690 - UNITED KINGDOM (continued)

690E CENTRE : (continued)
Plymouth PL1 3DH
United Kingdom

TELEPHONE: 0752-21371
TERMS : All publications referring to data to be approved by the Director, IMER. Charge for computer time.
DATA HELD: Counts of species and other taxa of phytoplankton and zooplankton from an on-going survey of the north-east Atlantic and the North Sea.

690F CENTRE : University of Cambridge - United Kingdom
1) Godwin Laboratory
   Free School Lane
   Cambridge CB2 3RS
   (see 1) below)
2) Subdept. of Quaternary Research
   Downing Street
   Cambridge CB2 3EA
   United Kingdom

TELEPHONE: 1) 334877 (or 334871 for deep sea sediment core data)
2) 333958
TERMS : Negotiation.
DATA HELD: 1) By Godwin Laboratory:
   - tree ring data;
   - sea level dates;
   - lake sediment dates using carbon-13;
   - pollen assemblage zone dates using carbon-13;
   - deep sea sediment core data.
2) By Subdept. of Quaternary Research:
   - palaeobotanical identifications (pollen and macroscopic plant remains) related to stratigraphy.

690G CENTRE : University of Durham - United Kingdom
1) Meteorological Observatory, Dept. of Geography
2) Quaternary Laboratory, Dept. of Geography
3) Department of Botany
   (see 1,2,3) below)

Science Laboratories
South Road
Durham DH1 3LE
United Kingdom

TELEPHONE: (0385)-64971
TERMS : Charges for media (e.g. magnetic tape) for reasonable academic requests. Charges to commercial applicants fixed by negotiation with possible restrictions.
1) Contact Mr McWhirter at Meteorological Observatory.

PUBLISHED: 1) Durham University Observatory (D.U.O.):
   - D.U.O.(1962-now) Annual Report, including: daily meteorological observations & data on atmospheric pollution;
2) Quaternary Laboratory:
   - Tooley, M.J. 1978: Sea-level Changes, (Oxford);

DATA HELD: 1) Meteorological Observatory, Dept. of Geography:
   - climatological data, 1 land station (Durham) 1801-now.
2) Quaternary laboratory, Dept. of Geography:
   - pollen count sheets;
   - sea-level documentation forms.
3) Dept. of Botany:
   - palynological data spanning 13,000 - 0 BP.

690H CENTRE : RAMMPARC, Dept. of Geography, University of Liverpool - United Kingdom
Radiometric, Mineral Magnetic and Palaeoenvironmental Research Centre (RAMMPARC)
690 - UNITED KINGDOM (continued)

690H CENTRE : (continued)
Liverpool L69 3BX
United Kingdom

TELEPHONE: 051-709-6022 ext. 2719
TERMS: No charges; post-publication only except by arrangement with
author(s).
DATA HELD: Mineral magnetic data from deep sea sediments
(see Robinson, S.G., Physics Earth Planet. Int. 1986).

690I CENTRE : Biology Department, Liverpool Polytechnic - United Kingdom
Byrom Street
Liverpool L3 3AF
United Kingdom

TELEPHONE: 051-207-3581 ext. 2030
TERMS: By negotiation; in due course all data will be available
through the International Tree-Ring Data Bank, University of
Arizona.
DATA HELD: Well-dated tree ring width & wood density data as original
values and indices.
Area is primarily - British Isles,
Europe (available through centre 690D),
Western Himalaya.

690J CENTRE : Botany Dept., Royal Holloway and Bedford New College -
United Kingdom
Egham Hill
Egham, Surrey TW20 0EX
United Kingdom

TELEPHONE: EGHAM 35551 ext. 39
TERMS: Negotiable.
DATA HELD: Tree ring data mainly of recent historical period.

690K CENTRE : Palaeoecology Lab., Geography Dept., Univ. Southampton -
United Kingdom
Southampton S09 5NH
United Kingdom

TELEPHONE: 0703-559122 ext. 3215/2226
TERMS: By negotiation.
DATA HELD: Radiocarbon and palynologically dated macrofossil and
stratigraphic diagrams of ombrotrophic peat.

690L CENTRE : British Antarctic Survey (BAS) - United Kingdom
High Cross
Madingley Road
Cambridge CB3 0ET
United Kingdom
Telex: 817725 BASCAM G Facsimile: 0223 62616

TELEPHONE: 0223 61188
TERMS: By negotiation. Newly assembled data sets are not available
until results have been published by the research workers
concerned. Charges for publications or data handling as
appropriate.

PUBLISHED: Various - see data set descriptions.
DATA HELD: Antarctic glaciological ice cover data;
sub-antarctic glacier surveys & mass balance time series;
antarctic meteorological data since 1944, W 020 - W 070;
OBP data;
surface radiation data;
ozone data.

690M CENTRE : British Museum (Natural History) - United Kingdom
Cromwell Road
London SW7 5BD
United Kingdom

TELEPHONE: 01-589-6323
TERMS: Libraries primarily for use of staff members. Limited
assistance usually given to visiting scientists and members
of the public with specific requirements, on request.

DATA HELD: Staff concerned with Quaternary mammals and man hold a
considerable amount of data on the palaeoclimatic background
of these groups.

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690 - UNITED KINGDOM (continued)

**690N CENTRE**
Grant Institute of Geology, University of Edinburgh -
United Kingdom

- Kings Buildings
- West Mains Road
- Edinburgh

United Kingdom

**TELEPHONE:** (44) 031-667-1081
**TERMS:** By negotiation.
**DATA HELD:** Fluctuations in area of mid-latitude ice sheet through time; from 14,000 BP to 6,500 BP in particular; theoretical reconstruction of mass balance.

**690O CENTRE**
Quaternary Research Unit, City of London Polytechnic -
United Kingdom

- Geography Department
- Calcutta House, Old Castle Street
- London E1 7NT

United Kingdom

**TELEPHONE:** 01-283-1013 ext: 636 or 520
**TERMS:** Restricted access (by application to centre) for unpublished data sets; access to published material is free.
**PUBLISHED:** Catalogues - none.
- Published material - occasional papers series "Quaternary Studies" (Vol.1, 1981; Vol.2, 1986).
- Unpublished material - M. Sc. theses.

**DATA HELD:**
- Palynological: - Scotland - late-glacial and holocene;
  - Wales - late-glacial;
  - N Italy - holocene.
- Dendrochronological:
  - SW Highlands, Scotland - mid-holocene;
  - various sites, Scotland - modern;
  - Brittany, NW France - modern.
- Sea-level data: - NE Scotland - holocene and late-glacial.
- Glacial geomorphological:
  - SW Highlands, Scotland - late-glacial.

**690P CENTRE**
Institute of Hydrology - United Kingdom

Wallingford OX 10 8BB

United Kingdom

**TELEPHONE:** 0491 38800
**TERMS:** Data in publications available for price of yearbooks etc. (see below). All other data and/or statistics and graphical output, derived from the archive, are available at cost - typically 5 pounds per station-retrieval. Price negotiable.
**PUBLISHED:**
- Series: Hydrological Data: UK includes - annual yearbook;
  - 5-year register of stations and statistical summary;
  - special reports;
  - (price typically 15 pounds per volume).

**DATA HELD:** Daily mean flows for about 900 river flow gauging stations; average record length approaching 20 years. Also monthly catchment (basin) average rainfall & runoff & instantaneous monthly maximum flows. Yearbooks include full daily data for about 50 stations & monthly data for a further 150 stations. Separate flood event archive holds hourly rainfall and flow data for about 3000 events.

**690W CENTRE**
European Centre for Medium Range Weather Forecasts -
United Kingdom

(ECMWF)

Shinfield Park

Reading, Berkshire RG2 9AX

United Kingdom

**TELEPHONE:** +44 734 876000
**TERMS:** Nominal charges to cover costs. Data supplied subject to specific conditions. Data cannot be supplied to commercial organisations.

**PUBLISHED:**
- The ECMWF/WMO Global Observations Data Set.
- The ECMWF/WMO Global Analysis Data Set.
- The FGGE Level III B Data Set.
- The WMO/CAS NWP Data Study/Intercomparison Data Set.
<table>
<thead>
<tr>
<th>Centre: 690W 695A</th>
<th>(690 - ) UNITED KINGDOM (continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>690W CENTRE :</td>
<td>(continued)</td>
</tr>
<tr>
<td>PUBLISHED:</td>
<td>The ALPEX Data Set.</td>
</tr>
<tr>
<td>(cont.)</td>
<td>The ECMWF Global TEMP Data Set.</td>
</tr>
<tr>
<td>DATA HELD:</td>
<td>Observational data (1979 to present) - global.</td>
</tr>
<tr>
<td></td>
<td>ECMWF analyses (1979 to present) - global.</td>
</tr>
<tr>
<td></td>
<td>ECMWF forecasts (1979 to present) - global.</td>
</tr>
<tr>
<td></td>
<td>FGGE III B analyses (FGGE year) - global.</td>
</tr>
<tr>
<td></td>
<td>Analyses and forecasts from other centres.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Centre: 695A</th>
<th>(695 - ) YUGOSLAVIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>695A CENTRE :</td>
<td>Federal Hydrometeorological Institute - Yugoslavia</td>
</tr>
<tr>
<td></td>
<td>P.O. Box 604</td>
</tr>
<tr>
<td></td>
<td>Beograd, Bircaninova 6</td>
</tr>
<tr>
<td></td>
<td>Yugoslavia</td>
</tr>
<tr>
<td>TELEPHONE:</td>
<td>646-555</td>
</tr>
<tr>
<td>TERMS :</td>
<td>Charge made for extracting, copying, handling post, packaging, computer time used in transferring data from archives to recipient. The data are supplied for research purposes only and are subject to permission of the corresponding governmental agencies.</td>
</tr>
<tr>
<td>DATA HELD:</td>
<td>Upper-air;</td>
</tr>
<tr>
<td></td>
<td>ALPEX;</td>
</tr>
<tr>
<td></td>
<td>surface climatological for 100 stations on magnetic tape;</td>
</tr>
<tr>
<td></td>
<td>radiation;</td>
</tr>
<tr>
<td></td>
<td>atmospheric composition;</td>
</tr>
<tr>
<td></td>
<td>hydrological.</td>
</tr>
</tbody>
</table>
SECTION 3

Data set descriptions

Descriptions of data sets are arranged according to
a) data category
   and   b) area covered by the set.

These are indicated on the top line of each page. Codes are
given in Section 1 (Tables I, II and III).

The name of the data centre involved is given as the last line
of each data set description.

<table>
<thead>
<tr>
<th>Category</th>
<th>Data Description</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>(upper air data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>101</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>129</td>
</tr>
<tr>
<td>B</td>
<td>(surface climatological data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>155</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>183</td>
</tr>
<tr>
<td>C</td>
<td>(radiation data - surface)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>295</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>301</td>
</tr>
<tr>
<td>D</td>
<td>(maritime &amp; ocean data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>331</td>
</tr>
<tr>
<td></td>
<td>coastal waters</td>
<td>367</td>
</tr>
<tr>
<td>F</td>
<td>(cryosphere data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>381</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>389</td>
</tr>
<tr>
<td>G</td>
<td>(atmospheric composition data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>395</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>399</td>
</tr>
<tr>
<td>H</td>
<td>(hydrological data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>413</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>417</td>
</tr>
<tr>
<td>J</td>
<td>(historical &amp; proxy data)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>global/regional areas</td>
<td>455</td>
</tr>
<tr>
<td></td>
<td>areas within countries</td>
<td>465</td>
</tr>
</tbody>
</table>
CATEGORY: A (Upper-air data)

DATA SETS

GLOBAL/REGIONAL AREAS
<table>
<thead>
<tr>
<th>#0533  (A.01)</th>
<th>GLOBAL ROCKETSONDE DATA (ROCB REPORTS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA:</td>
<td>1 set; computer-readable</td>
</tr>
<tr>
<td>PERIOD:</td>
<td>1974-current</td>
</tr>
<tr>
<td>AREA:</td>
<td>global</td>
</tr>
<tr>
<td>ELEMENTS:</td>
<td>temperature(air) heights of levels wind air density</td>
</tr>
<tr>
<td>ARRANGEMENT:</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA:</td>
<td>data as measured/observed</td>
</tr>
<tr>
<td>FREQUENCY/GRID:</td>
<td>about 1 obs/week</td>
</tr>
<tr>
<td>SITES / LEVELS:</td>
<td>24 stations; 16 constant pressure levels and each whole-km or 5-km level</td>
</tr>
<tr>
<td>MEDIA DETAILS:</td>
<td>magnetic tape, 9-track, 1600 bpi</td>
</tr>
<tr>
<td>VOLUME OF DATA:</td>
<td>1 reel</td>
</tr>
<tr>
<td>QUALITY CONTROL:</td>
<td>automated</td>
</tr>
<tr>
<td>ORIGIN OF DATA:</td>
<td>international</td>
</tr>
<tr>
<td>REMARKS:</td>
<td>reports are limited to data available at ADESS of centre 253A Japan Meteorological Agency (JMA)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#0005  (A.01)</th>
<th>WIND/TEMPERATURE DATA FROM OZONESONDE GLOBAL NETWORK</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA:</td>
<td>1 set; computer-readable,published</td>
</tr>
<tr>
<td>PERIOD:</td>
<td>1960-current</td>
</tr>
<tr>
<td>AREA:</td>
<td>global</td>
</tr>
<tr>
<td>ELEMENTS:</td>
<td>wind temperature(air)</td>
</tr>
<tr>
<td>ARRANGEMENT:</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA:</td>
<td>data as measured/observed</td>
</tr>
<tr>
<td>PUBLISHED AS:</td>
<td>regular summary</td>
</tr>
<tr>
<td></td>
<td>climatological tables</td>
</tr>
<tr>
<td></td>
<td>chronology/time series</td>
</tr>
<tr>
<td>FREQUENCY/GRID:</td>
<td>1 obs/day</td>
</tr>
<tr>
<td>SITES / LEVELS:</td>
<td>about 30 stations</td>
</tr>
<tr>
<td>MEDIA DETAILS:</td>
<td>magnetic tape; machine-printed hard copy</td>
</tr>
<tr>
<td>VOLUME OF DATA:</td>
<td>1 book; 1 magnetic tape (80 - 90,000 card images)</td>
</tr>
<tr>
<td>ORIGIN OF DATA:</td>
<td>international</td>
</tr>
<tr>
<td>PUBLISHED:</td>
<td>see #0073 Cat:G Area:01 Centre:406A (includes this data set)</td>
</tr>
<tr>
<td>CENTRE 406A (1988)</td>
<td>Canadian Climate Centre - Atmospheric Environment Service (AES)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#0454  (A.01)</th>
<th>ROCKETSonde DATA - GLOBAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA:</td>
<td>1 set; computer-readable,microform,published</td>
</tr>
<tr>
<td>PERIOD:</td>
<td>1960-current (see below)</td>
</tr>
<tr>
<td>AREA:</td>
<td>global</td>
</tr>
<tr>
<td>ELEMENTS:</td>
<td>temperature(air) layer thickness wind density pressure(air)</td>
</tr>
<tr>
<td>ARRANGEMENT:</td>
<td>per station profiles</td>
</tr>
<tr>
<td>STATISTICS/DATA:</td>
<td>data as measured/observed</td>
</tr>
<tr>
<td>DETAILS:</td>
<td>derived from measured/observed contains both observed and derived data from rocketsonde and rawinsonde; in station order by year</td>
</tr>
<tr>
<td>FREQUENCY/GRID:</td>
<td>observations taken at non-specified intervals</td>
</tr>
<tr>
<td>SITES / LEVELS:</td>
<td>approximately 42 sites; 35 in N.hemisphere &amp; 7 in S.hemisphere</td>
</tr>
<tr>
<td>MEDIA DETAILS:</td>
<td>magnetic tape (1600 bpi); profiles and data also on microfiche</td>
</tr>
<tr>
<td>VOLUME OF DATA:</td>
<td>39 reels of magnetic tape</td>
</tr>
<tr>
<td>QUALITY CONTROL:</td>
<td>on site and retrospective</td>
</tr>
<tr>
<td>ORIGIN OF DATA:</td>
<td>rocket stations in various countries; tapes mailed to centre 440A</td>
</tr>
<tr>
<td>REMARKS:</td>
<td>primary file (TD-5850) begins with data for 1969; only small amounts of data available 1960-1968; not all sites have data for entire period of record; inventories available</td>
</tr>
<tr>
<td>CENTRE 440A (1986)</td>
<td>National Climatic Data Center (NCDC) NOAA - U.S.A.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#0456  (A.01)</th>
<th>GLOBAL RAWinsonde MONTHLY SUMMARYS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA:</td>
<td>1 set; computer-readable,published</td>
</tr>
<tr>
<td>PERIOD:</td>
<td>1950-current</td>
</tr>
<tr>
<td>AREA:</td>
<td>global</td>
</tr>
<tr>
<td>ELEMENTS:</td>
<td>temperature(air) humidity wind pressure(air) heights of levels</td>
</tr>
<tr>
<td>ARRANGEMENT:</td>
<td>per station</td>
</tr>
</tbody>
</table>
Global/regional areas

#0456 (A.01) : (continued)
STATISTICS/DATA: monthly means/totals
DETAILS: monthly summaries at mandatory levels; filed as TD-9648
FREQUENCY/GRID: monthly summaries based on 1 or 2 obs/day
SITES / LEVELS: variable up to 300
MEDIA DETAILS: magnetic tape, 6250 bpi
VOLUME OF DATA: 2 reels
QUALITY CONTROL: original and retrospective
ORIGIN OF DATA: CLIMAT monthly reports
REMARKS: data were keyed from GTS and mailed reports; network is that
normally received for publication as "Monthly Climatic Data
for the World"; additional quality control done by centre 440C
(National Center for Atmospheric Research - NCAR)

CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0457 (A.01) : GLOBAL RAWINSONDE OBSERVATIONS (1963-1979)
FORM AND MEDIA: 2 sets; computer-readable
PERIOD: 1963-1979 (see below)
AREA: global
ELEMENTS: temperature(air) humidity
wind pressure(air) heights of levels
tropopause
ARRANGEMENT: per station
STATISTICS/DATA: data as measured/observed
DETAILS: contains mandatory and significant levels as transmitted over
global telecommunications system; data are sorted in
chronological order by station; records are of variable length;
TD-5683 covers period Sept 1963 to Dec 1970;
TD-5681 covers period Jan 1971 to Dec 1979
FREQUENCY/GRID: usually 2 obs/day
SITES / LEVELS: approx. 850
MEDIA DETAILS: magnetic tape, 6250 bpi
VOLUME OF DATA: 47 reels
QUALITY CONTROL: minimal at receiving National Meteorological Centre
ORIGIN OF DATA: GTS
REMARKS: data quality questionable, should be used only with additional
controls applied;
southern hemisphere stations begin in May 1966;
early periods of record available for selected areas;
global rawinsonde observations are available beginning in 1960
in different format and in synoptic sort only

CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0458 (A.01) : GLOBAL RAWINSONDE OBSERVATIONS (1973-PRESENT)
FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1973-current (see below)
AREA: global
ELEMENTS: temperature(air) humidity
wind pressure(air) heights of levels
tropopause
ARRANGEMENT: synoptic arrangement
STATISTICS/DATA: data as measured/observed
DETAILS: contains mandatory and significant levels as transmitted over
global telecommunications system
FREQUENCY/GRID: usually 2 obs/day
SITES / LEVELS: approx. 850
MEDIA DETAILS: magnetic tape, 6250 bpi
VOLUME OF DATA: 73 reels
QUALITY CONTROL: minimal at receiving National Meteorological Centre
ORIGIN OF DATA: GTS
REMARKS: continuation of global archive of rawinsonde observations
(TM-6103); formats are not compatible with TD-5681, TD-5683

CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0459 (A.01) : GRIDDED ANALYSES - GLOBAL (BY HEMISPHERE)
FORM AND MEDIA: 3 sets; computer-readable
PERIOD: 1961-current (see below)
AREA: global
northern hemisphere
southern hemisphere

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Global/regional areas

#0459 (A.01) : (continued)

ELEMENTS : temperature(air) heights of levels
wind
tropopause

ARRANGEMENT : grid point analysis

STATISTICS/DATA: derived from measured/observed
horizontal levels

DETAILS : usually in chronological order;
TD-9934: 1961-current, northern hemisphere;
TD-9606: 1973-current, northern hemisphere;
TD-9609: 1976-current, global (by hemisphere)

FREQUENCY/GRID : generally 0000 GMT and 1200 GMT

SITES / LEVELS : global network; 15 levels

MEDIA DETAILS : magnetic tape, 6250 bpi

VOLUME OF DATA : 862 reels

QUALITY CONTROL: performed at receiving National Meteorological Centre;
no retrospective quality control

ORIGIN OF DATA : GTS

REMARKS : methods of numerical analysis differ through the period; most
grids are 65 x 65 hemispheric; no. of levels & parameters may
change during period; TD-9609 also contains tropical zone
analysis using different grid system; some additional gridded
upper-air data available for special time periods

CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0103 (A.01) : GLOBAL ANALYSES OF GEOPOTENTIAL HEIGHT

FORM AND MEDIA : 1 set; computer-readable

PERIOD : 1979-current

AREA : global

ELEMENTS : heights of levels

ARRANGEMENT : grid point analysis

STATISTICS/DATA: fields as analysed

FREQUENCY/GRID : every day; 5x5 horizontal grid 850, 500, 300, 200, 100, 50,
20, 10, 5, 2 and 1 mb level

MEDIA DETAILS : magnetic tape

QUALITY CONTROL: co-located radiosonde/rocket ascents

CENTRE 690A (1988)
Meteorological Office - United Kingdom

#0108 (A.01) : MONTHLY MEANS OF RADIOSONDE DATA - GLOBAL

FORM AND MEDIA : 1 set; computer-readable

PERIOD : 1946-current

AREA : global

ELEMENTS : wind temperature(air) pressure(air)
humidity
temperature(air)

ARRANGEMENT : per station normals

STATISTICS/DATA: monthly means/totals

DETAILS : about 200 stations around the world; monthly means of
radiosonde data; some original data received as monthly;
other monthly means calculated from daily data

FREQUENCY/GRID : 1 or 2 obs/day in original data

SITES / LEVELS : standard levels

MEDIA DETAILS : magnetic tape

VOLUME OF DATA : several tapes

QUALITY CONTROL: internal

ORIGIN OF DATA : CLIMAT TEMP messages / MCDW / international exchanges

CENTRE 690A (1986)
Meteorological Office - United Kingdom

#0111 (A.01) : MET OFFICE LEVEL IIIA ANALYSES FOR FGGE - GLOBAL

FORM AND MEDIA : 2 sets; computer-readable

PERIOD : 1979

AREA : global

ELEMENTS : temperature(air) pressure(air)
wind humidity

ARRANGEMENT : grid point analysis

STATISTICS/DATA: fields as analysed

DETAILS : global numerical analyses for periods:
set-1: 1200 GMT 1 Jan 1979 - 1800 GMT 5 March 1979
set-2: 0000 GMT 1 May 1979 - 0000 GMT 14 June 1979
#0111 (A.01) : (continued)
FREQUENCY/GRID : every 6 hours; modified Kuruha grid with resolution
2 degrees of latitude, variable in longitude
SITES / LEVELS : 10,352 grid points on 11 sigma levels from near-surface to
0.022
MEDIA DETAILS : magnetic tape, 1600 bpi
VOLUME OF DATA : set-1: 18 tapes; set-2: 29 tapes
QUALITY CONTROL: observations checked against background and neighbours
CENTRE 690A (1984)
Meteorological Office - United Kingdom

#0385 (A.01) : GLOBAL WIND AND TEMPERATURE CLIMATOLOGY
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1941-1973 (see below)
AREA : global
ELEMENTS : wind
temperature(air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
standard deviations
means
details : for wind: mean and standard vector deviation;
for temperature: mean and standard deviation;
grid points values derived from various sources;
grid points for each level for each month;
for various periods between 1941 and 1973
FREQUENCY/GRID : 5 deg lat x 10 deg long
SITES / LEVELS : 850, 700, 500, 300, 200, 150, 100 mb
MEDIA DETAILS : magnetic tape, EBCDIC, 9-track
VOLUME OF DATA : 1 tape
ORIGIN OF DATA : based on:
- centre 440C NCAR's "N. and S. hemisphere climatologies"
- centre 440C NCAR's "Sadler tropical wind dataset"
- Tucker's "standard vector deviation of wind"
- Goldie's "standard deviation of temperature"
CENTRE 690A (1984)
Meteorological Office - United Kingdom

#0634 (A.01) : SSU DATA SETS - GLOBAL
FORM AND MEDIA : 1 set; computer-readable, microform, published
PERIOD : 1978-current
AREA : global
ELEMENTS : heights of levels
layer thickness
radiances
ARRANGEMENT : satellite infra-red
profiles
STATISTICS/DATA: derived from measured/observed
PUBLISHED AS : regular summary
DETAILS : 1, 2, 5, 10, 20 mb heights & thicknesses (100 mb base);
SSU + MSU + MIRS radiances
FREQUENCY/GRID : once per day; 5 deg lat/long grid
MEDIA DETAILS : magnetic tape, 6250 bpi, 2400 ft
VOLUME OF DATA : more than 200 tapes
QUALITY CONTROL: manual and automated
ORIGIN OF DATA : NOAA satellites
PUBLISHED : charts of SSU radiiances and 1, 2, 5, 10, 20 mb heights
(north & south hemispheres)
freq./size : quarterly microfiche: Jan 1979 - June 1982 (N. hemisphere)
Jan 1979 - June 1981 (S. hemisphere)

enquiry addr.: Met. O. 20 - centre 690A
CENTRE 690A (1988)
Meteorological Office - United Kingdom

#0639 (A.01) : ECMWF/WMO GLOBAL ANALYSIS DATA SET (1980-CURRENT)
FORM AND MEDIA : 2 sets; computer-readable, published
PERIOD : 1980-current
AREA : global
ELEMENTS : temperature(air)
wind
humidity
vertical velocity
ARRANGEMENT : grid point analysis
<table>
<thead>
<tr>
<th><strong>#0639 (A.01)</strong></th>
<th>(continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STATISTICS/DATA:</strong></td>
<td>derived from measured/observed</td>
</tr>
<tr>
<td><strong>PUBLISHED AS:</strong></td>
<td>charts/atlas</td>
</tr>
<tr>
<td><strong>DETAILS:</strong></td>
<td>for wind: horizontal wind components; for humidity: relative humidity</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID:</strong></td>
<td>daily: 1 data set for 1200 GMT, 1 data set for 0000 GMT</td>
</tr>
<tr>
<td><strong>SITES / LEVELS:</strong></td>
<td>7 levels; 2.5 x 2.5 degree grid</td>
</tr>
<tr>
<td><strong>MEDIA DETAILS:</strong></td>
<td>magnetic tape, 6250 bpi</td>
</tr>
<tr>
<td><strong>VOLUME OF DATA:</strong></td>
<td>6 months per tape</td>
</tr>
<tr>
<td><strong>QUALITY CONTROL:</strong></td>
<td>extensive</td>
</tr>
<tr>
<td><strong>ORIGIN OF DATA:</strong></td>
<td>ECMWF operational analyses</td>
</tr>
<tr>
<td><strong>REMARKS:</strong></td>
<td>extraction service supported</td>
</tr>
<tr>
<td><strong>PUBLISHED:</strong></td>
<td>charts of ms pressure, 500 hpa height, 850 hpa winds, 200 hpa winds at 1200 GMT each day</td>
</tr>
<tr>
<td><strong>freq./size:</strong></td>
<td>published quarterly</td>
</tr>
<tr>
<td><strong>title:</strong></td>
<td>ECMWF Daily Global Analyses</td>
</tr>
<tr>
<td><strong>publisher:</strong></td>
<td>centre 690W; Reading, United Kingdom</td>
</tr>
</tbody>
</table>

**CENTRE 690W (1987)**

European Centre for Medium Range Weather Forecasts - United Kingdom

<table>
<thead>
<tr>
<th><strong>#0640 (A.01)</strong></th>
<th>FGGE LEVEL IIIB DATA SET - GLOBAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FORM AND MEDIA:</strong></td>
<td>1 set: computer-readable, published</td>
</tr>
<tr>
<td><strong>PERIOD:</strong></td>
<td>1978-1979 (see below)</td>
</tr>
<tr>
<td><strong>AREA:</strong></td>
<td>global</td>
</tr>
<tr>
<td><strong>ELEMENTS:</strong></td>
<td>temperature(air) humidity wind pressure(air) heights of levels vertical velocity</td>
</tr>
<tr>
<td><strong>ARRANGEMENT:</strong></td>
<td>grid point analysis</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA:</strong></td>
<td>derived from measured/observed</td>
</tr>
<tr>
<td><strong>PUBLISHED AS:</strong></td>
<td>charts/atlas</td>
</tr>
<tr>
<td><strong>DETAILS:</strong></td>
<td>period is 1st December 1978 to 30th November 1979; for pressure: ms pressure</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID:</strong></td>
<td>6-hourly for SOPs, 12-hourly otherwise; format:FGGE Level IIIB</td>
</tr>
<tr>
<td><strong>SITES / LEVELS:</strong></td>
<td>15 levels; 1.875 x 1.875 degree grid</td>
</tr>
<tr>
<td><strong>MEDIA DETAILS:</strong></td>
<td>magnetic tape, 6250 bpi</td>
</tr>
<tr>
<td><strong>VOLUME OF DATA:</strong></td>
<td>27 tapes</td>
</tr>
<tr>
<td><strong>QUALITY CONTROL:</strong></td>
<td>extensive</td>
</tr>
<tr>
<td><strong>ORIGIN OF DATA:</strong></td>
<td>centre 690W data assimilation system</td>
</tr>
<tr>
<td><strong>REMARKS:</strong></td>
<td>tape copying service supported</td>
</tr>
<tr>
<td><strong>PUBLISHED:</strong></td>
<td>data coverage, height and wind charts at 0000 GMT for each day</td>
</tr>
<tr>
<td><strong>freq./size:</strong></td>
<td>3 months per volume; 4 volumes</td>
</tr>
<tr>
<td><strong>title:</strong></td>
<td>The Global Weather Experiment Daily Global Analyses</td>
</tr>
<tr>
<td><strong>author/editor:</strong></td>
<td>K. Bjorheim, P. Julian, M. Kanamitsu, B. Kallberg, P. Price</td>
</tr>
<tr>
<td><strong>publisher:</strong></td>
<td>centre 690W; 1981; Reading, United Kingdom</td>
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</tbody>
</table>

**CENTRE 690W (1987)**

European Centre for Medium Range Weather Forecasts - United Kingdom

<table>
<thead>
<tr>
<th><strong>#0642 (A.01)</strong></th>
<th>ECMWF GLOBAL TEMP DATA SET (1980-1984)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FORM AND MEDIA:</strong></td>
<td>1 set: computer-readable</td>
</tr>
<tr>
<td><strong>PERIOD:</strong></td>
<td>1980-1984</td>
</tr>
<tr>
<td><strong>AREA:</strong></td>
<td>global</td>
</tr>
<tr>
<td><strong>ELEMENTS:</strong></td>
<td>temperature(air) humidity wind heights of levels tropopause</td>
</tr>
<tr>
<td><strong>ARRANGEMENT:</strong></td>
<td>per station</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA:</strong></td>
<td>data as measured/observed</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID:</strong></td>
<td>as received</td>
</tr>
<tr>
<td><strong>SITES / LEVELS:</strong></td>
<td>all TEMP reports received via the GTS</td>
</tr>
<tr>
<td><strong>MEDIA DETAILS:</strong></td>
<td>magnetic tape, 6250 bpi</td>
</tr>
<tr>
<td><strong>VOLUME OF DATA:</strong></td>
<td>4 months per tape</td>
</tr>
<tr>
<td><strong>QUALITY CONTROL:</strong></td>
<td>checked for internal consistency</td>
</tr>
<tr>
<td><strong>ORIGIN OF DATA:</strong></td>
<td>GTS</td>
</tr>
<tr>
<td><strong>REMARKS:</strong></td>
<td>extraction service supported</td>
</tr>
</tbody>
</table>

**CENTRE 690W (1987)**

European Centre for Medium Range Weather Forecasts - United Kingdom

<table>
<thead>
<tr>
<th><strong>#0177 (A.02)</strong></th>
<th>GRID VALUES OF GEOPOTENTIAL MEAN HEIGHT AND THICKNESS, NORTHERN HEMISPHERE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FORM AND MEDIA:</strong></td>
<td>1 set: computer-readable</td>
</tr>
<tr>
<td><strong>PERIOD:</strong></td>
<td>1946-current (see below)</td>
</tr>
<tr>
<td><strong>AREA:</strong></td>
<td>northern hemisphere zonal belt</td>
</tr>
</tbody>
</table>

- 106 -
Global/regional areas

#0177 (A.02) : (continued)
ELEMENTS : heights of levels
layer thickness
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
daily extremes
5 - day mean
DETAILS : zonal belt: N 20 - N 80
FREQUENCY/GRID : 252 points of 10 degree latitude by 10 degree longitude
SITES / LEVELS : surface, 700, 500, 300, 10 mb,1000-500, 500-100 thickness
MEDIA DETAILS : magnetic tape, EBCDIC, 9-track, 6250 bpi
VOLUME OF DATA : 1 reel
ORIGIN OF DATA : daily data of northern hemisphere - objective analysis
(REMARKS : periods: surface 1950-current for monthly values
1975-current for 5-day values
: 700 mb 1982-current
: 300 mb & 100 mb 1970-current
CENTRE 253A (1984)
Japan Meteorological Agency (JMA)

#0895 (A.02) : FIVE-DAY MONTHLY AND SEASONAL MEAN NORMALS FOR NORTHERN HEMISPHERIC CIRCULATION
FORM AND MEDIA : 1 set; published
PERIOD : 1951-1984
AREA : northern hemisphere
ELEMENTS : pressure\(\text{air}\)
heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
normals
standard deviations
PUBLISHED AS : climatological tables
DETAILS : periods of the data used for the calculation are:
1955-1984 for sea level pressure
1951-1980 for 500mb
1963-1984 for 100mb
FREQUENCY/GRID : 10 deg latitude x 10 deg longitude for northern hemisphere
SITES / LEVELS : sea level pressure, 500mb and 100mb geopotential heights
QUALITY CONTROL: a time series of 73 long-term (30- or 22-year) mean pentad data is expanded into 20 harmonic functions and the first 6 components are summed up to obtain "5-day normals"; monthly & seasonal means are based on the 5-day normals
ORIGIN OF DATA : sea level pressure: data from NCAR (centre 440C) for 1955-1973;
500mb: data from NOAA (centre 440A) for 1951-1956;
100mb: data from NOAA (centre 440A) for 1963-1973
PUBLISHED : 5-day, monthly & seasonal (3-month) mean normals & standard deviations for sea level pressure, 500mb & 100mb geopotential heights for the Northern Hemisphere produced by the Long-range Forecast Division, centre 253A (JMA); in Japanese and English
freq./size : 1 volume
author/editor: centre 253A
publisher : centre 253A; 1986; Tokyo
CENTRE 253A (1987)
Japan Meteorological Agency (JMA)

#0459 (A.02) : GRIDDED ANALYSES - GLOBAL (BY HEMISPHERE)
see pages Cat: A Area: 01 (centre 440A, data set #0459)

#6014 (A.02) : NMC GRID ANALYSES SEA LEVEL & UPPER AIR - NORTHERN HEMISPHERE
FORM AND MEDIA : 3 sets; computer-readable
PERIOD : 1963-current
AREA : northern hemisphere
ELEMENTS : temperature\(\text{air}\)
pressure\(\text{air}\)
heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
FREQUENCY/GRID : 2 obs/day; NMC 47x51 octogonal grid

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#0014 (A.02) : (continued)
SITES / LEVELS : surface, 850, 700, 500, 400, 300, 250, 200, 150, 100, 70, 50,
30, 10 mb level
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data sets 383, 384, 385
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0016 (A.02) : DEW-POINT & NEPHO-ANALYSES - UPPER AIR - NORTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1963-1969
AREA : northern hemisphere
ELEMENTS : humidity
cloud
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
DETAILS : for humidity: dew point
FREQUENCY/GRID : 2 obs/day
SITES / LEVELS : dew points at 850, 700, 500, 400 mb levels
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data set 397
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0017 (A.02) : LOWER STRATOSPHERE CLIMATOLOGY OF HEIGHTS- NORTHERN HEMISPHERE
FORM AND MEDIA : 2 sets; computer-readable, microform, published, original
PERIOD : 1950-current (see below)
AREA : northern hemisphere
ELEMENTS : wind
temperature(air)
heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
DETAILS : zonal and meridional components of wind measurements by
balloon, rocket, satellite
SITES / LEVELS : 100, 50, 30, 10 mb levels; daily values for 50 and 30 mb
levels from 1973
MEDIA DETAILS : charts, maps, film, microfilm, magnetic tape
VOLUME OF DATA : 1 tape; 2 atlas volumes; 5,000 frames of microfilm
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data sets 405, 440
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0018 (A.02) : SEA LEVEL PRESSURE, HEIGHT AND TEMPERATURE DATA - NORTHERN HEMISPHERE
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1955-1960 (see below)
AREA : northern hemisphere
ELEMENTS : temperature(air)
pressure(air)
heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
DETAILS : data for 100 mb level and above: 1957-1959
FREQUENCY/GRID : NMC STD 47x51 grid
SITES / LEVELS : 700, 500, 300, 250, 200, 100, 50, 30 mb levels
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data sets 422, 423
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0019 (A.02) : STRATOSPHERIC TEMPERATURE & HEIGHT DATA - NORTHERN HEMISPHERE
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1956-current
AREA : northern hemisphere
ELEMENTS : temperature(air)
heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
Global/regional areas

#0019 (A.02) : (continued)
FREQUENCY/GRID : 10x10 degree grid from German hand-analysed maps
SITES / LEVELS : 100, 50, 30, 10, 5 mb levels
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data sets 428, 429
CENTRE 446C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0020 (A.02) : 300 MB HEIGHTS - NORTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1950-1957
AREA : northern hemisphere
ELEMENTS : heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA : data as measured/observed
DETAILS : derived from USAF and WBAN chart values read to nearest 100 ft
FREQUENCY/GRID : 1 obs/day; 5 deg lat x 5 deg long grid
SITES / LEVELS : 300 mb level
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : one tape
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data set 492
CENTRE 446C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0021 (A.02) : UPPER-AIR HUMIDITY ANALYSIS FOR NORTHERN HEMISPHERE
FORM AND MEDIA : 6 sets; computer-readable
PERIOD : 1973-current
AREA : northern hemisphere
ELEMENTS : wind: pressure (air), humidity, vertical velocity
ARRANGEMENT : grid point analysis
STATISTICS/DATA : derived from measured/observed
DETAILS : relative humidity for layers: surface - 900 mb, 1000 - 666 mb, 666 - 333 mb; vertical velocity at 850, 500, 200 mb levels; zonal and meridional wind components at 8 levels between 850 and 100 mb; analysis of tropopause pressure
FREQUENCY/GRID : 2 obs/day; 47x51 octagonal grid
MEDIA DETAILS : magnetic tape
REMARKS : NEDRES (interim 1982) data sets 530, 531, 532, 536, 537, 539
CENTRE 446C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0022 (A.02) : UPPER-AIR DATA FOR NORTHERN HEMISPHERE
FORM AND MEDIA : 18 sets; computer-readable
PERIOD : 1962-1972 (see below)
AREA : northern hemisphere
ELEMENTS : wind: temperature (air), pressure (air), humidity, heights of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA : derived from measured/observed
DETAILS : 500 mb heights and vertical motion from 1958; relative humidity for 1000-500 mb layer (1968-1972); surface pressure and temperature (1965-1972)
FREQUENCY/GRID : 2 obs/day; NMC standard 47x51 octagonal grid
SITES / LEVELS : data for 16 levels between 1000 and 10 mb
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : international
CENTRE 446C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0023 (A.02) : SEA LEVEL PRESSURE AND 700 MB HEIGHT AND TEMPERATURE - NORTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1947-1967
AREA : northern hemisphere
ELEMENTS : temperature (air)
Global/regional areas

#0023 (A.02) : (continued)

ELEMENTS : pressure(air)

(cont.) heights of levels

ARRANGEMENT : horizontal levels

STATISTICS/DATA: data as measured/observed

FREQUENCY/GRID : 2 obs/day; 5 deg lat x 10 deg long squares

MEDIA DETAILS : magnetic tape

ORIGIN OF DATA : international

REMARKS : NEDRES (interim 1982) data set 421

CENTRE 440C (1987)

National Center for Atmospheric Research (NCAR) – U.S.A.

