 81m 1963-1980 11 1963
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 225500 for the years 1963-1980.

233300: SALEHARD USSR 66.5N 66.5E 35m 1883-1980 10 1883
Sources: A1, A51

Notes: A1: 1882-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours. Alt = 26m. 1951-1960; alt = 35m. No details given, but probably means of 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. A51: Alt = 26m. No other details available. Reliability: compared with 225500 & 234720 for the years 1881-1980.

234720: TURUHANSK USSR 65.9N 87.6E 37m 1881-1980 10 1881
Sources: A1, A51

Notes: A1: 1881-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours. Temp reduced to a standard alt by assuming a decrease of .6C for every 100m. 1916-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Site; 1881-Aug 1911; 65 55'N 87 38'E, alt = 40m. Oct 1911-1915; 65 47'N 88 47'E, alt = 45m. 1916-1960; 65 47'N 87 57'W. Alt; 1915-1950 = 45m, 1951-1960 = 32m. A51: Alt = 40m. No other details available. Reliability: compared with 238490 & 282750 for the years 1885-1980 & 1881-1980.

235520: TARRO-SALE USSR 64.9N 77.8E 27m 1963-1980 11 1963
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 234720 for the years 1963-1980.

236310: BEREZOV USSR 63.9N 65.1E 20m 1881-1960 10 1881
Sources: A1, A51

Notes: A1: 1881-1920; 1/3(07 + 13 + 21) corrected to means of 24 hours. Temp reduced to a standard height by assuming a decrease of .6C for every 100m. Alt; 46m. 1921-1935; 1/3(07 + 13 + 21) local time. Alt; 40m. 1936-1960; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. Alt; 43m. NB. Corrections to reduce temp to means of 24 hours, for 1881-1915, are given on pxii, vol 79. A51: Alt; 32m. No other details available. Reliability: compared with 238490 for the years 1881-1960.

237240: NJAKSIMVOL USSR 62.4N 60.9E 50m 1963-1980 11 1963
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 238490 & 239330 for the years 1963-1980.

238040: BIKTYVKAR USSR 61.7N 50.9E 96m 1817-1980 10 1817
Sources: A35, A70

Notes: A35: No details available. A70: A combination of; 1/3(06 + 12 + 22), 1/3(06 + 14 + 22), 1/4(07 + 14 + 21 + 21) & 1/3(09 + 12 + 20). Corrections, but no other details are given on pxcviii. Alt; 100m. Reliability:

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| 249440: OLEKMINSK Sources: A1, A8 | USSR | 60.4N 120.4E | 226m 1882-1960 10 1882 | 253250: UST -OLOJ Sources: A1 | USSR | 66.6N 159.4E | 125m 1962-1980 11 1962 |
| Notes: A1: 1881-1925; 1/3(07 + 13 + 21) corrected to the means of 24 hours, by corrections given on pxi, vol 79. Alt; 152m. 1926-1935; 1/3(07 + 13 + 21) local time corrected to the means of 24 hours. 1936-1940: 1/4(01 + 07 + 13 + 19) local time. Alt; 105m. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. Alt = 141m. 1951-1960; alt = 226m. 1881-1925 temp reduced to a standard height, by assuming a decrease of .6C for every 100m. A8: No details available. Reliability: compared with 249590 for the years 1882-1960. | | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 254000 for the years 1962-1980. | | | | | |
| 249590: JAKUTSK Sources: A1, A13, A35, A51 | USSR | 62.0N 129.7E | 103m 1829-1980 10 1882 | 253990: MYS UZLEN Sources: A1 | USSR | 66.2N 169.8W | 7m 1951-1980 10 1951 |
| Notes: A1: Site; 1882-1950; 62 01'N 129 43'E. 1951-1960; 62 05'N 129 45'E, alt = 103m. 1888-1920; 1/3(07 + 13 + 21) corrected to the means of 24 hours, see pxi, vol 79. Alt = 102m. 1921-1930; 1/3(07 + 13 + 21). Alt = 108m. 1916-1920; corrections on p583. 1931-1936; 1/3(07 + 13 + 21) local time corrected to means of 24 hours. Alt; 106m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. 1888-1920 temp reduced to standard height by assuming .6C decrease for every 100m. A13: 62 01'N 129 42'E, alt = 160m. 1829-Mar 1844; 1/3(07 + 13 + 22). April 1844-Feb 1854; 1/3(06 + 14 + 22), 1/2(09 + 21) & 1/2(10 + 22) also used. Corrections on pXII. A35: No details available. A51: Alt; 163m. No other details available. Reliability: compared with 249440 & 242660 for the years 1882-1960 & 1885-1980. | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 66 10'N 169 50'W, alt = 7m. Reliability: compared with 251730 for the years 1951-1980. | | | | | | |
| 249660: UST MAJA Sources: A1 | USSR | 60.4N 134.5E | 175m 1893-1960 10 1893 | 254000: ZYRJANKA Sources: A1 | USSR | 65.7N 150.9E | 43m 1951-1980 10 1951 |
| Notes: A1: 1893-1921; means of (hours not given). Alt; 100m. 1925-1935; 1/3(07 + 13 + 21) local time, corrected to means of 24 hours. Alt; 163m. 1931-1950; alt = 178m. 1936-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. 1951-1960; alt = 175m. Reliability: compared with 249590 for the years 1893-1960. | | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 65 44'N 150 54'E, alt = 43m. Reliability: compared with 246880 for the years 1951-1980. | | | | | |
| 251730: MYS SMIDTA Sources: A1 | USSR | 68.9N 179.5W | 7m 1951-1980 10 1951 | 25510: MARKOVA Sources: A1 | USSR | 64.7N 170.4E | 1951-1960 11 1951 |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 68 55'N 179 29'W, alt = 7m. Reliability: compared with 253990 for the years 1951-1980. | | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 64 41'N 170 25'E, alt = 33m. Reliability: compared with 255630 for the years 1951-1960. | | | | | |
| 252480: ILIRNEJ Sources: A1 | USSR | 67.3N 168.2E | 426m 1951-1980 10 1951 | 255630: ANADYR Sources: A1 | USSR | 64.8N 177.6E | 62m 1898-1980 10 1898 |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 67 20'N 168 14'E, alt = 426m. Reliability: compared with 255630 for the years 1951-1980. | | Notes: A1: 1898-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours. Reduced to a standard height, by assuming a decrease of .6C for every 100m. Alt = 23m. 1926-1935; 1/3(07 + 13 + 21) local meridian time. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. 1951-1960; alt = 62m. Reliability: compared with 310880 & 313690 for the years 1898-1980. | | | | | |
| 255940: BUHTA PROVIDENIJA Sources: A1 | USSR | 64.4N 173.2W | 1951-1960 11 1951 | 255940: BUHTA PROVIDENIJA Sources: A1 | USSR | 64.4N 173.2W | 1951-1960 11 1951 |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 64 26'N 173 14'W, alt = 3m. Reliability: compared with 253990 for the years 1951-1980. | | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 62 55'N 152 25'E, alt = 207m. Reliability: compared with 259540 for the years 1951-1980. | | | | | |
| 257030: SEJMCAN Sources: A1 | USSR | 62.9N 152.4E | 207m 1951-1980 10 1951 | 257030: SEJMCAN Sources: A1 | USSR | 62.9N 152.4E | 207m 1951-1980 10 1951 |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 62 55'N 152 25'E, alt = 207m. Reliability: compared with 259540 for the years 1951-1980. | | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 62 55'N 152 25'E, alt = 207m. Reliability: compared with 259540 for the years 1951-1980. | | | | | |

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| 257440: KAMENSKOE | USSR | 62.5N | 166.2E | 106m | 1963-1980 | 10 | 1963 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 259540 for the years 1963-1980. | | | | | | | | | | | | |
| 259540: KORF | USSR | 60.4N | 166.0E | 2m | 1951-1980 | 10 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 60 21'N 166 00'E. Reliability: compared with 257030 for the years 1951-1980. | | | | | | | | | | | | |
| 259560: APUKA | USSR | 60.5N | 169.6E | 10m | 1951-1963 | 11 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 60 27'N 169 35'E, alt = 8m. Reliability: compared with 259540 for the years 1951-1963. | | | | | | | | | | | | |
| 260380: TALLIN | USSR | 59.4N | 24.8E | 44m | 1806-1980 | 12 | 1806 | | | | | |
| Sources: A1, A2, A70 | | | | | | | | | | | | |
| Notes: A2: Alt; 0m, but unknown for 1850-1865. A70: A combination of; 1/3(05 + 14 + 22), 1/3(06 + 12 + 20), 1/3(04 + 14 + 22), 1/3(06 + 14 + 22), 1/3(07 + 14 + 21), 1/3(08 + 14 + 22), 1/4(07 + 14 + 21 + 21) & 1/3(07 + 13 + 21). Corrections, but no other details are given on pCXXXI. A1: 1951-1970; alt = 44m. No other details available. Reliability: compared with 260630 & 264220 for the years 1806-1980. | | | | | | | | | | | | |
| 260630: LENINGRAD/TOWN/VILLE USSR | | 60.0N | 30.3E | 4m | 1740-1980 | 20 | 1743 | | | | | |
| Sources: A1, A2, A13, A111 | | | | | | | | | | | | |
| Notes: A1: 1871-1935; means of 1/3(07 + 13 + 21), corrected to means of 24 hours, local time. Alt; 5m. In July 1933 the station moved, no details given. 1936-1970; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. 1951-1970; alt = 4m. NB. 1871-1920; temp reduced to a standard height by assuming a decrease of .45C for every 100m. A2: No details available. A13: No details available. A111: No details available. Reliability: compared with 260380, 264220 & 276120 for the years 1806-1980, 1795-1970 & 1779-1980. Corrected for a site move in 1881. Correction Factors: Stations used: 264220. Calculation dates: 1901-1970. Correction dates: 1743-1880. Factors: 8 4 9 14 14 11 12 17 14 8 10 13. | | | | | | | | | | | | |
| 260637: KRONSTADT | USSR | 60.0N | 29.8E | 20m | 1844-1882 | 13 | 1844 | | | | | |
| Sources: A2, A70 | | | | | | | | | | | | |
| Notes: A2: Alt; 20m. No other details available. A70: A combination of; 1/3(06 + 14 + 22), 1/3(06 + 12 + 20) & 1/3(07 + 13 + 21). Corrections, but no other details are given on pCXXVII. Reliability: compared with 260630 for the years 1844-1875. | | | | | | | | | | | | |
| 261790: NISCHNEY NOVGOROD | USSR | 58.5N | 31.3E | | | | | | | | | |
| Sources: A35 | | | | | | | | | | | | |
| Notes: A35: No details available. Reliability: compared with 260630 for the years 1835-1853. | | | | | | | | | | | | |
| 262310: DORPAT | USSR | 58.4N | 24.5E | 10m | 1828-1882 | 33 | | | | | | |
| Sources: A2, A35, A70 | | | | | | | | | | | | |
| Notes: A2: Alt; 10m. No other details available. A35: No details available. A70: A combination of; 1/2(10 + 22) & 1/3(07 + 14 + 23). Corrections, but no other details are given on pCIXX. Reliability: compared with 260380 & 260630 for the years 1828-1875. | | | | | | | | | | | | |
| 262330: PELLIN | USSR | 58.4N | 25.6E | 61m | 1824-1847 | 13 | 1824 | | | | | |
| Sources: A35 | | | | | | | | | | | | |
| Notes: A35: Alt; 61m. No other details available. Reliability: compared with 260380 & 260630 for the years 1824-1847. | | | | | | | | | | | | |
| 262380: IDWEN | USSR | 57.9N | 25.2E | 60m | 1853-1867 | 13 | 1853 | | | | | |
| Sources: A70 | | | | | | | | | | | | |
| Notes: A70: Alt; 60m. Means of 1/3(06 + 14 + 22). Corrections are given on pC. Reliability: compared with 260630 & 260380 for the years 1853-1867. | | | | | | | | | | | | |
| 262580: PSKOV | USSR | 57.8N | 28.4E | 42m | 1951-1979 | 10 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 57 50'N 28 21'E, alt = 42m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 260380 for the years 1951-1979. | | | | | | | | | | | | |
| 262890: VALDAJ | USSR | 58.0N | 33.2E | 219m | 1951-1970 | 10 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 57 58'N 33 14'E, alt = 219m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 260630 for the years 1951-1980. | | | | | | | | | | | | |
| 262980: BOLOGOR | USSR | 57.9N | 34.1E | 178m | 1951-1970 | 10 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: A1: 1951-1970; 57 54'N 34 03'E, alt = 178m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 260630 & 262890 for the years 1951-1970. | | | | | | | | | | | | |

264060: LIEPAJA USSR 56.6N 21.0E 8m 1951-1970 10 1951
 Sources: A1

Notes: A1: 1951-1970; 56 33'N 21 01'E, alt = 8m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 264220 for the years 1951-1970.

264220: RIGA USSR 57.0N 24.1E 3m 1795-1970 12 1795
 Sources: A1, A2, A8, A35, A70, A150

Notes: A1: Alt; 3m. No details, but probably 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. A2: No details available. A8: No details available. A35: No details available. A70: A combination of; 1/3(07 + 12 + 22), 1/3(08 + 12 + 22), 1/3(0700 + 1330 + 2130), 1/3(06 + 14 + 22), 1/3(07 + 13 + 21) & 1/3(08 + 13 + 21). Corrections are given on plXXIV. Alt; 10m. A150: 56 57'N 24 06'E, alt = 13m. Anomalies from real means for period 1851-1900. Series has probably been corrected. Reliability: compared with 260630 & 276120 for the years 1795-1970.

264250: MITAU USSR 56.7N 23.7E 10m 1823-1872 13 1823
 Sources: A35, A70, A117

Notes: A35: No details available. A70: A combination of; 1/3(07 + 12 + 22), 1/3(08 + 15 + 22), 1/3(08 + 14 + 22), 1/3(0630 + 1400 + 2200), 1/3(07 + 13 + 21) & 1/3(06 + 14 + 22). Corrections, but no other details are given on plXXVII. Alt; 10m. A117: Alt; 13ft. No other details available. Reliability: compared with 264220 for the years 1823-1872.

264770: VELIKIE LUKI USSR 56.4N 30.6E 98m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1970; 56 23'N 30 36'E, alt = 98m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 266290 for the years 1951-1980.

266150: SOVETSK USSR 55.1N 21.8E 1820-1930 13 1820
 Sources: A35, A169

Notes: Also known as Tilsit. A35: Anomalies from mean (no years given). No other details available. A169: Alt; 18m. No other details available. Reliability: compared with 267020 & 264220 for the years 1848-1866 & 1820-1866.

266290: KAUNAS USSR 54.9N 23.9E 75m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1970; 54 53'N 23 53'E, alt = 75m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 264770 for the years 1951-1980.

267020: KALININGRAD USSR 54.7N 20.5E 27m 1848-1970 10 1848
 Sources: A1, A35

Notes: Also known as Konigsberg. A1: 1851-1857; 1/3(06 + 14 + 22). 1858-1960; 1/4(07 + 14 + 21 + 21). Alt; 1851-May 1887 = 20m, June 1887-Sept 1889 = 15m, Oct 1889-1920 = 5m. On July 1, 1887 the station was moved & the thermometer exposed in a Wild shelter. In Oct 1889 it moved again & thermometers were exposed in an English shelter. 1851-1855; mean temps are about 0.5C too high. 1921-1930; alt = 118m. In 1940 the station moved from 54 43'N 20 30'E, alt 25m, to 54 44'N 20 34'E, alt 6m. Observations made at 15K meridian time. 1951-1970; Site = 54 42'N 20 37'E, alt = 27m. A35: Alt; 68m. No other details available. Reliability: compared with 264220 & 276120 for the years 1848-1970.

267300: VIL'NIUS USSR 54.6N 25.3E 189m 1777-1970 10 1777
 Sources: A1, A2, A8, A13, A35

Notes: Also known as Wilna. A1: 1881-1915; means of (hours not given). Alt; 148m. 1916-1940; 1/4(07 + 13 + 21 + 21) 30E meridian time. Alt; 136m. 1941-1970; 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. Alt; 1951-1960 = 100m, 1961-1970 = 189m. NB. 1881-1920 temps are reduced to a standard height by assuming a decrease of .45C for every 100m. A2: No details available. A8: No details available. A13: Alt; 120m. 1777-June 1849; no details given. July 1849-May 1853; 1/2(10 + 22). June 1853-April 1858; 1/4(04 + 10 + 16 + 22). May 1858-1869; 1/3(06 + 14 + 22). 1870-Nov 1876; 1/2(06 + 22). Dec 1876-1880; 1/3(07 + 13 + 21). Corrections are given on pV. A35: No details available. Reliability: compared with 260630 & 276120 for the years 1779-1970.

267810: SMOLEN SK USSR 54.8N 32.1E 241m 1951-1979 10 1951
 Sources: A1

Notes: A1: 1951-1970; 54 45'N 32 04'E, alt = 241m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 268500 for the years 1951-1979.

268300: SLATOUST USSR 55.2N 59.7E 410m 1837-1882 13 1837
 Sources: A2, A35, A70

Notes: A2: Alt; 410m. No other details available. A35: No details available. A70: A combination of; 1/4(08 + 14 + 22 + 22), 1/3(06 + 14 + 22) & 1/3(07 + 13 + 21). Corrections, but no other details are given on plXXXV. Reliability: compared with 276120 for the years 1837-1875.

268500: MINSK USSR 53.9N 27.5E 234m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1970; 53 52'N 27 32'E, alt = 234m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 267810 for the years 1951-1980.

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| 268980: | BRJANSK | USSR | 53.3N | 34.2E | 162m | 1951-1970 | 10 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: | All: 1951-1970; 53 20'N 34 14'E, alt = 162m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 276120 for the years 1951-1970. | | | | | | | | | | |
| 270370: | VOLOGDA | USSR | 59.3N | 39.9E | 118m | 1951-1980 | 10 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: | All: 1951-1970; 59 17'N 39 52'E, alt = 118m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 276120 for the years 1951-1970. | | | | | | | | | | |
| 271960: | KIROV | USSR | 58.7N | 49.6E | 164m | 1845-1980 | 12 | 1845 | | | |
| Sources: | A1, A13 | | | | | | | | | | |
| Notes: | Also known as Wjatka. All: Alt; 164m. No details given, but probably means of 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. A13: Alt; 180m. 1845-Jan 1852 = 1/2(09 + 21). Feb 1852-Dec 1861 = 1/3(07 + 14 + 21). 1874-1880 = 1/3(07 + 13 + 19). Corrections given on pXIV. Reliability: compared with 275950 for the years 1845-1980. | | | | | | | | | | |
| 274537: | BALACHNA | USSR | 56.5N | 43.6E | 60m | 1842-1875 | 33 | | | | |
| Sources: | A70 | | | | | | | | | | |
| Notes: | A70: A combination of; 1/2(09 + 21), 1/2(08 + 20) & 1/3(07 + 13 + 21). Corrections, but no other details are given on pCLIII. Alt; 60m. Reliability: compared with 276120 for the years 1842-1875. | | | | | | | | | | |
| 275530: | GORKIJ | USSR | 56.2N | 43.8E | 82m | 1951-1970 | 10 | 1951 | | | |
| Sources: | A1, A2 | | | | | | | | | | |
| Notes: | All: 1951-1960; 56 13'N 43 49'E, alt = 82m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. A2: Alt; 210m. No other details available. Reliability: compared with 270370 for the years 1951-1970. | | | | | | | | | | |
| 275950: | KAZAN | USSR | 55.8N | 49.1E | 64m | 1812-1980 | 12 | 1812 | | | |
| Sources: | A1, A2, A35, A70 | | | | | | | | | | |
| Notes: | All: Alt; 1881-1930 = 81m, 1931-1950 = 82m, 1951-1970 = 64m. 1881-1940; 1/3(07 + 13 + 21) local time, corrected to means of 24 hours. Reduced to a standard height, by assuming a decrease of .45C for each 100m. 1941-1970; 1/4(01 + 07 + 13 + 19) local time, reduced to the mean of 24 hours. A2: Alt; 80m. No other details available. A35: No details available. A70: A combination of; 1/3(07 + 12 + 20), 1/4(07 + 14 + 21 + 21), 1/2(09 + 21), 1/3(07 + 13 + 21) & 1/3(08 + 13 + 21). Corrections but no other details are given on pLXXXI. Reliability: compared with 276120 & 271960 for the years 1812-1980 & 1845-1980. | | | | | | | | | | |
| 276120: | MOSKVA | USSR | 55.8N | 37.6E | 156m | 1779-1980 | 10 | 1779 | | | |
| Sources: | A1, A2, A35 | | | | | | | | | | |
| Notes: | All: 1881-1935; 1/3(07 + 13 + 21), corrected to means of 24 hours, local time. Alt; 164m. 1936-1970; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Alt; 167m. 1951-1970; alt = 156m. NB. Temp 1881-1920; reduced to standard height by assuming a decrease of .45C for every 100m. A2: Alt = 150m. No other details available. A35: No details available. Reliability: compared with 225500 & 264220 for the years 1813-1980 & 1795-1970. | | | | | | | | | | |
| 276650: | LUKOJANOV | USSR | 55.0N | 44.5E | 206m | 1951-1970 | 10 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: | All: 1951-1970; 55 02'N 44 30'E, alt = 206m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 279470 & 276120 for the years 1951-1970. | | | | | | | | | | |
| 279470: | TAMBOV | USSR | 52.7N | 41.5E | 139m | 1951-1970 | 10 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: | All: 1951-1970; 52 44'N 41 28'E, alt = 139m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 276650 & 276120 for the years 1951-1970. | | | | | | | | | | |
| 280260: | USPOLJE | USSR | 59.3N | 56.8E | 107m | 1837-1853 | 13 | 1837 | | | |
| Sources: | A35 | | | | | | | | | | |
| Notes: | A35: Alt; 107m. No other details available. Reliability: compared with 275950 for the years 1837-1853. | | | | | | | | | | |
| 282250: | PERM | USSR | 58.0N | 56.3E | 161m | 1883-1980 | 10 | 1883 | | | |
| Sources: | A1, A8 | | | | | | | | | | |
| Notes: | All: 1882-1930; 1/3(07 + 13 + 21) corrected to means of 24 hours. Alt = 159m. 1931-1935 & April-Dec 1938; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-Mar 1938 & 1939-1960; 1/4(01 + 07 + 13 + 19) local time. Alt = 144m. 1951-1960; alt = 161m. NB. Temp 1882-1920 reduced to a standard height by assuming a decrease of .45C for every 100m. A8: No details available. Reliability: compared with 284400 for the years 1883-1980. | | | | | | | | | | |
| 282400: | NISBNE-TAGILSK | USSR | 57.9N | 59.9E | 210m | 1839-1882 | 33 | | | | |
| Sources: | A2, A35, A70 | | | | | | | | | | |
| Notes: | A2: Alt; 210m. No other details available. A35: No details available. A70: No details available. Reliability: compared with 282250 & 284400 for the years 1839-1865. | | | | | | | | | | |

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| 282750: | TOBOLSK | USSR | 58.2N | 68.2E | 44m | 1832-1980 | 10 | 1832 | | | | |
| Sources: | A1, A2, A35, A51, A70, | | | | | | | | | | | |
| Notes: A1: 1888-1920; 1/3(07 + 13 + 21) corrected to the means of 24 hours, by corrections given on pxiii, vol 79. Temp reduced to a standard height, by assuming a decrease of .6C for every 100m. Alt = 98m. 1921-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Alt; 1941-1950 = 96m, 1951-1960 = 44m. A2: No details available. A35: No details available. A70: A combination of 1/2(08 + 12), 1/4(08 + 12 + 21 + 21), 1/3(06 + 14 + 22) & 1/3(07 + 15 + 23). Corrections, but no other details are on pCCIX. A51: No other details available. Reliability: compared with 238490 for the years 1885-1980. | | | | | | | | | | | | |
| 284400: | SVERDLOVSK | USSR | 56.8N | 60.6E | 237m | 1831-1980 | 10 | 1831 | | | | |
| Sources: | A1, A2, A13, A35, A111 | | | | | | | | | | | |
| Notes: Also known as Katherineburg. A1: 1881-1935; 1/3(07 + 13 + 21) corrected to means of 24 hours. Alt = 281m. 1936-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. NB. 1938 values interpolated from a nearby station at 56°47'N 60°38'E, alt = 290m. NB. Temp 1881-1920 reduced to a standard height by assuming a decrease of .45C for every 100m. A2: No details available. A13: Alt; 270m, 1831-1835; 1/2(09 + 21). 1836-1845; 1/3(08 + 14 + 22). 1846-Feb 1849; 1/3(0622 + 1422 + 2222). Mar 1849-1862; 1/3(08 + 14 + 22). 1863-June 1870; 1/3(06 + 14 + 22). July 1870-1882; 1/3(07 + 13 + 21). Corrections are given on pX. A35: No details available. A111: No details available. Reliability: compared with 282250 & 282750 for the years 1883-1980 & 1832-1980. | | | | | | | | | | | | |
| 286980: | OMSK | USSR | 55.0N | 73.4E | 94m | 1885-1980 | 10 | 1887 | | | | |
| Sources: | A1, A51 | | | | | | | | | | | |
| Notes: A1: 1887-1912; 1/3(07 + 13 + 21) corrected to means of 24 hours. Reduced to a standard height by assuming a decrease of .6C for every 100m. Alt; 87m. 1921-1935; 1/3(07 + 13 + 21) local time corrected to the means of 24 hours. Alt; 108m. 1936-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Alt; 105m. Alt; 1941-1950 = 88m, 1951-1960 = 94m. In 1935 the station moved from 55°01'N 73°20'E, alt = 105m to 54°56'N 73°24'E, alt = 88m. Temp corrections for 1885-1912 & for an unspecified site change are given on pxiii, vol 79. A51: Alt; 85m. No other details available. Reliability: compared with 282750 & 351210 for the years 1887-1980. | | | | | | | | | | | | |
| 289007: | SSAMARA | USSR | 53.2N | 50.1E | 60m | 1852-1877 | 13 | 1852 | | | | |
| Sources: | A2, A70 | | | | | | | | | | | |
| Notes: A2: Alt; 60m. No other details available. A70: A combination of; 1/2(09 + 21), 1/3(07 + 14 + 22), 1/3(07 + 15 + 23) & 1/3(08 + 15 + 23). Corrections, but no other details are given on pCIV. Reliability: compared with 351080 for the years 1852-1875. | | | | | | | | | | | | |
| 289520: | KUSTANAJ | USSR | 53.1N | 63.5E | 171m | 1951-1980 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 53°13'N 63°37'E, alt = 171m. Reliability: compared with 282750 & 286980 for the years 1951-1980. | | | | | | | | | | | | |
| 292310: | KOLPASEV | USSR | 58.3N | 82.9E | 76m | 1951-1980 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 58°18'N 82°54'E, alt = 76m. Reliability: compared with 282750 & 286980 for the years 1951-1980. | | | | | | | | | | | | |
| 292630: | ENISEJSK | USSR | 58.5N | 92.2E | 78m | 1871-1980 | 10 | 1871 | | | | |
| Sources: | A1, A13, A51, A70 | | | | | | | | | | | |
| Notes: A1: 1881-1915; 1/3(07 + 13 + 21) corrected to means of 24 hours. Temp reduced to a standard alt, by assuming a decrease of .6C for every 100m. Alt = 81m. 1916-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. Alt = 78m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Temp corrections for 1881-1914 & for an unspecified site change are given on pxiii, vol 79. A13: Alt = 80m. 1/3(07 + 13 + 21). Corrections are given on pVI. A51: Alt = 84m. No other details available. A70: Alt = 80m. 1/3(07 + 13 + 21). Corrections are given on pVI. Site: 58.5N 92.6E. Reliability: compared with 294300 & 298380 for the years 1871-1980. | | | | | | | | | | | | |
| 292820: | BOGUCANY | USSR | 58.4N | 97.4E | 134m | 1963-1980 | 12 | 1963 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 303090 for the years 1963-1980. | | | | | | | | | | | | |
| 294300: | TOMSK | USSR | 56.5N | 85.0E | 121m | 1837-1960 | 12 | 1837 | | | | |
| Sources: | A1, A35, A51, A70 | | | | | | | | | | | |
| Notes: A1: 1881-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours, by corrections given on pxiii, vol 79. Temp reduced to a standard height, by assuming a decrease of .6C for every 100m. Alt = 123m. 1916-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. 1951-1960; alt = 121m. A35: No details available. A51: No details available. A70: A combination of 1/4(07 + 14 + 21 + 21), 1/3(08 + 12 + 20), 1/2(08 + 20), 1/4(08 + 15 + 21 + 21), 1/3(07 + 15 + 20), 1/3(07 + 15 + 23) & 1/3(07 + 13 + 21). Corrections, but no other details are given on pVII. Reliability: compared with 298380 & 298660 for the years 1838-1980 & 1886-1980. | | | | | | | | | | | | |

295740: KRASNOJARSK USSR 56.0N 92.9E 194m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 56 00'N 92 53'E, alt = 194m. Reliability: compared with 292630 & 298660 for the years 1951-1980.

298380: BARNAU USSR 53.3N 83.8E 196m 1838-1980 10 1838
 Sources: A1, A2, A13, A35, A51, A111

Notes: A1: 1881-1920; 1/3(07 + 13 + 21) corrected to means of 24 hours. Reduced to standard height by assuming .6C decrease for every 100m. 1921-1935; 1/3(07 + 13 + 21) local time corrected to means of 24 hours. Alt; 162m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Alt; 1936-1950 = 158m, 1951-1960 = 196m. 1881-1915 corrections on pxiii, vol 79. A2: No details available. A13: 1838-July 1841; 1/3(08 + 14 + 22). July 1841-1862; 1/3(XIII + XXI + V). 1863-1869; 1/3(06 + 14 + 22). Jan 1870-1880; 1/3(07 + 13 + 21). Corrections for these formulas are given on pxi of the source. Alt; 150m. A35: No details available. A51: Alt; 170m. No other details available. A111: No details available. Reliability: compared with 294300 & 298660 for the years 1838-1980 & 1886-1980.

298660: MINUSINSK USSR 53.7N 91.7E 251m 1886-1980 10 1886
 Sources: A1, A8, A51

Notes: A1: 1885-1920; 1/3(07 + 13 + 21) corrected to the means of 24 hours by corrections given on pxii, vol 79. Alt; 248m. 1921-1935; 1/3(07 + 13 + 21) local time. Alt; 249m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. Alt; 251m. In 1931 the station moved from 53 43'N 91 41'E to 53 42'N 91 42'E. NB. Corrections for 1885-1920 to reduce temp to means of 24 hours are given on pxii, vol 79. Temp corrections for 1889-1920 & for an unspecified site change are given on pxiii, vol 79. 1885-1920 temp reduced to a standard height by assuming a decrease of .6C for every 100m. A8: No details available. A51: Alt; 240m. No other details available. Reliability: compared with 298380 & 292630 for the years 1886-1980.

300540: VITIM USSR 59.5N 112.6E 193m 1951-1979 12 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 59 27'N 112 35'E, alt = 193m. Reliability: compared with 302300 for the years 1951-1960.

302300: KIRENSK USSR 57.8N 108.1E 261m 1892-1980 20 1892
 Sources: A1, A8

Notes: A1: 1892-1920; 1/3(07 + 13 + 21) corrected to means of 24 hours, by corrections given on pxii, vol 79. Alt = 257m. 1931-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. In Sept 1940 station moved from 57 47'N 108 7'E, alt = 256m to 57 47'N 108 0'E, alt = 270m. 1941-1960; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. 1951-1960; alt = 261m.

NB. 1892-1920 temp are reduced to a standard alt by assuming a decrease of .6C for every 100m. A8: No details available. Reliability: compared with 307100 for the years 1892-1980. Corrected for a station move in Sept 1940. Correction Factors: Stations used: 307100 & 292630. Calculation dates: 1941-1980. Correction dates: 1892-1939. Factors: -8 -27 -23 -13 -6 -7 -7 -5 -7 -7 -11 -16.

303090: BRATSK USSR 56.1N 101.8E 326m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 56 04'N 101 50'E, alt = 326m. Reliability: compared with 302300 for the years 1951-1980.

303930: CULMAN USSR 56.8N 124.9E 1951-1960 12 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 56 50'N 124 52'E, alt = 664m. Reliability: compared with 310040 for the years 1951-1960.

304690: KALAKAN USSR 55.1N 116.8E 607m 1963-1980 12 1963
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 310040 for the years 1963-1980.

305540: TROICKIJ PRIISK USSR 54.6N 113.1E 1310m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 307100 for the years 1951-1980.

306350: USTI-BARUZIN USSR 53.4N 109.0E 1971-1980 12 1971
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 307100 for the years 1971-1980.

306360: BARGUZIN USSR 53.6N 109.6E 1963-1973 12 1963
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 307100 for the years 1963-1973.

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| 306730: | MOGOCA | USSR | 53.7N | 119.8E | 619m | 1963-1980 | 12 | 1963 | 310880: | OBOTSK | USSR | 59.4N | 143.3E | 6m | 1890-1980 | 10 | 1890 | |
| Sources: | A1 | | | | | | | | Sources: | A1 | | | | | | | | |
| Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 310040 for the years 1963-1980. | | | | | | | | Notes: | A1: 1890-1915; 1/3(07 + 13 + 21) corrected to means of 24 hours. Reduced to a standard height, by assuming a decrease of .6C for every 100m. Alt; 6m. 1925-1935; 1/3(07 + 13 + 21) local time, corrected to means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Site; 1916-1925; 59 21'N 143 12'E. Reliability: compared with 313290 for the years 1890-1980. | | | | | | | | |
| 307100: | IRKUTSK | USSR | 52.3N | 104.3E | 485m | 1820-1980 | 10 | 1820 | 311370: | TOKO | USSR | 56.3N | 131.1E | 1951-1960 | 11 | 1951 | | |
| Sources: | A1, A35, A51, A70 | | | | | | | | Sources: | A1 | | | | | | | | |
| Notes: | A1: 1881-1920; 1/3(07 + 13 + 21) corrected to the means of 24 hours, by corrections given on pxi, vol 79. Alt; 467m. 1921-1930; 1/3(07 + 13 + 21). 1931-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Alt; 468m. 1951-1960; alt = 485m. 1881-1920 temp reduced to a standard height by assuming a decrease of .6C for every 100m. A35: No details available. A51: Alt; 468m. No other details available. A70: A combination of 1/3(07 + 14 + 21), 1/3(07 + 14 + 22) & 1/3(07 + 13 + 21). Corrections are given on pCCXX. Reliability: compared with 308790 & 302300 for the years 1838-1950 & 1892-1980. | | | | | | | | Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 56 17'N 131 08'E, alt = 858m. Reliability: compared with 310040 for the years 1951-1960. | | | | | | | | |
| 307580: | CITA | USSR | 52.0N | 113.5E | 685m | 1890-1980 | 10 | 1890 | 311680: | AJAN | USSR | 56.5N | 138.2E | 9m | 1963-1980 | 11 | 1963 | |
| Sources: | A1 | | | | | | | | Sources: | A1 | | | | | | | | |
| Notes: | A1: 1890-1919; Alt = 683m. 1/3(07 + 13 + 21) corrected to mean of 24 hours, corrections given on pxi, vol 79. 1951-1960; alt = 685m. 1920-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. 1890-1919 temp reduced to a standard height, by assuming a decrease of .6C for every 100m. Reliability: compared with 307100 & 308790 for the years 1890-1980 & 1890-1950. | | | | | | Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 310880 for the years 1963-1980. | | | | | | | | | | |
| 308790: | NERCINSKIJ ZAVOD | USSR | 51.3N | 119.6E | 620m | 1839-1978 | 12 | 1839 | 312530: | BORNAK | USSR | 54.7N | 128.9E | 357m | 1951-1980 | 10 | 1951 | |
| Sources: | A1, A2, A13, A35, A111 | | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: | A1: 1881-1918; 1/3(07 + 13 + 21) corrected to the means of 24 hours, by corrections given on pxi, vol 79. Alt = 620m. 1926-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. Alt = 621m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. Alt = 620m. 1941-1950; 1/4(01 + 07 + 13 + 21) local time, corrected to the means of 24 hours. A13: Alt; 660m. 1839-1862; 1/3(08 + 14 + 22). 1863-1869; 1/3(06 + 14 + 22). 1870-1881; 1/3(07 + 13 + 21). Corrections are given on pXIII. A35: No details available. A2: No details available. A111: No details available. Reliability: compared with 307100, 313690 & 315100 for the years 1838-1950, 1854-1950 & 1881-1950. | | | | | | | Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 54 43'N 128 56'E, alt = 357m. Reliability: compared with 310040 for the years 1951-1980. | | | | | | | | | |
| 310040: | ALDAN | USSR | 58.6N | 125.4E | 682m | 1951-1980 | 10 | 1951 | 313290: | EKINCHAR | USSR | | | | | | | |
| Sources: | A1 | | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 58 37'N 125 22'E, alt = 682m. Reliability: compared with 312530 for the years 1951-1980. | | | | | | | Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 310880 & 313690 for the years 1915-1954. | | | | | | | | | |
| 313690: | NIKOLAEVSK NA AMURE | USSR | | | | | | | 313690: | NIKOLAEVSK NA AMURE | USSR | 53.1N | 140.7E | 47m | 1854-1980 | 10 | 1854 | |
| Sources: | A1, A2, A13, A51 | | | | | | | Sources: | A1 | | | | | | | | | |
| Notes: | A1: 1881-1915; 1/3(07 + 13 + 21) corrected to means of 24 hours. Reduced to a standard height by assuming a decrease of .6C for every 100m. Alt; 16m. 1925-1935; 1/3(07 + 13 + 21) local time. Alt = 42m. May 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. 1951-1960; alt = 47m. NB. Alt given as 21m up to Feb 1920 when station closed & reopened in 1925 at 42m. Station moved several times & its various heights have not been definitely obtained. A2: No details available. A13: Alt; 20m. 1854-1866; 1/3(06 + 14 + 22). 1867-1870; 1/3(07 + 14 + 21), 1871-1879; 1/3(07 + 13 + 21). Corrections given in the source. A51: Alt; 33m. No other details available. Reliability: compared with 310880, 255630 & 307100 for the | | | | | | | | | | | | | | | | | |

years 1890-1980, 1898-1980 & 1854-1980.

314160: IM. POLINY OSIPENKO USSR 52.4N 136.5E 65m 1963-1980 11 1963
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 317350 for the years 1963-1980.

315100: BLAGOVESCHENSK USSR 50.3N 127.5E 137m 1881-1980 10 1881
Sources: A1, A8, A51

Notes: A1: 1881-1920; 1/3(07 + 13 + 21) corrected to means of 24 hours. 1921-1930; 1/3(07 + 13 + 21). Alt: 142m. 1931-1935; 1/3(07 + 13 + 21) local time, corrected to means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. Alt: 143m. 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Alt: 137m. NB. 1881-1920 temp reduced to a standard height by assuming a decrease of .6C for every 100m. Temp corrections for 1881-1914 & for an unspecified site change are given on pxi, vol 79. A8: No details available. A51: Alt: 110m. No other details available. Reliability: compared with 313690 for the years 1881-1980.

317350: HABAROVSK USSR 48.5N 135.2E 72m 1909-1980 10 1909
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 48 31'N 135 10'E, alt = 72m. Reliability: compared with 313690 & 319600 for the years 1909-1980.

319600: VLADIVOSTOK USSR 43.1N 131.9E 138m 1872-1980 10 1872
Sources: A1, A29, A51

Notes: A1: 1881-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours. Temp reduced to a standard height, by assuming a decrease of .6C for every 100m. Alt = 29m. 1916-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. Alt = 128m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time, 1941-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. 1951-1960; alt = 138m. Temp corrections for 1881-1915 & for an unspecified site change are given on pxi, vol 79. A29: 1/3(07 + 13 + 21). No other details available. A51: Alt = 17m. No other details available. Reliability: compared with 313690 & 317350 for the years 1872-1980 & 1909-1980.

320610: ALEKSANDROVSK USSR 50.9N 142.2E 1901-1960 10 1901
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 50 54'N 142 10'E. Reliability: compared with 317350 & 313690 for the years 1901-1960.

320980: PORONAISK USSR 49.2N 143.1E 4m 1908-1964 10 1908
Sources: A1

Notes: A1: 1908-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22). 1940-1944; 1/3(06 + 14 + 22) 135E meridian time. 49 13'N 143 06'E, alt = 4m. Reliability: compared with 317350 & 319600 for the years 1908-1964.

321500: JUZNO-SARALINSK USSR 46.9N 142.7E 31m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 46 55'N 142 44'E, alt = 31m. Reliability: compared with 319600 for the years 1951-1980.

321650: KUZNO USSR 44.0N 145.8E 1951-1960 11 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 44 01'N 145 49'E, alt = 40m. Reliability: compared with 321500 for the years 1951-1960.

321950: SIMUSIR USSR 46.9N 151.9E 26m 1951-1980 10 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 46 51'N 151 52'E, alt = 26m. Reliability: compared with 313690 for the years 1951-1980.

322170: MYA VASILEVA USSR 50.0N 155.4E 1951-1960 11 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 50 00'N 155 23'E, alt = 16m. Reliability: compared with 325400 for the years 1951-1980.

323890: RLUJCI USSR 56.3N 160.8E 1951-1960 11 1951
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 56 19'N 160 50'E, alt = 25m. Reliability: compared with 325400 for the years 1951-1980.

