

EUMETNET Observations Programme

**Actions of the
First Monitoring Workshop
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For submission to: *Participants of the First Monitoring Workshop*

Summary: *Actions agreed at the Meeting*

Action required: *Review*

Distribution: *Restricted*

Reference	Date	Author(s)	Content
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At the first Monitoring Workshop relevant observation monitoring tools, procedures and aspects have been discussed and identified. The diagram drafted during the workshop regarding relevant monitoring tools and procedures is copied into the annex. Basing on this discussion the following actions have been agreed at the end of the meeting:

Action MWS.2013.01: ECMWF Observation Monitoring Alarm System

The following NMHSs and Programmes are willing to test the Alarm System developed by ECMWF for anomaly detection: UKMO, Meteo France and EUMETNET Observations Programme Management Team (Obs PMT). The E-AMDAR Operational Service Manager (OSM) is interested in receiving alarms regarding AMDAR aircraft. WMO Lead Centres might also be interested in using the system.

Test users have to be aware that the system is still in non-operational mode. Alarms might be caused by observations or by ECMWF model errors. Test users are kindly asked to inform ECMWF if an alerted observation error cannot be verified by using other tools and feedback on threshold settings are welcomed. It is planned to put first alarms on ECMWF's website in October 2013.

Associated relevant monitoring tools, procedures and aspects:

Automation of fault reporting

Access to data quality information/ Frequency of reporting

Setting of thresholds (tuning)

Action MWS.2013.02: (Single) Global Lead Centre

WMO/CBS via ET-SBO to investigate the establishment of a (single) Lead Centre for monitoring of surface-based observing systems. This requires specification and definition of the role of a Global Lead Centre as well as the minimum skill-set of such a Lead Centre. The ECMWF alarm system for observation monitoring might be used as an interface by the (Global) Lead Centre(s) to identify observation errors.

Associated relevant monitoring tools, procedures and aspects:

Lead Centres/ Monitoring Centres

Governance

Automatisation of fault reporting

Setting of thresholds (tuning)

Which data characteristics should be monitored?

Action MWS.2013.03: Reporting of overall system performance

During the discussion on the monitoring tools it was highlighted that an ongoing problem for monitoring centres is not having all observations available in their databases. The reporting of overall system performance might help to identify whether all monitoring centres receive the same number of observations and stations.

The EUMETNET Obs PMT will start to develop an overall system performance map on European level as a first step. Initially the Obs PMT will discuss and agree with ECMWF and other European NWP centres on the input format and the design – what shall be displayed.

The map shall display observations receptions of the different NWP centres provided as daily ASCII files. In a next step a global overall system performance could be generated.

As DWD Offenbach, UKMO Exeter and ECMWF Reading are WMO Monitoring Lead Centres, at least these 3 NMHSs shall provide reception logs for the overall system performance map.

Associated relevant monitoring tools, procedures and aspects:

Reporting of overall system performance

Exchange of feedback files

Action MWS.2013.04: Single point for station/fault information

WMO Secretariat and ET-SBO will set up a data monitoring page for GOS on the WIGOS Information Resource (WIR) providing links to different monitoring tools or webpages on a global scale. Further all quality monitoring reports of the Lead Centres shall be available on this WIR website. Furthermore, WMO Secretariat and ET-SBO to investigate the establishment of online forums and email lists on quality monitoring issues for different observation types (as already done for AMDAR observations) until next CBS meeting in 2016.

Additionally the information in WMO Volume A will be updated at least as long as this document is still valid and is not replaced by a new tool or document.

Associated relevant monitoring tools and procedures:

Governance

Metadata

Access to data quality information/Frequency of reporting

Which data characteristics should be monitored?

Exchange of feedback files

No actions have been agreed on the following monitoring aspects:

- Storing back monitoring information into Obs databases
- Monitoring workshops

A Second Monitoring Workshop will be scheduled back to back with the next Obs-SET meeting in March or April 2014.

