

How to find information in OSCAR/Surface?



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale

Learning topics

1. Where can you find information?
2. How can you find information?
3. How you can export results?
4. The station report
5. Which information is available?

Where to find information?

Quick station
access

Access detailed
search

Quick-search

Map filter

The screenshot shows the WMO OSCAR/Surface website interface. At the top, there is a navigation bar with links: About, News, Glossary, FAQ, Links, Support, Feedback, and Login. Below this is a secondary bar with the WMO logo and text: "World Meteorological Organization", "Confédération suisse", "Confederazione Svizzera", "Confederaziun svizra", "Swiss Confederation", and "Federal Department of Home Affairs, Federal Office of Meteorology and Climatology".

Callouts highlight the following features:

- Quick station access:** Points to the "Home", "Search", and "Critical review" buttons in the main navigation bar.
- Access detailed search:** Points to the "Search" button in the main navigation bar.
- Quick-search:** Points to the search bar on the right side of the page.
- Map filter:** Points to the "Filter map" section, which includes a "By program / network:" list with checkboxes for WIGOS components (WIGOS components, GOS, GAW, WHOS, GCW), Co-sponsored components (GCOS, GOOS, GTOS), and Other components.

The main content area is titled "Welcome to OSCAR/Surface" and includes a "Quick access" section with dropdown menus for "Generate station report by:" (Station name, WMO ID) and "Generate station lists by:" (Country, Type). Below this is a "Find people by:" section with a dropdown for "Contact name".

The "Map filter" section includes a "By program / network:" list with checkboxes for WIGOS components (WIGOS components, GOS, GAW, WHOS, GCW), Co-sponsored components (GCOS, GOOS, GTOS), and Other components.

The "Latest news" section includes a date "2016-11-30" and a headline "Scheduled maintenance, 13 December 2016". The text below the headline states: "Both GAWSYS and OSCAR will be temporary unavailable on 13 December 2016 between 14.00 and 15.00 UTC due to scheduled maintenance. We apologise for any inconvenience." Below this, there is a date "2016-10-31" and a headline "GAWSYS, OSCAR has been updated and new features are now available".