324110: ICA USSR 55.7N 155.6E 4m 1963-1980 11 1963
Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 325400 for the years 1963-1980.

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|--------|------|-----------|----|------|---------|----------------|------|-------|-------|------|-----------|----|------|
| 325400: | PETROPAVLOVSK | USSR | 53.0N | 158.6E | 7m | 1870-1980 | 20 | 1891 | 333930: | LVOV | USSR | 49.8N | 24.0E | 325m | 1824-1980 | 10 | 1824 |
| Sources: | A1, A8 | | | | | | | | | | | | | | | | |
| Notes: | Also known as Kamchatskiy. A1: 1891-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours, by corrections given on pxi, vol 79. Reduced to a standard height, by assuming a decrease of .6C for every 100m. Alt; 102m. 1921-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. Alt = 87m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. Alt = 40m. 1941-1950; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. 1951-1960; alt = 94m. 1961-1970 = 24m. 1891-1960; 53.0N 158.8E. 1961-1973; alt = 7m. A8: No details available. Reliability: compared with 313690 & 310880 for the years 1891-1980 & 1890-1980. Corrected for a station move 1950/1951. Correction Factors: Stations used: 310880 & 313690. Calculation dates: 1951-1980. Correction dates: 1891-1950. Factors: 16 13 12 11 11 12 16 13 13 15 13 12. | | | | | | | | | | | | | | | | |
| 326180: | OSTROV BERINGA | USSR | 55.2N | 166.0E | 6m | 1951-1980 | 10 | 1951 | 335060: | POLTAWA | USSR | 49.6N | 34.6E | 140m | 1824-1978 | 83 | |
| Sources: | A1 | | | | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 325400 for the years 1951-1980. | | | | | | | | | | | | | | | | |
| 330080: | BREST | USSR | 52.1N | 23.7E | 144m | 1951-1978 | 10 | 1951 | 335420: | IRGIS | USSR | 48.6N | 61.3E | 110m | 1862-1882 | 13 | 1863 |
| Sources: | A1 | | | | | | | | | | | | | | | | |
| Notes: | A1: 1951-1970; 52 07'N 23 41'E, alt = 144m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 333010 & 333450 for the years 1951-1978. | | | | | | | | | | | | | | | | |
| 333010: | ROVNO | USSR | 50.6N | 26.1E | 234m | 1951-1978 | 10 | 1951 | 336310: | UZGOROD | USSR | 48.6N | 22.3E | 118m | 1951-1978 | 10 | 1951 |
| Sources: | A1 | | | | | | | | | | | | | | | | |
| Notes: | A1: 1951-1970; 50 35'N 26 08'E, alt = 234m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 333080 & 333450 for the years 1951-1978. | | | | | | | | | | | | | | | | |
| 333450: | KIEV | USSR | 50.5N | 30.5E | 179m | 1812-1980 | 20 | 1812 | 336580: | CERNOVY | USSR | 48.3N | 26.0E | 240m | 1880-1978 | 10 | 1880 |
| Sources: | A1, A2, A13, A35 | | | | | | | | | | | | | | | | |
| Notes: | A1: Alt; 1881-1950 = 183m, 1951-1970 = 179m. 1881-1935; means of 1/3(07 + 13 + 21), corrected to means of 24 hours. Reduced to standard height, by assuming a decrease of .45C for every 100m. 1936-1970; 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. A2: No details available. A13: Alt; 180m. 1856-1869; 1/3(07 + 14 + 21). 1870-1880; 1/3(07 + 13 + 21). Corrections given on pXV. A35: No details available. Reliability: compared with 333930, 336580 & 338370 for the years 1824-1980, 1880-1978 & 1821-1980. Corrected for a site change 1950/1951. Correction Factors: Stations used: 333930, 336580 & 338370. Calculation dates: 1951-1970. Correction dates: 1812-1950. Factors: 5 10 10 12 14 13 7 4 6 0 6. | | | | | | | | | | | | | | | | |
| 333930: | LVOV | USSR | 49.8N | 24.0E | 325m | 1824-1980 | 10 | 1824 | 336990: | JUZNO BUGSKAJA | USSR | 48.1N | 30.9E | 103m | 1951-1970 | 10 | 1951 |
| Sources: | A1, A35 | | | | | | | | | | | | | | | | |
| Notes: | Also known as Lemberg & as Lemberg. A1: Alt; 1876-1920 = 298m, 1921-1930 = 312m. 1931-1950; 33m. 1951-1970 = 325m. 1882-1930; 1/3(07 + 13 + 21). 1931-1970; 1/4(01 + 07 + 13 + 21) local time, corrected to the means of 24 hours. A35: No details available. Reliability: compared with 336580 & 338370 for the years 1880-1978 & 1884-1980. | | | | | | | | | | | | | | | | |
| 335060: | POLTAWA | USSR | 49.6N | 34.6E | 140m | 1824-1978 | 83 | | | | | | | | | | |
| Sources: | A35, A70 | | | | | | | | | | | | | | | | |
| Notes: | A35: No details available. A70: 1/4(07 + 14 + 21 + 21). Corrections are given on pCLXXX. Alt; 140m. Reliability: compared with 338370 for the years 1824-1865. | | | | | | | | | | | | | | | | |
| 335420: | IRGIS | USSR | 48.6N | 61.3E | 110m | 1862-1882 | 13 | 1863 | | | | | | | | | |
| Sources: | A2, A13 | | | | | | | | | | | | | | | | |
| Notes: | A2: No details available. A13: 1862-Jan 1863; 1/2(10 + 22). Feb 1863-1869; 1/3(06 + 14 + 22). 1870-1880; 1/3(07 + 13 + 21). Alt; 110m. Corrections are given on pXV. Reliability: compared with 331210 for the years 1863-1880. | | | | | | | | | | | | | | | | |
| 336310: | UZGOROD | USSR | 48.6N | 22.3E | 118m | 1951-1978 | 10 | 1951 | | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | | | |
| Notes: | A1: 1951-1970; 48 38'N 22 16'E, alt = 118m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 337110 & 338370 for the years 1951-1978. | | | | | | | | | | | | | | | | |
| 336580: | CERNOVY | USSR | 48.3N | 26.0E | 240m | 1880-1978 | 10 | 1880 | | | | | | | | | |
| Sources: | A1, A6 | | | | | | | | | | | | | | | | |
| Notes: | A1: Means were calculated from the Koppen formula, $m = n - k(n - \min)$, where m = true mean, min = daily min, n is the mean of 3 daily observations & k is a coefficient. From 1880-1915 the observation times were 07, 14 & 21h & from 1921 they were 08, 14 & 20h. Alt; 1880-1950 = 225m. 1951-1970; alt = 240m. A6: Means of 07, 13 & 21h prior to 1902, then of 08, 14 & 20h. Alt; 243m. Reliability: compared with 338370 for the years 1880-1978. | | | | | | | | | | | | | | | | |
| 336990: | JUZNO BUGSKAJA | USSR | 48.1N | 30.9E | 103m | 1951-1970 | 10 | 1951 | | | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; 48 03'N 30 51'E, alt = 103m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 337110 & 338370 for the years 1951-1970. | | | | | | | | | | | | | | | | |

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| 337110: | KIROVOGRAD | USSR | 48.5N | 32.3E | 148m | 1951-1978 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1970; 48 29'N 32 15'E, alt = 148m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 336990 & 338370 for the years 1951-1978. | | | | | | | | | | | | |
| 338150: | KISIMEV | USSR | 47.0N | 28.9E | 90m | 1825-1970 | 22 | 1825 | | | | |
| Sources: | A1, A2, A6, A35, A70 | | | | | | | | | | | |
| Notes: A2: No details available. A6: Alt; 113m. 1845-1915; 1/3(07 + 13 + 21). 1921-1930; 1/3(08 + 14 + 20). A35: No details available. A70: A combination of; 1/2(06 + 18), 1/3(sunrise + 14 + sunset), 1/4(2(06) + 14 + 18), 1/3(07 + 14 + 21), 1/4(07 + 14 + 21 + 21) & 1/3(07 + 13 + 21). Corrections but no other details are given on pXC. A1: 1951-1970; alt = 95m. No other details available. Reliability: compared with 338370 & 343000 for the years 1825-1980 & 1901-1980. Corrected for a site change after the 1881-1886 data gap. Correction Factors: Stations used: 338370. Calculation dates: 1887-1980. Correction dates: 1825-1880. Factors: -6 -7 -11 -7 -6 -11 -11 -11 -12 -9 -14 -5. | | | | | | | | | | | | |
| 338370: | ODESSA | USSR | 46.5N | 30.7E | 64m | 1821-1980 | 10 | 1821 | | | | |
| Sources: | A1, A2, A35, A70 | | | | | | | | | | | |
| Notes: A1: 1881-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. 1936-1970; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. In 1933 the station moved from 46 29'N 30 44'E, alt = 65m, to 46 26'N 30 46'E, alt = 43m. 1951-1970; alt = 64m. ND. Temp 1881-1920; reduced to a standard height, by assuming a decrease of .45C for every 100m. A2: No details available. A35: No details available. A70: Observations are combination of 1/3(06 + 16 + 21), 1/3(06 + 15 + 21), 1/2(09 + 21), 1/2(10 + 22), 1/3(06 + 14 + 22) & 1/3(07 + 13 + 21), but no other details are given. Reliability: compared with 343000 & 339460 for the years 1901-1980 & 1821-1980. | | | | | | | | | | | | |
| 338460: | NIKOLAEV | USSR | 47.0N | 32.0E | 20m | 1808-1875 | 13 | 1808 | | | | |
| Sources: | A70 | | | | | | | | | | | |
| Notes: A70: A combination of; 1/3(07 + 13 + 18), 1/3(0600 + 1300 + 1930), 1/3(0500 + 1300 + 2030), 1/2(10 + 22), 1/3(08 + 14 + 22), 1/3(07 + 14 + 22) & 1/3(07 + 13 + 21). Corrections, but no other details are given on pXXXIX. Alt; 20m. Reliability: compared with 338370 for the years 1821-1875. | | | | | | | | | | | | |
| 339340: | DZANKOJ | USSR | 45.7N | 34.4E | | 1951-1970 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1970; 45 43'N 34 24'E, alt = 0m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 339460 for the years 1951-1970. | | | | | | | | | | | | |
| 339460: | SIHEVEROPOL | USSR | 45.0N | 34.0E | 205m | 1821-1980 | 12 | 1821 | | | | |
| Sources: | A1, A35, A70 | | | | | | | | | | | |
| Notes: A1: Alt; 205m. No details, but probably 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. A35: No details available. A70: A combination of; 1/4(08 + 12 + 21 + 21), 1/2(09 + 21), 1/3(07 + 14 + 22), 1/3(min + 1300 + 2115). Corrections but no other details are given on pXCII. Site; 45.0N 34.1E, alt = 260m. Reliability: compared with 338370 & 336580 for the years 1821-1980 & 1880-1980. | | | | | | | | | | | | |
| 339467: | BSEVASTOPOL | USSR | 44.6N | 33.5E | 40m | 1824-1882 | 13 | 1824 | | | | |
| Sources: | A2, A35, A70 | | | | | | | | | | | |
| Notes: A2: Alt; 40m. No other details available. A35: No details available. A70: A combination of; 1/2(10 + 22), 1/3(08 + 14 + 22), 1/3(07 + 14 + 22), 1/3(07 + 13 + 21) & 1/4(07 + 12 + 16 + 20). Corrections, but no other details are given on pCV. Reliability: compared with 339460 for the years 1824-1875. | | | | | | | | | | | | |
| 339667: | ENISSALA | USSR | 44.9N | 34.6E | 460m | 1833-1872 | 13 | 1833 | | | | |
| Sources: | A70 | | | | | | | | | | | |
| Notes: A70: 1/3(06 + 12 + 21). Corrections are given on pXCII. Alt = 460m. Reliability: compared with 339460 & 339467 for the years 1833-1872. | | | | | | | | | | | | |
| 340090: | KURSK | USSR | 51.7N | 36.2E | 167m | 1833-1970 | 32 | | | | | |
| Sources: | A1, A35 | | | | | | | | | | | |
| Notes: A1: 1951-1970; alt = 167m. No other details available. A35: No details available. Reliability: compared with 341220 for the years 1951-1970. | | | | | | | | | | | | |
| 341220: | VORONEZ | USSR | 51.7N | 39.2E | 164m | 1862-1980 | 10 | 1951 | | | | |
| Sources: | A1, A2 | | | | | | | | | | | |
| Notes: A1: 1951-1970; alt = 164m. No other details available. A2: Alt; 150m. No other details available. Reliability: compared with 343000 & 337110 for the years 1951-1980 & 1951-1978. | | | | | | | | | | | | |
| 341390: | KAMENNAYA STEPPE | USSR | 51.1N | 40.7E | 194m | 1951-1970 | 10 | 1951 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1951-1970; 51 03'N 40 42'E, alt = 194m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 341630 for the years 1951-1970. | | | | | | | | | | | | |
| 341630: | ORTIABRSKII GORODOK | USSR | 51.6N | 45.5E | 190m | 1881-1970 | 10 | 1881 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: A1: 1881-1935; 1/3(07 + 13 + 21) local time, corrected to the means of 24 hours. Alt; 1881-1935 = 193m, 1936-1940 = 190m, 1941-1950 = 193m, 1951-1960 = 90m. 1936-1960; 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. 1961-1970; alt = 190m. Reliability: compared | | | | | | | | | | | | |

with 345600 for the years 1881-1970.

341720: SARATOV USSR 51.6N 46.0E 156m 1951-1980 20 1951
Sources: A1

Notes: A1: 1951-1960; 51 34'N 46 02'E, alt = 156m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 341630 for the years 1951-1980. Corrected for a station move 1960/1961. Correction Factors: Stations used: 341630. Calculation dates: 1961-1970. Correction dates: 1951-1960. Factors: 2 -12 -11 -16 -11 -11 -12 -13 -16 -13 -9 -8.

343000: HAR KOV USSR 49.9N 36.3E 152m 1901-1980 10 1901
Sources: A1

Notes: A1: 1951-1960; 49 56'N 36 17'E, alt = 152m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 345600 & 341220 for the years 1901-1970 & 1951-1980.

343360: BOGUCAR USSR 49.9N 40.6E 1951-1960 10 1951
Sources: A1

Notes: A1: 1951-1960; 49 56'N 40 34'E, alt = 83m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 341390 for the years 1951-1960.

343440: KAZANSKAJA USSR 49.8N 41.2E 1961-1970 10 1961
Sources: A1

Notes: A1: 1961-1970; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 49 48'N 41 09'E, alt = 72m. Reliability: compared with 345600 for the years 1961-1970.

345600: VOLGOGRAD USSR 48.7N 44.4E 145m 1901-1970 10 1901
Sources: A1

Notes: A1: 1951-960; 48 41'N 44 21'E, alt = 145m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 347310 for the years 1901-1970.

345607: SSAREPTA USSR 48.5N 44.6E 50m 1838-1855 13 1838
Sources: A70

Notes: A70: 1838-1847; corrections only given. 1848-1855; 1/4(08 + 14 + 22 + 22). Corrections are given on pCIV. Alt; 50m. Reliability: compared with 335060 for the years 1838-1855.

346010: ZAPOROZE USSR 47.8N 35.3E 86m 1951-1970 10 1951
Sources: A1

Notes: A1: 1951-1970; 47 48'N 35 15'E, alt = 86m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 347310 for the years 1951-1970.

347310: ROSTOV-NA-DONU USSR 47.3N 39.8E 77m 1901-1980 10 1901
Sources: A1

Notes: A1: 1951-1970; 47 15'N 39 49'E, alt = 77m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 345600 & 339460 for the years 1901-1970 & 1951-1980.

347590: REMONTNO USSR 46.6N 43.7E 108m 1951-1970 10 1951
Sources: A1

Notes: A1: 1951-1970; 46 34'N 43 40'E, alt = 108m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 370500 for the years 1951-1970.

348660: JASKUL USSR 46.2N 45.4E -7m 1951-1970 10 1951
Sources: A1

Notes: A1: 1951-1960; 46 11'N 45 21'E, alt = -7m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 348800 for the years 1951-1970.

348800: ABRAHAM USSR 46.4N 48.0E 18m 1837-1980 10 1837
Sources: A1, A2, A13, A35, A70

Notes: A1: 1881-1935; means of 1/3(07 + 13 + 21) reduced to means of 24 hours, using corrections from Wild. These mean temps were reduced to a standard level for the station, by assuming a decrease of -0.45C for each 100m of alt. Alt; -14m. 1936-1940; means of 1/4(01 + 07 + 13 + 19) local time, corrected to the means of 24 hours. Alt; -15m. 1940-1950; means as above. Alt; -14m. 1951-1970; No details given but presumed to be as above. Alt; -18m. A2: No details available. A13: Alt; 20m. 6 different observation times & means were used. Details of these & their corrections are given on pX of the source. A35: No details available. A70: Various means were used; see text for details. Reliability: compared with 380010 & 375490 for the years 1848-1980 & 1844-1980.

349290: KRAKHODAR USSR 45.0N 39.2E 33m 1951-1970 10 1951
Sources: A1

Notes: A1: 1951-1970; 45 02'N 39 09'E, alt = 33m. Probably 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Reliability: compared with 370180 & 370310 for the years 1951-1970.

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| 349490: | STAVROPOL | USSR | 45.1N | 42.0E | 550m | 1854-1875 | 33 | .353940: | KARAGANDA | USSR | 49.8N | 73.1E | 555m | 1951-1980 | 10 | 1951 | |
| Sources: | A70 | Notes: A70: A combination of; 1/4(07 + 13 + 21 + 21) & 1/3(07 + 13 + 19). Corrections, but no other details are given on CVI. Alt; 550m. Reliability: compared with 375490 for the years 1854-1875. | | | | | | | | | | | | | | | |
| 351080: | URALSK | USSR | 51.3N | 51.3E | | 1839-1856 | 13 | 1839 | .357000: | GUREV | USSR | 47.0N | 51.9E | 23m | 1951-1980 | 10 | 1951 |
| Sources: | A35 | Notes: A35: No details available. Reliability: compared with 351210 for the years 1839-1856. | | | | | | | | | | | | | | | |
| 351210: | ORENBOURG(TCHKALOV) | USSR | 51.8N | 55.1E | 109m | 1832-1980 | 10 | 1832 | .357460: | ARALSKOE MORE | USSR | 46.8N | 61.7E | | 1951-1960 | 11 | 1951 |
| Sources: | A1, A2, A70, A106 | Notes: A1: 1886-1935; 1/3(07 + 13 + 21) local time, corrected to means of 24 hours. Alt; 114m. 1936-1950; 1/4(01 + 07 + 13 + 19) local time, corrected to means of 24 hours. Alt; 109m. No later details available. NB. Temp 1886-1920 reduced to a standard height, by assuming a decrease of .45C for every 100m. Corrections for the period 1886-1915 & for an unspecified site change are given on pxii, vol 79. A2: No details available. A70: A combination of 1/2(08 + 20), 1/2(10 + 22), 1/3(07 + 13 + 21) & 1/2(09 + 21). Corrections, but no other details are given on plXXXVI. A106: Normal values, /CLINO/, only. Temp; 1/4(01 + 07 + 13 + 19). Press; means reduced to sea level. 1931-1935; 1/3(07 + 13 + 21). 1936-1960; 1/4(01 + 07 + 13 + 19). Reliability: compared with 341630 for the years 1881-1970. | | | | | | | | | | | | | | | |
| 351680: | CELINEGRAD | USSR | 51.1N | 71.4E | 348m | 1891-1978 | 10 | 1891 | .357960: | BALHAS/BALKHASH | USSR | 46.9N | 75.0E | 423m | 1951-1980 | 10 | 1951 |
| Sources: | A1, A8 | Notes: Also known as Akmolinsk. A1: 1891-1915; 1/3(07 + 13 + 21) corrected to means of 24 hours. 1916-1919; 1/3(07 + 13 + 19). 1920-1935; 1/3(07 + 13 + 21) corrected to means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1950; 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. 1891-1915; alt = 347m. 1916-1919; 51 12'N 71 23'E. In 1919 moved to 353m. NB. 1891-1915 temp reduced to a standard height by assuming a decrease of .6C for every 100m. A8: No details available. Reliability: compared with 353580 & 353940 for the years 1901-1980 & 1951-1980. | | | | | | | | | | | | | | | |
| 353580: | TURGAJ | USSR | 49.6N | 63.5E | 123m | 1900-1980 | 10 | 1901 | .358490: | KAZALINSK | USSR | 45.8N | 62.1E | 67m | 1921-1978 | 10 | 1921 |
| Sources: | A1 | Notes: A1: 1900-1921; 1/3(07 + 13 + 21) corrected to means of 24 hours and reduced to a standard height of 124m by assuming a decrease of 0.6C for every 100m. 49 38'N 63 27'E. 1922-1935; 1/3(07 + 13 + 21) local time corrected to means of 24 hours. Alt = 130m. 1936; 1/4(01 + 07 + 13 + 19) local time. 1937; 49 38'N 63 30'E, alt = 121m. 1941-1970; 1/4(01 + 07 + 13 + 19) local time corrected to means of 24 hours. Alt = 124m. 1961-1970; alt = 123m. Reliability: compared with 351080, 353940 & 357960 for the years 1901-1980, 1951-1980 & 1951-1980. | | | | | | | | | | | | | | | |
| 361770: | SEMIPALATINSK | USSR | 50.4N | 80.3E | 206m | 1951-1980 | 10 | 1951 | | | | | | | | | |
| Sources: | A1 | Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 50 21'N 80 15'E, alt = 206m. Reliability: compared with 357960 for the years 1951-1980. | | | | | | | | | | | | | | | |

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| 368700: ALMA-ATA | USSR | 43.3N | 76.9E | 1879-1980 | 20 | 1881 | 370990: SOCHI | USSR | 43.6N | 39.7E | 56m | 1951-1970 | 10 | 1951 | | | | | | | |
| Sources: A1 | Notes: Also known as Verniy. A1: 1881-1920; Alt; 825m. $1/3(07 + 13 + 21)$ corrected to the means of 24 hours. Reduced to a standard height by assuming a decrease of .6C for every 100m. 1921-1935; $1/3(07 + 13 + 21)$ corrected to the means of 24 hours. Alt; 841m. 1936-1940; $1/4(01 + 07 + 13 + 19)$ local time. 1941-1950; $1/4(01 + 07 + 13 + 19)$ local time corrected to the means of 24 hours. Alt; 848m. 1951-1960; alt = 847m. NB. Corrections for the period 1881-1914 & for an unspecified site change are given on pXIII, vol 79. Reliability: compared with 384570 & 369740 for the years 1881-1980 & 1886-1960. Corrected for a station move 1910/1911. Correction Factors: Stations used: 384570 & 369740. Calculation dates: 1911-1960. Correction dates: 1881-1910. Factors: 30 31 24 4 -6 -3 -3 0 7 13 23 27. | | | | | | | | | | | | | | | | | | | | |
| 369740: MATYN | USSR | 41.4N | 76.0E | 2049m | 1886-1960 | 10 | 1886 | 375490: TBILISI | USSR | 41.7N | 44.8E | 490m | 1844-1980 | 10 | 1844 | | | | | | |
| Sources: A1 | Notes: A1: 1886-1915; means of (hours not given). Alt = 2031m. 1916-1935; $1/3(07 + 13 + 21)$ local time, corrected to the means of 24 hours. Alt = 2015m. 1936-1960; $1/4(01 + 07 + 13 + 19)$ local time, corrected to the means of 24 hours. Alt; 1936-1940 = 2020m, 1941-1950 = 2050m, 1951-1960 = 2049m. Reliability: compared with 384570 for the years 1886-1960. | | | | | | | | | | | | | | | | | | | | |
| 370180: TUAPSE | USSR | 44.1N | 39.1E | 95m | 1951-1970 | 10 | 1951 | 379850: LEMKORAN | USSR | 38.7N | 48.8E | 11m | 1847-1970 | 10 | 1951 | | | | | | |
| Sources: A1 | Notes: A1: 1951-1970; 44 06'N 39 04'E, alt = 0m. Probably $1/4(01 + 07 + 13 + 19)$ local time corrected to means of 24 hours. Reliability: compared with 349290 & 348800 for the years 1951-1970. | | | | | | | | | | | | | | | | | | | | |
| 370310: ARMAVIR | USSR | 45.0N | 41.1E | 208m | 1951-1970 | 10 | 1951 | 379900: BAKU | USSR | 40.4N | 49.8E | 0m | 1848-1882 | 33 | | | | | | | |
| Sources: A1 | Notes: A1: 1951-1970; 44 59'N 41 07'E, alt = 208m. Probably $1/4(01 + 07 + 13 + 19)$ local time corrected to the means of 24 hours. Reliability: compared with 349290 & 348800 for the years 1951-1970. | | | | | | | | | | | | | | | | | | | | |
| 370500: PJATIGORSK | USSR | 44.1N | 43.0E | 532m | 1951-1980 | 10 | 1951 | 380010: FORT SEVCENKO | USSR | 44.6N | 50.3E | 3820m | 1848-1980 | 10 | 1848 | | | | | | |
| Sources: A1 | Notes: A1: 1951-1970; 44 03'N 43 02'E, alt = 0m. Probably $1/4(01 + 07 + 13 + 19)$ local time corrected to means of 24 hours. Reliability: compared with 348800 & 370540 for the years 1951-1980. | | | | | | | | | | | | | | | | | | | | |
| 370540: MINERALNYE VODY | USSR | 44.2N | 43.1E | 314m | 1951-1970 | 10 | 1951 | Sources: A1 | Notes: A1: 1951-1970; 44 13'N 43 06'E, alt = 314m. Probably $1/4(01 + 07 + 13 + 19)$ local time corrected to means of 24 hours. Reliability: compared with 370500 for the years 1951-1970. | | | | | | | | | | | | |

382620: CIMBAJ/CHIMBAY USSR 43.0N 59.8E 66m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 42 57'N 59 49'E, alt = 66m. Reliability: compared with 358490 for the years 1951-1970.

384130: TAMDY USSR 41.7N 64.6E 212m 1963-1980 11 1963
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 384570 for the years 1963-1980.

384570: TASKENT USSR 41.3N 69.3E 428m 1870-1980 10 1881
 Sources: A1, A2

Notes: A1: 1881-1915; 1/3(07 + 13 + 21) corrected to the means of 24 hours. Temp reduced to a standard height by assuming a decrease of .6C for every 100m. Alt = 478m. 1921-1935; 1/3(07 + 13 + 21) local time corrected to means of 24 hours. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) 30E meridian time, corrected to the means of 24 hours. 1941-1950; Alt = 479m. 1951-1960; Alt = 428m. A2: 1870-1873; Alt = 52m. 1874-1882; Alt = 32m. No other details available. Reliability: compared with 369740 & 368700 for the years 1886-1980 & 1881-1980.

385070: KRASNOVODSK USSR 40.0N 53.0E 20m 1883-1980 20 1883
 Sources: A1

Notes: A1: 1883-1915; alt = -20m. 1/3(07 + 13 + 21) corrected to means of 24 hours. Reduced to a standard height by assuming a decrease of .6C for every 100m. 1921-1935; 1/3(07 + 13 + 21). Alt; -5m. 1936-1940; 1/4(01 + 07 + 13 + 19) local time. 1941-1960; 1/4(01 + 07 + 13 + 19) local time corrected to the means of 24 hours. Alt; 1936-1940 = -7m, 1941-1950 = -20m, 1951-1960 = -89m. Reliability: compared with 375490 & 380010 for the years 1883-1980. Corrected for a height change 1950-1951 (-20m to 20m). Correction Factors: Stations used: 375490 & 380010. Calculation dates: 1951-1980. Correction dates: 1883-1950. Factors: -16 -15 -17 -13 -17 -8 -15 -16 -17 -22 -23 -25.

386870: CARDZOU USSR 39.1N 63.6E 193m 1963-1980 11 1963
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 388800 for the years 1963-1980.

388800: ASHABAD USSR 38.0N 58.3E 230m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. 37 58'N 58 20'E, alt = 230m. Reliability: compared with 386870 for the years 1951-1980.

390000: ZAMETCHINO USSR 1901-1954 10 1901
 Sources: A1

Notes: A1: 1951-1960; 1/4(01 + 07 + 13 + 19) local time corrected to mean of 24 hours. No other details available. Reliability: compared with 369740 for the years 1901-1954.

400010: KAMISHLI SYRIA 37.1N 41.2E 455m 1952-1980 10 1952
 Sources: A1

Notes: A1: 1952-1960; 37 03'N 41 13'E, alt = 451m. Means of either 1/24(00 + 01 + ..23), 1/8(00 + 03 + ...21), 1/4(00 + 06 + 12 + 18) or an empirical formula based on 06, 12 & 18 GMT. 1961-1970; alt = 455m. Reliability: compared with 400450 for the years 1952-1980.

400070: ALEPPO SYRIA 36.2N 37.2E 393m 1951-1980 10 1952
 Sources: A1

Notes: A1: 1951-1970; 36 11'N 37 13'E, alt = 392m. Means of either 1/24(00 + 01 + ...23), 1/8(00 + 03 + ...21), 1/4(00 + 06 + 12 + 18) or an unknown empirical formula using 06, 12 & 18 GMT. Reliability: compared with 400610 & 400220 for the years 1955-1980 & 1952-1980.

400220: LATTAKIA SYRIA 35.6N 35.8E 9m 1952-1980 10 1952
 Sources: A1

Notes: A1: 1952-Dec 1954 & Mar-Dec 1960; 35 33'N 35 45'E, alt = 8m. Dec 1954-Feb 1960; Jabieh, 35 22'N 35 55'E, alt = 14m. Means of either 1/24(00 + 01 + ..23), 1/8(00 + 03 + 06 + ...21), 1/4(00 + 06 + 12 + 18) or an empirical formula based on observations at 06, 12 & 18 GMT. 1969-1970; 35 30'N 35 47'E, alt = 9m. Reliability: compared with 400070 & 400610 for the years 1952-1980 & 1955-1980.

400300: HAMA SYRIA 35.1N 36.4E 1951-1961 61
 Sources: A1

Notes: A1: 1951-1960; 35 08'N 36 45'E, alt = 309m. Means of either 1/24(00 + 01 + 02 + ..23), 1/8(00 + 03 + ...21), 1/4(00 + 06 + 12 + 18) or an empirical formula based on observations at 06, 12 & 18 GMT. Reliability: uncheckable.

400390: RAQQA SYRIA 35.9N 39.0E 1957-1964 61
 Sources: A1

Notes: A1: 1951-1960; means of either 1/24(00 + 01 + ...23), 1/8(00 + 03 + ...21), 1/4(00 + 06 + 12 + 18) or of empirical formula based on observations taken at 06, 12 & 18h. All times are GMT. No other details available. Reliability: uncheckable.

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| 400450: | DEIR EZZOR | SYRIA | 35.3N | 40.2E | 212m | 1951-1980 | 10 | 1952 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1970; 35 20'N 40 09'E, alt = 203m. Means of either 1/24(00 + 01 + ..23), 1/8(00 + 03 + ..21), 1/4(00 + 06 + 12 + 18) or an empirical formula based on observations taken at 06, 12 & 18 GMT. 1961-1970; alt = 212m. Reliability: compared with 400010 for the years 1952-1980. | | | | | | | | | | | | | |
| 400610: | PALMYRA | SYRIA | 34.6N | 38.3E | 404m | 1955-1980 | 10 | 1955 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1955-1970; 34 33'N 38 18'E, alt = 404m. Means of either 1/24(00 + 01 + ..23), 1/8(00 + 03 + ..21), 1/4(00 + 06 + 12 + 18) or an empirical formula based on 06, 12 & 18 GMT. Reliability: compared with 400070, 400220 & 401000 for the years 1955-1980. 1955 values are 3C too warm & have been coded as missing. | | | | | | | | | | | | | |
| 400800: | DAMASCUS/MEZEE | SYRIA | 33.5N | 36.1E | 724m | 1951-1980 | 20 | 1951 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1970; 33 29'N 36 14'E, alt = 729m. Means of either 1/24(00 + 01 + ..23), 1/8(00 + 03 + ..21), 1/4(00 + 06 + 12 + 18) or an empirical formula based on observations at 06, 12 & 18 GMT. Reliability: compared with 401000 & 401020 for the years 1951-1980. Corrected for a probable height change 1969/1970. Correction Factors: Stations used: 401000 & 401020. Calculation dates: 1951-1969 & 1970-1980. Correction dates: 1951-1969. Factors: -8 -8 -6 -6 -4 -5 -7 -10 -19 -15 -8. | | | | | | | | | | | | | |
| 401000: | BEIRUT(BEYROUTH) | LEBANON | 33.9N | 35.5E | 24m | 1842-1980 | 22 | 1842 | | | | | | |
| Sources: | A1, A10, A35, A40, A63 | | | | | | | | | | | | | |
| Notes: | A1: 1875-1920; means of 1/3(0830 + 1430 + 2030) 30E meridian time. Alt: 34m, 1921-1950; means as above, but time is Civil Time. 1951-1960; means of 1/2(mean max + mean min). 1875-1940; Bir Hassan, alt = 66m. 1953-Mar 1953; Khaldeh Airport, 33.8N 35.5E, alt = 24m. A10: No details available. A35: No details available. A40: No details available. A63: No details available. Reliability: compared with 401060, 401840 & 401847 for the years 1921-1960, 1882-1980 & 1861-1960. Corrected for a site change. Correction Factors: Stations used: 401060. Calculation dates: 1921-1940 & 1951-1980. Correction dates: 1842-1940. Factors: -9 -11 -9 -10 -19 -24 -28 -27 -19 -14 -6 0. | | | | | | | | | | | | | |
| 401020: | RAYACK | LEBANON | 33.9N | 36.0E | 921m | 1951-1980 | 12 | 1951 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; 33 52'N 36 00'E, alt = 921m. 1/2(max + min). Reliability: compared with 401000 for the years 1951-1980. | | | | | | | | | | | | | |
| 401030: | TRIPOLI | LEBANON | 34.6N | 36.0E | 10m | 1951-1980 | 52 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; Kleiate, 34 35'N 36 00'E, alt = 8m. 1/2(max + min). Reliability: compared with 401000 & 401020 for the years 1951-1980. Record | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | shows inhomogeneity around 1960 but too many missing observations to correct data. |
| 401060: | KSARA OBSY | LEBANON | 33.8N | 35.9E | 918m | 1921-1960 | 10 | 1921 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1921-1952; means of 24 hours. 1953-1960; 1/8(03 + 06 + 09 + ...24). 33 50'N 35 53'E, alt = 918m. Reliability: compared with 401000 for the years 1921-1960. | | | | | | | | | | | | | |
| 401530: | MT. KENA | ISRAEL | 33.0N | 35.5E | | 1951-1960 | 61 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; 1/2(max + min). 32 59'N 35 30'E, alt = 936m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 401540: | HAIFA | ISRAEL | 32.8N | 35.0E | | 1881-1960 | 61 | | | | | | | |
| Sources: | A1, A10 | | | | | | | | | | | | | |
| Notes: | A1: Alt; 11m. Means of 1/2(max + min). A10: Alt; 8m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 401730: | NATANYA | ISRAEL | 32.3N | 34.9E | | 1951-1960 | 61 | | | | | | | 83 |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; 1/2(max + min). 32 20'N 34 51'E, alt = 33m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 401760: | JAFFA | ISRAEL | 32.1N | 34.5E | | 20m | 1880-1913 | 61 | | | | | | |
| Sources: | A29, A43, A77 | | | | | | | | | | | | | |
| Notes: | A29: No details available. A77: Alt; 20m. No other details available. A43: Means of 1/2(max + min). 1907-1909; 32 27'N 32 03'E of Paris, alt = 30m. 1910-1914; 32 03'N 32 24'E of Paris, alt = 30m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 401770: | TEL AVIV | ISRAEL | 32.1N | 34.8E | | 1951-1960 | 61 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1951-1960; Port, 32 06'N 34 47'E, alt = 10m. 1/2(max + min). Reliability: uncheckable. | | | | | | | | | | | | | |
| 401800: | LOD AIRPORT | ISRAEL | 32.0N | 34.9E | 49m | 1951-1980 | 70 | 1963 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | A1: 1/2(max + min). 1951-1960; 32 00'N 34 54'E, alt = 49m. 1961-1970; 1/24(23 + 24 + 01 + 02 + ...21 + 22) GMT. 32 00'N 34 54'E, alt = 45m. Airport. From 1974 station known as Ben Gurion Airport. Reliability: compared with 401900, 402700 & 401000 for the years 1951-1980. Station may have moved, causing inhomogeneity in 1962. | | | | | | | | | | | | | |

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| 401807: SARONA | ISRAEL | 32.1N | 34.8E | 20m | 1880-1889 | 63 | | | | | | | |
| Sources: A77 | | | | | | | | | | | | | |
| Notes: A77: Alt; 20m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 401840: JERUSALEM / 535015 | ISRAEL | 31.8N | 35.2E | 809m | 1846-1980 | 50 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings for 1921-1929, otherwise 1/2(max + min). 1846-1960; Sites changed many times & were not always the same for temp & rain. For many periods the exact locations are unknown. No details concerning any differences between locations are available (fuller details on p21, vol "1941-1950" & p183, vol 2). 1961-1970; alt = 811m. This station was formerly station 535015, 31 47'N 35 13'E, alt = 809m. See also station 401847, Old City. Reliability: compared with 401847, 401800, 401000 & 402700 for the years 1882-1960, 1951-1980, 1882-1980 & 1923-1980. Shows very large increase in variance & change in mean, 1930-1950, when compared with 401847 & 402700. Also shows cooling trend, 1960-1980, when compared with 401800, 401000 & 402700. | | | | | | | | | | | | | |
| 401847: JERUSALEM/OLD CITY | ISRAEL | 31.8N | 35.2E | 810m | 1846-1960 | 10 | 1861 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings for 1921-1929, otherwise 1/2(max + min). Sites changed many times & were not always the same for temp & rain. For many periods the exact locations are unknown. No details concerning any differences between locations are available (fuller notes are on p21, vol "1941-1950" & on p183, vol 2). The rain series 1846-1960 is however from this site, Old City, & is a uniform series, having been corrected for different sites & faulty observations. NB. See also station 401840. Reliability: compared with 401840, 401000 & 402700 for the years 1882-1960, 1882-1960 & 1923-1960. | | | | | | | | | | | | | |
| 401910: BEERSHEVA | JORDON | 31.2N | 34.8E | | 1951-1960 | 61 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 31 14'N 34 47'E, alt = 275m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 401990: EILAT | ISRAEL | 29.6N | 35.0E | 11m | 1951-1980 | 10 | 1951 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 29 33'N 34 57'E, alt = 11m. 1961-1970; 1/24(23 + 24 + 01 + 02 + ...21 + 22) GMT. Alt; 14m. Reliability: compared with 402700 & 401800 for the years 1951-1980. | | | | | | | | | | | | | |
| 40.007: HEBRON | JORDON | 31.5N | 35.1E | 884m | 1896-1908 | 63 | | | | | | | |
| Sources: A29 | | | | | | | | | | | | | |
| Notes: A29: Alt; 884m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 402300: IRBID | JORDON | 32.6N | 35.9E | | 585m | 1955-1970 | 61 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 32 33'N 35 51'E, alt = 585m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 402500: H-4 JORDAN | JORDON | 32.5N | 38.2E | | 686m | 1961-1980 | 10 | 1961 | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 32 30'N 38 12'E, alt = 686m. Reliability: compared with 400610 for the years 1961-1980. | | | | | | | | | | | | | |
| 402700: AMMAN AIRPORT | JORDON | 32.0N | 35.9E | | 771m | 1923-1980 | 10 | 1923 | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1/2(max + min). 1923-1950; 31 58'N 35 55'E, alt = 2554ft. 1951-1960; 31 57'N 35 57'E, alt = 766m. 1961-1970; 31 59'N 35 59'E, alt = 766m. Reliability: compared with 401000 for the years 1923-1980. | | | | | | | | | | | | | |
| 402900: JERUSALEM | ISRAEL | 31.9N | 35.2E | | 755m | 1951-1967 | 61 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 31 52'N 35 13'E, alt = 755m. 1/2(max + min). Reliability: uncheckable. | | | | | | | | | | | | | |
| 403100: MA'AN | JORDON | 30.2N | 35.8E | | 1069m | 1961-1980 | 10 | 1961 | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1961-1970; 1/2(max + min). 30 10'N 35 47'E, alt = 1069m. Reliability: compared with 401990 & 402700 for the years 1961-1980. | | | | | | | | | | | | | |
| 403720: KUWAIT INTL AIRPORT | KUWAIT | 29.4N | 48.0E | | 56m | 1956-1981 | 10 | 1956 | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 29 22'N 48 00'E, alt = 15m. Reliability: compared with 404280 for the years 1962-1981. | | | | | | | | | | | | | |
| 403750: TABOUK | SAUDI ARABIA | 28.4N | 36.6E | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 403940: HAIL | SAUDI ARABIA | 27.5N | 41.7E | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|-------|-----------|-----------|----------------------------------------|--------------------------------|--------------|-------|-----------|-----------|-----------|------|------|
| 404000: WEJH Sources: Al | SAUDI ARABIA | 26.2N | 36.5E | 1966-1976 | 61 | 404490: SHARJAH/TRUCIAL Sources: Al | SAUDI ARABIA | 25.3N | 55.4E | 2m | 1933-1960 | 10 | 1934 | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | |
| 404050: KHASSIM Sources: Al | SAUDI ARABIA | 26.3N | 44.0E | 1967-1976 | 61 | 404600: MUSCAT Sources: Al | OMAN | 23.5N | 58.3E | 1893-1981 | 62 | | | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | |
| 404160: DHAHRAN Sources: Al | BAHREIN | 26.3N | 50.2E | 22m | 1951-1976 | 70 | 404770: JEDDAH Sources: Al | SAUDI ARABIA | 21.5N | 39.2E | 11m | 1951-1976 | 62 | |
| Notes: Al: 1951-1960; 1/2(max + min). 26 17'N 50 09'E, alt = 22m. Reliability: compared with 404270 & 404380 for the years 1951-1976. Record shows evidence of a jump 1960/1961. | | | | | | | | | | | | | | |
| 404270: 'BAHRAIN/MUHARRAQ Sources: Al | BAHREIN | 26.2N | 50.6E | 2m | 1902-1982 | 10 | 404800: TAIF Sources: Al | YEMEN | 21.5N | 40.5E | 1966-1976 | 61 | | |
| Notes: Al: 1901-1946; Bahrain Observatory. 1947-1950; Muharraq, 26 14'N 50 35'E, alt = 30ft. 1/2(max + min). 1951-1960; 26 16'N 50 37'E, alt = 2m. Reliability: compared with 404490, 404380 & 408460 for the years 1933-1960, 1941-1976 & 1902-1973. | | | | | | | | | | | | | | |
| 404280: DOHA I.A. Sources: Al | QATAR | 25.3N | 51.6E | 1962-1981 | 10 | 405690: KHAMIS MUSHAIT Sources: Al | SAUDI ARABIA | 18.3N | 42.8E | 1967-1976 | 61 | | | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: compared with 404270 for the years 1962-1980. | | | | | | | | | | | | | | |
| 404300: MEDINA Sources: Al | SAUDI ARABIA | 24.7N | 39.7E | 672m | 1956-1976 | 61 | 405720: GEZAN Sources: Al | SAUDI ARABIA | 16.9N | 42.6E | 1967-1976 | 61 | | |
| Notes: Al: 1951-1960; 1/2(max + min). 24 39'N 39 39'E, alt = 594m. Reliability: uncheckable. | | | | | | | | | | | | | | |
| 404380: RIYADH Sources: Al | SAUDI ARABIA | 24.7N | 46.7E | 609m | 1941-1976 | 12 | 405750: SALALAH Sources: Al | OMAN | 17.1N | 54.1E | 17m | 1942-1981 | 12 | 1943 |
| Notes: Al: 1/2(max + min). 1941-1945; 24 39'N 46 42'E, alt = 1938ft. 1958-1960; 24 42'N 46 43'E, alt = 594m. Reliability: compared with 404270 for the years 1941-1976. | | | | | | | | | | | | | | |
| 404390: YENBO Sources: Al | SAUDI ARABIA | 24.1N | 38.1E | 1967-1975 | 61 | 405860: RIYAN Sources: Al | YEMEN | 14.7N | 49.4E | 23m | 1942-1960 | 11 | 1943 | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | |

