



Schweizerische Eidgenossenschaft
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Bundesamt für Meteorologie und Klimatologie MeteoSchweiz



World Meteorological Organization
Organisation météorologique mondiale

OSCAR/Surface and WSI Part 2

29-30 January 2024, Zagreb



Topics

Demonstration

1. WSI Allocation for Hydrology Stations (Covered in Part 1)
2. Search
 - Overview
 - Use case 1: search for National Focal Point and Metadata editor by country
 - Use case 2: Search for stations by country and operational status
3. Management of stations and station clusters
 - Overview
 - Use case 1: Registration of a new station (GUI – station form) – including allocation of WSI
 - Use case 2: Registration of a new station cluster
4. Support material



Search: overview

- Browse for a station or contact
- Search for:
 - Stations
 - Station clusters
 - Contacts
 - Bibliographic references
- Exportable results (including maps) in various formats
- on GUI and via API
- Open to the public

The screenshot displays the OSCAR (Observing Systems Capability Analysis and Review Tool) search interface. At the top, there are navigation links and a search bar. Below the search bar, a note indicates that the current environment is a test environment. The interface is divided into several sections:

- Search filters:** Includes options for Station, Station cluster, Instrument, Contact, and Bibliographic Reference. There are also filters for Station name, WMO Station Identifier, and search criteria (All or Any).
- Station type:** A list of checkboxes for various station types such as Land (fixed), Air (fixed), and Radiation.
- Station class:** A list of checkboxes for station classes like Agricultural meteorological station, Aircraft meteorological station, and Automatic weather station (AWS).
- Program / network affiliation:** A dropdown menu for selecting the reporting status.
- WMO Region / Country:** A dropdown menu for selecting the geographic region.
- Organization:** A text input field for the organization name.
- Climate zone:** A dropdown menu for selecting the climate zone.
- Geographic coordinates:** Input fields for longitude and latitude.

On the right side, there is a map of Europe with blue markers representing station locations. Below the map, a table lists search results. The first result is highlighted:

Region	Country	Status	Coordinates	WMO ID	Action
Europe	Switzerland	ACTIVE / IN-SERVICE	47.078°N 8.804°E	9-20000-0-0079	Download

Below the table, a detailed view of the PAYERNE (6410-4) station is shown, including its name, location, and various metadata. A large blue arrow points from the search filters to the map, and another points from the table to the detailed station view.



Search for contacts and stations

Search for contacts

Homepage > Search > Contact search

Station cluster
Instrument
Contact
Bibliographic Reference

Search for contacts

Browse by contact name

Contact name

Search

Criteria matching: All Any

Search term

User role / program function: National Focal Point

Country of responsibility: Croatia

Program / network affiliation

WMO Region / Country

Measurement leader / principal investigator for variable

Search Reset

Search results

2 contacts found

Full Name	Organization	User role / program function
Magarevic Vjeran	(unknown)	Instrument Expert, National focal point in Croatia
Milic Velimir	Meteorological and Hydrological Service of Croatia	Instrument Expert, National focal point in Croatia for GAW

Download

Search for stations

Homepage > Search > Station search

Station cluster
Instrument
Contact
Bibliographic Reference

Search for stations

Browse by station name

Station name

WIGOS Station identifier

Search using advanced criteria

Criteria matching: All Any

Search term

Near Real Time only

Station type

Station class

Program / network affiliation

Station reporting status

WMO Region / Country

Organization

Variable

Climate zone

Geographic coordinates

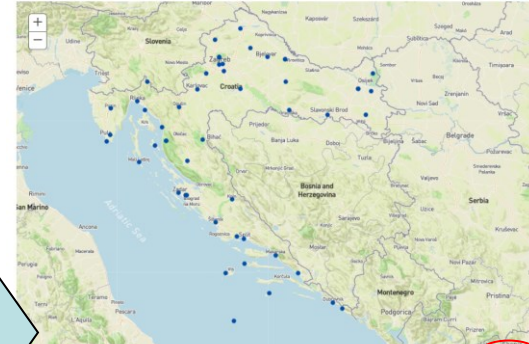
Elevation

Download

Search results

51 stations / platforms found.

The results shown on the map refer to the station declared status.



WMO Region	Country	Station	Coordinates	WIGOS ID	Actions
Europe	Croatia	BILGORA	45.8836°N 17.2002°E Elevation: 262	0-20000-0-14256	Download
Europe	Croatia	BUELOVAR	45.9097°N 16.8694°E Elevation: 141	0-20000-0-14253	Download
Europe	Croatia	Bilgora	45.8833°N 17.2000°E Elevation: 262	0-20000-0-BIG0	Download
Europe	Croatia	DARUNAR	45.5913°N 17.2100°E Elevation: 153	0-20000-0-14256	Download
Europe	Croatia	DUBROVNIKCLIP	42.3027°N 18.2700°E Elevation: 157	0-20000-0-14474	Download
Europe	Croatia	DUBROVNIKGORICA	42.5447°N 18.0850°E Elevation: 52	0-20000-0-14370	Download
Europe	Croatia	GOSPIC	44.5502°N 15.3730°E Elevation: 564	0-20000-0-14330	Download
Europe	Croatia	GRADISTE	45.1581°N 16.7030°E Elevation: 97	0-20000-0-14382	Download
Europe	Croatia	Gal Vrh	45.6875°N 15.7244°E Elevation: 166	0-191-0-14238	Download
Europe	Croatia	Gorice	45.2236°N 17.2783°E Elevation: 135	0-191-0-14365	Download

API: <https://oscardepl.wmo.int/surface//rest/api/search/station?territoryName=HRV&operatingStatus=operational>



Management of stations: overview

1. Management of single stations:
 1. GUI: station registration form
 2. GUI: WMDR XML upload

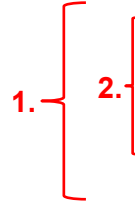
2. Batch registration and edit of stations:
 1. GUI: [Web client](#)
 2. Machine to machine: WMDR XML API



Registration of a station

1/2

1. Management console
 - My stations → all editable stations or drafts
 - Register new station
2. Generic form / templates
3. Basic / advanced form
4. Tooltips
5. Historization
 - From
 - From/to
6. Date picker



Note: This is a test environment, use OSCAR for the operational environment. ✕

Home > Management > Stations > Register new station > Generic form Save as draft Submit Cancel

Stations

- Register new station
- Generic form**
- GBON Surface Land Station
- SYNOP template
- AWS template
- Pilot station template
- Radiosonde template
- Pending approvals
- My stations
- View station cluster
- Add program / network affiliation
- Contacts
- Register new contact
- My contacts
- Manage machine access
- Reference data
- Instruments
- Methods
- Variables
- Organizations
- Programs
- Administration
- User management

Register new station

If you would like to register a station with OSCAR please complete the following form. Alternatively, you can register a station by using an existing one as a template, by locating it in "My stations" and selecting the Copy action.

(*) = Mandatory field in OSCAR/Surface to save the station
 (***) = Mandatory field according to the WIGOS Metadata Standard

Station characteristics

3. Basic view Advanced view

4. Name *

Date established *

Date closed:

Station type:

Regional WIGOS Center:

Station class(es):

Declared reporting status:

Assessed reporting status:

Country / territory:

[Add country / territory](#)

5.

Add country / territory ✕

Country / territory:

From:



Registration of a station

2/2

1. Red /blue mandatory elements, based on WMDS
2. Upload of photos, documents, bibliographic references
3. Draft / submitted stations
4. Webservices for automatic calculation of fields

The screenshot shows a registration form with various fields and sections. Red annotations highlight mandatory fields: '1.' is placed next to the 'WMO region' field, and '2.' is placed next to the 'Observations / measurements' section. Blue annotations highlight optional fields: '3.' is placed next to the 'Save as draft' button, and '3.' is also placed next to the 'Add program / network affiliation' button. The form includes fields for Date closed, Station type, Regional WIGOS Center, Station class(es), Declared reporting status, Assessed reporting status, Country / territory, WIGOS Station Identifier(s), Coordinates, WMO region, Time zone, Supervising organization, Climate zone, Predominant surface cover, Topography or bathymetry, and Population in 10km / 50km. There are also sections for Programs / network affiliations and a list of sections to be added: Observations / measurements, Station contacts, Bibliographic references, and Documents. At the bottom right, there are buttons for 'Save as draft', 'Submit', and 'Cancel'.



Registration of a station cluster

- Group together stations with a geographical link (i.e. due to history, part of the same geographical feature, ...)
- Edit /delete by role which created the cluster

Home Search Critical review Management

Note: This is a test environment, use OSCAR for the operational environment.

Stations

Register new station
Generic form
GBON Surface Land Station
SYNOP template
AWS template
Pilot station template
Radiosonde template
Pending approvals
My stations
View station cluster
Add program / network affiliation
Contacts
Register new contact
My contacts
Manage machine access
Reference data
Instruments
Methods
Variables
Organizations
Programs
Administration
User management
Audit logs
Template management
WMDR

Homepage > Management > Stations > View station cluster

Station cluster

[Add station Cluster](#)

Name	Description
Arosa-Davos	
Cebauw	
Davos Integrated CryoNet Cluster	The Davos Cluster stretches from Klosters (1100 m) to the Verstaendlihorn (3298 m asl) and covers ~ 300sqKm, with various micro-climates. Measurements include permafrost temperature, active layer depth, albedo, snow surface temperature, measured over several decades and to continue, long-term measurements of temperature, precipitation and snow (end of the 19th century) in Davos, and the longest series of daily snow measurements at high elevation (Weisstaefjoch Versuchsteifel, 2536 m asl). It encompasses the Silvretta glacier (~ 3000 m asl) with the second-longest mass-balance series worldwide (Huss et al., 2015), a reference glacier of WIGMS, Diachma valley, known for studies on snow hydrology, snow-vegetation interactions (Skilberg) and on accumulation and ablation patterns, lies within the cluster. A weather radar (MeteoSwiss) on Weisstaeflun (2832 m asl) and a planned Swiss Alpine Remote Sensing station (1513 m asl) will allow for new research, monitoring, and calval activities. map: http://bit.ly/tqEg9RZ
Graz Universitat	
Hobart Airport AUS	Observing stations at Hobart Airport
Jungfraujoch	
Nairobi Dagorelli Coner	
Pallas- Sodankyla	
Payenne	
Rothera	Built on a rock promontory at the southern tip of the Wormald Ice Piedmont, Rothera Research Station is situated on Adelaide Island to the west of the Antarctic Peninsula.

10 per page

Home Search Critical review Management

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Stations

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Pending approvals
My stations
View station cluster
Add program / network affiliation
Contacts
Register new contact
My contacts
Manage machine access

Homepage > Management > Stations > View station cluster > Station Cluster

Name*

Description*

Members

[Add station](#)

Save Cancel



Support

- [FAQs](#)
- [Useful links](#)
 - OSCAR/Surface user manual
 - WIGOS learning portal
 - ...
- [Code lists](#)
- To request support or provide feedback:
 - <https://oscar.wmo.int/surface/#/support>
 - <https://oscar.wmo.int/surface/#/feedback>