

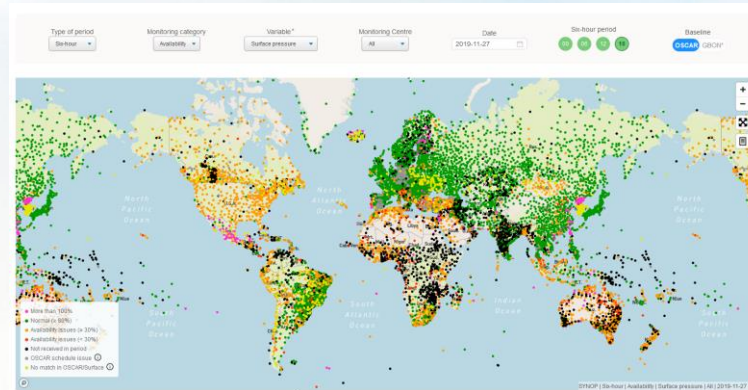
WIGOS Data Quality Monitoring System (WDQMS)

How to provide quality performance reports



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Quality performance reports

- RWCs should provide monthly quality performance reports to the WDQMS NFPs of the corresponding RA or subregion by email and should also make them available online.
- Future WDQMS monthly performance reports will supersede the current lead centre reports.
- Monthly reports should be generated automatically by the **WDQMS web tool** (providing quality performance summaries country and station) and the **incident management ticket system tool** (providing summaries about the incident management tickets raised, closed, in progress).
- Semester performance reports could include more detailed results than monthly performance reports.



Content of the quality performance reports

- The reports should describe the monthly station performances compared to WDAQMS performance targets and should contain:
 - Total number of raised incident tickets within the evaluated period (for example, per month) and per country.
 - Total number of observations per station received in the month compared to the total number expected, according to the schedule on international exchange as declared in OSCAR/Surface.
 - Furthermore, the overall network performance for data availability should be provided on a monthly basis.
 - Monthly average timeliness (delay between nominal observation time and reception time at a WIGOS Monitoring Centre's database) per station as well as the number of reports that have been received with a significant delay according to the targets.
 - Furthermore, the overall network performance for timeliness will be provided on a monthly basis.



Content of the WDQMS quality performance reports (cont.)

- Quality performance reports should further contain performance figures on accuracy:
 - Monthly arithmetic averages of daily pressure, temperature, wind and relative humidity, root mean squares of differences from O-B NWP comparison results for each station
 - Monthly percentages of gross errors compared to the total number of all single observations for each variable and station.
 - Furthermore, the overall network performance for data accuracy should be provided on a monthly basis.
- Sorted station performances by listing station, with suspect records first, followed by stations with non-suspect records, grouped by country and network.
- The content of the quality performance reports might evolve after feedback from Members using the reports.



Thank you

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<https://community.wmo.int/activity-areas/wigos>



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