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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------|-------|-------|------|-----------|----|------|
| 405970: | ADEN/KHORMAKSAR | YEMEN | 12.8N | 45.1E | 3m | 1881-1967 | 10 | 1881 |
| Sources: | All | | | | | | | |
| Notes: All: 1880-1950; means of 1/2(daily max + daily min). Site changed, but not exposure, in Nov 1936, no corrections considered necessary. In Jan 1940 site moved from 12°49'N 45°02'E to 12°47'N 44°59'E & in May 1947 to Khormaksar at 12°50'N 45°01'E. 1951-1960; Alt = 4m. Means of 1/2(daily max + daily min) read at station zone time nearest to 0900 GMT. Reliability: compared with 405860, 404270 & 632600 for the years 1942-1960, 1902-1967 & 1911-1980. | | | | | | | | |
| 406040: | SINJAR | IRAQ | 36.3N | 41.8E | 476m | 1962-1975 | 61 | |
| Sources: | All | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | |
| 406080: | MOSUL | IRAQ | 36.3N | 43.2E | 222m | 1923-1980 | 12 | 1926 |
| Sources: | All | | | | | | | |
| Notes: All: 1941-1950; 1/2(max + min). 36°19'N 43°09'E, alt = 733ft. 1951-1960; alt = 223m. 1/8(00 + 03 + ...21) GMT. April 1951-July 1952 21h observations are missing. Reliability: compared with 406210 & 406500 for the years 1939-1980 & 1926-1980. | | | | | | | | |
| 406110: | SALAHADDIN | IRAQ | 36.4N | 44.2E | | 1970-1975 | 61 | |
| Sources: | All | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | |
| 406210: | KIRKUK | IRAQ | 35.5N | 44.4E | 331m | 1939-1980 | 12 | 1939 |
| Sources: | All | | | | | | | |
| Notes: All: 1951-1960; 1/8(00 + 03 + ...21) GMT. Jan 1951-Aug 1952 21h observations missing. 35°28'N 44°24'E, alt = 331m. Reliability: compared with 406080 & 406500 for the years 1939-1980. | | | | | | | | |
| 406290: | ARA | IRAQ | 34.5N | 42.0E | | 1970-1975 | 61 | |
| Sources: | All | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | |
| 406370: | KHANAQIN | IRAQ | 34.3N | 45.4E | 201m | 1938-1975 | 22 | 1938 |
| Sources: | All | | | | | | | |
| Notes: All: 1941-1950; 1/2(max + min). 34°18'N 45°26'E, alt = 663ft. 1951-1960; means of 8 daily observations except the following observations were missing; 1951-Mar 1957; 00, 09 & 21h GMT & April 1957-1960; 00 + 21h GMT. Alt; 201m. Reliability: compared with 406210 & 406500 for the years 1939-1975 & 1938-1975. Record shows discontinuity around May 1952, whose | | | | | | | | |
| value is missing. No other evidence of change but record has been corrected. Correction Factors: Stations used: 406210 & 406500. Calculation dates: 1941-1951 & 1953-1966. Correction dates: 1938-April 1952. Factors: 4 4 3 6 16 14 16 11 11 6 9 4. | | | | | | | | |
| 406420: | RUTBAH | IRAQ | 33.0N | 40.3E | 615m | 1929-1980 | 12 | 1929 |
| Sources: | All | | | | | | | |
| Notes: All: 1941-1950; 1/2(max + min). 33°02'N 40°17'E, alt = 2019ft. 1951-1960; alt = 615m. 1/8(00 + 03 + ...21) GMT. Reliability: compared with 406500 for the years 1929-1980. | | | | | | | | |
| 406480: | HABBANIYA | IRAQ | 33.4N | 43.6E | 45m | 1937-1969 | 52 | |
| Sources: | All | | | | | | | |
| Notes: All: 1951-1960; 1/8(00 + 03 + ...21) GMT. Nov 1954-May 1955; 09, 15 & 21h observations missing, Sept 1955; 00, 09, 15, 18 & 21h missing. 33°22'N 43°4'E, alt = 45m. Reliability: compared with 406500 & 406210 for the years 1937-1969 & 1939-1969. Record shows discontinuities probably due to missing observations ie. changing observation times. Insufficient data to correct. | | | | | | | | |
| 406500: | BAGHDAD | IRAQ | 33.3N | 44.4E | 34m | 1888-1980 | 12 | 1888 |
| Sources: | All | | | | | | | |
| Notes: All: 1888-1930; means of 1/2(daily max + daily min). 1937-1940; 1/3(02 + 06 + 13) GMT. 1941-1950; 1/2(max + min). 1931-1937 & 1951-1960; means are based on 8 daily observations. NB. Prior to 1937 observations were taken 3 times daily at Hinsida, about 6 miles from the airport (33°20'N 44°22'E). Reliability: compared with 406420, 408460 & 406890 for the years 1929-1980, 1888-1973 & 1920-1980. | | | | | | | | |
| 406580: | MUKHAIB | IRAQ | 32.0N | 42.3E | 311m | 1963-1975 | 61 | |
| Sources: | All | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | |
| 406650: | KUT-EL-HAI | IRAQ | 32.2N | 46.1E | 15m | 1940-1980 | 12 | 1941 |
| Sources: | All | | | | | | | |
| Notes: All: 1951-1960; 1/8(00 + 03 + ...21) GMT. Various observations missing at different periods, see p301, vol "1951-1960". 32°10'N 46°03'E, alt = 15m. Reliability: compared with 406720 & 406760 for the years 1940-1966 & 1941-1966. | | | | | | | | |
| 406700: | NAJAF | IRAQ | 32.0N | 44.3E | 12m | 1963-1975 | 61 | |
| Sources: | All | | | | | | | |
| Notes: All: 1/8(00 + 03 + ...21) GMT. No other details available. Reliability: uncheckable. | | | | | | | | |

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| 406720: | DIWANIYA | IRAQ | 32.0N | 45.0E | 20m | 1940-1980 | 22 | 1940 | |
| Sources: | All | | | | | | | | uncheckable. |
| Notes: | All: 1951-1960; 1/8(00 + 03 + ...21) GMT. 21h observation missing for various periods, see p301, vol "1951-1960". 31 59'N 44 59'E, alt = 20m. Reliability: compared with 406650 & 406760 for the years 1940-1966 & 1941-1980. Corrected for discontinuity 1953/1954, of about 1C. Correction Factors: Stations used: 406650 & 406760. Calculation dates: 1941-1953 & 1954-1966. Correction dates: 1940-1953. Factors: 7 6 9 8 6 5 5 1 1 6 9 5 6. | | | | | | | | |
| 406760: | MASIRIYA | IRAQ | 31.0N | 46.2E | 3m | 1941-1980 | 12 | 1941 | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1951-1960; 1/8(00 + 03 + ...21) GMT. 15 & 21h observations missing for various periods, see p301, vol "1951-1960". 31 01'N 46 14'E, alt = 3m. Reliability: compared with 406890 & 406880 for the years 1941-1980. | | | | | | | | |
| 406880: | SHAIBA | IRAQ | 30.5N | 47.8E | 19m | 1900-1956 | 52 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1951-1960; 1/3(03 + 06 + 12) GMT. 30 25'N 47 39'E, alt = 19m. Reliability: compared with 406890 for the years 1920-1956. 1951-1956 is inhomogeneous with earlier years but contains many missing observations after a long data gap so is uncorrectable. | | | | | | | | |
| 406890: | BASRAH | IRAQ | 30.4N | 47.7E | 2m | 1920-1980 | 12 | 1920 | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1/2(max + min). 1900-Jan 1922; 30 30'N 47 50'E, alt = 22ft. 1900-1919; several changes in thermometer occurred. Feb 1922 moved from Municipal Health Office to Shaibah, 30 26'N 47 41'E, alt = 22ft. 1937-1940; 30 34'N 47 47'E, alt = 14m. 1/3(02 + 06 + 13) GMT. 1941-1960; alt = 45ft. Reliability: compared with 406760, 406880 & 406500 for the years 1941-1980, 1920-1956 & 1920-1980. | | | | | | | | |
| 407060: | TABRIZ | IRAN | 38.1N | 46.3E | 1362m | 1963-1979 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | |
| 407450: | MASHHAD | IRAN | 36.3N | 59.6E | | 1893-1979 | 10 | 1906 | |
| Sources: | All | | | | | | | | |
| Notes: | All: Means of 1/2(max + min). 1892-1940; alt = 3104ft. 1951-1960; alt = 985m. No other details available. Reliability: compared with 416610 & 385070 for the years 1906-1960 & 1906-1979. | | | | | | | | |
| 407540: | TEHRAN MEHRABAD | IRAN | 35.7N | 51.4E | 1191m | 1884-1979 | 62 | | |
| Sources: | All, A29 | | | | | | | | |
| Notes: | All: 1893-1950; Alt = 4002ft. 1951-1960; Alt = 1191m. Means of 1/2(mean daily max + mean daily min). A29: No details available. Reliability: | | | | | | | | |
| 408000: | ESFAHAM | IRAN | 32.7N | 51.7E | | 1893-1979 | 62 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: Means of 1/2(max + min). Alt; 1893-1930 = 5817ft, 1931-1940; observations taken on College roof, 1951-1960 = 1590m. Reliability: uncheckable. | | | | | | | | |
| 408310: | ABADAN | IRAN | 30.4N | 48.3E | 3m | 1951-1979 | 62 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 30 22'N 48 15'E, alt = 3m. Reliability: uncheckable. | | | | | | | | |
| 408410: | KERMAN | IRAN | 30.3N | 57.0E | 1749m | 1951-1979 | 62 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). Station moved to Airport Dec 1956, 30 15'N 56 58'E, alt = 1749m. Reliability: uncheckable. | | | | | | | | |
| 408460: | BUSHEHR | IRAN | 29.0N | 50.8E | 14m | 1877-1973 | 12 | 1878 | |
| Sources: | All | | | | | | | | |
| Notes: | All: Means of 1/2(daily max + daily min). Alt; 14m. Reliability: compared with 406500, 406890 & 404270 for the years 1888-1973, 1920-1973 & 1902-1973. | | | | | | | | |
| 408480: | SHIRAZ | IRAN | 29.6N | 52.5E | 1491m | 1951-1979 | 62 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 29 36'N 52 32'E, alt = 1539m. Reliability: uncheckable. | | | | | | | | |
| 409110: | MAZARI/SHARIF | AFGHANISTAN | 36.6N | 67.1E | 378m | 1964-1980 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: No details available. Reliability: uncheckable. | | | | | | | | |
| 409380: | HERAT | AFGHANISTAN | 34.1N | 62.2E | 964m | 1963-1980 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: No details available. Reliability: uncheckable. | | | | | | | | |
| 409480: | KABUL ARPT | AFGHANISTAN | 34.6N | 69.2E | 1803m | 1961-1980 | 61 | | |
| Sources: | All | | | | | | | | |
| Notes: | All: No details available. Reliability: uncheckable. | | | | | | | | |

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| 409900: | KANDAHAR ARPT | AFGHANISTAN | 31.5N | 65.5E | 1005m | 1963-1980 | 61 | | 416600: | QUETTA/SAMUNGLI | PAKISTAN | 30.3N | 66.9E | 1601m | 1947-1980 | 12 | 1949 |
| Sources: | All | | | | | | | | Sources: | All | | | | | | | |
| Notes: All: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 415300: | PESHAWAR | PAKISTAN | 34.0N | 71.6E | | 1862-1980 | 12 | 1931 | | | | | | | | | |
| Sources: | All | | | | | | | | | | | | | | | | |
| Notes: All: Alt; 1853-1920 = 1113ft, 1921-1950 = 1164ft, 1951-1960 = 359m. Means of 1/2(daily max + daily min). Station moved in Nov 1945, but no corrections were necessary. Reliability: compared with 415730 & 420270 for the years 1947-1971 & 1931-1980. | | | | | | | | | | | | | | | | | |
| 415600: | PARACHINAR | AFGHANISTAN | 33.9N | 70.1E | 1725m | 1948-1980 | 62 | | 416610: | QUETTA CANTONMENT | PAKISTAN | 30.2N | 67.0E | 1673m | 1878-1960 | 10 | 1951 |
| Sources: | All | | | | | | | | Sources: | All | | | | | | | |
| Notes: All: 1951-1960; 1/2(max + min). 33 52'N 70 05'E, alt = 1729m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 415730: | MURREE | PAKISTAN | 33.9N | 73.4E | 2168m | 1947-1971 | 12 | 1948 | | | | | | | | | |
| Sources: | All | | | | | | | | | | | | | | | | |
| Notes: All: 1951-1960; 1/2(max + min). 33 54'N 73 24'E, alt = 2168m. Reliability: compared with 420270 for the years 1947-1971. | | | | | | | | | | | | | | | | | |
| 415980: | JHELUM | PAKISTAN | 32.9N | 73.7E | | 1971-1980 | 61 | | 416750: | MULTAN | PAKISTAN | 30.2N | 71.4E | 123m | 1947-1980 | 62 | |
| Sources: | All | | | | | | | | Sources: | All | | | | | | | |
| Notes: All: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 416200: | FORT SANDEMAN | PAKISTAN | 31.4N | 69.5E | 1407m | 1947-1980 | 62 | | 416960: | KALAT | PAKISTAN | 29.0N | 66.5E | | 1882-1979 | 72 | |
| Sources: | All | | | | | | | | Sources: | All | | | | | | | |
| Notes: All: 1951-1960; 1/2(max + min). 31 21'N 69 27'E, alt = 1406m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 416240: | DERA ISMAIL KHAN | PAKISTAN | 31.8N | 70.9E | 174m | 1947-1980 | 62 | | 417120: | DALBANDIN | PAKISTAN | 28.9N | 64.4E | 850m | 1947-1980 | 12 | 1948 |
| Sources: | All | | | | | | | | Sources: | All | | | | | | | |
| Notes: All: 1951-1960; 1/2(max + min). 31 49'N 70 55'E, alt = 174m. Reliability: uncheckable. | | | | | | | | | | | | | | | | | |
| 416400: | LAHORE CITY | PAKISTAN | 31.6N | 74.4E | 214m | 1861-1980 | 10 | 1876 | | | | | | | | | |
| Sources: | All | | | | | | | | | | | | | | | | |
| Notes: All: Means of 1/2(daily max + daily min). 1851-1950; alt = 702ft, 1951-1960 = 214m. The observatory moved 4 miles in Jan 1885, but no corrections were made. The site changed again in Mar 1931 & temp corrections are given on p19, vol 105. Reliability: compared with 420270, 421650 & 420990 for the years 1893-1980, 1878-1980 & 1876-1980. | | | | | | | | | | | | | | | | | |
| 88 | | | | | | | | | | | | | | | | | |
| 417150: | JACOBABAD | PAKISTAN | 28.3N | 68.5E | 56m | 1947-1980 | 12 | 1948 | | | | | | | | | |
| Sources: | All | | | | | | | | | | | | | | | | |
| Notes: All: 1951-1960; 1/2(max + min). 28 18'N 68 28'E, alt = 56m. Reliability: compared with 417120 & 417820 for the years 1947-1980 & 1947-1971. | | | | | | | | | | | | | | | | | |

417390: PANJGUR PAKISTAN 27.0N 64.1E 969m 1947-1980 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 26 58'N 64 06'E, alt = 969m. Reliability: uncheckable.

417560: JIWANI PAKISTAN 25.1N 61.8E 1971-1980 61
 Sources: Al
 Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable.

417590: PASNI PAKISTAN 25.3N 63.5E 9m 1947-1971 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 25 16'N 63 29'E, alt = 9m. Reliability: uncheckable.

417650: HYDERABAD PAKISTAN 25.4N 68.4E 30m 1866-1980 12 1878
 Sources: Al
 Notes: Al: Means of 1/2(daily max + daily min). The observatory was moved in June 1885, but no corrections were applied. On April 15 1955 the observatory moved, but conditions of exposure & environment were similar, so data were combined. Alt; 30m. Reliability: compared with 417820 for the years 1878-1971.

417680: CHHOR PAKISTAN 25.5N 69.0E 1971-1980 61
 Sources: Al
 Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable.

417760: DEIR ALLA JORDON 32.2N 35.6E -224m 1952-1970 61
 Sources: Al
 Notes: Al: 1961-1970; 1/2(max + min). 32 13'N 35 37'E, alt = -224m. Reliability: uncheckable.

417800: KARACHI AIRPORT PAKISTAN 24.9N 67.2E 22m 1947-1980 12 1948
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 24 55'N 67 09'E, alt = 22m. Reliability: compared with 417650 & 417820 for the years 1947-1980 & 1947-1971.

417820: KARACHI/MANORA PAKISTAN 24.8N 67.0E 4m 1856-1971 10 1878
 Sources: Al
 Notes: Al: Alt; 1856-1950 = 13ft, 1951-1960 = 4m. The position of the thermometer shed was changed in Nov 1895 & transferred to Manora from July 1908, but no corrections were made. Means of 1/2(daily max + daily min). Reliability: compared with 417650 for the years 1878-1971.

418580: BOGRA BANGLADESH 24.9N 89.4E 20m 1947-1971 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 24 51'N 89 23'E, alt = 19m. Reliability: uncheckable.

418800: SRIMANGAL BANGLADESH 24.3N 91.7E 23m 1947-1970 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 24 19'N 91 44'E, alt = 21m. Reliability: uncheckable.

419150: JESSORE BANGLADESH 23.2N 89.2E 12m 1947-1971 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). From April 1958 data are from H.M. College, 400 yards from previous site. 23 10'N 89 13'E, alt = 7m. Reliability: uncheckable.

419170: DACCA TEJGAON BANGLADESH 23.8N 90.4E 1970-1980 61
 Sources: Al
 Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable.

419190: NARAYANJANJ BANGLADESH 23.6N 90.5E 8m 1947-1970 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 23 37'N 90 30'E, alt = 8m. Reliability: uncheckable.

419400: CHITTAGONG CITY BANGLADESH 22.4N 91.8E 14m 1947-1980 62
 Sources: Al
 Notes: Al: 1951-1960; 1/2(max + min). 22 21'N 91 50'E, alt = 14m. Reliability: uncheckable.

419500: COX'S BAZAR BANGLADESH 21.4N 92.0E 1971-1980 61
 Sources: Al
 Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable.

420270: SRINAGER INDIA 34.1N 74.8E 1893-1980 10 1893
 Sources: Al
 Notes: Al: Means of 1/2(max + min). No other details available. Reliability: compared with 416400 & 435440 for the years 1893-1980 & 1893-1968.

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| 420710: AMRITSAR/RAJASANSI | INDIA | 31.6N | 74.9E | 234m | 1948-1980 | 10 | 1949 | Sources: Al | | 422610: AGRA | INDIA | 27.2N | 78.0E | 169m | 1862-1980 | 20 | 1876 | | | | | | | | |
| Notes: Al: 1947-1960; 1/2(max + min). 31 38'N 74 52'E, alt = 234m. Reliability: compared with 416400 for the years 1948-1980. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420830: SIMLA | INDIA | 31.1N | 77.2E | 2202m | 1863-1960 | 10 | 1891 | Sources: Al | | 422950: DARJEELING | INDIA | 27.1N | 88.3E | 2128m | 1848-1978 | 22 | 1848 | | | | | | | | |
| Notes: Al: Means of 1/2(daily max + daily min). Alt; 1876-1950 = 7232ft, 1951-1960 = 2202m. The thermometer shed moved in April 1890, the rain gauge several times, between 1876 & 1920, no corrections were made. The station moved in April 1928, from alt of 7232ft to 7224ft. Temp, 1928-1930, is corrected to the old site, see pl9, vol 105. Reliability: compared with 420990 & 421470 for the years 1876-1960 & 1897-1960. Station moved in 1890 but overlap is too short to correct data. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 420990: LUDHIANA | INDIA | 30.9N | 75.9E | 247m | 1868-1980 | 10 | 1876 | Sources: Al | | 423140: DIBRUGARH | INDIA | 27.5N | 94.8E | 106m | 1901-1980 | 10 | 1902 | | | | | | | | |
| Notes: Al: Alt; 247m. Means of 1/2(daily max + daily min). In 1929 the station moved 2 miles, but comparative observations were considered unnecessary. Reliability: compared with 416400 & 420830 for the years 1876-1980 & 1876-1960. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 421470: MUKTESWAR KUMAON | INDIA | 29.5N | 79.7E | 2311m | 1897-1980 | 10 | 1898 | Sources: Al | | 423390: JODHPUR | INDIA | 26.3N | 73.0E | 224m | 1897-1980 | 80 | 90 | | | | | | | | |
| Notes: Al: Alt; 1897-Nov 1906 = 2316m, Nov 1906-April 1908 = 2303m, April 1908-July 1949 = 2314m, July 1949-1960 = 2311m. Means of 1/2(max + min). Reliability: compared with 420990, 420830 & 422610 for the years 1897-1980, 1897-1960 & 1897-1980. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 421650: BIKANER | INDIA | 28.0N | 73.3E | 224m | 1878-1980 | 20 | 1878 | Sources: Al | | 423480: JAIPUR | INDIA | 26.9N | 75.9E | 390m | 1868-1960 | 10 | 1881 | | | | | | | | |
| Notes: Al: Means of 1/2(mean max + mean min). Alt; 1877-1892 = 234m, 1892-1937 = 232m, 1937-1977 = 224m. In 1937 the station moved about 2.4km. Comparative observations were considered unnecessary. Reliability: compared with 416400 & 423480 for the years 1878-1980 & 1881-1960. Jan 1980 10C too warm & coded as missing. Record correctd for 1937 site change. Correction Factors: Stations used: 416400, 423480 & 424510. Calculation dates; 1900-1937 & 1938-1960. Correction dates: 1878-1937. Factors: -12 -10 -12 -10 -6 1 0 0 0 -12 -19 -14. | | | | | | | | | | | | | | | | | | | | | | | | | |
| 421820: NEW DELHI | INDIA | 28.7N | 77.3E | | 1875-1980 | 10 | 1931 | Sources: Al | | Notes: Also known as Safdarjung. Al: Alt; 1875-1930 = 718ft, 1931-1940 = 714ft, 1941-1950 = 710 ft, 1951-1960 = 216m. Means of 1/2(daily max + daily min). Site changed in 1930, 1932 & 1938, no corrections were made. Reliability: compared with 422610, 420830 & 421470 for the years 1931-1980, 1931-1960 & 1931-1980. | | | | | | | | | | | | | | | |
| Notes: Also known as Sanganer. Al: Means of 1/2(daily max + daily min). Alt; 1881-1950 = 1431ft, 1951-1960 = 390m. In Aug 1933 a site change occurred, | | | | | | | | | | | | | | | | | | | | | | | | | |

temp corrections are given on p19, vol 105. From 1959 the observatory is sited at the airport, 10 miles from the previous site. Temp corrections are given on p16, vol 4. Reliability: compared with 424510, 421650 & 422610 for the years 1898-1960, 1881-1960 & 1881-1960.

423910: DARBHANGA INDIA 26.2N 85.9E 49m 1875-1980 10 1876
Sources: Al

Notes: Al: Means of 1/2(daily max + daily min). The site moved by 4 miles in 1904 & again in 1938. At the latter date comparative observations were taken. The corrections to be applied to the earlier data to reduce these to the latter exposure are given on p101, vol 4. Alt; 49m. Reliability: compared with 424750, 425870 & 425990 for the years 1876-1980, 1893-1980 & 1893-1980.

424040: DHUBRI INDIA 26.0N 90.0E 35m 1881-1980 10 1882
Sources: Al

Notes: Al: means of 1/2(mean daily max + mean daily min). Alt changed in Mar 1882 from 36 to 35m. Reliability: compared with 424100, 425150 & 423910 for the years 1902-1980, 1903-1980 & 1881-1980.

424100: GAUHATI INDIA 26.1N 91.7E 55m 1902-1980 10 1903
Sources: Al

Notes: Al: Means of 1/2(daily max + daily min). There was a change in the location of the rain gauge & in control of rainfall registration in July 1902, but no correction was applied. Alt; 1849-1930 = 196ft, 1931-1950 = 182ft, 1951-1960 = 55m. 1962-1977; 26.1N 91.6E, alt = 54m. Reliability: compared with 424040 & 425150 for the years 1902-1980 & 1903-1980.

424510: KOTA INDIA 25.2N 75.9E 1898-1979 10 1898
Sources: Al

Notes: Al: Means of 1/2(max + min). Alt; 257m. Reliability: compared with 426710, 427540 & 429330 for the years 1898-1979.

424750: ALLAHABAD/BAMHRAULI INDIA 25.5N 81.9E 98m 1861-1980 10 1876
Sources: Al

Notes: Al: Temp; means of 1/2(daily max + daily min). Thermometer shed moved in 1886, but no corrections were made. Site changed in Oct 1939. Exposure was changed, corrections given for Oct 1939-1940 on p20, vol "1941-1950". Reliability: compared with 423910, 425870 & 425990 for the years 1876-1980, 1893-1980 & 1893-1980.

424910: PATNA INDIA 25.7N 85.3E 1868-1960 71
Sources: Al

Notes: Al: Means of 1/2(max + min). Alt; 1843-1920 = 183ft, 1921-1950 = 173ft, 1951-1960 = 53m. Reliability: compared with 423910 & 424750 for the years 1941-1960.

425150: CHERRAPUNJI INDIA 25.3N 91.8E 1872-1980 12 1903
Sources: Al

Notes: Al: Means of 1/2(daily max + daily min). There was a change in the location of the rain gauge & rainfall registration in June 1902, but no corrections have been made. Alt; 1313m. Reliability: compared with 424100, 425160 & 426190 for the years 1903-1980, 1903-1960 & 1903-1974.

425160: SHILLONG INDIA 25.6N 91.9E 1867-1960 10 1903
Sources: Al

Notes: Al: Means of 1/2(daily max + daily min). Alt; 1866-1950 = 4920ft, 1951-1960 = 1500m. There was a change in the location of the rain gauge & registration in June 1902, no corrections were made. Reliability: compared with 425150 & 424100 for the years 1903-1960.

425870: DALTONGANJ INDIA 24.1N 84.1E 149m 1893-1980 10 1893
Sources: Al

Notes: Al: Means of 1/2(max + min). 1893-Sept 1923; alt = 223m, Sept 1923-1960 = 221m. Reliability: compared with 423910, 424750 & 429700 for the years 1893-1980, 1893-1980 & 1893-1973.

425990: DUMKA INDIA 24.3N 87.3E 149m 1883-1980 10 1893
Sources: Al

Notes: Al: Means of 1/2(daily max + daily min). Alt; 149m. No other details available. Reliability: compared with 423910 & 425870 for the years 1893-1980.

426190: SILCHAR INDIA 24.8N 92.8E 29m 1869-1974 22 1870
Sources: Al

Notes: Al: Means of 1/2(max + min). Alt; 1875-June 1880 = 27m, July 1880-1960 = 29m. Reliability: compared with 424100, 425160, 480620 & 425990 for the years 1902-1974, 1903-1960, 1878-1974 & 1893-1974. Corrected for a discontinuity around 1956/1957 probably due to instrument or recording time change. Correction Factors: Stations used: 425990 & 424100. Calculation dates: 1902-1956 & 1957-1974. Correction dates: 1870-1956. Factors: -12 -12 -6 -8 -9 -10 -10 -7 -7 -8 -12 -16.

426470: AHMEDABAD INDIA 23.0N 72.6E 1869-1980 20 1941
Sources: Al

Notes: Al: 1862-1950; Alt = 163ft. In Feb 1893 there was a change in rain gauge location & in control of rain registration, but no corrections applied. Temp; means of 1/2(max + min). Site changed in Oct 1950, new alt = 181ft. Temp corrections given on p20, vol "1941-1950". Reliability: compared with 427310, 429090 & 427540 for the years 1941-1978, 1941-1980 & 1941-1980. Corrected for a site change Oct 1950. Correction Factors: Stations used: 427310, 427540 & 429090. Calculation dates: 1941-1949 & 1951-1978. Correction dates: 1941-Sept 1950. Factors: -20 -20 -13 0 7 1 1 -2 -2 -15 -21 -21.

426710: SAGAR INDIA 23.9N 78.8E 551m 1870-1980 10 1875
 Sources: A1

Notes: A1: Means of 1/2(daily max + daily min). Alt; 1880-Feb 1888 = 539m, Mar 1888-May 1896 = 537m, June 1896-1960 = 551m. In Jan 1954 the station moved 0.8 km, comparative observations were taken & temp corrections are given on p110, vol 4. Reliability: compared with 424510, 427540 & 429330 for the years 1898-1979, 1878-1980 & 1875-1980.

427310: DWARKA INDIA 22.4N 69.1E 11m 1901-1978 10 1901
 Sources: A1

Notes: A1: 1901-1960; 1/2(max + min). 22 22'N 69 05'E, alt = 11m. Reliability: compared with 429090 & 430570 for the years 1901-1978.

427540: INDORE INDIA 22.7N 75.8E 567m 1877-1980 70 1896
 Sources: A1

Notes: A1: Means of 1/2(daily max + daily min). The station moved to the Aerodrome in Aug 1949, 6 miles from the former site. Comparative observations were taken & the corrections are given on p105, vol 4. The station moved again in 1952, but conditions were identical so no corrections were made. Alt; 1877-Feb 1880 = 553m, Feb 1880-Nov 1928 = 556m, Nov 1928-Aug 1949 = 550m, Aug 1949-Dec 1951 = 561m & Jan 1952-1960 = 567m. Reliability: compared with 424510, 426710 & 429330 for the years 1898-1979, 1878-1980 & 1878-1980. Two jumps occur prior to 1896 but record is uncorrectable.

428070: CALCUTTA/ALIPORE INDIA 22.5N 88.4E 6m 1816-1980 10 1876
 Sources: A1, A35

Notes: A1: Alt; 6m. Means of 1/2(daily max + daily min). There was a change in the location of the rain gauge & in control of rainfall registration in April 1877, but no correction has been applied to the older readings. The station moved in Jan 1938 & temp corrections, based on comparative observations are on p19, vol 105. A35: No details available. Reliability: compared with 424750, 425870, 423990 & 429700 for the years 1876-1980, 1893-1980, 1893-1980 & 1878-1973.

428090: CALCUTTA/DUM DUM INDIA 22.7N 88.5E 6m 1947-1960 61
 Sources: A1

Notes: A1: Means of 1/2(daily max + daily min). Alt; 6m. Reliability: uncheckable.

428670: MAGPUR/SONEGAON INDIA 21.2N 79.2E 310m 1855-1980 20 1875
 Sources: A1

Notes: A1: Means of 1/2(daily max + daily min). 1875-1940; alt = 1017ft. The station moved in July 1940 to 1022ft. Temp corrections are given on p19, vol 105. It moved again in Jan 1948, corrections are on p20, vol "1941-1950". 1951-1960; alt = 310m. Site changes occurred again in 1951, 1953 & 1954, but no corrections were considered necessary. Reliability: compared with 429330 & 431280 for the years 1875-1980 & 1893-1980.

Corrected for a jump 1903/1904. Correction Factors: Stations used: 429330. Calculation dates: 1875-1903 & 1904-1980. Correction dates: 1875-1903. Factors: -9 -11 -9 -8 -2 -3 -3 -2 -5 -9 -9 -10.

429090: VERAVAL INDIA 20.9N 70.4E 8m 1890-1980 10 1893
 Sources: A1

Notes: A1: Means of 1/2(max + min). 1890-Oct 1941; alt = 6m, Oct 1941-1960 = 8m. Reliability: compared with 427310 & 430570 for the years 1901-1978 & 1890-1980.

429330: AKOLA INDIA 20.7N 77.0E 282m 1870-1980 10 1875
 Sources: A1

Notes: A1: Means of 1/2(max + min). 1870-April 1912; alt = 282m, April 1912-1960 = 282m. Reliability: compared with 428670, 426710 & 427540 for the years 1875-1980, 1875-1980 & 1878-1980.

429700: CUTTACK INDIA 20.5N 85.9E 27m 1867-1973 10 1879
 Sources: A1

Notes: A1: means of 1/2(mean daily max + mean daily min). Alt; 27m. No other details available. Reliability: compared with 431490 & 428070 for the years 1889-1973 & 1879-1973.

430030: BOMBAY/SANTACRUZ INDIA 19.1N 72.9E 14m 1949-1960 61
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). Station moved about 1 mile Mar 1958, from 19 05'N 72 53'E, alt = 8m, to 19 07'N 72 51'E, alt = 15m. Sites had identical exposure so comparative observations & corrections were not considered necessary. Reliability: uncheckable.

430410: JAGDALPUR INDIA 19.1N 82.0E 553m 1909-1980 10 1909
 Sources: A1

Notes: A1: 1/2(max + min). 1909-July 1941; State Dispensary, 19 05'N 82 02'E, alt = 553m. Station moved to Maharsni Hospital July 1941, 0.5 miles away. Comparative observations were taken & corrections to reduce earlier data to the later exposure are given on p105, vol "1951-1960". Reliability: compared with 429330 & 431490 for the years 1909-1980.

430570: BOMBAY/COLABA INDIA 18.9N 72.9E 6m 1817-1980 10 1893
 Sources: A1, A35

Notes: A1: 1878-1960; means of 1/2(daily max + daily min). In 1931 station moved from 18 55'N 72 54'E to 18 54'N 72 49'E. From 1931 data are reduced to the old exposure by corrections given on p19, vol 105. A move may also have occurred in Feb 1928. A35: No details available. Reliability: compared with 427310 & 429090 for the years 1901-1978 & 1890-1980. Sept 1842 values are wrong & have been coded as missing.

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| 430630: | POONA | INDIA | 18.5N | 73.9E | 559m | 1826-1980 | 20 | 1876 | | | | |
| Sources: | All, A117 | | | | | | | | | | | |
| Notes: All: Means of 1/2(daily max + daily min). Alt; 1875-June 1879; 607m, July 1879-Aug 1905; 561m, Oct 1905-Oct 1930; 563m, Nov 1930-1960; 559m. The site moved about 10 miles in Sept 1905, but no corrections were made. Another move occurred in Nov 1930, of about 9 miles, comparative observations were taken & temp corrections are given on p109, vol 4. A117: Alt; 1823ft. No other details available. Reliability: compared with 430570 for the years 1876-1980. Corrected for a site change Sept/Oct 1905. | | | | | | | | | | | | |
| Correction Factors: | Stations used: 430570. Calculation dates: 1880-1904 & 1906-1980. Correction dates: 1876-Sept 1905. Factors: -6 -11 -12 -10 -5 -3 -2 -2 -4 -6 -6 -4. | | | | | | | | | | | |
| 431280: | BEGAMPET | INDIA | 17.5N | 78.5E | 545m | 1893-1980 | 20 | 1893 | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: Also known as Hyderabad. All: 1891-May 1938; Engineer's Office; Alt; 1891-Sept 1913 = 515m, Oct 1913-June 1916 = 530m, June 1916-May 1938 = 521m, June 1938-1950; Nizamiah Observatory; alt = 542m. 1951-1960; Aerodrome, alt = 545m. Comparative observations were taken when the station moved 4.8km from the Engineer's Office to the Observatory. Corrections for the change in exposure have been applied to rain only. Temp corrections, to reduce all observations to Begumpet Aerodrome, are given on p104, vol 4. Reliability: compared with 429330, 430410 & 431490 for the years 1893-1980, 1909-1980 & 1893-1980. Corrected for move to airport 1950/1951. Correction Factors: Stations used: 429330, 430410 & 431490. Calculation dates: 1909-1950 & 1951-1980. Correction dates: 1893-1950. Factors: -10 -13 -16 -14 -15 -11 -6 -8 -7 -10 -12 -9. | | | | | | | | | | | | |
| 431490: | VISHAKHAPATNAM | INDIA | 17.7N | 83.3E | 3m | 1866-1980 | 10 | 1889 | | | | |
| Sources: | All, A78 | | | | | | | | | | | |
| Notes: All: Means of 1/2(daily max + daily min). July 1899-Aug 1918; data are from Waltair, 4 miles away, no corrections made. Alt; 1888-1950 = 38ft, 1951-1960 = 3m. A78: Alt; 10m. No other details available. Reliability: compared with 430410 & 429700 for the years 1909-1980 & 1889-1973. | | | | | | | | | | | | |
| 431850: | MASULIPATAM | INDIA | 16.2N | 81.2E | | 1863-1980 | 30 | | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: Alt; 1863-1920 = 15ft, 1921-1950 = 10ft, 1951-1960 = 3m. Means of 1/2(max + min). Reliability: compared with 432790 & 431490 for the years 1941-1980. Record has several jumps & a trend of over 2.5C. | | | | | | | | | | | | |
| 431920: | GOA/PANJIM | INDIA | 15.5N | 73.8E | 57m | 1964-1980 | 61 | | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 431970: | BELGAUM | INDIA | 15.9N | 74.7E | | | | | 1856-1975 | 62 | | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: 1856-1950; alt = 2562ft, 1951-1960 = 753m. Temp; means of 1/2(max + min). In Feb 1955 the observatory was transferred to a new site 2.4km from the previous location. Comparative observations were taken. The corrections to be applied to earlier data are given on page 99 of the source. Reliability: uncheckable. | | | | | | | | | | | | |
| 432790: | MADRAS/MINAMBARKAM | INDIA | 13.1N | 80.3E | 16m | 1796-1980 | 10 | 1875 | | | | |
| Sources: | All, A35 | | | | | | | | | | | |
| Notes: All: Means of 1/2(daily max + daily min). Alt; 1875-1950 = 22ft, 1951-1960 = 16m. The station moved in April 1932, temp corrections are given on p19, vol 105. It moved again in Sept 1963, to the aerodrome. Temp corrections for after this date are given on p19, vol "1941-1950". All data prior to Sept 1943 are corrected using previous corrections, vol 105. A35: No details available. Reliability: compared with 432950 & 433630 for the years 1875-1980 & 1891-1980. April 1807 & May 1856 values are much too cold & have been coded as missing. | | | | | | | | | | | | |
| 432830: | MANGALORE | INDIA | 12.9N | 74.9E | | | | | 1853-1980 | 10 | 1941 | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: Alt; 1853-1950 = 72ft, 1951-1960 = 22m. Means of 1/2(max + min). Reliability: compared with 433110, 433510 & 433690 for the years 1941-1960, 1941-1975 & 1941-1980. | | | | | | | | | | | | |
| 432950: | BANGALORE | INDIA | 13.0N | 77.6E | 921m | 1837-1980 | 10 | 1875 | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: Site moved in Jan 1894, alt changed from 3019ft to 3021ft, but no other details are given, nor any corrections made. Temp; means of 1/2(daily max + daily min). In Dec 1960 alt changed to 921m. Site changed in July 1936, temp corrections are given on p19, vol 105. Reliability: compared with 432790 & 433630 for the years 1875-1980 & 1891-1980. | | | | | | | | | | | | |
| 433110: | AMINI | INDIA | 11.1N | 72.8E | 4m | 1892-1960 | 20 | 1892 | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: Means of 1/2(daily max + daily min). 1892-1950; alt = 13ft. 1951-1970; Government Dispensary, 11 07'N 72 44'E, alt = 4m. Reliability: compared with 432830, 433510 & 433690 for the years 1941-1960, 1892-1960 & 1931-1960. Corrected for a jump 1945/1946. Correction Factors: Stations used: 433510. Calculation dates: 1890-1945 & 1946-1960. Correction dates: 1892-1945. Factors; 17 20 23 22 19 12 12 11 16 17 20 17. | | | | | | | | | | | | |
| 433330: | PORT BLAIR | INDIA | 11.7N | 92.8E | 79m | 1868-1980 | 10 | 1876 | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: All: Means of 1/2(daily max + daily min). In Jan 1939 the station moved from 11 41'N 92 45'E, alt = 59ft, to 11 40'N 92 43'E, alt = 261ft. Rainfall data from 1939 on refer to the old site & temp corrections are | | | | | | | | | | | | |

given on p19, vol 105. There was a change in the site of the rain gauge in Jan 1939 & corrections are given on p41, vol "1941-1950". 1951-1960; 11 40'N 92 43'E, alt = 79m. Reliability: compared with 480620 & 480970 for the years 1878-1980 & 1876-1980.

