Schweizerische Eidgenossenschaft
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GAWSIS
Progress Report

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21 January 2014

Meeting of ET-WDC, Tokyo, Japan

Overview

1. Achievements since Geneva 2012 meeting

2. Google Analytics dashboard

3. Challenges and Opprtunities

4. Future

Achievements

since Geneva 2012 meeting

- Enforcement of station registration procedures
  - New stations are accepted only if application approved by WMO; or, if listed in LoA as part of a contributing network
- Mapping of GAWIDs with WMO identifiers
  - 481 stations identified (of a total of 960)
- New contributing networks included
  - ALINE, AD-Net, EANET, EARLINET, IMPROVE, NADP, NOAA-ESRL (CCG)
- Possibilitiy for search and listing of references
- Targeted review of GAWSIS by selected stakeholders
- Comprehensive requirements engineering in preparation of re-factoring
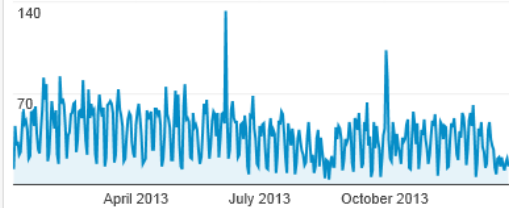- Continuous review of content on an opportunity basis

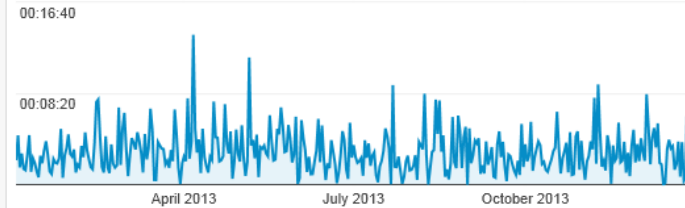# GAWSIS Site Usage

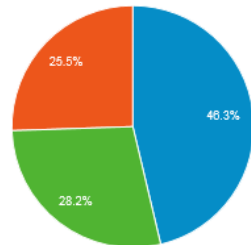gaw.empa.ch/gawsis, Jan 2013 – Dec 2013

Visits

Visits

140

70

April 2013   July 2013   October 2013

Avg. Visit Duration

Avg. Visit Duration

00:16:40

00:08:20

April 2013   July 2013   October 2013

Visits by Traffic Type

organic   referral   direct

25.5%   46.3%   28.2%

Visits and Avg. Visit Duration by Country/Territory

Country / Territory	Visits	Avg. Visit Duration
United States	1,672	00:01:55
Switzerland	1,566	00:06:08
Japan	1,165	00:02:02
Germany	972	00:03:42
Canada	655	00:01:51
United Kingdom	619	00:03:20
France	503	00:02:36
Spain	451	00:02:20
Greece	451	00:01:58
Italy	402	00:03:34