#0231 (A.02) : RADIOSONDE DATA – NORTHERN HEMISPHERE AND AUSTRIA

FORM AND MEDIA : 1 set; computer-readable, original

PERIOD : 1952-current (see below)

AREA : northern hemisphere

ELEMENTS : temperature(air) humidity

wind

heights of levels

ARRANGEMENT : per station

STATISTICS/DATA: data as measured/observed

FREQUENCY/GRID : 2 obs/day

SITES / LEVELS : 368 stations; levels up to 100 hpa

MEDIA DETAILS : magnetic tape, 9-track, 1600 bpi

VOLUME OF DATA : approx. 100 reels

QUALITY CONTROL: yes

ORIGIN OF DATA : international

REMARKS : Vienna radiosonde data for 1952-1973; other data from 1974

CENTRE 605A (1987)

Zentralanstalt für Meteorologie und Geodynamik – Austria

#0245 (A.02) : GRID POINT ANALYSES – NORTHERN HEMISPHERE

FORM AND MEDIA : 1 set; computer-readable

PERIOD : 1963-1980 (see below)

AREA : northern hemisphere

ELEMENTS : temperature(air) humidity

heights of levels

ARRANGEMENT : grid point analysis

STATISTICS/DATA: derived from measured/observed

DETAILS : humidity and temperature at the surface since 1975

FREQUENCY/GRID : 2 obs/day; octagonal grid NMC 47x51

SITES / LEVELS : 1000, 850, 700, 500, 300, 200, 100 hpa

MEDIA DETAILS : magnetic tape, 6250 bpi

VOLUME OF DATA : 18 tapes

ORIGIN OF DATA : international

CENTRE 625A (1984)

Direction de la Météorologie – France

#0079 (A.02) : UPPER-AIR DATA OF NORTHERN HEMISPHERE

FORM AND MEDIA : 1 set; computer-readable

PERIOD : 1966-current

AREA : northern hemisphere

ELEMENTS : wind temperature(air) pressure(air)

ARRANGEMENT : synoptic arrangement

STATISTICS/DATA: data as measured/observed

FREQUENCY/GRID : 4 obs/day

MEDIA DETAILS : magnetic tape, 9-track

VOLUME OF DATA : 90 tapes

QUALITY CONTROL: quality control flags

REMARKS : international exchange (GTS available)

CENTRE 629A (1984)

Deutscher Wetterdienst, Zentralamt Offenbach – Federal Republic of Germany

#0081 (A.02) : GRID-POINT ANALYSIS COVERING NORTHERN HEMISPHERE

FORM AND MEDIA : 1 set; computer-readable

PERIOD : 1966-current (see below)

AREA : northern hemisphere

ELEMENTS : temperature(air) pressure(air) humidity geopotential

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Global/regional areas

---

#0081 (A.02) : (continued)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
DETAILS : humidity available from 1977
SITES / LEVELS : levels: surface, 850, 700, 500, 300, 200, 100, 70, 50 hPa
MEDIA DETAILS : magnetic tape, 9-track
VOLUME OF DATA : 50 tapes
ORIGIN OF DATA : international
CENTRE 629A (1984)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

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#0361 (A.02) : SATELLITE METEOROLOGICAL DATA - NORTHERN HEMISPHERE
FORM AND MEDIA : group of sets; computer-readable
PERIOD : 1978-current
AREA : northern hemisphere
ELEMENTS : temperature(air) short wave radiation
pressure(air) long wave radiation
precipitable water
ARRANGEMENT : satellite infra-red
STATISTICS/DATA: derived from measured/observed
DETAILS : pressure of upper and lower levels of relative topography;
outgoing earth-reflected(short wave) and emitted(long wave)
radiation
FREQUENCY/GRID : 4 observation periods per day
MEDIA DETAILS : magnetic tape, 9-track
VOLUME OF DATA : 25 tapes
CENTRE 629A (1986)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

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#0311 (A.02) : DAILY VALUES OF 500 MB HEIGHT,1000-500 MB THICKNESS(N.HEMISP)
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1945-1976
AREA : northern hemisphere
ELEMENTS : heights of levels layer thickness
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
SITES / LEVELS : 311 grid points; geographic grid
MEDIA DETAILS : magnetic tape, 9-track, 800 bpi
VOLUME OF DATA : 6 reels
ORIGIN OF DATA : centre 690A (Meteorological Office, United Kingdom)
CENTRE 666A (1984)
Institute of Meteorology and Water Management (IMGW) - Poland

---

#0412 (A.02) : AIRCRAFT OBSERVATIONS - NORTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1978-current
AREA : northern hemisphere
ELEMENTS : temperature(air) wind
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
SITES / LEVELS : about 700/day (observations made by aircraft)
MEDIA DETAILS : magnetic tape, 9-track, 6250 bpi
VOLUME OF DATA : 110 reels
QUALITY CONTROL: horizontal control; limit control
ORIGIN OF DATA : international
CENTRE 675A (1987)
The Swedish Meteorological and Hydrological Institute (SMHI)

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#0413 (A.02) : RADIOSONDE DATA - NORTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1965-current
AREA : northern hemisphere
ELEMENTS : temperature(air) humidity
pressure(air) heights of levels
wind
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : TEMP: 2 obs/day; pilot: 4 obs/day
SITES / LEVELS : TEMP: about 600; pilot: about 300
MEDIA DETAILS : magnetic tape, 9-track, 6250 bpi
#0413 (A.02) : (continued)
VOLUME OF DATA: 120 reels
QUALITY CONTROL: hydrostatic control; internal consistency
ORIGIN OF DATA: international
CENTRE 675A (1987)
The Swedish Meteorological and Hydrological Institute (SMHI)

#0376 (A.02) : FREE ATMOSPHERE PRESSURE FIELD (MONTHLY MEANS) - N. HEMISPHER. GRID
FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1957-1971
AREA: northern hemisphere
ELEMENTS: pressure (air)
ARRANGEMENT: grid point analysis
STATISTICS/DATA: monthly means/totals derived from measured/observed
FREQUENCY GRID: 5 deg x 10 deg N. hemisphere grid
MEDIA DETAILS: magnetic tape
VOLUME OF DATA: 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0383 (A.02) : HIGH PLANETARY FRONTAL ZONE (HPFZ) PARAMETERS - N. HEMISPHERE
FORM AND MEDIA: 5 sets; computer-readable
PERIOD: 1944-1977 (see below)
AREA: northern hemisphere
ELEMENTS: HPFZ parameters
ARRANGEMENT: synoptic arrangement horizontal levels
STATISTICS/DATA: monthly means/totals derived from measured/observed anomalies
DETAILS: 5 data sets:
1) 1962 - 1977 length of HPFZ at pressure level 500 mb for 8 natural synoptic periods
2) 1944 - 1976 degree of zonality of HPFZ at pressure level 500 mb (6 sectors)
3) 1949 - 1977 intensity and intensity anomalies of HPFZ at pressure level 500 mb (12 sectors)
4) 1962 - 1977 forms of high pressure field for natural synoptic periods (500 mb, 6 sectors)
5) 1959 - 1977 monthly means of curvature degree, length and latitude (averaged for a hemisphere) of characteristic HPFZ isotypse at pressure levels 500 mb and 100 mb
FREQUENCY GRID: data set 1) 5-7 days of each calendar month;
2) to 5): per month
MEDIA DETAILS: magnetic tape
VOLUME OF DATA: 1 tape; 5 files (1 file per data set)
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0109 (A.02) : MET OFFICE (MET. 0.13) GRID POINT DATA - N. HEMISPHERE
FORM AND MEDIA: 7 sets; computer-readable
PERIOD: 1873-current
AREA: northern hemisphere
ELEMENTS: pressure (air)
ARRANGEMENT: grid point analysis layer thickness circulation heights of levels
STATISTICS/DATA: normals monthly means/totals
DETAILS: in belt N 15 - N 90, 5 deg lat x 10 deg long grid point values of msl pressure, 1000 - 500 mb thickness, 500 mb height
FREQUENCY GRID: daily to yearly values
MEDIA DETAILS: magnetic tape
VOLUME OF DATA: varies according to period
QUALITY CONTROL: as in meteorological operational analysis
ORIGIN OF DATA: Meteorological Office operational analysis
REMARKS: earlier data extracted from charts or obtained from U.S.A. & Fed. Rep. of Germany
CENTRE 698A (1988)
Meteorological Office - United Kingdom
Global/regional areas

#0641 (A.02) : WMO/CAS NWP DATA STUDY/INTERCOMPARISON DATA SET - N. HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable, published
PERIOD : 1979-current
AREA : northern hemisphere
ELEMENTS : pressure(air) heights of levels precipitable water
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
PUBLISHED AS : regular summary
DETAILS : analyses and forecasts from 6 participating centres; results & summaries have been published yearly by the Finnish Meteorological Service
FREQUENCY/GRID : 1200 GMT and/or 0000 GMT analyses; forecasts for 24, 48 ...... 192 hours (as available)
SITES / LEVELS : 4 hemispheric areas: 2 levels
10 regional areas: 2 levels plus precipitation(if available)
2.5 x 2.5 deg grid

#0459 (A.03) : GRIDDED ANALYSES - GLOBAL (BY HEMISPHERE)
see pages Cat: A Area: 01 (centre 440A, data set #0459)

#0210 (A.03) : UPPER-AIR NORMALS AND STANDARD DEVIATIONS FOR S. HEMISPHERE
FORM AND MEDIA : 6 sets; computer-readable
PERIOD : 1972-1982
AREA : southern hemisphere
ELEMENTS : temperature(air) humidity wind height of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: normals derived from measured/observed standard deviations
DETAILS : 10-year monthly normals and standard deviations; 2 sets of 5-year normals and standard deviations; data set runs from September 1972 to August 1982
FREQUENCY/GRID : 2300 GMT
SITES / LEVELS : 8 levels
VOLUME OF DATA : magnetic tape at 6250 bpi (800 and 1600 bpi also available)
QUALITY CONTROL: comparison with manually drawn charts
ORIGIN OF DATA : international
CENTRE 505A (1987)
National Climate Centre, Bureau of Meteorology - Australia

#0211 (A.03) : SOUTHERN HEMISPHERE UPPER-AIR GRID-POINT DATA
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1972-current
AREA : southern hemisphere
ELEMENTS : temperature(air) humidity wind height of levels
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
DETAILS : monthly means at 2300 GMT; daily instantaneous values at 1100 and 2300 GMT are held
Global/regional areas

#0211 (A.03) : (continued)
FREQUENCY/GRID : 47 x 47 half inch grid superimposed on a polar stereographic chart of scale 1:40,000,000 at S 60
SITES / LEVELS : 7 levels
MEDIA DETAILS : magnetic tape at 6250 bpi (800 and 1600 bpi also available)
VOLUME OF DATA : 15 tapes (instantaneous); 1 tape (monthly means)
QUALITY CONTROL : comparison with manually drawn charts
ORIGIN OF DATA : international
REMARKS : in some areas, data not reliable north of S 15
CENTRE 505A (1987)
National Climate Centre, Bureau of Meteorology - Australia

#0080 (A.03) : UPPER-AIR DATA OF SOUTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1979-current
AREA : southern hemisphere
ELEMENTS : wind
temperature(air)
pressure(air)
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 4 obs/day
MEDIA DETAILS : magnetic tape, 9-track
VOLUME OF DATA : 12 tapes
ORIGIN OF DATA : international
CENTRE 629A (1984)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#0597 (A.03) : SATELLITE METEOROLOGICAL DATA - SOUTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1979-current
AREA : southern hemisphere
ELEMENTS : temperature(air)
pressure(air)
precipitable water
short wave radiation
long wave radiation
ARRANGEMENT : satellite infra-red
DETAILS : derived from measured/observed
FREQUENCY/GRID : 4 observation periods per day
MEDIA DETAILS : magnetic tape, 9-track
VOLUME OF DATA : 12 tapes
CENTRE 629A (1986)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#0484 (A.04) : UPPER AIR - TROPICS - ATLANTIC
FORM AND MEDIA : 3 sets; computer-readable, published
PERIOD : 1965-current
AREA : tropical belt
ATLANTIC OCEAN
ELEMENTS : temperature(air)
wind
humidity
heights of levels
tropopause
ARRANGEMENT : profiles
STATISTICS/DATA : data as measured/observed
PUBLISHED AS : scientific experiment report
DETAILS : data are arranged in vertical profiles;
area is S 15 - N 15, W 040 - W 015
FREQUENCY/GRID : 2-4 launches by ships
SITES / LEVELS : 3 research vessels or merchant ships
MEDIA DETAILS : listings or magnetic tape (9-track, 1600/6250 bpi)
VOLUME OF DATA : 3 tapes
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : national
PUBLISHED : data is partly published
title : scientific report (internal), Zwischenber, zum DWD-Proj. SWA/12
publisher : DWD/SWA-M2 (centre 629B); 1985; Hamburg
CENTRE 629B (1987)
Deutscher Wetterdienst, Seewetteramt Hamburg - Federal Republic of Germany
<table>
<thead>
<tr>
<th>#0177 (A.05)</th>
<th>GRID VALUES OF GEOPOTENTIAL MEAN HEIGHT AND THICKNESS, NORTHERN HEMISPHERE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA</td>
<td>2 sets; computer-readable</td>
</tr>
<tr>
<td>PERIOD</td>
<td>1973-current</td>
</tr>
<tr>
<td>AREA</td>
<td>zonal belt</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>wind temperature(air) tropopause</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>grid point analysis</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>derived from measured/observed</td>
</tr>
<tr>
<td>DETAILS</td>
<td>zonal belt: latitude S 48 - N 48</td>
</tr>
<tr>
<td>FREQUENCY/GRID</td>
<td>2 obs/day; NMC 73-23 pt. tropical grid</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>850, 700, 500, 300, 250, 200 mb level; tropopause</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>magnetic tape</td>
</tr>
<tr>
<td>ORIGIN OF DATA</td>
<td>international</td>
</tr>
<tr>
<td>REMARKS</td>
<td>NEDRES (interim 1982) data sets 390, 392</td>
</tr>
<tr>
<td>CENTRE 440C (1987)</td>
<td>National Center for Atmospheric Research (NCAR) - U.S.A.</td>
</tr>
</tbody>
</table>

| #0024 (A.05) | AIRCRAFT WIND OBSERVATIONS ABOVE 28000 FT; TROPICAL ZONE |
| FORM AND MEDIA | 3 sets; computer-readable, published |
| PERIOD | 1960-1973 |
| AREA | zonal belt |
| ELEMENTS | wind |
| ARRANGEMENT | horizontal levels |
| STATISTICS/DATA | monthly means/ totals |
| DETAILS | data as measured/observed climatological tables |
| PUBLISHED AS | monthly means for 5 x 5 deg. squares in zonal belt S 30 - N 45 |
| SITES / LEVELS | data concentrated along major air routes |
| MEDIA DETAILS | magnetic tape |
| VOLUME OF DATA | 2 million observations |
| ORIGIN OF DATA | international |
| REMARKS | NEDRES (interim 1982) data sets 066, 067, 068; monthly mean winds published |
| PUBLISHED title | Sadler, J.C. 1975: The upper tropospheric circulation over the global tropics; University of Hawaii, UHMET 75-05 |
| CENTRE 440C (1987) | National Center for Atmospheric Research (NCAR) - U.S.A. |

| #0025 (A.05) | UPPER-AIR WIND AND TEMPERATURE ANALYSES, TROPICAL BELT |
| FORM AND MEDIA | 1 set; computer-readable |
| PERIOD | 1968-1972 (see below) |
| AREA | zonal belt |
| ELEMENTS | wind temperature(air) |
| ARRANGEMENT | grid point analysis |
| STATISTICS/DATA | derived from measured/observed temperature data start in January 1970; zonal belt: latitude S 48 - N 48 |
| DETAILS | 2 obs/day |
| SITES / LEVELS | 700, 500, 300, 250, 200 mb levels |
| MEDIA DETAILS | magnetic tape |
| ORIGIN OF DATA | international |
| REMARKS | NEDRES (interim 1982) data set 541 |
| CENTRE 440C (1987) | National Center for Atmospheric Research (NCAR) - U.S.A. |

| #1054 (A.07) | SOURCES OF METEOROLOGICAL DATA FOR THE ANTARCTIC |
| FORM AND MEDIA | publication, data set #1054 |
| PERIOD | 1959-current (see below) |
| AREA | Antarctic |
| ELEMENTS | temperature(air) humidity pressure(air) heights of levels tropopause per station |
| ARRANGEMENT | data as measured/observed |

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#9534 (A.07) : (continued)
PUBLISHED AS : regular summary
FREQUENCY/GRID : 1 obs/day (1959-1973); 2 obs/day (1974-current)
SITES / LEVELS : 1 station: Syowa
REMARKS : 1962-1965 missing
PUBLISHED : aerological data at the Antarctic station (Syowa);
in English and Japanese
freq./size: annual
title: Antarctic Meteorological Data
author/editor: JMA (centre 253A)
publisher: centre 253A; Tokyo
CENTRE 253A (1988)
Japan Meteorological Agency (JMA)

#0828 (A.07) : UPPER-AIR DATA FOR AUSTRALIAN REGION
see pages Cat: A Country: 505 (centre 505A, data set #0828)

#0500 (A.07) : RADIOSONDE SOUNDINGS AT GEORGE VON NEUMAYER ANTARCTIC STATION
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1983-current
AREA : Antarctic
ELEcMENTS : wind
ARRANGEMENT : pressure(air)
STATISTICS/DATA : temperature(air)
data as measured/observed
humidity
FREQUENCY/GRID : 1 sounding per day
SITES / LEVELS : soundings generally go beyond 13000 m height;
Georg von Neumayer Antarctic station at S 70, W 008
 MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : Vaisala RS80 radiosondes
CENTRE 629F (1985)
Alfred Wegener Institute for Polar Research - Federal Republic of Germany

#0931 (A.07) : UPPER-AIR DATA AT BRITISH ANTARCTIC SURVEY STATIONS
FORM AND MEDIA : group of sets; computer-readable,original
PERIOD : 1957-current
AREA : Antarctic
ELEcMENTS : temperature(air)
cloud ceiling
wind
pressure(air)
arrangement : heights of levels
tropopause
STATISTICS/DATA : per station
data as measured/observed
FREQUENCY/GRID : standard TEMP/pilot and CLIMAT TEMP messages
data as measured/observed
SITES / LEVELS : 2 upper-air stations
QUALITY CONTROL: yes
CENTRE 699L (1987)
British Antarctic Survey (BAS) - United Kingdom

#1055 (A.10) : RADIOSONDE DATA - NORTH AFRICA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1950-1964
AREA : Africa
ELEcMENTS : temperature(air)
 humidity
 pressure(air)
 wind
 heights of levels
 ARRANGEMENT : per station
 STATISTICS/DATA: data as measured/observed
 FREQUENCY/GRID: daily observations
 SITES / LEVELS: 14 stations in North Africa and the station of Tananarive;
 standard levels and characteristic levels
 MEDIA DETAILS: no
 QUALITY CONTROL: no
 ORIGIN OF DATA: Direction de la Meteorologie, France
 CENTRE 165W (1988)
 Centre AGRHYMET - Niger

#1056 (A.10) : RADIOSONDE DATA - CILSS COUNTRIES - AFRICA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1968-1977

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<table>
<thead>
<tr>
<th>#1056 (A.10)</th>
<th>(continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA</td>
<td>Africa</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>temperature(air) geopotential</td>
</tr>
<tr>
<td></td>
<td>wind stability coefficient</td>
</tr>
<tr>
<td></td>
<td>pressure(air) mixing ratio</td>
</tr>
<tr>
<td></td>
<td>humidity</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>standard deviations</td>
</tr>
<tr>
<td>DETAILS</td>
<td>CILSS countries: Cape Verde, Senegal, Mauritania, Mali, Burkina Faso, Niger, Chad;</td>
</tr>
<tr>
<td></td>
<td>other country: Central African Republic</td>
</tr>
<tr>
<td></td>
<td>monthly observations; means and standard deviations are calculated for temperature, wind, geopotential &amp; mixing ratio</td>
</tr>
<tr>
<td>SITES / GRID</td>
<td>standard levels</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>magnetic tape (files in ASCII, with some documentation)</td>
</tr>
<tr>
<td>QUALITY CONTROL</td>
<td>by ASECNA (centre 172W)</td>
</tr>
<tr>
<td>ORIGIN OF DATA</td>
<td>ASECNA (centre 172W)</td>
</tr>
<tr>
<td>CENTRE</td>
<td>165W (1988)</td>
</tr>
<tr>
<td></td>
<td>Centre AGRHYMET - Niger</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#0526 (A.10)</th>
<th>SUMMARY OF UPPER-AIR RADIOSONDE DATA (ASECNA) - AFRICA</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA</td>
<td>1 set; computer-readable, published, original</td>
</tr>
<tr>
<td>PERIOD</td>
<td>1968-current (see below)</td>
</tr>
<tr>
<td>AREA</td>
<td>Africa</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>temperature(air) humidity</td>
</tr>
<tr>
<td></td>
<td>wind heights of levels</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>monthly means/totals</td>
</tr>
<tr>
<td></td>
<td>derived from measured/observed</td>
</tr>
<tr>
<td>PUBLISHED AS</td>
<td>regular summary yearbook</td>
</tr>
<tr>
<td>DETAILS</td>
<td>data is available for the upper-air stations of Member States of ASECNA</td>
</tr>
<tr>
<td>FREQUENCY/GRID</td>
<td>1 obs/day at 1200 GMT or 2 obs/day at 0000 and 1200 GMT</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>9 radiosonde stations of the ASECNA synoptic network: Abidjan, Bamako, Bangui, Dakar, Douala, N'Djamena, Niamey, Nouadhibou, Tombouctou</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>hard copy for monthly means; magnetic tape for original data</td>
</tr>
<tr>
<td>VOLUME OF DATA</td>
<td>9 books; 4 tapes</td>
</tr>
<tr>
<td>QUALITY CONTROL</td>
<td>semi-automated</td>
</tr>
<tr>
<td>REMARKS</td>
<td>centre also keeps archives (on magnetic tape) of radiosonde observations made during regional or global meteorological experiments (ONA, OFGA, GATE, WAMEX)</td>
</tr>
<tr>
<td>PUBLISHED</td>
<td>freq./size: yearly</td>
</tr>
<tr>
<td></td>
<td>title: ASECNA - Radiosondages - 19.. (year)</td>
</tr>
<tr>
<td></td>
<td>publisher: centre 172W (ASECNA)</td>
</tr>
<tr>
<td>CENTRE</td>
<td>172W (1988)</td>
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<tr>
<td></td>
<td>Agence pour la Sécurité de la Navigation Aérienne en Afrique- Sénégal</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>#0248 (A.10)</th>
<th>UPPER-WIND DATA FOR A NUMBER OF FRENCH-SPEAKING COUNTRIES IN AFRICA</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORM AND MEDIA</td>
<td>1 set; computer-readable</td>
</tr>
<tr>
<td>PERIOD</td>
<td>1940-1957</td>
</tr>
<tr>
<td>AREA</td>
<td>Africa</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>wind</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>data as measured/observed</td>
</tr>
<tr>
<td>DETAILS</td>
<td>Benin, Central African Republic, Cameroon, Congo, Ivory Coast, Gabon, Guinea, Upper Volta, Mali, Mauritania, Niger, Senegal, Chad, Togo</td>
</tr>
<tr>
<td>FREQUENCY/GRID</td>
<td>1 to 8 obs/day</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>40 stations</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>magnetic tape, 6250 bpi</td>
</tr>
<tr>
<td>VOLUME OF DATA</td>
<td>1 reel</td>
</tr>
<tr>
<td>QUALITY CONTROL</td>
<td>no</td>
</tr>
<tr>
<td>CENTRE</td>
<td>625A (1984)</td>
</tr>
<tr>
<td></td>
<td>Direction de la Météorologie - France</td>
</tr>
</tbody>
</table>
### Global/regional areas

#### #0607 (A.10)
**FORM AND MEDIA:** 1 set; computer-readable  
**PERIOD:** 1982-current  
**AREA:**  
- Africa  
- Europe  
- Atlantic Ocean  
**ELEMENTS:** precipitable water  
**ARRANGEMENT:** satellite infra-red  
**STATISTICS/DATA:** derived from measured/observed  
**DETAILS:** area is N 55° - S 55°, W 055° - E 055°; parameter is water vapour in the upper troposphere  
**FREQUENCY/GRID:** 2 obs/day  
**MEDIA DETAILS:** computer compatible magnetic tape, 6250 bpi  
**VOLUME OF DATA:** a few tapes/year  
**QUALITY CONTROL:** manual  
**ORIGIN OF DATA:** METEOSAT CENTRE 629X (1986)  
**European Space Operations Centre, Darmstadt - Federal Republic of Germany**

#### #0171 (A.13)
**FORM AND MEDIA:** 1 set; computer-readable  
**PERIOD:** 1974-current  
**AREA:** South-East Asia area  
**ELEMENTS:** temperature(air)  
**ARRANGEMENT:** per station  
**STATISTICS/DATA:** data as measured/observed  
**DETAILS:** dew-point depression for humidity;  
area is N 00° - N 65°, E 065° - E 165°  
**FREQUENCY/GRID:** 2 obs/day  
**SITES / LEVELS:** standard levels for about 350 stations  
**MEDIA DETAILS:** magnetic tape, 9-track, 1600 bpi  
**VOLUME OF DATA:** 135 reels of 2,400 ft tape  
**QUALITY CONTROL:** no  
**ORIGIN OF DATA:** GTS data  
**CENTRE 238A (1989)**  
**Royal Observatory - Hong Kong**

#### #0172 (A.13)
**FORM AND MEDIA:** 1 set; computer-readable  
**PERIOD:** 1974-current  
**AREA:** South-East Asia area  
**ELEMENTS:** temperature(air), wind, humidity  
**ARRANGEMENT:** grid point analysis  
**STATISTICS/DATA:** derived from measured/observed  
**DETAILS:** dew-point depression for humidity;  
area is N 00° - N 65°, E 065° - E 165°  
**FREQUENCY/GRID:** 5 x 5 degree grid, 2.5 x 2.5 degree grid for selected elements  
**SITES / LEVELS:** standard levels  
**MEDIA DETAILS:** magnetic tape, 9-track, 1600 bpi  
**VOLUME OF DATA:** 70 reels of 2,400 ft tape  
**QUALITY CONTROL:** physical limit check; climatology check  
**CENTRE 238A (1989)**  
**Royal Observatory - Hong Kong**

#### #0104 (A.13)
**FORM AND MEDIA:** 1 set; computer-readable  
**PERIOD:** 1974-current  
**AREA:** South-East Asia area  
**ELEMENTS:** temperature(air), wind, humidity  
**ARRANGEMENT:** per station  
**STATISTICS/DATA:** data as measured/observed  
**DETAILS:** 1 station in Africa, 1 station in Antarctica, 2 in the Indian Ocean, 19 in the Pacific and in the Antilles  

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Global/regional areas

#0247 (A.15) : (continued)
FREQUENCY/GRID : 1 to 4 obs/day
SITES / LEVELS : 23 stations
MEDIA DETAILS : magnetic tape, 6250 bpi
REMARKS : 1 year to 15 years of data depending on the station
CENTRE 625A (1984)
Direction de la Météorologie - France

#0488 (A.15) : UPPER AIR - CARIBBEAN
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1970-current
AREA : Central America/Caribbean area
ELEMENTS : temperature(air), humidity
            wind, pressure(air), heights of levels
            tropopause
ARRANGEMENT : profiles
STATISTICS/DATA : data as measured/observed
DETAILS : data are arranged as vertical profiles
FREQUENCY/GRID : 2-4 launches by ships
SITES / LEVELS : 2 merchant ships
MEDIA DETAILS : listings or magnetic tape (9-track, 1600/6250 bpi)
VOLUME OF DATA : 1 tape
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : national
CENTRE 629B (1985)
Deutscher Wetterdienst, Seewetteramt Hamburg - Federal Republic of Germany

#0004 (A.16) : NORTH AMERICAN UPPER-AIR THERMODYNAMIC ANALYSES
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1963-1977
AREA : North America
ELEMENTS : temperature(air), cloud ceiling
            precipitable water
ARRANGEMENT : grid point analysis
STATISTICS/DATA : derived from measured/observed
DETAILS : area is N 15 - N 90, W 170 - W 050
FREQUENCY/GRID : 2 obs/day; polar stereographic grid; grid length 381 km
SITES / LEVELS : data at 1000, 850, 700, 500 mb
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 disk; 1 magnetic tape
ORIGIN OF DATA : Canada; U.S.A.
CENTRE 406A (1982)
Canadian Climate Centre - Atmospheric Environment Service (AES)

#0587 (A.17) : PROFILE OF TEMPERATURE (SATELLITE DATA) - SW PACIFIC
FORM AND MEDIA : group of sets; computer-readable
PERIOD : 1983-current
AREA : South-West Pacific area
ELEMENTS : temperature(air)
ARRANGEMENT : satellite multichannel profiles
STATISTICS/DATA : derived from measured/observed
DETAILS : for temperature(air): profile;
            for mixing ratio: profile;
            data source is NOAA-TOVS;
            resolution is IR - 17 km, MSU - 100 km
FREQUENCY/GRID : 12 obs/day
MEDIA DETAILS : magnetic tape, 6250 bpi, 9-track, EBCDIC
VOLUME OF DATA : 145 tapes
QUALITY CONTROL : comparison of derived parameters with radiosonde data
ORIGIN OF DATA : direct readout station
CENTRE 505A (1987)
National Climate Centre, Bureau of Meteorology - Australia

#1078 (A.18) : ALPEX AIRCRAFT DATA (NOAA) - EUROPE & MEDITERRANEAN SEA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982 (see below)
AREA : Europe
        Mediterranean and Red Sea
ELEMENTS : temperature(air), pressure(air)
            wind, humidity
ARRANGEMENT : horizontal levels
Global/regional areas

#1978 (A.18) : (continued)
STATISTICS/DATA: data as measured/observed
DETAILS: other elements are also included;
data from several flights during ALPEX SOP (1 March - 30 April 1982) over Europe and Mediterranean Sea;
data is high-resolution (20 to 40 per second) from the gust
probe, as processed by the flight facilities
MEDIA DETAILS: magnetic tape, 9-track, 1600 bpi
VOLUME OF DATA: 15 tapes
QUALITY CONTROL: no
ORIGIN OF DATA: aircraft P-3 from NOAA, Miami, Florida, U.S.A.
CENTRE 440G (1988)
National Oceanographic Data Center (NODC) NOAA - U.S.A.

#1977 (A.18) : ALPEX AIRCRAFT DATA (NCAR) - EUROPE & MEDITERRANEAN SEA
FORM AND MEDIA: inventory; computer-readable,published
PERIOD: 1982 (see below)
AREA: Europe
ELEMENTS: Mediterranean and Red Sea pressure (air)
winds humidity
ARRANGEMENT: horizontal levels
STATISTICS/DATA: data as measured/observed
DETAILS: other elements are also included;
several flights during ALPEX SOP (1 March - 30 April 1982)
over Europe and the Mediterranean Sea
MEDIA DETAILS: magnetic tape, 9-track, 1600 bpi
VOLUME OF DATA: 1) original aircraft data, 1-second resolution:
   A. NOAA Electra: 6 tapes
   B. NOAA P-3: 18 tapes
   C. DFVLR Falcon: 2 tapes;
2) original aircraft data, high-res. (20 to 40 per sec):
   A. NCAR Electra: 14 tapes;
3) level-IIb aircraft data, 1-second resolution,
   validated, quality controlled packed binary format:
   A. NCAR Electra: 5 tapes
   B. NOAA P-3: 4 tapes
   C. DFVLR Falcon: 3 tapes
QUALITY CONTROL: see above
   B. P-3 (NOAA, Miami, Florida, U.S.A.)
PUBLISHED: level-IIb data also stored at WDC-A (centre 440X)
title: ALPEX Aircraft Data Documentation
author/editor: Patrick J. Kennedy, Dean Frey
publisher: NCAR (centre 440C); Boulder, Colorado; 1983
CENTRE 446C (1988)
National Center for Atmospheric Research (NCAR) - U.S.A.