433390: KODAIKANAL INDIA 10.2N 77.5E 2343m 1900-1960 70 1908
Sources: A1

Notes: A1: 1/2(max + min). 1899-1931; 10 13'N 77 32'E, alt = 7688ft. 1932-1950; 10 14'N 77 28'E, alt = 7688ft. Corrections to reduce temp to old site are given on p19, vol 105. 1951-1960; Astrophysical Observatory, 10 14'N 77 28'E, alt = 2343m. Reliability: compared with 433510, 433630 & 433710 for the years 1900-1960. Pre-1908 record is too cold.

433510: FORT COCHIN INDIA 10.0N 76.3E 3m 1842-1973 10 1891
Sources: A1, A117

Notes: A1: 1875-1920; alt = 9ft. 9 58'N 76 17'E. Means of (hours not given). 1921-1960; means of 1/2(daily max + daily min). 1931-1940; site = 9 58'N 76 14'E. 1951-1960; alt = 3m. A117: Alt; 20ft. No other details available. Reliability: compared with 433630 for the years 1891-1973.

433630: PAMBAN INDIA 9.3N 79.3E 11m 1891-1980 10 1892
Sources: A1

Notes: A1: Means of 1/2(max + min). Alt; 11m. Reliability: compared with 433710, 434660 & 434730 for the years 1891-1980, 1891-1980 & 1891-1960. Values in 1956 & 1957 are rather cold but have not been changed.

433690: MINICOY INDIA 8.3N 72.8E 1891-1980 20 1931
Sources: A1

Notes: A1: 1891-1950; alt = 9ft. 1931-1950; 1/2(daily max + daily min). Site changed in Jan 1941, corrections to reduce temp to old site are given on p41, vol "1941-1950". 1951-1960; 81 08'N 73 00'E, alt = 2m. 1961-1970; alt = 1m. Reliability: compared with 433510, 433110, 432830 & 433710 for the years 1931-1973, 1931-1960, 1941-1980 & 1931-1980. Corrected for a jump 1950/1951. Correction Factors: Stations used: 433510 & 433710. Calculation dates: 1931-1950 & 1951-1973. Correction dates: 1931-1950. Factors: -9 -8 -6 -8 -3 -2 -3 -2 -4 -4 -8 -6.

433710: TRIVANDRUM INDIA 8.5N 77.0E 64m 1837-1980 20 1837
Sources: A1, A35, A117

Notes: A1: Means of 1/2(daily max + daily min). Alt; 1853-Aug 1931 = 60m, Sept 1931-1960 = 64m. A35: No details available. A117: Alt; 130ft. No other details available. Reliability: compared with 434660, 433510 & 433630 for the years 1853-1980, 1875-1973 & 1891-1980. 1890/1891 values too cold & have been coded as missing. Corrected for a site move Sept 1931. Correction Factors: Stations used: 434660, 433510 & 433630. Calculation dates: 1910-1930 & 1932-1973. Correction dates: 1837-Aug 1931. Factors: 9 8 6 5 4 3 5 7 6 10 11.

434130: MANNAR SRI LANKA 9.0N 79.9E 3m 1951-1980 12 1966
Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 8 59'N 79 55'E, alt = 4m. Reliability: compared with 434180 & 434660 for the years 1951-1980. Record shows probable site move after 1960 but is too short to correct.

434180: IRINCOMALEE SRI LANKA 8.6N 81.2E 7m 1865-1980 70 1920
Sources: A1, A7

Notes: A1: Means of 1/2(daily max + daily min). Alt; 1869-1940 = 99ft, 1941-1950 = 24ft, 1951-1960 = 7m. In 1928 thermometer screens replaced the open sheds, data for 1921-1927 are corrected to screen levels by 1.9 to 0.7F. A7: Temp; means of 1/2(max + min). Observations were also taken at same time as Press; 1/2(09 + 15), corrected for index error & reduced to 32F, but not to mean sea level. No corrections for gravity have been made. Alt; 8m. Reliability: compared with 434660 & 434730 for the years 1865-1980 & 1866-1960.

434660: COLOMBO SRI LANKA 6.9N 79.9E 6m 1853-1980 20 1853
Sources: A1, A7

Notes: A1: Means of 1/2(daily max + daily min). Prior to 1910 the station was 3 miles from the present site, no details of any corrections are given. Temps from 1921-1927 have been corrected to equivalent screen values, by means of tables compiled from direct simultaneous comparisons between shed & screen readings. In 1928, large Stevenson screens replaced original open sheds giving systematically lower values. Alt; 6m. A7: Temp; 1/2(max + min). Press; 1/2(0930 + 1530), corrected for index error & reduced to 32F, but not to mean sea level. No correction for gravity. 0930 & 1530 temp also available. Reliability: compared with 434730 & 433710 for the years 1866-1960 & 1853-1980. Corrected for site change 1909/1910. Correction Factors: Stations used: 434730 & 433710. Calculation dates: 1895-1909 & 1910-1930. Correction dates: 1853-1909. Factors: -8 -9 -9 -6 -7 -5 -6 -8 -7 -5 -9 -6.

434730: NUWARA ELIYA SRI LANKA 7.0N 80.8E 1880m 1866-1960 20 1866
Sources: A1, A7

Notes: A1: Means of 1/2(daily max + daily min). Alt; 1869-1920 = 6188ft, 1921-1950 = 6170ft, 1951-1960 = 1895m. Temp values, 1921-1928, have been corrected to equivalent screen values, by means of tables based on comparisons between shed & screen readings (the latter give lower readings than the former sheds). A7: Temp; 1/2(max + min). Observations were also taken at same time as Press; 1/2(09 + 15), corrected for index error & reduced to 32F but not to MSL. No correction for gravity is applied. Alt; 1890m. Reliability: compared with 434660, 433630, 434180 & 434970 for the years 1866-1960, 1891-1960, 1866-1960 & 1921-1960. Corrected for a possible station move Aug 1952. Correction Factors: Stations used: 434660, 434180 & 434970. Calculation dates: 1921-1951 & 1953-1960. Correction dates: 1866-July 1952. Factors: 4 9 2 3 2 2 6 2 4 5 3 3.

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| 434970: HAMBANTOTA | SRI LANKA | 6.1N | 81.1E | 20m | 1921-1980 | 10 | 1921 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 6 07'N 81 08'E, alt = 19m. Reliability: compared with 434660 & 434180 for the years 1921-1980. | | | | | | | | | | | | | |
| 435440: LEH KASHMIR | INDIA | 34.2N | 77.7E | 3514m | 1876-1968 | 10 | 1882 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: Alt; 1875-1950 = 11,529ft, 1951-1960 = 3514m. Means of 1/2(daily max + daily min). The site changed in Jan 1951, no corrections were made. Reliability: compared with 428270 & 420990 for the years 1893-1968 & 1882-1968. | | | | | | | | | | | | | |
| 442920: URGA | USSR | 47.9N | 106.9E | 1325m | 1869-1909 | 60 | | | | | | | |
| Sources: A48 | | | | | | | | | | | | | |
| Notes: A48: Alt; 1325m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 444540: KATHMANDU | NEPAL | 27.7N | 85.2E | 1324m | 1951-1977 | 62 | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 1951-1957: 27 42'N 85 21'E, alt = 1337m. 1958-1960; 27 42'N 85 20'E, alt = 1324m. Comparative observations not taken as station only moved a few hundred yards. Reliability: uncheckable. | | | | | | | | | | | | | |
| 450050: HONG KONG/ROYAL OBS. HONG KONG | | 22.3N | 114.2E | 33m | 1853-1980 | 20 | 1853 | | | | | | |
| Sources: A1, A3, A7, A93 | | | | | | | | | | | | | |
| Notes: A1: 1884-1920; means of (hours not given). Alt; 33m. 1921-1960; means of 24 hours. A3: Alt; 32m. No other details available. A7: Means of 1/2(max + min). Press; 1853-1862, 1/2(0930 + 1530), 1865-1882, 1/2(09 + 15). Corrected for index error & reduced to 32F, but not to mean sea level. No correction for gravity is made. Temp is also read at same time as press. A93: No details available. Reliability: compared with 450110, 593160, 593457 & 594310 for the years 1931-1980, 1924-1980, 1897-1944 & 1922-1980. Corrected for discontinuity 1961/1962; one months missing data is only evidence of a site change. Correction Factors: Stations used: 450110, 593160, 593457 & 594310 for the years 1931-1980, 1924-1980, 1897-1944 & 1922-1980. Calculation dates: 1949-1961 & 1962-1980. Correction dates: 1853-1961. Factors: 8 8 7 5 7 5 5 7 7 7 10 5. | | | | | | | | | | | | | |
| 450110: MACAO | MACAO | 22.2N | 113.6E | 59m | 1910-1980 | 12 | 1931 | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 22 12'N 113 33'E, alt = 66m. Reliability: compared with 450050, 593160, 593457 & 594310 for the years 1931-1980, 1931-1980, 1931-1944 & 1931-1980. 1941-1948 too cold, by about 1C, has been coded as missing. | | | | | | | | | | | | | |
| 464710: TAINAN | | | | | | | | | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | | |
| Notes: A1: Alt; 14m. 1945-1947; 1/3(06 + 14 + 22) 120E meridian time. 1948-1950; Means of 24 hours. 1951-1960; 1/3(06 + 14 + 21). A4: Alt; 13m. 1897-1940; 1/6(02 + 06 + 10 + 14 + 18 + 22)JST. 1941-1952; 1/3 (06 + 14 + 22)JST. Reliability: compared with 466920 & 467490 for the years 1897-1960. | | | | | | | | | | | | | |
| 466920: TAIPEI | | | | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: Also known as Taihoku. A1: 1897-1920; means of (hours not given). 1921-1945; means of 24 hourly observations, 120E meridian time. 1946-1950; 1/3(06 + 14 + 22). 1951-1960; 1/3(06 + 14 + 21) 120E meridian time. Alt; 9m. Reliability: compared with 464710, 467490 & 479180 for the years 1897-1960, 1897-1960 & 1897-1972. | | | | | | | | | | | | | |
| 466990: HWALIEN | | | | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; means of observations taken at 06, 14 & 21h 120E meridian time. 23 58'N 121 37'E, alt = 19m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 467330: AMOT | | | | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; 24 26'N 118 04'E, alt = 5m. No other details available. Reliability: compared with 464710 & 466920 for the years 1915-1942. | | | | | | | | | | | | | 95 |
| 467350: PEMGHU | | | | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; means of observations taken at 06, 14 & 21h 120E meridian time. 23 32'N 119 33'E, alt = 11m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 467490: TAICHUNG | | | | | | | | | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | | |
| Notes: A1: Alt; 85m. Means of 1/3(06 + 14 + 21) 120E meridian time. A4: Alt; 77m. 1897-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22)JST. 1940-1952; 1/3(06 + 14 + 22)JST. Reliability: compared with 464710 & 466920 for the years 1897-1960. | | | | | | | | | | | | | |
| 467590: HENGCHUN | | | | | | | | | | | | | |
| Sources: A1 | | | | | | | | | | | | | |
| Notes: A1: 1951-1960; means of observations taken at 06, 14 & 21h 120E meridian time. 22 00'N 120 45'E, alt = 24m. Reliability: uncheckable. | | | | | | | | | | | | | |

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| 470580: PYONGYANG Sources: A1 | KOREA | 39.0N 125.8E | 29m 1907-1944 10 1907 | 471590: PUSAN Sources: A1 | KOREA | 35.1N 129.0E | 71m 1966-1980 62 | |
| Notes: A1: 1907-1915; 1/3(06 + 14 + 22), 1916-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22). 1940-1944; 1/3(06 + 14 + 22) 135E meridian time. 39 01'N 125 49'E. 1907-May 1911; alt = 30m, June 1911-1925; 48m, 1926-1942; 57m, 1943-1944; 29m. Reliability: compared with 471120 for the years 1907-1944. | | | | Notes: A1: 1/3(06 + 14 + 22) GMT. No other details available. Reliability: uncheckable. | | | | |
| 471050: KANGNUNG Sources: A1 | KOREA | 37.8N 128.9E | 27m 1951-1980 10 1952 | 471650: MOKPO Sources: A1 | KOREA | 34.8N 126.4E | 56m 1905-1980 10 1905 | |
| Notes: A1: 1951-1960; 1/3(06 + 14 + 22) GMT. 37 45'N 128 54'E, alt = 27m. Reliability: compared with 471100 & 471120 for the years 1954-1980 & 1951-1980. Feb 1974 value changed to -03. | | | | Notes: A1: 1904-April 1906; alt = 8m. May-Aug 1906; 14m. Sept 1906-1928; 28m. 1929-1950; 34 47'N 126 23'E, alt = 33m. 1904-Mar 1908; 1/6(02 + 06 + ...22). April 1908-1915; 1/3(06 + 14 + 22). 1916-1939; 1/6(02 + 06 + ...22). 1940-1950; 1/3(06 + 14 + 22) 135E meridian time. 1951-1960; alt = 31m. Reliability: compared with 478000 for the years 1905-1980. | | | | |
| 471100: SEOUL CITY/AP Sources: A1 | KOREA | 37.6N 126.8E | 18m 1954-1980 10 1954 | 474010: WAKKANAI Sources: A1 | JAPAN | 45.4N 141.7E | 3m 1951-1980 10 1951 | |
| Notes: A1: 1/3(06 + 14 + 22) GMT. No other details available. Reliability: compared with 471050 & 471120 for the years 1954-1980. | | | | Notes: A1: 1951-1960; 45 25'N 141 41'E, alt = 3m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 474070 for the years 1951-1980. Feb 1980 replaced with -71. | | | | |
| 471120: INCHON Sources: A1, A93 | KOREA | 37.5N 126.6E | 70m 1887-1980 10 1905 | 474040: HABORO Sources: A1 | JAPAN | 44.4N 141.7E | 1951-1960 61 | 96 |
| Notes: A1: Also known as Chemulpo. 1905-1940; alt = 68m. 1921-1940; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1941-1950; 1/3(06 + 14 + 22) 135E meridian time. Alt; 70m. 1951-1960; 1/3(06 + 14 + 22) GMT. Alt; 70m. A93: Alt; 1887-1899 = 14m, 1900-1923 = 2m. No other details available. Reliability: compared with 470580 & 471650 for the years 1907-1944 & 1905-1980. Feb 1974 value has been changed to -22 & Jan 1972 to 03. | | | | Notes: A1: 1951-1960; 44 22'N 141 42'E, alt = 9m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: uncheckable. | | | | |
| 471150: ULLUNGDO Sources: A1 | KOREA | 37.5N 130.9E | 223m 1941-1960 11 1941 | 474070: ABASHIKAWA Sources: A1, A4 | JAPAN | 43.8N 142.4E | 116m 1889-1980 80 | |
| Notes: A1: 1941-1950; 37 29'N 130 54'E, alt = 229m. 1/3(06 + 14 + 22) 135E meridian time. 1951-1960; 1/3(06 + 14 + 22) GMT. Alt = 223m. Reliability: compared with 471430 for the years 1941-1960. | | | | Notes: A1: 1951-1960; alt = 113m. 1951-1952; means of 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: 1888-1940; means of 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1940-1952; 1/3(06 + 14 + 22) JST. Alt = 111m. Reliability: compared with 474090, 474120 & 474200 for the years 1890-1980, 1889-1980 & 1889-1980. Warming trend of about 1C over the whole record length, possibly urban warming. Could also be due to several height & observing time changes. | | | | |
| 471430: TAEGU ARTCC (RKST) Sources: A1 | KOREA | 35.9N 128.6E | 61m 1907-1960 70 1916 | 474090: ABASHIRI Sources: A1, A4 | JAPAN | 44.0N 144.3E | 39m 1890-1980 10 1890 | |
| Notes: A1: 1907-1915; 1/3(06 + 14 + 22). 1916-1939; 1/6(02 + 06 + ...22). 1940-1944; 1/3(06 + 14 + 22) 135E meridian time. 1907-Sept 1914; alt = 39m. Oct 1914-1915; 42m. 1916-1928; 52m. 1929-1936; 53m. 1937-1950; 35 53'N 128 37'E, alt = 61m. 1951-1960; 1/3(06 + 14 + 22) GMT. Reliability: compared with 471650 & 478000 for the years 1907-1960. A possible jump occurs 1915/1916 but is uncorrectable. | | | | Notes: A1: Temp; 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Alt; 1951-July 1953 = 39m, Aug 1953-Dec 1953 = 38m, Jan 1954-Dec 1960 = 39m. A4: Temp; 1890-Dec 1939; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST, Jan 1940-1952; 1/3(06 + 14 + 22) JST. Alt; 38m. Reliability: compared with 474070 & 474200 for the years 1890-1980. | | | | |

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| 474120: SAPPORO Sources: A1 | JAPAN | 43.1N 141.4E | 18m 1889-1980 20 1889 | 140 42'E, alt = 4m. A4: Alt; 3m. 1886-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1939-1951; 1/3(06 + 14 + 22) JST. Reliability: compared with 475820 & 475850 for the years 1886-1960. Corrected for a discontinuity 1927/1928. Correction Factors: Stations used: 475820 & 475850. Calculation dates: 1886-1927 & 1928-1960. Correction dates: 1886-1927. Factors: -5 -5 -4 -2 -1 -4 -6 -5 -6 -4 -1. |
| Notes: A1: 1889-July 1890; means of 24 hours. Aug 1890-June 1939; 1/6(02 + 06 + 10 + 14 + 18 + 22). July 1939-1950; means of 24 hours, 135E meridian time. Sites; 1889-July 1890; 43 04'N 141 23'E, alt = 18m. Aug 1890-June 1939; 43 04'N 141 22'E, alt = 17m. July 1939-1960; 43 03'N 141 20'E, alt = 18m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Reliability: compared with 474070, 474090 & 474200 for the years 1889-1980, 1890-1980 & 1889-1980. Corrected for a site change around June 1939. Correction Factors: Stations used: 474090, 474200 & 475820. Calculation dates: 1900-1938 & 1940-1970. Correction dates: 1889-June 1939. Factors: 6 7 5 5 6 7 8 6 4 4 4 6. | | | | |
| 474200: NEMURO Sources: A1, A4 | JAPAN | 43.3N 145.6E | 26m 1880-1980 10 1880 | 475820: AKITA Sources: A1 |
| Notes: A1: 1884-1922; means of 24 hours. Alt = 27m. 1923-1949; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1950-1952; 1/3(06 + 14 + 22) 135E meridian time. 1951-1960; Alt = 26m. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 26m. No other details available. Reliability: compared with 474090 for the years 1890-1980. | JAPAN | 39.7N 140.1E | 10m 1886-1980 10 1886 | Notes: A1: 1886-Nov 1896; 39 42'N 140 07'E, Dec 1896-Oct 1926; 39 41'N 140 06'E. 1886-May 1939; 1/6(02 + 06 + 10 + 14 + 18 + 22). June 1939-1952; 1/3(06 + 14 + 22), 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). All observations taken at 135E meridian time. Reliability: compared with 475850 & 475920 for the years 1886-1980 & 1888-1960. |
| 474260: URAKAWA Sources: A1 | JAPAN | 42.2N 142.8E | 34m 1951-1980 10 1951 | 475850: MIYAKO Sources: A1 |
| Notes: A1: 1951-Nov 1954; 42 10'N 142 47'E, alt = 35m. Dec 1954-1960; alt = 34m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 474120 for the years 1951-1980. | JAPAN | 39.6N 142.0E | 47m 1883-1980 10 1886 | Notes: A1: 1884-1920; means of (hours not given). Alt; 30m. 1921-1938; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1939-1952; 1/3(06 + 14 + 22) 135E meridian time. Alt; 47m. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Reliability: compared with 475820 & 475920 for the years 1886-1980 & 1888-1960. |
| 474300: HAKODATE Sources: A1, A4 | JAPAN | 41.8N 140.8E | 36m 1875-1960 20 1875 | 475900: SENDAI Sources: A1 |
| Notes: A1: Alt; 36m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 33m. 1875-May 1878; 1/3(09 + 15 + 21) local time. June 1878-1882; 1/3(07 + 14 + 21) local time. 1883-1885; 1/3(06 + 14 + 21) Kyoto Time. 1886-1887; 1/6(02 + 06 + 10 + 14 + 18 + 22) Kyoto Time. 1888; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1889-1934; 1/24(01 + 02 + 24) JST. 1935-1937; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1938-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 475820 & 475850 for the years 1886-1960 & 1883-1960. Corrected for a jump 1940/1941. Correction Factors: Stations used: 475820, 475850 & 474090. Calculation dates: 1890-1940 & 1941-1960. Correction dates: 1875-1940. Factors: -17 -18 -12 -5 0 2 2 -3 -8 -9 -10 -13. | JAPAN | 38.3N 140.9E | 40m 1951-1980 10 1951 | Notes: A1: 1951-1960; 38 16'N 140 54'E, alt = 40m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 475820 & 475850 for the years 1951-1980. |
| 475750: AOMORI Sources: A1, A4 | JAPAN | 40.9N 140.7E | 3m 1886-1960 20 1886 | 475920: ISHINOMAKI Sources: A1, A4 |
| Notes: A1: 1951-1952; means of 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Between June 1939 & 1955 the station moved from 40 49'N 140 47'E, alt 5m, to 40 51'N | JAPAN | 38.4N 141.3E | 45m 1888-1960 10 1888 | Notes: A1: Alt; 45m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 43m. 1888-1936; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1937-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 475820 & 475850 for the years 1888-1960. |
| 476000: WAJIMA Sources: A1 | JAPAN | 37.4N 136.9E | 6m 1930-1980 70 | Notes: A1: 1930-1939; means of 24 hours. 1940-1950; 1/3(06 + 14 + 22) 135E meridian time. 37 23'N 136 54'E, alt = 7m. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 476180 & 476050 for the years 1930-1980 & 1951-1980. A change in observation time causes a jump of about 0.25C 1939/1940. |

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| 476040: NIIGATA | JAPAN | 37.9N | 139.1E | 7m | 1886-1980 | 20 | 1886 | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | |
| Notes: | Alt; Alt; 4m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: 1886-1887; 1/6(02 + 06 + 10 + 14 + 18 + 22) Kyoto Time. 1888-1914; as above, but time is JST. 1915-1924; 1/24(01 + 02 + ... 24) JST. 1925-1940; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1941-1952; 1/3(06 + 14 + 22) JST. Alt; 2m. Reliability: compared with 475820, 475920, 476180 & 476240 for the years 1886-1980, 1888-1960, 1898-1980 & 1897-1980. Correction Factors: Stations used: 475820, 475920, 476180 & 476240. Calculation dates: 1900-1938 & 1939-1940. Correction Dates: 1886-1938. Factors: -5 -4 -3 -1 0 1 -1 -4 -3 -3 -1 -1. | | | | | | | | | | | |
| 476050: KANAZAWA | JAPAN | 36.6N | 136.7E | 28m | 1886-1980 | 10 | 1951 | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | |
| Notes: | Alt; Alt; 29m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 27m. No other details available. Reliability: compared with 476180 & 476000 for the years 1951-1980. | | | | | | | | | | | |
| 476180: MATSUMOTO | JAPAN | 36.2N | 138.0E | 61m | 1898-1980 | 10 | 1898 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: | Alt: 1898-1934; 36 14'N 137 59'E, alt = 5621m. 1898-1938; 1/6(02 + 06 + 10 + 14 + 18 + 22). 1935-1960; alt = 611m. 1939-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Reliability: compared with 476240 for the years 1898-1980. | | | | | | | | | | | |
| 476240: MAEBASHI | JAPAN | 36.4N | 139.1E | 113m | 1897-1980 | 10 | 1897 | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | |
| Notes: | Alt; Alt; 113m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 112m. 1899-1911; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1921-1925; 1/24(01 + 02 + ... 24) JST. 1926-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1940-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 476180 & 476480 for the years 1898-1980 & 1897-1980. | | | | | | | | | | | |
| 476360: NAGOYA | JAPAN | 35.2N | 137.0E | 56m | 1891-1980 | 20 | 1891 | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | |
| Notes: | Alt; 56m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 52m. No other details available. Reliability: compared with 476540 & 477590 for the years 1891-1960. Corrected for a site change 1922/1933. Correction Factors: Stations used: 476540 & 477590. Calculation dates: 1891-1922 & 1923-1960. Correction dates: 1891-1922. Factors: -6 -6 -5 -4 -5 -4 -6 -4 -6 -6 -6 -7. | | | | | | | | | | | |
| 476480: CHOSHIMA | JAPAN | 35.7N | 140.8E | 28m | 1887-1980 | 10 | 1897 | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | |
| Notes: | Alt; Alt; 28m. 1951-1952; 1/3(06 + 14 + 22), 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21), 135E meridian time. A4: Alt; 27m. 1887; 1/6(02 + 06 + 10 + 14 + 18 + 22), Kyoto Time. 1888-Dec 1911; Means as above, but time is JST. 1912-Dec 1930; 1/24(01 + 02 + ... 24), JST. Jan 1931-1952; 1/3(06 + 14 + 22), JST. Reliability: compared with 476240 for the years 1897-1980. | | | | | | | | | | | |
| 476540: HAMAMATSU | JAPAN | 34.7N | 137.7E | 32m | 1882-1960 | 10 | 1891 | | | | | |
| Sources: A1, A4 | | | | | | | | | | | | |
| Notes: | Alt; Alt; 33m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 32m. 1882-June 1884; 1/3(06 + 14 + 22) local time. July 1884-1885; 1/3(06 + 14 + 21) local time. 1886-1930; 1/6(02 + 06 + 10 + 14 + 18 + 21) JST. 1931-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 476360 & 477780 for the years 1891-1960 & 1913-1960. 1950 values wrong & have been coded as missing. | | | | | | | | | | | |
| 476550: OMAEZAKI | JAPAN | 34.6N | 138.2E | 47m | 1951-1980 | 10 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: | Alt: 1951-1960; 34 36'N 138 13'E, alt = 47m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ... 21) 135E meridian time. Reliability: compared with 476780 & 477780 for the years 1951-1980. | | | | | | | | | | | 98 |
| 476620: TOKYO | JAPAN | 35.8N | 139.8E | 36m | 1876-1980 | 20 | 1887 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: | Alt: 1876; 1/4(0930 + 2130 + max + min). Alt = 21m. 1877-1885; 1/8((03 + 06 + 09 + 12 + 15 + 18 + 21 + 24)). 1886-1949; means of 24 hourly observations, 135E meridian time. Alt = 6m. 1950-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Reliability: compared with 476240 & 476480 for the years 1897-1980 & 1887-1980. Corrected for discontinuities 1925/1926 & 1965/1966, probably associated with site changes. Correction Factors: Stations used: 476240 & 476480. Calculation dates: 1897-1925 & 1966-1980, 1926-1965 & 1966-1980. Correction dates: 1887-1925, 1926-1965. Factors: i) 17 12 13 9 9 6 7 10 8 11 15 17. ii) 10 8 7 4 3 2 1 2 6 11 13. | | | | | | | | | | | |
| 476700: YOKOHAMA | JAPAN | 35.4N | 139.3E | 2m | 1863-1869 | 60 | | | | | | |
| Sources: A31 | | | | | | | | | | | | |
| Notes: | A31: 1/2(max + min). 35 26'N 139 39'E. Alt varied from 2-10'. No other details available. Reliability: uncheckable. | | | | | | | | | | | |
| 476780: HACHIJOGIMA | JAPAN | 33.1N | 139.8E | 81m | 1951-1980 | 10 | 1951 | | | | | |
| Sources: A1 | | | | | | | | | | | | |
| Notes: | Alt: 1951-1960; 33 06'N 139 47'E, alt = 81m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ... 21) 135E meridian time. | | | | | | | | | | | |

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| Reliability: compared with 476550 & 477780 for the years 1951-1980. | | | | | | | | | | | | |
| 477410: | MATSUE | JAPAN | 35.5N | 133.1E | 1951-1960 | 61 | | | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: | A1: 1951-1960; 35 27'N 133 04'E, alt = 19m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: uncheckable. | | | | | | + 14 + 22) JST. 1944-1949; 1/24(01 + 02 + ... 24) JST. 1950-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 477550, 478150 & 478930 for the years 1893-1960, 1887-1980 & 1886-1980. Corrected for discontinuity 1934/1935. Correction Factors: Stations used: 477550, 478150 & 478930. Calculation dates: 1893-1934 & 1935-1960. Correction dates: 1879-1934. Factors: 1 -2 -2 -5 -5 -6 -4 -4 -6 -3 -1 0. | | | | | |
| 477440: | YONAGO | JAPAN | 35.4N | 133.4E | 8m | 1940-1980 | 10 | 1940 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: | A1: 1940-1949; means of 24 hours. 1950; 1/3(06 + 14 + 22) 135E meridian time. 35 26'N 133 21'E, alt = 8m. 1951-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 477650 for the years 1940-1980. | | | | | | Notes: A1: 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Alt; 50m. A4: Alt; 7m. No other details available. Reliability: compared with 477780, 477590 & 476360 for the years 1913-1980, 1883-1960 & 1891-1980. | | | | | |
| 477550: | HAMADA | JAPAN | 34.9N | 132.1E | 20m | 1893-1960 | 10 | 1893 | | | | |
| Sources: | A1, A4 | | | | | | | | | | | |
| Notes: | A1: Alt; 20m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 18m. 1893-1938; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1939-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 477650 for the years 1893-1960. | | | | | | Notes: A1: 1951-1960; 33 27'N 135 46'E, alt = 75m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 476360, 477590 & 477720 for the years 1913-1980, 1913-1960 & 1913-1980. Correction Factors: Stations used: 476360 & 477720. Calculation dates: 1923-1960 & 1961-1980. Correction dates: 1913-1960. Factors: -7 -5 -5 -7 -6 -4 -3 -2 -3 -3 -6 -8. | | | | | |
| 477590: | KYOTO | JAPAN | 35.0N | 135.7E | 43m | 1881-1960 | 10 | 1890 | | | | |
| Sources: | A1 | | | | | | | | | | | |
| Notes: | A1: Alt; 43m. 1881-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22). 1940-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Reliability: compared with 477780, 477720 & 476360 for the years 1913-1960, 1883-1960 & 1891-1960. 1950 values are wrong, & 1951 & 1952 values suspect, so have all been coded as missing. | | | | | | Notes: A1: Alt; 22m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 21m. 1886-1887; 1/6(02 + 06 + 10 + 14 + 18 + 22) Kyoto Time. 1888-1938; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1939-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 471650 & 477620 for the years 1905-1980 & 1887-1960. | | | | | |
| 477620: | SHIMONOSEKI | JAPAN | 34.0N | 130.9E | 48m | 1886-1960 | 10 | 1887 | | | | |
| Sources: | A1, A4 | | | | | | | | | | | |
| Notes: | A1: Alt; 48m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: 1886; 1/6(02 + 06 + 10 + 14 + 18 + 22) Kyoto Time. 1887-1907; as above, but time is JST. 1908-1939; 1/24(01 + 02 + ... 24) JST. 1940-1952; 1/3(06 + 14 + 22) JST. Alt; 46m. Reliability: compared with 478070 & 478000 for the years 1890-1960 & 1887-1960. | | | | | | Notes: A1: 1890-April 1896; 1/6(02 + 06 + 10 + 14 + 18 + 22). May 1896-Dec 1949; means of 24 hourly observations. 1950-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Site; 1890-Jan 1909 & 1939-1960; 33 35'N 130 23'E, alt = 4m, Feb 1909-1938; 33 35'N 130 25'E, alt = 6m. Reliability: compared with 478000 for the years 1890-1980. Corrected for a discontinuity 1960/1961. Correction Factors: Stations used: 478000. Calculation dates: 1890-1960 & 1961-1980. Correction dates: 1890-1960. Factors: 6 8 7 11 10 7 7 8 9 11 11 8. | | | | | |
| 477650: | HIROSHIMA | JAPAN | 34.4N | 132.4E | 30m | 1879-1980 | 20 | 1879 | | | | |
| Sources: | A1, A4 | | | | | | | | | | | |
| Notes: | A1: Alt; 30m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 29m. 1879-1883; 1/4(0930 + 2130 + max + min) local time. 1884-1885; 1/3(06 + 14 + 22) Kyoto Time. 1886-June 1888; 1/6(02 + 06 + 10 + 14 + 18 + 22) Kyoto Time. July 1888-1938; 1/24(01 + 02 + ... 24) JST. 1939-1943; 1/3(06 + 14 + 22) JST. 1944-1949; 1/24(01 + 02 + ... 24) JST. 1950-1952; 1/3(06 + 14 + 22) JST. 1953-1956; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: 1887-Dec | | | | | | Notes: A1: Alt; 6m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 14 + 18 + 21) 135E meridian time. A4: 1887-Dec | | | | | |

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| 1938; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1939-1952; 1/3(06 + 14 + 22) JST. Alt; 5m. Reliability: compared with 478930 for the years 1887-1980. | |
| 478170: NAGASAKI JAPAN 32.7N 129.9E 27m 1845-1980 22 1845 Sources: A1, A35. | |
| Notes: A1: 1845-1920; means of (hours not given). Alt; 133m. 1921-1939; means of 24 hourly observations. 1940-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 0.1m. 1886-1938; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1939-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 478150 for the years 1887-1980. | |
| 478270: KAGOSHIMA JAPAN 31.6N 130.6E 5m 1883-1980 20 1883 Sources: A1 | |
| Notes: A1: 1883-1885; 1/3(06 + 14 + 22). 1886-1910; 1/6(02 + 06 + 10 + 14 + 18 + 22), 1911-July 1915; means of 24 hours. Aug 1915-1922; 1/6(02 + 06 + 10 + 14 + 18 + 22). 1923-1938; means of 24 hours. 1939; 1/3(06 + 14 + 22). 1940-1950; means of 24 hours, 135E meridian time. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Site; 1883-Sept 1897; 31 35'N 130 33'E, alt = 4m. Oct 1897-July 1915; 31 36'N 130 33'E, alt = 120m. Aug 1915-1960; 31 34'N 130 33'E, alt = 5m. Reliability: compared with 478170 for the years 1883-1980. Corrected for height change Sept/Oct 1897. Correction Factors: Stations used: 478170. Calculation dates: 1883-1896 & 1898-1915. Correction dates: 1883-Sept 1897. Factors: 3 2 3 4 3 3 4 5 4 3 3 6. | |
| 478300: MIYAZAKI JAPAN 31.9N 131.4E 7m 1886-1980 10 1886 Sources: A1, A4 | |
| Notes: A1: Alt; 8m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 7m. No other details available. Reliability: compared with 478170 & 478270 for the years 1886-1980. | |
| 478360: YAKUSHIMA JAPAN 30.5N 130.5E 1951-1960 61 Sources: A1 | |
| Notes: A1: 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. No other details available. Reliability: uncheckable. | |
| 478910: TAKAMATSU JAPAN 34.3N 134.1E 1951-1960 61 Sources: A1 | |
| Notes: A1: 1951-1960; 34 19'N 134 03'E, alt = 10m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: uncheckable. | |
| 478930: KOCHI JAPAN 33.6N 133.6E 2m 1886-1980 10 1887 Sources: A1, A4 | |
| Notes: A1: Alt; 2m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. A4: Alt; 0.1m. 1886-1938; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1939-1952; 1/3(06 + 14 + 22) JST. Reliability: compared with 478150 for the years 1887-1980. | |
| 478980: SHIMIZU/ASHIZURI JAPAN 32.7N 133.0E 32m 1922-1980 12 1922 Sources: A1 | |
| Notes: A1: 1922-July 1930; 32 44'N 133 01'E, alt = 65m. April 1940-1950; 32 43'N 133 01'E, alt = 32m. 1/3(06 + 14 + 22) 135E meridian time. Reliability: compared with 478150 & 478930 for the years 1922-1980. | |
| 479090: MAZE JAPAN 28.4N 129.5E 7m 1897-1980 10 1897 Sources: A1, A4 | |
| Notes: A1: Alt; 7m. 1951-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1970; 28 23'N 129 30'E, alt = 4m, 1961-1970; alt = 3m. A4: Alt; 3m. 1897-Sept 1935; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. Oct 1935-1950; 1/3(06 + 14 + 22) JST. Reliability: compared with 478270 & 479360 for the years 1897-1980. | |
| 479180: ISHIGAKIJIMA JAPAN 24.3N 124.2E 7m 1897-1980 10 1897 Sources: A1 | 100 |
| Notes: A1: 1897-June 1900; 1/6(02 + 06 + 10 + 14 + 18 + 22). July 1900-April 1910; means of 24 hours. May 1910-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22). 1940-1952; 1/3(06 + 14 + 22) 135E meridian time. 1953-1960; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21) 135E meridian time. Alt; 7m. 1961-1970; 24 20'N 124 10'E, alt = 6m. Reliability: compared with 466920 for the years 1897-1972. | |
| 479270: MIYAKOJIMA JAPAN 24.8N 125.3E 40m 1951-1980 10 1951 Sources: A1 | |
| Notes: A1: 1951-June 1953; 24 47'N 125 17'E, alt = 42m. July 1953-1956; alt = 41m. 1957-1960; alt = 40m. 1961-1970; alt = 39m. 1951-1952; 1/3(06 + 15 + 22) 135E meridian time. 1953-1970; 1/8(00 + 03 + ...21) 135E meridian time. Reliability: compared with 466920, 479180 & 479360 for the years 1951-1972, 1951-1980 & 1951-1980. March 1971 value is wrong & has been replaced with 174. | |
| 479360: NARA JAPAN 26.2N 127.7E 36m 1891-1980 12 1897 Sources: A1 | |
| Notes: A1: 1891-1920; means of (hours not given). Alt; 11m. 1921-1950; means of 24 hourly observations, 135E meridian time. 1936-1950; alt = 30m. 1951-1952; 1/3(06 + 15 + 22) 135E meridian time. 1953-1970; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. Site; Prior to 1945; 26 12'N 127 39'E, alt = 30m, Jan-Mar 1951; 26 13'N 127 40'E, Mar 1951-July 1953; 26 | |