Visits and Pageviews by Mobile

Mobile (Including Tablet)	Visits	Pageviews
No	13,357	49,825
Yes	520	789

GAWSIS site usage statistics

gaw.empa.ch/gawsis, Jan 2013 – Dec 2013

Visits and Avg. Visit Duration by Country/Territory

1   1,672
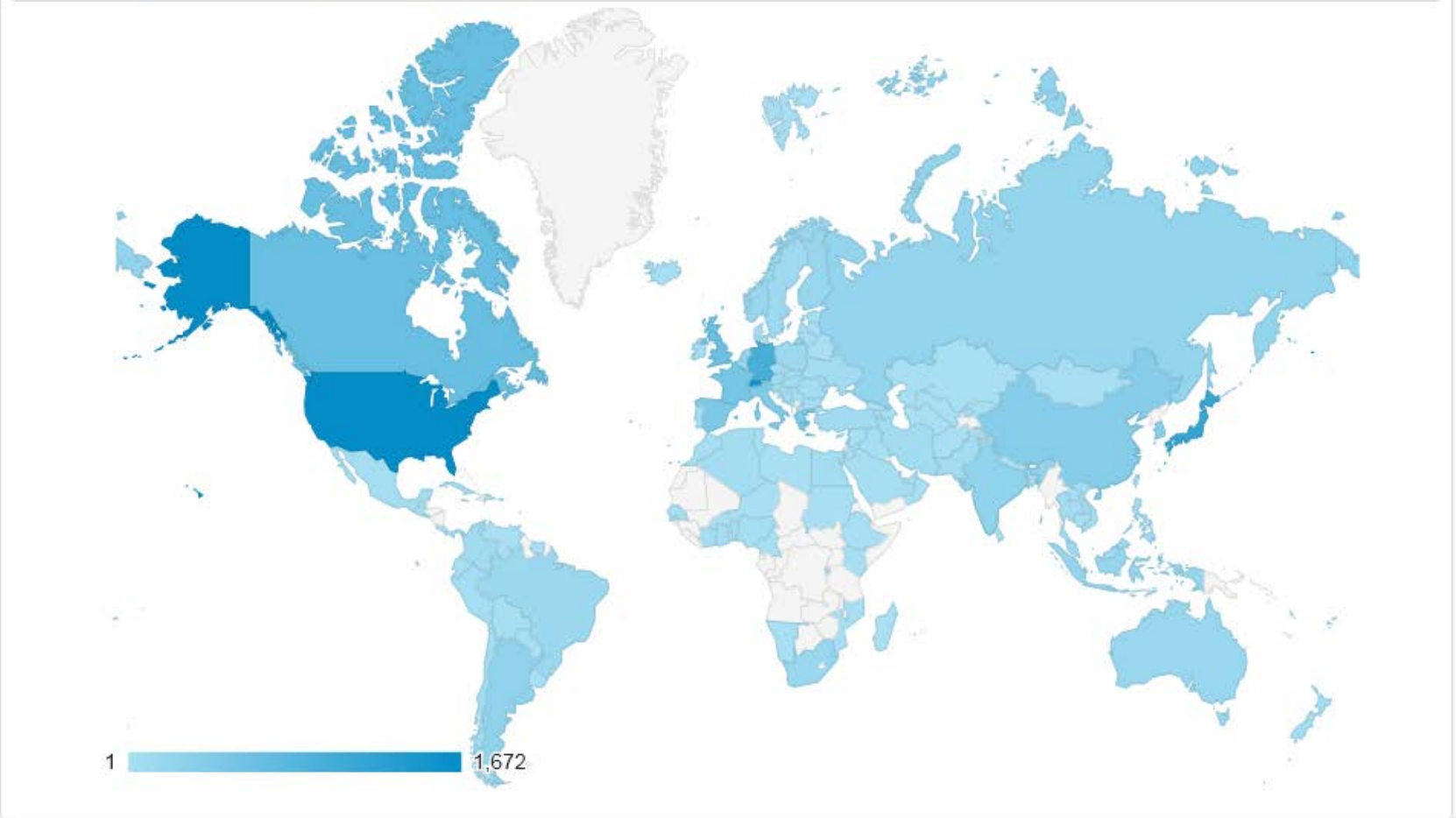
Challenges

- Important networks not formally engaged in GAW

  - AERONET, SKYNET, NADP (coming?), IAGOS, DEBITS, …

- Metadata exchange and mapping

  - Controlled list of variables
    → What should be considered by GAWSIS?

  - Metadata exchange standard
    → uncontrolled vocabularies at WDC

  - Include more networks in automatic metadata intake
    → TCCON, GALION, BSRN, …