#1979 (A.18) : ALPEX OFFICIAL AIRCRAFT DATA (WDC-A) - EUROPE & MEDITERRANEAN SEA
FORM AND MEDIA: inventory; computer-readable, microform, published
PERIOD: 1982 (see below)
AREA: Europe
ELEMENTS: Mediterranean and Red Sea pressure (air)
winds humidity
ARRANGEMENT: horizontal levels
STATISTICS/DATA: data as measured/observed
DETAILS: other elements are also included;
data from several flights over Europe and the Mediterranean
Sea during ALPEX SOP (1 March - 30 April 1982)
MEDIA DETAILS: magnetic tape, 9-track, 1600 bpi;
2) microfilm of plotted and tabular data
VOLUME OF DATA: 1) level-IIb aircraft data, one-second resolution, validated,
quality-controlled:
   A. NCAR Electra: 5 tapes
   B. NOAA P-3: 4 tapes
   C. DFVLR Falcon: 3 tapes;
2) level-IIb aircraft data, microfilm:
   A. NCAR Electra: 19 reels

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Global/regional areas

#1079 (A.18) : (continued)
VOLUME OF DATA : B. NOAA P-3: 17 reels
(cont.)
C. DFVLR Falcon: 8 reels;
QUALITY CONTROL: see above
B. P-3 (NOAA, Miami, Florida, U.S.A.)
PUBLISHED : data documentation
title : ALPEX Aircraft Data Documentation
author/editor: Patrick J. Kennedy, Dean Frey
publisher : centre 440C; 1983
CENTRE 440X (1988)
World Data Center A for Rockets and Satellites - U.S.A.

#1091 (A.18) : ALPEX RADAR DATA - EUROPE
FORM AND MEDIA : 22 sets; computer-readable
PERIOD : 1982 (see below)
AREA : Europe
ELEMENTS : radar reflectivities of clouds
            radar reflect. of hydrometeors
ARRANGEMENT : in horizontal plane
some 3-dimensionally
STATISTICS/DATA: data as measured/observed
DETAILS : period: ALPEX SOP: 1 March - 30 April 1982
MEDIA DETAILS: see ORIGIN OF DATA; note: not all sets are computer-readable
ORIGIN OF DATA : 22 radar stations:
station          wavelength  operation  storage  remarks
1  Wien (A)     5.7cm       int     a  a
2  Mont Agel (F) 3.2       int     a
3  Hohenpeissenberg (D) 5.3  cnt     a  images
     Szentgotthard (H) 3.2  cnt     a
5  Torino (I)   6.0       IOP     a
6  Milano (I)   3.2       IOP     a  till 31/3
7  Treviso (I)  3.2       IOP     a  till 31/3
8  San Pietro (I) 3.0  IOP     a
9  Brindisi (I) 3.2  IOP     a  till 31/3
10  Trapani (I) 5.7  IOP     a  till 31/3
11  Cagliari (I) 3.2  IOP     a  till 31/3
12  Bucharest (R) 3.2  cnt     a  24 maps/day
13  Cluj (R)     3.2  cnt     a
14  Iasi (R)    3.2  cnt     a  24 maps/day
15  Oradea (R)  3.2  cnt     a  24 maps/day
16  Craiova (R) 3.2  cnt     a  24 maps/day
17  Constanta (R) 3.2  a
18  Timisoara (R) 3.2  cnt     a  24 maps/day
19  La Dole (CH) 5.4  cnt     d
20  Albis (CH)  5.4  cnt     d
21  Belgrad (YU) 3.2  cnt     a
22  Crni Vrh (YU) 10.0 cnt     a

legend: IOP=during ALPEX IOP's (March - April 1982)
cnt=continuous
int=intermittent
a =analog
d =digital
A =Austria
D =Fed. Rep. of Germany
F =France
H =Hungary
I =Italy
R =Romania
CH=Switzerland
YU=Yugoslavia

REMARKS : request data from the National ALPEX Data Centres (NADC's) of
the corresponding countries (contact Meteorological Services -
see centres 605A, 625A, 629A, 639A, 647A, 669A, 676A and 695A)

CENTRES ABOVE (1988)

#1075 (A.18) : ALPEX-MERKUR EXPERIMENT UPPER-AIR DATA - EUROPE
FORM AND MEDIA : 16 sets; computer-readable, published
PERIOD : 1982 (see below)
AREA : Europe
ELEMENTS : temperature(air) pressure(air)
            wind
ARRANGEMENT : per station
profiles
STATISTICS/DATA : data as measured/observed
PUBLISHED AS : case study
scientific experiment report
Global/regional areas

#1075 (A.18) : (continued)
DETAILS : period is: 23 March - 4 April 1982;
area is: NE - Alpine Region
PUBLISHED : Wissenschaftliche Mitteilungen Meteorologisches Institut
No. 48 (1983)
title : MERKUR
author/editor: Freytag and Hennemuth
publisher : centre 629D
CENTRE 629D (1988)
Meteorologisches Institut der Universität München - Fed. Rep. of Germany

#1074 (A.18) : ALPEX - DFVLR MOTORGLIDERS - EUROPE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982 (see below)
AREA : Europe
ELEMENTS : temperature (air)
pressure (air)
humidity
ARRANGEMENT : profiles
STATISTICS/DATA: horizontal levels
data as measured/observed
derived from measured/observed
DETAILS : period is: March 25 to May 5 1982;
area is: Federal Republic of Germany, Austria, Switzerland
FREQUENCY/GRID : 10 Hz (10 frames per second of flight)
SITES / LEVELS : 30 flights from 25 March - 5 May 1982; various sites;
levels from 800 ... 3650 m NN
MEDIA DETAILS : magnetic tape, 6250 bpi
VOLUME OF DATA : 3 tapes
QUALITY CONTROL: manual and automated, routine analysis
ORIGIN OF DATA : 3 motorgliders ASKI6
REMARKS : contact: Dipl.-Phys. Hermann Willeke at centre 629K
CENTRE 629K (1988)

#0607 (A.18) : WATER VAPOUR IN THE UPPER TROPOSPHERE - N55-S55, W055-E055
see pages  Cat: A Area: 10 (centre 629X, data set #0607)

#1080 (A.18) : MIEC CLOUD MOTION VECTORS (WINDS) FOR ALPEX SOP (METEOSAT) - 
EUROPE & MEDITERRANEAN SEA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982 (see below)
AREA : Europe
Mediterranean and Red Sea
ELEMENTS : wind
cloud
ARRANGEMENT : irregularly spaced
STATISTICS/DATA: derived from measured/observed
DETAILS : dates: March 1982: 3rd 1200 GMT, 4th 1200 GMT, 5th 0000 GMT,
6th 0000 GMT, 6th 1200 GMT
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : Meteosat-2
REMARKS : quality not nominal because the relevant images were not
rectified operationally before archiving;
contact: Dr. Brian D. Mason, Head of Meteorology - centre 629X
CENTRE 629X (1988)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#1081 (A.18) : IR IMAGE LOOP OVER ALPEX AREA (METEOSAT) - EUROPE, N.Atlantic
& MEDITERRANEAN SEA
FORM AND MEDIA : 1 set; original
PERIOD : 1982 (see below)
AREA : Europe
North Atlantic Ocean
Mediterranean and Red Sea
ELEMENTS : infra-red radiance
ARRANGEMENT : as viewed from spaceship
STATISTICS/DATA: derived from measured/observed
DETAILS : dates: 3-7 March 1982
MEDIA DETAILS : inserted into the movie METEOSAT-2 WEATHER GO-ROUND
(CDZ Film - Berlin)
ORIGIN OF DATA : Meteosat-2 (ESA)
REMARKS : quality not nominal because the relevant images were not
Global/regional areas

#1081 (A.18) : (continued)
REMARKS : rectified operationally before archiving;
(contin.) contact: Dr. Brian D. Mason, Head of Meteorology - centre 629X
CENTRE 629X (1988)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#1082 (A.18) : ALPEX METEOSAT-2 RAPID SCANNING DATA - EUROPE, N.ATLANTIC & MEDITERRANEAN SEA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982 (see below)
AREA : Europe
 North Atlantic Ocean
 Mediterranean and Red Sea
ELEMENTS : raw/infra-red/visible radiance
ARRANGEMENT : in pixels
STATISTICS/DATA : data as measured/observed
DETAILS : raw radiances/images:600 lines each
3 limited scans per slot
2 consecutive slots used (20, 21 & 32, 33);
dates: 4 March, 5 March, 16 March, 18 March 1982;
area : N 38 - N 50, W 005 - W 020

ORIGIN OF DATA : Meteosat-2
REMARKS : contact: Dr. Brian D. Mason, Head of Meteorology - centre 629X
CENTRE 629X (1988)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#1083 (A.18) : SPECIAL METEOSAT PHOTOGRAPHIC ARCHIVE FOR ALPEX SOP (ESA) - EUROPE, N.ATLANTIC & MEDITERRANEAN SEA
FORM AND MEDIA : 1 set; original
PERIOD : 1982 (see below)
AREA : Europe
 North Atlantic Ocean
 Mediterranean and Red Sea
ELEMENTS : infra-red & visible radiance
ARRANGEMENT : as viewed from spaceship
STATISTICS/DATA : data as observed
DETAILS : hard copy images;
period: ALPEX SOP: 1 March - 30 April 1982;
area : approx. W 010 - E 020, N 30 - northern limit of Meteosat image
FREQUENCY/GRID : each negative contains the following information for the nominal imaging times indicated:
sheet 1: water vapour -0000, 0300, 0600, 0900 GMT
visible -0600, 0730, 0900, 1030 GMT
infrared -0000, 0130, 0300, 0430, 0600, 0730, 0900, 1030 GMT
sheet 2: water vapour -1200, 1500, 1800, 2100 GMT
visible -1200, 1330, 1500, 1630 GMT
infrared -1200, 1330, 1500, 1630, 1800, 1930, 2100, 2230 GMT

MEDIA DETAILS : 16 individual photographs are combined on a single negative;
size of each negative and print is 40 x 40 cm; size of each individual image on the composite sheet is 8.5 x 7.5 cm

ORIGIN OF DATA : Meteosat 2
REMARKS : data availability: due to radiometer problems many images were lost during ALPEX SOP; whenever a nominal image slot is not available it has been replaced as far as possible with data from a nearby slot;
cost of contact prints: (40 x 40 cm): DM 20,- per print,
individual prints (20 x 20 cm): DM 77,- per print;
contact: Dr. Brian D. Mason, Head of Meteorology - centre 629X
CENTRE 629X (1988)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#1084 (A.18) : SPECIAL METEOSAT DIGITAL ARCHIVE FOR ALPEX SOP - EUROPE, N.ATLANTIC & MEDITERRANEAN SEA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982 (see below)
AREA : Europe
 North Atlantic Ocean
 Mediterranean and Red Sea
ELEMENTS : infrared & visible radiance
ARRANGEMENT : in pixels

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#1084 (A.18) : (continued)
STATISTICS/DATA: data as measured/observed
DETAILS : digital images;
  period: ALPEX SOP: 1 March - 30 April 1982;
  area: approx. W 010 - E 020, N 30 - northern limit of
  Meteosat image
FREQUENCY/GRID : nominally, every 30 minutes but for a large part of the ALPEX
  SOP this was severely reduced due to radiometer problems
  area: recording code is EBCDIC, records are fixed length unblocked
VOLUME OF DATA : 1 magnetic tape per calendar day with 2 files:
  - 1st file contains slots 1-24 (0300-1200 GMT)
  - 2nd file contains slots 25-48 (1230-2400 GMT)
ORIGIN OF DATA : Meteosat 2 (Visible, IR and Water vapour)
REMARKS : costs: DM 100.- per tape;
  contact: Dr. Brian D. Mason, Head of Meteorology - centre 629X
CENTRE 629X (1988)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#0411 (A.18) : NUMERICAL ANALYSIS - UPPER-AIR DATA (EUROPE)
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1967-current
AREA : Europe
ELEMENTS : temperature(air) pressure(air) wind humidity
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
FREQUENCY/GRID : 4 analyses/day
SITES / LEVELS : up to 10 standard levels
MEDIA DETAILS : magnetic tape, 9-track, 6250 bpi
VOLUME OF DATA : 420 reels
QUALITY CONTROL: internal consistency; hydrostatic check
ORIGIN OF DATA : international
CENTRE 675A (1987)
The Swedish Meteorological and Hydrological Institute (SMHI)

#1095 (A.18) : ALPEX HIGH-RESOLUTION AIMS (AIRCRAFT) DATA - EUROPE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1981-1982 (see below)
AREA : Europe
ELEMENTS : temperature(air) pressure(air) wind technical parameters
ARRANGEMENT : horizontal levels per flight
STATISTICS/DATA: data as measured/observed
DETAILS : period: ALPEX AOP (1 Sept. 1981 - 31 August 1982)
FREQUENCY/GRID : variable: between continuous and 400 s
SITES / LEVELS : Alpine area covered: N 45.5 - N 47.5, E 006.3 - E 015.5
MEDIA DETAILS : magnetic tapes
VOLUME OF DATA : 150 megabytes packed data, 500 megabytes unpacked
QUALITY CONTROL: limited checks
ORIGIN OF DATA : Swissair
CENTRE 676A (1988)
Schweizerische Meteorologische Anstalt - Switzerland

#0104 (A.18) : AIRCRAFT (AIDS) DATA - EUROPE,N.ATLANTIC,SOME SE ASIA,AUSTRALIA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1978-1979 (see below)
AREA : Europe
ELEMENTS : wind temperature(air)
ARRANGEMENT : per flight
STATISTICS/DATA: data as measured/observed
DETAILS : wind: ins derived;
  temperature: static air temp (also total air temp & Mach no.);
FREQUENCY/GRID : area mostly: Europe (also N. Atlantic, some SE Asia, Australia)
  some high resolution data (1 frame per 4 seconds of flight);
  rest at lower resolution (1 frame per 400 seconds of flight)
SITES / LEVELS : 370 flights on 19 June 1978 and 28 January - 4 February 1979
MEDIA DETAILS : magnetic tape, 9-track, EBCDIC, 6250 bpi
VOLUME OF DATA : 6 tapes

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#0104 (A.18) : (continued)
QUALITY CONTROL: manual and automated
ORIGIN OF DATA: B-747, DC-10, Concorde aircraft from 4 European airlines
CENTRE 690A (1988)
Meteorological Office - United Kingdom

#0635 (A.18) : TEMPERATURE & HUMIDITY PROFILES (HERMES LOCAL AREA SOUNDINGS)
- EUROPE AND N. ATLANTIC OCEAN
FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1984-current
AREA: Europe
ELEMENTS: temperature(air) humidity
ARRANGEMENT: satellite multichannel profiles
STATISTICS/DATA: derived from measured/observed DETAILS: temperature and humidity profiles with levels:
for temperature: 10, 20, 30, 50, 70, 100, 150, 200, 250, 300, 400, 500, 700, 850, 1000 mb;
for humidity: 300, 400, 500, 700, 850, 1000 mb
FREQUENCY/GRID: 80 km spacing (approx.) between data
MEDIA DETAILS: magnetic tape, 6250 bpi
VOLUME OF DATA: 1 tape per month
QUALITY CONTROL: automated
CENTRE 690A (1986)
Meteorological Office - United Kingdom

#0644 (A.18) : ALPEX DATA SET (SURFACE CLIMATOLOGICAL & UPPER AIR) - OUTER EXPERIMENTAL AREA
see pages Cat: B Area: 18 (centre 690W, data set #0644)

#0644 (A.19) : ALPEX DATA SET (SURFACE CLIMATOLOGICAL & UPPER AIR) - OUTER EXPERIMENTAL AREA
see pages Cat: B Area: 18 (centre 690W, data set #0644)

#0484 (A.20) : UPPER AIR - TROPICS - ATLANTIC
see pages Cat: A Area: 04 (centre 629B, data set #0484)

#0598 (A.20) : UPPER AIR DATA - ATLANTIC OCEAN
FORM AND MEDIA: 4 sets; computer-readable, original
PERIOD: 1983-current (see below)
AREA: Atlantic Ocean
ELEMENTS: temperature(air) pressure(air) wind humidity
ARRANGEMENT: profiles
STATISTICS/DATA: data as measured/observed DETAILS: area is N 50 - S 60, W 060 - W 010;
data are collected each year during RV Polarstern's transit from Bremerhaven (Federal Republic of Germany) to Antarctica;
data collection will be continued in future
FREQUENCY/GRID: 2 soundings/day equivalent to approx. 1 deg latitude spacing
SITES/LEVELS: soundings generally go beyond 25,000 m height
MEDIA DETAILS: magnetic tape; listings available upon request
VOLUME OF DATA: 1 tape (to date)
QUALITY CONTROL: data corrected for obvious misreadings and sensor malfunctions
ORIGIN OF DATA: VAISALA RS80 radiosonde, national data
CENTRE 629F (1986)
Alfred Wegener Institute for Polar Research - Federal Republic of Germany

#0607 (A.20) : WATER VAPOUR IN THE UPPER TROPOSPHERE - N55-S55, W055-E055
see pages Cat: A Area: 10 (centre 629X, data set #0607)

#0486 (A.21) : UPPER AIR - JASIN - N. ATLANTIC
FORM AND MEDIA: 1 set; computer-readable, published
PERIOD: 1978-current
AREA: North Atlantic Ocean
ELEMENTS: temperature(air) humidity
w ind
pressure(air)
heights of levels
ARRANGEMENT: profiles
STATISTICS/DATA: data as measured/observed
PUBLISHED AS: scientific experiment report

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### Global/Regional Areas

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>#0486</td>
<td>Data are arranged as vertical profiles; area is N 57 - N 61, W 014 - W 011</td>
</tr>
<tr>
<td>#0487</td>
<td>UPPER AIR - NORTHERN ATLANTIC</td>
</tr>
<tr>
<td>#1081</td>
<td>IR IMAGE LOOP OVER ALPEX AREA (METEOSAT) - EUROPE, N. ATLANTIC &amp; MEDITERRANEAN SEA</td>
</tr>
<tr>
<td>#1082</td>
<td>ALPEX METEOSAT-2 RAPID SCANNING DATA - EUROPE, N. ATLANTIC &amp; MEDITERRANEAN SEA</td>
</tr>
<tr>
<td>#1083</td>
<td>SPECIAL METEOSAT PHOTOGRAPHIC ARCHIVE FOR ALPEX SOP (ESA) - EUROPE, N. ATLANTIC &amp; MEDITERRANEAN SEA</td>
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<td>SPECIAL METEOSAT DIGITAL ARCHIVE FOR ALPEX SOP - EUROPE, N. ATLANTIC &amp; MEDITERRANEAN SEA</td>
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<tr>
<td>#0104</td>
<td>AIRCRAFT (AIDS) DATA - EUROPE, N. ATLANTIC, SOME SE ASIA, AUSTRALIA</td>
</tr>
</tbody>
</table>

**Details:**
- **Frequency/Grid:** 2-8 launches by ship
- **Sites/Levels:** Research vessel; 363 launches
- **Media Details:** Listings or magnetic tape (9-track, 1600 bpi)
- **Volume of Data:** 1 tape
- **Quality Control:** Manual and automated
- **Origin of Data:** National

**Published:**
- DWD/SAW-M2 (Centre 629B); 1982; Hamburg

**Deutscher Wetterdienst, Seewetteramt Hamburg - Federal Republic of Germany**

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<td>Data are arranged as vertical profiles; area is N 15 - N 60, longitude: W 060 - W 010</td>
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</tr>
</tbody>
</table>

**Details:**
- **Frequency/Grid:** 2-4 launches by ships
- **Sites/Levels:** 8 research vessels or merchant ships
- **Media Details:** Listings or magnetic tape (9-track, 1600/6250 bpi)
- **Volume of Data:** 10 tapes
- **Quality Control:** Manual and automated
- **Origin of Data:** National

**Published:**
- DWD/SAW-M2 (Centre 629B); 1982; Hamburg

**Deutscher Wetterdienst, Seewetteramt Hamburg - Federal Republic of Germany**

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</tr>
</tbody>
</table>

**Details:**
- **Frequency/Grid:** Over 19,000 vertical profiles at irregular positions, dates, times
- **Media Details:** Magnetic tape, 9-track, EBCDIC
- **Volume of Data:** 1 tape
- **Quality Control:** Manual and automated
- **Origin of Data:** United Kingdom daily aerological reports

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Global/regional areas

#0635 (A.21) : TEMPERATURE & HUMIDITY PROFILES (HERMES LOCAL AREA SOUNDINGS)
- EUROPE AND N. ATLANTIC OCEAN
see pages Cat: A Area: 18 (centre 690A, data set #0635)

#0644 (A.21) : ALPEx DATA SET (SURFACE CLIMATOLOGICAL & UPPER AIR) - OUTER EXPERIMENTAL AREA
see pages Cat: B Area: 18 (centre 690W, data set #0644)

#0483 (A.22) : UPPER AIR - SOUTHERN ATLANTIC
FORM AND MEDIA : 5 sets; computer-readable
PERIOD : 1968-current
AREA : South Atlantic Ocean
ELEMENTS : temperature(air) humidity
            wind pressure(air) heights of levels
tropopause
ARRANGEMENT : profiles
STATISTICS/DATA : data as measured/observed
DETAILS : data are arranged in vertical profiles;
area is S 40 - 00, W 050 - E 020
FREQUENCY/GRID : 2-4 launches by ships
SITES / LEVELS : 4 research vessels or merchant ships
MEDIA DETAILS : listings or magnetic tape (9-track, 1600/6250 bpi)
VOLUME OF DATA : 3 tapes
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : national
CENTRE 629B (1985)
Deutscher Wetterdienst, Seewetteramt Hamburg - Federal Republic of Germany

#0472 (A.23) : UPPER-AIR DATA-AFRICA, ANTARCTICA, INDIAN/PACIFIC OCEAN, ANTILLES
see pages Cat: A Area: 15 (centre 625A, data set #0472)

#0485 (A.25) : UPPER AIR - INDIAN OCEAN
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1971-current
AREA : South Indian Ocean
ELEMENTS : temperature(air) heights of levels
            pressure(air) tropopause
ARRANGEMENT : profiles
STATISTICS/DATA : data as measured/observed
DETAILS : data are arranged in vertical profiles;
area is S 37 - S 30, E 025 - E 140
FREQUENCY/GRID : 2-4 launches by ships
SITES / LEVELS : merchant ship
MEDIA DETAILS : listings or magnetic tape (9-track, 1600 bpi)
VOLUME OF DATA : 1 tape
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : national
CENTRE 629B (1985)
Deutscher Wetterdienst, Seewetteramt Hamburg - Federal Republic of Germany

#0247 (A.26) : UPPER-AIR DATA-AFRICA, ANTARCTICA, INDIAN/PACIFIC OCEAN, ANTILLES
see pages Cat: A Area: 15 (centre 625A, data set #0247)

#1078 (A.29) : ALPEx AIRCRAFT DATA (NOAA) - EUROPE & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 440B, data set #1078)

#1077 (A.29) : ALPEx AIRCRAFT DATA (NCAR) - EUROPE & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 440C, data set #1077)

#1079 (A.29) : ALPEx OFFICIAL AIRCRAFT DATA (WDC-A) - EUROPE & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 440X, data set #1079)

#1080 (A.29) : MIEC CLOUD MOTION VECTORS (WINDS) FOR ALPEx SOP (METEOSAT) - EUROPE & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 629X, data set #1080)
#1081 (A.29) : IR IMAGE LOOP OVER ALPEX AREA (METEOSAT) - EUROPE, N. ATLANTIC & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 629X, data set #1081)

#1082 (A.29) : ALPEX METEOSAT-2 RAPID SCANNING DATA - EUROPE, N. ATLANTIC & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 629X, data set #1082)

#1083 (A.29) : SPECIAL METEOSAT PHOTOGRAPHIC ARCHIVE FOR ALPEX SOP (ESA) - EUROPE, N. ATLANTIC & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 629X, data set #1083)

#1084 (A.29) : SPECIAL METEOSAT DIGITAL ARCHIVE FOR ALPEX SOP - EUROPE, N. ATLANTIC & MEDITERRANEAN SEA
see pages Cat: A Area: 18 (centre 629X, data set #1084)
CATEGORY: A (Upper-air data)

DATA SETS

AREAS WITHIN COUNTRIES
Areas within countries

#9781 (A.109) : WIND OBSERVATIONS - BURKINA FASO
FORM AND MEDIA : 1 set; original
PERIOD : 1960-current (see below)
AREA : Burkina Faso
ELEMENTS : wind
ARRANGEMENT : per station
STATISTICS/DATA: daily extremes
monthly extremes
annual extremes
FREQUENCY/GRID : 1 obs/day
SITES / LEVELS : 2 land stations:
- Ouagadougou (equipped with a wind radar since 1977);
- Bobo-Dioulasso

MEDIA DETAILS : manuscript
QUALITY CONTROL: manual
ORIGIN OF DATA : ASECNA
CENTRE 109A (1987)
Direction Météorologie Nationale - Burkina Faso

#9519 (A.130) : PILOT BALLOON AND RADIO OR RADAR WIND DATA - GABON
FORM AND MEDIA : 1 set; original
PERIOD : 1959-current
AREA : Gabon
ELEMENTS : wind
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
DETAILS : statistics are not yet available
FREQUENCY/GRID : pilot balloon station: 2 obs/day;
radar wind stations : 1 obs/day
SITES / LEVELS : 4 pilot balloon stations; 1 radar wind station

MEDIA DETAILS : manuscript
VOLUME OF DATA : variable
QUALITY CONTROL: manual
ORIGIN OF DATA : upper-air synoptic stations
CENTRE 139A (1986)
Direction de la Météorologie Nationale (DMN) - Gabon

#9784 (A.136) : UPPER-AIR DATA - GUINEA
FORM AND MEDIA : 1 set; original
PERIOD : 1935-current
AREA : Guinea
ELEMENTS : temperature(air)
wind
pressure(air)
humidity
ARRANGEMENT : per station
STATISTICS/DATA: daily means/totals
monthly means/totals
annual means/totals
daily extremes
monthly extremes
cloud ceiling
heights of levels
tropopause
geopotential
annual extremes
daily frequencies
monthly frequencies
annual frequencies
FREQUENCY/GRID : 2 obs/day
SITES / LEVELS : 1 aerological station
MEDIA DETAILS : manuscript
CENTRE 136A (1987)
Direction de la Météorologie - République de Guinée

#9513 (A.144) : UPPER-AIR DATA - KENYA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1952-current
AREA : Kenya
ELEMENTS : temperature(air)
wind
humidity
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
DETAILS : for wind: also maximum wind velocity
FREQUENCY/GRID : 2 obs/day
SITES / LEVELS : 2 stations (rawinsonde); 30 stations pilot balloon
MEDIA DETAILS : magnetic tape

- 130 -
<table>
<thead>
<tr>
<th>#0513 (A.144)</th>
<th>(continued)</th>
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<tbody>
<tr>
<td>QUALITY CONTROL: automated and manual checks</td>
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<tr>
<td>CENTRE 144A (1986)</td>
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<td>Kenya Meteorological Department</td>
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<thead>
<tr>
<th>#0150 (A.154)</th>
<th>RADIOSONDE DATA - MALAWI</th>
</tr>
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<tbody>
<tr>
<td>FORM AND MEDIA: 1 set; computer-readable,original</td>
<td></td>
</tr>
<tr>
<td>PERIOD: 1975-current</td>
<td></td>
</tr>
<tr>
<td>AREA: Malawi</td>
<td></td>
</tr>
<tr>
<td>ELEMENTS: temperature(air), humidity, pressure(air), heights of levels</td>
<td></td>
</tr>
<tr>
<td>ARRANGEMENT: per station</td>
<td></td>
</tr>
<tr>
<td>STATISTICS/DATA: data as measured/observed</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY/GRID: twice daily: 0600 &amp; 1300 hours</td>
<td></td>
</tr>
<tr>
<td>SITES / LEVELS: 1 station situated over central Malawi</td>
<td></td>
</tr>
<tr>
<td>MEDIA DETAILS: manuscript and magnetic tape</td>
<td></td>
</tr>
<tr>
<td>QUALITY CONTROL: manual and computer methods</td>
<td></td>
</tr>
<tr>
<td>CENTRE 154A (1987)</td>
<td></td>
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<td>Malawi Meteorological Department</td>
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<th>PILOT BALLOON DATA - MALAWI</th>
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<tbody>
<tr>
<td>FORM AND MEDIA: 1 set; computer-readable,published,original</td>
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<tr>
<td>PERIOD: 1949-current</td>
<td></td>
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<tr>
<td>AREA: Malawi</td>
<td></td>
</tr>
<tr>
<td>ELEMENTS: wind</td>
<td></td>
</tr>
<tr>
<td>ARRANGEMENT: per station</td>
<td></td>
</tr>
<tr>
<td>STATISTICS/DATA: monthly means/averages</td>
<td></td>
</tr>
<tr>
<td>PUBLISHED AS: regular summary</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY/GRID: twice daily: 0600 and 1300 hours</td>
<td></td>
</tr>
<tr>
<td>SITES / LEVELS: 6 stations</td>
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</tr>
<tr>
<td>MEDIA DETAILS: manuscript; magnetic tape</td>
<td></td>
</tr>
<tr>
<td>VOLUME OF DATA: thousands of manuscript copies; 1 reel of magnetic tape</td>
<td></td>
</tr>
<tr>
<td>QUALITY CONTROL: manual and by computer methods</td>
<td></td>
</tr>
<tr>
<td>ORIGIN OF DATA: ascents done at full time meteorological upper-air stations (land stations)</td>
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</tr>
<tr>
<td>PUBLISHED: winds at surface, 850, 800, 700, 600, 500, 400, 300, 200, 150, 100, 70, 50, 30 &amp; 20 mb levels plus their means; publication is in English</td>
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</tr>
<tr>
<td>freq./size: monthly; 1 page per station/month of publication up to 1978</td>
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<tr>
<td>title: Monthly Summaries</td>
<td></td>
</tr>
<tr>
<td>author/editor: centre 154A</td>
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<tr>
<td>CENTRE 154A (1987)</td>
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<th>#0518 (A.158)</th>
<th>UPPER-AIR DATA - MAURITIUS</th>
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<tbody>
<tr>
<td>FORM AND MEDIA: 1 set; published</td>
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<tr>
<td>PERIOD: 1949-current (see below)</td>
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<tr>
<td>AREA: Mauritius</td>
<td></td>
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<tr>
<td>ELEMENTS: temperature(air), heights of levels, wind, pressure(air), layer thickness, humidity, tropopause</td>
<td></td>
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<tr>
<td>ARRANGEMENT: per station</td>
<td></td>
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<tr>
<td>STATISTICS/DATA: daily means/averages, daily extremes</td>
<td></td>
</tr>
<tr>
<td>PUBLISHED AS: regular summary, climatological tables</td>
<td></td>
</tr>
<tr>
<td>FREQUENCY/GRID: once daily</td>
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<tr>
<td>SITES / LEVELS: stations: 1 rawin/radiosonde, 2 rawin, 1 pilot balloon</td>
<td></td>
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<tr>
<td>QUALITY CONTROL: manual</td>
<td></td>
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<tr>
<td>ORIGIN OF DATA: wind-finding radar</td>
<td></td>
</tr>
<tr>
<td>PUBLISHED: climatological summaries</td>
<td></td>
</tr>
<tr>
<td>freq./size: monthly</td>
<td></td>
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<tr>
<td>title: Climatological Summaries &amp; Meteorological Observations</td>
<td></td>
</tr>
<tr>
<td>author/editor: Mauritius Meteorological Service</td>
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<tr>
<td>CENTRE 158A (1987)</td>
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<tr>
<td>Mauritius Meteorological Service</td>
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<td>Code</td>
<td>Description</td>
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<tr>
<td>--------</td>
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<tr>
<td>#0522</td>
<td>UPPER-AIR DATA - MOZAMBIQUE</td>
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<td>PERIOD: 1934-current (see below)</td>
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<tr>
<td></td>
<td>ELEMENTS: temperature(air), wind, pressure(air)</td>
</tr>
<tr>
<td></td>
<td>FREQUENCY/GRID: 1 or 2 obs/day at 1200 GMT or at 0000 &amp; 1200 GMT</td>
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<tr>
<td>#0888</td>
<td>UPPER-AIR DATA - NIGERIA</td>
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<tr>
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<td>PERIOD: 1957-current</td>
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<tr>
<td></td>
<td>ELEMENTS: temperature(air), wind, pressure(air)</td>
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<td>ARRANGEMENT: per station</td>
</tr>
<tr>
<td></td>
<td>FREQUENCY/GRID: daily</td>
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<tr>
<td>#0331</td>
<td>UPPER-AIR CLIMATOLOGICAL DATA - SIERRA LEONE</td>
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<tr>
<td></td>
<td>PERIOD: unspecified-1978</td>
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<tr>
<td></td>
<td>ELEMENTS: temperature(air), pressure(air)</td>
</tr>
<tr>
<td></td>
<td>ARRANGEMENT: per station</td>
</tr>
<tr>
<td></td>
<td>FREQUENCY/GRID: daily</td>
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<tr>
<td>#0789</td>
<td>RADIOSONDE SOUNDINGS (OBSERVATIONS) - SUDAN</td>
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<tr>
<td></td>
<td>FORM AND MEDIA: 1 set; original</td>
</tr>
<tr>
<td></td>
<td>PERIOD: 1953-current (see below)</td>
</tr>
<tr>
<td></td>
<td>AREA: Sudan</td>
</tr>
<tr>
<td></td>
<td>ELEMENTS: temperature(air), wind, pressure(air)</td>
</tr>
<tr>
<td></td>
<td>ARRANGEMENT: per station</td>
</tr>
<tr>
<td></td>
<td>STATISTICS/DATA: daily means/totals</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>
Areas within countries

#0789 (A.182) : (continued)
FREQUENCY/GRID : 1 sounding daily at 1200 GMT at 1 station; 1 sounding daily at 1200 GMT every other day at 4 stations
SITES / LEVELS : 5 radiosonde stations
MEDIA DETAILS : elements are tabulated on special forms
VOLUME OF DATA : 1 sheet per day for each of 5 stations
QUALITY CONTROL : manual
CENTRE 182A (1987)
Meteorological Department - Sudan

#0790 (A.182) : PILOT BALLOON OBSERVATIONS - SUDAN
FORM AND MEDIA : 1 set; original
PERIOD : 1937-current
AREA : Sudan
ELEMENTS : wind
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA : daily means/totals
FREQUENCY/GRID : monthly means/totals
SITES / LEVELS : annual means/totals
twice daily at 0000 and 1200 GMT
12 pilot balloon stations
MEDIA DETAILS : tabulation on special forms
VOLUME OF DATA : 2 sheets daily for each station
QUALITY CONTROL : manual
CENTRE 182A (1987)
Meteorological Department - Sudan

#0391 (A.184) : RADIOSONDE DATA - TANZANIA
FORM AND MEDIA : 1 set; original
PERIOD : 1965-current (see below)
AREA : United Republic of Tanzania
ELEMENTS : temperature(air) humidity
wind pressure(air)
humidity heights of levels
tropopause
ARRANGEMENT : per station
horizontal levels
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 1 to 2 obs/day
SITES / LEVELS : 1 land station
MEDIA DETAILS : manuscript
VOLUME OF DATA : unknown
QUALITY CONTROL : manual
ORIGIN OF DATA : daily observation books
CENTRE 184A (1987)
Directorate of Meteorology - Tanzania

#0392 (A.184) : PILOT BALLOON AND RAWIN - TANZANIA
FORM AND MEDIA : 2 sets; original
PERIOD : 1931-current (see below)
AREA : United Republic of Tanzania
ELEMENTS : wind
ARRANGEMENT : per station
horizontal levels
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 2 obs/day
SITES / LEVELS : land stations:- 1 rawin station commenced 1977
19 pilot balloon stations
MEDIA DETAILS : manuscript
VOLUME OF DATA : unknown
QUALITY CONTROL : manual
ORIGIN OF DATA : daily observation books
CENTRE 184A (1987)
Directorate of Meteorology - Tanzania