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| | 12°N 127 41'E, alt = 31m, Aug 1953-1960; 26 14°N 127 41'E, alt = 37m, 1961-1970; alt = 35m. Reliability: compared with 466920 & 479090 for the years 1897-1972 & 1897-1980. | 481030: MOULMEIN | BURMA | 16.5N 97.6E | 1839-1960 | 61 |
| 479450: MINAMIDAITOJIMA | JAPAN | 25.8N 131.2E | 16m 1951-1980 | 10 1951 | Sources: A1 | Sources: A1, A117 |
| Notes: A1: 1951-1952; 1/3(06 + 15 + 22) 135E meridian time, 1953-1970; 1/8(00 + 03 + ...21) 135E meridian time. 25 50'N 131 14'E, alt = 16m. 1961-1970; alt = 15m. Reliability: compared with 479270 & 479360 for the years 1951-1980. | | | | | | Notes: A1: Alt; 1850-1927 = 77ft, 1953-1960 = 22m. Means of 1/2(max + min). A117: No details available. Reliability: uncheckable. |
| 479630: TORISHIMA | JAPAN | 30.5N 140.3E | 83m 1951-1965 | 61 | Sources: A1 | Sources: A1 |
| Notes: A1: 1951-1952; 1/3(06 + 14 + 21) 135E meridian time, 1953-1970; 1/8(00 + 03 + ...21) 135E meridian time. 1951-1954; 30 29'N 140 18'E, alt = 82m. 1955-1970; alt = 83m. Reliability: uncheckable. | | | | | | Notes: A1: Alt; 1850-1950 = 66ft, 1951-1960 = 37m. Means of 1/2(daily max + daily min). Reliability: compared with 484550 for the years 1931-1960. |
| 480080: MYITKYINA | BURMA | 25.4N 97.4E | 147m 1963-1980 | 61 | Sources: A1 | Sources: A1 |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | |
| 480420: MANDALAY | BURMA | 22.0N 96.1E | 1809-1980 | 72 1950 | Sources: A1 | Sources: A1, A154, A156, A157 |
| Notes: A1: Alt; 1887-1930 = 250ft, 1931-1950 = 252ft, 1951-1960 = 76m. Means of 1/2(daily max + daily min). The station moved in June 1934, temp & rain corrections are given on p19, vol 105. Reliability: compared with 426190 & 480620 for the years 1931-1974 & 1931-1980. | | | | | | Notes: A154: No details available. A156: 1/2(max + min). 18 49'N 99 0'E, alt = 308m. A157: 18 47'N 98 59'E, alt = 314m. No other details available. A1: 1951-1960: 1/2(max + min). Alt = 313m. Reliability: compared with 483780, 484000 & 480970 for the years 1937-1980, 1939-1980 & 1929-1980. |
| 480620: AKYAB | BURMA | 20.1N 93.0E | 5m 1861-1980 | 12 1878 | Sources: A1 | Sources: A1, A157 |
| Notes: A1: Temp; means of 1/2(daily max + daily min). 1878-1940; alt = 20ft, 20 07'N 92 57'E, 1948-1960; alt = 5m, 20 08'N 92 53'E. Reliability: compared with 480970 & 425990 for the years 1878-1980 & 1893-1980. Jan 1967 value is suspect & has been coded as missing. | | | | | | Notes: A1: 1951-1960; 1/2(max + min). 17 26'N 102 46'E, alt = 178m. A157: 17 26'N 102 46'E, alt = 178m. No other details available. Reliability: compared with 489400 & 489300 for the years 1941-1978 & 1951-1977. 1950 has been coded as missing. Record is suspect after 1960, being too cold. |
| 480970: RANGOON | BURMA | 16.8N 96.2E | 23m 1870-1980 | 12 1876 | Sources: A1 | Sources: A1, A157 |
| Notes: A1: Means of 1/2(daily max + daily min). Alt; 1876-1948 = 18ft, 1949-1960 = 23m. Reliability: compared with 480620 & 484550 for the years 1878-1980 & 1876-1980. | | | | | | Notes: A1: 1951-1960; 1/2(max + min). Alt = 50m. A157: 16 49'N 100 16'E, alt = 50m. No other details available. Reliability: compared with 483270 & 484000 for the years 1937-1980 & 1939-1980. |
| 484000: NAKHOM SAWAN | THAILAND | 15.8N 100.2E | 28m 1939-1980 | 12 1940 | Sources: A1, A157 | Sources: A1, A157 |
| Notes: A1: 1951-1960; 1/2(max + min). Alt = 28m. A157: No details available. Reliability: compared with 483270 & 483780 for the years 1939-1980. | | | | | | |

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| 484310: | NAKHON RATCHASIMA | THAILAND | 15.0N | 102.1E | 181m | 1937-1980 | 10 | 1938 | | | |
| Sources: | A1, A157 | | | | | | | | | | |
| Notes: A157: 1937-Mar 1939; 15 00'N 102 06'E, alt = 181m. April 1939-1950; 14 57'N 102 06'E, alt = 181m. No other details available. A1: 1951-1960; 1/2(max + min). Alt = 181m. Reliability: compared with 484550 & 484800 for the years 1937-1980 & 1938-1980. | | | | | | | | | | | |
| 484550: | BANGKOK | THAILAND | 13.7N | 100.5E | 12m | 1840-1980 | 12 | 1902 | | | |
| Sources: | A1, A35, A59, A156 | | | | | | | | | | |
| Notes: A1: 1931-1936; Observations taken at Rangsit, alt = 4m. 1937-1950; Alt = 8m. 1951-1960; alt = 12m. 1931-1950; means of 1/2(max + min). In July 1947 station was transferred from the west to east bank of the river Chao Phya. 1951-1960; means of 1/2(daily max + daily min). A35: No details available. A59: No details available. A156: Means of 1/2(max + min). No other details available. Reliability: compared with 484310 & 480970 for the years 1937-1980 & 1876-1980. | | | | | | | | | | | |
| 484620: | ARANYAPRATHET | THAILAND | 13.7N | 102.6E | 44m | 1938-1980 | 12 | 1939 | | | |
| Sources: | A1, A157 | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). Alt = 44m. A157: No details available. Reliability: compared with 484550 & 484800 for the years 1938-1980. | | | | | | | | | | | |
| 484800: | CHANTHABURI | THAILAND | 12.6N | 102.1E | 5m | 1938-1980 | 12 | 1939 | | | |
| Sources: | A1, A157 | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). Alt = 5m. A157: No details available. Reliability: compared with 484310 & 484550 for the years 1938-1980. | | | | | | | | | | | |
| 485000: | PRACHUAP KHIRIKHAN | THAILAND | 11.8N | 99.8E | 5m | 1938-1980 | 12 | 1939 | | | |
| Sources: | A1, A157 | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). Alt = 5m. A157: No details available. Reliability: compared with 484550 & 485170 for the years 1938-1980 & 1951-1980. 1961-1964 period has many suspect & many missing values so has been coded as missing. | | | | | | | | | | | |
| 485170: | CHUMPHON | THAILAND | 10.5N | 99.3E | 3m | 1951-1980 | 10 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 10 27'N 99 15'E, alt = 3m. Reliability: compared with 484550 & 485000 for the years 1951-1980. | | | | | | | | | | | |
| 485171: | BANDON | THAILAND | 9.1N | 99.3E | 3m | 1937-1950 | 60 | | | | |
| Sources: | A157 | | | | | | | | | | |
| Notes: A157: 9 07'N 99 17'E, Alt = 3m. No other details available. Reliability: uncheckable. | | | | | | | | | | | |
| 485680: | SONGKHLA | THAILAND | 7.2N | 100.6E | 10m | 1937-1980 | 12 | 1951 | | | |
| Sources: | A1, A157 | | | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). Alt = 10m. A157: 7 12'N 100 35'E, alt = 4m. No other details available. Reliability: compared with 486010 & 486150 for the years 1951-1980. | | | | | | | | | | | |
| 486010: | PENANG/BAYAN LEPAS | MALAYSIA | 5.3N | 100.3E | 4m | 1951-1980 | 12 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings. 1951-Oct 1954; 5 18'N 100 16'E, alt = 3.7m. Nov 1954-Aug 1956; alt = 3.3m. Sept 1956-1960; alt = 3.2m. Reliability: compared with 486150 & 485680 for the years 1951-1980. | | | | | | | | | | | |
| 486030: | ALOR STAR | MALAYSIA | 6.2N | 100.4E | | | | | 1961-1970 | 61 | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | | | | | | |
| 486150: | KOTA BHARU | MALAYSIA | 6.2N | 102.3E | 9m | 1951-1980 | 10 | 1951 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: Means of 24 hourly observations. 1951-1952; 6 10'N 102 17'E, alt = 3m. 1953-1955; alt = 4m. 1956-1970; alt = 5m. Reliability: compared with 486010 & 485680 for the years 1951-1980. | | | | | | | | | | | |
| 486190: | KUALA TRENGGANU | MALAYSIA | 5.3N | 103.1E | | | 1961-1970 | 61 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | | | | | | |
| 486200: | SITIawan | MALAYSIA | 4.2N | 100.7E | | | 1961-1970 | 61 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | | | | | | |
| 486250: | IPOH | MALAYSIA | 4.6N | 101.1E | | | 1891-1970 | 61 | | | |
| Sources: | A1, A60 | | | | | | | | | | |
| Notes: A1: Means of 24 hours. 1961-1970; 4 34'N 101 06'E, alt = 39m. A60: No details available. Reliability: uncheckable. | | | | | | | | | | | |
| 486310: | CAMERON HIGHLANDS | MALAYSIA | 4.5N | 101.4E | | | 1961-1970 | 61 | | | |
| Sources: | A1 | | | | | | | | | | |
| Notes: A1: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | | | | | | |

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| 486470: | KUALA LUMPUR/SUBANG | MALAYSIA | 3.1N | 101.7E | 17m | 1951-1980 | 10 | 1951 | | | | | | |
| Sources: | A1, A60 | | | | | | | | | | | | | |
| Notes: | All: Means of 24 hours. 1951-1960; alt = 34m. 1961-Aug 1965; 3 07'N 101 12'E, alt = 34m. Sept 1965-1970; 3 07'N 101 33'E, alt = 16m. A60: 3.1N 101.6E, alt = 17m. No other details available. Reliability: compared with 486650 & 486940 for the years 1951-1980. | | | | | | | | | | | | | |
| 486570: | KUANTAN | MALAYSIA | 3.8N | 103.2E | 15m | 1898-1980 | 61 | | | | | | | |
| Sources: | A1, A60 | | | | | | | | | | | | | |
| Notes: | All: Means of 24 hourly values. 1961-Sept 1968; 3 46'N 103 12'E, alt = 19m. Oct 1968-1970; 3 47'N 103 13'E, alt = 15m. A60: No details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 486650: | MALACCA(WMKW) | MALAYSIA | 2.2N | 102.2E | 11m | 1951-1980 | 12 | 1951 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | All: Means of 24 hourly observations. 1951-Oct 1954; 2 12'N 102 16'E, alt = 45m. Nov-Dec 1954; 2 16'N 102 15'E, alt = 8m. 1955-1970; 2 16'N 102 15'E, alt = 7m. Reliability: compared with 486470 & 486940 for the years 1951-1980. | | | | | | | | | | | | | |
| 486740: | MERSING | MALAYSIA | 2.5N | 103.8E | | 1961-1970 | 61 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | All: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 486940: | SINGAPORE | SINGAPORE | 1.3N | 103.9E | 18m | 1825-1980 | 10 | 1911 | | | | | | |
| Sources: | A1, A7, A35 | | | | | | | | | | | | | |
| Notes: | All: 1911-1950; means of 1/2(daily max + daily min). Alt; 1911-1950 = 3m, 1951-1960 = 18m. 1951-1970; means of 24 hourly readings, GHT. Aug 1955-Mar 1968; 1 21'N 103 54'E, alt = 8m. April 1968-1970; 1 22'N 103 55'E, alt = 32m. A7: Temp; 1/2(max + min). Observations also taken at same time as Press; 1/2(09 + 15), corrected for index error & reduced to 32F, but not to mean sea level. No correction for gravity is applied. Alt = 35m. A35: No details available. Reliability: compared with 960350 & 961630 for the years 1931-1980 & 1850-1980. Very difficult to check, early data probably no good. | | | | | | | | | | | | | |
| 488200: | HANOI | VIETNAM | 21.0N | 105.9E | 17m | 1890-1980 | 62 | | | | | | | |
| Sources: | A43, A172 | | | | | | | | | | | | | |
| Notes: | A43: Means of 1/2(max + min). Observations were also taken at the following times; 1897-1900; 0730, 1400 & 2100h, 1901; 10 & 16h, 1902; 07, 14 & 19h, 1903-1909; 10 & 16h, 1910; 08, 14 & 19h. Alt; 1890-1903 = 16m, 1904-1907 = 12m, 1909 = 14m, 1910 = 17m. Jan-Mar 1911; 21 02'N 103 30'E of Paris, alt = 10m. April 1911-1912; alt = 13m, 1913-1914; alt = 17m. A172: No details available. Reliability: uncheckable. | | | | | | | | | | | | | |
| 488550: | DA-NANG/TOURANE | VIETNAM | 16.0N | 108.2E | 7m | 1941-1974 | 10 | 1941 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | All: 1941-1960; 16 02'N 108 11'E, alt = 7m. 1/12(02 + 04 + ... 24) 105E meridian time. Reliability: compared with 488600 & 488770 for the years 1941-1973 & 1941-1974. | | | | | | | | | | | | | |
| 488600: | HOANG-SA/PATTE | VIETNAM | 16.6N | 111.6E | 6m | 1941-1973 | 12 | 1941 | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | All: 1951-1960; means of 12 daily observations. 16 33'N 111 37'E, alt = 6m. Reliability: compared with 488550 & 488770 for the years 1941-1973. | | | | | | | | | | | | | |
| 488750: | BANMEIHOT | VIETNAM | 12.7N | 108.1E | 537m | 1954-1974 | 61 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | All: 1951-1960; means of 12 daily observations. 1954-Mar 1959; station sited on a high plateau, 490m. April 1959 moved to new site, alt = 537m. Temps from two sites different. 12 42'N 108 04'E, alt = 537m. Reliability: uncheckable. | | | | | | | | | | | | | |
| 488770: | NHATRANG | VIETNAM | 12.3N | 109.2E | 10m | 1898-1977 | 12 | 1899 | | | | | | |
| Sources: | A1, A43 | | | | | | | | | | | | | 103 |
| Notes: | All: 1906-1940; 1/2(daily max + daily min). Alt = 4m. 1941-1960; means of 12 bi-hourly observations, (02 + 04 + ... 24) 105E meridian time. Alt = 7m. A43: Temp; 1/2(max + min). Observations also taken at same time as Press; 1/2(10 + 16). Alt; 1898-1907 = 9m, 1908-1910 = 7m. Reliability: compared with 489000 for the years 1898-1977. | | | | | | | | | | | | | |
| 489000: | SAIGON/TANSONNHUT | VIETNAM | 10.8N | 106.7E | 19m | 1897-1980 | 20 | 1897 | | | | | | |
| Sources: | A1, A43 | | | | | | | | | | | | | |
| Notes: | All: 1907-1930; 1/2(daily max + daily min). Alt = 11m. 1931-1960; means of 12 bi-hourly observations 1/12(02 + 04 + ... 24) 105E meridian time. Alt = 10m. This note is in vol 4, for 1906-1930, "Poor site - only mildly representative." A43: Means of 1/2(2(max + min). Observations are also available for the following times; 1897; 1/4(06 + 10 + 16 + 21), 1898-1902; 1/3(06 + 16 + 21), 1903-1905; 1/2(10 + 16), 1906-1908; 1/4(06 + 10 + 16 + 21), 1909-1910; 1/2(10 + 16). Alt; 1897-1903 = 9m, 1904-1905 = 10m, 1906-1910 = 11m. Reliability: compared with 488770 & 484550 for the years 1898-1977 & 1897-1980. Corrected for height change (4 to 7m) 1940/1941. Correction Factors: Stations used: 488770. Calculation dates: 1899-1930 & 1941-1971. Correction dates: 1897-1940. Factors: -2 -5 -9 -10 -6 -4 -2 0 -1 -4 -3 -1. | | | | | | | | | | | | | |
| 489300: | LUANG PRABANG | LAOS | 19.9N | 102.1E | 304m | 1951-1978 | 61 | | | | | | | |
| Sources: | A1 | | | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/12(02 + 04 + ... 24). 19 53'N 102 08'E, alt = 304m. Reliability: uncheckable. | | | | | | | | | | | | | |

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| 489380: SAYABOURY Sources: A1 | LAOS | 19.2N 101.7E | 1969-1978 61 | | |
| Notes: A1: 1/12(02 + 04 + ...24). No other details available. Reliability: uncheckable. | | | | | |
| 489400: VIENTIANE Sources: A1, A43 | LAOS | 18.0N 102.6E | 170m 1941-1978 62 | | |
| Notes: A43: Means of 1/2(max + min). 17 56'N 100 10'E, alt = 284m. A1: Means of 1/12(02 + 04 + 06 + ...24) 105E meridian time. Alt = 170m. Reliability: uncheckable. | | | | | |
| 489470: SAVANNAKHET Sources: A1 | LAOS | 16.6N 104.8E | 1970-1978 61 | | |
| Notes: A1: 1/12(02 + 04 + ...24). No other details available. Reliability: uncheckable. | | | | | |
| 489480: SENO Sources: A1 | LAOS | 16.7N 105.0E | 184m 1951-1978 62 | | |
| Notes: A1: 1951-1960; 1/12(02 + 04 + ...24). 16 40'N 105 00'E, alt = 184m. Reliability: uncheckable. | | | | | |
| 489550: PAKSE Sources: A1 | LAOS | 15.1N 105.8E | 1968-1978 61 | | |
| Notes: A1: 1/12(02 + 04 + ...24). No other details available. Reliability: uncheckable. | | | | | |
| 489660: SIEMREAP Sources: A1 | KAMPUCHEA | 13.4N 103.9E | 15m 1951-1970 61 | | |
| Notes: A1: 1951-1960; 1/8(18 + 21 + 24 + 03 + 06 + 09 + 12 + 15) GMT. 13 22'N 103 51'E, alt = 15m. Reliability: uncheckable. | | | | | |
| 489720: STUNG TRENG Sources: A1 | KAMPUCHEA | 13.5N 106.0E | 54m 1951-1970 62 | | |
| Notes: A1: 1951-1960; 1/8(18 + 21 + 24 + 03 + 06 + 09 + 12 + 15) GMT. 13 31'N 105 58'E, alt = 54m. Reliability: uncheckable. | | | | | |
| 489850: KAMPOT Sources: A1 | KAMPUCHEA | 10.6N 104.2E | 5m 1951-1970 61 | | |
| Notes: A1: 1951-1960; 1/8(18 + 21 + 24 + 03 + 06 + 09 + 12 + 15) GMT. 10 37'N 104 13'E, alt = 1m. Reliability: uncheckable. | | | | | |
| 489910: PHNOM-PENH Sources: A1 | KAMPUCHEA | 11.6N 104.9E | 10m 1906-1970 12 1941 | | |
| Notes: A1: 1906-1920; 11 30'N 105 00'E, alt = about 13m. 1921-1930; 11 35'N 104 56'E, alt = 10m. 1931-1946; 11 33'N 104 55'E, alt = 2m. 1947-1960; 11 33'N 104 51'E, alt = 11m. 1/12(02 + 04 + ...24) 105E meridian time. 1961-1970; 1/8(18 + 21 + 24 + 03 + 06 + 09 + 12 + 15) GMT. Alt = 10m. Reliability: compared with 489000 for the years 1941-1970. | | | | | |
| 489950: KOMPONG CHAM Sources: A1 | KAMPUCHEA | 12.0N 105.5E | 1951-1960 61 | | |
| Notes: A1: 1951-1960; 1/8(18 + 21 + 24 + 03 + 06 + 09 + 12 + 15) GMT. 12 00'N 105 27'E, alt = 16m. Reliability: uncheckable. | | | | | |
| 503530: CHINA (NO NAME) Sources: A1 | CHINA | 51.7N 126.6E | 1961-1970 60 | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 505140: MAN-CHOU-LI/LU-PIN Sources: A1 | CHINA | 49.6N 117.4E | 646m 1909-1942 60 | | |
| Notes: A1: 1909-1940; 49 35'N 117 26'E, alt = 646m. No other details available. Reliability: uncheckable. | | | | | 104 |
| 505270: HAILAR Sources: A1, A92 | CHINA | 49.0N 119.5E | 614m 1909-1981 60 | | |
| Notes: A92: Alt; 610m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been made. A1: 1909-1934; 1/3(07 + 13 + 21) 126.5E meridian time. 1935-1943; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1909-1943; alt = 614m. Reliability: uncheckable. | | | | | |
| 505277: BUTHA QI Sources: A92 | CHINA | 48.0N 122.7E | 316m 1909-1940 60 | | |
| Notes: Station was also known as Pu-t'a-ha-ch'i. A92: Alt; 316m. "Mean daily max" & "mean daily min" are given, but the "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been made. Reliability: uncheckable. | | | | | |
| 505640: SUNWU Sources: A1 | CHINA | 49.4N 127.3E | 1961-1970 60 | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |

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| 506320: BEIJING Sources: A1 | CHINA | 48.7N 121.9E | 1961-1970 60 | 510760: ALTAY Sources: A1 | CHINA | 47.7N 88.0E 735m 1954-1981 60 |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | |
| 507450: QIQIHAER Sources: A92 | CHINA | 47.3N 123.9E 146m 1909-1981 60 | 511560: BOBOKSAR Sources: A1 | CHINA | 46.7N 85.7E 1961-1970 60 | |
| Notes: A92: Alt; 149m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. Reliability: uncheckable. | | | | | | |
| 507560: HAILUN Sources: A1 | CHINA | 47.4N 126.9E 1961-1970 60 | 514310: YINING Sources: A1 | CHINA | 43.9N 81.3E 663m 1951-1981 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | |
| 507880: FUJIN Sources: A1 | CHINA | 47.2N 131.9E 1961-1970 60 | 514630: Urumqi Sources: A1 | CHINA | 43.8N 87.4E 654m 1951-1981 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | |
| 509150: DONGUJIMQINQI Sources: A1 | CHINA | 45.5N 116.9E 1961-1970 60 | 516440: KUQA Sources: A1 | CHINA | 41.7N 82.9E 1099m 1961-1978 60 | 105 |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | |
| 509330: HARBIN Sources: A1, A92, A93 | CHINA | 45.8N 126.6E 141m 1909-1942 60 | 517090: KASHI Sources: A1 | CHINA | 39.4N 75.9E 1289m 1951-1981 60 | |
| Notes: A92: Alt; 147m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been made. After 1909 the site is 45.8N 126.6E. Temp alt = 142m. Rain alt = 151m. A93: No details available. A1: 1909-1930; 1/3(07 + 13 + 21). 1931-1935; 1/3(05 + 13 + 21). 1936-1943; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1909-1943; alt = 142m. Reliability: uncheckable. | | | | | | |
| 509530: HARBIN Sources: A92, A93 | CHINA | 45.8N 126.8E 142m 1958-1981 60 | 517770: RUOQIANG Sources: A1 | CHINA | 39.0N 88.1E 888m 1953-1981 60 | |
| Notes: A92: Alt; 147m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A93: No details available. NB. Post 1900 site is 45.8N 126.6E, Temp alt = 142m, Prec alt = 151m. Reliability: uncheckable. | | | | | | |
| 509630: TONGHE Sources: A1 | CHINA | 45.9N 128.7E 1961-1970 60 | 518280: BOTAN Sources: A1 | CHINA | 37.1N 79.9E 1375m 1953-1981 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | |
| 522030: HAMI Sources: A1 | CHINA | 42.8N 93.5E 738m 1951-1981 60 | 518550: QIEMO Sources: A1 | CHINA | 38.1N 85.5E 1961-1970 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | |

524180: TUNG HUANG/TUNHWANG CHINA 40.1N 94.8E 1139m 1937-1970 60
Sources: A1

Notes: A1: 1937-1950; 40 08'N 94 47'E, alt = 1100m. No other details available.
Reliability: uncheckable.

524240: AN HSI CHINA 40.7N 96.0E 1940-1948 60
Sources: A1

Notes: A1: 1940-1948; 40 43'N 95 57'E, alt = 1182m. No other details available.
Reliability: uncheckable.

524950: BAYAN MOD CHINA 40.7N 104.5E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

525390: CHIU CHUAN CHINA 39.8N 98.6E 1543m 1934-1981 60
Sources: A1

Notes: A1: 1934-1950; 39 45'N 98 33'E, alt = 1470m. No other details available.
Reliability: uncheckable.

526810: MINQIN CHINA 38.7N 103.0E 1367m 1939-1970 60
Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available.
Reliability: uncheckable.

528180: GOLMUD CHINA 36.1N 94.6E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

528360: DULAN CHINA 36.3N 98.0E 3191m 1940-1981 60
Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available.
Reliability: uncheckable.

528660: HSI MING/SINING CHINA 36.6N 109.8E 2295m 1936-1948 60
Sources: A1

Notes: A1: 1936-1948; 36 37'N 109 49'E, alt = 2275m. No other details available.
Reliability: uncheckable.

528890: LANCHOW CHINA 36.1N 103.9E 1520m 1932-1981 60
Sources: A1

Notes: A1: 1932-1950; 36 03'N 103 51'E, alt = 1506m. No other details available.
Reliability: uncheckable.

529570: TONGDA CHINA 35.1N 100.3E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

530680: EBENHOT CHINA 43.6N 112.0E 965m 1955-1981 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

532760: SONID YOUNI CHINA 42.3N 112.8E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

533360: HALIUT CHINA 41.6N 108.7E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

534630: HORHOT CHINA 40.8N 111.6E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

536140: YINCHUAN CHINA 38.4N 106.2E 1112m 1936-1981 60
Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available.
Reliability: uncheckable.

536460: YU LIN/YULING CHINA 38.3N 109.8E 1084m 1933-1970 60
Sources: A1

Notes: A1: 1933-1950; 38 17'N 109 45'E, alt = 1121m. No other details available.
Reliability: uncheckable.

536980: SHIJLAZHUANG CHINA 38.0N 114.4E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

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| 537720: TAIYUAN Sources: A1, A92 | CHINA | 37.7N 112.5E | 778m | 1916-1981 | 60 | 542080: DUOLUN Sources: A1 | CHINA | 42.1N 116.4E | 1961-1970 | 60 | | |
| Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 538450: YANAN Sources: A1 | CHINA | 36.5N 109.5E | | 1961-1970 | 60 | 542920: YANJI Sources: A1, A92 | CHINA | 42.8N 129.4E | 177m | 1914-1981 | 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 539150: PINGLIANG Sources: A1 | CHINA | 35.0N 111.0E | | 1961-1970 | 60 | 543240: CHAOYANG Sources: A1 | CHINA | 41.5N 120.4E | 1961-1970 | 60 | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 539590: YUNCHING Sources: A1 | CHINA | 35.4N 106.6E | | 1961-1970 | 60 | 543420: SHENYANG Sources: A1, A92, A93 | CHINA | 41.7N 123.4E | 42m | 1905-1981 | 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 540270: LINDONG Sources: A1 | CHINA | 43.9N 119.3E | | 1961-1970 | 60 | Notes: Station was also known as Mukden. A92: Alt; 44m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A93: No details available. A1: Alt = 44m. 1906-1938: 1/6(04 + 06 + 10 + 14 + 18 + 22). 1938-1943; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. | | | | | 107 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 540960: SUIFENHE Sources: A1 | CHINA | 44.3N 131.1E | | 1961-1970 | 60 | 543740: LINJIANG Sources: A1 | CHINA | 41.7N 126.9E | 1961-1970 | 60 | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 541020: ABAGNAR QI Sources: A1 | CHINA | 43.9N 116.0E | | 1961-1970 | 60 | 544230: CHENGDE Sources: A1 | CHINA | 40.9N 117.8E | 375m | 1961-1979 | 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 541350: TONGLIO Sources: A1 | CHINA | 43.5N 122.2E | | 1961-1970 | 60 | 545007: CHIN-CHOU Sources: A92 | CHINA | 40.7N 122.2E | 3m | 1905-1950 | 60 | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| 541610: CHANGCHUN Sources: A1, A92 | CHINA | 43.9N 125.3E | 214m | 1909-1970 | 60 | Notes: A92: Alt; 216m. "Mean daily max" & "mean daily min" are given, but the "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been made. A1: Means of 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. Alt = 214m. Reliability: uncheckable. | | | | | * | |
| Notes: A92: Alt; 216m. "Mean daily max" & "mean daily min" are given, but the "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been made. A1: Means of 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. Alt = 214m. Reliability: uncheckable. | | | | | | | | | | | | |
| 545110: BEIJING Sources: A3, A35, A92, A93 | CHINA | 40.0N 116.5E | | 40m | 1841-1981 | 60 | Notes: A3: Alt; 43m. No other details available. A35: No details available. A92: Alt; 51m. No other details available. A93: No details available. NB. Following information available from elsewhere; 1841-1849; 1/3(07 + 13 + 21). 1850-1855; mean of 24 hourly observations. 1859-1861; 1/3(07 + 13 + 21). 1868-1869; 1/3(06 + 15 + 21). 1870-1875; 1/3(07 + 13 + 21). | | | | | |
| Notes: A3: Alt; 43m. No other details available. A35: No details available. A92: Alt; 51m. No other details available. A93: No details available. NB. Following information available from elsewhere; 1841-1849; 1/3(07 + 13 + 21). 1850-1855; mean of 24 hourly observations. 1859-1861; 1/3(07 + 13 + 21). 1868-1869; 1/3(06 + 15 + 21). 1870-1875; 1/3(07 + 13 + 21). | | | | | | | | | | | | |

1910-1914; 1/3(07 + 13 + 21). 1915-1924; means of 24 hourly observations 120E meridian time. Jan-Feb 1925; 1/2(max + min). 1925-1928; means of 24 hourly observations, 120E meridian time. July 1929; 1/3(06 + 15 + 21). 1930-1932; 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24). 1933-1935; means of 24 hourly observations, 120E meridian time. Reliability: uncheckable.

545270: TIANJIN CHINA 39.1N 117.2E 19m 1891-1979 60
Sources: A1, A92, A93

Notes: Station was also known as Tsientsin & as Tien-Ching. A92: Alt; 19m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A93: No details available. A1: 1905-1920; means of (hours not given). 39 10'N 117 10'E, alt = 5m. 1921-1930; means of 8 observations, probably 03, 06, 09 ... 24b 120E meridian time. 1931-1935; 1/3(06 + 14 + 22). Alt = 4m. 1946; 39 09'N 117 09'E. Dec 1939-Nov 1948; alt = 5m. 1928-Nov 1939; 6m. 1935-1944; 1/3(06 + 14 + 22) 120E meridian time. 1946-1948; 1/8(03 + 06 + 09 + ... 24) 120E meridian time. Reliability: uncheckable.

546620: TA LIEN/TALIEN CHINA 38.9N 121.6E 95m 1905-1970 60
Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable.

546621: LUSHUN CHINA 38.9N 121.6E 97m 1905-1950 60
Sources: A1, A92

Notes: Station was also known as Port Arthur & as Darien. A92: Alt; 97m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A1: 1906-1936; 1/3(06 + 14 + 22) 135E meridian time. 1937-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1940-1944; 1/3(06 + 14 + 22) 135E meridian time. Alt; 1906-1909 = 18m. 1910-1936 = 20m. 1937-1944 = 16m. Reliability: uncheckable.

548230: TSIMAN/CHI NAN CHINA 36.7N 117.0E 54m 1916-1970 60
Sources: A1

Notes: A1: 1916-1950; 36 40'N 117 02'E, alt = 54m. No other details available. Reliability: uncheckable.

548430: WEIFANG CHINA 36.6N 119.1E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

548570: QINGDAO CHINA 36.1N 120.3E 79m 1886-1981 60
Sources: A1, A92, A93

Notes: Station was also known as Ch'ing Tao, Tsing'Tau & as Tsingtao. A92: Alt; 79m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A93: No details available. A1: 1916-1921; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1922-April 1938; 1/6(01 + 05 + 09 + 13 + 17 + 21) 120E meridian time. May 1938-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22) 135E meridian time. 1940-1944; 1/3(06 + 14 + 22) 135E meridian time. 1946-1948; alt = 79m, 1945-1950 = 78m. Reliability: uncheckable.

549060: HEZE CHINA 35.2N 115.4E 50m 1937-1979 60
Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable.

555910: LHASA CHINA 29.7N 91.1E 3685m 1935-1981 60
Sources: A1

Notes: A1: 1941-1948; 29 40'N 91 07'E, alt = 12090ft. 1/2(max + min). 1951-1960; alt = 3685m. Reliability: uncheckable.

557730: YADON CHINA 27.7N 99.0E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

560290: YUSHU CHINA 33.0N 96.7E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

560960: WUDU CHINA 33.3N 104.6E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

561370: QAMDO CHINA 31.1N 96.9E 3241m 1951-1981 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

561460: GARZE CHINA 31.6N 99.9E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

561820: SUNG PAN/SUN PAN CHINA 32.7N 103.6E 2882m 1937-1950 60
 Sources: A1
 Notes: A1: 1937-1950; 32 39'N 103 34'E, alt = 2883m. No other details available.
 Reliability: uncheckable.

562870: YA AN/YEAN CHINA 30.0N 103.1E 637m 1937-1950 60
 Sources: A1
 Notes: A1: 1937-1950; 30 00'N 103 03'E, alt = 650m. No other details available.
 Reliability: uncheckable.

562940: CHENGTU CHINA 30.7N 104.1E 498m 1907-1981 60
 Sources: A1, A92
 Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable.

564440: DEQEN CHINA 28.6N 99.1E 1961-1970 60
 Sources: A1
 Notes: A1: No details available. Reliability: uncheckable.

564920: YIBIN CHINA 28.8N 104.5E 341m 1961-1978 60
 Sources: A1
 Notes: A1: No details available. Reliability: uncheckable.

565710: XICHANG CHINA 27.8N 102.2E 1591m 1924-1981 60
 Sources: A1, A92
 Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable.

567390: TENGCHONG CHINA 25.1N 98.4E 1648m 1911-1981 60
 Sources: A92
 Notes: A92: Alt; 1634m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. Reliability: uncheckable.

567780: KUNMING-YUNNANFU CHINA 25.0N 102.6E 1893m 1901-1981 60
 Sources: A1, A43, A92, A93
 Notes: A92: Alt; 1893m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A93: No details available. A43: Means of 1/2(max + min). 1902-1908; 25 06'N 100 32'E of Paris, alt = 1980m. 1909; alt = 1942m. 1910-1913; 26 07'N 100 34'E of Paris, alt = 1942m. A1: Means of 1/2(max + min). 1931-1940; alt = 1893m. Station moved in Dec 1946, from 24 58'N 102 37'E, alt = 2280m to 25 05'N 102 42'E, alt = 1891m. 1941-1950;

means of 24 hours 105E meridian time. Reliability: uncheckable.

569640: SIMAO CHINA 22.6N 101.3E 1961-1970 60
 Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

569850: MENGZI CHINA 23.3N 103.3E 1301m 1961-1980 60
 Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

570060: TIEN SHUI CHINA 34.6N 105.6E 1202m 1935-1950 60
 Sources: A1

Notes: A1: 1935-1950; 34 36'N 105 34'E, alt = 1174m. No other details available.
 Reliability: uncheckable.

570360: HSI AN/SIAN CHINA 34.3N 108.9E 400m 1922-1981 60
 Sources: A1, A92

Notes: A92: Alt; 365m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been made. A1: 1922-1950; alt = 395m. No other details available.
 Reliability: uncheckable.

570830: ZHENGZHOU CHINA 34.7N 113.6E 110m 1930-1981 60
 Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable.

571270: HANZHONG CHINA 33.0N 107.0E 1961-1970 60
 Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

572370: WANYUAN CHINA 32.0N 108.0E 1961-1970 60
 Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

572900: ZHUMADIAN CHINA 32.9N 114.0E 1961-1970 60
 Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

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| 574110: MANCHONG | CHINA | 30.7N 106.0E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 574470: ENSHI | CHINA | 30.2N 109.3E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 574610: YICHANG | CHINA | 30.7N 111.2E | 1882-1981 60 | | |
| Sources: A1, A92, A93 | | | | | |
| Notes: A1: Alt; 57m. No other details available. A92: Alt; 57m. No other details available. A93: Alt; 57m. No other details available. Reliability: uncheckable. | | | | | |
| 574940: HANKOW | CHINA | 30.6N 114.3E | 139m 1880-1979 60 | | |
| Sources: A1, A3, A92 | | | | | |
| Notes: Also known as Hupeh. A1: 1906-1920; means of (hours not given). Alt = 37m. 1931-1938 = 26m. 1921-1930; 1/2(daily max + daily min). 1931-1933; 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24) 120E meridian time. Jan-Feb 1934; 1/3(06 + 15 + 21) 120E meridian time. Mar 1934-April 1938; 1/3(06 + 14 + 21) 120E meridian time. No later details available. A3: Alt; 26m. No other details available. A92: Alt; 28m. No other details available. Reliability: uncheckable. | | | | | |
| 575150: CHONGMING | CHINA | 29.6N 106.6E | 230m 1891-1949 60 | | |
| Sources: A3, A92 | | | | | |
| Notes: Station was also known as Chungking. A3: Alt; 230m. No other details available. A92: Alt; 230m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. Reliability: uncheckable. | | | | | |
| 576790: CHANGSHA | CHINA | 28.1N 113.0E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 577130: ZUNYI | CHINA | 27.6N 106.8E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 577450: ZHEJIANG | CHINA | 27.4N 109.6E | 267m 1938-1981 60 | | |
| Sources: A1, A92 | | | | | |
| Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | |
| 578160: KUEI YANG/KWEIYANG | CHINA | 26.6N 106.7E | 107m 1920-1979 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: 1921-1950; 26 35'N 106 43'E, alt = 1057m. No other details available. Reliability: uncheckable. | | | | | |
| 578660: LINGLING | CHINA | 26.2N 111.5E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 579020: XINGREN | CHINA | 25.4N 105.1E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 579570: GUILIN | CHINA | 25.3N 110.2E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 579930: GANZHOU | CHINA | 25.8N 114.8E | 124m 1961-1980 60 | | 110 |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 580400: GANYU | CHINA | 34.8N 119.1E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 582210: BENGBU | CHINA | 32.9N 117.3E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |
| 582300: NANJING | CHINA | 32.1N 118.8E | 68m 1886-1979 60 | | |
| Sources: A1, A92 | | | | | |
| Notes: A92: Alt; 68m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. A1: 1921-1923; 1/2(max + min). 1924-1927; 1/2(09 + 21). 1928-1937; means of 24 hours. 1921-1937; alt = 68m. 1946-1948; Alt = 72m. Means of 24 hours 120E meridian time. 1951-1960; alt = 68m. Reliability: uncheckable. | | | | | |
| 582510: DONGTAI | CHINA | 32.8N 120.2E | 1961-1970 60 | | |
| Sources: A1 | | | | | |
| Notes: A1: No details available. Reliability: uncheckable. | | | | | |

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| 583670: SHANGHAI Sources: A1, A29, A30 | CHINA | 31.2N 121.4E | 7m 1847-1981 60 | Notes: A1: 1873-1920; Zi-Ka-Wei, 31 11'N 121 25'E, alt = 7m. After 1879; means of 24 hours. 1920-1940; alt = 12m. The station moved in 1946 from 31 11'N 121 26'E to 31 17'N 121 28'E, alt = 3m. 1941-1950; 1/3(06 + 14 + 22) 135E meridian time. 1951-1960; site is 31 12'N 121 26'E, alt = 7m. A29: Means of 1/2(max + min). Alt; 7m. A30: Means of 1/2(max + min). Alt; 7m. Reliability: uncheckable. | uncheckable. |
| 583671: SHANGHAI Sources: A92, A93 | CHINA | 31.2N 121.4E | 5m 1886-1970 60 | Notes: Also known as Shweishan & as Cha-Wei-Chan. A92: Alt; 5m. No other details available. A93: No details available. Reliability: uncheckable. | |
| 584240: ANQING Sources: A1 | CHINA | 30.5N 117.0E | 1961-1970 60 | Notes: A1: No details available. Reliability: uncheckable. | |
| 584570: HANGZHOU Sources: A92 | CHINA | 30.3N 120.2E | 10m 1907-1970 60 | Notes: A92: Alt; 10m. "Mean daily max" & "mean daily min" are given, but "mean daily temp" does not appear to be 1/2(max + min). However some correction may have been applied. Reliability: uncheckable. | |
| 586060: NANCHANG Sources: A1, A92 | CHINA | 28.6N 115.9E | 47m 1929-1981 60 | Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable. | |
| 586330: QU XIAN Sources: A1 | CHINA | 28.9N 118.8E | 1961-1970 60 | Notes: A1: No details available. Reliability: uncheckable. | |
| 586590: WENZHOU Sources: A3, A92, A93 | CHINA | 28.0N 120.6E | 1883-1979 60 | Notes: Station was also known as Wenchow, Chekiang & as Yungkia. A3: Alt; 4m. No other details available. A92: Alt; 4m. No other details available. A93: No details available. Reliability: uncheckable. | |
| 588470: FUZHOU Sources: A1, A92, A93 | CHINA | 26.0N 119.5E | 1880-1979 60 | Notes: A1: Alt; 20m, present alt = 88m. No other details available. A92: Alt; 20m. No other details available. A93: No details available. Reliability: | |
| 589210: YONGAN Sources: A1 | CHINA | 25.9N 117.3E | 1961-1970 60 | Notes: A1: No details available. Reliability: uncheckable. | |
| 590650: TAOTUAN Sources: A1 | CHINA | 25.0N 121.2E | 1961-1970 60 | Notes: A1: No details available. Reliability: uncheckable. | |
| 590820: SHAOGUAN Sources: A1 | CHINA | 24.7N 113.5E | 69m 1961-1979 60 | Notes: A1: No details available. Reliability: uncheckable. | |
| 591340: XIAMEN Sources: A92, A93 | CHINA | 24.4N 118.0E | 1886-1970 60 | Notes: Station was also known as Amoy. A92: Alt; 5m. No other details available. A93: Alt; 43m. No other details available. Reliability: uncheckable. | |
| 592110: BOSE Sources: A1 | CHINA | 23.9N 106.5E | 1961-1970 60 | Notes: A1: No details available. Reliability: uncheckable. | 111 |
| 592870: GUANGZHOU Sources: A1 | CHINA | 23.1N 113.3E | 6m 1961-1980 60 | Notes: A1: No details available. Reliability: uncheckable. | |
| 593160: SHANTOU Sources: A1, A3, A92 | CHINA | 23.3N 116.6E | 1m 1880-1981 60 | Notes: Station was also known as Swatow & as Kwangtung. A1: No details available. A3: Alt; 3m. No other details available. A92: Alt; 3m. No other details available. Reliability: uncheckable. | |
| 593457: PESCADORES Sources: A1, A4 | CHINA | 23.5N 119.6E | 9m 1897-1944 60 | Notes: A1: No details available. A4: Alt; 9m. 1897-1939; 1/6(02 + 06 + 10 + 14 + 18 + 22) JST. 1940-1944; 1/3(06 + 14 + 22) JST. Reliability: uncheckable. | |

594310: NANNING CHINA 22.8N 108.3E 72m 1907-1981 60
Sources: A1, A92

Notes: A1: No details available. A92: Possibly 1/2(max + min). No other details available. Reliability: uncheckable.