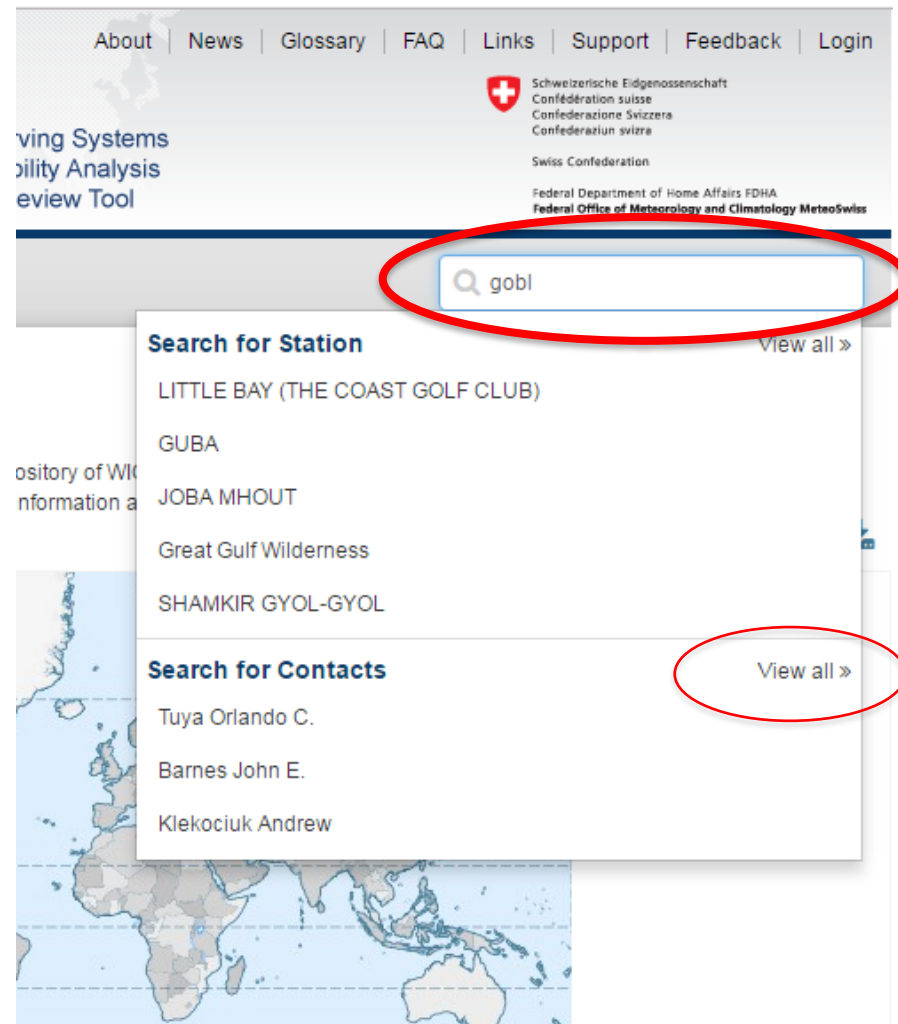


WMO OMM

Quick search

- Quickly and directly access stations and contacts by name
- Results show as you type

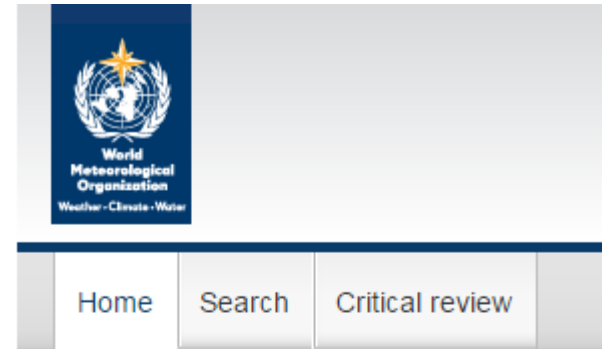
Try finding yourself and then a station in your country using the quick-search!



Quick station access

- **Directly** access station by name or WMO ID
- **Directly** access contact by name
- **Generate list** of stations by countr or Type

Use the Quick access to list all stations in your country!



Quick access

Generate station report by:

Station name

WMO ID

Generate station lists by:

Country

Type

Find people by:

Contact name

Map filter

- Only show selected programs/networks on the map
- Tree structure allows to select all child elements

Filter map

By program / network:

☐ WIGOS components

☐ GCOS

☒ GAW

☐ WHOS

☐ GCW

☐ Co-sponsored components

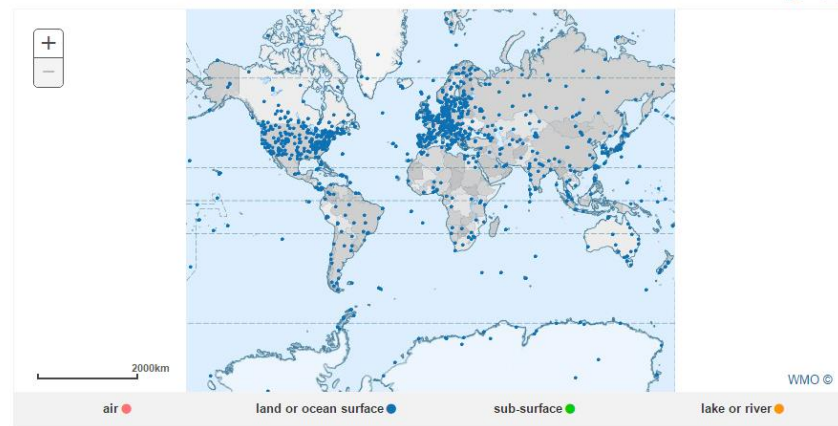
☐ GCOS

☐ GOOS

☐ GTOS

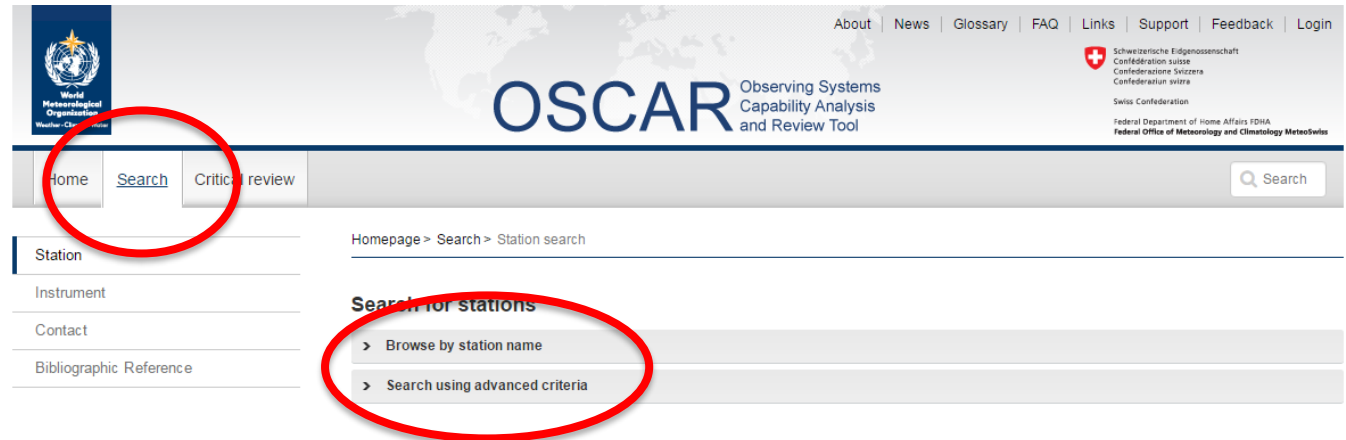
Welcome to OSCAR/Surface

OSCAR/Surface is the World Meteorological Organization's official repository of WIGOS metadata for all surface-based observing stations and platforms. For more details on OSCAR, please visit the About section. For additional information about WIGOS, visit the WIGOS Homepage.



Try to display only GAW
stations on the map!

Search for stations



- In the search form you can search stations by name or by advanced criteria

Searching stations using advanced criteria

There are multiple categories of criteria

- Location
- Affiliation
- Measured variables
- Country

Homepage > Search > Station search

Search for stations

▼ Browse by station name

Station name:

▼ Search using advanced criteria

Criteria matching: [?](#) ☒ All ☐ Any

Search term:

Near Real Time only: ☐

Station type: [?](#)

<input type="checkbox"/> Air (fixed)	<input type="checkbox"/> Sea (fixed)
<input type="checkbox"/> Air (mobile)	<input type="checkbox"/> Sea (mobile)
<input type="checkbox"/> Lake/River (fixed)	<input type="checkbox"/> Sea (on ice)
<input type="checkbox"/> Lake/River (mobile)	<input type="checkbox"/> Space-based
<input type="checkbox"/> Land (fixed)	<input type="checkbox"/> Underwater (fixed)
<input type="checkbox"/> Land (mobile)	<input type="checkbox"/> Underwater (mobile)
<input type="checkbox"/> Land (on ice)	

Station class:

<input type="checkbox"/> A (Aerodrome)	<input type="checkbox"/> M (Mountain station)
<input type="checkbox"/> AGRIMET (Agrometeorological station)	<input type="checkbox"/> R/F/C (River forecast centre)
<input type="checkbox"/> C (Coastal station)	<input type="checkbox"/> TIVWAFC (Tidal wave forecast centre)
<input type="checkbox"/> HD/A (Helideck, Offshore)	<input type="checkbox"/> WN (Upper-wind station (radiosonde observations made by using navigation aids (NAVAID)))
<input type="checkbox"/> HU/FC (Hurricane, tropical cyclone or typhoon forecast centre)	<input type="checkbox"/> WVP (Wind Profiler)
<input type="checkbox"/> HY/A (Seaplane base)	<input type="checkbox"/> WVR (Upper-wind station (observations made by radar))
<input type="checkbox"/> L (Lighthouse)	<input type="checkbox"/> WVT (Upper-wind station (observations made by radiotheodolite))
<input type="checkbox"/> LH (Lighthouse)	<input type="checkbox"/> WVTR (Upper-wind station (observations made by radiotheodolite/radar composite method))

Program / network affiliation:

WMO Region / Country:

Organization:

Variable: [?](#)

Climate zone: [?](#)

Geographic coordinates: [?](#)

