

ANNEX 2. PRIORITY LEVELS OF ISSUES

1. Surface land stations

The issues described in Table 1 shall be identified in most daily monitoring reports of the different WMO Integrated Global Observing System (WIGOS) Monitoring Centres, not in the daily monitoring reports of one particular WIGOS Monitoring Centre only.

Table 1. Issues with surface land stations

| <i>Category</i> | <i>Description</i> | <i>Level of priority</i> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Data availability (issues/incidents might be identified in Traditional Alphanumeric Code (TAC) and/or Binary Universal Form for the Representation of meteorological data (BUFR) data) | One station showed data outages occasionally | Low |
| | Several/all stations of one National Meteorological and Hydrological Service (NMHS)/country showed data outages occasionally since 5 d ago | Medium |
| | One station did not provide any data since 5 d ago | High |
| | Several/all stations of one NMHS/country did not provide any data since 5 d ago | Very high |
| Timeliness (SYNOP data should be available for users within 50 min after the nominal observation time) | Data of one station seemed to arrive delayed (later than 100 min) occasionally since 5 d ago | Low |
| | Data of several/all stations of one NMHS/country seemed to arrive delayed (later than 100 min) occasionally since 5 d ago | Medium |
| | All data of one station seemed to arrive delayed (later than 100 min) since 5 d ago | High |
| | All data of several/all stations of one NMHS/country seemed to arrive delayed (later than 100 min) since 5 d ago | Very high |
| Accuracy/ measurement uncertainty (issues/ incidents might be identified for several parameters, for example pressure, temperature, wind and humidity) | Daily averages of quantitative measures of performance characteristics (based on observation minus background (O-B) results from numerical weather prediction (NWP)) of one station exceeded the target occasionally since 5 d ago (regarding bias [trueness], standard deviation [precision] or number of gross errors) | Low |
| | Daily averages of quantitative measures of performance characteristics (based on NWP O-B results) of several/all stations of one NMHS/country exceeded the target occasionally since 5 d ago (regarding bias [trueness], standard deviation [precision] or number of gross errors) | Medium |
| | All daily averages of quantitative measures of performance characteristics (based on NWP O-B results) of one station exceeded the target since 5 d ago (regarding bias [trueness], standard deviation [precision] or number of gross errors) | High |
| | All daily averages of quantitative measures of performance characteristics (based on NWP O-B results) of several/all stations of one NMHS/country exceeded the target since 5 d ago (regarding bias [trueness], standard deviation [precision] or number of gross errors) | Very high |
| Quality (issues/ incidents might be identified concerning suspicious values in reports, for example negative temperatures or snow during the summer) | One station showed suspicious values in reports occasionally in the last 5 d | Low |
| | Several/all stations of one NMHS/country showed suspicious values in reports occasionally in the last 5 d | Medium |
| | All data of one station showed suspicious values in reports over several days (in the last 5 d) | High |
| | All data of several/all stations of one NMHS/country showed suspicious values in reports over several days (in the last 5 d) | Very high |