#0702 (A.186) : UPPER-AIR DATA - TOGO
FORM AND MEDIA : 1 set; original
PERIOD : unspecified-current
AREA : Togo
ELEMENTS : wind
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA : data as measured/observed
SITES / LEVELS : 2 synoptic stations
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
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</table>
| 0159 | UPPER-AIR DATA - ZAMBIA  
FORM AND MEDIA: 1 set; computer-readable, original  
PERIOD: 1956-current  
AREA: Zambia  
ELEMENTS: temperature(air), wind, humidity  
ARRANGEMENT: per station  
STATISTICS/DATA: monthly means/totals  
FREQUENCY/GRID: 1 obs/day (1200 GMT) for radiosonde obs; 2 obs/day (0600 GMT, 1200 GMT) for winds  
SITES / LEVELS: 3 radiosonde/radiowind stations up to 1980; 1 thereafter; 5 pilot balloon stations  
MEDIA DETAILS: mainly manuscript; 1974-80 on punch cards  
VOLUME OF DATA: about 90 pages of manuscript for temperature, humidity and heights; 300 pages for wind  
QUALITY CONTROL: manual checks: limits  |
| 0164 | MEANS AND EXTREMES OF RADIOSONDE DATA - AFGHANISTAN  
FORM AND MEDIA: 1 set; computer-readable, published  
PERIOD: 1965-current  
AREA: Afghanistan  
ELEMENTS: temperature(air), wind, pressure(air), humidity  
ARRANGEMENT: per station  
STATISTICS/DATA: daily means/totals, monthly means/totals, annual means/totals  
FREQUENCY/GRID: 2 obs/day at 0000 & 1200 GMT  
SITES / LEVELS: 3 aerological stations  
MEDIA DETAILS: punched cards  
QUALITY CONTROL: manual  |
| 0283 | AEREOLOGICAL RECORDS OF CHINA  
FORM AND MEDIA: 1 set; published, original  
PERIOD: 1960-1969  
AREA: China  
ELEMENTS: temperature(air), pressure(air), humidity  
ARRANGEMENT: per station  
STATISTICS/DATA: monthly means/totals, monthly extremes  
PUBLISHED AS: derived from measured/observed climatological tables  
PUBLISHED DETAILS: humidity: dew-point deficit; extremes: not available for dew-point deficit  
FREQUENCY/GRID: 2 obs/day  
SITES / LEVELS: 46 stations; 21 levels (1000-10mb)  
MEDIA DETAILS: hard-copy; daily data on manuscript  
VOLUME OF DATA: 93 pages  
QUALITY CONTROL: manual  |
| 0703 | UPPER-AIR CLIMATOLOGICAL DATA - HONG KONG  
FORM AND MEDIA: 1 set; computer-readable, published, original  
PERIOD: 1947-current (see below)  |
### Areas within countries

#### Cat: A  Country: 238 240 253

<table>
<thead>
<tr>
<th>#0703 (A.238)</th>
<th>(continued)</th>
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<tr>
<td>AREA</td>
<td>Hong Kong</td>
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<tr>
<td>ELEMENTS</td>
<td>temperature(air) heights of levels</td>
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<td>wind layer thickness</td>
</tr>
<tr>
<td></td>
<td>pressure(air) tropopause</td>
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<tr>
<td></td>
<td>humidity precipitable water</td>
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<tr>
<td></td>
<td>cloud ceiling geopotential</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station normals</td>
</tr>
<tr>
<td>STATISTICS/DATA:</td>
<td>monthly means/totals standard deviations</td>
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<tr>
<td></td>
<td>annual means/totals data as measured/observed</td>
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<td></td>
<td>monthly extremes</td>
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<tr>
<td>PUBLISHED AS</td>
<td>regular summary</td>
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<tr>
<td>FREQUENCY/GUIDE</td>
<td>twice a day but four times a day for wind</td>
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<td>SITES / LEVELS</td>
<td>1 site</td>
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<td>MEDIA DETAILS</td>
<td>magnetic tape; original</td>
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<tr>
<td>VOLUME OF DATA</td>
<td>10 reels of 2,400 ft tape</td>
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<tr>
<td>QUALITY CONTROL</td>
<td>manual and automated</td>
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<tr>
<td>ORIGIN OF DATA</td>
<td>soundings at King's Park, Hong Kong</td>
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<td>PUBLISHED</td>
<td>monthly and annual means</td>
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<tr>
<td>freq./size</td>
<td>annual Meteorological Results, Part II - Upper-Air Observations</td>
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<tr>
<td>title</td>
<td>(1947-1980, yearly);</td>
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<tr>
<td></td>
<td>A Summary of Radiosonde-radarwind Ascents made at King's Park, Hong Kong</td>
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<td></td>
<td>(1981-current, yearly)</td>
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<tr>
<td>publisher</td>
<td>centre 238A</td>
</tr>
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<td>CENTRE 238A (1989)</td>
<td>Royal Observatory - Hong Kong</td>
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#### #0938 (A.240) : DAILY UPPER-AIR/UPPER-WIND DATA OF ALL INDIAN STATIONS

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<tr>
<th>##0938 (A.240)</th>
<th>DAILY UPPER-AIR/UPPER-WIND DATA OF ALL INDIAN STATIONS</th>
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<tbody>
<tr>
<td>FORM AND MEDIA</td>
<td>1 set; computer-readable,published,original</td>
</tr>
<tr>
<td>PERIOD</td>
<td>1951-current (see below)</td>
</tr>
<tr>
<td>AREA</td>
<td>India</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>temperature(air) pressure(air)</td>
</tr>
<tr>
<td></td>
<td>wind humidity</td>
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<tr>
<td>ARRANGEMENT</td>
<td>one year all stations</td>
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<td>STATISTICS/DATA:</td>
<td>monthly means/totals</td>
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<td></td>
<td>normal data as measured/observed</td>
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<tr>
<td>PUBLISHED AS</td>
<td>climatological tables atlas</td>
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<tr>
<td>FREQUENCY/GUIDE</td>
<td>2 observations at 0000 &amp; 1200 GMT per day per station</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>35 radiosonde, 34 radiowind and 64 pilot balloon stations</td>
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<tr>
<td></td>
<td>(departmental) all over the country</td>
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<td>MEDIA DETAILS</td>
<td>manuscript, punched cards and magnetic tape</td>
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<tr>
<td>VOLUME OF DATA</td>
<td>approx. 0.3 million records/year</td>
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<tr>
<td>QUALITY CONTROL</td>
<td>manual &amp; partly electronic</td>
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<tr>
<td>REMARKS</td>
<td>1985 onwards data is under process</td>
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<tr>
<td>PUBLISHED</td>
<td>1968-1970 monthly upper-air data</td>
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<tr>
<td>freq./size</td>
<td>monthly and annual Aerological Data of India Part I and II</td>
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<tr>
<td>title</td>
<td>author/editor: centre 240B</td>
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<td>CENTRE 240B (1988)</td>
<td>National Data Centre (Pune), India Meteorological Department</td>
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#### #0134 (A.253) : AEROLEGICAL DATA OF JAPAN, 30-YEAR PERIOD AVERAGES

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<th>#0134 (A.253)</th>
<th>AEROLEGICAL DATA OF JAPAN, 30-YEAR PERIOD AVERAGES</th>
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<tr>
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<tr>
<td>PERIOD</td>
<td>1951-current (see below)</td>
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<td>AREA</td>
<td>Japan</td>
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<td>ELEMENTS</td>
<td>wind temperature(air) humidity heights of levels</td>
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<td></td>
<td>pressure(air)</td>
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<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
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<tr>
<td>STATISTICS/DATA:</td>
<td>monthly means/totals</td>
</tr>
<tr>
<td></td>
<td>monthly extremes normals</td>
</tr>
<tr>
<td>PUBLISHED AS</td>
<td>climatological tables</td>
</tr>
<tr>
<td>DETAILS</td>
<td>chronology/time series altitude, temperature, humidity, component wind and wind speed of the standard isobaric surfaces (including meteorological rocket observations at a station)</td>
</tr>
<tr>
<td>FREQUENCY/GUIDE</td>
<td>2 obs/day at 0000 and 1200 GMT</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>20 stations</td>
</tr>
</tbody>
</table>
ClibPDF - www.fastio.com

Cat: A  Country: 253 255 260 266  
Areas within countries

#0134 (A.253) : (continued)
MEDIA DETAILS : magnetic tape (1951-current)
VOLUME OF DATA : 1 reel
QUALITY CONTROL: manual and automated
ORIGIN OF DATA : synoptic upper-air observations
REMARKS : periods: 1951-1980 10 stations  
           1957-1980 4 stations
           1961-1980 1 station
           1964-1980 1 station
           1971-1980 3 stations
           1973-1980 1 station
PUBLISHED : 30-year averages of aerological data of Japan;  
in English and Japanese
freq./size : 2 parts (604 pages and 576 pages)
title : Aerological Data of Japan 30-year Period Averages (1951-1980)
publisher : centre 253A
CENTRE 253A (1988)
Japan Meteorological Agency (JMA)

#0799 (A.255) : UPPER-AIR DATA - KUWAIT
FORM AND MEDIA : 1 set; published,original
PERIOD : 1969-current
AREA : Kuwait
ELEMENTS : temperature(air)
            wind
            pressure(air)
            humidity
            heights of levels
            tropopause
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
                  annual means/totals
                  monthly extremes
                  annual extremes
                  data as measured/observed
                  derived from measured/observed
PUBLISHED AS : regular summary
                climatological tables
DETAILS : for humidity: dew-point temperature
PUBLISHED : the following tables are included in the Annual Climatological  
            Report: 1) means & absolutes of altitude, temperature,
            dew-point & wind speed at standard pressure levels;
            2) means & absolutes of the freezing level, tropopause & wind speed
freq./size : annual
title : Annual Climatological Report
CENTRE 255A (1987)
Meteorological Department - Kuwait

#0337 (A.260) : UPPER-AIR OBSERVATIONS (WIND) - MALDIVES
FORM AND MEDIA : 1 set; published,original
PERIOD : 1975-current (see below)
AREA : Maldives
ELEMENTS : wind
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
PUBLISHED AS : regular summary
                climatological tables
FREQUENCY/GRID : 1975-1976 : 2 obs/day computed
                  1980-1981 : uncomputed due minimal data
                  1977, 1982-1983: 1 obs/day
SITES / LEVELS : 1 station
MEDIA DETAILS : logs of upper-air station
QUALITY CONTROL: manual
PUBLISHED : monthly climatological tables
freq./size : published on annual basis; 7 pages
title : Some Meteorological Data
publisher : centre 260A; 1978
CENTRE 260A (1988)
Department of Meteorology - Maldives

#0706 (A.266) : UPPER-AIR DATA - OMAN
FORM AND MEDIA : 1 set; computer-readable, published, original
PERIOD : 1980-current (see below)
AREA : Oman
ELEMENTS : temperature(air)
            wind
            pressure(air)
            humidity
            heights of levels
            tropopause
            air density
            specific gravity

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Areas within countries

Cat: A  Country: 266 272 274

#0706 (A.266) : (continued)

ARRANGEMENT : per station

STATISTICS/DATA: daily means/totals  monthly extremes
                    monthly means/totals  annual extremes
                    annual means/totals  data as measured/observed
                    daily extremes  derived from measured/observed

PUBLISHED AS : climatological tables

DETAILS : for station 41316 with effect from October 1980;
      for station 41256 with effect from September 1983

FREQUENCY/GRID : twice daily at 0000 and 1200 GMT

SITES / LEVELS : 2 sites

MEDIA DETAILS : magnetic tape

QUALITY CONTROL: not for the original output; but it is done while processing
      data (entry check)

ORIGIN OF DATA : radiosonde

PUBLISHED : monthly upper-air climatological summary; no. of occurrences
      of wind direction within specified ranges & mean scalar wind
      at standard & selected levels

freq./size : monthly

author/editor: Climate Section, centre 266A

enquiry addr.: centre 266A

CENTRE 266A (1988)

Directorate General of Civil Aviation & Meteorology (DGCAM) - Oman

#0802 (A.272) : MONTHLY UPPER-AIR DATA - KOREA

FORM AND MEDIA : 1 set; computer-readable,published,original

PERIOD : 1965-current (see below)

AREA : Republic of Korea

ELEMENTS : temperature(air)  heights of levels
            wind
            pressure(air)  tropopause
            humidity  geopotential

ARRANGEMENT : per station

STATISTICS/DATA: daily means/totals
                    monthly means/totals
                    synoptic arrangement
                    monthly frequencies
                    profiles
                    derived from measured/observed

PUBLISHED AS : climatological tables

FREQUENCY/GRID : 2 obs/day at 0000 and 1200 GMT

SITES / LEVELS : 3 land stations with rawinsonde

MEDIA DETAILS : magnetic tape, 1600 bpi

VOLUME OF DATA : 1 tape (1984 to 1986)

QUALITY CONTROL: by the limited criteria for Automatic Quality Control (A.Q.C.)

ORIGIN OF DATA : 2 stations of the Air Force

PUBLISHED : available in Korean and English

freq./size : bimonthly

title : Monthly Upper-Air Data

author/editor: Data Archives Division, centre 272A

CENTRE 272A (1987)

Korea Meteorological Service

#0803 (A.272) : MONTHLY PIBAL DATA - KOREA

FORM AND MEDIA : 1 set; original

PERIOD : 1961-current (see below)

AREA : Republic of Korea

ELEMENTS : wind

ARRANGEMENT : per station

STATISTICS/DATA: daily means/totals
                    monthly means/totals
                    synoptic arrangement
                    monthly frequencies
                    profiles
                    derived from measured/observed

FREQUENCY/GRID : 2 obs/day at 0000 and 1200 GMT

SITES / LEVELS : 1 land station

CENTRE 272A (1987)

Korea Meteorological Service

#0333 (A.274) : UPPER-AIR DATA (ANNUAL ENVIRONMENTAL REPORT) - SAUDI ARABIA

FORM AND MEDIA : 1 set; original

PERIOD : 1978-1979

AREA : Saudi Arabia

ELEMENTS : temperature(air)  heights of levels

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ClibPDF - www.fastio.com

Areas within countries

#0333 (A.274): (continued)
ELEMENTS:
- wind
- pressure(air)
- humidity
ARRANGEMENT:
- per station
STATISTICS/DATA:
- monthly means/totals
- annual means/totals
DETAILS:
- altitude, pressure and dew point at freezing level;
  for humidity: dew point
FREQUENCY/GRID:
- 2 obs/day at 0000 and 1200 GMT
SITES / LEVELS:
- 8 land stations
MEDIA DETAILS:
- hard copy
VOLUME OF DATA:
- 2 volumes
QUALITY CONTROL:
- none
CENTRE 274A (1984)

Meteorology and Environmental Protection Administration - Saudi Arabia

#0545 (A.278): MONTHLY RAWINSONDE DATA - THAILAND
FORM AND MEDIA:
- 1 set; published, original
PERIOD:
- 1953-1979 (see below)
AREA:
- Thailand
ELEMENTS:
- temperature(air)
- wind(direction and speed)
- pressure(air)
- humidity
- heights of levels
- tropopause
- resultant wind & steadiness(%)
ARRANGEMENT:
- per station
STATISTICS/DATA:
- monthly means/totals
- monthly extremes
PUBLISHED AS:
- climatological tables
DETAILS:
- monthly observations of rawinsonde data in Thailand
FREQUENCY/GRID:
- 1 obs/day
SITES / LEVELS:
- 4 stations
QUALITY CONTROL:
- manual
REMARKS:
- period: 1961-1979, no publications for the years 1965-1968
- observations of rawinsonde data at standard level and
  significant level
- freq./size:
  - monthly; about 30-35 pages per issue
- title:
  - Monthly Rawinsonde Data
enquiry addr.:
- centre 278A
CENTRE 278A (1987)
Meteorological Department - Thailand

#0814 (A.278): TETHERSONDE DATA - THAILAND
FORM AND MEDIA:
- 1 set; original
PERIOD:
- 1986-1987
AREA:
- Thailand
ELEMENTS:
- temperature(air)
- wind
- pressure(air)
- humidity
- heights of levels
- layer thickness
ARRANGEMENT:
- per station
STATISTICS/DATA:
- data as measured/observed
DETAILS:
- case study using tethersonde for purpose of inversion height
  and wind profiles for the Provinces of Chiang Mai, Rayong and
  Chon Buri (up to 925 mb)
FREQUENCY/GRID:
- 2 times/year for each location
SITES / LEVELS:
- Chiang Mai (Northern Thailand) 380m above sea level;
  Rayong & Chonburi (Eastern Seaboard Thailand) at sea level
VOLUME OF DATA:
- varies
QUALITY CONTROL:
- manual (based on manufacturer's recommendation)
CENTRE 278C (1987)
Office of the National Environment Board - Thailand

#0816 (A.320): UPPER-AIR DATA - BRAZIL
FORM AND MEDIA:
- 10 sets; original
PERIOD:
- 1969-current
AREA:
- Brazil
ELEMENTS:
- temperature(air)
- wind
- pressure(air)
- humidity
- cloud ceiling
- tropopause
  - precipitable water
ARRANGEMENT:
- per station
STATISTICS/DATA:
- daily means/totals
FREQUENCY/GRID:
- daily

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Areas within countries

Cat: A  Country: 320 340 345 395

#0816 (A.320) : (continued)
SITES / LEVELS : upper-air stations of INEMET (centre 320A)
CENTRE 320A (1987)
Instituto Nacional de Meteorología (INEMET) - Brazil

#0819 (A.340) : UPPER-AIR DATA - CHILE
FORM AND MEDIA : group of sets; microform,published,original
PERIOD : 1957-1986  (see below)
AREA : Chile
ELEMENTS : temperature(air)  heights of levels
wind
temperature(air)  tropopause
pressure(air)  geopotential
humidity
ARRANGEMENT : per station
STATISTICS/DATA : contour analysis
data as measured/observed
PUBLISHED AS : regular summary
derived from measured/observed
climatological tables
charts - atlas
DETAILS : for wind: also maximum wind
FREQUENCY/GRID : 2 obs/day at 0000 & 1200 GMT for 2 stations;
1 obs/day at 1200 GMT for 2 stations
SITES / LEVELS : 4 stations
MEDIA DETAILS : microfilm (for period 1962-1984) of analysed maps of thickness
700, 500, 300, 250 & 200 hpa and of tropopause & maximum wind;
original data (for period 1957 to present)
VOLUME OF DATA : 1 set for 3 times (1200, 1800, 0000 GMT) per day per 22 years
PUBLISHED : in the Boletín NOAA: 1957-1980 3 stations;
1971-1980 4 stations
freq./size : monthly and annually
author/editor: Boletín NOAA, Anuario Meteorológico (1974-1979)
title: Dirección Meteorológica de Chile
CENTRE 340A (1987)

#0548 (A.345) : NATIONAL RAWINSONDE DATA - COLUMBIA
FORM AND MEDIA : 1 set; original
PERIOD : 1957-current (see below)
AREA : Colombia
ELEMENTS : temperature(air)  humidity
wind
temperature(air)  tropopause
pressure(air)  geopotential
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
DETAILS : for humidity: relative humidity;
for wind: wind power duration,
wind means (scalar and vectorial)
FREQUENCY/GRID : 2 obs/day at 0000 & 1200 GMT for the station Bogotá-Eldorado;
1 obs/day at 1200 GMT for the other 4 stations
SITES / LEVELS : 5 rawinsonde stations (levels 1000, 850, 700, 500, 300, 200,
150, 100, 70, 50, 30, 20 & 10 hPa):
Bogotá-Eldorado  N 4° 42', W 074° 09' from 1960;
San Andrés (Isla)  N 12° 35', W 081° 43' from 1957;
Gaviotas (Vichada)  N 4° 33', W 070° 55' from 1973;
Leticia (Amazonas)  S 04° 09', W 069° 57' from 1985;
Tumaco (El Mira)  N 01° 34', W 078° 41' from 1974 (data
incomplete)
MEDIA DETAILS : manuscript
QUALITY CONTROL: manual
CENTRE 345A (1987)
Instituto Colombiano de Hidrología, Meteorología y Adecuación de Tierras

#0870 (A.395) : UPPER-AIR DATA (SYNOPTIC) - VENEZUELA
FORM AND MEDIA : 1 set; original
PERIOD : 1951-current
AREA : Venezuela
ELEMENTS : temperature(air)  heights of levels
wind
temperature(air)  tropopause
pressure(air)  geopotential
humidity
ARRANGEMENT : per station
STATISTICS/DATA : hourly means/totals
annual means/totals

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### Areas within countries

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>#0870</td>
<td>(A.395) (continued)</td>
</tr>
<tr>
<td></td>
<td><strong>STATISTICS/DATA:</strong> daily means/totals</td>
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<tr>
<td></td>
<td><strong>(cont.) monthly means/totals</strong></td>
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<tr>
<td></td>
<td><strong>FREQUENCY/GRID:</strong> continuous recording</td>
</tr>
<tr>
<td></td>
<td><strong>SITES / LEVELS:</strong> 4 radiosonde synoptic stations</td>
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<td></td>
<td><strong>CENTRE 395A (1987)</strong></td>
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<td></td>
<td><strong>Servicio de Meteorologia de la Fuerza Aerea (FAV) - Venezuela</strong></td>
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<tr>
<td>#0260</td>
<td>(A.401) LOCAL RAWINSonde DATA - BAHAMAS</td>
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<tr>
<td></td>
<td><strong>FORM AND MEDIA:</strong> 1 set; original</td>
</tr>
<tr>
<td></td>
<td><strong>PERIOD:</strong> 1977-current</td>
</tr>
<tr>
<td></td>
<td><strong>AREA:</strong> Bahamas</td>
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<td><strong>ELEMENTS:</strong> temperature(air)</td>
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<td><strong>wind</strong></td>
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<td><strong>pressure(air)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>arrangement:</strong> per station</td>
</tr>
<tr>
<td></td>
<td><strong>STATISTICS/DATA:</strong> data as measured/observed</td>
</tr>
<tr>
<td></td>
<td><strong>FREQUENCY/GRID:</strong> 1 obs/day at 1200 GMT; 2 obs/day at 0000 &amp; 0600 GMT when a cyclone threatens the area</td>
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<tr>
<td></td>
<td><strong>SITES / LEVELS:</strong> 1 station</td>
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<tr>
<td></td>
<td><strong>MEDIA DETAILS:</strong> printed reports</td>
</tr>
<tr>
<td></td>
<td><strong>QUALITY CONTROL:</strong> manual</td>
</tr>
<tr>
<td></td>
<td><strong>ORIGIN OF DATA:</strong> local</td>
</tr>
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<td><strong>CENTRE 401A (1984)</strong></td>
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<td></td>
<td><strong>Bahamas Meteorological Department</strong></td>
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<tr>
<td>#0006</td>
<td>(A.406) CANADIAN UPPER-AIR DATA</td>
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<td></td>
<td><strong>FORM AND MEDIA:</strong> 1 set; computer-readable,microform,published</td>
</tr>
<tr>
<td></td>
<td><strong>PERIOD:</strong> 1961-current (see below)</td>
</tr>
<tr>
<td></td>
<td><strong>AREA:</strong> Canada</td>
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<td></td>
<td><strong>ELEMENTS:</strong> temperature(air)</td>
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<tr>
<td></td>
<td><strong>wind</strong></td>
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<td></td>
<td><strong>pressure(air)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>arrangement:</strong> per station</td>
</tr>
<tr>
<td></td>
<td><strong>STATISTICS/DATA:</strong> data as measured/observed</td>
</tr>
<tr>
<td></td>
<td><strong>PUBLISHED AS:</strong> regular summary</td>
</tr>
<tr>
<td></td>
<td><strong>DETAILS:</strong> for details of the current network see WMO (centre 676W)</td>
</tr>
<tr>
<td></td>
<td>**Publication No.9, &quot;Volume A: Observing stations&quot;</td>
</tr>
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<td></td>
<td><strong>FREQUENCY/GRID:</strong> 2 obs/day</td>
</tr>
<tr>
<td></td>
<td><strong>SITES / LEVELS:</strong> up to 60 stations; standard and significant levels</td>
</tr>
<tr>
<td></td>
<td><strong>MEDIA DETAILS:</strong> magnetic tape</td>
</tr>
<tr>
<td></td>
<td><strong>QUALITY CONTROL:</strong> standard temporal and spatial intercomparisons to April 1983</td>
</tr>
<tr>
<td></td>
<td><strong>REMARKS:</strong> monthly climatological data for 33 stations (CLIMAT TEMP reports) are included in: &quot;Monthly Climatic Data for the World&quot;</td>
</tr>
<tr>
<td></td>
<td><strong>PUBLISHED:</strong> daily values &amp; monthly means at 0000 &amp; 1200 GMT; standard &amp; significant levels</td>
</tr>
<tr>
<td></td>
<td><strong>freq./size:</strong> monthly; approx. 100 pages</td>
</tr>
<tr>
<td></td>
<td><strong>title:</strong> Monthly Bulletin Canadian Upper-Air Data</td>
</tr>
<tr>
<td></td>
<td><strong>publisher:</strong> centre 406A; 1961 to December 1976 (publication ceased 1976)</td>
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<td></td>
<td><strong>CENTRE 406A (1988)</strong></td>
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<td></td>
<td><strong>Canadian Climate Centre - Atmospheric Environment Service (ABS)</strong></td>
</tr>
<tr>
<td>#0203</td>
<td>(A.423) NATIONAL RAWINSonde DATA - DOMINICAN REPUBLIC</td>
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<td></td>
<td><strong>FORM AND MEDIA:</strong> 1 set; published,original</td>
</tr>
<tr>
<td></td>
<td><strong>PERIOD:</strong> 1957-current</td>
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<td><strong>AREA:</strong> Dominican Republic</td>
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<td><strong>ELEMENTS:</strong> temperature(air)</td>
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<td></td>
<td><strong>wind</strong></td>
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<td></td>
<td><strong>pressure(air)</strong></td>
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<tr>
<td></td>
<td><strong>arrangement:</strong> per station</td>
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<td></td>
<td><strong>STATISTICS/DATA:</strong> data as measured/observed</td>
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<td></td>
<td><strong>PUBLISHED AS:</strong> regular summary</td>
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<tr>
<td></td>
<td><strong>FREQUENCY/GRID:</strong> 2 obs/day at 0000 and 1200 GMT</td>
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<td></td>
<td><strong>SITES / LEVELS:</strong> 2 stations</td>
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<td></td>
<td><strong>MEDIA DETAILS:</strong> manuscript</td>
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<tr>
<td></td>
<td><strong>QUALITY CONTROL:</strong> no</td>
</tr>
<tr>
<td></td>
<td><strong>PUBLISHED:</strong> as described above</td>
</tr>
<tr>
<td></td>
<td><strong>freq./size:</strong> monthly; about 12 pages per issue</td>
</tr>
<tr>
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<td><strong>CENTRE 423A (1984)</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Oficina Nacional de Meteorologia (ONAMET) - Dominican Republic</strong></td>
</tr>
</tbody>
</table>

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Areas within countries

#0293 (A.427) : RADIOSONDE STATION DATA - GUATEMALA
FORM AND MEDIA : 1 set; original
PERIOD : 1974-current
AREA : Guatemala
ELEMENTS : temperature(air) humidity
wind heights of levels
pressure(air)
ARRANGEMENT : horizontal levels
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : 1 observation daily at 06 hours local time
SITES / LEVELS : 1 radiosonde station
MEDIA DETAILS : manuscript
QUALITY CONTROL: all calculations checked
CENTRE 427A (1984)
Sección de Climatología INSIVUMEH - Guatemala

#0558 (A.439) : UPPER-AIR DATA - JAMAICA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1956-current
AREA : Jamaica
ELEMENTS : temperature(air) humidity
wind heights of levels
pressure(air) tropopause
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : 2 obs/day at 0000 & 1200 GMT
SITES / LEVELS : 1 station: Manley International Airport, N 17 56 & W 076 47;
rawinsonde; standard and significant levels
MEDIA DETAILS : magnetic tape at NCDC/NOAA (centre 440A)
QUALITY CONTROL: manual checks verified by NOAA computer quality control
CENTRE 430A (1986)
National Meteorological Service - Jamaica

#0207 (A.438) : UPPER-AIR DATA - TRINIDAD AND TOBAGO
FORM AND MEDIA : 1 set; computer-readable,original
PERIOD : 1969-current
AREA : Trinidad and Tobago
ELEMENTS : temperature(air) humidity
wind heights of levels
pressure(air) tropopause
ARRANGEMENT : per station
STATISTICS/DATA: daily means/total
FREQUENCY/GRID : 20 obs/day
SITES / LEVELS : 1 land station: Piarco Airport at N 10 35, W 061 21
MEDIA DETAILS : diskette; original ledger
QUALITY CONTROL: CLICON procedure; internal manual checks on original ledger
REMARKS : magnetic streamer tape archiving
CENTRE 436A (1987)
Trinidad and Tobago Meteorological Service

#0455 (A.440) : U.S. RAWINSONDE OBSERVATIONS
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1946-current (see below)
AREA : United States of America
ELEMENTS : temperature(air) humidity
wind heights of levels
pressure(air) tropopause
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
DETAILS : arranged by station in chronological order;
standard (every 50 mb) and mandatory levels begin July 1952;
area mostly U.S. and possessions but some other stations
included;
observations are variable length in ascending height order
usually 2 obs/day; some periods may have 4 obs/day
FREQUENCY/GRID : approximately 139; this number varies throughout period
SITES / LEVELS : magnetic tape, 6250 bpi
MEDIA DETAILS : 52 reels
QUALITY CONTROL: computer and manual edits; hydrostatic checks
ORIGIN OF DATA : U.S. rawinsonde stations
REMARKS : data set (TD-6201) is basic network for U.S. stations & is
#0455 (A.440) : (continued)
REMARKS : used for climatology, research & engineering; quality of data improves as data set continues; originally processed on punched cards, all data now received on tape or disk; some other data available for earlier periods, but quality & format may differ

CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0828 (A.505) : UPPER-AIR DATA FOR AUSTRALIAN REGION
FORM AND MEDIA : group of sets; computer-readable, microform
PERIOD : 1942-current (see below)
AREA : Australia
ELEMENTS : temperature(air), humidity
           wind, pressure(air), heights of levels, tropopause
ARRANGEMENT : per station
STATISTICS/DATA : monthly means/totals, standard deviations
                   annual means/totals, data as measured/observed
FREQUENCY/GRID : wind at 2300, 0500, 1100, 1700 GMT; other elements at 1100 GMT
SITES / LEVELS : wind at 80 to 90 stations, other elements at 50 to 55 stations (not all these sites are currently open)
MEDIA DETAILS : magnetic tape at 6250 bpi (800 and 1600 bpi also available);
                 monthly means are available on microfiche
VOLUME OF DATA : 3 tapes; 3 microfiche
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : manuscript returns from Australian-owned stations
REMARKS : varying periods of record
CENTRE 505A (1987)
National Climate Centre, Bureau of Meteorology - Australia

#0104 (A.505) : AIRCRAFT (AOIS) DATA - EUROPE, N. ATLANTIC, SOME SE ASIA, AUSTRALIA
see pages Cat: A Area: 18 (centre 690A, data set #0104)

#0730 (A.525) : RADIOSONDE/RAWIND/PILOT WIND - BRUNEI DARUSSALAM
FORM AND MEDIA : 1 set; computer-readable, original
PERIOD : 1978-current (see below)
AREA : Brunei Darussalam
ELEMENTS : temperature(air), humidity
           wind, pressure(air), tropopause
ARRANGEMENT : per station
STATISTICS/DATA : daily means/totals, annual means/totals
                   monthly means/totals, data as measured/observed
DETAILS : area is the whole of Brunei Darussalam (2,226 sq miles);
          start date is 1978 for pilot wind, 1979 for radiosonde/rawind
                   rawind: twice daily;
                   pilot wind: 4 times daily from 1978, thrice daily from 1979
SITES / LEVELS : 1 land station: Brunei International Airport
MEDIA DETAILS : diskette; paper
QUALITY CONTROL : as in CLICOM
REMARKS : data does not get published; only sent as CLIMAT TEMP messages
          on GTS
CENTRE 525A (1987)
Brunei International Airport, Meteorological Office - Brunei Darussalam

#0830 (A.535) : UPPER-AIR DATA - FRENCH POLYNESIA
FORM AND MEDIA : 6 sets; original
PERIOD : 1976-current (see below)
AREA : French Polynesia
ELEMENTS : temperature(air), humidity
           wind, pressure(air), geopotential
ARRANGEMENT : per station
STATISTICS/DATA : monthly means/totals, data as measured
                   annual means/totals, derived from measured
                   standard deviations
DETAILS : area is French Polynesia in the South Central Pacific
FREQUENCY/GRID : once per day at 0000 GMT
SITES / LEVELS : 1 land stations; standard pressure levels between the surface
                 and the level 18 mb
QUALITY CONTROL : pre-established limits checks

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Areas within countries

#0830 (A.535) : (continued)
REMARKS : concerning radiosonde measurements, data before 1976 is available at the centre but is not analysed because of a lack of homogeneity
CENTRE 535A (1987) Polynésie Française - Tahiti - Service de la Météorologie

#0297 (A.545) : MONTHLY UPPER-AIR DATA - REPUBLIC OF INDONESIA
FORM AND MEDIA : 1 set; computer-readable, published, original
PERIOD : 1971-1983 (see below)
AREA : Indonesia
ELEMENTS : temperature(air) humidity
wind heights of levels
pressure(air) tropopause
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA : derived from measured/observed
PUBLISHED AS : monthly means/totals
DETAILS : for humidity: relative humidity
FREQUENCY/GRID : 1 obs/day
SITES / LEVELS : 5 land stations; heights of levels are the significant levels
MEDIA DETAILS : statistical tables (covering period 1960-1971) and manuscripts
QUALITY CONTROL : internal quality control
PUBLISHED : monthly temperature, humidity, resultant wind and height of every level in geopotential decameter at every standard significant and freezing level plus tropopause
freq./size : yearly; period covered 1976-1979; 110 pages
title : Data Udara Atas di Indonesia
author/editor : Drs. C. Sutrisno
publisher : Pusat Meteorologi dan Geofisika - Jakarta
enquiry addr. : centre 545A
CENTRE 545A (1987) Meteorological and Geophysical Agency - Indonesia

#0494 (A.565) : RADIOSONDE DATA FOR NOUÉA (NEW CALEDONIA)
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1963-current
AREA : New Caledonia
ELEMENTS : temperature(air) humidity
wind heights of levels
pressure(air)
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 1 obs/day
SITES / LEVELS : 1 station: Nouéa
MEDIA DETAILS : magnetic tape, EBCDIC, 9-track, 1600 bpi
VOLUME OF DATA : 1 or more tapes
ORIGIN OF DATA : Meteorological Service of France (centre 625A)

#0590 (A.580) : UPPER-AIR OBSERVATIONS (WIND) - PHILIPPINES
FORM AND MEDIA : 1 set; published, original
PERIOD : 1951-1970
AREA : Philippines
ELEMENTS : wind
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 2 obs/day
derived from measured/observed
SITES / LEVELS : 14 pilot balloon stations; lower level
MEDIA DETAILS : cards
QUALITY CONTROL : manual
PUBLISHED AS : case study
freq./size : once
title : Mean Streamlines and Isotachs for Selected Pressure Levels
over SE Asia and Adjacent Areas
author/editor : Asuncion, J.F., and Parong, E.
publisher : National Weather Office (NWO), centre 580A; 1980; Quezon City
enquiry addr. : NWO, centre 580A
#0599 (A.580) (continued)
CENTRE 580A (1987)
Philippine Atmospheric, Geophysical & Astronomical Services Administration

#0299 (A.585) : RADIOSONDE DATA - SINGAPORE
FORM AND MEDIA : 1 set; published, original
PERIOD : 1954-current
AREA : Singapore
eLEMENTS : temperature(air) humidity
data:
pressure(air) heights of levels
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
PUBLISHED AS : regular summary
FREQUENCY/GRID : 1 obs/day till 31 December 1983; 2 obs/day from 1 January 1984
SITES / LEVELS : 1 station
MEDIA DETAILS : manuscript
PUBLISHED : daily observational data (in English)
 freq./size : annual; 255 pages (195 pages prior to 1984)
title : Upper-Air Data
publisher : centre 585A; published in June
CENTRE 585A (1987)
Meteorological Service Singapore

#0300 (A.585) : PILOT BALLOON/RADIOWIND DATA - SINGAPORE
FORM AND MEDIA : 1 set; original
PERIOD : 1948-current
AREA : Singapore
eLEMENTS : wind
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 2 obs/day pilot balloon; 2 obs/day radiowind
SITES / LEVELS : 1 station
MEDIA DETAILS : manuscript
CENTRE 585A (1987)
Meteorological Service Singapore

#0231 (A.605) : RADIOSONDE DATA - NORTHERN HEMISPHERE AND AUSTRIA
see pages Cat: A Area: 02 (centre 605A, data set #0231)

#0342 (A.609) : UPPER-AIR DATA OF UCCLE - BELGIUM
FORM AND MEDIA : 1 set; computer-readable, published
PERIOD : 1956-current
AREA : Belgium
eLEMENTS : temperature(air) heights of levels
wind tropopause
humidity geopotential
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
PUBLISHED AS : chronology/time series
FREQUENCY/GRID : 2 obs/day at 0000 and 1200 GMT
SITES / LEVELS : 1 site: Uccle (radiosonde station)
MEDIA DETAILS : magnetic tape, 9-track, 6250 bpi, formatted
VOLUME OF DATA : 2 reels
PUBLISHED : surface: atmospheric pressure & air temperature;
 freq./size : at 5-year intervals
 free air: temperature, geopotential, mixing ratio, relative
 humidity, wind speed & direction
 title : Observations aérologiques à la station d'Uccle; statistiques
 enquity addr. : centre 609A
CENTRE 609A (1988)
institut royal météorologique de Belgique (IRMB)