- Migration of GAWSIS to MeteoSwiss

  - New database infrastructure

  - New web platform

  - New ICT constraints on collaboration with partners outside MeteoSwiss

Opportunities

- Expansion, re-design of database model
  - Improve granularity (station vs. Platform, data series vs. data set)
  - Improve history of changes to stations
- More comprehensive integration of metadata from diverse sources
- Value-added products useful for network development
  - More, better maps
  - Graphs, charts
- Develop „GAW performance monitoring"
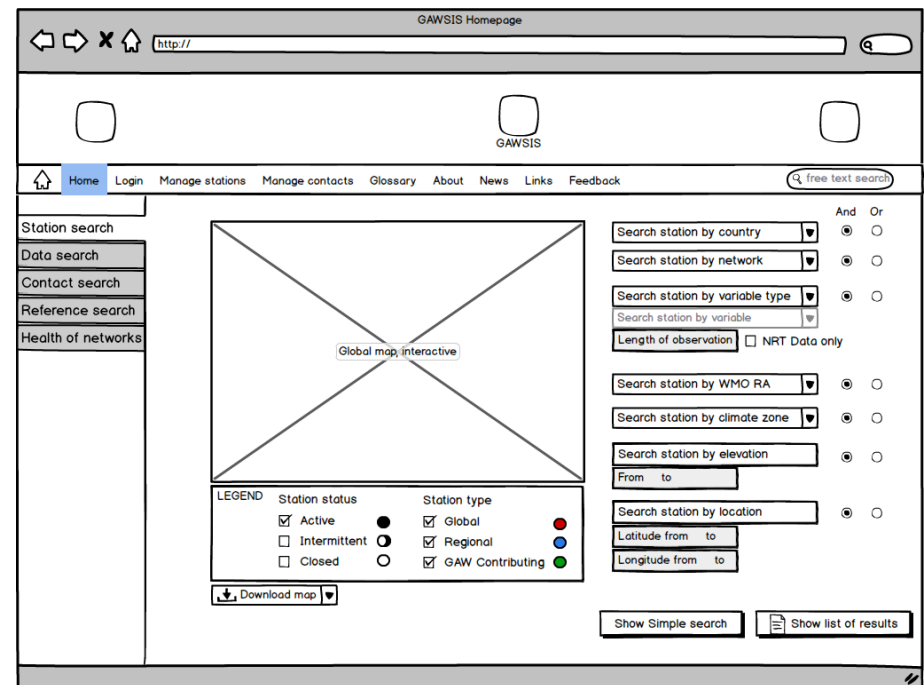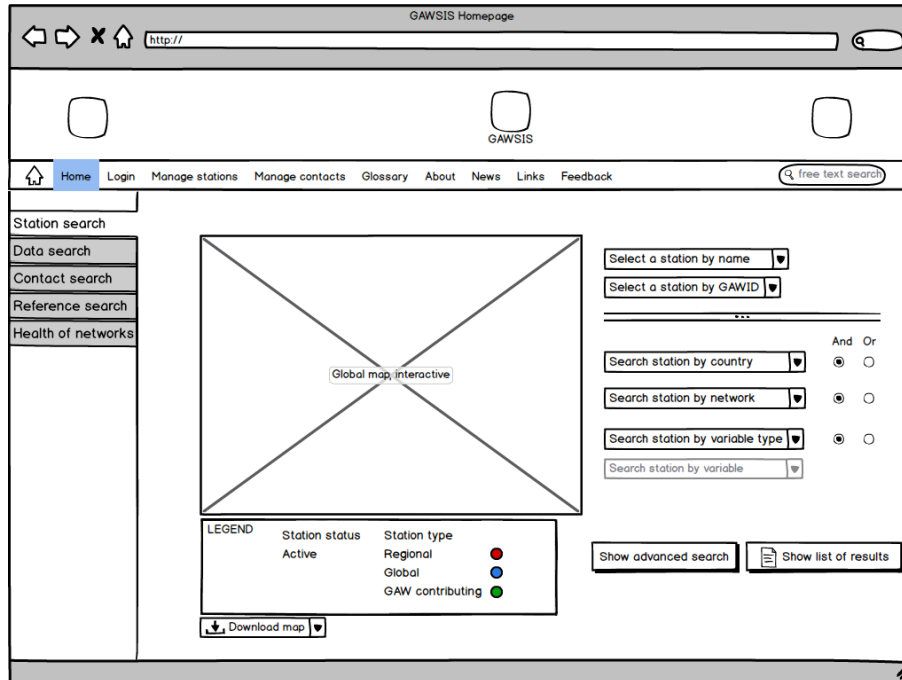- Modern web technologies, operational support
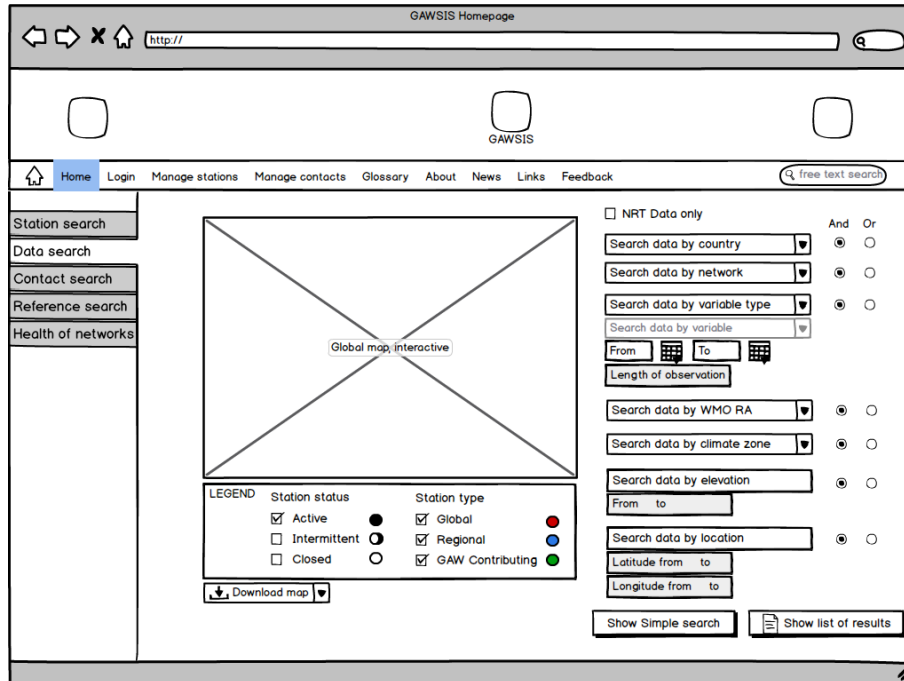
GAWSIS