Latitude from Longitude from

Latitude to Longitude to

Elevation: [?](#) From: meters To: meters

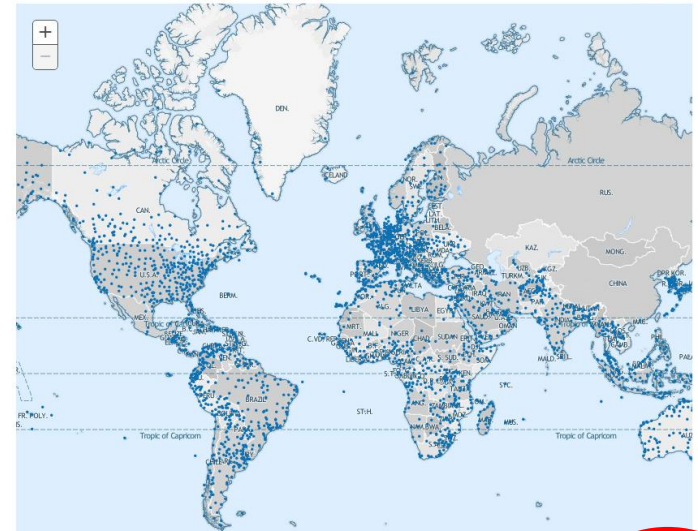
The search result

The result of the search is shown on the map and in tabular form

It is possible to download the result as list or image

Clicking on the name opens the station details

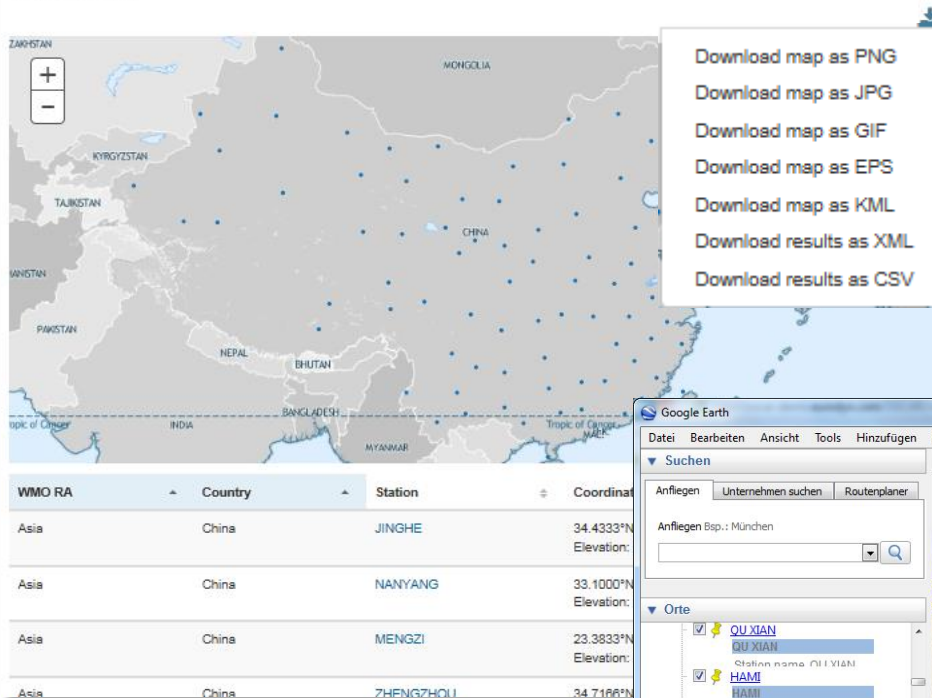
The station can also be located on the map by clicking on the binoculars to the right



WMO Region	Country	Station	Coordinates	Actions
Africa	Algeria	CONSTANTINE	36.2833°N 6.6166°E Elevation: 706	
Africa	Algeria	ALGER	27.2333°N 2.5000°E Elevation: 273	
Africa	Algeria	DAR-EL-BEIDA	36.6833°N 3.2166°E Elevation: 25	
Africa	Algeria	JULES-VERNE	36.8000°N 5.8833°E Elevation: 11	
Africa	Algeria	BORDJ-BADJ-MOKHTAR	21.3333°N 0.9500°E Elevation: 398	
Africa	Algeria	HASSI-MESSAOUD	31.6666°N 6.1500°E Elevation: 140	
Africa	Algeria	TLEMCEEN-ZENATA	35.0166°N 1.4666°W Elevation: 248	
Africa	Algeria	MASCARA-GHRISS	35.3500°N 0.1500°E Elevation: 516	
Africa	Algeria	BIISKRA	34.8000°N 5.7333°E Elevation: 88	
Africa	Algeria	BECHAR	31.5000°N 2.2500°W Elevation: 811	