#0235 (A.612) : RADIOSONDE DATA - BULGARIA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1960-current
AREA : Bulgaria
ELEMENTS : temperature(air) heights of levels
wind
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 2 obs/day

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### Areas within countries

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>612</td>
<td>Cruceia</td>
</tr>
<tr>
<td>616</td>
<td>Cyprus</td>
</tr>
<tr>
<td>617</td>
<td>Czecho-Slovakia</td>
</tr>
</tbody>
</table>

### #0235 (A.612)
- **Sites / Levels**: 2 stations
- **Media Details**: magnetic tape, EBCDIC, 9-track, 800 bpi
- **Quality Control**: limits checks
- **Centre**: 612A (1984)

### #0737 (A.616)
- **Form and Media**: group of sets; original
- **Period**: 1982-current
- **Area**: Cyprus
- **Elements**: temperature (air), humidity, wind pressure (air), heights of levels, tropopause
- **Arrangement**: per station
- **Statistics/Data**: data as measured/observed
- **Details**: for humidity: relative humidity
- **Frequency/Grid**: 1 obs/day at 1200 GMT; 1 obs/day at 0600 GMT for wind
- **Sites / Levels**: 1 station
- **Media Details**: manuscript
- **Quality Control**: manual
- **Centre**: 616A (1987)

### #0306 (A.617)
- **Form and Media**: 1 set; computer-readable, published
- **Period**: 1981-1982 (see below)
- **Area**: Czecho-Slovakia
- **Elements**: temperature (air), humidity, wind pressure (air), heights of levels, tropopause
- **Arrangement**: per station
- **Statistics/Data**: hourly means/ totals
- **Details**: scientific experiment report
- **Frequency/Grid**: 4 obs/day
- **Sites / Levels**: 1 station (N 49 02, E 020 19); 14 isobaric levels; prominent levels of temperature and wind
- **Media Details**: magnetic tape
- **Quality Control**: automated check of heights of isobaric levels
- **Origin of Data**: data are stored also in IADC APEX and in the World Data Centre for Meteorology: A (Washington D.C.) and B (Moscow); subject no. 12
- **Published**: see DETAILS above
- **Title**: 1) Research Atmospheric Processes in the Tatras within the international Experiment; 2) set of reports in internal periodical
- **Author/Editor**: 1) Meteorologické Zpravy (Meteorological Bulletin) - centre 617A; 2) centre 617B
- **Publisher**: 1) SMTL Prague; 1984
- **Centre**: 617B (1987)

### #0480 (A.617)
- **Form and Media**: 1 set; published, original
- **Period**: 1961-1970
- **Area**: Czecho-Slovakia
- **Elements**: temperature (air), humidity, wind pressure (air), heights of levels
- **Arrangement**: per station
- **Statistics/Data**: monthly means/ totals
- **Published**: climatological tables
- **Frequency/Grid**: 2 obs/day
- **Sites / Levels**: 2 stations, 12 isobaric levels
- **Media Details**: hard copy
- **Quality Control**: visual

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Areas within countries

#0480 (A.617) : (continued)
PUBLISHED : mean monthly data, frequencies of mentioned elements in chosen intervals; collection of papers "Mesoclimatic Characteristics" was done within the framework of RG KNIR according to standard processing methods
freq./size : 1 volume
title : Aeroclimatic Characteristics (Standard Isobaric Levels)
author/editor: centre 617B
CENTRE 617B (1987)
Slovak Hydrometeorological Institute - Czechoslovakia

#0237 (A.620) : UPPER-AIR OBSERVATIONS - DENMARK AND GREENLAND
FORM AND MEDIA : 1 set; computer-readable, original
PERIOD : 1948-current
AREA : Denmark
Greenland
ELEMENTS : temperature(air) humidity
wind
pressure(air)
heights of levels
ARRANGEMENT : per station horizontal levels
STATISTICS/DATA: derived from measured/observed
DETAILS: area includes Faeroes
FREQUENCY/GRID : 2 TEMP§s and 2 rawins from Kastrup;
2 TEMP§s from all other stations
SITES / LEVELS : 8 stations most of the time; up to a maximum of 20 levels
MEDIA DETAILS : 1961-present on magnetic tape (1600 bpi, ASCII);
earlier observations in manuscript form
VOLUME OF DATA : about 25 reels
QUALITY CONTROL: manual
CENTRE 620A (1984)
Danish Meteorological Institute

#0741 (A.623) : UPPER-AIR DATA - FINLAND
FORM AND MEDIA : 1 set; computer-readable, published
PERIOD : 1961-current
AREA : Finland
ELEMENTS : temperature(air) humidity
wind
pressure(air)
heights of levels
tropopause
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
PUBLISHED AS : climatological tables
DETAILS: data includes type of the sonde
FREQUENCY/GRID : 2 obs/day at 0600 and 1800 GMT (all elements);
2 obs/day at 0600 and 1800 GMT (wind & pressure)
SITES / LEVELS : 3 stations
MEDIA DETAILS : magnetic tape, 9-track, 1600 bpi
VOLUME OF DATA : 4 reels
QUALITY CONTROL: automated
PUBLISHED : see description of data centre: 623A Finland
CENTRE 623A (1987)
Finnish Meteorological Institute

#246 (A.625) : UPPER-AIR DATA - FRANCE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1949-current
AREA : France
ELEMENTS : temperature(air) humidity
wind
pressure(air)
heights of levels
tropopause
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : 2 obs/day; 4 obs/day for wind data
SITES / LEVELS : 8 stations
MEDIA DETAILS : magnetic tape, 6250 bpi
VOLUME OF DATA : 8 tapes
QUALITY CONTROL: manual and automated
CENTRE 625A (1984)
Direction de la Météorologie - France
Areas within countries

Cat: A    Country: 628 629 635

#0356 (A.628) : RADIOSONDE DATA - GERMAN DEMOCRATIC REPUBLIC
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1957-current
AREA : German Democratic Republic
ELEMENTS : temperature(air)  humidity
           wind
           pressure(air)  heights of levels
tropopause
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : 2 to 4 obs/day
SITES / LEVELS : 4 stations
MEDIA DETAILS : punched cards or magnetic tape
CENTRE 629A (1987)

Meteorologischer Dienst - German Democratic Republic

#0077 (A.629) : UPPER-AIR DATA - FEDERAL REPUBLIC OF GERMANY
FORM AND MEDIA : 7 sets; computer-readable,published
PERIOD : 1947-current (see below)
AREA : Federal Republic of Germany
ELEMENTS : wind  heights of levels
           temperature(air)  layer thickness
           pressure(air)  tropopause
           humidity
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
                monthly means/ totals
                annual means/ totals
                monthly extremes
PUBLISHED AS : regular summary
FREQUENCY/GRID : TEMP: 2 obs/day; pilot: 2 obs/day
SITES / LEVELS : 9 aerological land stations: 10035, 10202, 10338, 10384,
                 10410, 10739, 10866 -10868
MEDIA DETAILS : observed data are available on magnetic tape (1600 bpi, EBCDIC); data for 1974-1977 not available on magnetic tape
VOLUME OF DATA : 1% tapes
QUALITY CONTROL : no control for data from 1947 to 1980
PUBLISHED : monthly and yearly summaries of aerological data from 1953
freq./size : yearly
title : Deutsches Meteorologisches Jahrbuch (DK 55.506.1)
publisher : centre 629A
CENTRE 629A (1986)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#0078 (A.629) : ALPEX UPPER-AIR DATA - FEDERAL REPUBLIC OF GERMANY
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1981-1982
AREA : Federal Republic of Germany
ELEMENTS : wind  pressure(air)  humidity
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : AOP: 2 obs/day; SOP: 4 obs/day to 8 obs/day
SITES / LEVELS : land stations
MEDIA DETAILS : magnetic tape, 1600 bpi, EBCDIC
QUALITY CONTROL : adiabatic test, hydrostatic test, etc.
ORIGIN OF DATA : network of Deutscher Wetterdienst (629A)
CENTRE 629A (1984)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#0752 (A.629) : MONTHLY CLIMATE REPORT - FEDERAL REPUBLIC OF GERMANY
see pages Cat: B Country: 629 (centre 629A, data set #0752)

#0753 (A.629) : 200 YEARS METEOROLOGICAL OBSERVATIONS AT HOHENPEISSENBERG - FEDERAL REPUBLIC OF GERMANY
see pages Cat: B Country: 629 (centre 629A, data set #0753)

#0260 (A.635) : RADIOSONDE DATA - GREECE
FORM AND MEDIA : 1 set; computer-readable,published
PERIOD : 1956-current
AREA : Greece
ELEMENTS : temperature(air)  humidity
           wind
           pressure(air)  heights of levels
ARRANGEMENT : per station

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#0269  (A.635) :  (continued)  

STATISTICS/DATA: data as measured/observed  
PUBLISHED AS: chronology/time series  
FREQUENCY/GRID: 2 obs/day  
SITES / LEVELS: 1 station  
MEDIA DETAILS: magnetic tape, 800 or 1600 or 6250 bpi, 9-track  
PUBLISHED: daily and mean monthly values of temperature, pressure, humidity and wind at standard levels; language of publication: Greek and English  
freq./size: monthly; 24 pages  
title: Monthly Climatological Bulletin  
publisher: centre 635A  
CENTRE 635A (1987)  
Hellenic National Meteorological Service - Greece  

#0237  (A.636) :  UPPER-AIR OBSERVATIONS - DENMARK AND GREENLAND  see pages  
Cat: A Country: 620 (centre 620A, data set #0237)  

#0262  (A.639) :  UPPER-AIR DATA - HUNGARY  
FORM AND MEDIA: 2 sets; computer-readable,microform,published  
PERIOD: 1962-current (see below)  
AREA: Hungary  
ELEMENTS: temperature(air), humidity, wind, heights of levels  
ARRANGEMENT: per station, horizontal levels  
STATISTICS/DATA: derived from measured/observed  
PUBLISHED AS: regular summary  
FREQUENCY/GRID: Budapest: 4 obs/day; Szeged: 2 obs/day  
SITES / LEVELS: all main isobaric levels  
MEDIA DETAILS: magnetic tape; since 1978 on microfiche (inserted in the yearbook)  
VOLUME OF DATA: 1 reel per set  
QUALITY CONTROL: automated programmed & manual  
PUBLISHED: upper-air measurements, Budapest & Szeged  
freq./size: yearly  
title: Yearbooks of the Hungarian Meteorological Service, Part 2  
publisher: centre 639A  
CENTRE 639A (1987)  
Meteorological Service of the Hungarian People's Republic  

#0843  (A.642) :  UPPER-AIR DATA - ICELAND  
FORM AND MEDIA: 1 set; original  
PERIOD: 1952-current  
AREA: Iceland  
ELEMENTS: temperature(air), humidity, wind, pressure(air), heights of levels, geopotential, humidity  
ARRANGEMENT: per station  
STATISTICS/DATA: data as measured/observed  
FREQUENCY/GRID: 2-4 daily observations  
SITES / LEVELS: 1 upper-air station  
QUALITY CONTROL: manual  
REMARKS: at the moment, not available in computer-readable form  
CENTRE 642A (1987)  
The Icelandic Meteorological Office  

#0617  (A.645) :  UPPER-AIR ASCENTS AT VALENTIA OBSERVATORY - IRELAND  
FORM AND MEDIA: 1 set; computer-readable  
PERIOD: 1955-current  
AREA: Ireland  
ELEMENTS: temperature(air), humidity, wind, pressure(air), heights of levels, tropopause  
ARRANGEMENT: per station  
STATISTICS/DATA: monthly means/totals, monthly extremes, data as measured/observed  
FREQUENCY/GRID: 2 radiosondes per day; 2 extra wind ascents  
SITES / LEVELS: 1 station, Valentia observatory, at N 51 56, W 010 14  
MEDIA DETAILS: magnetic tape, ASCII or EBCDIC, 9-track, 1600 bpi

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Areas within countries

#0617 (A.645) : (continued)
VOLUME OF DATA : 4 tapes
QUALITY CONTROL: yes
ORIGIN OF DATA : Irish upper-air ascent
CENTRE 645A (1988)
Irish Meteorological Service

#0850 (A.646) : UPPER-AIR DATA - ISRAEL
FORM AND MEDIA : 2 sets; computer-readable, original
PERIOD : 1958–current
AREA : Israel
ELEMENTS : temperature(air) layer thickness
temperature(air) tropopause
pressure(air) freezing level
humidity inversion
heights of levels
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
data as measured/observed
derived from measured/observed
FREQUENCY/GRID : 2 obs/day
SITES / LEVELS : 1 station; standard & significant levels
MEDIA DETAILS : magnetic tape, 1600 bpi
QUALITY CONTROL: hydrostatic checks
CENTRE 646A (1987)
Israel Meteorological Service

#0762 (A.651) : UPPER-AIR DATA - JORDAN
FORM AND MEDIA : 1 set; original
PERIOD : 1963–current
AREA : Jordan
ELEMENTS : temperature(air) humidity
pressure(air) heights of levels
tropopause
ARRANGEMENT : per station
STATISTICS/DATA: daily means/totals
monthly means/total monthly extremes
monthly means/total annual extremes
annual means/total normals
daily extremes
DETAILS : for humidity: dew point at standard levels
FREQUENCY/GRID : twice per day at 0000 and 1200 GMT
SITES / LEVELS : 1 land station: Mafraq
MEDIA DETAILS : manuscript
CENTRE 651A (1987)
Jordan Meteorological Department

#0996 (A.661) : RAWINSONDE MEASUREMENTS - DE BILT (NETHERLANDS)
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1946–current
AREA : Netherlands
ELEMENTS : temperature(air) humidity
pressure(air) tropopause
ARRANGEMENT : profiles
STATISTICS/DATA: data as measured/observed
DETAILS : dew point for humidity
FREQUENCY/GRID : 2 obs/day
SITES / LEVELS : 1 station; standard levels and characteristic points
MEDIA DETAILS : magnetic tape, 9-track, 1600 bpi, EBCDIC
VOLUME OF DATA : 6 reels
QUALITY CONTROL: manual and automated
ORIGIN OF DATA : local
REMARKS : the data will be archived in a data base system
CENTRE 661A (1984)
Koninklijk Nederlands Meteorologisch Instituut (KNMI) - Netherlands

#0923 (A.666) : AEROLOGICAL DATA SETS - POLAND
FORM AND MEDIA : group of sets; computer-readable, published, original
PERIOD : 1961–current (see below)
AREA : Poland
ELEMENTS : temperature(air) heights of levels
wind
pressure(air) layer thickness
tropopause

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Areas within countries

#0923 (A.666): (continued)
ELEMENTS: humidity, cloud ceiling
ARRANGEMENT: per station
STATISTICS/DATA: hourly means/totals, annual means/totals, daily frequencies, monthly frequencies
PUBLISHED AS: climatological tables
DETAILS: the data comprises both as measured/observed and derived from measured observed;
original set: cloud ceiling, HPTUW (height/ pressure/ temperature/ humidity/ wind) on main isobaric surfaces(1,000-10hpa) & characteristic points;
processed set: specific humidity, air density, wind components, dew-point deficit, precipitable water, gradients of: temperature and wind (direction / speed) on 15 main isobaric surfaces, 33 standard heights and 12 boundary layer levels
FREQUENCY/GRID: pressure, temperature, humidity and wind at 0000 and 1200 GMT;
wind also at 0600 and 1800 GMT
SITES / LEVELS: 3 land and 1 coastal stations
MEDIA DETAILS: magnetic tape
VOLUME OF DATA: data set no. characters (1961-85) increase per year
original HPTUW: 112.5 million + 4.5 million
wind 40.0 million + 2.0 million
processed HPTUW: 125.0 million + 3.0 million
wind 52.5 million + 2.5 million
PUBLISHED: statistical characteristics of original and processed data
TITLE: Informator Aeroklimatyczny dla atmosfery swobodnej T.1 Główne powierzchnie izobaryczne
enquiry addr.: centre 666A
CENTRE 666A (1989)
Institute of Meteorology and Water Management (IMGW) - Poland

#1086 (A.666): ALPEX UPPER-AIR EXPERIMENTAL DATA - POLAND
FORM AND MEDIA: 5 sets; computer-readable, original
PERIOD: 1981-1982 (see below)
AREA: Poland
ELEMENTS: temperature (air), heights of levels, wind, humidity
ARRANGEMENT: per station
STATISTICS/DATA: data as measured/observed
DETAILS: files and periods of soundings:
-radiosonde, 1 station, Oct 1981 & March 1982, 0600 & 1200 GMT;
-pilotage, upper level 3000m, 1 station, Oct 1981 & Sept 1982, 0600 and 1200 GMT;
-captive balloon sounding, upper level 1000m, 1 station, Oct 1981, March 1982 & Sept 1982, 0600 & 1200 GMT;
-near the ground air trajectory with level-headed balloon, Oct 1981 & March 1982;
-acoustic sounding, SODAR registration, 1 station, March & Sept 1982
SITES / LEVELS: 1 station at Nowy Targ: radio soundings;
1 station at Zakopane: other soundings
MEDIA DETAILS: manuscript; acoustic soundings on microfilm; partly on diskette
ORIGIN OF DATA: direct measurement and registration
REMARKS: aerological data centre: Doc. dr Zenobia Litynska,
Department of Aerology
Inst. of Meteorology & Water Management, 05-120 Legisnowo;
ul. Zegrzynska 38, Poland
acoustic sounding data centre:
centre 666E
CENTRE 666E (1988)
Institute of Meteorology & Water Management (IMGW) - Poland
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<th>#0505 (A.667)</th>
<th>NATIONAL RADIOSONDE DATA - PORTUGAL, AZORES AND MADEIRA</th>
</tr>
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<tbody>
<tr>
<td><strong>FORM AND MEDIA</strong></td>
<td>1 set; published, original</td>
</tr>
<tr>
<td><strong>PERIOD</strong></td>
<td>1947-current (see below)</td>
</tr>
<tr>
<td><strong>AREA</strong></td>
<td>Portugal</td>
</tr>
<tr>
<td><strong>ELEMENTS</strong></td>
<td>temperature (air) humidity wind pressure (air) heights of levels tropopause</td>
</tr>
<tr>
<td><strong>ARRANGEMENT</strong></td>
<td>per station</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA</strong></td>
<td>data as measured/observed</td>
</tr>
<tr>
<td><strong>PUBLISHED AS</strong></td>
<td>regular summary</td>
</tr>
<tr>
<td><strong>DETAILS</strong></td>
<td>area includes Azores and Madeira</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID</strong></td>
<td>0000 and 1200 GMT (normally)</td>
</tr>
<tr>
<td><strong>SITES / LEVELS</strong></td>
<td>3 stations: 1 station in Portugal from 1947 Lagos (Azores) from 1947 Funchal (Madeira) from 1948</td>
</tr>
<tr>
<td><strong>MEDIA DETAILS</strong></td>
<td>manuscript media</td>
</tr>
<tr>
<td><strong>QUALITY CONTROL</strong></td>
<td>limits check; internal consistency</td>
</tr>
<tr>
<td><strong>PUBLISHED</strong></td>
<td>all above-mentioned elements</td>
</tr>
<tr>
<td><strong>freq./size</strong></td>
<td>yearly</td>
</tr>
<tr>
<td><strong>title</strong></td>
<td>Anuario Climatologico de Portugal - IV Parte</td>
</tr>
<tr>
<td><strong>author/editor</strong></td>
<td>centre 667A</td>
</tr>
<tr>
<td><strong>CENTRE 667A (1987)</strong></td>
<td>Instituto Nacional de Meteorologia e Geofisica (INMG) - Portugal</td>
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<table>
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<tr>
<th>#0857 (A.669)</th>
<th>UPPER-AIR DATA - ROMANIA</th>
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</thead>
<tbody>
<tr>
<td><strong>FORM AND MEDIA</strong></td>
<td>group of sets; computer-readable, published, original</td>
</tr>
<tr>
<td><strong>PERIOD</strong></td>
<td>1948-current (see below)</td>
</tr>
<tr>
<td><strong>AREA</strong></td>
<td>Romania</td>
</tr>
<tr>
<td><strong>ELEMENTS</strong></td>
<td>temperature (air) heights of levels wind tropopause pressure (air) geopotential humidity</td>
</tr>
<tr>
<td><strong>ARRANGEMENT</strong></td>
<td>per station horizontal levels</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA</strong></td>
<td>monthly means/ totals monthly frequencies annual means/ totals annual frequencies monthly extremes annual extremes data as measured/observed</td>
</tr>
<tr>
<td><strong>PUBLISHED AS</strong></td>
<td>regular summary climatological tables case study</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID</strong></td>
<td>2 obs/day at 0000 and 1200 GMT</td>
</tr>
<tr>
<td><strong>SITES / LEVELS</strong></td>
<td>3 stations: 15120 at N 46 47, E 023 40, 410m; 15420 at N 44 29, E 026 08, 100m; 15480 at N 44 10, E 028 37, 14m; standard isobaric levels: 1000, 850, 700, 500, 400, 300, 250, 200, 150, 100, 70, 50, 30, 20, 10hpa</td>
</tr>
<tr>
<td><strong>MEDIA DETAILS</strong></td>
<td>manuscript (1948-now); magnetic tape (1961-1985)</td>
</tr>
<tr>
<td><strong>VOLUME OF DATA</strong></td>
<td>3 magnetic tapes</td>
</tr>
<tr>
<td><strong>QUALITY CONTROL</strong></td>
<td>manual control by comparative analysis &amp; formal validity check</td>
</tr>
<tr>
<td><strong>PUBLISHED</strong></td>
<td>data are published in regular summary (year book) until 1968</td>
</tr>
<tr>
<td><strong>freq./size</strong></td>
<td>yearly</td>
</tr>
<tr>
<td><strong>title</strong></td>
<td>Anuar Aerologic</td>
</tr>
<tr>
<td><strong>author/editor</strong></td>
<td>centre 669A</td>
</tr>
<tr>
<td><strong>CENTRE 669A (1987)</strong></td>
<td>Institute of Meteorology and Hydrology - Romania</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#0863 (A.672)</th>
<th>UPPER-AIR DATA (SONDE) - SPAIN</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FORM AND MEDIA</strong></td>
<td>1 set; computer-readable, published, original</td>
</tr>
<tr>
<td><strong>PERIOD</strong></td>
<td>1954-current (see below)</td>
</tr>
<tr>
<td><strong>AREA</strong></td>
<td>Spain</td>
</tr>
<tr>
<td><strong>ELEMENTS</strong></td>
<td>temperature (air) heights of levels wind layer thickness pressure (air) tropopause humidity geopotential</td>
</tr>
<tr>
<td><strong>ARRANGEMENT</strong></td>
<td>per station</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA</strong></td>
<td>data as measured/observed</td>
</tr>
<tr>
<td><strong>PUBLISHED AS</strong></td>
<td>weather review</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID</strong></td>
<td>2 obs/day from 1960</td>
</tr>
</tbody>
</table>
#0863 (A.672) : (continued)

| SITES / LEVELS | Zaragoza       | (1960-1965) |
|               | Murcia         | (from 1985) |
|               | Santander     | (from 1986); standard and significant levels |

**MEDIA DETAILS** : manuscript and magnetic tape (from 1978)

**VOLUME OF DATA** : data from 50,000 sondes

**QUALITY CONTROL** : internal consistency

**REMARKS** : from 1971 included in the Monthly Climatic Data for the World: Madrid, La Coruña and Palma

**PUBLISHED** : monthly data from 1965 and daily data for 1966-1971

**title** : 1) Boletín Climatológico (from 1965); 2) Boletín Meteorológico Diario (1966-1971)

**author/editor** : Servicio de Climatología

**publisher** : centre 672A

**CENTRE 672A (1987)**

Instituto Nacional de Meteorología - Spain

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#0276 (A.676) : UPPER-AIR DATA - SWITZERLAND

**FORM AND MEDIA** : 1 set; computer-readable, published

**PERIOD** : 1969-current

**AREA** : Switzerland

**ELEMENTS** : temperature(air) heights of levels, tropopause

wind humidity

**ARRANGEMENT** : per station

**STATISTICS/DATA** : monthly means/total, annual means/total, monthly extremes

**PUBLISHED AS** : regular summary, yearbook

**FREQUENCY/GRID** : 2 obs/day

**SITES / LEVELS** : 1 station; standard levels only

**MEDIA DETAILS** : magnetic tape

**QUALITY CONTROL** : limited checks

**PUBLISHED** : summary & yearbook

**freq./size** : monthly; annual

**title** : Climat Suisse; Annalen der Schweiz. Meteo. Anstalt

**enquiry addr.** : centre 676A

**CENTRE 676A (1984)**

Schweizerische Meteorologische Anstalt - Switzerland

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#1093 (A.676) : ALPEX UPPER-AIR DATA (RADIOSONDE) - SWITZERLAND

**FORM AND MEDIA** : 1 set; computer-readable

**PERIOD** : 1981-1982 (see below)

**AREA** : Switzerland

**ELEMENTS** : temperature(air) heights of levels, tropopause

wind humidity

**ARRANGEMENT** : per station

**STATISTICS/DATA** : data as measured/observed


**FREQUENCY/GRID** : AOP: 2 obs/day; SOP: 4 obs/day (4 days with 6 to 7 obs/day)

**SITES / LEVELS** : AOP: 1 station; SOP: 4 stations

**MEDIA DETAILS** : magnetic tapes

**QUALITY CONTROL** : limited checks

**CENTRE 676A (1988)**

Schweizerische Meteorologische Anstalt - Switzerland

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#0766 (A.677) : MONTHLY UPPER-AIR DATA - SYRIAN ARAB REPUBLIC

**FORM AND MEDIA** : 1 set; published, original

**PERIOD** : 1956-current (see below)

**AREA** : Syrian Arab Republic

**ELEMENTS** : temperature(air) heights of levels, tropopause, geopotential

wind pressure(air) humidity

**ARRANGEMENT** : per station

**STATISTICS/DATA** : hourly means/total, monthly extremes

**PUBLISHED** : data as measured/observed

**DETAILS** : monthly means/total, monthly means/total

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Areas within countries

#0766 (A.677) : (continued)
PUBLISHED AS : climatological tables
FREQUENCY/GRID : 2 obs/day at 0000 and 1200 GMT
SITES / LEVELS : 2 radiosonde stations; standard levels
PUBLISHED : all items mentioned above
  freq./size : monthly 1960 - 1975
  title : Monthly Climatological Data
centre 6777 (1987)
Climate Section, Climatological Department - Syrian Arab Republic

#0126 (A.690) : GEOSTROPHIC/GRADIENT WINDS - UNITED KINGDOM
FORM AND MEDIA : 5 sets; computer-readable
PERIOD : 1957-1981 (see below)
AREA : United Kingdom
ELEMENTS : wind
ARRANGEMENT : per station
STATISTICS/DATA : values as measured from charts
DETAILS : wind : geostrophic and/or gradient wind
FREQUENCY/GRID : hourly or 6-hourly
SITES / LEVELS : 5 sites: Glasgow Airport, Watnall, Kinloss, Leuchars, Topcliffe/Leeming
MEDIA DETAILS : magnetic tape, 9-track, EBCDIC
VOLUME OF DATA : 2 tapes
QUALITY CONTROL : yes
ORIGIN OF DATA : derived from charts
REMARKS : periods vary from 5 years to 13 years
centre 6900 (1984)
Meteorological Office - United Kingdom

#0127 (A.690) : 900 METRE/MILLIBAR WIND DATA SET - UNITED KINGDOM
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1948-1981
AREA : United Kingdom
ELEMENTS : wind
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA : data as measured/observed
DETAILS : wind: 900 m/mb wind
FREQUENCY/GRID : 6-hourly
SITES / LEVELS : United Kingdom upper-air stations
MEDIA DETAILS : magnetic tape, 9-track, EBCDIC
VOLUME OF DATA : 1 tape
QUALITY CONTROL : none
ORIGIN OF DATA : upper-air reports
centre 6900 (1988)
Meteorological Office - United Kingdom

#0320 (A.695) : RADIOSONDE DATA - YUGOSLAVIA
FORM AND MEDIA : 2 sets; computer-readable, published
PERIOD : 1956-1980 (see below)
AREA : Yugoslavia
ELEMENTS : temperature (air)
  wind
  pressure (air)
  humidity
  cloud ceiling
  heights of levels
  layer thickness
  tropopause
ARRANGEMENT : per station
STATISTICS/DATA : monthly means/totals
  derived from measured/observed
PUBLISHED AS : yearbook
FREQUENCY/GRID : 2 obs/day at 01 and 13 hours local time
SITES / LEVELS : 2 stations; surface, 13 standard pressure levels & tropopause
MEDIA DETAILS : data transmission onto magnetic tapes is in progress
QUALITY CONTROL : normal
ORIGIN OF DATA : network of Yugoslav Meteorological Service
REMARKS : 1962-1980 2 stations; 1956-1962 1 station
PUBLISHED : first publication was in 1953 (on-going from then)
  freq./size : yearly; about 140 pages per issue
  title : 1951-1956 : Annuaire de l'observatoire aerologique a Belgrade;
         1957-1975 : Annuaire aerologique;
         1976-current: Meteorological Yearbook - Upper-air Observations
enquiry addr.: centre 695A

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Areas within countries

#0320 (A.695) : (continued)
CENTRE 695A (1988)
Federal Hydrometeorological Institute - Yugoslavia

#0321 (A.695) : ALPEX UPPER-AIR DATA - YUGOSLAVIA

FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1981-1982
AREA: Yugoslavia
ELEMENTS: temperature(air) pressure(air) wind humidity

ARRANGEMENT: synoptic arrangement
STATISTICS/DATA: data as measured/observed
DETAILS: ALPEX format
FREQUENCY/GRID: AOP: 2 obs/day; SOP: 4 obs/day to 8 obs/day
SITES / LEVELS: 2 stations; SOP 5 stations
MEDIA DETAILS: magnetic tape, 1600 bpi, EBCDIC
VOLUME OF DATA: 2 reels (1,200 ft)
QUALITY CONTROL: hydrostatic test
ORIGIN OF DATA: national
CENTRE 695A (1984)
Federal Hydrometeorological Institute - Yugoslavia
CATEGORY : B (Surface climatological data)

DATA SETS

GLOBAL/REGIONAL AREAS
#0178 (B.01) : MONTHLY MEANS OF CLIMATOLOGICAL DATA - GLOBAL
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1976-current
AREA : global
ELEMENTS : precipitation
          temperature(air)
          pressure(air)
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
DETAILS : statistics include quintile of monthly precipitation
SITES / LEVELS : about 1,400 stations per month
MEDIA DETAILS : magnetic tape, EBCDIC, 9-track, 800 or 1600 or 6250 bpi
VOLUME OF DATA : 4 reels
ORIGIN OF DATA : CLIMAT reports
CENTRE 253A (1984)
Japan Meteorological Agency (JMA)

#0464 (B.01) : SYNOPTIC SURFACE DATA - GLOBAL
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1967-current (see below)
AREA : global
ELEMENTS : precipitation
          temperature(max/min)
          humidity
          temperature(air)
          weather
          cloud
          wind
          pressure(air)
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA: data as measured/observed
DETAILS : received from U.S. NMC (National Meteorological Centre) as a result of GTS collections;
data in true synoptic order in ascending station number sort;
TD-965 contains data for 1967-80, basic WMO code groups;
TD-961 includes data from 1975 on, NMC decoded format (O/N-29)
FREQUENCY/GRID : 8 obs/day or according to WMO schedules
SITES / LEVELS : approximately 8,000 stations
MEDIA DETAILS : magnetic tape, 1600 bpi and 6250 bpi
VOLUME OF DATA : 369 reels of 1600 bpi; 244 reels of 6250 bpi
QUALITY CONTROL: some performed at NMC; retrospective restricted to elimination of duplicates and illegal characters
ORIGIN OF DATA : GTS via NMC
REMARKS : some similar data available for earlier periods and selected areas; period 1967-1978 observations contain first seven groups of FM-11 plus up to four added groups; 1979 onward all data retained
CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0465 (B.01) : GLOBAL SURFACE MONTHLY SUMMARIES
FORM AND MEDIA : 1 set; computer-readable, published
PERIOD : 1734-current (see below)
AREA : global
ELEMENTS : precipitation
          temperature(air)
          humidity
          sunshine duration
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
DETAILS : derived from measured/observed
          arranged chronologically by station; filed as TD-9645;
tapes are updated yearly
FREQUENCY/GRID : monthly means and departures
SITES / LEVELS : approximately 1500
MEDIA DETAILS : magnetic tape, 6250 bpi
VOLUME OF DATA : 2 reels
QUALITY CONTROL: some retrospective effort
ORIGIN OF DATA : WMO CLIMAT stations and World Weather Records
REMARKS : part of the "Monthly Climatic Data for the World" WMO project;
published data available since 1950, earlier data extracted from variety of sources including Clayton's weather records & put on magnetic tape; additional quality control done by centre 440C (National Center for Atmospheric Research - NCAR)
CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.
Global/regional areas

#0457 (B.01) : DAILY AND MONTHLY MEANS AND EXTREMES - GLOBAL
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1977-current
AREA : global
ELEMENTS : precipitation temperature(max/min) temperature(air) temperature(depth,coverage)
ARRANGEMENT : per station
STATISTICS/DATA : daily means/totals monthly extremes
DETAILS : derived daily and monthly means and extremes; arranged by station; all data summaries to Universal Time (TD-9618)
FREQUENCY/GRID : 1 derived obs/day
SITES / LEVELS : approximately 8000 locations
MEDIA DETAILS : magnetic tape, 1600 bpi
VOLUME OF DATA : 99 reels; accumulating at 1 reel/month
QUALITY CONTROL : unknown
ORIGIN OF DATA : GTS surface synoptic data
REMARKS : where possible, max/min temperatures were extracted from standard FM-11 GTS reports; in some cases statistical analysis was used to estimate temperature and precipitation from 3-hourly observations when no daily data was transmitted; coverage is normal WMO network

CENTRE 440A (1986)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0723 (B.01) : NIMBUS-7 THIR/TOMS GLOBAL CLOUD DATA SETS
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1979-1985 (see below)
AREA : global
ELEMENTS : cloud
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : daily means/totals monthly means/total standard deviations
FREQUENCY/GRID : Nimbus-7 Satellite is in a sun synchronous polar orbit with noon & midnight equator crossings; thus a given point on the earth is normally seen twice daily with some 12 hours between observations; CMATRIX presents time & space averaged data on an equal area world grid (2970 regions, each 500km x 500km); daily & monthly averages are given; NCLE presents orbital data averaged over sub-target areas; each CMATRIX region is subdivided into 9 parts on the NCLE tapes
MEDIA DETAILS : magnetic tape, 9-track (NCLE at 1600 bpi, CMATRIX at 6250 bpi)
VOLUME OF DATA : new cloud ERB (NCLE) - 1 tape/week;
CMATRIX - 1 tape/year for a total of 7 tapes
QUALITY CONTROL : checked for bad input data, for consistency & for qualitative reasonableness of the products
ORIGIN OF DATA : Nimbus-7 Temperature Humidity Infra-red Radiometer (THIR) & Total Ozone Mapping Spectrometer (TOMS) plus surface temperatures & snow/ice information from the Airforce
3D-Mehanalaysis archive
REMARKS : Airforce surface temperature data starts with April 1979, while March 1985 is last full month of full-time THIR operations; these events mark beginning & end of 6-year THIR/TOMS data set; separate THIR (11.5 microns) & TOMS (0.38 microns) cloud algorithms were used to estimate cloud cover & these 2 estimates were then combined to obtain a 'best' estimate cloud amount; at night only THIR cloud estimate can be calculated; THIR daylight cloud estimate is also given

CENTRE 440X (1987)
World Data Center A for Rockets and Satellites - U.S.A.

