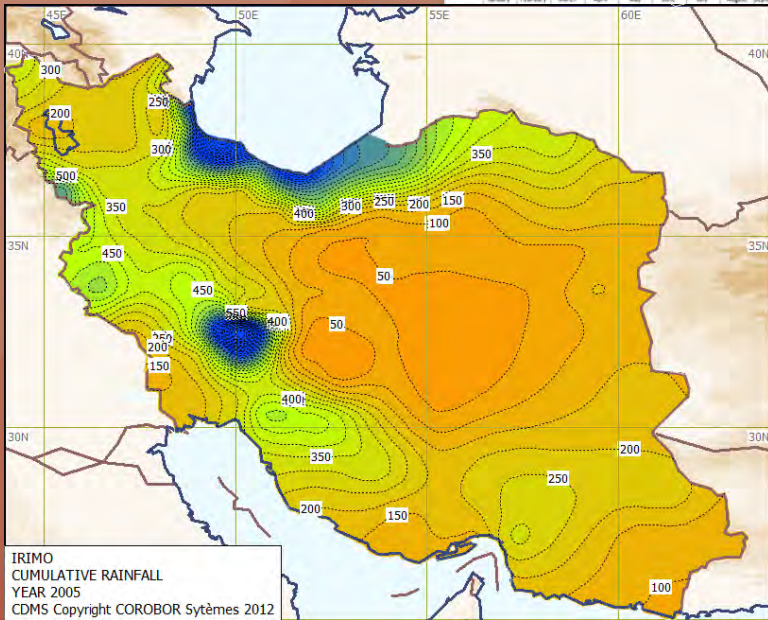
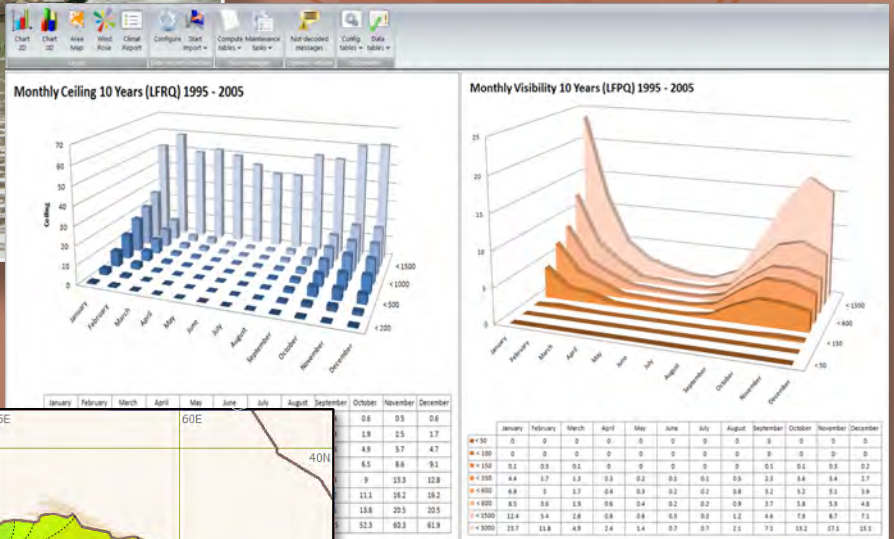


MESSIR-CLIM[®]

Climate Database

Quality Control, Standard Reports - Graphical Products



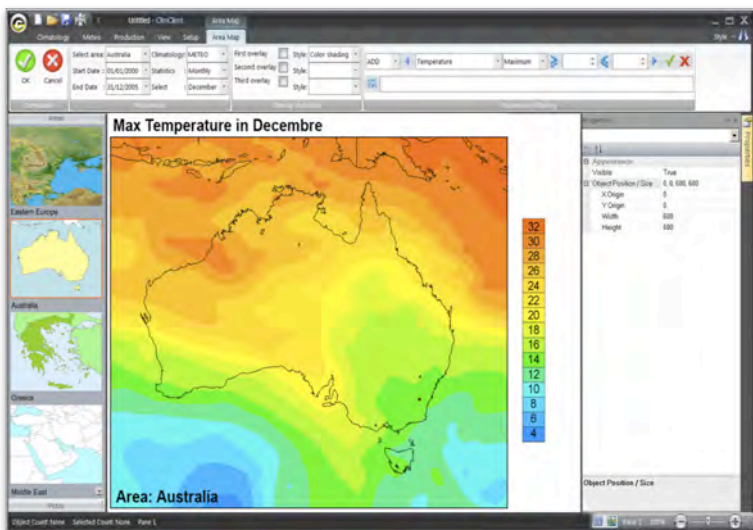
Climatology plays the watchdog role of weather and climate. Through a long series of observations, it can objectively measure the evolution of weather parameters (temperature, precipitation ...) and draw trends of climate change.

