



GAWSIS

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GAW Strategic Plan: 2008 – 2015 (GAW Report 172)

- (Task 5.2) Extend metadata information within each WDC, and centrally, at GAWSIS – in line with the recommendations of the Inter-Programme Expert Team on Metadata Implementation (IPET-MI).
- (Task 5.6) Implement the WMO core metadata profile in GAWSIS, identify deficiencies and propose necessary extensions.
- (Task 5.8) Further develop and maintain central Internet sites for the GAW Station Information System (GAWSIS) and World Data Centres that provide user friendly access to measurement data, metadata, quality assurance information, relevant meteorological information, and value-added products such as reports on measurement guidelines, quality assurance and technical issues.

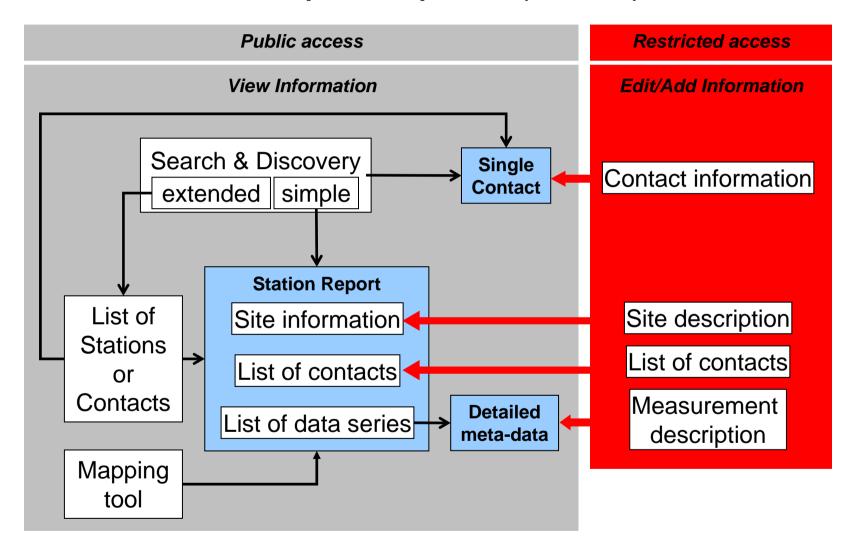
Mandate and Scope of GAWSIS

- To integrate metadata across many variables
- To develop discovery-and-retrieval mechanisms across all variables within GAW
- To develop a 'clearing house' for identification of GAW and other atmospheric monitoring stations
- To provide direct links to data across WDCs (not yet for all)
- To increase the visibility of GAW and partner programmes
- To be a 1-stop shop for information about the ground-based GAW network(s)



GAWSIS 'defines' the GAW ground-based observational network GAWSIS is a precursor for a GAW data portal

GAWSIS: 1-Stop-Shop for (GAW) Metadata



http://gaw.empa.ch/gawsis

Achievements since 2007

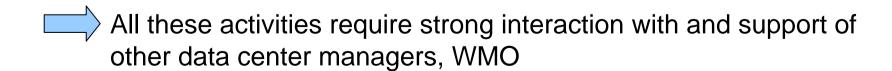
- Metadata flat file mechanism implemented with
 - WDCGG
 - WRDC
 - WDCA (not nearly complete)
- WDC ID system implemented
 - 289 stations have ID assigned (out of 788)
 - 103 sites outside GAW have ID reserved
- Bibliographic referencing system implemented
- Preliminary XML representation of GAWSIS available
 - http://gaw.empa.ch/gawsis/xml
- Migration of system to new server
 - http://gaw.empa.ch/gawsis

Issues

- Automatic metadata intake not operational or not complete for all GAW WDCs
- WDCPC needs to be re-established and mechanisms for metadata exchange be developed
- Manually submitted information in GAWSIS incomplete, partly incorrect
 - Identification of responsible contacts often difficult
 - Users not very responsive to requests
- Users want a working, up-to-date, human- and machine-interactive discovery-and-retrieval system ... but are not willing to invest much

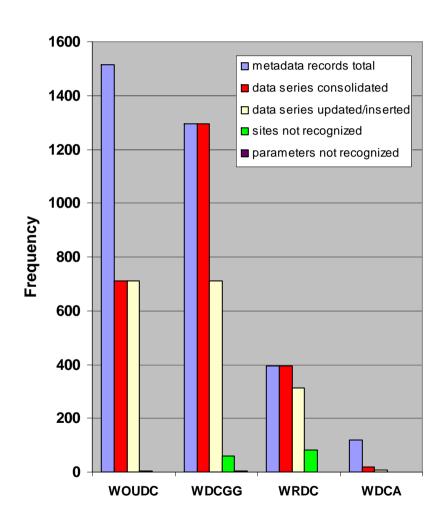
Current plans for the future

- Complete and update information in GAWSIS through 1:1 contact with stations
- Improve and formalize representation of (observational data) QA information in GAWSIS and establish a mechanism for interactive graphical navigation of such information
- Continue with development of ISO-compliant metadata representation of GAWSIS
- Interact with SAG PC to resolve data archiving strategy and integration into GAWSIS
- Interact more strongly with EMEP, NDACC, BSRN, EANET, NADP
- Contribute to and/or lead ET-GAW WDC GAW-GOS pilot project (to be discussed at this meeting)



Status of GAWSIS-WDC Integration

- WOUDC
 - Metadata intake fully operational
- WDCGG
 - Metadata intake operational
 - Some work still needed
- WRDC
 - Status of some sites unclear
 - Data not easily accessible
- WDCA
 - Metadata intake operational
 - very few parameters covered
- WDCPC
 - Not operational
 - Integrate Regional DCs?