596630: YANGJIANG CHINA 21.8N 111.9E 1961-1970 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

597580: HAIKOU CHINA 20.0N 110.3E 14m 1961-1980 60
Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

600007: MAOS CANARY IS. 27.7N 18.0W 14m 1881-1888 63
Sources: A43

Notes: A43: Temp; 1/2(max + min). Observations also taken at same time as Press; 1881-1885; 1/3(06 + 13 + 21), 1886-1888; 1/3(07 + 11 + 19). Alt; 14m. Reliability: uncheckable.

600100: IZANA CANARY IS. 28.3N 16.5W 2367m 1951-1970 10 1951
Sources: A1

Notes: A1: 1/2(max + min). 1951-1960; 28 18°N 16 30'W, alt = 2367m. 1961-1970; alt = 2368m. Reliability: compared with 600150, 600200 & 600300 for the years 1951-1970.

600150: TENERIFE/LOS RODEOS CANARY IS. 28.5N 16.3W 641m 1885-1976 20 1885
Sources: A1, A43, A130

Notes: A1: 1885-1900; alt = 506m. 1911-1950; alt = 547m. 1885-1930; Means of 1/2(daily max + daily min). From Sept 1915 a standard Madrid type screen was used. 1931-1950; 1/3(07 + 13 + 18) GMT. In 1940 the station was moved from 28 28'N 16 21'W to 28 30'N 16 19'W. 1951-1960; alt = 641m. Means of 1/2(max + min). 1961-1970; 28 29'N 16 20'W, alt = 632m. A130: No details available. A43: Means of 1/2(max + min). 28 29'N 18 35'W of Paris, alt = 24m. Reliability: compared with 600200 & 600300 for the years 1920-1976 & 1885-1976. Corrected for a jump 1950/1951. Correction Factors: Stations used: 600200 & 600300. Calculation dates: 1940-1950. Correction dates: 1951-1970. Factors: -2 -6 -8 -12 -11 -18 -19 -18 -11 -5 -8 0.

600200: SANTA CRUZ/TENERIFE CANARY IS. 28.5N 16.2W 46m 1880-1980 10 1921
Sources: A1, A43, A130

Notes: A1: Means of 1/2(mean max + mean min). 1951-1960; 28 27'N 16 15'W, alt; 46m. 1961-1970; 28 28'N 16 15'W, alt = 36m. A43: 1880-1882; 1/4(1138 + 1738 + 1938 + 2338), 1883-1892; 1/2(1103 + 1703), 1893-1910; 1/2(09 + 17). Site; 28.1N 16.1W. Alt; 1880-1895 = 36m, 1896-1905 = 17m, 1906-1910 = 25m. A130: No details available. Reliability: compared with 600300 for the

years 1920-1980.

600300: LAS PALMAS (GANDO) CANARY IS. 27.9N 15.3W 25m 1879-1980 12 1879
Sources: A1, A43, A130

Notes: A1: 1951-1960; alt = 22m. Means of 1/2(mean max + mean min). 1961-1970; 27 56'N 15 23'W, alt = 24m. A43: Temp; 1/2(max + min). Observations were also made at same time as Press; 1880-1882; 1/2(1136 + 1736), 1886-1888; 1/2(01 + 18), 1889-1900; 1/2(13 + 18), 1901; 1/3(09 + 15 + 19), 1902-1909; 1/3(09 + 15 + 18), 1910; 1/2(09 + 15). Alt; 1886-1892 = 9m, 1893-1914 = 7m. 1911-1914; 28 07'N 17 46'W of Paris. A130: 1941-1942; Gando, airport. Reliability: compared with 600200 for the years 1920-1980.

600350: FUERTEVENTURA CANARY IS. 28.5N 13.9W 1952-1960 61
Sources: A1

Notes: A1: 1/2(max + min). 1952-1960; 28 31'N 13 53'W, alt = 228m. Reliability: uncheckable.

600600: SIDI IFNI CANARY IS. 29.4N 10.2W 45m 1951-1968 62
Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 29 22'N 10 11'W, alt = 66m. Reliability: uncheckable. 112

600960: VILLA CISNEROS CANARY IS. 23.7N 15.9W 10m 1951-1975 62
Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 23 42'N 15 52'W, alt = 10m. Reliability: uncheckable.

601010: TANGER MOROCCO 35.5N 5.6W 60m 1880-1945 62
Sources: A29, A43, A130, A167

Notes: A29: No details available. A43: Means of 1/2(max + min). Observations were also taken at 07, 14 & 21h. Alt; 1898-1909 = 75m. 1910-1911, 35 47'N 8 09'W of Paris, alt = 60m. A130: No details available. A167: Means of 1/2(max + min). Alt = 73m. No other details available. Reliability: uncheckable.

601190: KENITRA MOROCCO 34.3N 6.6W 1923-1960 60
Sources: A1, A167

Notes: A167: 1/2(max + min). 34 16'N 6 34'W, alt = 25m. A1: 1951-1960; 1/2(max + min). Alt = 12m. Reliability: uncheckable.

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|------|-----------|-----------|---------|--|--|
| 601400: FE8 Sources: A1, A167 | MOROCCO | 34.0N | 5.0W | 1923-1961 | 60 | | | |
| Notes: A167: 1/2(max + min). 34 02'N 5 00'W, alt = 416m. Site changes occurred in 1938/1939, 1945/1946 and 1947/1948. No other details available. A1: 1951-1960; 1/2(max + min). 1951-1952; alt = 416m, 1953-1960 = 414m. Reliability: uncheckable. | | | | | | | | |
| 601500: MEKNES Sources: A167 | MOROCCO | 33.1N | 5.5W | 549m | 1923-1980 | 60 | | |
| Notes: A167: 1/2(max + min). Alt; 532m. In 1928 site moved from Meknes Aviation, 550m, to Jardin d'Essais and back again. 1937-1943 & 1946-1947; observations are from the Horticultural station. Reliability: uncheckable. | | | | | | | | |
| 601550: CASABLANCA Sources: A1 | MOROCCO | 33.1N | 7.8W | 58m | 1902-1980 | 10 1924 | | |
| Notes: A1: 1951-1960; 1/2(max + min). 1951-Aug 1956; Camp Cases, 33 34'N 7 36'W, alt = 55m. Sept 1956-1960; alt = 58m. Reliability: compared with 602300 for the years 1924-1980. | | | | | | | | |
| 601900: KASBA-TADLA Sources: A167 | MOROCCO | 32.6N | 6.3W | 507m | 1928-1972 | 60 | | |
| Notes: A167: 1/2(max + min). Alt; 1928-1935 = 505m, 1936-1948 = 500m. No other details available. Reliability: uncheckable. | | | | | | | | |
| 602300: MARRAKECH Sources: A1, A43 | MOROCCO | 31.6N | 8.0W | | 1900-1980 | 10 1901 | | |
| Notes: A43: Means of 1/2(max + min). 1901-1910; 31 35'N 9 57'W of Paris, alt = 442m. 1911-1914; 31 27'N 10 20'W of Paris, alt = 500m. A1: Means of 1/2(max + min). 1924-1950; alt = 1519ft. 1951-1952 = 463m. 1953-1960 = 466m. Reliability: compared with 601550 for the years 1924-1980. | | | | | | | | |
| 602500: AGADIR Sources: A167 | MOROCCO | 30.3N | 9.7W | 19m | 1923-1980 | 60 | | |
| Notes: A167: 1/2(max + min). 30 27'N 9 33'W. Various changes in alt were made, varied between 11 and 32m. No other details available. Reliability: uncheckable. | | | | | | | | |
| 602650: OUARZAZATE Sources: A167 | MOROCCO | 30.9N | 6.9W | 1136m | 1931-1980 | 60 | | |
| Notes: A167: 1/2(max + min). 30 56'N 6 54'W, alt = 1162m. Reliability: uncheckable. | | | | | | | | |
| 603550: SKIRDA Sources: A5, A43, A121 | ALGERIA | 36.5N | 6.5E | | 1854-1974 | 62 | | |
| Notes: Also known as Phillipenville. A5: No details available. A43: Means of 1/2(max + min). No other details available. A121: Means of 1/2(max + min). Alt; 1931-July 1934 = 71m, Aug 1934-May 1935 = 42m, June 1935-1937 = 47m, 1938-1941 = 42m. Reliability: uncheckable. | | | | | | | | |
| 603600: ANNABA Sources: A1 | ALGERIA | 36.8N | 7.8E | 4m | 1963-1974 | 61 | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | |
| 603900: ALGER/DAR EL BEIDA Sources: A1, A5, A35, A43, A84, A121 | ALGERIA | 36.7N | 3.3E | 25m | 1838-1980 | 10 1856 | | |
| Notes: A1: 1951-1960; alt = 28m, 1961-1974 = 25m. Temp; means of 1/2 (max + min). A5: Alt; 13m. No other details available. A35: Anomalies from mean (no years given). A43: Probably means of 1/2(max + min). Data come from 3 sites, but no details are given; 1888-1900 from Hotel du Ville, 1884-1888 from Fort L'Empereur & 1878-1885 from Hotel du Dey. A84: Observations are from Jardin d'Essau du Hammam, alt = 10m. No other details available. A121: Means of 1/2(max + min). Alt; 59m. Reliability: compared with 604900 & 605900 for the years 1956-1974 & 1892-1974. | | | | | | | | |
| 604000: CAP CARBON Sources: A1 | ALGERIA | 36.8N | 5.1E | | 1951-1960 | 61 | | |
| Notes: A1: 1/2(max + min). 1951-1960; 36 45'N 5 06'E, alt = 230m. Reliability: uncheckable. | | | | | | | | |
| 604020: BEJAIA Sources: A1 | ALGERIA | 36.8N | 5.0E | | 1969-1974 | 61 | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | |
| 604190: CONSTANTINE Sources: A1, A5, A43, A121 | ALGERIA | 36.4N | 6.6E | 660m | 1837-1980 | 62 | | |
| Notes: A1: Alt; 660m. No other details available. A5: No details available. A121: Means of 1/2(max + min). Alt; 1938-Mar 1939 = 660m, Apr 1939-Apr 1942 = 624m, May 1942-1951 = 660m. A43: 36 22'N 4 17'E of Paris. Alt; 1901-1910 = 625m, 1911-1912 = 660m, 1913-1914 = 625m, Military Hospital. Means of 1/2(max + min). Reliability: uncheckable. | | | | | | | | |
| 604300: MILIANA Sources: A1 | ALGERIA | 36.3N | 2.2E | 722m | 1951-1972 | 62 | | |
| Notes: A1: 1/2(max + min). 1951-1960; 36 20'N 2 14'E, alt = 722m. Reliability: uncheckable. | | | | | | | | |

604450: SETIF ALGERIA 36.2N 5.4E 1086m 1878-1951 62
 Sources: A40, A43, A121

Notes: A40: Alt; 1086m. Means of 1/2(max + min). A121: Means of 1/2(max + min). Alt; 1931-Apr 1938 = 1079m, May 1938-1944 = 1081m. A43: 1909; 36 44'N 3 25'E of Paris, alt = 8m. 1910-1914; 36 11'N 3 04'E of Paris, alt = 1080m. Means of 1/2(max + min). Reliability: uncheckable.

604527: MOSTAGANEM ALGERIA 35.9N .1E 100m 1852-1862 63
 Sources: A40

Notes: A40: Alt; 100m. Temp; 1/2(max + min). Press; means of observations taken at 16h. Reliability: uncheckable.

604680: BATNA ALGERIA 35.6N 6.2E 1054m 1855-1951 62
 Sources: A5, A43, A121

Notes: A5: Alt; 1031m. No other details available. A43: Means of 1/2(max + min). Alt; 1054m. 1902-1914; 35 33'N 3 51'E of Paris. Alt = 1058m. A121: 1/2(max + min). 1931-1939; alt = 1044m, 1940-1951 = 1031m. Reliability: uncheckable.

604750: TEBESSA ALGERIA 35.4N 8.1E 816m 1951-1962 61
 Sources: A1

Notes: A1: 1/2(max + min). 1951-1960; 35 26'N 8 08'E, alt = 816m. Reliability: uncheckable.

604900: ORAN/ES SENIA ALGERIA 35.6N .6W 90m 1841-1974 10 1852
 Sources: A1, A5, A40, A43, A121

Notes: A1: Means of 1/2(max + min). Alt; 1929-1950 = 289ft, 1951-1960 = 99m. A5: No details available. A40: Alt; 50m. Temp; 1/2(max + min). Press; means of observations taken at 16h. A121: Means of 1/2(max + min). Alt; 1931-Jan 1933 = 3m, Feb 1933-Aug 1948 = 11m, Sept 1948-1951 = 35m. A43: 35 42'N 2 59'E of Paris. Alt; 1901-1908 = 60m, 1909-1912 = 53m, 1913-1914 = 52m, Military Hospital. Means of 1/2(max + min). Reliability: compared with 603900 & 605900 for the years 1856-1974 & 1892-1974.

605250: BISKRA ALGERIA 34.8N 5.7E 81m 1932-1974 62
 Sources: A1

Notes: A1: 1932-1950; 1/2(max + min). 34 48'N 5 44'E, alt = 266ft. 1951-1960; alt = 81m. Reliability: uncheckable.

605300: TLEMCEN ALGERIA 34.8N 1.3W 1853-1971 62
 Sources: A5, A43, A121

Notes: A5: Alt; 806m. No other details available. A43: Alt; 828m. Means of 1/2(max + min). A121: Means of 1/2(max + min). Alt; 1931-Apr 1938 = 806m, May 1938-1951 = 810m. Reliability: uncheckable.

605350: DJELFA ALGERIA 34.7N 3.2E 1875-1979 61
 Sources: A1

Notes: A1: No details available. Reliability: uncheckable.

605450: LAGHOUAT ALGERIA 33.8N 2.9E 767m 1878-1971 10 1938
 Sources: A1, A43, A121

Notes: A1: Alt; 767m. Means of 1/2(max + min). A43: Alt; 770m. Means of 1/2(max + min). 1901-1914; 33 48'N 0 33'E of Paris, alt; 752m. 1907-1914; alt = 780m. A121: 1/2(max + min). Alt; Jan-Mar 1938 = 767m, Apr 1938-1951 = 765m. Reliability: compared with 605490 & 605500 for the years 1882-1950 & 1878-1957.

605490: MECHERIA ALGERIA 33.6N .3W 176m 1882-1950 10 1882
 Sources: A43, A121

Notes: A43: Means of 1/2(max + min). Alt; 1882-1885 = 1140m, 1886-1890 = 176m. A121: Means of 1/2(max + min). Alt; 1931-Aug 1943 = 1167m, Sept 1943-1950 = 1157m. Reliability: compared with 605450 & 605500 for the years 1882-1950.

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605500: GERYVILLE ALGERIA 33.8N 1.0E 1306m 1878-1951 10 1878
 Sources: A43, A121

Notes: A121: Means of 1/2(max + min). Alt; 1931-Oct 1938 = 1320m, Nov 1938-1951 = 1305m. A43: Means of 1/2(max + min). Alt; 1306m. 1901-1914; 33 41'N 1 20'E of Paris. Alt; 1901-1912 = 1305m, 1913-1914 = 1310m. Reliability: compared with 605450 & 605490 for the years 1878-1951 & 1882-1950.

605510: ATATA ALGERIA 33.5N 3.7E 41m 1889-1907 63
 Sources: A29

Notes: A29: Means of 1/2(max + min). Alt; 41m. Reliability: uncheckable.

605660: GHARDAIA ALGERIA 32.4N 3.8E 520m 1888-1980 62
 Sources: A1, A43

Notes: Also known as Moumerate. A1: Means of 1/2(max + min). No other details available. A43: Alt; 520m. Means of 1/2(max + min). 1912-1913; 32 20'N 10 20'E of Paris. Alt; 1912 = 539m, 1913 = 530m. Reliability: uncheckable.

605667: AIR SEFRA ALGERIA 32.9N .4W 1022m 1890-1914 63
 Sources: A43

Notes: A43: Alt; 1022m. Means of 1/2(max + min). 1901-1912; 32 56'N 2 42'W of Paris. Alt; 1901-1908 = 1072m, 1909-1912 = 1085m. 1913-1914; 32 46'N 2 56'W of Paris. Alt; 1075m. Reliability: uncheckable.

605710: BECHAR ALGERIA 31.5N 2.2W 1906-1980 10 1951
 Sources: A1

Notes: Alt: 1/2(max + min). 1951-1960; 31 38'N 2 15'W, alt = 806m. Reliability: compared with 605900 & 607150 for the years 1951-1974 & 1951-1980.

605800: QUARGLA ALGERIA 32.0N 5.3E 141m 1902-1971 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

605810: HASSI-MESSOUD ALGERIA 31.7N 2.9E 1968-1974 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

605900: EL GOLEA ALGERIA 30.5N 2.8E 398m 1892-1974 20 1892
 Sources: A1, A43

Notes: A1: Means of 1/2(max + min). Alt; 1930-1950 = 125ft, 1951-1960 = 398m. A43: Means of 1/2(max + min). 1901-1908; 30 33'N 0 44'E of Paris, alt = 383m. 1909-1912; alt = 303m. 1913-1914; alt = 380m. Reliability: compared with 605710 & 606250 for the years 1951-1974 & 1931-1962. Corrected for a jump 1955/1956. Correction Factors: Stations used: 605710 & 606250. Calculation dates: 1951-1955. Correction dates: 1956-1962. Factors: -7 -8 -9 -9 -8 -12 -13 -6 -13 -12 -5 -11.

606000: BENI-ABBES ALGERIA 30.1N 2.2W 498m 1931-1969 60
 Sources: A1

Notes: A1: 1931-1950; 1/2(max + min). 30 08'N 2 11'W, alt = 1621ft. 1951-1960; 30 08'N 2 10'W, alt = 498m. Reliability: uncheckable.

606070: TIMIMOUN ALGERIA 29.2N .2E 1939-1974 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

606110: IN AMENAS ALGERIA 28.1N 9.6E 562m 1963-1980 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

606200: ADRAR ALGERIA 27.8N .4W 264m 1906-1973 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

606250: AOULEF ALGERIA 27.1N 1.1E 290m 1931-1962 10 1931
 Sources: A1

Notes: A1: 1/2(max + min). 1931-1950; 27 04'N 1 06'E, alt = 902ft. 1951-1960; 26 58'N 1 05'E, alt = 290m. Reliability: compared with 605900 & 607150 for the years 1931-1962.

606300: IN SALAH ALGERIA 27.2N 2.5E 243m 1903-1980 62
 Sources: A1, A43, A98

Notes: A1: 1964-1974; alt = 243m. No other details available. A98: Means of 1/2(max + min). 1910-1913; 27 17'N 2 27'E, alt = 330m. 1914-1917; 27 08'N 2 27'E, alt = 280m. 1918-1919; 27 01'N 2 21'E, alt = 280m. A43: Means of 1/2(max + min). 1903-1908; 27 17'N 0 07'E of Paris, alt = 300m. 1909-1912; alt = 330m. 1913-1914; 27 08'N 0 07'E of Paris, alt = 280m. Reliability: uncheckable.

606560: TINDOUF ALGERIA 27.7N 8.1W 1935-1974 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

606700: DJANET ALGERIA 24.5N 9.4E 1054m 1925-1980 62
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

606750: OUALLEN ALGERIA 24.6N 1.2E 347m 1931-1962 60
 Sources: A1

Notes: A1: 1931-1950; 1/2(max + min). 24 36'N 1 14'E, alt = 1191ft. 1951-1960; 24 36'N 1 17'E, alt = 347m. Reliability: uncheckable.

606800: TAMANRASSET ALGERIA 22.8N 5.5E 1378m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1/2(max + min). 1951-1960; 22 48'N 5 32'E, alt = 1378m. Reliability: compared with 612020 for the years 1951-1980.

607150: TUNIS CARTHAGE TUNISIA 36.8N 10.2E 4m 1878-1980 20 1887
 Sources: A1, A43

Notes: A1: Alt; 1896-1920 = 21m, 1921-1950 = 32m. 1896-1931; All values have been corrected to the mean of 24 hours, by corrections given on p25, vol 79 & based on hourly observations at Metlaoui, Tunis. 1896-1897; 1/2(max + min). 1898; 1/4(07 + 13 + 19 + 0.5(19 + min)). 1899; 1/2(max + min).

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| | 1900-1917; $1/4(07 + 13 + 19 + 0.5(19 + \text{min}))$. 1918-1920; $1/3(07 + 13 + 19)$, 1921-1925; $1/4(07 + 13 + 19 + 0.5(19 + \text{min}))$. 1926-1930; $1/4(08 + 14 + 19 + \text{min})$. Corrections for 1921-1930 given on p14, vol 90. 1931-1950; $1/3(06 + 12 + 18)$ GMT. 1951-1960; means of 24 hours. Alt; 4m. A43: $1/2(\text{max} + \text{min})$. No other details available. Reliability: compared with 606250 & 605900 for the years 1931-1962 & 1892-1974. Corrected for a jump 1950/1951. Correction Factors: Stations used: 606250 & 605900. Calculation dates: 1931-1950. Correction dates: 1951-1962. Factors: -3 -7 -1 0 -5 -3 -4 0 -1 -4 -10 -2. | | | | | | years 1951-1980. Corrected for a jump associated with the 1959-1964 data gap. Correction Factors: Stations used: 610430 & 610240. Calculation dates: 1951-1960. Correction dates: 1961-1980. Factors: -8 2 -9 -6 -4 0 -10 -15 -15 -19 -6 -7. | | | | | | | | | |
| 607250: | JENDOUBA | TUNISIA | 36.5N | 8.8E | 1964-1974 | 61 | 610240: | AGADEZ | NIGER | 16.9N | 7.9E | 1921-1980 | 10 | 1926 | | |
| Sources: | All | | | | | | Sources: | All, A158 | | | | | | | | |
| Notes: | All: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | Notes: | A158: 1926-1931; means of 3 daily observations. 1932-1935; $1/2(\text{max} + \text{min})$. 1936; $1/2(08 + 20)$. No other details available. Alt: Means of $1/2(\text{max} + \text{min})$. 1941-1950; alt = 521m. 1951-1960; alt = 507m. Reliability: compared with 610430 & 610170 for the years 1951-1980. | | | | | | | | |
| 607350: | KAIROUAN | TUNISIA | 35.7N | 10.1E | 1961-1974 | 61 | 610360: | TILLABERY | NIGER | 14.2N | 1.5E | 210m | 1951-1980 | 60 | | |
| Sources: | All | | | | | | Sources: | All | | | | | | | | |
| Notes: | All: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | Notes: | All: 1951-1960; $1/2(\text{max} + \text{min})$. $14^{\circ}12'N$ $1^{\circ}27'E$, alt = 210m. Reliability: uncheckable. | | | | | | | | |
| 607450: | GAFSA | TUNISIA | 34.4N | 8.8E | 314m | 1902-1974 | 61 | 610430: | TABOURA | NIGER | 14.9N | 5.2E | 1921-1980 | 10 | 1951 | |
| Sources: | All | | | | | | Sources: | All | | | | | | | | |
| Notes: | All: Means of 24 hourly readings. No other details available. Reliability: uncheckable. | | | | | | Notes: | All: 1951-1960; $1/2(\text{max} + \text{min})$. $14^{\circ}54'N$ $5^{\circ}15'E$, alt = 387m. Reliability: compared with 610240 & 610170 for the years 1951-1980. | | | | | 116 | | | |
| 607500: | SPAK | TUNISIA | 34.7N | 10.7E | 14m | 1888-1914 | 63 | 610490: | MGUIGMI | NIGER | 14.2N | 13.1E | 1921-1980 | 61 | | |
| Sources: | A43 | | | | | | Sources: | All | | | | | | | | |
| Notes: | A43: Means of $1/2(\text{max} + \text{min})$. 1888-1900; alt = 14m. 1901-1914; $34^{\circ}44'N$ $8^{\circ}25'E$ of Paris, alt = 8m. Reliability: uncheckable. | | | | | | Notes: | All: $1/2(\text{max} + \text{min})$. No other details available. Reliability: uncheckable. | | | | | | | | |
| 607650: | CABES | TUNISIA | 33.9N | 10.1E | 5m | 1951-1974 | 10 | 610520: | WIMBAY | NIGER | 13.5N | 2.1E | 1905-1980 | 10 | 1905 | |
| Sources: | All | | | | | | Sources: | All, A43, A58, A158 | | | | | | | | |
| Notes: | All: 1951-1960; means of 24 hours. $33^{\circ}53'N$ $10^{\circ}06'E$, alt = 5m. Reliability: compared with 620070 for the years 1954-1974. | | | | | | Notes: | All: Alt; 1941-1950 = 223m, 1951-1960 = 222m. Means of $1/2(\text{max} + \text{min})$. A58: Alt; 234m. No other details available. A158: 1923-1931; means of 3 daily observations. 1932-1939; means of $1/2(\text{max} + \text{min})$. A43: Means of $1/2(\text{max} + \text{min})$. 1905-1910; $13^{\circ}30'N$ $0^{\circ}13'W$ of Paris, alt = 192m. 1911-1912; $13^{\circ}30'N$ $0^{\circ}14'W$ of Paris, alt = 240m. 1913-1914; alt varied between 190 & 200m. Reliability: compared with 610750 & 612500 for the years 1951-1980. | | | | | | | | |
| 607690: | DJERBA | TUNISIA | 33.8N | 10.6E | 6m | 1890-1913 | 63 | 610750: | BIRNI-N KONNI | NIGER | 13.8N | 5.3E | 274m | 1951-1980 | 10 | 1951 |
| Sources: | A43 | | | | | | Sources: | All | | | | | | | | |
| Notes: | A43: Means of $1/2(\text{max} + \text{min})$. 1890-1900; alt = 6m. 1901-1913; $33^{\circ}48'N$ $8^{\circ}30'E$ of Paris. Alt; 4m. Reliability: uncheckable. | | | | | | Notes: | All: 1951-1960; $1/2(\text{max} + \text{min})$. $13^{\circ}48'N$ $5^{\circ}15'E$, alt = 293m. Reliability: compared with 610430 & 610520 for the years 1951-1980. | | | | | | | | |
| 610170: | BILMA | NIGER | 18.6N | 12.9E | | 1923-1980 | 20 | 610800: | MARADI | NIGER | 13.4N | 7.0E | 1932-1980 | 10 | 1951 | |
| Sources: | All, A158 | | | | | | Sources: | All | | | | | | | | |
| Notes: | A158: $18^{\circ}41'N$ $12^{\circ}55'E$, alt = 359m. $1/2(\text{max} + \text{min})$. All: 1951-1960; $1/2(\text{max} + \text{min})$. Alt = 359m. Reliability: compared with 610430 & 610240 for the | | | | | | Notes: | All: 1951-1960; $1/2(\text{max} + \text{min})$. $13^{\circ}28'N$ $7^{\circ}05'E$, alt = 369m. Reliability: compared with 610900 & 610960 for the years 1951-1980. | | | | | | | | |

610900: ZINDER NIGER 13.8N 9.0E 1905-1980 10 1923
 Sources: A1, A43, A58, A158

Notes: A1: Means of 1/2(daily max + daily min). Alt; 490m. A58: No details available. A158: 1923-1931; means of 3 daily observations. 1932-1939; 1/2(max + min). No other details available. A43: Means of 1/2(max + min). 1905-1908; 13 46'N 6 04'E of Paris, alt = 500m. 1909-1910; 13 48'N 6 37'E of Paris, alt = 445m. 1911-1913; 12 07'N 6 42'E of Paris, alt = 265m. 1914; 13 48'N 6 39'E of Paris, alt = 500m. Reliability: compared with 610960, 610800 & 650460 for the years 1951-1980, 1951-1980 & 1941-1977.

610960: MAINE-SOROA NIGER 13.2N 12.0E 339m 1951-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 13 14'N 11 59'E, alt = 339m. Reliability: compared with 610800 & 610900 for the years 1951-1980.

610990: GAYA NIGER 11.9N 3.5E 1971-1980 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

612020: TESSALIT MALI 20.2N .9E 1947-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 20 12'N 0 59'E, alt = 494m. Reliability: compared with 612140 & 612500 for the years 1951-1980 & 1951-1980.

612140: KIDAL MALI 18.4N 1.3E 1923-1980 10 1953
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 18 26'N 1 21'E, alt = 464m. Reliability: compared with 612020 & 612500 for the years 1951-1980.

612230: TOMBOUCTOU MALI 16.8N 3.0W 298m 1897-1980 20 1897
 Sources: A1, A43, A58, A98

Notes: A1: Alt; 298m. Means of 1/2(daily max + daily min). A43: Means of 1/2(max + min). A58: No details available. A98: Means of 1/2(max + min). 1910-1913; 16 43'N 2 52'W, alt = 250m, 1914-1928; 16 43'N 3 02'W, alt = 270m, 1929-1930; Kabara, 16 45'N 3 01'W, alt = 273m. Reliability: compared with 612020, 612140 & 612500 for the years 1951-1980, 1951-1980 & 1951-1980. Corrected for a jump 1966/1967. Correction Factors: Stations used: 612020 & 612500. Calculation dates: 1951-1966. Correction dates: 1967-1980. Factors: -16 -17 -21 -15 -16 -12 2 -10 -17 -23 -27 -18.

612260: GAO MALI 16.2N 1919-1980 20 1942
 Sources: A1, A158

Notes: A158: 1923-1931; means of 3 daily observations. 1932-1940; 1/2(max + min). No other details available. A1: Means of 1/2(max + min). 1941-1950; alt = 280m. 1951-1960 = 260m. Reliability: compared with 612140 & 612230 for the

years 1953-1980 & 1941-1980. Corrected for a jump 1964/1965. Correction Factors: Stations used: 612140 & 612230. Calculation dates: 1953-1964. Correction dates: 1965-1980. Factors: 8 11 14 2 12 7 11 9 9 13 11 10.

612300: NIORO MALI 14.2N 5.9W 1919-1980 20 1951
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). No other details available. Reliability: compared with 612570 & 616300 for the years 1951-1980. Corrected for a jump 1957/1958. Correction Factors: Stations used: 612570 & 616300. Calculation dates: 1951-1957. Correction dates: 1958-1980. Factors: -10 -14 -14 -14 -10 -9 -2 -4 -6 -12 -13 -12.

612400: BOMBORI MALI 15.2N 1.7W 1920-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 15 20'N 1 41'W, alt = 288m. 1/2(max + min). Reliability: compared with 612260 & 6550101 for the years 1951-1980 & 1951-1979.

612500: MENAKA MALI 15.9N 2.3E 1923-1980 60
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 15 52'N 2 13'E, alt = 280m. Reliability: compared with 612260 & 612140 for the years 1951-1980 & 1951-1980.

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612570: KAYES MALI 14.4N 11.4W 47m 1895-1980 10 1896
 Sources: A1, A43, A58, A158

Notes: A1: Alt; 1941-1950 = 53m, 1951-1960 = 47m. Means of 1/2(max + min). A43: Alt; 60m. Means of 1/2(max + min). In later years observations at 07, 14 & 21b are also available. 1911-1913; 14 29'N 13 37'W of Paris, alt = 38m. 1914; 14 26'N 13 46'W of Paris, alt = 50m. A58: No details available. A158: 1923-1931; means of 3 daily observations. 1932-1939; 1/2(max + min). No other details available. Reliability: compared with 616270, 616300 & 616870 for the years 1951-1980, 1951-1980 & 1941-1980.

612650: MOPTI MALI 14.4N 4.1W 1921-1980 10 1924
 Sources: A1, A158

Notes: A158: 1924-1931; means of 3 daily observations. 1932-1940; 1/2(max + min). 14 30'N 4 12'W, alt = 268m. A1: Means of 1/2(max + min). 1941-1950; alt = 276m. 1951-1960 = 267m. Reliability: compared with 612230, 612770 & 612850 for the years 1941-1980, 1951-1980 & 1951-1980.

612700: KITA MALI 13.0N 9.4W 1931-1980 20 1955
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 13 04'N 9 27'W, alt = 337m. Reliability: compared with 612720 & 612910 for the years 1955-1980. Corrected for a jump 1970/1971. Correction Factors: Stations used: 612720 & 612910. Calculation dates: 1955-1970. Correction dates: 1971-1980. Factors: -15 -10 -7 -7 -2 -4 0 -1 -3 -10 -15 -11.

612720: SEGOU MALI 13.4N 6.1W 1907-1980 10 1951
 Sources: Al, A58

Notes: Al: Means of 1/2(daily max + daily min). Alt: 289m. A58: No details available. Reliability: compared with 612700 & 612910 for the years 1955-1980.

612770: SAN MALI 13.2N 4.9W 1921-1980 80
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 13 20'N 4 50'W, alt = 284m. Reliability: compared with 612650, 612850 & 612930 for the years 1951-1980. Record shows jumps associated with missing data.

612850: NIAFUNKÉ MALI 15.9N 3.9W 1919-1980 80
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). No other details available. Reliability: compared with 612650, 612770 & 612930 for the years 1951-1980. Record shows jumps associated with missing data.

612910: BEMAKO MALI 12.6N 8.0W 332m 1923-1980 10 1923
 Sources: Al, A158

Notes: A158: 1923-1931; means of 3 daily observations. 1932-1940; 1/2(max + min). No other details available. Al: Means of 1/2(max + min). 1941-1960; alt = 332m. Reliability: compared with 612700 & 612720 for the years 1955-1980.

612930: KOUTIALA MALI 12.4N 5.4W 367m 1921-1980 80
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 12 24'N 5 28'W, alt = 346m. Reliability: compared with 612650, 612770 & 612850 for the years 1951-1980. Record shows jumps 1960/1961 & 1969/1971, associated with missing data.

612960: BOUGOURNI MALI 11.4N 7.5W 1921-1980 10 1951
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 11 25'N 7 30'W, alt = 351m. Station may have moved Jan 1952, but no details are given. Reliability: compared with 612970 & 655100 for the years 1951-1980 & 1951-1979.

612970: SIKASSO MALI 11.3N 5.6W 1907-1980 10 1951
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 11 21'N 5 41'W, alt = 375m. Reliability: compared with 612960 & 655100 for the years 1951-1980 & 1951-1979.

614010: BIR MOGRE SENEGRAL 25.2N 11.6W 1942-1980 61
 Sources: Al

Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable.

614030: PT COURARD SENEGRAL 22.6N 12.7W 1938-1980 62
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 22 41'N 12 42'W, alt = 298m. Reliability: uncheckable.

614150: PT ETIENNE SENEGRAL 20.9N 17.0W 1905-1980 60
 Sources: Al, A158

Notes: A158: 1923-1931; means of 3 daily observations. 1932-1940; 1/2(max + min). No other details available. Al: Means of 1/2(max + min). 1941-1960; alt = 8m. Reliability: compared with 614210 for the years 1941-1980.

614210: ATAR SENEGRAL 20.5N 13.0W 1921-1980 10 1923
 Sources: Al, A158

Notes: A158: 1923-1931; means of 3 daily observations. 1932-1936; 1/2(max + min). No other details available. Al: Means of 1/2(max + min). 1941-1950; alt = 229m. 1951-1960 = 226m. Reliability: compared with 614150 for the years 1941-1980.

614370: AKJOUJT SENEGRAL 19.7N 14.3W 1931-1980 62
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 19 45'N 14 22'W, alt = 120m. Reliability: uncheckable.

614420: NOUAKCHOTT MAURITANIA 18.1N 15.9W 1930-1980 60
 Sources: Al

Notes: Al: 1/2(max + min). 1941-1950; 18 07'N 15 56'W, alt = 6m. 1951-1960; alt = 5m. Reliability: uncheckable.

614500: TIDJIKJA SENEGRAL 18.5N 11.4W 1921-1980 62
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 18 33'N 11 26'W, alt = 396m. Reliability: uncheckable.

614610: BOUTILIMIT SENEGRAL 17.5N 14.6W 1921-1980 62
 Sources: Al

Notes: Al: 1951-1960; 1/2(max + min). 17 32'N 14 41'W, alt = 75m. Reliability: uncheckable.

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614890: BOSSO SENEHAL 16.5N 15.8W 6m 1951-1980 62
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 16 30'N 15 49'W, alt = 6m. Reliability: uncheckable.

614970: NEMA SENEHAL 16.6N 7.2W 1922-1980 82
 Sources: A1

Notes: A1: 1941-1960; 1/2(max + min). 16 36'N 7 16'W, alt = 269m. Reliability: compared with 612570 for the years 1941-1980. Record shows a jump 1954/1955 but data are largely missing after 1959 so has not been corrected.

614980: KIFFA SENEHAL 16.6N 11.4W 1922-1980 61
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 16 38'N 11 24'W, alt = 115m. Reliability: uncheckable.

614990: AIOUN EL ATROUSS SENEHAL 16.7N 9.6W 223m 1961-1980 61
 Sources: A1

Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

615997: GOREE SENEHAL 14.4N 19.5W 6m 1854-1866 63
 Sources: A5, A9, A40, A85

Notes: A5: No details available. A9: No details available. A40: Press; Reduced to sea level. Temp; 1/2(max + min). Alt; 6m. A85: No details available. Reliability: uncheckable.

616000: SAINT LOUIS SENEHAL 16.1N 16.5W 4m 1848-1980 60
 Sources: A1, A5, A9, A40, A43, A58, A85, A158

Notes: A1: Means of 1/2(daily max + daily min). Alt; 4m. A5: No details available. A9: No details available. A40: Temp; 1/2(max + min). Press; No details available. A43: Temp is 1/2(max + min). Observations are also available for same times as Press; 1873-1878; no details. 1892-1893; 1/2(1054 + 1854), 1894-1904; no details, 1905-1906; 1/3(09 + 15 + 21), 1907-1910; 1/3(07 + 14 + 21). Alt; 1892-1904 = 5m, 1905-1910 = 2m. 1911-1913; 16 01'N 18 51'W of Paris, alt = 2m. 1913-1914; alt = 5m. A58: No details available. A85: No details available. A158: 1/2(max + min). No other details available. Reliability: compared with 616410 for the years 1898-1980. Record shows a jump 1959/1960 but has not been corrected as many observations are missing.

616120: PODOR SENEHAL 16.6N 14.9W 1918-1980 60
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 16 38'N 14 56'W, alt = 7m. Reliability: uncheckable.

616270: LINGUERE SENEHAL 15.3N 15.1W 1933-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 15 23'N 15 07'W, alt = 21m. Reliability: compared with 612570, 616300 & 616870 for the years 1951-1980.

616300: MATAM SENEHAL 15.6N 13.2W 1918-1980 10 1951
 Sources: A1

Notes: A1: 1951-1960; 15 38'N 13 15'W, alt = 17m. Reliability: compared with 612570, 616270 & 616870 for the years 1951-1980. Last few years contain some suspect values.

616410: DAKAR SENEHAL 14.7N 17.5W 24m 1897-1980 60
 Sources: A1, A43, A58, A158

Notes: A1: Means of 1/2(daily max + daily min). 1951-1977, alt = 24m. A43: Means of 1/2(max + min). Alt; 30m. 14 48'N 19 46'W of Paris. A58: No details available. A158: 1/2(max + min). No other details available. Reliability: uncheckable.

616540: THIES SENEHAL 14.8N 17.0W 1918-1973 61
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 14 48'N 16 57'W, alt = 76m. Reliability: uncheckable.

616660: DIOURBEL SENEHAL 14.8N 16.2W 1919-1980 60
 Sources: A1

Notes: A1: 1951-1960; 1/2(max + min). 14 50'N 16 15'W, alt = 9m. Reliability: uncheckable.

616790: KAOLACK SENEHAL 14.1N 16.1W 7m 1931-1980 60
 Sources: A1, A158

Notes: A158: 1/2(max + min). No other details available. A1: 1951-1960; 1/2(max + min). Alt = 7m. Reliability: uncheckable.

616870: TAMBACOUNDA SENEHAL 13.9N 13.6W 1920-1980 10 1923
 Sources: A1, A158

Notes: A158: 1923-1931; means of 3 daily observations. 1932-1933 & 1937-1939; 1/2(max + min). 1934-1936; 1/4(08 + 20 + max + min). No other details available. A1: Means of 1/2(max + min). 1941-1950; alt = 44m. 1951-1960 = 46m. Reliability: compared with 612570, 616270 & 616300 for the years 1941-1980, 1951-1980 & 1951-1980. 1962 contains some high values.