New Look and Feel, Improved Services
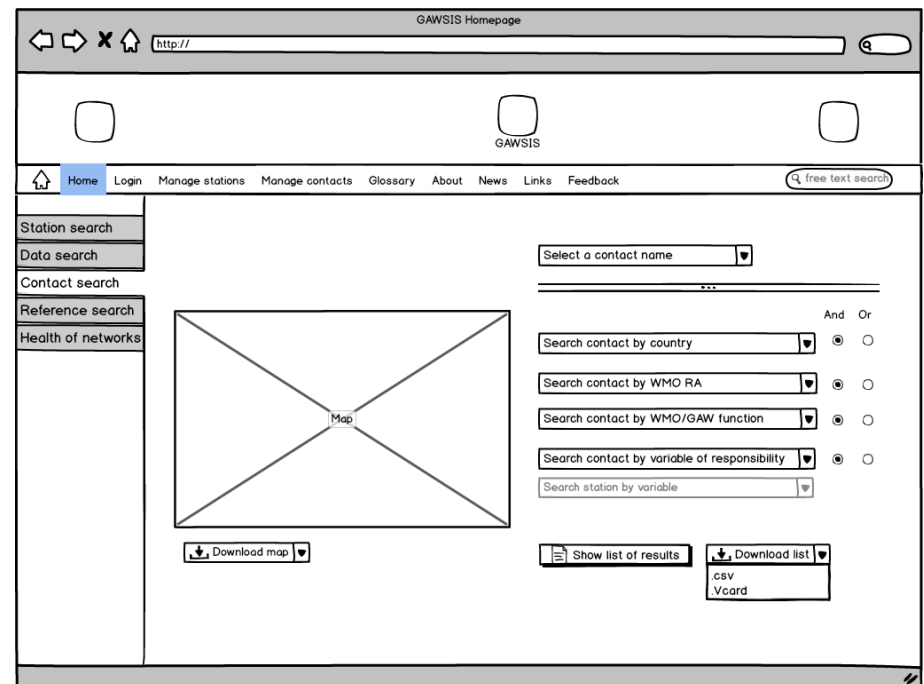

- Simplified navigation
- Faster maps

new

GAWSIS

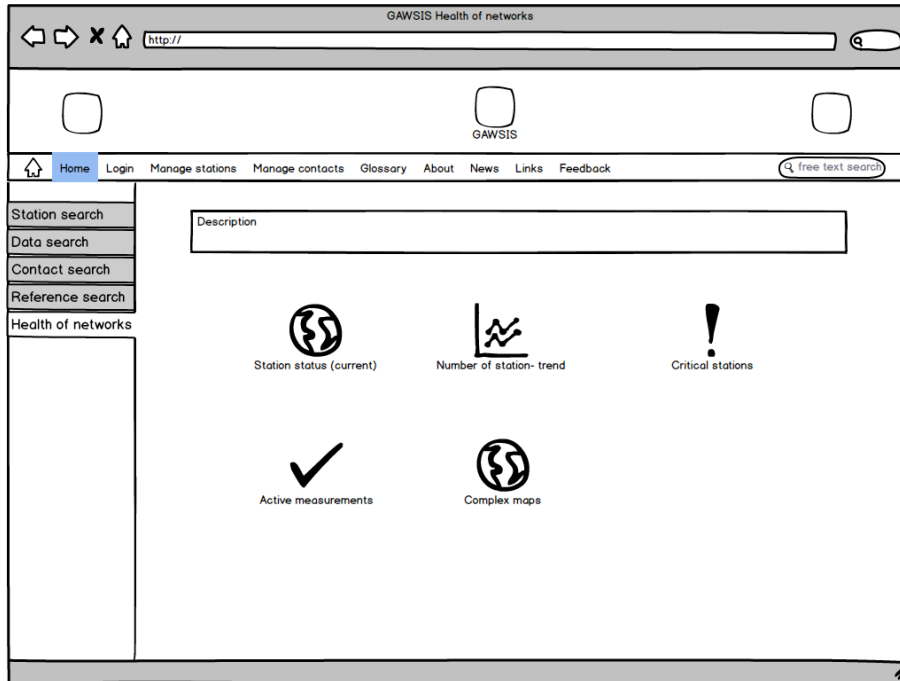## New Look and Feel, Improved Services

new • Directly search for data (not stations)
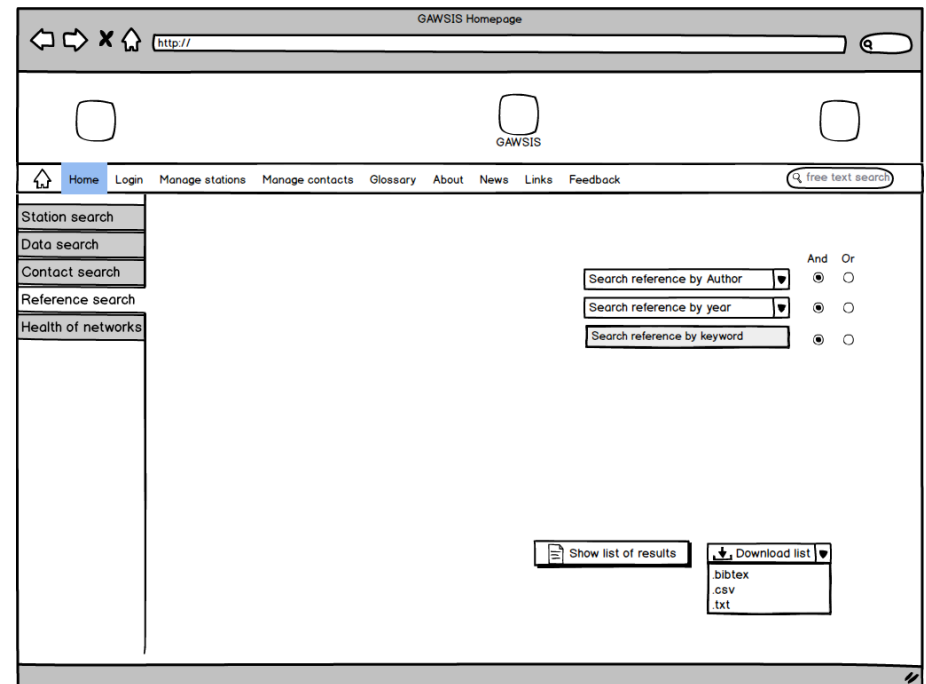
GAWSIS
New Look and Feel, Improved Services

