

**WMO OMM**

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

Secrétariat

7 bis, avenue de la Paix – Case postale 2300
CH 1211 Genève 2 – Suisse
Tél.: +41 (0) 22 730 81 11
Fax: +41 (0) 22 730 81 81
wmo@wmo.int – public.wmo.int

Ref.: 08314/2022-15 SI/ACS

Notre réf.: 08314/2022/S/CS/CMP

19 avril 2022

Annexe: 1 (disponible en anglais seulement)

Objet: Rapport décennal sur le climat 2011-2020

Suite à donner: Contribuer au rapport, fournir des informations climatologiques et désigner un/une responsable **au plus tard le 29 avril 2022**

Madame, Monsieur,

Comme vous le savez peut-être, l'Organisation météorologique mondiale (OMM), en collaboration avec les Membres et la Commission des services et applications se rapportant au temps, au climat, à l'eau et à l'environnement (SERCOM), s'emploie à fournir des informations faisant autorité sur l'état du climat mondial et régional à l'échelle annuelle et pluriannuelle.

J'ai le plaisir de vous informer que, suite au succès de la publication du premier rapport décennal sur le climat intitulé «*Le climat dans le monde 2001-2010: une décennie d'extrêmes climatiques – rapport de synthèse*» (OMM-N° 1119), auquel plus de 120 Membres ont contribué, la publication du deuxième rapport de ce type, qui couvrira la période 2011-2020, est prévue pour 2023 afin de coïncider avec le bilan mondial de la Convention-cadre des Nations Unies sur les changements climatiques (CCNUCC). Le rapport fournira des informations sur les indicateurs climatiques clés et les impacts climatiques ayant des conséquences sur le développement durable. Vous trouverez en annexe la note de synthèse relative au second rapport et la méthodologie connexe.

Dans ce contexte, nous vous invitons à contribuer à cet important rapport en demandant à votre organisme de fournir des informations climatologiques telles que décrites dans l'enquête en ligne (https://analytics-eu.clickdimensions.com/cn/accqt/decadal_survey) et de nommer un responsable qui sera l'interlocuteur du Secrétariat de l'OMM. Je vous serais reconnaissant de bien vouloir remplir l'enquête en ligne **au plus tard le 29 avril 2022**.

Le coordonnateur désigné par l'OMM pour ce rapport est M. Omar Baddour (obaddour@wmo.int), avec l'assistance de Mme Claire Ransom. Si vous avez des questions ou si vous avez besoin d'aide pour remplir l'enquête, veuillez prendre contact avec Mme Ransom à l'adresse cransom@wmo.int.

Je saisis cette occasion pour vous remercier de votre collaboration dans le cadre des activités relatives au climat et de votre contribution à cette initiative.

En vous remerciant du soutien que vous apportez à l'OMM et à ses activités, je vous prie d'agréer, Madame, Monsieur, l'expression de ma considération distinguée.

Petteri Taalas
Secrétaire général

Aux: Représentants permanents des Membres de l'OMM

cc: Conseillers en hydrologie
Président de la SERCOM
Président de l'INFCOM
Présidents des conseils régionaux



Decadal Report 2011-2020

CONCEPT & METHODOLOGY



Background

- **The first decadal report** was published in 2013. ([WMO-No.1103](#)). It covered 2001-2010 decade. It was published and launched at the occasion of the first Intergovernmental Board of Climate Services (IBCS), held at the Palais des Nations, Geneva in July 2013.
- **The decadal report for the period 2011-2020**, the second of its kind, is planned to be published in 2023, coinciding with the UNFCCC global stock-take, with focus on climate and Sustainable Development.
- **The SERCOM workplan includes the decadal report 2011-2020** as one of the deliverables of the Standing Committee on Climate Services (Annex to Resolution 3 (SERCOM-1), abridged final report, WMO-No.1259.

In 2010, WMO started to work on multi-year State of the Climate reports, including 10-year and 5-year timescales. The multiyear time scale allows enough time to gather enough data for retrospective analysis for long term signals assessed on climate indicators and extreme events. At this timescale, there is also enough data for attribution studies that can cover evenly various regions. The first decadal report was published in 2013 (WMO-No.1103), covering the 2001-2010 decade. It was published and launched at the occasion of the first Intergovernmental Board of Climate Services (IBCS), held at the Palais des Nations, Geneva in July 2013. In addition, two 5-year reports have been since published, including Global Climate in 2011-2015, which was submitted at Earth Info Day of UNFCCC-COP 22 and the Global climate 2015-2019, released on 22 April 2020 at the occasion of 50th anniversary of Earth Day.

2001-2010 report

The first WMO Decadal Climate Report (2001-2010) was published in 2013 and very positively received. The report was very featured prominently across UN organizations, research institutions and other educational platforms such as:

- **Swiss Academy of Science** (SCNAT.ch)
- **UNITAR** (UNCCLEARN.org)
- **UN-Social Development Network of Latin America and the Caribbean** (dds.cepal.org)
- With access through **UNEP** and **WCRP** websites

“The value of the WMO's work is the way it transcends ordinary timescales. It is easy for climate-change deniers to point to a very warm year like 1998 and argue that since subsequent years were cooler, climate change is a myth.

A decade-by-decade approach, and a view that covers the century or more since accurate temperature measurements started, give a much clearer picture of the emerging situation.”

- *Paul Rogers, Emeritus Professor of Peace Studies at Bradford University, UK.*

WMO Decadal Report 2011-2020

HINDSIGHT & FORESIGHT FOR SUSTAINABLE DEVELOPMENT

The perspective of the past decade (2011-2020) provides an important window of time for retrospective analysis of the major climate indicators and their real and potential impacts on sustainable development. The 2011-2020 report will be the second of its kind, following the successful 2001-2010 report and will be a key deliverable for the UNFCCC Global Stock-take and the Standing Committee on Climate Services.