#0435 (B.01) : INFOHYDRO (HYDROLOGICAL INFORMATION REFERRAL SERVICE)
see pages Cat: H Area: 01 (centre 676W, data set #0435)

#0367 (B.01) : MONTHLY/ANNUAL MEANS OF SURFACE DATA FOR WORLD CLIMATOLOGICAL STATIONS
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1881-1973 (see below)
AREA : global
ELEMENTS : precipitation weather

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#0367 (B.01) : (continued)
ELEMENTS : temperature(max/min) cloud
           : temperature(air) evaporation
           : wind snow(depth,coverage)
           : pressure(air) sunshine duration
           : humidity
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
derived from measured/observed
annual means/totals seasonal means/totals
SITES / LEVELS : 2,500 stations
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 4 tapes
REMARKS : earliest year varies with station; period for each station is
          its beginning of record to 1973
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0377 (B.01) : SATELLITE DATA ON TOTAL CLOUDINESS AMOUNT - GLOBAL
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1966-1982 (see below)
AREA : global
ELEMENTS : cloud
ARRANGEMENT : satellite images APT
STATISTICS/DATA: daily means/totals
DETAILS : for cloud: total cloudiness amount
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : each set: 2 tapes
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0379 (B.01) : WORLD (EXCEPT U.S.S.R.) SYNOPTIC DATA FOR INDIVIDUAL YEARS
FORM AND MEDIA : 16 sets; computer-readable
PERIOD : 1964-1979
AREA : global
ELEMENTS : precipitation humidity
           : temperature(air) weather
           : wind
           : pressure(air) cloud
           : visibility
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
SITES / LEVELS : 558 N. and S. hemisphere stations (except U.S.S.R.)
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape per year
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0119 (B.01) : GLOBAL SYNOPTIC DATABASE
FORM AND MEDIA : database; computer-readable
PERIOD : 1974-current (see below)
AREA : global
ELEMENTS : temperature(air) weather
           : wind
           : pressure(air) cloud
           : humidity
           : visibility
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
DETAILS : humidity: wet-bulb, dew point, vapour pressure, relative
          humidity;
          cloud : significant cloud (8-groups) from some stations,
          main cloud group only from other stations
FREQUENCY/GRID : 3-hourly or 6-hourly depending on station
SITES / LEVELS : 430 stations, most are airports
MEDIA DETAILS : magnetic tape, 9-track, EBCDIC, 6250 bpi
VOLUME OF DATA : 7 tapes
QUALITY CONTROL: none
ORIGIN OF DATA : international exchanges via GTS
REMARKS : includes several non-airport stations, mostly in Europe;
           updated every year, at present 1986 is latest year
CENTRE 690A (1988)
Meteorological Office - United Kingdom
#0120 (B.01) : AERONAUTICAL CLIMATOLOGICAL SUMMARIES - GLOBAL

**FORM AND MEDIA** : 1 set; microform

**PERIOD** : 1974-1986

**AREA** : global

**ELEMENTS** : temperature(air)  weather
                   wind
                   pressure(air)  visibility

**ARRANGEMENT** : per station

**STATISTICS/DATA** : daily frequencies
                        monthly frequencies
                        annual frequencies

**DETAILS** : cloud: significant cloud(8-groups) from certain stations only;
               frequency analyses of cloud ceiling, visibility, significant
               weather, wind speed/direction, temperature, msl pressure

**FREQUENCY/GRID** : 3-hourly or 6-hourly depending on station

**SITES / LEVELS** : 430 stations, most are airports

**MEDIA DETAILS** : microfiche

**VOLUME OF DATA** : 2 microfiche per station

**QUALITY CONTROL** : some automated quality control

**ORIGIN OF DATA** : international exchanges via GTS

**REMARKS** : includes several non-airport stations, mostly in Europe;
                 a charge may be made for this product

CENTRE 690A (1988)
Meteorological Office - United Kingdom

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#0122 (B.01) : WORLDWIDE CLIMATOLOGICAL STATIONS

**FORM AND MEDIA** : 1 set; computer-readable, original

**PERIOD** : 1977-current

**AREA** : global

**ELEMENTS** : precipitation  humidity
                   temperature(air)  sunshine duration
                   pressure(air)

**ARRANGEMENT** : per station

**STATISTICS/DATA** : monthly means/averages
                        anomalies
                        counts of no. of days
                        rainfall quintiles
                        counts of no. of raindays

**DETAILS** : humidity; vapour pressure; also sunshine duration anomalies;
               counts of no. of rainy days

**SITES / LEVELS** : approximately 2,800 stations

**MEDIA DETAILS** : manuscript & magnetic tape

**VOLUME OF DATA** : 1 tape per year

**QUALITY CONTROL** : climatological checks

**ORIGIN OF DATA** : CLIMAT messages

CENTRE 690A (1984)
Meteorological Office - United Kingdom

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#0127 (B.01) : LAMB/JOHNSON HISTORICAL MONTHLY MEAN SURFACE PRESSURE CHARTS

- GLOBAL

**FORM AND MEDIA** : 1 set; computer-readable, published

**PERIOD** : 1750-1969  (see below)

**AREA** : global

**ELEMENTS** : pressure(air)

**ARRANGEMENT** : grid point analysis

**STATISTICS/DATA** : monthly means/averages

**PUBLISHED AS** : charts/atlas

**FREQUENCY/GRID** : monthly

**MEDIA DETAILS** : magnetic tape

**VOLUME OF DATA** : 1 tape

**PUBLISHED** : January & July msl pressure charts

**title** : Secular Variations of the Atmosphere Circulation since 1750
           (Geophysical Memoir 110)

**author/editor** : H.H. Lamb and A.I. Johnson

**publisher** : Her Majesty's Stationery Office (HMSO), London, 1966

**enquiry addr.** : Met. O. 13 - centre 690A

CENTRE 690A (1988)
Meteorological Office - United Kingdom

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#9944 (B.01) : ANEMOGRAPH STATIONS IN AREAS OF UNITED KINGDOM INTEREST

**FORM AND MEDIA** : 1 set; computer-readable, microform, original

**PERIOD** : 1973-current

**AREA** : global

**ELEMENTS** : wind
#0944 (B.01) : (continued)
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : hourly
SITES / LEVELS : 10 locations in Fed. Rep. of Germany, Cyprus, Gibraltar,
                Seychelles, St. Helena, Falklands Islands; most anemometers
                are cup generators at about 10m
MEDIA DETAILS : 6250 bpi magnetic tape (2 byte integer binary)
VOLUME OF DATA : 1 reel
QUALITY CONTROL: yes
CENTRE 690A (1988)
Meteorological Office - United Kingdom

#0446 (B.01) : GRIDDED SURFACE TEMPERATURE - DATA SET - GLOBAL
FORM AND MEDIA : 1 set; computer-readable,published
PERIOD : unspecified
AREA : global
ELEMENTS : temperature(max/min)
            temperature(air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
PUBLISHED AS : scientific experiment report
DETAILS : gridded temperature
FREQUENCY/GRID : 5 deg lat x 10 deg long grid
SITES / LEVELS : surface
MEDIA DETAILS : magnetic tape, 1600 bpi
VOLUME OF DATA : 1 tape
QUALITY CONTROL: see 3 papers by Jones at al (1986) - under PUBLISHER
ORIGIN OF DATA : see 3 papers by Jones at al (1986) - under PUBLISHER
REMARKS : set is available from: Carbon Dioxide Information Centre,
           Oak Ridge National Lab., Building 2001,
P.O. Box X, Oak Ridge, TN 37830, U.S.A.
PUBLISHED : hemispheric & global mean temperatures 1851-1984 with respect
            to the 1951-1970 reference period mean
author/editor: P.D. Jones et al
PUBLISHER : Journal of Climate & Applied Meteorology 25, pages 161-179;
            Journal of Climate & Applied Meteorology 25, pages 1213-1230;
            Nature 322, pages 430-434
CENTRE 690D (1988)
University of East Anglia - United Kingdom

#0447 (B.01) : GLOBAL STATION DATA SET - PRECIPITATION
FORM AND MEDIA : 1 set; computer-readable
PERIOD : variable-1980 (see below)
AREA : global
ELEMENTS : precipitation
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
                annual means/totals
DETAILS : earliest year is variable but data set includes station
          history information for each station
MEDIA DETAILS : magnetic tape, 6250 bpi
VOLUME OF DATA : 1 tape
QUALITY CONTROL: none
ORIGIN OF DATA : World Weather Records; published material from National
                Meteorological Agencies (data set contains twice as many
                stations as World Weather Records originally had); see Bradley
                et al for further details
REMARKS : set is available from: Carbon Dioxide Information Centre,
           Oak Ridge National Lab., Building 2001,
P.O. Box X, Oak Ridge, TN 37830, U.S.A.
CENTRE 690D (1988)
University of East Anglia - United Kingdom

#0448 (B.01) : GLOBAL STATION DATA SET - TEMPERATURE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : variable-1980 (see below)
AREA : global
ELEMENTS : temperature(max/min)
            temperature(air)
ARRANGEMENT : per station
Global/regional areas

#0448 (B.01) : (continued)
STATISTICS/DATA: monthly means/totals
annual means/totals
normals
earliest year is variable but data set includes station
history information for each station
DETAILS
VOLUME OF DATA: 1 tape
QUALITY CONTROL: all homogenized with quality control indicator
ORIGIN OF DATA: World Weather Records; published material from National
Meteorological Agencies (data set contains twice as many
stations as World Weather Records originally had); see Bradley
et al for further details
REMARKS: set is available from: Carbon Dioxide Information Centre,
Oak Ridge National Lab., Building 2001,
P.O. Box X, Oak Ridge, TN 37830, U.S.A.

CENTRE 690D (1988)
University of East Anglia - United Kingdom

#0645 (B.01) : ECMWF/WMO GLOBAL OBSERVATIONS DATA SET
FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1980-current
AREA: global
ELEMENTS: precipitation humidity
temperature(max/min) weather
temperature(air) cloud
wind
pressure(air)
ARRANGEMENT: per station
STATISTICS/DATA: data as measured/observed
DETAILS: for humidity: dew point;
for pressure: msl pressure and pressure tendency;
for cloud: low level amount and types (low, middle, high)
FREQUENCY/GRID: 6-hourly (0000, 0600, 1200 and 1800 GMT)
SITES / LEVELS: 4 ocean weather ships & large number of surface land stations
MEDIA DETAILS: magnetic tape, 6250 bpi
VOLUME OF DATA: 1 year per tape
QUALITY CONTROL: checked for internal consistency
ORIGIN OF DATA: GTS
REMARKS: extraction service supported
CENTRE 690W (1987)
European Centre for Medium Range Weather Forecasts - United Kingdom

#0468 (B.02) : NORTHERN HEMISPHERE PRESSURE CENTER TRACKS
FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1899-1939
AREA: northern hemisphere
ELEMENTS: pressure centre tracks
ARRANGEMENT: synoptic arrangement
STATISTICS/DATA: derived from analyzed charts
DETAILS: chronological by year/month; elements include date, location,
serial number, intensity, direction of movement, orientation
of major axis, low pressure centre type, speed of movement
and acceleration during past 48 hour period; filed as TD-9629
MEDIA DETAILS: magnetic tape, 1600 bpi
VOLUME OF DATA: 2 reels
QUALITY CONTROL: unknown
ORIGIN OF DATA: analyzed surface charts
REMARKS: both high and low pressure centre tracks were extracted from
the series of analyzed surface charts
CENTRE 440A (1985)
National Climatic Data Center (NCDC) NOAA - U.S.A.

#0045 (B.02) : NORTHERN HEMISPHERE DAILY SEA LEVEL PRESSURE GRIDS FROM
HISTORICAL MAPS
FORM AND MEDIA: 1 set; computer-readable
PERIOD: 1899-current (see below)
AREA: northern hemisphere
ELEMENTS: pressure(air)
ARRANGEMENT: grid point analysis
STATISTICS/DATA: derived from measured/observed
STATISTICS/DATA: daily means/totals
DETAILS: combined data, interpolated or added; data missing where

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Global/regional areas

#0045 (B.02) : (continued)
DETAILS : historical maps could not be analysed; much of Siberia missing
(cont.)
FREQUENCY/GRID : 1 obs/day; 5 deg lat x 5 deg long diamond grid
SITES / LEVELS : land
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 3 tapes
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data set 337 for data until 1939; this
data set is included in data set 418 (1899-1972) and other
data sets extend these data sets to the present time
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0048 (B.02) : SURFACE PRESSURE AND TEMPERATURE - NORTHERN HEMISPHERE
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1963-current
AREA : northern hemisphere
ELEMENTS : temperature(air)
pressure(air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA : derived from measured/observed
FREQUENCY/GRID : 2 obs/day
MEDIA DETAILS : magnetic tape
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data sets 419, 420
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.

#0083 (B.02) : SURFACE DATA COVERING NORTHERN HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1966-current
AREA : northern hemisphere
ELEMENTS : precipitation
humidity
temperature(max/min)
weather
temperature(air)
cloud
wind
pressure(air)
snow(depth,coverage)
sunshine duration
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA : data as measured/observed
FREQUENCY/GRID : 8 obs/day
MEDIA DETAILS : magnetic tape, 9-track
VOLUME OF DATA : 190 tapes
QUALITY CONTROL : quality control flags
ORIGIN OF DATA : international exchange (GTS available)
CENTRE 629A (1984)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#0317 (B.02) : FIELDS OF MONTHLY MEAN TEMPERATURE - N. HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1901-current
AREA : northern hemisphere
ELEMENTS : temperature(air)
ARRANGEMENT : per station
STATISTICS/DATA : monthly means/total
normals
standard deviations
EOF parameters
SITES / LEVELS : 180 stations
MEDIA DETAILS : magnetic tape, 9-track, 800 bpi
VOLUME OF DATA : 1 reel
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : international
CENTRE 666A (1984)
Institute of Meteorology and Water Management (IMGW) - Poland

#0319 (B.02) : DAILY VALUES OF SURFACE PRESSURE - N. HEMISPHERE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1880-1976
AREA : northern hemisphere
ELEMENTS : pressure(air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA : monthly means/total
5-, 10-, 15-day means
SITES / LEVELS : 311 grid points; geographic grid
Global/regional areas

#G319 (B.02) : (continued)
MEDIA DETAILS : magnetic tape, 9-track, 800 bpi
VOLUME OF DATA : 8 reels
ORIGIN OF DATA : Meteorological Office, Bracknell
CENTRE 666A (1984)
Institute of Meteorology and Water Management (IMGW) - Poland

#G366 (B.02) : MONTHLY/ANNUAL MEANS OF AIR TEMPERATURE - NORTHERN HEMISPHERE, NON-U.S.S.R. STATIONS
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1881-1975
AREA : northern hemisphere
ELEMENTS : temperature(air)
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
annual means/totals
derived from measured/observed
SITES / LEVELS : 1,135 northern hemisphere stations (except U.S.S.R.)
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#G369 (B.02) : MEAN MONTHLY SURFACE AIR TEMPERATURE ANOMALIES-N. HEMISPHERE. GRID
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1891-1982
AREA : northern hemisphere
ELEMENTS : temperature(air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
anomalies
DETAILS : data obtained by visual interpolation from charts
FREQUENCY/GRID : 5 deg x 10 deg N. hemisphere grid
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#G370 (B.02) : MONTHLY/ANNUAL PRECIPITATION AMOUNTS - N. HEMISPHERE. NON-U.S.S.R.
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1881-1975
AREA : northern hemisphere
ELEMENTS : precipitation
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
annual means/totals
derived from measured/observed
SITES / LEVELS : 980 northern hemisphere stations (except U.S.S.R.)
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#G371 (B.02) : ANOMALIES OF MONTHLY PRECIPITATION AMOUNTS -N. HEMISPHERE GRID
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1891-1979
AREA : northern hemisphere
ELEMENTS : precipitation
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
anomalies
DETAILS : data obtained by visual interpolation from charts; anomalies in % of normals
FREQUENCY/GRID : 2.5 deg x 2.5 deg N. hemisphere grid points
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#G372 (B.02) : DAILY VALUES OF SURFACE PRESSURE - N. HEMISPHERE GRID
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1880-1979
AREA : northern hemisphere
Global/regional areas

#0372 (B.02) : (continued)
ELEMENTS : pressure (air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: daily means/totals
derived from measured/observed
DETAILS : data obtained by visual interpolation from charts
FREQUENCY/GRID : synoptic hour; 5 deg x 10 deg N. hemisphere grid
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 4 tapes
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0373 (B.02) : DAILY VALUES OF SEA LEVEL PRESSURE - N. HEMISPHERE GRID
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1899-1976
AREA : northern hemisphere
ELEMENTS : pressure (air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: daily means/totals
derived from measured/observed
data obtained by visual interpolation from charts
MEDIA DETAILS : regular grid points
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0374 (B.02) : MONTHLY MEANS/NORMALS/ANOMALIES OF SURFACE PRESSURE (CLINO) - N. HEMISPHERE GRID
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1873-1979
AREA : northern hemisphere
ELEMENTS : pressure (air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
normals
anomalies
data obtained by visual interpolation from charts; normals
and anomalies: monthly
DETAILS : derived from measured/observed
FREQUENCY/GRID : 5 deg x 10 deg N. hemisphere grid
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0375 (B.02) : MONTHLY MEANS OF SEA LEVEL PRESSURE - N. HEMISPHERE GRID
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1899-1972
AREA : northern hemisphere
ELEMENTS : pressure (air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
data obtained by visual interpolation from charts
DETAILS : 5 deg x 10 deg N. hemisphere grid
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
CENTRE 684A (1984)
All-Union Research Institute of Hydrometeorological Information - U.S.S.R.

#0049 (B.03) : SEA LEVEL PRESSURE DATA - SOUTHERN HEMISPHERE
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1951-1958 (see below)
AREA : southern hemisphere
ELEMENTS : pressure (air)
ARRANGEMENT : grid point analysis
data derived from measured/observed
DETAILS : 500 mb heights included from July 1957 to December 1958;
hemisphere: 15 S to 90 S
FREQUENCY/GRID : 1 obs/day; 5 deg lat x 5 deg long grid
MEDIA DETAILS : magnetic tape
QUALITY CONTROL : data not yet cleaned up
ORIGIN OF DATA : international
REMARKS : NEDRES (interim 1982) data sets 458, 459
CENTRE 440C (1987)
National Center for Atmospheric Research (NCAR) - U.S.A.
Global/regional areas

#0217 (B.03) : SOUTHERN HEMISPHERE MSL PRESSURES
FORM AND MEDIA : 2 sets; computer-readable
PERIOD : 1972-current
AREA : southern hemisphere
ELEMENTS : pressure
ARRANGEMENT : grid point analysis
STATISTICS/DATA: monthly means/totals
DETAILS : both monthly means at 2300 GMT and instantaneous values at 1100 and 2300 GMT are held
FREQUENCY/GRID : 47 x 47 half inch grid superimposed on a polar stereographic chart of scale 1:40,000,000 at S 60
MEDIA DETAILS : magnetic tape at 6250 bpi (800 and 1600 bpi also available)
VOLUME OF DATA : 1 tape
QUALITY CONTROL : comparison with manually drawn chart
ORIGIN OF DATA : international
REMARKS : in some areas, data not reliable north of S 15
CENTRE 505A (1987)
National Climate Centre, Bureau of Meteorology - Australia

#0218 (B.03) : MEAN SEA LEVEL PRESSURE Normals AND STANDARD DEVIATIONS FOR SOUTHERN HEMISPHERE
FORM AND MEDIA : 6 sets; computer-readable
PERIOD : 1972-1982 (see below)
AREA : southern hemisphere
ELEMENTS : pressure
ARRANGEMENT : grid point analysis
STATISTICS/DATA: normals
DETAILS : derived from measured/observed
FREQUENCY/GRID : 2300 GMT
SITES / LEVELS : 8 sites
MEDIA DETAILS : magnetic tape at 6250 bpi (800 and 1600 bpi also available)
VOLUME OF DATA : 1 tape
QUALITY CONTROL : comparison with manually drawn charts is done on instantaneous figures from which normals are derived
ORIGIN OF DATA : international
REMARKS : data set runs from September 1972 to August 1982
CENTRE 505A (1987)
National Climate Centre, Bureau of Meteorology - Australia

#0726 (B.03) : SURFACE TEMPERATURE DATA - ANTARCTICA, SOUTHERN OCEAN, S. PACIFIC OCEAN
FORM AND MEDIA : 3 sets; computer-readable, published
PERIOD : 1900-current
AREA : southern hemisphere Antarctic South Pacific Ocean
ELEMENTS : temperature
ARRANGEMENT : per station
STATISTICS/DATA: chronology/time series
DETAILS : monthly means/totals
PUBLISHED AS : climatological tables
FREQUENCY/GRID : monthly
SITES / LEVELS : all Antarctic manned stations & Southern Ocean & selected South Pacific Ocean stations
MEDIA DETAILS : data base
ORIGIN OF DATA : various climatic summaries, world weather records and personal contacts with observing stations
PUBLISHED : tables and graphs of mean monthly and annual surface temperature records
freq./size : ANARE Research Note 28; 84 pages and graphs
title : A data bank of mean monthly and annual surface temperatures for Antarctica, the Southern Ocean and South Pacific Ocean
author/editor : T.H. Jacka, L. Christou, B.J. Cook
publisher : Antarctic Division, Department of Science, Hobart
enquiry addr. : Publications Officer, Antarctic Division, Channel Highway, Kingston, Tasmania 7150
CENTRE 505D (1987)
Antarctic Division, Glaciology Section - Australia

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ClibPDF - www.fastio.com

Global/regional areas

#0873 (B.03) : SURFACE PRESSURE DATA - ANTARCTICA, SOUTHERN OCEAN, S. PACIFIC OCEAN

FORM AND MEDIA : 3 sets; computer-readable
PERIOD : 1900-current
AREA : southern hemisphere
Antarctic
South Pacific Ocean

ELEMENTS : pressure(air)
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
annual means/totals
DETAILS : mean monthly surface pressure data for Antarctica, the
Southern Ocean and South Pacific Ocean
FREQUENCY/GRID : monthly
SITES/LEVELS : all manned stations in Antarctica and the Southern Ocean and
selected South Pacific Ocean stations
MEDIA DETAILS : data base
ORIGIN OF DATA : various climatic summaries, world weather records and personal
contacts with observing stations
CENTRE 505D (1987)
Antarctic Division, Glaciology Section - Australia

#0982 (B.03) : SURFACE DATA COVERING SOUTHERN HEMISPHERE

FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1979-current
AREA : southern hemisphere

ELEMENTS : precipitation
           temperature(max/min)
           temperature(air)
           wind
           pressure(air)
           humidity
           weather
           cloud
           snow(depth,coverage)
           sunshine duration
ARRANGEMENT : synoptic arrangement
STATISTICS/DATA: data as measured/observed
FREQUENCY/GRID : 8 obs/day
MEDIA DETAILS : magnetic tape, 9-track
VOLUME OF DATA : 10 tapes
ORIGIN OF DATA : international
CENTRE 629A (1984)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#0912 (B.06) : FREEZING/MELTING DEGREE-DAY ACCUMULATIONS - CANADA & ARCTIC

see pages Cat: B Country: 406 (centre 406A, data set #0912)

#1054 (B.07) : SOURCES OF METEOROLOGICAL DATA FOR THE ANTARCTIC

FORM AND MEDIA : inventory; published
PERIOD : 1897-1956
AREA : Antarctic

ELEMENTS : precipitation
           temperature(air)
           sunshine duration
           visibility
           wind
           pressure(air)
           humidity
           solar radiation - global
           sea surface temperature
           ocean currents
           sea and land ice
           pilot balloon observations
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
PUBLISHED AS : inventory/directory/catalogue
PUBLISHED : lists of cruises and expeditions
freq./size : 1 chapter of 15 pages
title : Meteorology of the Antarctic, ed. by M.P. van Rooy, Pretoria.
Weather Bureau (1957), Chapter 2 - Sources of Meteorological
Data for the Antarctic, by R.J. Venter

PUBLICATION (1988)

#0180 (B.07) : DAILY AND MONTHLY DATA FOR SYOWA STATION - ANTARCTICA

FORM AND MEDIA : 1 set; computer-readable, published
PERIOD : 1957-current (see below)
AREA : Antarctic

ELEMENTS : temperature(max/min)
           humidity
           temperature(air)
           weather
           wind
           cloud
           sunshine duration

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#0180 (B.07) : (continued)
ARRANGEMENT: per station
STATISTICS/DATA: monthly means/totals
monthly extremes
data as measured/observed
PUBLISHED AS: regular summary
FREQUENCY/GRID: 8 obs/day
SITES / LEVELS: 1 station (Syowa)
MEDIA DETAILS: magnetic tape, EBCDIC, 9-track, 1600 bpi
VOLUME OF DATA: 2 reels
REMARKS: 1962-1965 missing
PUBLISHED: surface climatological data of Syowa station;
in English and Japanese
freq./size: annual; about 150 pages per issue
title: Antarctic Meteorological Data
publisher: centre 253A
CENTRE 253A (1988)
Japan Meteorological Agency (JMA)

#0535 (B.07) : METEOROLOGICAL DATA AT MIZUHO STATION - ANTARCTICA
FORM AND MEDIA: 1 set; published
PERIOD: 1972-current
AREA: Antarctic
ELEMENTS: temperature(max/min) pressure(air)
temperature(air) weather
wind cloud
ARRANGEMENT: per station
STATISTICS/DATA: daily extremes
monthly extremes
annual extremes
data as measured/observed
PUBLISHED AS: yearbook
FREQUENCY/GRID: 8 obs/day
SITES / LEVELS: 1 station: Mizuho (S 70 40, E 044 20) on the snow surface, 2230m above sea level
ORIGIN OF DATA: Japanese Antarctic Research Expedition (JARE)
REMARKS: continuous record from June 1976
PUBLISHED: see ELEMENTS above
freq./size: annual; series of yearbooks as part of JARE Data Reports
title: Meteorological Data at Mizuho Station, Antarctica
publisher: centre 253B
CENTRE 253B (1988)
National Institute of Polar Research - Japan

#0213 (B.07) : WIND FREQUENCY ANALYSES FOR THE AUSTRALIAN REGION
see pages Cat: B Country: 505 (centre 505A, data set #0213)

#0214 (B.07) : MAXIMUM AND MINIMUM TEMPERATURE ANALYSES - AUSTRALIAN REGION
see pages Cat: B Country: 505 (centre 505A, data set #0214)

#0215 (B.07) : CLIMATIC AVERAGES FOR AUSTRALIAN REGION
see pages Cat: B Country: 505 (centre 505A, data set #0215)

#0216 (B.07) : MONTHLY MEANS/EXTREMES OF CLIMATOLOGICAL DATA - AUSTRALIAN REGION
see pages Cat: B Country: 505 (centre 505A, data set #0216)

#0220 (B.07) : SURFACE CLIMATOLOGICAL DATA FOR AUSTRALIAN REGION
see pages Cat: B Country: 505 (centre 505A, data set #0220)

#0726 (B.07) : SURFACE TEMPERATURES - ANTARCTICA, SOUTHERN OCEAN, S. PACIFIC OCEAN
see pages Cat: B Area: 03 (centre 505D, data set #0726)

#0873 (B.07) : SURFACE PRESSURE DATA - ANTARCTICA, SOUTHERN OCEAN, S. PACIFIC OCEAN
see pages Cat: B Area: 03 (centre 505D, data set #0873)

#0599 (B.07) : SURFACE CLIMATOLOGICAL DATA FOR GEORG-VON-NEUMAYER ANTARCTIC STATION
FORM AND MEDIA: 1 set; computer-readable,original
PERIOD: 1981-current (see below)
AREA: Antarctic
ELEMENTS: temperature(max/min) humidity
temperature(air) weather
Global/regional areas

#0599 (B.07) : (continued)
ELEMENTS : wind
(cont.) pressure(air)
ARRANGEMENT : synoptic arrangement
profiles
STATISTICS/DATA: data as measured/observed
DETAILS : data consist of standard synoptic observations taken at
3-hourly time intervals; additionally, vertical profiles of
wind and temperature (up to 40m height) are taken as 10 minute
means (from 1982 onward); registration and observations will
continue in future
FREQUENCY/GRID : 3-hourly respectively 10 minute means
SITES / LEVELS : Georg-von-Neumayer antarctic station at S 70 00, W 098 00;
vertical profiles: up to 8 levels;
synoptic observations refer to standard synoptic heights
MEDIA DETAILS : magnetic tape; listings available upon request
VOLUME OF DATA : 1 to 2 tapes (to date)
QUALITY CONTROL: consistency check; automated control for obvious sensor
malfunctions and disturbances due to HF radio transmission
CENTRE 629F (1986)
Alfred Wegener Institute for Polar Research - Federal Republic of Germany

#0697 (B.07) : CLOUD DETECTION- ANTARCTIC-FROM SATELLITE PICTURES(AVHRR DATA)
FORM AND MEDIA : 1 set; computer-readable,published
PERIOD : unspecified
AREA : Antarctic
ELEMENTS : cloud
ARRANGEMENT : satellite multichannel
STATISTICS/DATA: derived from measured/observed
PUBLISHED AS : case study
PUBLISHED : cloud detection over Antarctica using AVHRR measurements
(NOAA satellites)
title : 1) Wolkenerkennung Uber der Antarktik mittels
Satellitenbildern;
2) Wolkenerkennung Uber der Antarktik in Satellitenbildern
publisher : 1) Mitteilungen of centre 629H; 1986
Universitat Kln, 1986;
2) Zeitschrift fur Polarforschung, 1987 (in print)
CENTRE 629H (1987)

#0932 (B.07) : SURFACE CLIMATOLOGICAL DATA AT BRITISH ANTARCTIC SURVEY STATIONS
FORM AND MEDIA : group of sets; computer-readable,original
PERIOD : 1905-current (see below)
AREA : Antarctic
ELEMENTS : precipitation
temperature(max/min)
temperature(air)
wind
pressure(air)
humidity
ARRANGEMENT : per station
STATISTICS/DATA: hourly means/totals
daily means/totals
monthly means/totals
annual means/totals
daily extremes
monthly extremes
data as measured/observed
FREQUENCY/GRID : at synoptic hours; data does not exist for all stations for
entire period
SITES / LEVELS : 9 stations
QUALITY CONTROL: yes
CENTRE 690L (1987)
British Antarctic Survey (BAS) - United Kingdom

#0933 (B.07) : SURFACE RADIATION DATA AT BRITISH ANTARCTIC SURVEY STATIONS
see pages Cat: C Area: 07 (centre 690L, data set #0933)

#0983 (B.10) : PRECIPITATION AT STATIONS IN AND NEAR THE NILE BASIN
FORM AND MEDIA : 1 set; published
PERIOD : 1912-1982
AREA : Africa
ELEMENTS : precipitation
## Global/regional areas

<table>
<thead>
<tr>
<th>#0983 (B.10)</th>
<th>(continued)</th>
</tr>
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<tbody>
<tr>
<td><strong>ARRANGEMENT</strong></td>
<td>networks of stations</td>
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<tr>
<td><strong>STATISTICS/DATA</strong></td>
<td>monthly means/totals</td>
</tr>
<tr>
<td></td>
<td>annual means/totals</td>
</tr>
<tr>
<td></td>
<td>counts of no. of days</td>
</tr>
<tr>
<td><strong>PUBLISHED AS</strong></td>
<td>regular summary</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID</strong></td>
<td>daily observations</td>
</tr>
<tr>
<td><strong>SITES / LEVELS</strong></td>
<td>125 rainfall stations</td>
</tr>
<tr>
<td><strong>ORIGIN OF DATA</strong></td>
<td>Meteorological Departments in Cairo, Sudan, Uganda, Kenya and Tanzania</td>
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<tr>
<td><strong>PUBLISHED</strong></td>
<td>monthly and annual rainfall totals and number of rainy days in and near the Nile Basin</td>
</tr>
<tr>
<td><strong>freq./size</strong></td>
<td>each volume contains 5 years records; 10 volumes published</td>
</tr>
<tr>
<td><strong>title</strong></td>
<td>The Nile Basin - Monthly and annual rainfall totals and number of rainy days at stations in and near the Nile Basin</td>
</tr>
<tr>
<td><strong>author/editor</strong></td>
<td>Nile Control staff</td>
</tr>
<tr>
<td><strong>publisher</strong></td>
<td>General Organisation for Government Printing Offices, Cairo</td>
</tr>
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<td><strong>CENTRE 125B (1987)</strong></td>
<td>Central Department for Nile Control - Egypt</td>
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<table>
<thead>
<tr>
<th>#0521 (B.10)</th>
<th>METEOSAT DATA (FORMAT D2) - AFRICA &amp; EUROPE</th>
</tr>
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<tbody>
<tr>
<td><strong>FORM AND MEDIA</strong></td>
<td>1 set; published</td>
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<tr>
<td><strong>PERIOD</strong></td>
<td>1984-current</td>
</tr>
<tr>
<td><strong>AREA</strong></td>
<td>Africa Europe</td>
</tr>
<tr>
<td><strong>ELEMENTS</strong></td>
<td>cloud</td>
</tr>
<tr>
<td><strong>ARRANGEMENT</strong></td>
<td>satellite multichannel</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA</strong></td>
<td>derived from measured/observed</td>
</tr>
<tr>
<td><strong>DETAILS</strong></td>
<td>area is that covered by format D2 METEOSAT; images WEFAX</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID</strong></td>
<td>infra-red: every half-hour; visible: 0900, 1200, 1500 GMT</td>
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<tr>
<td><strong>CENTRE 160B (1986)</strong></td>
<td>Centre Météorologique de Casablanca - Maroc</td>
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<table>
<thead>
<tr>
<th>#1957 (B.10)</th>
<th>HOURLY, THREE-HOURLY, DAILY METEOROLOGICAL PARAMETERS - CILSS COUNTRIES - AFRICA</th>
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<tr>
<td><strong>FORM AND MEDIA</strong></td>
<td>1 set; computer-readable,microform</td>
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<tr>
<td><strong>PERIOD</strong></td>
<td>1955-1979 (see below)</td>
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<tr>
<td><strong>AREA</strong></td>
<td>Africa</td>
</tr>
<tr>
<td><strong>ELEMENTS</strong></td>
<td>precipitation humidity temperature(max/min) wind temperature(air) evaporation sunshine duration</td>
</tr>
<tr>
<td><strong>ARRANGEMENT</strong></td>
<td>per station</td>
</tr>
<tr>
<td><strong>STATISTICS/DATA</strong></td>
<td>grid point analysis monthly frequencies</td>
</tr>
<tr>
<td></td>
<td>daily means/totalss</td>
</tr>
<tr>
<td></td>
<td>monthly means/totalss</td>
</tr>
<tr>
<td></td>
<td>annual means/totalss</td>
</tr>
<tr>
<td></td>
<td>monthly extremes</td>
</tr>
<tr>
<td></td>
<td>annual extremes</td>
</tr>
<tr>
<td><strong>PUBLISHED AS</strong></td>
<td>weather review charts - atlas</td>
</tr>
<tr>
<td><strong>DETAILS</strong></td>
<td>CILSS countries: Cape Verde, Senegal, Mauritania, Mali, Burkina Faso, Niger, Chad; other countries: Togo, Benin, Nigeria, Guinée; elements: relative humidity &amp; vapour pressure are measured; statistics: prepared for precipitation, not yet completed for other elements</td>
</tr>
<tr>
<td><strong>FREQUENCY/GRID</strong></td>
<td>hourly, 3-hourly and daily observations</td>
</tr>
<tr>
<td><strong>SITES / LEVELS</strong></td>
<td>stations: 100 with all data; 1,350 with only precipitation</td>
</tr>
<tr>
<td><strong>MEDIA DETAILS</strong></td>
<td>magnetic tape (files in ASCII, with some documentation)</td>
</tr>
<tr>
<td><strong>QUALITY CONTROL</strong></td>
<td>being effected by AGRHYMET; to be completed in 1989</td>
</tr>
<tr>
<td><strong>ORIGIN OF DATA</strong></td>
<td>Meteorologie nationale de France (centre 625A) &amp; ORSTOM from start to 1965; ECMWF (centre 690W), ASECNA (centre 172W) &amp; National Met. Services of CILSS countries from 1967-1978</td>
</tr>
<tr>
<td><strong>REMARKS</strong></td>
<td>some data between 1979 and 1983 exist; all of them are on microfiche, partially on magnetic tape</td>
</tr>
<tr>
<td><strong>PUBLISHED</strong></td>
<td>miscellaneous publications; an atlas will be published in 1989</td>
</tr>
<tr>
<td><strong>CENTRE 165W (1988)</strong></td>
<td>Centre AGRHYMET - Niger</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>#0627 (B.10)</th>
<th>SURFACE CLIMATOLOGICAL DATA (ASECNA) - AFRICA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FORM AND MEDIA</strong></td>
<td>1 set; computer-readable,microform,published</td>
</tr>
<tr>
<td><strong>PERIOD</strong></td>
<td>1966-current (see below)</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Cat: B</th>
<th>Area: 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>#0527 (B.10)</td>
<td>(continued)</td>
</tr>
<tr>
<td>AREA</td>
<td>Africa</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>precipitation, temperature(max/min), temperature(air), wind, pressure(air), humidity</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>synoptic arrangement, monthly means/totals, monthly extremes, monthly frequencies, counts of no. of days</td>
</tr>
<tr>
<td>PUBLISHED AS</td>
<td>climatological tables</td>
</tr>
<tr>
<td>DETAILS</td>
<td>data is available for the synoptic stations of the following countries (Member States of ASECNA): Benin, Burkina Faso, Central African Republic, Congo, Ivory Coast, Gabon, Mali, Mauritania, Niger, Senegal, Tchad, Togo (only Lomé)</td>
</tr>
<tr>
<td>FREQUENCY/GRID</td>
<td>hourly and 3-hourly synoptic observations</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>about 1250 surface stations (synoptic, climatological, rainfall)</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>hard copy for monthly statistics; magnetic tape</td>
</tr>
<tr>
<td>VOLUME OF DATA</td>
<td>about 180 tapes, including Méteorologie Nationale France tapes</td>
</tr>
<tr>
<td>QUALITY CONTROL</td>
<td>consistency checks, semi-automated</td>
</tr>
<tr>
<td>PUBLISHED</td>
<td>a collection of climatological statistics for the period 1968-1977 was published in 1982</td>
</tr>
</tbody>
</table>