Climatology helps to answer questions such as:

- What was the weather for a given location, day, time and what is the most likely weather for a given day?
- What are the potential risks in such a place?

National Meteorological Services needs for climatology are:

- Acquire and store observation data
- Manage and control the quality of data
- Produce and distribute data and climate products



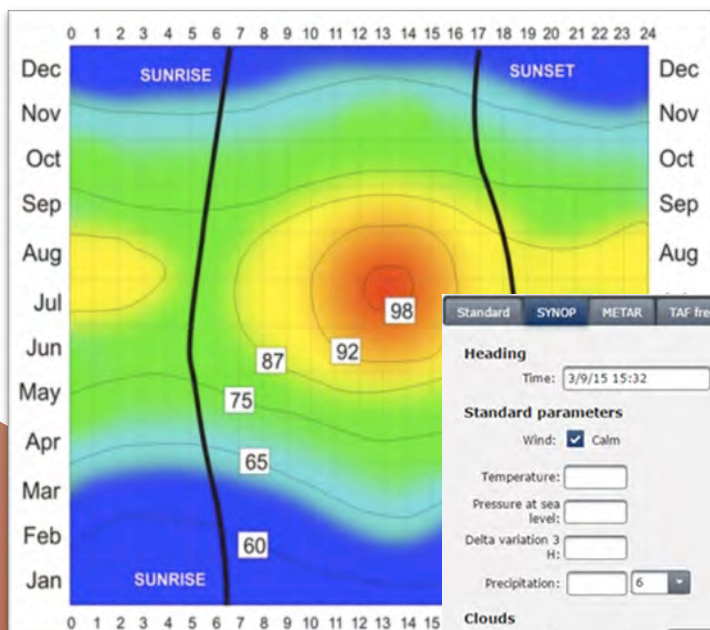
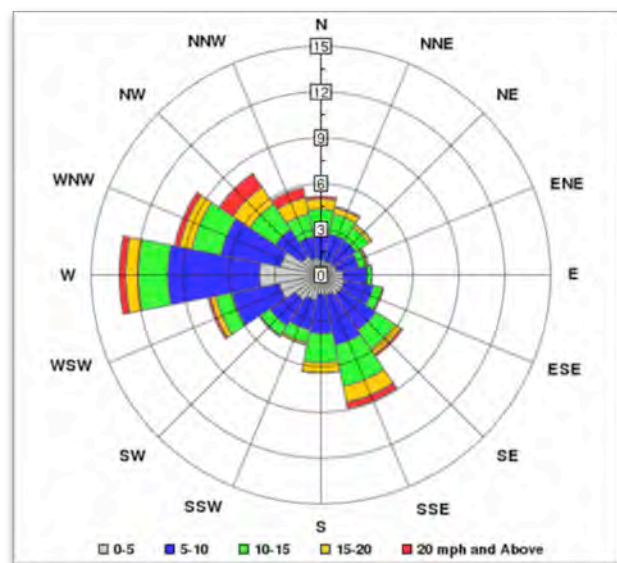
COMPLIANCE WITH WMO / ICAO STANDARDS, TDCF AND WIS MIGRATION

MESSIR-CLIM Workstation integrates a vast amount of information and displays:

- Historical and climate maps including averages, minima, maxima of usual parameters
- Automatic production of Yearly book, Normals, Summary bulletins
- Data are Quality-Controlled, according to standard practices.

MESSIR-CLIM creates monthly CLIMAT messages and sends them in WMO BUFR form through GTS using MESSIR-COMM.

MESSIR-CLIM allows comparing climate information with the latest meteorological data available – for example, users can compare real data and climate fields, in order to locate anomalies.



Standard SYNOP METAR TAF free TAF assisted Free

Heading
Time: 3/9/15 15:32

Standard parameters
Wind: Calm Speed:
Temperature: Dew point:
Pressure at sea level: Pressure at station:
Delta variation 3 H: Pressure variation 24 H:
Precipitation: 6

Clouds
Total: Cover:
Low cloud: Cover: Type:

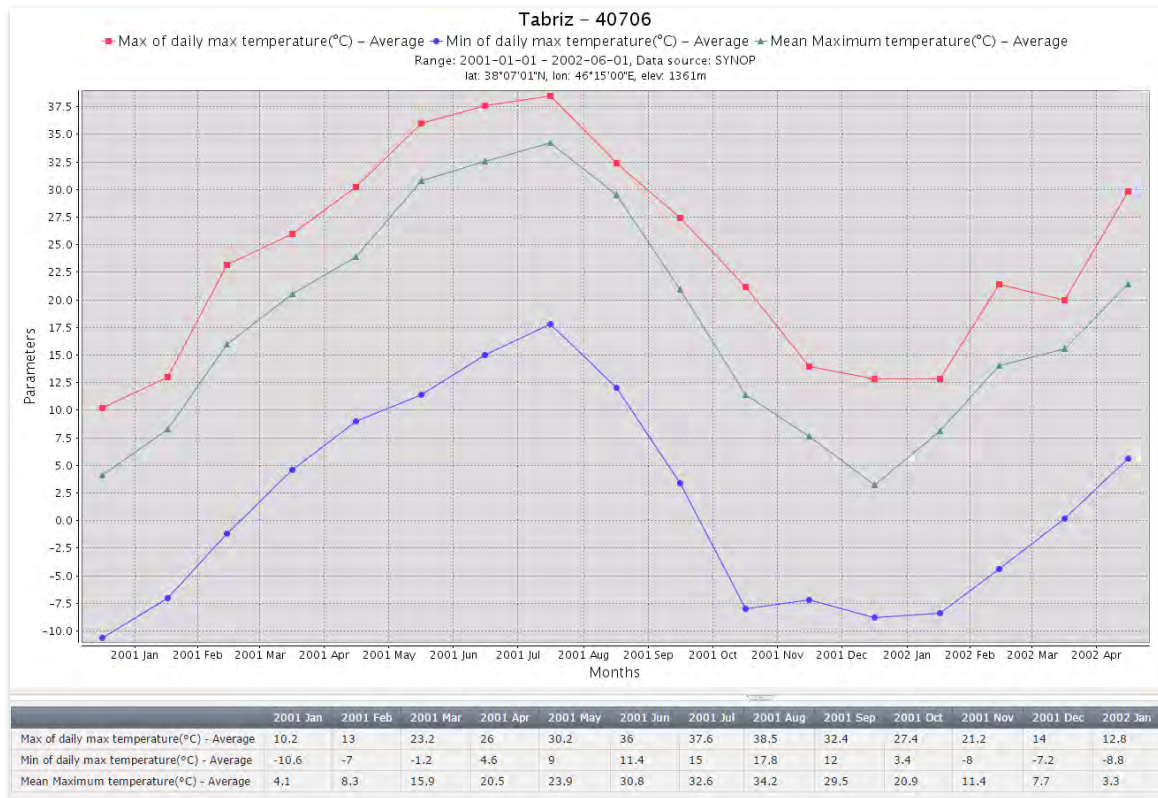
DISPLAY AND PRINT YOUR PRODUCTS

- MESSIR-CLIM products can be tables, files, maps or diagrams
- The filtering criteria can be time intervals, areas, specific parameters and value criteria for selected parameters
- Export climate products: image format, XML, CSV, MS Word, MS PowerPoint...

A POWERFUL RDBMS

MESSIR-CLIM Climate Data Management System is based on SQL standards. The powerful Database stores on-line decades of Climate Data.

Users can develop their own requests / interface to the MESSIR-CLIM Database



Average of dry bulb temperature in C

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1996	-0.6	2.0	4.8	10.5	18.3	21.7	26.8	26.5	21.7	14.2	6.5	5.1	13.1
1997	-0.6	-2.1	1.6	10.7	17.4	22.9	25.7	26.8	19.3	15.2	7.0	1.7	12.1
1998	-2.6	-2.8	5.9	12.9	17.7	25.3	26.1	27.0	21.9	15.0	10.6	5.1	13.5
1999	1.2	3.6	6.6	11.8	18.1	24.0	25.3	28.0	21.0	14.9	5.9	2.9	13.6
2000	-0.4	0.1	5.0	14.5	18.6	23.7	28.7	26.6	22.0	13.2	6.6	2.3	13.4
2001	-0.5	2.8	9.7	14.4	17.4	23.8	25.8	26.9	22.5	14.4	6.2	3.5	13.9
2002	-1.5	2.4	7.8	10.5	15.4	22.5	25.9	25.4	23.3	16.6	7.7	-3.1	12.7
2003	-0.1	1.4	4.2	11.0	17.2	21.7	26.1	27.3	22.0	17.6	7.6	2.2	13.2
2004	2.5	3.3	9.0	11.1	16.6	23.8	25.4	27.5	22.3	16.6	7.3	-2.4	13.6
2005	-2.9	-1.1	7.2	13.4	17.2	22.9	27.7	26.5	22.0	15.3	7.1	4.3	13.3
2006	-2.8	2.7	8.1	13.6	18.5	26.0	26.3	28.8	21.9	15.2	4.1	-2.1	13.4
2007	-4.7	1.6	5.0	9.9	18.9	23.3	25.1	26.4	23.8	16.1	7.0	-0.6	12.7

MESSIR-CLIM HIGHLIGHTS

MESSIR-CLIM SQL database offers easy and fast access to a large amount of meteorological information.