GAWSIS: GAWIDs

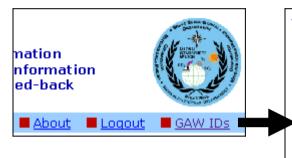


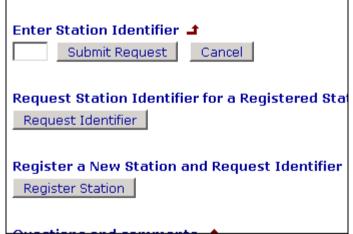
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- 7. Initial assignment of codes
- 8. Tables of used station identifiers

Introduction

This web site is a managed list of unique station identifiers to also serves as the clearing house for registering such identifie ground-based fixed stations. The goal is to assign a unique 3-monitoring purpose. This process should be based on consens because we would like these codes to find acceptance. Your a

Please share this web address with anyone you know

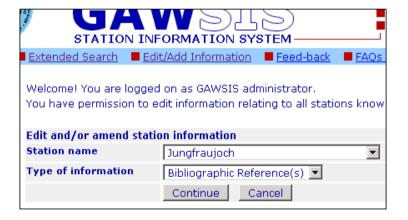


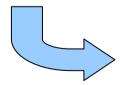


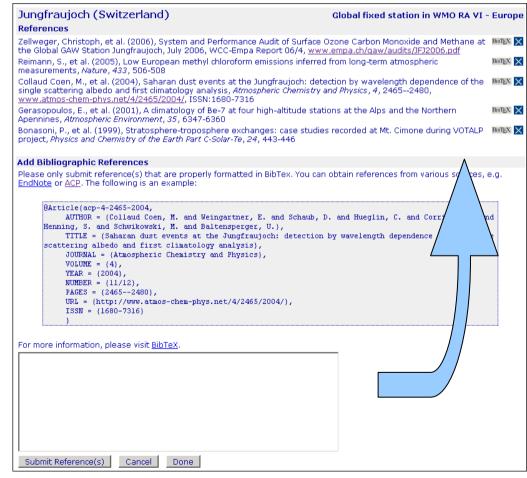
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GAWSIS: Bibliography Database

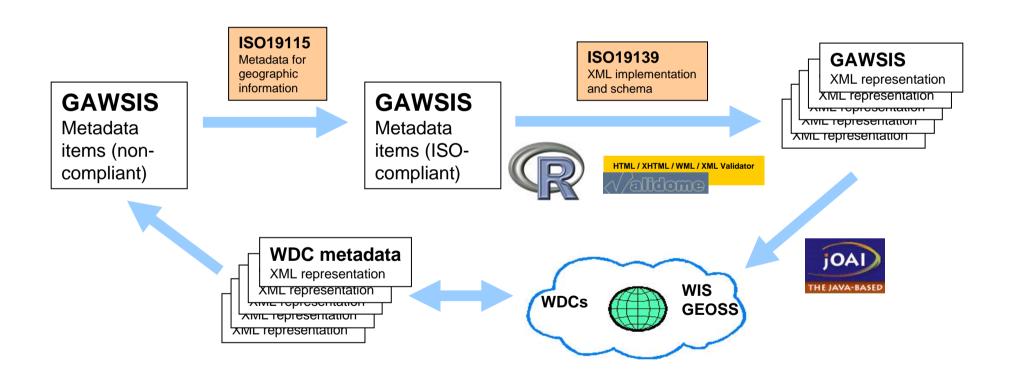
- QA/QC reports
- Scientific publications
- **...**







GAWSIS-WDC Integration



GAWSIS-WDC Integration <<WDC>> ftp put Metadata store ftp get > <<Empa "uranos">> cron Empa "MiniZen" Move, backup **Firewall** <<Empa "hood">> Metadata Login, review, **GAWSIS Publish as ASP** accessible Edit, add metadata **WDC** metadata files as html Metadata Publish as XML accessible backup GAWSIS, as XML cron WDC metadata files cron Identify admin metadata item Metadata item **WDCs** create item **GEOSS** exists in GAWSIS? update item, log file no All metadata items processed? review admin

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joerg.klausen@empa.ch, ET-GAW WDC Meeting, 2-3 October 2008, MGO, St. Petersburg

GAW WDC 'Landscape'

- WOUDC
 - Total/Profile Ozone, UV
- WRDC
 - (Broadband) Solar Radiation
- WDCGG
 - Gases (incl. surface O₃)
- WDCA
 - Aerosols
- WDCPC
 - Precipitation Chemistry
- WDC-RSAT
 - Satellite Remote Sensing