CENTRE 172W (1987)
Agence pour la Sécurité de la Navigation Aérienne en Afrique- Sénégal

| #0528 (B.10) | RAINFALL DATA (ASECNA) - AFRICA |
| FORM AND MEDIA | group of sets; computer-readable, original |
| PERIOD | 1966-current |
| AREA | Africa |
| ELEMENTS | precipitation, evaporation |
| ARRANGEMENT | per station |
| STATISTICS/DATA | monthly means/totals, daily frequencies |
| DETAILS | data is available for the rainfall stations of the following countries (Member States of ASECNA): Benin, Burkina Faso, Central African Republic, Congo, Ivory Coast, Gabon, Mali, Mauritania, Niger, Senegal, Tchad |
| FREQUENCY/GRID | daily |
| SITES / LEVELS | about 1250 stations measuring rainfall |
| MEDIA DETAILS | hard copy; magnetic tape |
| VOLUME OF DATA | about 11 tapes (including ORSTOM tapes) |
| QUALITY CONTROL | semi-automated |
| REMARKS | a concise analysis of the rainfall season is made available monthly each year from May to October |

CENTRE 172W (1986)
Agence pour la Sécurité de la Navigation Aérienne en Afrique- Sénégal

| #0570 (B.10) | AFRICAN RAINFALL |
| FORM AND MEDIA | 1 set; computer-readable, published |
| PERIOD | 1901-current (see below) |
| AREA | Africa |
| ELEMENTS | precipitation |
| ARRANGEMENT | per station |
| STATISTICS/DATA | monthly means/totals, annual means/totals |
| DETAILS | at present, tape coverage extends only to 1972; in a few months, it will be updated to 1984 |
| FREQUENCY/GRID | monthly |
| SITES / LEVELS | 1087 stations in Africa |
| MEDIA DETAILS | magnetic tape |
| QUALITY CONTROL | described in NCAR(centre 440C) technical note (in preparation) |
| ORIGIN OF DATA | described in NCAR technical note (in preparation) |
| REMARKS | contained in NCAR technical note (in preparation) |

CENTRE 440D (1986)
Florida State University - U.S.A.
Global/regional areas

#0253 (B.10) : SURFACE CLIMATOLOGICAL DATA FOR A NUMBER OF FRENCH-SPEAKING COUNTRIES IN AFRICA
FORM AND MEDIA : 1 set; computer-readable, original
PERIOD : 1939-1975
AREA : Africa
ELEMENTS : precipitation, humidity
temperature(max/min), evaporation
wind, pressure(air), sunshine duration
ARRANGEMENT : per station
STATISTICS/DATA : daily means/totals
                          daily extremes
                          data as measured/observed
DETAILS : Mauritania, Benin, Centrafrique, Congo, Cote d'Ivoire, Gabon, Guinea, Haute-Volta, Mali, Niger, Senegal, Tchad, Togo
FREQUENCY/GRID : 2 to 8 obs/day
SITES / LEVELS : 142 stations
MEDIA DETAILS : magnetic tape (6250 bpi); some data on manuscript
VOLUME OF DATA : 2 tapes
QUALITY CONTROL : no
ORIGIN OF DATA : synoptic stations
CENTRE 625A (1984)
Direction de la Météorologie - France

#0605 (B.10) : CLIMATE DATA SET - N55-S55, W055-E055
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982-current
AREA : Africa
          Europe
          Atlantic Ocean
ELEMENTS : climatological elements
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : derived from measured/observed
DETAILS : condensed form of image radiances; area is N 55 - S 55,
          W 055 - E 055
FREQUENCY/GRID : 8 obs/day
MEDIA DETAILS : computer compatible magnetic tape, 6250 bpi
VOLUME OF DATA : a few tapes/year
QUALITY CONTROL : no
CENTRE 629X (1986)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#0666 (B.10) : CLOUD ANALYSIS - N55-S55, W055-E055
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982-current
AREA : Africa
          Europe
          Atlantic Ocean
ELEMENTS : temperature(air)
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : derived from measured/observed
DETAILS : area is N 55 - S 55, W 055 - E 055;
          for cloud: coverage only
FREQUENCY/GRID : 3 obs/day
MEDIA DETAILS : a computer compatible magnetic tape, 6250 bpi
VOLUME OF DATA : a few tapes/year
QUALITY CONTROL : manual
CENTRE 629X (1986)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#0608 (B.10) : SATELLITE WIND DATA - N55-S55, W055-E055
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1982-current
AREA : Africa
          Europe
          Atlantic Ocean
ELEMENTS : wind
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : derived from measured/observed
DETAILS : area is N 55 - S 55, W 055 - E 055;
          data source Sat-6, visible & infra-red channels
FREQUENCY/GRID : 2 obs/day

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Global/regional areas

#0608 (B.10) : (continued)
MEDIA DETAILS : computer compatible magnetic tape, 6250 bpi
VOLUME OF DATA : a few tapes/year
QUALITY CONTROL: manual
CENTRE 629X (1986)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#0610 (B.10) : PRECIPITATION INDEX - AFRICA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1985-current (see below)
AREA : Africa
ELEMENTS : precipitation
ARRANGEMENT : satellite infra-red
STATISTICS/DATA: derived from measured/observed
DETAILS : starting date is September 1985
CENTRE 629X (1986)
European Space Operations Centre, Darmstadt - Federal Republic of Germany

#0504 (B.10) : AGROCLIMATOLOGICAL DATA FOR AFRICA, LATIN AMERICA & CARIBBEAN
FORM AND MEDIA : 1 set; published
PERIOD : 1931-current (see below)
AREA : Central America/Caribbean area
ELEMENTS : precipitation
temperature(max/min)
temperature(air)
warm
humidity
sunshine duration
Growing season
total solar radiation
evapotranspiration
rainfall variability
ARRANGEMENT : per station
STATISTICS/DATA: monthly means/totals
annual means/totals
PUBLISHED AS : climatological tables
DETAILED : for humidity: vapour pressure;
total solar radiation (generally deducted from relative
sunshine duration) and evapotranspiration are calculated
according to procedures presented in FAO Plant Production and
Protection Paper No. 73: "Early Agrometeorological Crop Yield Assessment"
FREQUENCY/GRID : monthly
SITES / LEVELS : about 3500 stations
ORIGIN OF DATA : various international and national publications and documents
REMARKS : periods of records (normally from 1931 onwards) vary between
stations; no. of available years of observation for a given
month is given in tables on rainfall variability
PUBLISHED : in FAO Plant Production and Protection Series
freq./size : no. 22 (1984), 2 volumes - Africa;
no. 24 (1985), 1 volume - Latin America and Caribbean;
no. 25 (1987), 2 volumes - Asia
enquiry addr.: Agrometeorology Group, Plant Production & Protection Division
of centre 647W
CENTRE 647W (1989)
Food and Agricultural Organization (FAO), Rome - Italy

#0649 (B.11) : CLOUD MOTION VECTOR(INSAT-IB) DATA - ARABIAN SEA, BAY OF BENGAL
& INDIAN OCEAN
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1983-current (see below)
AREA : Indian Ocean
ELEMENTS : wind
ARRANGEMENT : satellite multichannel
STATISTICS/DATA: derived from measured/observed
DETAILS : area includes Arabian Sea, Bay of Bengal & Indian Ocean in 6
sectors of 14 deg x 14 deg each(E 058 to E 098, N 24 to S 16);
starting date is October 1983
MEDIA DETAILS : computer compatible tapes; hard copy prints only
ORIGIN OF DATA : INSAT-IB
CENTRE 240A (1988)
India Meteorological Department
Global/regional areas

#0194 (B.11) : MONTHLY DATA FOR ASIA AND SOUTH-EAST ASIA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1951-1980
AREA : Asia
ELEMENTS : precipitation
temperature(air)
ARRANGEMENT : per station
STATISTICS/DATA : monthly means/totals
annual means/totals
SITES / LEVELS : 105 stations in China, 22 stations in Korea, 17 stations in Sri Lanka and stations in Hong Kong, Thailand, etc.
MEDIA DETAILS : magnetic tape
CENTRE 253D (1984)
Institute of Geoscience, University of Tsukuba - Japan

#0542 (B.11) : CLOUD WIND VECTOR - ASIA, SW PACIFIC AND PACIFIC OCEAN
(50N-50S, 90E-170W)
FORM AND MEDIA : 1 set; computer-readable,published
PERIOD : 1978-current (see below)
AREA : Asia
ELEMENTS : wind
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : derived from measured/observed
PUBLISHED AS : regular summary chronology/time series
climatological tables charts/atlas
DETAILS : area is N 50 - S 50, E 090 - W 170;
data source is SAT-G, visible & infra-red channels
FREQUENCY/GRID : 4 obs/day at 0000 & 1200 GMT (full disk coverage),
0600 & 1800 GMT (N. hemisphere only);
before March 1987: 2 obs/day at 0000 & 1200 GMT
MEDIA DETAILS : magnetic tape, 9-track, 1600 bpi, format proposed by GDPS
VOLUME OF DATA : 1 tape per 3 months
QUALITY CONTROL : manual and automated
PUBLISHED AS : report
freq./size : monthly
title : Monthly Report of Meteorological Satellite Center
publisher : 253E
CENTRE 253E (1988)
Meteorological Satellite Center - Japan Meteorological Agency

#0544 (B.11) : CLOUD AMOUNT - ASIA, SW PACIFIC, PACIFIC OCEAN (N59-S59, E081-W161)
FORM AND MEDIA : 1 set; computer-readable,published
PERIOD : 1978-current (see below)
AREA : Asia
ELEMENTS : cloud
ARRANGEMENT : satellite infra-red
STATISTICS/DATA : derived from measured/observed
PUBLISHED AS : regular summary chronology/time series
climatological tables charts/atlas
DETAILS : area is N 59 - S 59, E 081 - W 161;
before March 1987: area is N 50 - S 49, E 090 - W 171;
cloud coverage only
FREQUENCY/GRID : uses IR images of 0300, 0600, 0900, 1200, 1500, 1800 & 2100 GMT - about 14000 points (1 deg x 1 deg lat/long grid) per 5 days;
before March 1987: uses images of 0300, 0900, 1200 & 1800 GMT
MEDIA DETAILS : magnetic tape, 9-track, 6250 bpi
VOLUME OF DATA : 1 tape per 5 years
PUBLISHED AS : report
freq./size : monthly
title : Monthly Report of Meteorological Satellite Center
publisher : 253E
CENTRE 253E (1988)
Meteorological Satellite Center - Japan Meteorological Agency
Climatological Division of Centre 278A

CENTRE 278A (1987)

#0174 (B.13) : GRID POINT DATA (SURFACE) FOR SOUTH-EAST ASIA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1974-current
AREA : South-East Asia area
ELEMENTS : temperature(air)
            pressure(air)
ARRANGEMENT : grid point analysis
STATISTICS/DATA: derived from measured/observed
DETAILS : area is N 00 - N 65, E 065 - E 165
FREQUENCY/GRID : 5 degree lat/long grid, 2.5 degree lat/long grid for selected elements
MEDIA DETAILS : magnetic tape, 9-track, 1600 bpi
VOLUME OF DATA : 30 reels of 2,400 ft tape
QUALITY CONTROL: physical limit check; climatology check
CENTRE 238A (1989)
Royal Observatory - Hong Kong

See pages 11

#0228 (B.13) : ASEAN CLIMATIC ATLAS DATA SETS
FORM AND MEDIA : 1 set; computer-readable
PERIOD : variable-1975 (see below)
AREA : South-East Asia area
            South-West Pacific area
ELEMENTS : precipitation
            temperature(max/min)
            pressure(air)
            humidity

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Global/regional areas

#0228 (B.13) : (continued)
ELEMENTS : temperature(air)
            wind
ARRANGEMENT : per station
STATISTICS/DATA:
              monthly means/totals
              monthly extremes
              derived from measured/observed
MEDIA DETAILS : magnetic tape, ASCII, 9-track, 800 bpi
VOLUME OF DATA : about 1.5 reels of magnetic tape
QUALITY CONTROL : limits checks
ORIGIN OF DATA : ASEAN countries: Indonesia, Malaysia, Philippines, Singapore,
                 Thailand

REMARKS : periods of record vary with stations and elements;
          the data set is used for the preparation of the ASEAN Climatic
          Atlas and Compendium; same set of data is available in all the
          ASEAN countries

CENTRE 560A (1987)
Malaysian Meteorological Service

#0504 (B.14) : AGROCLIMATOLOGICAL DATA FOR AFRICA, LATIN AMERICA & CARIBBEAN
               see pages Cat: B Area: 10 (centre 647W, data set #0504)

#0252 (B.15) : SURFACE CLIMATOLOGICAL DATA - FRENCH OVERSEAS
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1950-current (see below)
AREA : Central America/Caribbean area
        Pacific Ocean
        Indian Ocean
ELEMENTS : precipitation
            temperature(max/min)
            humidity
            cloud
            temperature(air)
            wind
            pressure(air)
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
                  derived from measured/observed
DETAILS : area also includes Antarctic and North America; the earliest
          year is usually 1961; the latest year depends on the station
FREQUENCY/GRID : 6 to 8 obs/day
SITES / LEVELS : 31 stations:
                 17 stations in the Pacific Ocean
                 7 stations in the Antilles
                 1 station in Antarctic (S 66°40', E 140°00')
                 1 station in North America
                 5 stations in the Indian Ocean

MEDIA DETAILS : magnetic tape, 9-track, 6250 bpi
VOLUME OF DATA : 2 tapes
QUALITY CONTROL: limits checks and coherence tests
CENTRE 625A (1986)
Direction de la Météorologie - France

#0504 (B.15) : AGROCLIMATOLOGICAL DATA FOR AFRICA, LATIN AMERICA & CARIBBEAN
               see pages Cat: B Area: 10 (centre 647W, data set #0504)

#0573 (B.16) : GREAT LAKES (U.S. AND CANADA) AIR TEMPERATURE DEGREE DAY
CLIMATOLOGY 1897-1983
FORM AND MEDIA : 1 set; computer-readable, microform, published
PERIOD : 1897-1983
AREA : North America
ELEMENTS : temperature(max/min)
ARRANGEMENT : daily means/totals
STATISTICS/DATA:
               seasonal means/totals
               seasonal extremes
PUBLISHED AS : regular summary
DETAILS : elements also include freezing and thawing degree days; area
          is U.S. and Canadian Great Lakes (N 49° -N 41°, W 092° - W 076°)
FREQUENCY/GRID : daily
SITES / LEVELS : 25 sites; data abstracted from published Canadian and U.S.
                 Federal and state climatic data
MEDIA DETAILS : magnetic tape; 35mm microfilm
VOLUME OF DATA : 2 reels tape; 25 reels microfilm
QUALITY CONTROL: unknown
ORIGIN OF DATA : U.S. Department of Commerce; National Oceanic and Atmospheric
                 Administration; Great Lakes Environmental Research Laboratory

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Global/regional areas

#0573 (B.16) : (continued)
PUBLISHED : data report, describing analysis method and presenting summary
freq./size : "monograph", 54 pages
statistics in tabular form
title : NOAA Data Report ERL GLERL-29: "Great Lakes Degree-Day and
author/editor: Assel, R.A.
publisher : U.S. Department of Commerce,
National Oceanic & Atmospheric Administration (NOAA), 1986
enquiry addr. : NTIS, 5285 Port Royal Road, Springfield VA 22161, U.S.A.
CENTRE 446W (1987)
World Data Center A-Glaciology and National Snow & Ice Data Center- U.S.A.

#0542 (B.17) : CLOUD WIND VECTOR - ASIA, SW PACIFIC AND PACIFIC OCEAN
see pages Cat: B Area: 11 (centre 253E, data set #0542)
(50N-50S, 90E-170W)

#0544 (B.17) : CLOUD AMOUNT - ASIA,SW PACIFIC,PACIFIC OCEAN
see pages Cat: B Area: 11 (centre 253E, data set #0544)
(50N-49S, 90E-171W)

#0228 (B.17) : ASEAN CLIMATIC ATLAS DATA SETS
see pages Cat: B Area: 13 (centre 560A, data set #0228)

#0408 (B.17) : PACIFIC ISLANDS SYNOPTIC OBSERVATIONS
FORM AND MEDIA : 18 sets; computer-readable
PERIOD : 1945-1975
AREA : South-West Pacific area
ELEMENTS : temperature(air) pressure(air)
winds cloud
ARRANGEMENT : per station
STATISTICS/DATA: data as measured/observed
DETAILS : selected from coded synops; wind, pressure, temperature by
FREQUENCY/GRID : 4 or 8 obs/day
SITES / LEVELS : 18 stations
MEDIA DETAILS : magnetic tape, EBCDIC, 9-track, 1600 bpi
VOLUME OF DATA : 90,000 observations
QUALITY CONTROL: limits checks
CENTRE 570A (1984)
New Zealand Meteorological Service

#0521 (B.18) : METEOSAT DATA (FORMAT D2) - AFRICA & EUROPE
see pages Cat: B Area: 10 (centre 16GB, data set #0521)

#0751 (B.18) : CLIMATOLOGICAL DATA OF EUROPE
FORM AND MEDIA : 1 set; published
PERIOD : 1931-1960
AREA : Europe
ELEMENTS : precipitation
            temperature(max/min)
            temperature(air)
humidity
            snow(depth,coverage)
            sunshine duration
            sea surface temperature
STATISTICS/DATA: monthly means/totals
annual means/totals
monthly extremes
annual extremes
counts of no. of days
PUBLISHED AS : climatological tables
DETAILS : for humidity: vapour pressure
SITES / LEVELS : 442 stations
PUBLISHED : long standing means & extremes of selected stations in Europe;
additional explanation of the climatological condition of the
respective area and the range of application of the
climatological data
freq./size : 3 volumes
title : Klimadaten von Europa (DK 551.582.2)
author/editor: M. Baucus, B. Haenle, M. Kalb & H. Noll
publisher : 1980-1982, Offenbach
enquiry addr. : centre 629A
CENTRE 629A (1987)
Deutscher Wetterdienst, Zentralamt Offenbach - Federal Republic of Germany

#1076 (B.18) : ALPEX - MERKUR EXPERIMENT SURFACE CLIMATOLOGICAL DATA - EUROPE
FORM AND MEDIA : 47 sets; computer-readable,published
PERIOD : 1982
(see below)

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Global/regional areas

#1076  (B.18) : (continued)
AREA : Europe
ELEMENTS : precipitation
          : temperature(air)
          : wind
          : pressure(air)
          : humidity
          : weather
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
PUBLISHED AS : case study
DETAILS : period is 23 March - 4 April 1982;
          : area is NE-Alpine Region
PUBLISHED : Wissenschaftliche Mitteilungen Meteorologisches Institut
            No. 48 (1983)
title : MERKUR
author/editor : Freytag and Hennemuth
publisher : centre 629D
CENTRE 629D (1988)
Meteorologisches Institut der Universität München - Fed. Rep. of Germany

#0605  (B.18) : CLIMATE DATA SET - N55-S55, W055-E055
see pages  : Cat: B  Area: 10  (centre 629X, data set #0605)

#0606  (B.18) : CLOUD ANALYSIS - N55-S55, W055-E055
see pages  : Cat: B  Area: 10  (centre 629X, data set #0606)

#0608  (B.18) : SATELLITE WIND DATA - N55-S55, W055-E055
see pages  : Cat: B  Area: 10  (centre 629X, data set #0608)

#0611  (B.18) : CLOUD, VEGETATION INDEX AND SEA ICE DATA (AVHRR) - EUROPE,
                 NORTH ATLANTIC AND MEDITERRANEAN
FORM AND MEDIA : inventory; computer-readable,published,original
PERIOD : 1966-current (see below)
AREA : Europe
       : Mediterranean region
       : North Atlantic Ocean
ELEMENTS : cloud
           : vegetation/biomass index
           : sea ice
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : derived from measured/observed
DETAILS : derived from satellite data & published as chart,1966-current;
          : vegetation index images of Europe (N 40 - N 55, W 005 - E 020)
          : are under preparation, 1983-1985, 1 per month;
          : cloud climatology on a regional scale (central Europe) is
          : planned in combination with ISCCP
FREQUENCY/GRID : NOAA AVHRR images of channels 2+4 (night 4+5) are rectified in
                  : polar stereographic projection and composed twice daily to a
                  : mosaic of the Eastern Atlantic-European-Mediterranean area;
                  : the resolution is 4 km; digital archive computer compatible
                  : tapes exists from 1977-current; area includes Arctic
                  : (N 80 - N 30, W 030 - E 060)
MEDIA DETAILS : computer compatible magnetic tape (800/1600 bpi); film;
                : hard copy; publication
VOLUME OF DATA : 125 tapes/year image data
QUALITY CONTROL : preprocessing includes calibration and insert of missing lines
CENTRE 629Y (1986)
Inst.f.Meteorologie der Freien Univ. Berlin - Federal Republic of Germany

#0613  (B.18) : AREAL CLOUD COVERAGE DATA - EUROPE, MEDITERRANEAN REGION AND
                 N. ATLANTIC OCEAN (N 60 - N 30, W 20 - E 40)
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1968-1973
AREA : Europe
       : Mediterranean region
       : North Atlantic Ocean
ELEMENTS : cloud
ARRANGEMENT : satellite images APT
STATISTICS/DATA : monthly means/totals
                  : annual means/totals
                  : derived from measured/observed standard deviations
DETAILS : area is N 60 - N 30, W 020 - E 040;
          : cloud coverage data produced manually for area with radius of
Global/regional areas

#0613 (B.18) : (continued)
DETAILS : 250 km; data is from ESSA satellites (TV pictures); resolution is 4 km; in winter, area is 30 N - 50 N only; statistics include spatial and time structure functions
FREQUENCY/GRID : once a day; network of grid distance of 5 x 5 degrees
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : 1 tape
QUALITY CONTROL : yes
ORIGIN OF DATA : Meteorologische Abhandlungen, Institut für Meteorologie der Freien Universität Berlin
CENTRE 639A (1987)
Meteorological Service of the Hungarian People's Republic

#0614 (B.18) : WEFAX DATA (LOOP MOVIES) - EUROPE, MEDITERRANEAN REGION AND N. ATLANTIC OCEAN
FORM AND MEDIA : group of sets; computer-readable
PERIOD : 1983-current (see below)
AREA : Europe
MEDITERRANEAN region
NORTH ATLANTIC OCEAN
ELEMENTS : loop movies
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : derived from measured/observed
DETAILS : WEFAX images data from METEOSAT II; wavelengths: 0.4-1.1, 10.5-12.5, 5.7-7.1 microns; resolution is 2.5 km in visible & 5 km in others at subsatellite point
FREQUENCY/GRID : 01 Nov. 1983 - 30 Jan. 1984: 2 per week(on Thursdays & Fridays);
31 Jan. 1984 - present : 5 per week(except Sundays/Mondays);
for WEFAX formats C2, D2, E2 by METEOSAT II
MEDIA DETAILS : magnetic tape
VOLUME OF DATA : several hundred magnetic tapes
QUALITY CONTROL : no
ORIGIN OF DATA : from WEFAX station of the Meteorological Service of Hungary
REMARKS : WEFAX data are digitized by an A/D converter
CENTRE 639A (1987)
Meteorological Service of the Hungarian People's Republic

#0312 (B.18) : CATALOGUE OF MEAN NUMERICAL ATMOSPHERIC CIRCULATION TYPES-EUROPE
FORM AND MEDIA : 1 set; computer-readable,published,original
PERIOD : 1951-current (see below)
AREA : Europe
ELEMENTS : sea-level circulation types
ARRANGEMENT : monthly list of mean types
STATISTICS/DATA : monthly means/totals
monthly extremes
monthly frequencies
PUBLISHED AS : chronology/time series
DETAILS : area is N 40 - N 65, E 000 - E 035;
mean type refers to a period of similar circulation pattern;
statistics refer to occurrences & duration of each circulation type
MEDIA DETAILS : computer-readable; manuscript
QUALITY CONTROL : manual
PUBLISHED : in "Roczni meteoologiczny"
freq./size : yearly
title : Catalogue of mean numerical atmospheric circulation types for
the period 1966-current
author/editor : M. Stepnowska-Podrazka
enquiry addr. : centre 666A
CENTRE 666A (1988)
Institute of Meteorology and Water Management (IMGW) - Poland

#0313 (B.18) : CATALOGUE OF DAILY & MEAN ATMOSPHERIC CIRCULATION TYPES-EUROPE
FORM AND MEDIA : 1 set; published,original
PERIOD : 1899-current (see below)
AREA : Europe
ELEMENTS : sea-level circulation types
ARRANGEMENT : monthly list daily & mean types
STATISTICS/DATA : monthly means/totals
annual means/totals
daily frequencies
monthly frequencies
annual frequencies
singularities
sequences
PUBLISHED AS : chronology/time series
Global/regional areas

#0313 (B.18) : (continued)
DETAILS : sea level mean circulation type refers to a type prevailing within a given period of time; the statistics refer to the occurrences and duration of each circulation type
MEDIA DETAILS : periods 1899-1900 and 1976-current in manuscript
PUBLISHED : catalogue of daily & mean atmospheric circulation types for period 1961-1975
  freq./size : 1 volume, 195 pages
  title : Katalog typów cyrkulacji atmosferycznej
  author/editor : B. Osuchowska-Klein
  publisher : Wydawnictwa Komunikacji i Laczności; 1978; Warszawa
  enquiry addr. : centre 666A

CENTRE 666A (1989)
Institute of Meteorology and Water Management (IMGW) - Poland

#0318 (B.18) : FIELD OF MONTHLY PRECIPITATION TOTALS - EUROPE
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1961-current
AREA : Europe
ELEMENTS : precipitation
ARRANGEMENT : per station
STATISTICS/DATA : monthly means/totals standard deviations
                  normals
                  EOF parameters
SITES / LEVELS : 33 stations
MEDIA DETAILS : magnetic tape, 9-track, 800 bpi
VOLUME OF DATA : 1 reel
QUALITY CONTROL : manual and automated
ORIGIN OF DATA : international
CENTRE 666A (1984)
Institute of Meteorology and Water Management (IMGW) - Poland

#0862 (B.18) : LCAST - SPATIAL METEOROLOGY - EUROPE
FORM AND MEDIA : 1 set; original
PERIOD : 1974-1985 (see below)
AREA : Europe
ELEMENTS : cloud
ARRANGEMENT : satellite multichannel
STATISTICS/DATA : normals
DETAILS : images NOAA-METEOSAT, discontinuously; infra-red during the night and winter; visible only in the summer
FREQUENCY/GRID : once a day till 1980; twice a day for 1981-1985 (day/night);
                  grid with step of 5x5 deg in region N 60 - N 30, W 010 - E 045
MEDIA DETAILS : manuscript (totals per day and monthly/yearly means)
VOLUME OF DATA : 12 per year
CENTRE 669A (1987)
Institute of Meteorology and Hydrology - Romania

#1992 (B.18) : ALPEX MICROBAROGRAPH DATA SET - EUROPE
FORM AND MEDIA : 1 set; computer-readable,original
PERIOD : 1982 (see below)
AREA : Europe
ELEMENTS : temperature(air)
            wind pressure(air)
ARRANGEMENT : per station
STATISTICS/DATA : data as measured/observed
                  derived from measured/observed
PUBLISHED AS : charts - atlas case study
DETAILS : period: ALPEX SOP: 1 March - 30 April 1982;
           area is: cross-section of Gotthard (Fed. Rep. of Germany,
           Switzerland, Italy), Brenner (Fed. Rep. of Germany, Austria, Italy) &
           Dinaric Alps (Yugoslavia)

ORIGIN OF DATA : 55 stations
PUBLISHED : Gotthard ALPEX data
  freq./size : 81 pages
  title : The ALPEX Gotthard Data Set
  author/editor : Peter D. Phillips
  publisher : centre 676E; 1984
  enquiry addr. : SADC for Microbarograph Data, centre 676E
CENTRE 676E (1988)
Laboratory for Atmospheric Physics ETH, Zürich - Switzerland

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Global/Regional Areas

**#0123 (B.18)**: EUROPEAN CLIMATOLOGICAL DATA SET

**FORM AND MEDIA**: 1 set; computer-readable, published

**PERIOD**: 1945-1981

**AREA**: Europe

**ELEMENTS**: precipitation, temperature (max/min), wind, humidity, sunshine duration, solar radiation - global

**ARRANGEMENT**: per station

**STATISTICS/DATA**: data as measured/observed

**PUBLISHED AS**: scientific experiment report

**DETAILS**: monthly means/totals

**FREQUENCY/GRID**: 1 obs/day at 0900 GMT

**SITES / LEVELS**: 95 stations from 13 European countries, except United Kingdom

**MEDIA DETAILS**: 2 byte integer on magnetic tape (9-track, 6250 bpi)

**VOLUME OF DATA**: 86 x 4,212 bytes

**QUALITY CONTROL**: varies by country; all data checked for limits and internal consistency

**REMARKS**: data is only made available with permission of the countries providing the data

**PUBLISHED**: derived data (hay drying potential); May - Sept means of various elements; 1961-1980

**title**: 1) The effects of climate variability or change on existing production systems of crops such as hay, silage and cereals which rely heavily on field drying (1984, Final Report CEC Climatology Programme, Contract No. CLI -033-81-UK(H));

2) A quantitative study of the effects of climate variability and climatic change on Herbage Production from intensely managed grassland in western European Countries

**author/editor**: 1) N. Thompson; 2) Dr. C. J. Hume

**enquiry addr.**: Agricultural Section - centre 690A

**CENTRE 690A (1988)**

Meteorological Office - United Kingdom

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**#0124 (B.18)**: HOMOGENISED MONTHLY RAINFALL TOTALS - EUROPE

**FORM AND MEDIA**: 1 set; computer-readable

**PERIOD**: 1960-1977

**AREA**: Europe

**ELEMENTS**: precipitation

**ARRANGEMENT**: per station

**STATISTICS/DATA**: monthly means/totals

**FREQUENCY/GRID**: daily

**SITES / LEVELS**: 185 European stations

**MEDIA DETAILS**: magnetic tape, 1600 bpi

**VOLUME OF DATA**: 1 tape

**QUALITY CONTROL**: principal component analysis; spectral analysis

**ORIGIN OF DATA**: international

**CENTRE 690A (1984)**

Meteorological Office - United Kingdom

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**#0644 (B.18)**: ALPEX DATA SET (SURFACE CLIMATOLOGICAL & UPPER AIR) - OUTER EXPERIMENTAL AREA

**FORM AND MEDIA**: 2 sets; computer-readable, published

**PERIOD**: 1982 (see below)

**AREA**: Europe

North Atlantic Ocean
Mediterranean region

**ELEMENTS**: precipitation, temperature (max/min), temperature (air), wind, pressure (air), humidity, weather, cloud, snow (depth, coverage), cloud ceiling, heights of levels, soil temperature, tropopause, sea surface temperature

**ARRANGEMENT**: synoptic arrangement

**STATISTICS/DATA**: data as measured/observed

**PUBLISHED AS**: charts/atlas

**DETAILS**: scientific experiment report

area is: N 60 - N 30, W 030 - E 037;
period: 1 March 1982 to 1 May 1982;

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Global/regional areas

#0644 (B.18) : (continued)
DETAILS : set-1: GTS type data & mergeable type data;
(cont.) set-2: non-GTS conventional data (precipitation, snow, soil
 temperature)
FREQUENCY/GRID : 3-hourly; format: ALFPEX Level IIB
SITES / LEVELS : all available surface, SHIP, AIREP, ASDAR, SATEM, SATOB,
 TEMP, PILOT, BATHY, TESAC, DRIBU plus non-GTS data (low
 resolution research aircraft-240 sec., low resolution AIDS-240
 sec., NAVAID, TIROS-N 50 km resolution cloud analysis & sea
 surface temperature, DROPWIND sonde)
MEDIA DETAILS : magnetic tape, 6250 bpi
VOLUME OF DATA : GTS data : 12 tapes;
non-GTS data: 2 tapes
QUALITY CONTROL: checked for internal consistency
ORIGIN OF DATA : GTS
REMARKS : tape copying service supported
PUBLISHED : charts of various parameters | various related reports
and cross-sections
freq./size : single volume | 7 volumes
title : Analyses of ALFPEX Data
1-5 March 1982 | ICSU, GARP and ALFPEX reports
author/editor : D. Radinovic | various
publisher : centre 690W; 1984; Reading | WMO (centre 676W); 1982; Geneva
CENTRE 690W (1989)

European Centre for Medium Range Weather Forecasts - United Kingdom

#0611 (B.19) : CLOUD, VEGETATION INDEX AND SEA ICE DATA (AVHRR) - EUROPE,
NORTH ATLANTIC AND MEDITERRANEAN
see pages Cat: B Area: 18 (centre 629Y, data set #0611)

#0613 (B.19) : AREAL CLOUD COVERAGE DATA - EUROPE, MEDITERRANEAN REGION AND
N. ATLANTIC OCEAN (N 60 - N 30, W 20 - E 40)
see pages Cat: B Area: 18 (centre 639A, data set #0613)

#0614 (B.19) : WEFAX DATA (LOOP MOVIES) - EUROPE, MEDITERRANEAN REGION AND
N. ATLANTIC OCEAN
see pages Cat: B Area: 18 (centre 639A, data set #0614)

#0644 (B.19) : ALFPEX DATA SET (SURFACE CLIMATOLOGICAL & UPPER AIR) - OUTER
EXPERIMENTAL AREA
see pages Cat: B Area: 18 (centre 690W, data set #0644)

#0605 (B.20) : CLIMATE DATA SET - N55-S55, W055-E055
see pages Cat: B Area: 10 (centre 629X, data set #0605)

#0606 (B.20) : CLOUD ANALYSIS - N55-S55, W055-E055
see pages Cat: B Area: 10 (centre 629X, data set #0606)

#0608 (B.20) : SATELLITE WIND DATA - N55-S55, W055-E055
see pages Cat: B Area: 10 (centre 629X, data set #0608)

#0611 (B.21) : CLOUD, VEGETATION INDEX AND SEA ICE DATA (AVHRR) - EUROPE,
NORTH ATLANTIC AND MEDITERRANEAN
see pages Cat: B Area: 18 (centre 629Y, data set #0611)

#0613 (B.21) : AREAL CLOUD COVERAGE DATA - EUROPE, MEDITERRANEAN REGION AND
N. ATLANTIC OCEAN (N 60 - N 30, W 20 - E 40)
see pages Cat: B Area: 18 (centre 639A, data set #0613)

#0614 (B.21) : WEFAX DATA (LOOP MOVIES) - EUROPE, MEDITERRANEAN REGION AND
N. ATLANTIC OCEAN
see pages Cat: B Area: 18 (centre 639A, data set #0614)

#0644 (B.21) : ALFPEX DATA SET (SURFACE CLIMATOLOGICAL & UPPER AIR) - OUTER
EXPERIMENTAL AREA
see pages Cat: B Area: 18 (centre 690W, data set #0644)

#0649 (B.23) : CLOUD MOTION VECTOR (INSAT-IB) DATA - ASIA AND INDIAN OCEAN
see pages Cat: B Area: 11 (centre 240A, data set #0649)