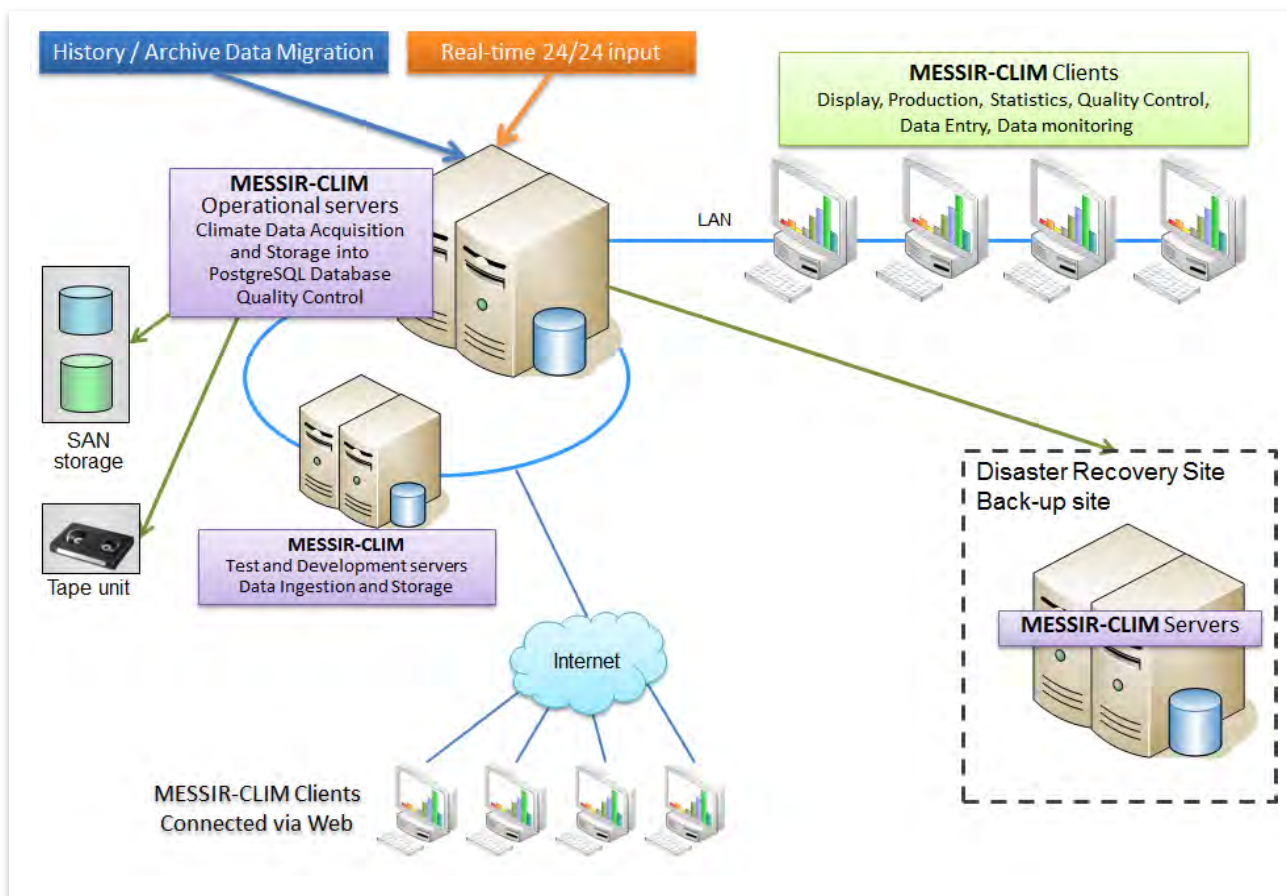
MESSIR-CLIM recovers your legacy / history data of the last decades.

MESSIR-CLIM quality control module checks all the data ingested or entered on-line via Web forms from all across the country. Data validity, internal, temporal and spatial consistencies are flagged in real time. The checks are configurable by the database administrator through a user-friendly interface.

MESSIR-CLIM allows for easily and automatically producing Climate tables, files, maps and diagrams

MESSIR-CLIM is compliant with Guide to Climatological Practices WMO - No. 100 and Annex 3 ICAO requirements.

DATA FLOW



MORE THAN 1400 MESSIR SYSTEMS IN MORE THAN 130 COUNTRIES



The quality management of COROBOR Systems is ISO 9001 certified for the supply of information systems and software for meteorology and aeronautics.

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