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| 616950: | ZIGUINCHOR | SENEGAL | 12.6N | 16.3W | 23m | 1923-1980 | 10 | 1923 | |
| Sources: | A1, A158 | | | | | | | | |
| Notes: A158: 1923-1930; means of 3 daily observations. 1931-1960; 1/2(max + min). No other details available. A1: 1951-1960; 1/2(max + min). Alt = 23m. Reliability: compared with 616980 & 617010 for the years 1951-1980. | | | | | | | | | |
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| 616980: | | | | | | | | | |
| KOLDA | | SENEGAL | 12.9N | 14.9W | 22m | 1951-1980 | 10 | 1951 | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1951-1960; 1/2(max + min). 12 55'N 14 55'W, alt = 22m. Reliability: compared with 616950 & 617010 for the years 1951-1980. | | | | | | | | | |
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| 616990: | | | | | | | | | |
| KEDOU | | SENEGAL | 12.5N | 12.1W | | 1918-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 617010: | | | | | | | | | |
| BATHURST | | GAMBIA | 13.6N | 16.6W | 26m | 1884-1980 | 60 | | |
| Sources: | A1, A98 | | | | | | | | |
| Notes: Also known as Banjul, Yundum & as Cape Saint Mary. A1: 1884-1926; alt = 2m. In Jan 1926 the station moved to Cape Saint Mary at 13.5N 16.7W. No information is available as to the relative rainfall at the two sites, so that for the latter is not included until 1931-1936; Means of 1/2(max + min). Alt; 52ft. Yundum station opened in July 1945 at 13.4N 16.7W. Alt; 90ft. Means of 1/2(max + min). 1951-1960; means of 1/2(daily max + daily min), read at station zone time nearest to 09 GMT, as is rain. A98: Means of 1/2(max + min). 1910-1911; 13 24'N 16 36'W, 2m, 1912; 5m, 1913-1918; 2m, 1919-1921; 13 27'N 16 36'W, 2m, 1922-1925; 13 27'N 16 34'W, 2m, 1926-1930; Cape St. Mary, 13 29'N 16 40'W, 16m. Reliability: uncheckable. | | | | | | | | | |
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| 617660: | | | | | | | | | |
| BISSAU AIRPORT | | GUINEA | 11.9N | 15.6W | 40m | 1941-1974 | 60 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1941-1960; 1/2(max + min). 11 51'N 15 36'W, alt = 22m. Reliability: uncheckable. | | | | | | | | | |
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| 617690: | | | | | | | | | |
| BOLAMA | | GUINEA | 11.5N | 15.4W | | 1924-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618090: | | | | | | | | | |
| LABE AERO | | GUINEA | 11.4N | 12.3W | | 1923-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618110: | | | | | | | | | |
| SIGUIRI | | GUINEA | 11.4N | 9.1W | | 1922-1979 | 62 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618160: | | | | | | | | | |
| BOKE | | GUINEA | 10.9N | 14.3W | | 1922-1980 | 62 | | |
| Sources: | A158 | | | | | | | | |
| Notes: A158: 1923-1931; means of 3 daily observations. 1932-1939; 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618180: | | | | | | | | | |
| KINDIA | | GUINEA | 10.0N | 12.8W | | 1922-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618200: | | | | | | | | | |
| MAMOU | | GUINEA | 10.3N | 12.0W | | 1922-1980 | 60 | | |
| Sources: | A1, A98 | | | | | | | | |
| Notes: A158: 1923-1931; means of 3 daily observations. 1932-1939; 1/2(max + min). No other details available. A1: Means of 1/2(max + min). 1951-1960; alt = 785m. 1951-1960 = 782m. Reliability: uncheckable. | | | | | | | | | |
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| 618290: | | | | | | | | | |
| KANKAN | | GUINEA | 10.3N | 9.3W | | 1921-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618320: | | | | | | | | | |
| CONAKRY | | GUINEA | 9.5N | 13.9W | | 1905-1980 | 62 | | |
| Sources: | A1, A43, A98, A158 | | | | | | | | |
| Notes: A1: 1951-1960; Aerodrome, 9 34'N 13 37'W, alt = 46m. Means of 1/2(max + min). A98: Means of 1/2(max + min). 1910-1914; 9 31'N 13 43'W, alt = 16m, 1915; 9 40'N 13 42'W, 1916-1920; 9 40'N 13 43'W, 1921-1922; 9 40'N 13 42'W, 1922; 9 40'N 13 40'W, 1923-1925; 9 40'N 13 43'W, 1926-1934; 9 31'N 13 43'W, 1932-1934; alt = 13m. A158: 1/2(max + min). 1935-1948; 9 30'N 13 43'W, alt = 5m. 1949-1950; 9 34'N 13 37'W, alt = 46m. A43: 1/2(max + min). 1905-1909; 9 04'N 16 02'W of Paris, alt = 16m. 1910-1914; 9 31'N 16 03'W of Paris, alt = 16m. Reliability: uncheckable. | | | | | | | | | |
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| 618340: | | | | | | | | | |
| KIBSIDOUGOU | | GUINEA | 9.1N | 10.1W | | 1921-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |
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| 618470: | | | | | | | | | |
| MACENTA | | GUINEA | 8.5N | 9.5W | 54/m | 1964-1980 | 61 | | |
| Sources: | A1 | | | | | | | | |
| Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | |

618490: N ZEREKORE GUINEA 7.7N 8.6W 470m 1964-1980 61
 Sources: A1
 Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

618560: LUNGI SIERRA LEONE 8.5N 13.2W 27m 1849-1980 10 1891
 Sources: A1, A7
 Notes: A1: Means of 1/2(daily max + daily min). Many early months are unreliable & have been corrected by applying 4 corrections, given on pl5, vol 79. After 1925 the thermometer was exposed. In June 1929 the mean was computed from 1/2(max + 09), by applying a correction of -4.25%. There were a variety of minor site changes throughout the period, some details of which are given in the text. No corrections are made. Alt: 27m. Sites: 1931-April 1935; Tower Hill, 8 29'N 13 14'W, alt = 214ft, May 1935-June 1939; alt = 171ft, July 1939-Aug 1947; Falconbridge Point, 8 30'N 13 14'W, alt = 37ft, Sept 1947-1960; 8 37'N 13 12'W, alt = 87ft, 1951-1960; alt = 25m. A7: Means of 1/2(max + min). Alt = 120m. Reliability: compared with 618910 & 618860 for the years 1951-1980 & 1955-1980.

618660: BONTHE SIERRA LEONE 7.5N 12.5W 8m 1951-1980 10 1955
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 7 32'N 12 30'W, alt = 3m. Reliability: compared with 618860 for the years 1955-1980.

618810: BO SIERRA LEONE 8.0N 11.8W 93m 1968-1980 61
 Sources: A1
 Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

618860: KABALA SIERRA LEONE 9.6N 11.6W 464m 1955-1980 10 1955
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 9 35'N 11 33'W, alt = 464m. Reliability: compared with 618560 & 618660 for the years 1955-1980.

618910: DARU SIERRA LEONE 8.0N 10.9W 186m 1951-1980 10 1951
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 7 59'N 10 52'W, alt = 90m. Reliability: compared with 618560 for the years 1951-1980.

619310: SAO TOME SAO TOME .4N 6.7E 15m 1874-1975 12 1874
 Sources: A1, A52
 Notes: A1: Means of 1/2(max + min). 1951-1960; 0 23'N 6 43'E, alt = 13m. 1961-1970; alt = 8m. A52: Alt = 5m. No other details available. Reliability: compared with 645000 for the years 1896-1975. Largely missing data prior to 1941.

619340: SAO TOME PRINCIPE SAO TOME 1.7N 7.4E 1961-1970 61
 Sources: A1
 Notes: A1: 1961-1970; 1/2(max + min). 1 39'N 7 25'E, alt = 3m. Reliability: uncheckable.

620020: NALUT LIBYA 31.8N 11.0E 1925-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 31 52'N 10 59'E, alt = 620m. Reliability: uncheckable.

620037: BENI ULAD LIBYA 31.8N 14.0E 1951-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 31 45'N 14 00'E. Reliability: uncheckable.

620057: MIZDA LIBYA 31.5N 13.0E 1951-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 31 27'N 13 00'E. Reliability: uncheckable.

620070: ZUARA LIBYA 32.9N 12.1E 3m 1951-1975 10 1954 121
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 32 55'N 12 05'E, alt = 3m. Reliability: compared with 607650 for the years 1954-1974.

620087: GARIAN LIBYA 32.2N 13.0E 1951-1960 61
 Sources: A1
 Notes: A1: 1/2(max + min). 32 10'N 13 01'E. No other details available. Reliability: uncheckable.

620097: HOMS/LA VALDAGNO LIBYA 32.6N 14.2E 1951-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 32 36'N 14 12'E. 1/2(max + min). Reliability: uncheckable.

620100: TRIPOLI LIBYA 32.9N 13.2E 84m 1879-1980 62
 Sources: A1, A61, A84
 Notes: A1: Means of 1/2(daily max + daily min). 1944-1960; 33.0N 13.2E. 1961 on; Airport, 32.7N 13.2E, alt = 84m. A61: No details available. A84: No details available. Reliability: uncheckable.

620160: MISURATA LIBYA 32.3N 15.0E 6m 1925-1975 60
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 32 25'N 15 06'E, alt = 6m. Reliability: uncheckable.

620177: TUMMINA LIBYA 32.2N 15.1E 1951-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 32 09'N 15 04'E. Reliability: uncheckable.

620190: SIRTE LIBYA 31.2N 16.4E 1925-1973 62
 Sources: A1
 Notes: A1: 1946-1960; 1/2(max + min). 31 12'N 16 35'E, alt = 22m. Reliability: uncheckable.

620530: BENINA LIBYA 32.1N 20.3E 132m 1945-1980 62
 Sources: A1
 Notes: A1: 1/2(max + min). 1945-1950; 32 05'N 20 16'E, alt = 411ft. 1951-1960; 32 06'N 20 16'E, alt = 125m. Reliability: uncheckable.

620537: BENGHAZI LIBYA 32.1N 20.0E 10m 1886-1921 63
 Sources: A29, A43, A84
 Notes: A29: Means of 1/2(max + min). A43: Means of 1/2(max + min). Alt; 1891-1896 = 8m, 1897-1905 = 10m. A84: No details available. Reliability: uncheckable.

620550: AGEDABIA LIBYA 30.7N 20.2E 1954-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 30 43'N 20 10'E, alt = 5m. Reliability: uncheckable.

620560: SHAHAT LIBYA 32.8N 21.9E 625m 1945-1960 61
 Sources: A1
 Notes: A1: 1/2(max + min). 1945-1950; 32 49'N 21 51'E, alt = 2049ft. 1951-1960; alt = 625m. Reliability: uncheckable.

620590: DERNA LIBYA 32.7N 22.6E 1913-1960 61
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 32 44'N 22 38'E, alt = 9m. Reliability: uncheckable.

620620: TOBRUQ LIBYA 32.0N 23.9E 1914-1973 61
 Sources: A1
 Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

620630: EL ADEM LIBYA 31.9N 23.9E 155m 1945-1975 10 1945
 Sources: A1
 Notes: A1: 1945-1950; 1/2(max + min). 31 51'N 23 55'E, alt = 515ft. 1951-1960; alt = 157m. Reliability: compared with 623060 for the years 1951-1975.

621240: SEBHA LIBYA 27.0N 14.4E 1930-1977 62
 Sources: A1
 Notes: A1: 1945-1950; 1/2(max + min). 27 01'N 14 26'E, alt = 1457ft. 1951-1960; alt = 444m. Reliability: uncheckable.

621310: MON LIBYA 29.1N 16.0E 261m 1954-1975 60
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 29 08'N 15 57'E, alt = 261m. Reliability: uncheckable.

621610: GIALO LIBYA 29.0N 21.6E 62m 1964-1980 61
 Sources: A1
 Notes: A1: 1/2(max + min). No other details available. Reliability: uncheckable.

622710: KUFRA LIBYA 24.2N 23.3E 1933-1980 62
 Sources: A1
 Notes: A1: 1951-1960; 1/2(max + min). 24 13'N 23 20'E, alt = 382m. Reliability: uncheckable.

623000: SALLOUM EGYPT 31.5N 25.2E 6m 1951-1975 62
 Sources: A1
 Notes: A1: 1951-1960; 31 32'N 25 11'E, alt = 4m. 1951-Sept 1954; 1/4(06 + 12 + 18 + min). Oct 1954-1960; means of 24 hours. Reliability: uncheckable.

623030: SIDI BARRINI EGYPT 31.6N 25.9E 1909-1970 62
 Sources: A1
 Notes: A1: 1951-1960; 31 38'N 25 58'E, alt = 21m. 1951; 1/2(max + min). 1952-1960; means of 24 hours. Reliability: uncheckable.

623060: MATRUH EGYPT 31.3N 27.2E 1905-1978 10 1951
 Sources: A1
 Notes: A1: 1951-1960; 31 20'N 27 13'E, alt = 31m. 1956-1960; means of 24 hours. Reliability: compared with 624200 & 624170 for the years 1951-1975.

623180: ALEXANDRIA EGYPT 31.2N 29.8E 1901-1975 10 1945
 Sources: Al

Notes: Al: 1951-1960; 31 12'N 29 57'E, alt = 7m. 1956-1960; means of 24 hours.
 Reliability: compared with 623197 & 623060 for the years 1945-1957 & 1951-1975.

623197: KOM EL NADURA EGYPT 31.2N 29.9E 32m 1868-1957 10 1870
 Sources: Al

Notes: Al: 1870-1888; observations taken at Pirona. Means of 1/4(09 + 21 + max + min), reduced to Kom el Nadura true means by corrections based on comparative observations for 1889-1896. 1889-1896; means between Pirona's corrected results & those of Kom el Nadura. 2 series are in good agreement; average difference is +/- 0.12C. 1897-1920; 1/4(08 + 14 + 20 + min) reduced to true means by corrections from 5 years thermograph charts. 1921-1940; means as above but corrections from 6 years thermograph charts, are on p3, vol 90. Alt; 32m. 1941-1960; means as above, GMT. Corrections are on p7. Reliability: compared with 623330 & 624410 for the years 1886-1957 & 1880-1956.

623330: PORT SAID EGYPT 31.3N 32.3E 1m 1886-1975 12 1886
 Sources: Al, A10, A43

Notes: Also known as El Gamil. Al: 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24) GMT. Alt; 1945-1950 = 6m, 1951-1960 = 1m. A10: No details available. A43: Temp; 1/2(max + min). Observations also taken at same time as Press; 1886-1887; 1/3(0700 + 1417 + 1700), 1888-1893; 1/4(0700 + 1100 + 1417 + 1700), 1894-1895; 1/4(0730 + 1100 + 1400 + 1700), 1896; 1/3(0730 + 1400 + 1700), 1897-1900; 1/3(07 + 14 + 17), 1901; 1/3(0730 + 1400 + 1700), 1902-1910; 1/3(07 + 14 + 17). 1886-1900; alt = 6m. 1901-1910; alt = 4m. 1911-1914; 31 66'N 29 59'E of Paris, alt = 3m. Reliability: compared with 623197 & 624410 for the years 1886-1957 & 1886-1956. Large data gap, 1911-1951.

623380: GRAZZA EGYPT 31.5N 34.5E 16m 1953-1967 61
 Sources: Al

Notes: Al: 1951-1960; 31 30'N 34 27'E, alt = 10m. July 1953-Sept 1956; 1/8(00 + 03 + ...21). May 1959-1960; means of 24 hours. Reliability: uncheckable.

623660: CAIRO EGYPT 30.0N 31.2E 1903-1978 12 1951
 Sources: Al

Notes: Al: 1951-1960; 30 08'N 31 34'E, alt = 95m. 1956-1960; means of 24 hours. Reliability: compared with 623780 for the years 1951-1978.

623710: ABBAISSIA/CAIRO HQ EGYPT 30.1N 31.3E 33m 1869-1960 82
 Sources: Al

Notes: Al: Station was closed at end of 1922 & reopened again in Oct 1955. 1869-1899; means of 3-hourly observations. 1900-1903; means of hourly observations. 1904-1922; 1/4(08 + 14 + 20 + min), reduced to true 24 hour

means by corrections, given in the source. Exposure changed in 1890 & in 1897. Mean temps for 1897, 1898 & 1899 may be too low. Exposure not uniform since 1900, because of trees. 1953-1960; 24 hour means. Reliability: compared with 623780 & 624410 for the years 1904-1960 & 1880-1956. Missing observations 1923-1957 are associated with jumps in the record.

623780: HELWAN EGYPT 29.9N 31.3E 141m 1904-1978 10 1904
 Sources: Al

Notes: Al: 1904-1905 & 1921-1922; 1/4(08 + 14 + 20 + min) reduced to means of 24 hours by corrections given on p17, vol 79. 1906-1920; means of 24 hours from a thermograph, controlled by eye observations taken at 08, 14 & 20b. 29 52'N 31 20'E, alt = 116m. 1921-1940; 1/4(08 + 14 + 20 + min) corrected to means of 24 hours by corrections given on p9, vol XC. 1931-1940; means as above, time is 30E meridian time. 1941-1960; 1/4(06 + 12 + 18 + min) GMT corrected to means of 24 hours by corrections given on p7, vol "1941-1950". Reliability: compared with 623660 & 623710 for the years 1951-1978 & 1904-1960.

623870: EL MINYA EGYPT 28.1N 30.7E 1934-1975 10 1945
 Sources: Al

Notes: Al: 1945-1950; 28 05'N 30 44'E, alt = 40m. 1/8(03 + 06 + 09 + ...24) GMT. 1951-1960; alt = 39m. 1956-1960; means of 24 hours. Reliability: compared with 623930 & 624200 for the years 1951-1975. 123

623930: MANQABAD/ASYUT EGYPT 27.2N 31.1E 70m 1951-1975 20 1951
 Sources: Al

Notes: Al: 1951-1960; 27 11'N 31 06'E, alt = 71m. 1956-1960; means of 24 hours. Reliability: compared with 624200 & 623870 for the years 1951-1975. Corrected for a jump 1967/1968. Correction Factors: Stations used: 624200 & 623870. Calculation dates: 1951-1967. Correction dates: 1968-1975. Factors: -8 -4 -7 -7 -7 -5 -6 -8 1 0 -8.

624020: QENA EGYPT 26.1N 32.5E 1935-1963 61
 Sources: Al

Notes: Al: 1951-1960; 26 10'N 32 43'E, alt = 73m. 1951-Sept 1955; 1/4(06 + 12 + 18 + min). Reliability: uncheckable.

624050: LUXOR EGYPT 25.7N 32.7E 88n 1941-1975 10 1941
 Sources: Al

Notes: Al: City; 25 39'N 32 39'E, alt = 78m. Airport; 25 40'N 32 42'E, alt = 82m. 1949-1950; Airport. 1/4(06 + 12 + 18 + min) GMT adjusted to old city site & to 1/4(08 + 14 + 20 + min) GMT by applying corrections given on p8, vol "1941-1950" & based on 2 years overlapping data. Prec data are in good agreement. 1951-1960; alt = 95m. 1952-1960; means of 24 hours. Reliability: compared with 624320 & 624350 for the years 1951-1975.

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-----------|-----------|------|------|
| 624140: ASWAN | EGYPT | 24.0N | 32.8E | 1933-1978 | 20 | 1951 | |
| Sources: A1, A159 | | | | | | | |
| Notes: A159: Means of 1/2(max + min). 24 02'N 32 53'E, alt = 111m. A1: 1951-Sept 1955; 1/4(06 + 12 + 18 + min). Dec 1955-Nov 1959; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 1951-1960; alt = 196m. Reliability: compared with 624050 & 624620 for the years 1951-1975. Corrected for a jump 1959/1960. Correction Factors: Stations used: 624050 & 624620. Calculation dates: 1951-1959. Correction dates: 1960-1975. Factors: -7 -11 -8 -8 -10 -2 -4 -7 -9 -11 -18 -6. | | | | | | | |
| 624170: SIWA | EGYPT | 29.2N | 25.4E | 1920-1975 | 80 | | |
| Sources: A1, A159 | | | | | | | |
| Notes: A159: Means of 1/2(max + min). 29 12'N 25 29'E, alt = -15m. A1: 1951; 1/4(06 + 12 + 18 + min). 1952-1955; 1/8(00 + 03 + 06 + 09 + 12 + 15 + 18 + 21). 1951-1960; alt = -15m. Reliability: compared with 624200 & 623060 for the years 1951-1975. Record shows some very odd values & a jump 1963/1964. | | | | | | | |
| 624200: BAHARIA | EGYPT | 28.3N | 28.9E | 130m | 1951-1975 | 20 | 1951 |
| Sources: A1 | | | | | | | |
| Notes: A1: 1951-1960; 28 20'N 28 54'E, alt = 128m. 1951-May 1957; 1/4(06 + 12 + 18 + min). June 1957-1960; means of 24 hours. Reliability: compared with 623060 & 624170 for the years 1951-1975. Corrected for a jump 1956/1957. Correction Factors: Stations used: 623060 & 624170. Calculation dates: 1951-1956. Correction dates: 1957-1975. Factors: 7 8 1 9 7 12 11 8 12 11 4 12. | | | | | | | |
| 624320: DAKLA | EGYPT | 25.5N | 29.0E | 1932-1978 | 10 | 1951 | |
| Sources: A1 | | | | | | | |
| Notes: A1: 1951-1960; 25 29'N 29 00'E, alt = 110m. 1951-1956; 1/4(06 + 12 + 18 + min). 1957-1958; 1/8(00 + 03 + ...21). 1958-1960; means of 24 hours. Reliability: compared with 624050 & 624350 for the years 1951-1975. | | | | | | | |
| 624350: KHARGA | EGYPT | 25.4N | 30.5E | 1926-1975 | 10 | 1951 | |
| Sources: A1 | | | | | | | |
| Notes: A1: 1951-1960; 25 26'N 30 34'E, alt = 72m. 1951-Sept 1954; 1/4(06 + 12 + 18 + min). Oct 1954-1960; means of 24 hours. Reliability: compared with 624050 & 624320 for the years 1951-1975. | | | | | | | |
| 624410: ISMAILIA | EGYPT | 30.6N | 32.3E | 12m | 1880-1956 | 12 | 1880 |
| Sources: A1, A43 | | | | | | | |
| Notes: A1: Alt; 12m. Means of 1/4(06 + 12 + 18 + min). A43: Temp; 1/2(max + min). Press; no details. 1910-1914; 30 36'N 29 56'E of Paris, alt = 9m. Reliability: compared with 623197 & 623330 for the years 1880-1956 & 1886-1956. Large data gap 1911-1951. | | | | | | | |
| 624557: SUZ | EGYPT | 30.0N | 32.6E | 3m | 1880-1937 | 63 | |
| Sources: A10, A43 | | | | | | | |
| Notes: A10: No details available. A43: Temp; 1/2(max + min). Observations were also taken at same time as Press; 1881-1882; 1/7(0700 + 0800 + 0853 + 1100 + 1400 + 1417 + 1700). 1883-1884; 1/3(0700 + 1417 + 1700). Alt = 7m. 1888-1893; 1/4(0700 + 1100 + 1417 + 1700). Alt = 3m. 1894-1895; 1/4(07 + 11 + 14 + 17). 1896; 1/4(0730 + 1100 + 1400 + 1700). 1897-1900; 1/4(07 + 11 + 14 + 17). 1901-1908; 1/3(0730 + 1400 + 1700). 1909; 1/3(07 + 14 + 17). 1910; 1/3(0730 + 1400 + 1700). 1911-1912; 29 56'N 30 13'E of Paris, alt = 3m. 1913-1914; 29 59'N 30 11'E of Paris. Reliability: compared with 623710 for the years 1880-1910 but considered uncheckable. | | | | | | | |
| 624620: BURGHADA | EGYPT | 27.3N | 33.8E | 3m | 1951-1975 | 10 | 1951 |
| Sources: A1 | | | | | | | |
| Notes: A1: 1951-1960; 27 17'N 33 46'E, alt = 1m. 1956-1960; means of 24 hours. Reliability: compared with 624050 & 624140 for the years 1951-1975. | | | | | | | |
| 626000: WADI HALFA | SUDAN | 21.9N | 31.3E | | 1937-1973 | 60 | |
| Sources: A1 | | | | | | | |
| Notes: A1: 1941-Aug 1948; 21 55'N 31 20'E, alt = 128m. Sept 1948-1950; 21 50'N 31 18'E, alt = 160m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: uncheckable. | | | | | | | |
| 626400: ABU HAMED | SUDAN | 15.9N | 33.8E | | 1909-1975 | 10 | 1951 |
| Sources: A1 | | | | | | | |
| Notes: A1: 1951-1960; 1/4(06 + 12 + 18 + min). No other details available. Reliability: compared with 626600 & 626610 for the years 1951-1975. | | | | | | | |
| 626410: PORT SUDAN | SUDAN | 19.6N | 37.2E | | 1906-1980 | 10 | 1943 |
| Sources: A1 | | | | | | | |
| Notes: A1: 1943-1950; 19 35'N 37 13'E, alt = 3m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: compared with 626610 for the years 1951-1975. | | | | | | | |
| 626500: DONGOLA | SUDAN | 19.1N | 30.4E | | 1945-1980 | 61 | |
| Sources: A1 | | | | | | | |
| Notes: A1: 1/4(06 + 12 + 18 + min) GMT. No other details available. Reliability: uncheckable. | | | | | | | |
| 626600: KARIMA | SUDAN | 18.6N | 31.9E | 249m | 1951-1975 | 10 | 1951 |
| Sources: A1 | | | | | | | |
| Notes: A1: 1951-1960; 1/4(06 + 12 + 18 + min). 18 33'N 31 51'E, alt = 250m. Reliability: compared with 626400 & 626610 for the years 1951-1975. | | | | | | | |

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|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-----------|----|------|---------|------------|-------|---|-------|-------|------|-----------|-----|------|
| 626610: | GEBEIT | SUDAN | 19.0N | 36.9E | 796m | 1951-1975 | 10 | 1951 | 627500: | ED DUEIM | SUDAN | • | 14.0N | 32.3E | 378m | 1951-1975 | 12 | 1951 |
| Sources: | All | Notes: All: 1951-1960; 1/2(max + min). 18 57'N 36 51'E, alt = 797m. Reliability: compared with 626410 for the years 1951-1975. Dec 1966 value has been coded as missing. | | | | | | | | | | | | | | | | |
| 626710: | TOKAR | SUDAN | 18.4N | 37.7E | | 1913-1975 | 62 | | 627510: | WAD MEDANI | SUDAN | | 14.4N | 33.5E | 408m | 1951-1975 | 20 | 1951 |
| Sources: | All | Notes: All: 1951-1960; 1/4(06 + 12 + 18 + min). 18 26'N 37 44'E, alt = 20m. Reliability: uncheckable. | | | | | | | | | | | | | | | | |
| 626800: | ATBARA | SUDAN | 17.6N | 33.9E | | 1907-1975 | 10 | 1943 | 627520: | GEDAREF | SUDAN | | 14.0N | 35.4E | | 1966-1975 | 61 | |
| Sources: | All | Notes: All: 1941-1950; 17 42'N 33 58'E, alt = 348m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: compared with 627300, 627510 & 627720 for the years 1943-1975, 1951-1975 & 1943-1975. | | | | | | | | | | | | | | | | |
| 627000: | SHENDI | SUDAN | 16.7N | 33.4E | 360m | 1951-1975 | 72 | | 627600: | EL FASHER | SUDAN | | 13.6N | 25.4E | 730m | 1918-1980 | 20 | 1941 |
| Sources: | All | Notes: All: 1951-1960; 1/2(max + min). 16 42'N 33 26'E, alt = 361m. Reliability: compared with 626800 & 627210 for the years 1951-1975. | | | | | | | | | | | | | | | | |
| 627210: | KHARTOUM | SUDAN | 15.6N | 32.6E | | 1899-1980 | 10 | 1901 | 627700: | GENEINA | SUDAN | | 13.4N | 22.3E | | 1929-1975 | 10 | 1951 |
| Sources: | All | Notes: All: 1901-1910; Military Hospital, 1911-1922; Gordon College, 1901-1907; corrected to Gordon College by means of 3 years of overlap (1908-1910). 1/4(08 + 14 + 20 + min) corrected to means of 24 hours by corrections based on 5 years thermograph records at Gordon College & given on p19, vol 79 & p10, vol XC. 1921-1941; alt = 390m. In Jan 1933 station moved to Stack Laboratory, corrections are given on p4, vol 105. Alt = 390m. 1941-1950; 1/4(08 + 14 + 20 + min) 30E meridian time. Site; Jan-May 1941; 15 36'N 32 32'E. June 1941-June 1944; 15 33'N 32 29'E, alt = 383m. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Alt; 389m. Reliability: compared with 627500, 627510, 627710 & 627720 for the years 1951-1975, 1951-1975, 1910-1980 & 1943-1975. | | | | | | | | | | | | | | | 125 | |
| 627300: | KASSALA | SUDAN | 15.5N | 36.4E | 500m | 1901-1975 | 20 | 1941 | 627710: | EL OBEID | SUDAN | | 13.1N | 30.2E | 74m | 1902-1980 | 20 | 1910 |
| Sources: | All | Notes: All: 1941-1950; 15 28'N 36 24'E, alt = 501m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: compared with 626800 & 627720 for the years 1943-1975. Corrected for a jump 1949/1950. Correction Factors: Stations used: 626800 & 627720. Calculation dates: 1943-1949. Correction dates: 1950-1975. Factors: -1 -3 -6 0 3 -1 2 0 -2 1 -2 3. | | | | | | | | | | | | | | | | |
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627720: KOSTI SUDAN 13.2N 32.7E 381m 1909-1975 20 1943
 Sources: Al

Notes: Al: 1943-1950; 13 10'N 32 40'E, alt = 382m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: compared with 627210, 627300 & 627510 for the years 1943-1975, 1943-1975 & 1951-1975. Corrected for a jump 1957/1958. Correction Factors: Stations used: 627210 & 627300. Calculation dates: 1943-1957. Correction dates: 1958-1975. Factors: -5 -6 -4 -7 -2 -2 -3 -5 -4 -5 -5.

627800: ZALINGEI SUDAN 12.9N 23.4E 1929-1975 82
 Sources: Al

Notes: Al: 1/4(06 + 12 + 18 + min). 1951-1960; 12 54'N 23 19'E, alt = 905m. Reliability: compared with 627700 for the years 1951-1975. Record shows, uncorrectable, jump 1956/1957.

627810: KM MAHUD SUDAN 12.7N 28.4E 1912-1975 20 1951
 Sources: Al

Notes: Al: 1/4(06 + 12 + 18 + min). 12 42'N 28 26'E, alt = 565m. Reliability: compared with 627600 & 627710 for the years 1951-1975. Corrected for a jump 1956/1957. Correction Factors: Stations used: 627600 & 627710. Calculation dates: 1951-1956. Correction dates: 1957-1965. Factors: -21 -20 -13 -11 -7 -13 -12 -17 -20 -16 -18 -17.

627950: TOZI/ABU NAAMA SUDAN 12.5N 34.0E 450m 1952-1975 62
 Sources: Al

Notes: Al: 1951-1960; 1/4(06 + 12 + 18 + min). 12 30'N 34 00'E, alt = 453m. Reliability: uncheckable.

627957: ABU NAAMA SUDAN 12.7N 34.1E 1963-1970 61
 Sources: Al

Notes: Al: 1/4(06 + 12 + 18 + min) GMT. No other details available. Reliability: uncheckable.

628050: DAMAZINE SUDAN 11.8N 34.4E 470m 1962-1980 61
 Sources: Al

Notes: Al: 1/4(06 + 12 + 18 + min) GMT. No other details available. Reliability: uncheckable.

628400: MALAKAL SUDAN 9.6N 31.6E 389m 1909-1980 60
 Sources: Al

Notes: Al: 1941-1950; 9 33'N 31 39'E, alt = 389m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: uncheckable.

628800: WAU SUDAN 7.7N 28.0E 439m 1904-1980 10 1942
 Sources: Al, A98

Notes: Al: 1941-1950; 1/4(08 + 14 + 20 + min) 30E meridian time, corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min). A98: Means of 1/2(max + min). 1910-1933; 7 42'N 28 03'E, alt = 440m. 1934; alt = 436m. Reliability: compared with 627810 & 629410 for the years 1951-1975 & 1941-1980.

629410: JUBA SUDAN 4.9N 31.7E 457m 1901-1980 20 1941
 Sources: Al

Notes: Al: 1941-Nov 1948; 4 51'N 31 37'E, alt = 461m. Dec 1948-1950; 4 52'N 31 36'E, alt = 450m. 1/4(08 + 14 + 20 + min) 30E meridian time corrected to means of 24 hours. 1951-1960; 1/4(06 + 12 + 18 + min) GMT. Reliability: compared with 636300 & 637050 for the years 1951-1975 & 1941-1977. Corrected for a jump 1971/1972. Correction Factors: Stations used: 636300 & 637050. Calculation dates: 1951-1971. Correction dates: 1972-1975. Factors: 14 18 12 7 11 6 5 -1 1 6 10 11.

630210: ASMARA ETHIOPIA 15.3N 38.9E 1903-1980 61
 Sources: Al

Notes: Al: No details available. Reliability: uncheckable.

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630230: MASSAWA ETHIOPIA 15.6N 39.5E 1885-1974 62
 Sources: Al, A103

Notes: Al: No details available. A103: Means of 1/2 (max + min). No other details available. Reliability: uncheckable.

630430: ASSAB ETHIOPIA 13.1N 42.7E 14m 1963-1974 61
 Sources: Al

Notes: Al: No details available. Reliability: uncheckable.

631250: DJIBOUTI SOMALIA 11.5N 43.0E 1901-1978 60
 Sources: Al

Notes: Al: 1/2(max + min). 1951-1960; 11 36'N 43 09'E, alt = 7m. Reliability: uncheckable.

632100: BOSASO SOMALIA 11.3N 49.2E 2m 1934-1960 62
 Sources: Al

Notes: Al: 1934-1960; 11 17'N 49 11'E, alt = 2m. Site changes may have occurred in July 1956 &/or Oct 1958. No other details available. Reliability: uncheckable.

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| 632250: GARDO Sources: Al | SOMALIA | 9.5N | 49.1E | 812m | 1954-1978 | 61 | 634030: GORE Sources: Al | ETHIOPIA | 8.1N | 35.6E | 1914-1980 | 62 | | | | | | | |
| Notes: Al: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 632300: GALCAIO Sources: Al | SOMALIA | 6.9N | 47.3E | 302m | 1933-1960 | 62 | 634500: ADDIS ABABA Sources: Al, A29 | ETHIOPIA | 9.0N | 38.8E | 2360m | 1898-1980 | 62 | | | | | | |
| Notes: Al: 1933-1960; 6 51'N 47 16'E, alt = 302m. Site changes may have occurred in Jan 1955, Jan 1957 &/or Jan 1959. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 632600: MOGADISCIO Sources: Al | SOMALIA | 2.0N | 45.4E | 10m | 1911-1981 | 60 | Notes: Al: 1946-1950; alt = 7753ft. 1951-1960 = 2408m. Rainfall data prior to 1910 are suspect. No other details available. A29: 1898-1900; 1/2(max + min) corrected from 3 years of data. 1901-1907; 1/3(07 + 13 + 21). 1908-1912; 1/4(09 + 21 + max + min), corrections are given but seem too small. Reliability: uncheckable. | | | | | | | | | | | | |
| Notes: Al: 1931-1960; 2 02'N 45 21'E, alt = 10m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 632700: CHISIMAIO Sources: Al | SOMALIA | .3N | 42.5E | | 1894-1960 | 10 | 1933 | 634530: AWASH Sources: Al | ETHIOPIA | 9.0N | 40.2E | 1067m | 1952-1974 | 62 | | | | | |
| Notes: Al: Alt; 10m. No other details available. Reliability: compared with 632600 for the years 1929-1960. | | | | | | | | | | | | | | | | | | | |
| 633310: GONDAR Sources: Al | ETHIOPIA | 12.6N | 37.5E | 2037m | 1952-1980 | 62 | 634710: DIRE DAWA Sources: Al | ETHIOPIA | 9.6N | 41.9E | 1162m | 1964-1980 | 61 | | | | | | |
| Notes: Al: 1951-1960; 12 35'N 37 28'E, alt = 2121m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 633320: BAHAR DAR Sources: Al | ETHIOPIA | 11.6N | 37.4E | | 1967-1974 | 61 | Notes: Al: No details available. Reliability: uncheckable. | | | | | | | | | | | | |
| Notes: Al: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 633330: COMBOLCHA/DESSIE Sources: Al | ETHIOPIA | 11.1N | 40.0E | 1903m | 1952-1980 | 62 | 634740: GORA Sources: Al | ETHIOPIA | 7.0N | 40.0E | | 1967-1974 | 61 | | | | | | |
| Notes: Al: 1951-1960; 11 04'N 39 58'E, alt = 1903m. No other details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 633340: DEBRE MARCOS Sources: Al | ETHIOPIA | 10.4N | 37.7E | 2480m | 1964-1979 | 61 | 634780: CODE Sources: Al | ETHIOPIA | 5.1N | 44.6E | | 1971-1979 | 61 | | | | | | |
| Notes: Al: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 634020: JIMMA Sources: Al | ETHIOPIA | 7.7N | 36.8E | 1677m | 1964-1980 | 62 | 635330: MEGHELLI Sources: Al | ETHIOPIA | 5.3N | 39.8E | | 1975-1980 | 61 | | | | | | |
| Notes: Al: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| Notes: Al: No details available. Reliability: uncheckable. | | | | | | | | | | | | | | | | | | | |
| 127 | | | | | | | | | | | | | | | | | | | |
| 636120: LODWAR Sources: Al | KENYA | 3.1N | 35.6E | | 1920-1975 | 10 | 1951 | Notes: Al: 1951-1960; 3 07'N 35 37'E, alt = 506m. No other details available. Reliability: compared with 636300 & 672170 for the years 1951-1975 & 1954-1975. | | | | | | | | | | | |
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| 636240: MANDERA | KENYA | 4.0N | 41.9E | 231m | 1951-1975 | 10 | 1951 | |
| Sources: Al | | | | | | | | |
| Notes: Alt: 1951-1960; 3 57'N 41 52'E, alt = 331m. No other details available. | | | | | | | | |
| Reliability: compared with 632600 & 637230 for the years 1951-1975. | | | | | | | | |
| | | | | | | | | |
| 636300: GULU | UGANDA | 2.7N | 32.3E | | 1911-1977 | 10 | 1951 | |
| Sources: Al | | | | | | | | |
| Notes: Alt: 1951-1960; 2 45'N 32 20'E, alt = 1109m. Site may have changed June 1957. No other details available. Reliability: compared with 629410 & 637230 for the years 1951-1975 & 1951-1977. | | | | | | | | |
| | | | | | | | | |
| 636710: WAJIR | KENYA | 1.0N | 40.0E | | 1918-1975 | 82 | | |
| Sources: Al, A160 | | | | | | | | |
| Notes: A160: Means of 1/2(max + min). 1 45'N 40 04'E. Alt: 1938-1941 = 879ft, 1942-1944 = 850ft, 1945 = 900ft, 1946-1948 = 800ft. Alt: 1951-1960; alt = 244m. No other details available. Reliability: compared with 632600 & 637230 for the years 1938-1975 & 1940-1975. Record has many missing observations & a jump. | | | | | | | | |
| | | | | | | | | |
| 637050: ENTEBBE | UGANDA | .1N | 32.5E | | 1896-1977 | 80 | 1931 | |
| Sources: Al | | | | | | | | |
| Notes: Alt: 1901-1930; 1/4(07 + 14 + 21 + 21). Alt: 1904-June 1913 = 3863ft, June 1913-1924 = 3842ft. In 1923 changed from a Stevenson to a Soudan pattern screen. 1931-1960; 1/2(max + min). Differences between this & earlier methods are given on p12, vol 105 for 1925-1930. Alt: 3878ft. New airport site is about 3 miles west of the old site (00 4'N 32 29'E). Temp taken at old site up to Jan 1947 as 1/2(max + min) & then at the airport as the means of 24 hours. New alt = 3761ft. 1951-1960; alt = 1146m. Reliability: compared with 637067, 629410 & 636300 for the years 1931-1954, 1941-1977 & 1951-1977. Record shows uncorrected jumps 1950/1951 & 1960/1961. | | | | | | | | |
| | | | | | | | | |
| 637067: KAMPALA | UGANDA | .3N | 32.6E | 1312m | 1931-1954 | 10 | 1931 | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of 24 hours. 1931-1950; 0 20'N 32 36'E, alt = 4304ft, Kololo Hill. 1951-1954; alt = 1312m. Reliability: compared with 637050 for the years 1931-1954. | | | | | | | | |
| | | | | | | | | |
| 637230: GARISSA | KENYA | .6N | 39.5E | | 1931-1980 | 20 | 1940 | |
| Sources: Al, A160 | | | | | | | | |
| Notes: A160: Means of 1/2(max + min). 0 39'N 39 35'E, alt = 600ft. Alt: 1951-1960; alt = 128m. No other details available. Reliability: compared with 632600, 636710 & 636240 for the years 1940-1980, 1940-1975 & 1951-1975. Corrected for a jump 1960/1961. Correction Factors: Stations used: 632600 & 636710. Calculation dates: 1940-1960. Correction dates: 1961-1975. Factors: 3 5 7 5 10 3 4 5 6 7 4. | | | | | | | | |
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| 637390: NAIROBI/KABETE | KENYA | 1.3S | 36.8E | 1820m | 1929-1963 | 60 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of 24 hours. 1931-1940; 1 16'8 36 48'E, alt = 5971ft. 1941-1950; 1 16'8 36 45'E, alt = 5971ft. 1951-1955; alt = 1820m. Reliability: uncheckable. | | | | | | | | |
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| 637400: NAIROBI/AIRPORT | KENYA | 1.3S | 36.9E | 1624m | 1951-1981 | 60 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: 1951-1957; Eastleigh, 1 17'S 36 50"E, alt = 1634m. 1958-1960; Airport, 1 19'8 36 55"E, alt = 1624m. No other details available. Reliability: uncheckable. | | | | | | | | |
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| 637410: NAIROBI/DAGORETTI | KENYA | 1.3S | 36.8E | 1798m | 1955-1975 | 60 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: 1951-1960; 1 18'8 36 45"E, alt = 1798m. No other details available. Reliability: uncheckable. | | | | | | | | |
| | | | | | | | | |
| 640050: MBANDAKA | ZAIRE | .1N | 18.3E | 317m | 1951-1971 | 62 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of an empirically established formula. 1951-1960; 0 03'N 18 16"E, alt = 345m. Also known as Coquilhatville. Reliability: uncheckable. | | | | | | | | |
| | | | | | | | | |
| 640140: LISALA | ZAIRE | 2.3N | 21.6E | 460m | 1952-1971 | 62 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of an empirically established formula. 1952-1960; 2 19'N 21 34"E, alt = 460m. A site change may have occurred in Mar 1956, but no details are given. Reliability: uncheckable. | | | | | | | | |
| | | | | | | | | |
| 640150: LIBENGIE | ZAIRE | 3.6N | 18.6E | 365m | 1951-1971 | 62 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of an empirically established formula. 1951-1960; 3 38'N 18 38"E, alt = 365m. Site change may have occurred April 1959 but no details are given. Reliability: uncheckable. | | | | | | | | |
| | | | | | | | | |
| 640160: BUMBA | ZAIRE | 2.2N | 22.6E | | 1952-1960 | 62 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of an empirically established formula. 1952-1960; 2 11'N 22 33"E, alt = 383m. Reliability: uncheckable. | | | | | | | | |
| | | | | | | | | |
| 640180: BASOKO | ZAIRE | 1.3N | 23.6E | | 1951-1960 | 61 | | |
| Sources: Al | | | | | | | | |
| Notes: Alt: Means of an empirically established formula. 1951-1960; 1 15'N 23 36"E, alt = 385m. Reliability: uncheckable. | | | | | | | | |
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640340: BUTA ZAIRE 2.8M 24.8E 430m 1951-1969 61
 Sources: Al

Notes: Al: Means of an empirically established formula. 1951-1960; 2 47°N 24 47°E, alt = 430m. Reliability: uncheckable.