Proposed Structure

Foreword

Executive Summary

1. State of the Climate indicators
2. State of knowledge/conclusions on attribution of extreme events
3. Climate, socioeconomic impacts, and the SDGs
4. Featured article on reaching/exceeding 1.5°C



March 2022:

Call for contribution

June 2022:

Deadline for input

December 2022

First full draft

30 June 2023

Final draft

31 October 2023

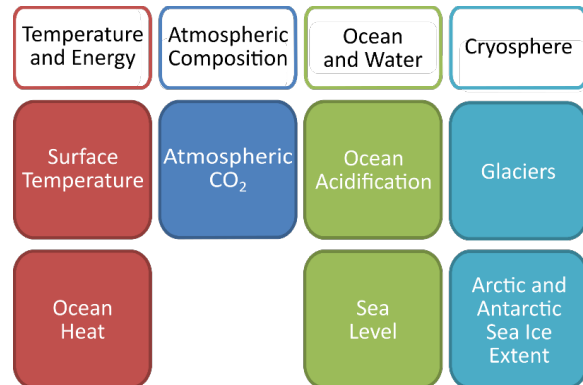
Published in 6
languages

*To be launched at
UNFCCC Global Stock-
take 2023*

State of the Climate Indicators- Data & Sources

Much like the annual State of the Climate reports, the Decadal Climate Report 2011-2020 will prominently feature [the seven-peer reviewed State of the Climate Indicators](#). To ensure the most robust and accurate data across all indicators, input comes from a variety of sources, including but not limited to:


- International climate centers
- National hydrological and meteorological services
- Research institutions & universities
- Scientific agencies
- WMO & UN programs



Country data collection

To collect vital information on long-term temperature and precipitation trends, the WMO Secretariat will collect decadal data from countries through a digital survey associated with the Country Profile Database. The survey will follow a similar structure from the first Decadal Climate report, collecting key information on:

1. National temperature and precipitation record values
2. Decadal national temperature anomalies and rankings
3. National temperature ranking by decade



WORLD METEOROLOGICAL ORGANIZATION

Decadal Climate Report 2011-2020

Daily Extremes Per Decade
Please fill out the following tables of daily extremes by decade. If data for is not available, please input "ND" or "No Data." Definitions for key terms are available at the end of the page.

4. 1961-1970

	Value	Date (YYYY/MM/DD)	Station name	Latitude	Longitude
Highest Maximum Temperature (°C)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Lowest Minimum Temperature (°C)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Maximum 24h rainfall (mm)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

10. Decadal Temperature

	Mean Temperature (°C)	Anomaly with respect to 1981-2020 (°C)	Ranking Warmest (1) - Coldest (12)
1901-1910	<input type="text"/>	<input type="text"/>	<input type="text"/>
1911-1920	<input type="text"/>	<input type="text"/>	<input type="text"/>
1921-1930	<input type="text"/>	<input type="text"/>	<input type="text"/>

Climate, Impacts & SDGs – Data & Sources

In 2021, the WMO published the brochure [Climate Indicators and Sustainable Development: Demonstrating the Interconnections](#) connecting the 7 state of the climate indicators through to the potential and theoretical impacts identified in academic literature and connected them to the risks they posed to the related Sustainable Development Goals (SDGs). Following this improved understanding of the interconnections between climate change and sustainable development, the WMO Decadal Report 2011-2020 will focus on quantifying these impacts through a three-step methodology.

Step 1: Determining 10-15 high impact extreme events

The WMO Secretariat, together with the lead author, will select 10 to 15 high-impact events that occurred over the past decade as case studies. The events will:

- Represent all WMO regions
- Be selected from previous WMO publications
- Feature diverse event types & impacts



Step 2: Gathering key impact statistics

To quantify the impact of the determined events, the WMO Secretariat will create a survey to send out to the affected countries/regions. The survey will be sent to:

1. NHMSs for key climate information & statistics
2. Designated focal point at national statistical office for impact data and SDGs

Step 3: Multi-stakeholder data & analysis

Finally, to analyze and compliment the data received from the survey, the WMO Secretariat will liaise with partners potentially including:

- FAO
- CRED-EMDAT
- Munich-Re
- UNHCR / IOM
- IMF
- WHO
- RiskLayer GmbH

Please check all related impacts and provide statistics where available

<input type="checkbox"/>	1 NO POVERTY	Rose poverty/affected livelihoods
<input type="checkbox"/>	2 ZERO HUNGER	Worsened food insecurity/damaged crops
<input type="checkbox"/>	3 GOOD HEALTH AND WELL-BEING	Contributed to health issues/spreading disease
<input type="checkbox"/>	4 QUALITY EDUCATION	Disrupted educational activities
<input type="checkbox"/>	6 CLEAN WATER AND SANITATION	Affected clean water availability
<input type="checkbox"/>	7 AFFORDABLE AND CLEAN ENERGY	Damaged energy sources/access to electricity
<input type="checkbox"/>	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	Destroyed or damaged infrastructure
<input type="checkbox"/>	10 REDUCED INEQUALITIES	Perpetuated or worsened inequalities
<input type="checkbox"/>	11 SUSTAINABLE CITIES AND COMMUNITIES	Led to displacement or migration
<input type="checkbox"/>	14 LIFE BELOW WATER	Affected marine ecosystems and/or biodiversity
<input type="checkbox"/>	15 LIFE ON LAND	Affected terrestrial ecosystems and/or biodiversity
<input type="checkbox"/>	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	Contributed to, perpetuated or worsened conflict