



WMO OMM

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

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Annexes: 2 (disponibles en anglais seulement)

Objet: Stations d'observation centenaires de l'OMM

Suite à donner: Communiquer dans les plus brefs délais, au plus tard le **15 février 2021**, les informations demandées pour un maximum de cinq stations d'observation (centenaires) dont les relevés portent sur de longues périodes, en vue d'une reconnaissance officielle par l'OMM

Madame, Monsieur,

Je souhaiterais attirer votre attention sur la [résolution 7 \(EC-72\)](#) – Amélioration du mécanisme d'identification des stations d'observation dont les relevés portent sur de longues périodes, qui vise à souligner l'importance que revêtent de telles stations et à améliorer la mise à disposition de leurs métadonnées et données d'observation. À ce jour, 234 stations centenaires ont été reconnues comme telles par l'Organisation météorologique mondiale (OMM), qui se répartissent dans les six Régions de l'OMM et en Antarctique. Un certain nombre de célébrations et d'activités faisant intervenir les médias ont été organisées avec succès par les Membres à l'échelle locale ou nationale pour favoriser le maintien en exploitation des stations d'observation centenaires en mettant en avant leur contribution à la science et leur appartenance au patrimoine sociétal. L'OMM est déterminée à continuer sur cette voie et étudie les moyens d'étendre ce statut de station centenaire à d'importants sites d'observation hydrologique, océanique et géophysique.

Toutes les informations relatives au mécanisme de reconnaissance officielle par l'OMM des stations d'observation dont les relevés portent sur de longues périodes, y compris la liste des stations retenues et des stations candidates et les critères d'octroi du statut, sont disponibles sur le [site Web](#).

Par la présente, je vous invite donc à contribuer à cette entreprise majeure en communiquant les informations demandées pour un maximum de cinq (autres) stations d'observation de votre pays ou territoire dont les relevés portent sur de longues périodes (stations candidates) et qui doivent satisfaire aux critères renforcés énoncés dans l'[annexe I](#). Cela concerne les stations (y compris aérologiques) qui relèvent du Service météorologique et hydrologique national (SMHN) ou d'autres exploitants.

Le conseil consultatif chargé de recenser les stations d'observation dont les relevés portent sur de longues périodes analysera les informations communiquées et adressera des recommandations au Conseil exécutif en avril 2021, à l'occasion de sa soixante-treizième session. L'OMM publiera sur son site Web et délivrera par courriel des certificats et un modèle normalisé de plaque en métal ou en cuivre (à faire fabriquer par le Membre s'il le souhaite) pour chaque station retenue.

Aux: Représentants permanents des Membres de l'OMM

cc: Conseillers en hydrologie

Nous vous saurions gré de nous communiquer vos informations avant le **15 février 2021** en remplissant un exemplaire du formulaire type actualisé par station d'observation (voir l'[annexe 2](#); un fichier WORD peut être téléchargé sur le [site Web](#) susmentionné*).

Je vous saurais gré d'écrire à MM. Omar Baddour, Chef de la Division des services de surveillance du climat et des politiques climatiques, et Peer Hechler, fonctionnaire scientifique de cette même division, à l'adresse wcdmp@wmo.int pour de plus amples informations.

Veuillez agréer, Madame, Monsieur, l'expression de ma considération distinguée.



Elena Manaenkova
pour le Secrétaire général

* Cliquer sur «WMO Recognition mechanism» (mécanisme de reconnaissance par l'OMM), puis sur «Self-assessment template for nomination of candidate stations» (formulaire d'auto-évaluation des stations candidates)

UPGRADED CRITERIA FOR WMO RECOGNITION OF CENTENNIAL OBSERVING STATIONS

Note: EC-72, in September 2020, endorsed upgraded recognition criteria, which aim at strengthening the provision of station metadata and observational data of WMO Centennial Observing Stations (Resolution 7 (EC-72)). The upgraded recognition criteria are provided below (modifications highlighted in bold and/or strikethrough) and are reflected in the updated self-assessment template (Annex 2).

An additional note has been added to the introductory notes on the self-assessment template: Station operators shall assign a WIGOS Station Identifier to all nominated stations and populate OSCAR (<http://oscar.wmo.int>) with the minimum station metadata according to criterion 3 below.

Mandatory criteria

- (1) The observing station was founded at least 100 years ago, observing at least one meteorological element since then, and is in operation as an observing station at the date of nomination.
- (2) Periods of inactivity of the observing station shall not exceed 10%.
- (3) The minimum historic station metadata for the full duration of station operation shall contain actual or derived geographical coordinates including elevation, known changes of station name and/or station identifier, identified meteorological element(s) and its unit(s) as well as the observing schedule(s).
- (4) Any known observing station relocation or change in the measurement technique have not significantly affected the climatological time-series data. *Note: Documented data homogenization for the observing station is considered compliant with criterion 4.*
- (5) All historic observational data and metadata have been digitally archived or will be rescued. Members ~~are requested to~~ **shall** share their plans for data rescue, if applicable.
- (6) The observing station shall be operated according to WMO observing standards according to the Manual on the WMO Integrated Global Observing System (WMO-No. 1160) and the Guide to Instruments and Methods of Observation (WMO-No. 8). *Note: Explanatory information ~~should~~ **shall** be provided for those stations that do not meet current WMO observing standards.*
- (7) The current environment of the observing station has been classified or will be classified according to the siting classification defined in the Guide to Instruments and Methods of Observation (WMO No. 8). Members ~~are requested to~~ **shall** share **(i) the results of metadata attached to the siting classification in the appropriate WMO metadata repository (currently OSCAR) or (ii) their plans to classify the observing station, if applicable** for the nomination process and any future re-nomination.
- (8) The observed and measured data shall be subject to routine quality control procedures according to current WMO guidelines and practices. The quality control processes as well as its results shall be well documented. **Note: A brief description of the routine quality procedures at the observing station shall be included in the References/Remarks column.**
- (9) Members shall do their utmost to maintain nominated stations according to the above recognition criteria.

(10) Historic observation data and metadata have been made available for scientific research, consistent with [Resolution 40 \(Cg-XII\)](#) - WMO Policy and Practice for the Exchange of Meteorological and Related Data and Products Including Guidelines on Relationships in Commercial Meteorological Activities, and [Resolution 60 \(Cg-17\)](#) - WMO Policy for the International Exchange of Climate Data and Products to Support the Implementation of the Global Framework for Climate Services, or will be made available. Members shall share their plans for data availability, if applicable.

~~Desirable criteria:~~

~~(a) Free and unrestricted data access [definition cf. Resolution 40 (Cg-XII)], should be granted to the data including respective metadata.~~

~~(b) Observing station time series data should be subject to quality control.~~

~~(c) Observing station time series should be subject to homogeneity testing and homogenization, if applicable. *Note: Important for any centennial observing station is that the distribution of its observed data allows testing homogeneity and that possible breaks in the series are distributed in a way that the time series can be homogenized. A sufficient number of neighboring stations will facilitate the homogenization procedure. It is fundamental to preserve the original data before any further treatment. In case of homogenization the original as well as the homogenized series shall be stored.*~~

WMO CANDIDATE CENTENNIAL OBSERVING STATION SELF-ASSESSMENT TEMPLATE

Important notes:

- Please send the filled-in template (one template for one observing station) to wcdmp@wmo.int
- Station operators are encouraged to provide sufficient information in the 'References/Remarks' column to facilitate the assessment by the Advisory Board. Station operators are encouraged to attach additional documentation and photos to be made available publicly, however, this additional information is not core to the assessment.
- Information in the self-assessment template MUST BE TYPED (handwritten information cannot be processed). A WORD version of the template can be downloaded from <https://public.wmo.int/en/our-mandate/what-we-do/observations/centennial-observing-stations> -> WMO Recognition Mechanism -> WMO letters inviting nomination
- Station operators are invited to consider filling the template in English in order to accelerate the recognition assessment.
- The correctness of the information provided in the template is the responsibility of the station/network operator. The Advisory Board performs its assessment based on the completed template considering additional global information. The information provided by the station operator in the template will be made available publicly for user review.
- Station operators shall assign a WIGOS Station Identifier to all nominated stations and populate OSCAR (<http://oscar.wmo.int>) with the minimum station metadata according to criterion 3 below.

Current station information

Station name		
Start of observations (year)		
WIGOS Station Identifier and other current station identifiers, where available		
Station latitude and longitude ¹		
Station elevation ¹ (meter above MSL)		
Country/Place		
WMO Region		
Institution		
Name of contact person		Email address

¹ Cf. *Guide to Instruments and Methods of Observation* (WMO-No. 8) – *Coordinates of the station*

Mandatory criteria

Criteria	Compliance (Yes/No)	References / Remark
(1) The observing station was founded at least 100 years ago, observing at least one meteorological element since then and is in operation as an observing station at the date of nomination.		
(2) Periods of inactivity of the observing station shall not exceed 10 %.		
(3) The minimum historic station metadata for the full duration of station operation shall contain actual or derived geographical coordinates including elevation, known changes of station name and/or station identifier, identified meteorological element(s) and its unit(s) as well as the observing schedule(s).		
(4) Any known observing station relocation or change in the measurement technique have not significantly affected the climatological time-series data. <i>Note: Documented data homogenization for the observing station is considered compliant with criterion 4.</i>		
(5) All historic observational data and metadata have been digitally archived or will be rescued. Members shall share their plans for data rescue, if applicable.		
(6) The observing station shall be operated according to WMO observing standards according to the <i>Manual on the WMO Integrated Global Observing System</i> (WMO-No. 1160) and the <i>Guide to Instruments and Methods of Observation</i> (WMO-No. 8). <i>Note: Explanatory information SHALL be provided for those stations that do not meet current WMO observing standards.</i>		
(7) The current environment of the observing station has been classified or will be classified according to the siting classification defined in the <i>Guide to Instruments and Methods of Observation</i> (WMO-No. 8). Members shall share (i) the metadata attached to the siting classification in the appropriate WMO metadata repository (currently <i>oscar</i>) or (ii) their plans to classify the observing station, if applicable.		

Criteria	Compliance (Yes/No)	References / Remark
<p>(8) The observed and measured data shall be subject to routine quality control procedures according to current WMO guidelines and practices. The quality control processes as well as its results shall be well documented.</p> <p><i>Note: A brief description of the routine quality procedures at the observing station shall be included in the references/remarks column</i></p>		
<p>(9) Members shall do their utmost to maintain nominated stations according to the above recognition criteria.</p>		
<p>(10) Historic observation data and metadata have been made available for scientific research, consistent with resolutions 40 and 60², or will be made available. members shall share their plans for data availability, if applicable.</p>		

² Resolution 40 (Cg-XII) – WMO Policy and Practice for the Exchange of Meteorological and Related Data and Products Including Guidelines on Relationships in Commercial Meteorological Activities;
Resolution 60 (Cg-17) – WMO Policy for the International Exchange of Climate Data and Products to Support the Implementation of the GFCS