new

- Various indicators on network performance and health-of-networks
- Direct search of references available

"Health-of-Networks" Indicators

- Maps of stations by length-of-record, submission delay for individual variables
- Spatial density of currently active stations, by WMO RA
- Station activity status, by variable (group)
- Trends of stations submitting by variable (group)
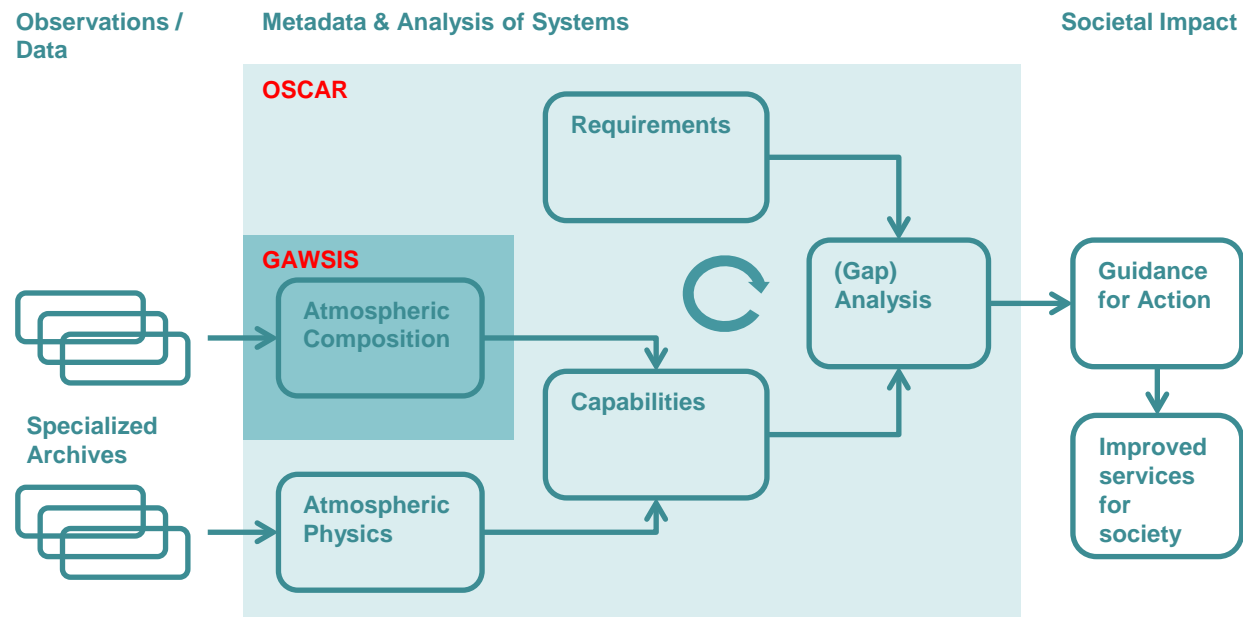- Maps showing critical stations

GAWSIS-OSCAR

Metadata archives & Tools for Rolling Review of Requirements

- WMO has asked MeteoSwiss to operate GAWSIS-OSCAR
  → GAWSIS will provide GAW capabilities for OSCAR

GAWSIS-OSCAR
Time-line