OSCAR search results

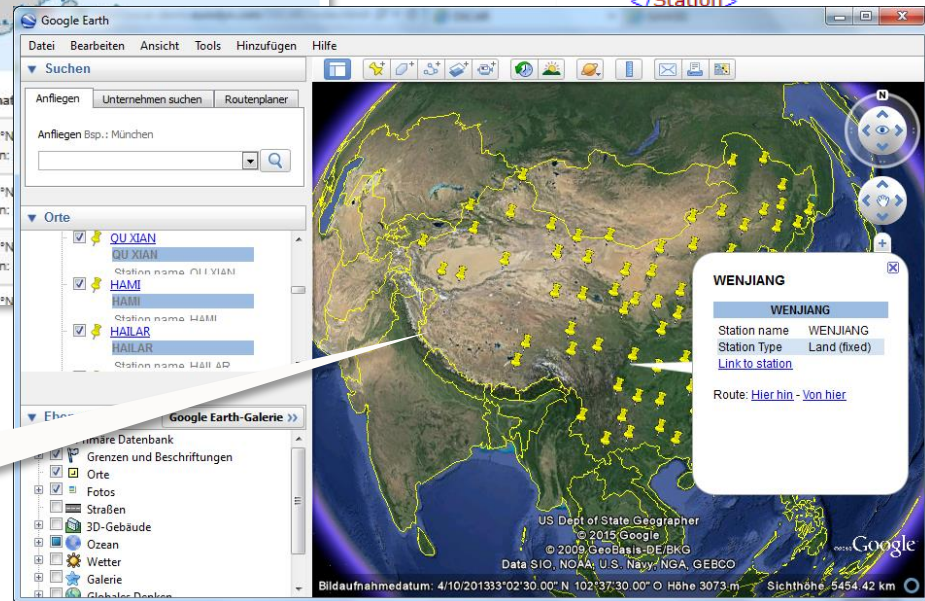
Search results



Download for further analysis

```
<?xml version="1.0" encoding="UTF-8"?>
- <list>
  - <Station>
    <wmoRa>Asia</wmoRa>
    <country>China</country>
    <station>SHANTOU</station>
    <latitude>23.35</latitude>
    <longitude>116.6666666667</longitude>
    <elevation>4</elevation>
    <wmoIndex>0-20001-0-59316</wmoIndex>
  </Station>
```

Integration with GoogleEarth



The station report

- The station report contains all relevant information about the station
- It is categorized into five main categories
- Each of the categories can be expanded
- The observations / measurements category has further expandable sub-menus

Homepage > Search > Station search > Station report details

[Edit](#) [Download](#)

DAR-EL-BEIDA (Algeria)
in WMO Region I - Africa

Last updated: 2016-04-28

> Station characteristics

> Observations / measurements

> Station contacts

> Bibliographic references

> Documents

▼ Observations / measurements

▼ Atmosphere > Humidity

▼ Humidity (at specified distance from reference surface) [Method: (unknown / unspecified)]

Variable:	Humidity (at specified distance from reference surface)
Variable unit:	(unknown)
Geometry:	Point
Analytical method:	(unknown / unspecified)
Near Real Time:	No
Programs / network affiliation:	Name

GOS(from 2016-04-28)

CLIMAT(C)(from 2016-04-28)

RBCN(from 2016-04-28)

RBSN(ST)(from 2016-04-28)

Last updated:

On 2016-05-31

▼ Data series segments

▼ From unspecified

Schedule

▼ Monday to Sunday , 00:00 to 21:00 , every 3 hour (h)

Temporal reporting interval:	3 hour (h)
Diurnal base time:	00: 00
Month:	From: January To: December
Day:	From: Monday To: Sunday
Hour:	From: 00:00 To: 21:00

> Monday to Sunday , 00:00 to 23:00 , every 30 minute (time) (min)

Instruments

> (unknown / unspecified) (unknown)

> Watervapor profile [Method: Radiosonde (tracking unspecified)]

Which information is available in OSCAR/Surface?

stations

- GAWSIS
 - Metadata for the Global Atmosphere Watch 1'053
- WMO Pub 9 Vol A
 - Catalogue of synoptic and upper-air stations of GOS 13'026
- JCOMMOPS
 - Marine element of GOS / GOOS 11'387
- WMO Radar DB
 - WMO Weather Radars 762

Other components, such as Aircraft Based Observations, to be added soon

Sometimes there are multiple stations with the same name in OSCAR (e.g. Tamanrasset). The reason is that a station with this name existed in two or more of the data-sources (e.g. Vol A and GAWSIS), or was listed twice in Vol A as surface and upper-air stations

Learning topics

1. Where can you find information?
2. How can you find information?
3. How you can export results?
4. The station report
5. Which information is available?

Thank you Merci



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale