



OSCAR/Surface and WSI

25-26 January 2024, online



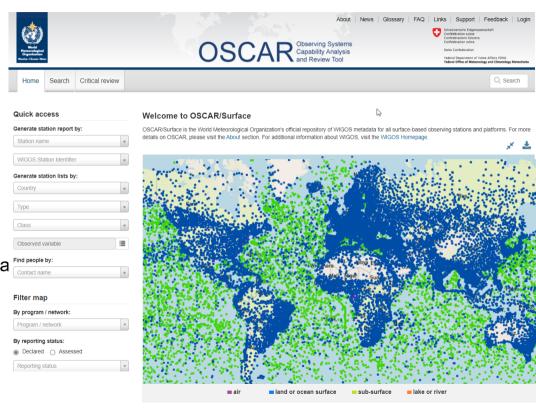
Topics

- OSCAR/Surface: overview
- 2. Management of observing network capabilities
 - Role model
 - Registration and login
 - Search
 - 4. Management of stations and station clusters
- 3. Allocation of WIGOS Station Identifiers (WSIs)



OSCAR/Surface: Overview

- Surface-based Capabilities Tool for the WIGOS components and networks (i.e. GBON, GCW, WHOS, etc)
- Surface-based Capabilities Tool for cosponsored und other networks (GCOS, GOOS, etc.)
- Current as well as historical documentation of stations
- Integration thanks to the WIGOS Metadata Standard (WMDS)
- Developed and operated by MeteoSwiss since 2016
- Version 2 of OSCAR/Surface (OSCAR nextGen) is work in progress

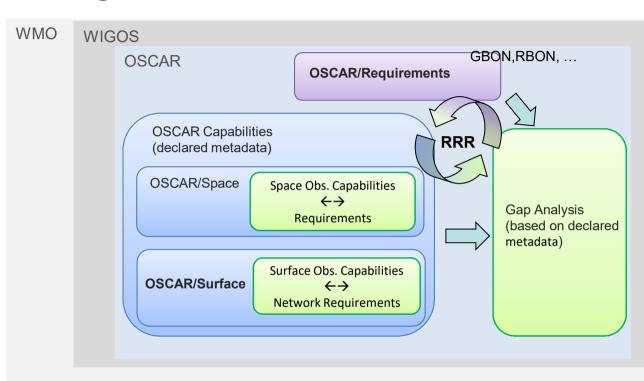




OSCAR/Surface: goals

1/2

- Station Metadata documentation:
 - Data discoverability
 - Better use of data
 - Support National metadata repositories
- Network planning on a global, regional and national level:
 - Identify & close observational gaps (RRR)
 - Efficient use of resources

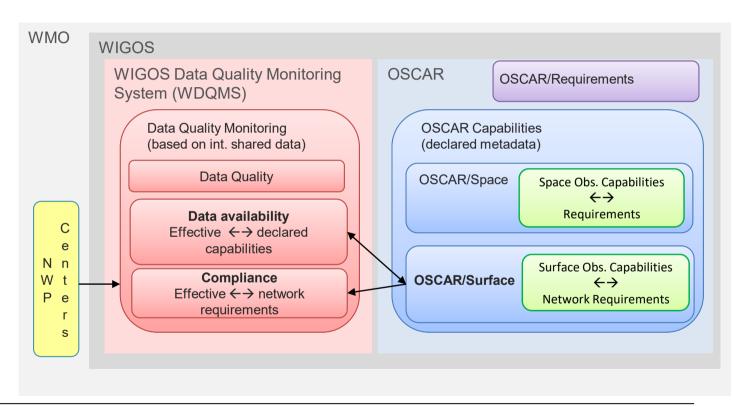




OSCAR/Surface: goals

3. Monitoring:

- Increase quality and availability of exchanged data
- Compliance with WMO requirements (e.g. GBON, SOFF, ..)





Metadata sources

Int. Data Centers *

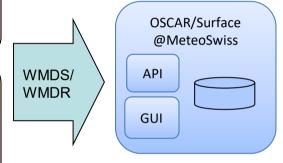
(OceanOps, GAW Data Center, Radar DB, etc.)

National organisations

- NMHSs
- Via NMHS: other national organisations (Research, other Partner institutions, private sector)

WMO Information System*

*integrated or planned for integration



Stations (incl. docs and photos)
Station clusters
Contacts
Instruments
Organisations

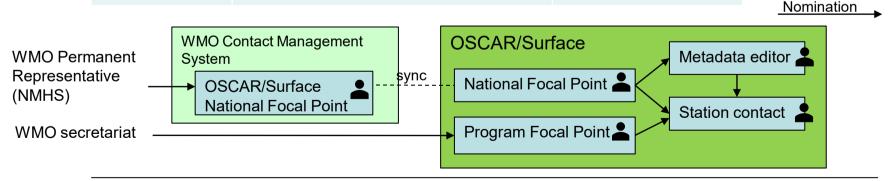




Governance

 WMO members are required to manage their observing network capabilities in OSCAR/Surface

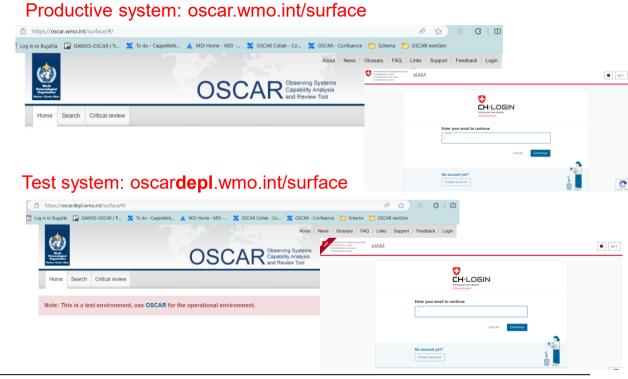
Rights	User Role	Machine user role
By country	National Focal Point, Metadata editor	NMHS
By program	Program Focal Point	Data Center
By station	Station contact	-





Registration and login

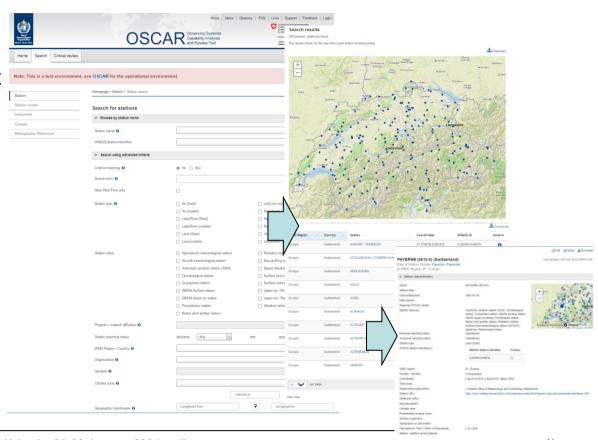
- elAM system for authorisation of users
- Registration:
 - 2-steps workflow:
 - Assignment of role/rights in OSCAR/Surface
 - Self registration (<u>step-by-step registration</u> <u>process</u>)
- Login
- Registration and login are environment-specific





Search

- 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

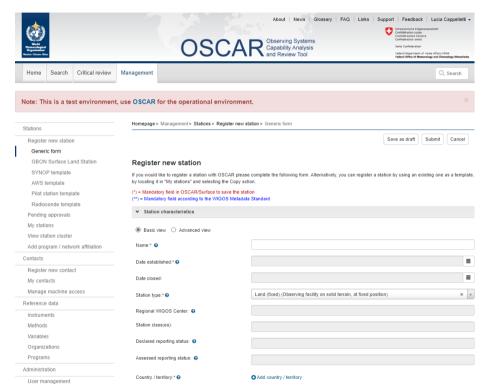




Management of stations

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

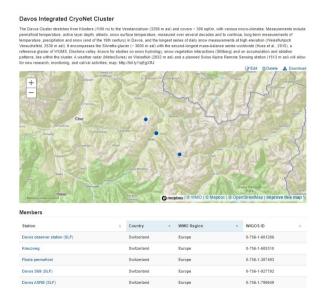
- Batch registration and edit of stations:
 - 1. GUI: Web client
 - Machine to machine: WMDR XML API

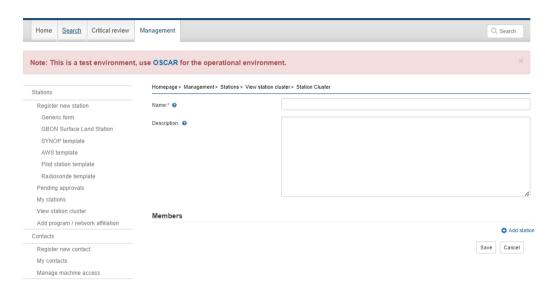




Management of station clusters

- 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







Allocation of WIGOS Station Identifiers

- Unique Identifier of a station in the WIGOS context.
- OSCAR/Surface as the official catalogue of WSI.
- Allocation of more than one possible but not recommended.
- Format: 4 blocks with numbers and characters.

Block (content type)	1st block (number)	2 nd block (number)	4 th block (character)
Description/ Name	WIGOS Identifier Series	Issuer of Identifier	Local Identifier
Features	Allows future expansion	Allows to distinguish between identifiers issued by different organizations	Allocated to station
Range	0	065534	16 characters
Example 1	0	20000	06700
Example 2	0	124	73033

Free* assignment by the country, allows sub-delegation based on i.e. organisation, network, ...



Free assignment by the country

* based on national WIGOS Implementation Plan

ISO Country number, if assigned by the country.

Program-related, if assigned by the WMO secretariat or Program Focal Point.



▼ Next OSCAR/Surface sessions

- OSCAR/Surface demonstration
 - how to use OSCAR/Surface
- Pilot registration of stations
 - hands-on training on the DEPL system: register yourself on the OSCAR/Surface test environment and have one/two examples of stations and observations metadata from your country available.