#0252 (B.23) : SURFACE CLIMATOLOGICAL DATA - FRENCH OVERSEAS
see pages Cat: B Area: 15 (centre 625A, data set #0252)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Area</th>
<th>Category</th>
<th>Pages</th>
<th>Dataset</th>
</tr>
</thead>
<tbody>
<tr>
<td>#0547</td>
<td>METEOROLOGICAL SATELLITE DATA - ASIA, N. INDIAN &amp; PACIFIC OCEANS</td>
<td>26</td>
<td>B</td>
<td>11</td>
<td>278A</td>
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<td>#0542</td>
<td>CLOUD WIND VECTOR - ASIA, SW PACIFIC AND PACIFIC OCEAN (50N-50S, 90E-170W)</td>
<td>26</td>
<td>B</td>
<td>11</td>
<td>253E</td>
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<tr>
<td>#0544</td>
<td>CLOUD AMOUNT - ASIA, SW PACIFIC, PACIFIC OCEAN (50N-49S, 90E-171W)</td>
<td>26</td>
<td>B</td>
<td>11</td>
<td>253E</td>
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<tr>
<td>#0588</td>
<td>SATELLITE (GMS) SURFACE TEMPERATURE DATA - PACIFIC OCEAN</td>
<td>26</td>
<td>B</td>
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</tr>
<tr>
<td></td>
<td>FORM AND MEDIA: group of sets; computer-readable</td>
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<td>PERIOD: 1978-current</td>
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<td>AREA: Pacific Ocean</td>
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<td></td>
<td>ELEMENTS: temperature(air)</td>
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<td>ARRANGEMENT: satellite multichannel</td>
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<td>STATISTICS/DATA: derived from measured/observed</td>
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<td></td>
<td>DETAILS: data source is GMS 1, 2 &amp; 3; area is full disc, centre: Equator, 140E</td>
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<tr>
<td></td>
<td>FREQUENCY/GRID: 8 IR and 3 VIS/day; 0000 GMT IR only prior to January 1985</td>
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<tr>
<td></td>
<td>MEDIA DETAILS: magnetic tape, 6250 bpi, 9-track, EBCDIC</td>
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<td></td>
<td>VOLUME OF DATA: 950 tapes</td>
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<td>ORIGIN OF DATA: direct readout station</td>
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<td></td>
<td>CENTRE 505A (1987)</td>
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<td>National Climate Centre, Bureau of Meteorology - Australia</td>
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</tr>
<tr>
<td>#0252</td>
<td>SURFACE CLIMATOLOGICAL DATA - FRENCH OVERSEAS</td>
<td>26</td>
<td>B</td>
<td>15</td>
<td>625A</td>
</tr>
<tr>
<td>#0547</td>
<td>METEOROLOGICAL SATELLITE DATA - ASIA, N. INDIAN &amp; PACIFIC OCEANS</td>
<td>26</td>
<td>B</td>
<td>11</td>
<td>278A</td>
</tr>
<tr>
<td>#0726</td>
<td>SURFACE TEMPERATURES - ANTARCTICA, SOUTHERN OCEAN, S. PACIFIC OCEAN</td>
<td>26</td>
<td>B</td>
<td>03</td>
<td>505D</td>
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<tr>
<td>#0873</td>
<td>SURFACE PRESSURE DATA - ANTARCTICA, SOUTHERN OCEAN, S. PACIFIC OCEAN</td>
<td>26</td>
<td>B</td>
<td>03</td>
<td>505D</td>
</tr>
</tbody>
</table>
CATEGORY : B (Surface climatological data)

DATA SETS

AREAS WITHIN COUNTRIES
Climatological Data from Algeria

**#0387 (B.102)**: Daily Reporting of Climatological Elements - Algeria

**FORM AND MEDIA**: 40 sets; computer-readable, published, original

**PERIOD**: 1967-current (see below)

**AREA**: Algeria

**ELEMENTS**: precipitation, temperature (max/min), temperature (air), wind, pressure (air), humidity, cloud, evaporation, snow (depth, coverage), sunshine duration

**ARRANGEMENT**: per station

**STATISTICS/DATA**: daily extremes, counts of no. of days, data as measured/observed

**PUBLISHED AS**: climatological tables

**DETAILS**: monthly statistics are done but are not saved in the data sets

**FREQUENCY/GRID**: 24 obs/day for 6 stations and 8 obs/day (0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 GMT) for 34 stations

**SITES / LEVELS**: 40 land stations

**MEDIA DETAILS**: magnetic tape, ASCII, 9-track, 800 bpi

**VOLUME OF DATA**: 1 tape for each station

**QUALITY CONTROL**: automated control with correction by checks obtained from daily reporting and from observation books

**REMARKS**: starting date of period will be regularly extended backwards

**PUBLISHED**: summary of 10 years of observations (1975-1984); a summary for each station

**title**: Atlas Climatologique National: Partie 1 - Recueil des Données

**publisher**: Centre 102A

**CENTRE 102A (1987)**

Office National de la Météorologie (C.E.D.M.) - Algérie

**#0388 (B.102)**: Daily, Monthly and Annual Means and Extremes of Humidity and Temperature - Algeria

**FORM AND MEDIA**: 1 set; computer-readable, original

**PERIOD**: 1960-current

**AREA**: Algeria

**ELEMENTS**: temperature (max/min), temperature (air), humidity

**ARRANGEMENT**: per station

**STATISTICS/DATA**: daily means/totals, monthly means/totals, annual means/totals, daily extremes, monthly extremes, annual extremes, data as measured/observed

**FREQUENCY/GRID**: 1 obs/day

**SITES / LEVELS**: 118 stations

**MEDIA DETAILS**: magnetic tape

**VOLUME OF DATA**: 2 tapes

**QUALITY CONTROL**: checks with basic documents

**CENTRE 102A (1987)**

Office National de la Météorologie (C.E.D.M.) - Algérie

**#0701 (B.102)**: Precipitation Data (Pluviometric Network) - Algeria

**FORM AND MEDIA**: 1 set; computer-readable, original

**PERIOD**: 1874-current

**AREA**: Algeria

**ELEMENTS**: precipitation

**ARRANGEMENT**: per station

**STATISTICS/DATA**: daily means/totals, monthly means/totals, annual means/totals, daily extremes, monthly extremes, annual extremes

**FREQUENCY/GRID**: 1 obs/day

**SITES / LEVELS**: 157 sites

**MEDIA DETAILS**: manuscript

**QUALITY CONTROL**: data are controlled by using monthly totals and then checking original manuscript

**CENTRE 102A (1987)**

Office National de la Météorologie (C.E.D.M.) - Algérie

**#0438 (B.103)**: Monthly Extremes of Climatological Data - Angola

**FORM AND MEDIA**: 3 sets; original

**PERIOD**: 1901-1970 (see below)

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Areas within countries

<table>
<thead>
<tr>
<th>#0438 (B.103)</th>
<th>(continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AREA</td>
<td>Angola</td>
</tr>
<tr>
<td>ELEMENTS</td>
<td>precipitation</td>
</tr>
<tr>
<td></td>
<td>temperature(max/min)</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>monthly extremes</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>set-1: 1 station; set-2: 22 stations; set-3: 30 stations</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>paper</td>
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<tr>
<td>QUALITY CONTROL</td>
<td>limits checks (manual)</td>
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<tr>
<td>CENTRE 103A (1984)</td>
<td>Instituto Nacional de Hidrometeorologia et Geofisica - Angola</td>
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<table>
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<tr>
<th>#0439 (B.103)</th>
<th>NORMALS - SURFACE CLIMATOLOGICAL ELEMENTS - ANGOLA</th>
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<tbody>
<tr>
<td>FORM AND MEDIA</td>
<td>4 sets; original</td>
</tr>
<tr>
<td>PERIOD</td>
<td>1981-1980 (see below)</td>
</tr>
<tr>
<td>AREA</td>
<td>Angola</td>
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<tr>
<td>ELEMENTS</td>
<td>precipitation</td>
</tr>
<tr>
<td></td>
<td>temperature(air)</td>
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<tr>
<td></td>
<td>humidity</td>
</tr>
<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>monthly means totals</td>
</tr>
<tr>
<td>DETAILS</td>
<td>annual means totals</td>
</tr>
<tr>
<td>SITES / LEVELS</td>
<td>set-1: 1 station; set-2: 22 stations; set-3: 30 stations; set-4: 13 stations</td>
</tr>
<tr>
<td>MEDIA DETAILS</td>
<td>paper</td>
</tr>
<tr>
<td>QUALITY CONTROL</td>
<td>limits check; run test (manual)</td>
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<tr>
<td>CENTRE 103A (1984)</td>
<td>Instituto Nacional de Hidrometeorologia et Geofisica - Angola</td>
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<th>#0782 (B.109)</th>
<th>CLIMATOLOGICAL DATA - BURKINA FASO</th>
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</thead>
<tbody>
<tr>
<td>FORM AND MEDIA</td>
<td>1 set; computer-readable, microform, published, original</td>
</tr>
<tr>
<td>PERIOD</td>
<td>1947-current</td>
</tr>
<tr>
<td>AREA</td>
<td>Burkina Faso</td>
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<tr>
<td>ELEMENTS</td>
<td>precipitation</td>
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<tr>
<td></td>
<td>temperature(max/min)</td>
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<tr>
<td></td>
<td>humidity</td>
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<tr>
<td>ARRANGEMENT</td>
<td>per station</td>
</tr>
<tr>
<td>STATISTICS/DATA</td>
<td>hourly means totals</td>
</tr>
<tr>
<td>PUBLISHED AS</td>
<td>climatological tables</td>
</tr>
<tr>
<td>DETAILS</td>
<td>monthly and annual statistical tables and manuscripts since the creation of all national stations</td>
</tr>
<tr>
<td>FREQUENCY/GRADE</td>
<td>24 obs/day for 2 synoptic stations; 8 obs/day for 7 synoptic stations; 3 obs/day for 11 climatological stations; 2 obs/day for rain-gauge stations</td>
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<tr>
<td>MEDIA DETAILS</td>
<td>magnetic tape; microfiche; manuscript</td>
</tr>
<tr>
<td>VOLUME OF DATA</td>
<td>1 magnetic tape</td>
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<tr>
<td>QUALITY CONTROL</td>
<td>manual</td>
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<tr>
<td>ORIGIN OF DATA</td>
<td>ASECNA (centre 172W) &amp; AGRHYMET (centre 165W)</td>
</tr>
<tr>
<td>PUBLISHED</td>
<td>statistical tables</td>
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<tr>
<td>freq./size</td>
<td>annual</td>
</tr>
<tr>
<td>title</td>
<td>Climatological Tables</td>
</tr>
</tbody>
</table>
Areas within countries

#0782 (B.109): (continued)

enquiry addr.: centre 109A
CENTRE 109A (1987)
Direction Météorologie Nationale - Burkina Faso.

#0783 (B.109): SUNSHINE DURATION DATA - BURKINA FASO

FORM AND MEDIA: 1 set; computer-readable, microform, published
PERIOD: 1947-current
AREA: Burkina Faso
ELEMENTS: sunshine duration
ARRANGEMENT: per station
STATISTICS/DATA: data as measured/observed
derived from measured/observed
PUBLISHED AS: climatological tables
FREQUENCY/GRID: 1 obs/day
SITES / LEVELS: land stations
MEDIA DETAILS: magnetic tape; microfiche
VOLUME OF DATA: 1 magnetic tape
QUALITY CONTROL: manual
ORIGIN OF DATA: ASECNA (centre 172W) & AGRHYMET (centre 165W)
PUBLISHED: climatological tables
freq./size: annual
title: Météorologie Nationale
enquiry addr.: Météorologie Nationale
CENTRE 109A (1987)
Direction Météorologie Nationale - Burkina Faso.

#0929 (B.112): MONTHLY CLIMATIC SUMMARY - CAMEROON

FORM AND MEDIA: group of sets; published, original
PERIOD: unspecified-current
AREA: Cameroon
ELEMENTS: precipitation
temperature (max/min)
temperature (air)
wind
pressure (air)
humidity
weather
cloud
evaporation
soil temperature
visibility
grass or ground minimum temp.
fog
wet haze/dry haze
lightning/thunderstorm
ARRANGEMENT: per station
STATISTICS/DATA: daily means/totals
monthly means/ totals
monthly extremes
data as measured/observed
PUBLISHED AS: regular summary
DETAILS: for humidity; dew point
FREQUENCY/GRID: 8 observations per day
SITES / LEVELS: 3 main meteorological offices; 5 main meteorological stations;
26 climatological stations (all of them are land stations)
QUALITY CONTROL: manual
ORIGIN OF DATA: monthly climatic table
PUBLISHED: for ground temperature at 5, 10, 20 & 50 cm respectively, the data show averages of ten days; temperature (max/min); mean temperature; monthly mean temperature; grass minimum temperature; fog (visibility < 1 km); wet haze (visibility > 1 km & < 5 km); lightning; thunderstorm; dew; wind > or = 16 m/s; wind < or = 25 m/s; dry haze (visibility < 5 km)
freq./size: monthly
title: Cameroon Monthly Climatic Summary
author/editor: centre 112A
CENTRE 112A (1987)
Direction de la Météorologie Nationale (DIRMET) - Cameroun

#0930 (B.112): CLIMATOLOGICAL ANNALS - CAMEROON

FORM AND MEDIA: group of sets; published, original
PERIOD: 1941-1972 (see below)
AREA: Cameroon
ELEMENTS: temperature (max/min)
temperature (air)
wind
pressure (air)
humidity
evaporation
sunshine duration
fog
wet haze/dry haze
lightning/thunderstorm
ARRANGEMENT: per station
STATISTICS/DATA: hourly means/ totals
monthly extremes
### Areas within countries

<table>
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<th>Catalogue Number</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>#0930 (B.112)</td>
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<td>(continued)</td>
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</tbody>
</table>

**STATISTICS/DATA:**
- daily means/totals
- monthly means/totals
- annual means/totals

**PUBLISHED AS:**
- climatological tables

**DETAILS:**
- for humidity: dew point;

**FREQUENCY/GRID:**
- 8 observations per day

**SITES / LEVELS:**
- 3 main meteorological offices; 5 main meteorological stations;
- 26 climatological stations (all of them are land stations)

**QUALITY CONTROL:**
- manual

**ORIGIN OF DATA:**
- monthly climatic table

**PUBLISHED:**
- station pressure (air) max/min; temperature (air) max/min;
- humidity; evaporation; sunshine duration; fog; wet haze; dry haze; lightning; thunderstorm; dew; wind

**title:**
- Climatological Annals

**author/editor:**
- centre 112A

**CENTRE 112A (1987)**

### #0982 (B.125)

**PRECIPITATION AND EVAPORATION DATA - EGYPT**

**FORM AND MEDIA:**
- 1 set; computer-readable, microform, published, original

**PERIOD:**
- unspecified-current

**AREA:**
- Egypt

**ELEMENTS:**
- precipitation
- evaporation
- evapotranspiration

**ARRANGEMENT:**
- per station monthly extremes
- monthly means/totals
- monthly means/totals

**PUBLISHED AS:**
- climatological tables

**DETAILS:**
- evaporation measured from class A pan and estimated from open water surface using the meteorological data measured over the buoy station

**FREQUENCY/GRID:**
- daily

**SITES / LEVELS:**
- 30 precipitation stations; for evaporation 1 buoy station & 7 stations also measuring evapotranspiration

**MEDIA DETAILS:**
- magnetic tape/microform for recording charts of precipitation;
- magnetic tape/manuscript for evaporation;
- manuscript for evapotranspiration

**VOLUME OF DATA:**
- 1 magnetic tape per year for precipitation (includes other meteorological elements)

**QUALITY CONTROL:**
- hourly comparison between amount of precipitation & the other elements, mainly cloud type & amount

**PUBLISHED:**
- monthly totals, deviation from normal & maximum in 1 day,
- monthly & daily means for the meteorological elements & estimated evaporation from the buoy station

**freq./size:**
- monthly

**title:**
- Monthly Weather Report, Estimated evaporation and meteorological data of the buoy station

**author/editor:**
- centre 125A

**publisher:**
- General Organisation for Government Printing Offices, Cairo

**CENTRE 125A (1987)**

### #0511 (B.130)

**SURFACE CLIMATOLOGICAL DATA - GABON**

**FORM AND MEDIA:**
- 3 sets; original

**PERIOD:**
- 1951-current (see below)

**AREA:**
- Gabon

**ELEMENTS:**
- precipitation
- temperature (max/min)
- temperature (air)
- wind
- pressure (air)

**ARRANGEMENT:**
- per station

**STATISTICS/DATA:**
- daily means/totals
- monthly means/totals
- annual means/totals

**FREQUENCY/GRID:**
- 24 obs/day at 2 stations and 8 obs/day at 12 stations
ClibPDF - www.fastio.com

Cat: B Country: 130 132 136 144
Areas within countries

#0511 (B.130) : (continued)
SITES / LEVELS : 14 synoptic surface stations and more than 80 precipitation
stations
MEDIA DETAILS : manuscript
VOLUME OF DATA : 8 pages of manuscript per month and per station (original
documents)
QUALITY CONTROL: manual
REMARKS : climatological means for principal climatological elements
have been calculated for 1951-1960, 1951-1970 & 1951-1980; precipitation
data is registered at some stations from 1933, but series has serious problems/gaps & is therefore not usable
CENTRE 130A (1986)
Direction de la Météorologie Nationale (DMN) - Gabon

#0148 (B.132) : DAILY AND MONTHLY EXTREMES OF CLIMATOLOGICAL DATA - GAMBIA
FORM AND MEDIA : 1 set; computer-readable, original
PERIOD : 1886-1983 (see below)
AREA : Gambia
ELEMENTS : precipitation
          temperature(max/min)
          temperature(air)
          wind
          pressure(air)
          humidity
          cloud
          evaporation
          sunshine duration
          soil temperature
          solar radiation - global
ARRANGEMENT : per station
STATISTICS/DATA: daily extremes
                monthly extremes
FREQUENCY/GRID : obs at 0000, 0600, 1200 and 1800 GMT
SITES / LEVELS : 8 stations
MEDIA DETAILS : manuscript & diskette
QUALITY CONTROL: accuracy checks & internal consistency
REMARKS : starting dates for rainfall are from 1886 (Banjul) to 1956; starting dates for other elements are 1950 or in period 1970-1975
CENTRE 132A (1984)
Department of Water Resources - Gambia

#0785 (B.136) : CLIMATOLOGICAL DATA - GUINEA
FORM AND MEDIA : 1 set; original
PERIOD : 1922-current (see below)
AREA : Guinea
ELEMENTS : precipitation
          temperature(max/min)
          temperature(air)
          wind
          pressure(air)
          humidity
          weather
          cloud
          evaporation
          sunshine duration
          soil temperature
          visibility
          grass or ground minimum temp.
ARRANGEMENT : per station
STATISTICS/DATA: hourly means/totals
                daily means/totals
                monthly means/totals
                annual means/totals
                daily extremes
                monthly extremes
                annual extremes
                daily frequencies
                monthly frequencies
                annual frequencies
                normals
DETAILS : 1922 is earliest year for precipitation (other elements later)
FREQUENCY/GRID : 24 obs/day
SITES / LEVELS : 12 synoptic stations
MEDIA DETAILS : manuscript
CENTRE 136A (1987)
Direction de la Météorologie - République de Guinée

#0786 (B.136) : RADIATION DATA - GUINEA
see pages Cat: C Country: 136 (centre 136A, data set #0786)

#0787 (B.136) : MARINE AND OCEAN DATA - GUINEA
see pages Cat: D Country: 136 (centre 136A, data set #0787)

#0514 (B.144) : SURFACE CLIMATOLOGICAL DATA - KENYA
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1957-current
AREA : Kenya
ELEMENTS : precipitation
            humidity

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Areas within countries

**#0514 (B.144):** (continued)

| ELEMENTS (cont.) |  
|------------------|--------|
| temperature(max/min) | cloud |
| temperature(air) | evaporation |
| wind | sunshine duration |
| pressure(air) |  

**ARRANGEMENT:** synoptic arrangement

**STATISTICS/DATA:** counts of no. of days normals data as measured/observed

**DETAILS:** rainfall data at approx. 2000 stations stored separately

**FREQUENCY/GRID:** rainfall: once in 24 hours; other elements: hourly & 3-hourly

**SITES / LEVELS:** 34 surface synoptic stations

**MEDIA DETAILS:** magnetic tape

**QUALITY CONTROL:** manual and automated

**CENTRE 144A (1966)**

Kenya Meteorological Department

**#0774 (B.144):** HYDROLOGICAL DATA - KENYA

see pages Cat: H Country: 144 (centre 144A, data set #0774)

**#0280 (B.148):** SURFACE CLIMATOLOGICAL DATA - LIBERIA

**FORM AND MEDIA:** 1 set; published, original

**PERIOD:** 1950-current

**AREA:** Liberia

| ELEMENTS |  
|----------|--------|
| precipitation | humidity |
| temperature(max/min) | weather |
| temperature(air) | cloud |
| wind | sunshine duration |
| pressure(air) |  

**ARRANGEMENT:** per station

**STATISTICS/DATA:** daily means/totals monthly means/totals annual means/totals counts of no. of days normals data as measured/observed

**PUBLISHED AS:** regular summary

**FREQUENCY/GRID:** 4-8 obs/day or more

**SITES / LEVELS:** 3 stations

**MEDIA DETAILS:** manuscript

**QUALITY CONTROL:** manual

**REMARKS:** except for Robertsfield's own data, monthly data from various centres can be obtained through bilateral exchange

**PUBLISHED:** monthly summary

**title:** Monthly Climatic Summarized Data

**CENTRE 148A (1988)**

Meteorological Department - Liberia

**#0149 (B.151):** MONTHLY TOTALS, MEANS AND EXTREMES OF CLIMATOLOGICAL ELEMENTS - MADAGASCAR

**FORM AND MEDIA:** 6 sets; computer-readable

**PERIOD:** 1951-1980

**AREA:** Madagascar

| ELEMENTS |  
|----------|--------|
| precipitation | humidity |
| temperature(max/min) | evaporation |
| temperature(air) | sunshine duration |
| pressure(air) |  

**ARRANGEMENT:** per station

**STATISTICS/DATA:** monthly means/totals monthly extremes

**FREQUENCY/GRID:** 2 obs/day

**SITES / LEVELS:** precipitation, temperature: 49 stations evaporation, humidity: 27 stations pressure: 26 stations sunshine duration: 24 stations

**MEDIA DETAILS:** magnetic tape, EBCDIC, 9-track, 1600 bpi

**QUALITY CONTROL:** no

**CENTRE 151A (1984)**

Service de la Météorologie Nationale Malgache - Madagascar

**#0152 (B.154):** MONTHLY MEANS AND EXTREMES OF CLIMATOLOGICAL DATA - MALAWI

**FORM AND MEDIA:** 1 set; computer-readable, published, original

**PERIOD:** 1938-current (see below)

**AREA:** Malawi

| ELEMENTS |  
|----------|--------|
| precipitation | humidity |
| temperature(max/min) | weather |
### Areas within countries

#### #0152 (B.154) (continued)
**ELEMENTS**
- temperature (air)
- wind
- pressure (air)

**ARRANGEMENT**
- daily means/totals per station
- monthly means/totals
- daily extremes
- monthly extremes

**STATISTICS/DATA**
- counts of no. of days
- normals
- standard deviations

**PUBLISHED AS**
- regular summary
- climatological tables
- charts/atlas
- case study

**DETAILS**
- no. of days with rain counted

**FREQUENCY/GRID**
- 6 obs/day for 16 stations & 24 obs/day for 3 stations

**SITES / LEVELS**
- 19 land stations

**MEDIA DETAILS**
- data in manuscript form is from 1938-current
- data on magnetic tape is from 1949-1979 & 1983-1986

**VOLUME OF DATA**
- thousands of manuscript copies; 1 reel of magnetic tape

**QUALITY CONTROL**
- manual and by computer methods

**ORIGIN OF DATA**
- observations done at full time synoptic and climatological
- stations in Malawi

**PUBLISHED**
- published data from 1940-1978; means at 0600, 0800, 1100, 1400, 1700 & 2000 GMT; daily means, extremes & departures from normal; publication is in English

**freq./size**
- 15 page monthly publication

**title**
- Monthly Summaries;
- Climatological Tables for Malawi (Nov. 1960 & July 1982)

**author/editor:** centre 154A

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### Malawi Meteorological Department

#### #0153 (B.154)
**FORM AND MEDIA**
- RAINFALL DATA - MALAWI
- 1 set; computer-readable, published, original

**PERIOD**
- 1891-current (see below)

**AREA**
- Malawi

**ELEMENTS**
- precipitation

**ARRANGEMENT**
- per station

**STATISTICS/DATA**
- hourly means/totals
- monthly means/totals
- annual means/totals

**PUBLISHED AS**
- regular summary
- climatological tables
- charts/atlas
- case study

**DETAILS**
- no. of days with rain counted

**FREQUENCY/GRID**
- daily

**SITES / LEVELS**
- 724 land stations distributed throughout Malawi

**MEDIA DETAILS**
- magnetic tape and manuscripts

**VOLUME OF DATA**
- 1 reel magnetic tape and enormous volumes of manuscripts

**QUALITY CONTROL**
- manual and by computer methods

**ORIGIN OF DATA**
- recording done at 23 meteorological stations and 701 stations
- manned by personnel in agriculture, water resources department
- and private companies

**REMARKS**
- of the 724 stations:
  - 6 opened in 1890s, 10 opened in 1900s, 13 opened in 1910s,
  - 35 opened in 1920s, 40 opened in 1930s, 40 opened in 1940s,
  - 154 opened in 1950s, 162 opened in 1960s, 196 opened in 1970s,
  - 68 opened in 1980s;
- of the 724 stations, 120 have been closed
- published monthly and annual totals, monthly and long-term normals;
- publication is in English

**freq./size**
- 1 annual publication (10 pages); 1 decadal publication (40-50 pages); 1 30-year publication (about 200 pages)

**title**
- Totals of Monthly and Annual Rainfall for a Season;
- Totals of Monthly and Annual Rainfall for a Decade;
- Monthly and Annual Rainfall in Malawi during the 30 years 1941-1970
- (published in 1981);
- Summary of Monthly and Annual Rainfall Averages in Malawi since Stations Opened
- (published in 1981)

**author/editor:** centre 154A

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### Malawi Meteorological Department

#### #0154 (B.154)
**FORM AND MEDIA**
- MONTHLY MEANS AND EXTREMES OF SUNSHINE DURATION DATA - MALAWI
- 1 set; computer-readable, published, original

**PERIOD**
- 1940-current

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ClibPDF - www.fastio.com
Areas within countries

#0154 (B.154) : (continued)

AREA : Malawi
ELEMENTS : sunshine duration
ARRANGEMENT : per station
STATISTICS/DATA: hourly means/totals
monthly means/totals
PUBLISHED AS : regular summary
climatological tables
FREQUENCYGRID : daily
SITES/LEVELS : 19 stations
MEDIA DETAILS : manuscript; magnetic tape
QUALITY CONTROL : manual
ORIGIN OF DATA : observations done at full time synoptic and climatological
stations in Malawi
REMARKS : data are archived and published together with other
climatological data described under category B
PUBLISHED : daily totals, monthly means & long-term normals
freq./size : 15 page monthly publication
title : - Monthly Summaries;
- Climatological Tables for Malawi (Nov. 1960 & July 1982)
author/editor : centre 154A
CENTRE 154A (1988)
Malawi Meteorological Department

#0986 (B.154) : PAN EVAPORATION DATA - MALAWI
FORM AND MEDIA : 1 set; published
PERIOD : 1951-1978
AREA : Malawi
ELEMENTS : evaporation
ARRANGEMENT : per station
networks of stations
STATISTICS/DATA: daily means/totals
monthly means/totals
annual means/totals
PUBLISHED AS : climatological tables
details : network covers entire country of which area is 118,484 km2
observations are done once a day at 0800 hours
PUBLISHED : 10-day pan evaporation data for each month in each year
freq./size : this data has so far been published once
title : A Summary of Rainfall, Pan Evaporation and Temperature Data,
Annexes I, II and III
author/editor : J. van der Velden
publisher : Ministry of Agriculture and Natural Resources; Water Resources
Department; August 1979, Lilongwe
CENTRE 154B (1987)
Water Dept., Ministry of Works and Supplies - Malawi

#0519 (B.158) : SURFACE CLIMATOLOGICAL DATA - MAURITIUS
FORM AND MEDIA : 1 set; published,original
PERIOD : variable-current (see below)
AREA : Mauritius
ELEMENTS : precipitation
temperature(max/min)
temperature(air)
wind
pressure(air)
humidity
weather
cloud
evaporation
sunshine duration
soil temperature
visibility
grass or ground minimum temp.
ARRANGEMENT : per station
STATISTICS/DATA: daily means/totals
monthly means/totals
annual means/totals
daily extremes
monthly extremes
annual extremes
PUBLISHED AS : regular summary
climatological tables
charts/atlas
details : no. of days with thunder & other significant weather data are
counted; for humidity: relative humidity
FREQUENCY/GGRID : observations at 0000, 0300, 0600, 0900, 1200, 1500, 1800 and
2100 GMT for 1 main synoptic station at Plaisance (Mauritius);

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#0519 (B.158) : (continued)
FREQUENCY/GRID : observations at 0000, 0300, 0600, 0900, 1200, 1500 and 1800 GMT for synoptic stations at Rodrigues, Agalega & St. Brandon; once daily for other climatological stations
SITES / LEVELS : no. of stations: rainfall(256), temperature(34), pressure(3)
humidity(20)
MEDIA DETAILS : observation books and monthly climatological return sheets
QUALITY CONTROL : manual
REMARKS : some of the rainfall stations have more than 100 years of data
PUBLISHED : daily values and means
freq./size : monthly
title : Climatological tables
author/editor : centre 158A
CENTRE 158A (1987)
Mauritius Meteorological Service

#0520 (B.158) :
SURFACE RADIATION DATA - MAURITIUS
see pages
Cat: C Country: 158 (centre 158A, data set #0520)

#0940 (B.158) :
Precipitation DATA - MAURITIUS
FORM AND MEDIA : 1 set; computer-readable, original
PERIOD : 1967-current
AREA : Mauritius
ELEMENTS : precipitation
ARRANGEMENT : chronology/time series
STATISTICS/DATA : daily means/ totals
annual means/ totals
data as measured/ observed
10 stations under direct control of centre 158B
DETAILS : continuous recording
SITES / LEVELS : 10
MEDIA DETAILS : data sent to Meteorological Service, Mauritius; data are now being transferred to diskettes
QUALITY CONTROL : is underway
CENTRE 158B (1987)
Hydrology Section, Central Water Authority - Mauritius

#0281 (B.160) : DAILY CLIMATOLOGICAL DATA - MOROCCO
FORM AND MEDIA : 1 set; computer-readable
PERIOD : 1950-current (see below)
AREA : Morocco
ELEMENTS : precipitation
temperature(max/min)
wind
humidity
weather
cloud
evaporation
snow (depth, coverage)
sunshine duration
visibility
state of the soil
ARRANGEMENT : per station
STATISTICS/DATA : daily extremes
data as measured/ observed
FREQUENCY/GRID : synoptic observations
SITES / LEVELS : 28 stations
MEDIA DETAILS : punched cards and magnetic tape (EBCDIC, 9-track, 1600 bpi)
QUALITY CONTROL : limits checks; manual control
REMARKS : periods: from 1950 10 stations; from 1971 1 station;
from 1954 2 stations; from 1973 1 station;
from 1956 7 stations; from 1975 2 stations;
from 1962 2 stations; from 1976 2 stations;
from 1969 1 station;
CENTRE 160A (1984)
Direction de la Météorologie nationale - Maroc

#0523 (B.161) : NATIONAL CLIMATOLOGICAL DATA - MOZAMBIQUE
FORM AND MEDIA : group of sets; published, original
PERIOD : 1909-current (see below)
AREA : Mozambique
ELEMENTS : precipitation
temperature(max/min)
weather
temperature(air)
cloud
wind
pressure(air)
evaporation
sunshine duration
ARRANGEMENT : per station
STATISTICS/DATA : hourly means/ totals
monthly extremes
Areas within countries

#0523 (B.161) : (continued)

STATISTICS/DATA: daily means/totals
(monthly means/totals
annual means/totals
daily extremes)
FREQUENCY/GGRID: 24 obs/day: 10 stations;
3 obs/day: 12 stations at 09, 15 & 21 hours local time;
1 obs/day: 68 stations at 09 hours local time
SITES / LEVELS: at present 90 stations: 22 synoptic & climatological stations
+ 68 climatological stations
MEDIA DETAILS: manuscript; publications
VOLUME OF DATA: unknown
QUALITY CONTROL: manual
ORIGIN OF DATA: synoptic and climatological stations, rainfall stations
REMARKS: old heterogeneous material, often very short series; broken
periods for some stations, the stations do not all begin at
the same year; rainfall stations temporarily closed

CENTRE 161A (1986)
Serviço Meteorológico de Moçambique

#0988 (B.161) : PRECIPITATION DATA - MOZAMBIQUE
FORM AND MEDIA: 1 set; computer-readable, original
PERIOD: 1907-1987
AREA: Mozambique
ELEMENTS: precipitation
ARRANGEMENT: per station
STATISTICS/DATA: daily means/totals
(monthly means/totals
annual means/total
71 year means/total
FREQUENCY/GGRID: daily where possible
SITES / LEVELS: standard raingauge; 1,247 inventorized stations
VOLUME OF DATA: 20,000 station-years
QUALITY CONTROL: validation and control phase
CENTRE 161B (1987)
Direção Nacional de Aguas - Mozambique

#0390 (B.165) : SURFACE CLIMATOLOGICAL DATA - NIGER
FORM AND MEDIA: 1 set; original
PERIOD: 1905-1983
AREA: Niger
ELEMENTS: precipitation
temperature(max/min)
temperature(air)
wind
pressure(air)
ARRANGEMENT: synoptic arrangement
STATISTICS/DATA: monthly means/total
annual means/total
daily extremes
monthly frequencies
FREQUENCY/GGRID: 8 obs/day for synoptic stations; 1 obs/day for precipitation
SITES / LEVELS: 12 synoptic stations; 82 precipitation stations
MEDIA DETAILS: original documents (manuscript)
QUALITY CONTROL: manual checks by national centre; automated checks by ASECNA
REMARKS: elements

CENTRE 165A (1984)
Direction de la Météorologie nationale - Niger

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Areas within countries

#0889 (B.166): CLIMATOLOGICAL NORMALS & AVERAGES - NIGERIA
FORM AND MEDIA: group of sets; original
PERIOD: 1900-current
AREA: Nigeria
ELEMENTS: precipitation
temperature(max/min)
temperature(air)
wind
pressure(air)
humidity
cloud
evaporation
sunshine duration
soil temperature
visibility
grass or ground minimum temp.
ARRANGEMENT: synoptic arrangement
STATISTICS/DATA: daily means/totals
monthly means/totals
annual means/totals
counts of no. of days
standard deviations
DETAILS: normals: 1931-1960; measured/observed data included in set
FREQUENCY/GRID: hourly
SITES / LEVELS: 45 synoptic stations; 500 rainfall stations
QUALITY CONTROL: manual and sometimes automated
ORIGIN OF DATA: meteorological & climatological stations; private contributors
CENTRE 166A (1987)
Nigerian Meteorological Service (Meteorological Data Centre)

#0890 (B.166): SOLAR (GUN-BELLANT) RADIATION - NIGERIA
see pages Cat: C Country: 166 (centre 166A, data set #0890)

#0922 (B.172): HYDROLOGICAL DATA - SENEGAL
see pages Cat: H Country: 172 (centre 172B, data set #0922)

#0332 (B.175): DAILY, MONTHLY AND ANNUAL CLIMATOLOGICAL DATA - SIERRA LEONE
FORM AND MEDIA: 1 set; published, original
PERIOD: 1913-current (see below)
AREA: Sierra Leone
ELEMENTS: precipitation
weather
temperature(max/min)
cloud
temperature(air)
evaporation
wind
sunshine duration
pressure(air)
grass or ground minimum temp.
humidity
ARRANGEMENT: per station
STATISTICS/DATA: monthly means/totals
annual means/totals
monthly frequencies
monthly extremes
annual frequencies
annual extremes
counts of no. of days
data as measured/observed
PUBLISHED AS: climatological tables
DETAILS: counts of no. of days: with thunder, with fog, with dust haze,
with precipitation >= 0.1 mm;
counts of no. of line squalls;
for humidity: vapour pressure, relative humidity and wet-bulb
temperature
FREQUENCY/GRID: 8 obs/day for synoptic stations at 0000, 0300, 0600, 0900, 1200, 1500, 1800, 2100 GMT;
2 obs/day for climatological stations at 0900, 1500 GMT;
1 obs/day for rainfall stations at 0600 GMT
SITES / LEVELS: 42 stations: 10 synoptic, 10 climatological, 7 rainfall,
15 agrometeorological
MEDIA DETAILS: hard cover files
QUALITY CONTROL: on the spot checks; internal consistency
REMARKS: broken periods for some stations
PUBLISHED: annual publication covers part of the data
CENTRE 175A (1986)
Sierra Leone Meteorological Services

#0993 (B.175): HYDROLOGICAL YEARBOOK - SIERRA LEONE
see pages Cat: H Country: 175 (centre 175B, data set #0993)

#0155 (B.177): MEAN VALUES AND EXTREMES OF CLIMATOLOGICAL ELEMENTS - SOMALIA
FORM AND MEDIA: 1 set; original
PERIOD: 1951-1980 (see below)
AREA: Somalia
ELEMENTS: precipitation
wind
temperature(max/min)
pressure(air)
temperature(air)
humidity
ARRANGEMENT: per station