640400: KISANGANI ZAIRE .5M 25.2E 396m 1951-1971 61
 Sources: Al

Notes: Al: Means of an empirically established formula. 1951-1960; 0 31°N 25 11°E, alt = 415m. Reliability: uncheckable.

640620: ISIRO ZAIRE 2.8M 27.7E 800m 1951-1971 62
 Sources: Al

Notes: Al: Means of an empirically established formula. 1951-1960; 2 46°N 27 39°E, alt = 800m. Also known as Paulis. Reliability: uncheckable.

640720: BUTEMBO ZAIRE .1M 29.3E 1952-1960 61
 Sources: Al

Notes: Al: Means of an empirically established formula. 1952-1960; 0 08°N 29 16°E, alt = 1730m. Site changes may have occurred in Nov 1952, April 1957, May 1958 and April 1960, but no details are given. Reliability: uncheckable.

640740: WATSA ZAIRE 3.1M 29.5E 1951-1960 61
 Sources: Al

Notes: Al: Means of an empirically established formula. 1951-1960; 3 04°N 29 30°E, alt = 1030m. Reliability: uncheckable.

640750: IRUMU ZAIRE 1.4M 25.8E 1928-1956 61
 Sources: Al

Notes: Al: Means of an empirically established formula. 1951-1956; 1 27°N 25 52°E, alt = 920m. Reliability: uncheckable.

640760: BUNIA ZAIRE 1.5M 30.2E 1961-1971 61
 Sources: Al

Notes: Al: No details available. Reliability: uncheckable.

641080: BANNINGVILLE ZAIRE 1.3M 23.6E 1963-1969 61
 Sources: Al

Notes: Al: No details available. Reliability: uncheckable.

641260: BOENDE ZAIRE .2M 20.8E 1930-1971 61
 Sources: Al

Notes: Al: Means of an empirically established formula. 1954-1960; 0 13°S 20 51°E, alt = 370m. Reliability: uncheckable.

644580: OUESSO CONGO 1.6M 16.1E 352m 1951-1979 10 1951
 Sources: Al

Notes: Al: 1/2(max + min). 1951-1960; 1 37°N 16 03°E, alt = 351m. Reliability: compared with 644560 & 644590 for the years 1956-1979 & 1951-1979.

644590: IMPFONDO CONGO 1.6M 16.0E 1932-1980 20 1941
 Sources: Al

Notes: Al: 1/2(max + min). 1941-1950; 1 36°N 18 04°E, alt = 335m. 1951-1960; 1 37°N 18 04°E, alt = 326m. Reliability: compared with 644560 & 644580 for the years 1956-1980 & 1951-1979. Corrected for a jump 1960/1961.

Correction Factors: Stations used: 644560 & 644580. Calculation dates: 1956-1960. Correction dates: 1961-1979. Factors: 6 3 6 6 6 5 3 3 5 3 5 2.

644600: SOUANKE CONGO 2.1M 14.0E 547m 1951-1977 10 1951
 Sources: Al

Notes: Al: 1/2(max + min). 1951-1960; 2 04°N 14 02°E, alt = 549m. Reliability: compared with 645100, 645520 & 645560 for the years 1954-1977, 1951-1977 & 1953-1977.

645000: LIBREVILLE GABON .7M 10.2E 10m 1895-1979 12 1896
 Sources: Al, A43, A58

Notes: Al: Alt; 10m. Means of 1/2(mean max + mean min). A43: Means of 1/2(max + min). Observations were also made at the following times; 1896-1897; 0830h, 1898-1904; 08h, 1905-1910; 08 & 16h. Alt; 1896-1897 = 62m, 1898-1900 = 26m, 1901-1904 = 31m, 1905-1910 = 35m. 1911-1914; 23h 7 06°E of Paris, alt = 35m. A58: No details available. Reliability: compared with 619310 for the years 1896-1975. Large data gap 1915-1951.

645010: PORT GENTIL GABON .7M 8.7E 1937-1980 10 1941
 Sources: Al

Notes: Al: 1/2(max + min). 1941-1950; 0 43°S 8 45°E, alt = 3m. 1951-1960; 0 42°S 8 45°E, alt = 4m. Reliability: compared with 645510 & 644600 for the years 1951-1980.

645040: COCOBEACH GABON 1.0M 9.6E 13m 1951-1980 10 1951
 Sources: Al

Notes: Al: 1/2(max + min). 1951-1960; 1 00°N 9 36°E, alt = 16m. Reliability: compared with 645510 for the years 1951-1980.

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| 645100: BITAM | GABON | 2.1N | 11.5E | 599m | 1951-1979 | 10 | 1954 | | 645600: LASTOURVILLE | GABON | .8S | 12.7E | 485m | 1951-1980 | 62 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 2 05'N 11 29'E, alt = 599m. Reliability: compared with 645520 & 645560 for the years 1954-1979. | | | | | | | | | Notes: Al: 1/2(max + min). 1951-1960; 0 50'8 12 43'E, alt = 483m. Reliability: uncheckable. | | | | | | |
| 645450: MEKAMBO | GABON | 1.0N | 13.9E | 501m | 1951-1979 | 62 | | | 646000: BERBERATI | C. AFR. REP. | 4.2N | 15.7E | | 1946-1980 | 62 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 1 01'N 13 56'E, alt = 501m. Reliability: uncheckable. | | | | | | | | | Notes: Al: 1/2(max + min). 1951-1960; 4 13'N 15 47'E, alt = 583m. Reliability: uncheckable. | | | | | | |
| 645500: MOUILA | GABON | 1.9S | 11.0E | 89m | 1951-1980 | 10 | 1951 | | 646010: BOUAR | C. AFR. REP. | 5.9N | 15.6E | 1020m | 1951-1980 | 62 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 1 52'8 11 01'E, alt = 89m. Reliability: compared with 645100 & 645560 for the years 1954-1979 & 1953-1980. | | | | | | | | | Notes: Al: 1/2(max + min). 1951-1960; 5 56'N 15 35'E, alt = 1019m. Reliability: uncheckable. | | | | | | |
| 645510: LAMBARENE | GABON | .7S | 10.2E | 26m | 1951-1980 | 10 | 1951 | | 646030: BOUCA | C. AFR. REP. | 6.5N | 18.3E | 458m | 1951-1967 | 61 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1958; 00 43'8 10 13'E, alt = 82m. 1959-1960; 0 43'8 10 14'E, alt = 26m. Reliability: compared with 645000, 645010 & 645040 for the years 1951-1979, 1951-1980 & 1951-1980. Record shows small uncorrected jump 1955/1956. | | | | | | | | | Notes: Al: 1/2(max + min). 1951-1960; 6 30'W 18 16'E, alt = 458m. Reliability: uncheckable. | | | | | | 130 |
| 645520: MITZIC | GABON | .8N | 11.5E | 583m | 1951-1980 | 20 | 1951 | | 646050: BOSSEMBLE | C. AFR. REP. | 5.3N | 17.6E | 674m | 1951-1980 | 61 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1951-1960; 1/2(max + min). 0 47'N 11 32'E, alt = 583m. Reliability: compared with 644600 & 645560 for the years 1951-1977 & 1953-1980. Corrected for a jump 1959/1960. Correction Factors: Stations used: 644600 & 645560. Calculation dates: 1953-1959. Correction dates: 1960-1977. Factors: -7 -8 -7 -11 -8 -3 -6 -6 -8 -4 -4 -5. | | | | | | | | | Notes: Al: 1951-1960; 5 16'N 17 38'E, alt = 674m. 1/2(max + min). Reliability: uncheckable. | | | | | | |
| 645530: FRANCEVILLE | GABON | 1.6S | 13.5E | | 1936-1972 | 10 | 1946 | | 646100: BOSSANGOA | C. AFR. REP. | 6.4N | 17.4E | | 1928-1979 | 62 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1/2(max + min). 1941-1950; 1 37'8 13 34'E, alt = 438m. 1951-1960; 1 36'8 13 34'E, alt = 426m. Reliability: compared with 645520 for the years 1951-1970. | | | | | | | | | Notes: Al: 1/2(max + min). 1951-1960; 6 29'W 17 26'E, alt = 465m. Reliability: uncheckable. | | | | | | |
| 645560: MAKOKOU | GABON | .6N | 12.9E | 515m | 1951-1980 | 60 | | | 646500: BAMGUI | C. AFR. REP. | 4.3N | 18.6E | | 1908-1980 | 60 |
| Sources: Al | | | | | | | | | Sources: Al | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 0 34'N 12 52'E, alt = 516m. Reliability: compared with 645100 & 645520 for the years 1954-1979 & 1953-1980. | | | | | | | | | Notes: Al: 1941-1950; 1/2(max + min). 4 22'N 18 55'E, alt = 388m. 1951-1960; 4 23'N 18 34'E, alt = 381m. Reliability: uncheckable. | | | | | | |
| 646540: NDELE | C. AFR. REP. | 8.4N | 20.6E | | 1928-1980 | 10 | 1951 | | Sources: Al | | | | | | |
| Sources: Al | | | | | | | | | Notes: Al: 1/2(max + min). 1951-1960; 8 24'N 20 39'E, alt = 510m. Reliability: compared with 646550 & 646610 for the years 1951-1980 & 1953-1980. | | | | | | |

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| 646550: | BRIA | C. AFR. REP. | 6.5N | 22.0E | 584m | 1941-1980 | 12 1951 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1941-1950; 6 32'N 21 50'E, alt = 650m. 1951-1960; 1/2(max + min). 6 32'N 21 59'E, alt = 584m. Reliability: compared with 646610 & 646540 for the years 1953-1980 & 1951-1980. | | | | | | | | |
| 646560: | BANGASSOU | C. AFR. REP. | 4.8N | 22.8E | 500m | 1941-1980 | 62 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1941-1950; 1/2(max + min). 4 45'N 22 50'E, alt = 494m. 1953-1960; 4 44'N 22 50'E, alt = 500m. Reliability: uncheckable. | | | | | | | | |
| 646580: | BIRAO | C. AFR. REP. | 10.2N | 22.7E | | 1939-1980 | 12 1951 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 10 17'N 22 47'E, alt = 465m. Reliability: compared with 627700, 647540 & 647560 for the years 1951-1975, 1952-1978 & 1951-1978. | | | | | | | | |
| 646590: | OBO | C. AFR. REP. | 5.4N | 26.5E | 651m | 1951-1979 | 62 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 5 24'N 26 30'E, alt = 651m. A site change may have occurred in Feb 1955, but no details are available. Reliability: uncheckable. | | | | | | | | |
| 646600: | BAMBARI | C. AFR. REP. | 5.7N | 20.8E | | 1931-1979 | .62 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 5 46'N 20 40'E, alt = 448m. Reliability: uncheckable. | | | | | | | | |
| 646610: | YALINGA | C. AFR. REP. | 6.5N | 23.3E | 602m | 1951-1980 | 12 1953 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 6 30'N 23 16'E, alt = 602m. Reliability: compared with 646540 & 646550 for the years 1953-1980. Record shows jump 1957/1958. | | | | | | | | |
| 646620: | ALINDAO | C. AFR. REP. | 5.0N | 21.2E | 449m | 1951-1980 | 62 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1951-1960; 5 01'N 21 12'E, alt = 449m. 1/2(max + min). Reliability: uncheckable. | | | | | | | | |
| 647000: | FORT LAMY | CHAD | 12.1N | 15.0E | | 1907-1978 | 20 1951 | |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 12 08'N 15 02'E, alt = 300m. Reliability: compared with 647510 & 647580 for the years 1951-1978. Corrected for a jump 1960/1961. Correction Factors: Stations used: 647510 & 647580. Calculation dates: 1951-1960. Correction dates: 1961-1978. Factors: 1 6 3 -1 -1 3 3 -1 -1 0 -2 0. | | | | | | | | |
| 647010: | MAO | CHAD | | | | 14.1N | 15.3E | 1940-1978 60 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 14 07'N 15 19'E, alt = 356m. Reliability: uncheckable. | | | | | | | | |
| 647020: | BOL | CHAD | | | | 13.4N | 14.7E | 1908-1978 61 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | |
| 647050: | BOUSSO | CHAD | | | | 10.4N | 16.7E | 1943-1978 10 1953 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 10 29'N 16 43'E, alt = 336m. Reliability: compared with 647060 & 647090 for the years 1953-1978. | | | | | | | | |
| 647060: | MOUNDOU | CHAD | | | | 8.5N | 16.0E | 1931-1978 20 1951 131 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1941-1950; 8 34'N 16 05'E, alt = 400m. 1951-1960; 1/2(max + min). 1956-1960; 8 37'N 16 04'E, alt = 422m. Reliability: compared with 647050, 647090 & 647500 for the years 1953-1978, 1953-1978 & 1951-1972. Corrected for a jump 1969/1970. Correction Factors: Stations used: 647050 & 647090. Calculation dates: 1953-1969. Correction dates: 1970-1978. Factors: -4 -2 -1 -1 -4 -8 -4 0 0 -2 -7 -8. | | | | | | | | |
| 647080: | BOKORO | CHAD | | | | 12.3N | 17.0E | 1946-1978 61 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | |
| 647090: | PALA | CHAD | | | | 9.3N | 15.9E | 1946-1978 10 1953 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). 1951-1960; 9 22'N 15 55'E, alt = 464m. A site change may have occurred in Oct 1956, but no details are given. Reliability: compared with 647060 & 647500 for the years 1953-1978. | | | | | | | | |
| 647200: | BARDAI | CHAD | | | | 21.3N | 17.0E | 1961-1966 61 |
| Sources: Al | | | | | | | | |
| Notes: Al: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | |

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|-------|-------|-----------|-----------|------|-----------|----|--|--|
| 647500: | SARH | CHAD | 9.1N | 18.3E | 1931-1978 | 10 | 1941 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 9 08'N 18 23'E, alt = 365m. Also known as Fort Archambault. Reliability: compared with 647050 & 647060 for the years 1953-1978 & 1951-1978. | | | | | | | | | | | |
| 647510: | ATI | CHAD | 13.2N | 18.3E | 1936-1978 | 10 | 1951 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 13 13'N 18 19'E, alt = 334m. A site change may have occurred April 1959, but no details are given. Reliability: compared with 647000 & 647500 for the years 1951-1978. | | | | | | | | | | | |
| 647530: | FAYALARGEAU | CHAD | 18.0N | 19.1E | 1933-1977 | 62 | | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1942-1950; 18 00'N 19 10'E, alt = 245m. 1952-1960; alt = 234m. Reliability: uncheckable. | | | | | | | | | | | |
| 647540: | AM TIMAN | CHAD | 11.0N | 20.2E | 1946-1978 | 82 | | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 11 02'N 20 17'E, alt = 436m. Reliability: compared with 627700 & 646580 for the years 1951-1975 & 1952-1978. Record shows jumps associated with data gaps. | | | | | | | | | | | |
| 647560: | ABECHE | CHAD | 13.8N | 15.0E | 1932-1978 | 82 | | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1941-1950; 1/2(max + min). No other details available. Reliability: compared with 627700 & 646580 for the years 1951-1975 & 1951-1978. Record shows jumps associated with data gaps. | | | | | | | | | | | |
| 647570: | FADA | CHAD | 17.1N | 21.5E | 1934-1972 | 61 | | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). No other details available. Reliability: uncheckable. | | | | | | | | | | | |
| 647580: | MONGO | CHAD | 12.1N | 18.6E | 1949-1978 | 10 | 1951 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 12 12'N 18 47'E, alt = 430m. Reliability: compared with 647000 & 647510 for the years 1951-1978. | | | | | | | | | | | |
| 648510: | MAROUA-SALAK | CAMEROON | 10.5N | 14.3E | 422m | 1954-1980 | 62 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1954-1960; 10 28'N 14 16'E, alt = 421m. Reliability: uncheckable. | | | | | | | | | | | |
| 648530: | KAELE | CAMEROON | 10.1N | 14.5E | | | | 1951-1960 | 61 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 10 05'N 14 27'E, alt = 386m. Reliability: uncheckable. | | | | | | | | | | | |
| 648600: | CAROURA | CAMEROON | 9.3N | 13.3E | | | | 1906-1980 | 62 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 9 20'N 13 23'E, alt = 247m. Reliability: uncheckable. | | | | | | | | | | | |
| 648610: | POLI | CAMEROON | 8.5N | 13.3E | | | | 1951-1960 | 61 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 8 29'N 13 15'E, alt = 437m. Reliability: uncheckable. | | | | | | | | | | | |
| 648700: | NGAOUERENDE | CAMEROON | 7.2N | 13.3E | | | | 1928-1980 | 62 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 7 17'N 13 19'E, alt = 1119m. Reliability: uncheckable. | | | | | | | | | | | |
| 648800: | BANYO | CAMEROON | 6.7N | 11.8E | | | | 1909-1973 | 61 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 6 47'N 11 49'E, alt = 1110m. Reliability: uncheckable. | | | | | | | | | | | |
| 648810: | TIBATI | CAMEROON | 6.5N | 12.6E | | | | 1951-1960 | 61 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 6 29'N 12 36'E, alt = 874m. Reliability: uncheckable. | | | | | | | | | | | |
| 648820: | MEIGANGA | CAMEROON | 6.5N | 14.4E | | | | 1951-1960 | 61 | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 6 32'N 14 22'E, alt = 1027m. Reliability: uncheckable. | | | | | | | | | | | |
| 648930: | KOUNDAJA | CAMEROON | 5.6N | 10.8E | 1210m | 1951-1979 | 62 | | | | |
| Sources: | All | | | | | | | | | | |
| Notes: All: 1/2(max + min). 1951-1960; 5 37'N 10 45'E, alt = 1217m. Reliability: uncheckable. | | | | | | | | | | | |

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-------|-----------|-----------------------------------------------------------------------------------------------------------|---------|---------|-------------|----------|-------|-------|-----------|-----------|----|
| 649000: | TOKO | CAMEROON | 5.5N | 12.3E | 1932-1976 | 62 | 649310: | BATOURI | CAMEROON | 4.4N | 14.4E | 656m | 1951-1979 | 62 | |
| Sources: | All | | | | Sources: | All | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 5 33'N 12 22'E, alt = 1031m. Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 4 25'N 14 24'E, alt = 655m. Reliability: uncheckable. | | | | | | | | | |
| 649010: | BETARE-OYA | CAMEROON | 5.6N | 14.1E | 1951-1960 | 61 | 649410: | EDEA | CAMEROON | 3.8N | 10.1E | | 1951-1960 | 61 | |
| Sources: | All | | | | Sources: | All | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 5 36'N 14 04'E, alt = 804m. Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 3 46'N 10 04'E, alt = 31m. Reliability: uncheckable. | | | | | | | | | |
| 649100: | DOUALA | CAMEROON | 4.0N | 9.7E | 13m | 1885-1979 | 60 | 649420: | ESEKA | CAMEROON | 3.6N | 10.7E | | 1951-1960 | 61 |
| Sources: | All, A58, A96 | | | | Sources: | All | | | | | | | | | |
| Notes: | All: Alt; 13m. Means of 1/2(daily max + daily min). A58: No details available. A96: Means of 1/3(07 + 14 + 21). Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 3 37'N 10 44'E, alt = 399m. Reliability: uncheckable. | | | | | | | | | |
| 649110: | NKONGSAMBA | CAMEROON | 5.0N | 9.9E | 821m | 1951-1970 | 10 | 649500: | YAOUNDE | CAMEROON | 3.9N | 11.5E | 760m | 1889-1979 | 60 |
| Sources: | All | | | | Sources: | All, A96 | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 4 57'N 9 56'E, alt = 877m. Reliability: compared with 649100 for the years 1951-1970. | | | | Notes: | All: Alt; 760m. Means of 1/2(daily max + daily min). A96: No details available. Reliability: uncheckable. | | | | | | | | 133 | |
| 649130: | NGAMBE | CAMEROON | 4.3N | 10.6E | | 1951-1960 | 61 | 649600: | ABONG-MBANG | CAMEROON | 4.0N | 13.2E | | 1951-1960 | 61 |
| Sources: | All | | | | Sources: | All | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 4 16'N 10 36'E, alt = 610m. Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 3 58'N 13 12'E, alt = 694m. Reliability: uncheckable. | | | | | | | | | |
| 649200: | BAPIA | CAMEROON | 4.7N | 11.3E | | 1951-1960 | 61 | 649610: | LOMIE | CAMEROON | 3.2N | 13.6E | | 1951-1960 | 61 |
| Sources: | All | | | | Sources: | All | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 4 44'N 11 15'E, alt = 501m. Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 3 09'N 13 37'E, alt = 624m. Reliability: uncheckable. | | | | | | | | | |
| 649220: | NANGA-EBOKO | CAMEROON | 4.7N | 12.4E | | 1951-1960 | 61 | 649620: | YOKADOUMA | CAMEROON | 3.5N | 15.1E | | 1951-1960 | 61 |
| Sources: | All | | | | Sources: | All | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 4 39'N 12 24'E, alt = 623m. Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 3 31'N 15 06'E, alt = 534m. Reliability: uncheckable. | | | | | | | | | |
| 649300: | BERTOUA | CAMEROON | 4.6N | 13.7E | | 1932-1973 | 61 | 649710: | KRIBI | CAMEROON | 3.0N | 9.9E | 16m | 1951-1979 | 62 |
| Sources: | All | | | | Sources: | All | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 4 36'N 13 44'E, alt = 670m. Reliability: uncheckable. | | | | Notes: | All: 1/2(max + min). 1951-1960; 2 57'N 9 54'E, alt = 18m. Reliability: uncheckable. | | | | | | | | | |

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| 649720: | EBOLONA | CAMEROON | 2.9N | 11.2E | 1951-1960 | 61 | 651340: | JOS | NIGERIA | 9.9N | 8.8E | 1922-1977 | 60 | | |
| Sources: | All | | | | | | Sources: | All | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 2 51'N 11 11'E, alt = 603m. Reliability: uncheckable. | | | | | | Notes: | All: 1951-1960; 1/2(max + min). 9 52'N 8 54'E. 1951-Sept 1955; alt = 1290m. Oct 1955-1960; alt = 1285m. Reliability: uncheckable. | | | | | | | |
| 649740: | SANGMELIMA | CAMEROON | 2.9N | 11.9E | 1934-1973 | 61 | 651670: | YOLA | NIGERIA | 9.2N | 12.4E | 174m | 1906-1976 | 62 | |
| Sources: | All | | | | | | Sources: | All, A98 | | | | | | | |
| Notes: | All: 1/2(max + min). 1951-1960; 2 56'N 11 57'E, alt = 713m. Reliability: uncheckable. | | | | | | Notes: | All: Means of 1/2(max + min). Jan-Aug 1951; alt = 174m, Sept 1951-Aug 1958; alt = 186m, Sept 1958-1960; alt = 174m. A98: Means of 1/2(max + min). 9 12'N 12 30'E, alt = 259m. Reliability: uncheckable. | | | | | | | |
| 650100: | SOKOTO | NIGERIA | 13.0N | 5.2E | 1907-1973 | 60 | 652010: | LAGOS/IKEJA | NIGERIA | 6.5N | 3.4E | 38m | 1892-1977 | 10 1892 | |
| Sources: | All | | | | | | Sources: | All | | | | | | | |
| Notes: | All: 1916-1950; 1/2(max + min). Thermometer screens were changed in 1936 & 1939. 1916-July 1947; 13 02'N 5 15'E, alt = 1000ft. July 1947-1948; 13 01'N 5 16'E, alt = 1150ft. 1951-Sept 1955; alt = 351m. Oct 1953-1960; 13 01'N 5 15'E, alt = 287m. Reliability: uncheckable. | | | | | | Notes: | All: 1892-1920; 1/2(max + min). 1891-Nov 1896; alt = 25ft, Dec 1896-1930 = 22ft. There were small site changes in 1926 & 1929; no corrections were made. 1931-1945; alt = 9ft. In Mar 1945 station moved to aerodrome. 1940-1950; alt = 40m, 1951-1960 = 38m. Reliability: compared with 652360, 653380 & 653440 for the years 1909-1960, 1951-1977 & 1951-1977. | | | | | | | |
| 650460: | KANO | NIGERIA | 12.0N | 8.5E | 476m | 1905-1977 | 10 1905 | 652360: | WARRI | NIGERIA | 5.5N | 5.7E | 1907-1973 | 20 1909 | 134 |
| Sources: | All | | | | | | Sources: | All | | | | | | | |
| Notes: | All: 1/2(max + min). 1905-1950; 12 02'N 8 32'E, alt = 1561ft, Town. The site changed in Aug 1936 but no details are given. 1951-1960; Airport, 12 03'N 8 32'E, alt = 476m. Reliability: compared with 652710 & 610900 for the years 1951-1977 & 1941-1977. | | | | | | Notes: | All: 1909-1950; 1/2(max + min). 5 31'N 5 44'E, alt = 20ft. 1/2(max + min). 1951-1960; Alt = 6m. Some site changes are known to have occurred but no details are given. Reliability: compared with 652640 & 652010 for the years 1909-1960. Corrected for jump 1940/1941. Correction Factors: Stations used: 652640 & 652010. Calculation dates: 1909-1940. Correction dates: 1941-1960. Factors: 11 11 12 15 10 9 14 17 14 14 12 11. | | | | | | | |
| 650820: | MAIDUGURI | NIGERIA | 10.7N | 13.1E | 1909-1977 | 60 | 652500: | PORT HARCOURT | NIGERIA | 4.7N | 7.0E | 1948-1977 | 10 1951 | | |
| Sources: | All | | | | | | Sources: | All | | | | | | | |
| Notes: | All: 1916-1940; 11 51'N 13 05'E, alt = 1162ft. Thermometer screens were replaced in 1936 & 1939. 1930-1935 data suspect because of damage to min thermometer, so data estimated from 09h readings. 1951-1960; 1/2(max + min). Alt = 355m. April 1953-1958; 344m. 1959-1960; 354m. Reliability: uncheckable. | | | | | | Notes: | All: 1951-1960; 1/2(max + min). 4 51'N 7 01'E. 1951-8-Sept 1957; alt = 20m. Oct 1957-1960; alt = 18m. Reliability: compared with 652570 & 652710 for the years 1951-1970 & 1951-1977. | | | | | | | |
| 651010: | ILORIN | NIGERIA | 8.5N | 4.5E | 1906-1977 | 10 1951 | 652570: | ENUGU | NIGERIA | 6.3N | 7.4E | 1916-1977 | 10 1951 | | |
| Sources: | All | | | | | | Sources: | All | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 8 29'N 4 35'E, alt = 287m. Reliability: compared with 653330, 653350 & 653380 for the years 1951-1965, 1951-1977 & 1951-1977. | | | | | | Notes: | All: 1951-1960; 1/2(max + min). 6 28'N 7 33'E. 1951-Mar 1953; alt = 233m. April 1953-1960; alt = 142m. Reliability: compared with 652500 & 652710 for the years 1951-1970 & 1951-1977. | | | | | | | |
| 651230: | MINNA | NIGERIA | 9.6N | 6.5E | 1916-1976 | 10 1951 | 652640: | CALABAR | NIGERIA | 5.0N | 8.3E | 1895-1973 | 60 | | |
| Sources: | All | | | | | | Sources: | All | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 9 37'N 6 32'E, alt = 260m. Reliability: compared with 652710 for the years 1951-1976. | | | | | | Notes: | All: 1895-1920; Alt = 4439ft, 1921-1930 = 40ft. 1931; means of 07h GMT. Alt = 170ft. In Aug 1938 station moved, to Government Hill. After Sept 1948 station moved to the airport. Means of 1/2(max + min). 1951-1960; alt = | | | | | | | |

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| | 63m. Reliability: compared with 652360 for the years 1909-1960. | | | | | |
| 652710: | MAKURDI | NIGERIA | 7.7N | 8.5E | 1943-1977 | 10 1951 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1951-1960; 1/2(max + min). 7 41'N 8 37'E, alt = 97m. Reliability: compared with 652500 & 652570 for the years 1951-1977. | | | | | |
| 653060: | KANDI | BENIN | 11.1N | 2.9E | 1921-1980 | 10 1941 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1941-1960; 1/2(max + min). 11 08'N 2 56'E, alt = 292m. Reliability: compared with 653190, 653330 & 653350 for the years 1941-1980, 1941-1965 & 1951-1980. | | | | | |
| 653190: | WATITINGUE | BENIN | 10.3N | 1.3E | 1921-1980 | 10 1923 |
| Sources: | A1, A158 | | | | | |
| Notes: | A158: 1923-1931; means of 3 daily observations. 1932-1936; 1/2(max + min). No other details available. A1: 1951-1960; 1/2(max + min). Alt = 461m. Reliability: compared with 653060, 653330 & 653350 for the years 1941-1980, 1941-1965 & 1951-1980. | | | | | |
| 653300: | PARAKOU | BENIN | 9.3N | 2.6E | 1921-1980 | 10 1965 |
| Sources: | A1 | | | | | |
| Notes: | A1: No details available. Reliability: compared with 653350 & 653380 for the years 1965-1980. | | | | | |
| 653330: | TCHAOUROU | BENIN | 8.9N | 2.6E | 325m 1941-1965 | 10 1941 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1941-1960; 1/2(max + min). 8 52'N 2 36'E, alt = 327m. Reliability: compared with 651010, 653350 & 653060 for the years 1951-1965, 1951-1965 & 1941-1965. | | | | | |
| 653350: | SAVE | BENIN | 8.0N | 2.4E | 1921-1980 | 10 1951 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1/2(max + min). 1951-1960; 7 59'N 2 26'E, alt = 200m. Reliability: compared with 651010, 653300 & 653380 for the years 1951-1977, 1965-1980 & 1951-1980. | | | | | |
| 653380: | BOHICON | BENIN | 7.2N | 2.1E | 167m 1951-1980 | 10 1951 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1/2(max + min). 1951-1960; 7 10'N 2 04'E, alt = 167m. Reliability: compared with 652010, 653440 & 651010 for the years 1951-1977, 1951-1980 & 1951-1977. | | | | | |
| 653440: | COTONOU | BENIN | 6.3N | 2.4E | 1910-1980 | 20 1951 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1/2(max + min). 1951-1960; 6 21'N 2 23'E, alt = 13m. Reliability: compared with 652010 & 653380 for the years 1951-1977 & 1951-1980. Corrected for a jump 1969/1970. Correction Factors: Stations used: 652010 & 653380. Calculation dates: 1951-1969. Correction dates: 1970-1977. Factors: 1 4 5 4 3 4 4 -2 -1 2 2 2. | | | | | |
| 653520: | MANGO | TOGO | 10.3N | .5E | 1905-1976 | 20 1951 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1951-1960; 1/2(max + min). 10 22'N 0 28'E, alt = 146m. Reliability: compared with 653060 & 653190 for the years 1951-1976. Corrected for a jump 1959/1960. Correction Factors: Stations used: 653060 & 653190. Calculation dates: 1951-1959. Correction dates: 1960-1976. Factors: -3 -4 -4 -7 -7 -6 -6 -8 -5 -1 -3 -2. | | | | | |
| 653610: | SOKODE | TOGO | 8.9N | 1.1E | 1901-1976 | 20 1951 |
| Sources: | A1, A96 | | | | | |
| Notes: | A1: 1951-1960; 1/2(max + min). Alt = 403m. A96: No details available. Reliability: compared with 653520 & 653760 for the years 1951-1976. Corrected for a jump 1963/1964. Correction Factors: Stations used: 653520 & 653760. Calculation dates: 1951-1963. Correction dates: 1964-1976. Factors: 3 -2 2 0 -2 -1 0 1 1 -2 -3 2. | | | | | |
| 653760: | ATAKPAME | TOGO | 7.5N | 1.1E | 1899-1976 | 20 1951 |
| Sources: | A1, A58, A96 | | | | | |
| Notes: | A1: 1951-1976; means of 1/2(mean max + mean min). Alt; 402m. A58: No details available. A96: No details available. Reliability: compared with 653520 & 653610 for the years 1951-1976. Corrected for a jump 1956/1957. Correction Factors: Stations used: 653520 & 653610. Calculation dates: 1951-1956. Correction dates: 1957-1976. Factors: 3 0 1 -3 -4 -10 -7 -4 -10 -6 0 -1. | | | | | 135 |
| 653800: | TABLIBO | TOGO | 6.6N | 1.5E | 52m 1961-1976 | 10 1961 |
| Sources: | A1 | | | | | |
| Notes: | A1: 1/2(max + min). No other details available. Reliability: compared with 653440 for the years 1961-1976. | | | | | |
| 653870: | LOME | TOGO | 6.1N | 1.2E | 1892-1976 | 10 1951 |
| Sources: | A1, A96, A158 | | | | | |
| Notes: | A1: Alt; 20m. Means of 1/2(mean max + mean min). A96: No details available. A158: Means of 3 daily observations. No other details available. Reliability: compared with 654420 for the years 1941-1976. | | | | | |

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| 654180: | TAMALE | GHANA | 9.4N | .8E | 1907-1975 | 10 | 1945 | | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/8(03 + 06 + 09 + ...24). 9 25'N 0 53'W, alt = 184m. Reliability: compared with 654670 & 654720 for the years 1945-1975 & 1944-1975. Comparison shows a jump associated with 1960-1963 data gap. | | | | | | | | | | | |
| 654420: | KUMASI | GHANA | 6.6N | 1.6W | 1921-1980 | 82 | | | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/8(03 + 06 + 09 + ...24). 6 43'N 1 36'W, alt = 293m. Station may have moved in Dec 1946, but no details are given. Reliability: compared with 654670 & 653870 for the years 1941-1975 & 1941-1976. Comparison shows jump 1960, associated with data gaps. | | | | | | | | | | | |
| 654670: | TAKORADI | GHANA | 4.8N | 1.7W | 1939-1975 | 20 | 1941 | | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/8(03 + 06 + 09 + ...24). 4 53'N 1 46'W, alt = 9m. Reliability: compared with 654420 & 654720 for the years 1941-1975. Corrected for a jump 1952/1953. Correction Factors: Stations used: 654420 & 654720. Calculation dates: 1941-1952. Correction dates: 1953-1975. Factors: -4 -4 -2 0 0 0 -2 -1 0 -4 -3 -2. | | | | | | | | | | | |
| 654720: | ACCRA (WAS 654490) | GHANA | 5.6N | .2W | 65m | 1888-1975 | 10 | 1911 | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1888-1926; Alt = 60ft, Apr 1926-1933 = 45ft. Means of 1/2(daily max + daily min). Figures were often unreliable or missing & many values have been computed from readings at 09h & 17h by means of corrections, obtained from several of the most reliable records (see vol 79). 1931-1960; as above. Alt from 1934 = 88ft. Site changes; Jan 1937-June 1938 = 5 32'N 0 12'W, alt = 87ft, July 1938-Dec 1950 = 5 36'N 0 10'W. Alt = 191ft. Since July 1938 instruments have been held at 3 sites, within 500 yards of each other & within 300 yards of the present, 1953, site. Moves occurred in July 1947 & Sept 1949. 1951-1960; 1/8(03 + 06 + 09 + 12 + 15 + 18 + 21 + 24). Alt = 65m. Reliability: compared with 654670 & 655850 for the years 1941-1975 & 1951-1975. | | | | | | | | | | | |
| 655010: | DORI | UPPER VOLTA | 14.0N | | 1920-1979 | 10 | 1951 | | | | | |
| Sources: | All, A158 | | | | | | | | | | | |
| Notes: | A158: 1923-1931; means of 3 daily observations. 1932-1936; 1/2(max + min). No other details available. All: 1951-1960; 1/2(max + min). Alt = 275m. Reliability: compared with 612260 & 655030 for the years 1923-1979 & 1924-1979. | | | | | | | | | | | |
| 655020: | OUGOUA | UPPER VOLTA | 13.9N | 2.4W | 1920-1979 | 61 | | | | | | |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 13 35'N 2 26'W, alt = 324m. Reliability: uncheckable. | | | | | | | | | | | |
| 655030: | OUAGADOUGOU | | | | UPPER VOLTA | 12.3N | 1.5W | | | 1902-1979 | 10 | 1924 |
| Sources: | All, A58, A158 | | | | | | | | | | | |
| Notes: | All: Means of 1/2(max + min). Alt; 1941-1950 = 309m, 1951-1960 = 304m. A58: No details available. A158: 1924-1931; means of 3 daily observations. 1932-1939; 1/2(max + min). No other details available. Reliability: compared with 612260 & 655010 for the years 1924-1979. Comparison shows a jump in early years associated with data gaps. | | | | | | | | | | | |
| 655070: | FADA NGOUR | | | | UPPER VOLTA | 12.2N | .4E | | | 1920-1979 | 20 | 1951 |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 12 04'N 0 21'E, alt = 309m. Site may have changed June 1959, but no details are given. Reliability: compared with 653060 & 653190 for the years 1951-1979. Corrected for a jump 1958/1959. Correction Factors: Stations used: 653060 & 653190. Calculation dates: 1951-1958. Correction dates: 1959-1979. Factors: -3 -5 -5 -4 -6 -9 -11 -5 -5 -6 -7 -2. | | | | | | | | | | | |
| 655100: | BOBO DIOULASSO | | | | UPPER VOLTA | 11.0N | 3.8W | | | 1907-1979 | 10 | 1941 |
| Sources: | All, A158 | | | | | | | | | | | |
| Notes: | A158: 1923-1931; means of 3 daily observations. 1932-1936; 1/2(max + min). No other details available. All: Means of 1/2(max + min). 1941-1950; alt = 38m. 1951-1960 = 467m. Reliability: compared with 612960 & 612970 for the years 1951-1979. 136 | | | | | | | | | | | |
| 655160: | BOROMO | | | | UPPER VOLTA | 11.6N | 2.9W | | | 1922-1979 | 80 | |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 11 40'N 2 55'W, alt = 271m. Site may have changed in July 1954 but no details are given. Reliability: compared with 655100 & 655220 for the years 1951-1979. Record shows jump 1960/1963 associated with data gaps. | | | | | | | | | | | |
| 655220: | GAOUA | | | | UPPER VOLTA | 10.3N | 3.1W | | | 1908-1979 | 20 | 1951 |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1951-1960; 1/2(max + min). 10 20'N 3 11'W, alt = 333m. Reliability: compared with 655100 & 655160 for the years 1951-1979. Corrected for a jump 1970/1971. Correction Factors: Stations used: 655100 & 655160. Calculation dates: 1951-1970. Correction dates: 1971-1979. Factors: -3 -3 -5 -4 -4 -5 -5 -3 -3 -5 -3 -3. | | | | | | | | | | | |
| 655280: | ODIENNE | | | | IVORY COAST | 9.5N | 7.5W | | | 1921-1980 | 10 | 1951 |
| Sources: | All | | | | | | | | | | | |
| Notes: | All: 1/2(max + min). 1941-1950; 9 30'N 7 34'W, alt = 433m. 1951-1960; alt = 432m. Reliability: compared with 655480 for the years 1951-1980. Record shows uncorrected jump 1962/1963. | | | | | | | | | | | |