



**World Health
Organization**

2021 WHO health and climate change global survey report



World Health
Organization

2021 WHO health and climate change global survey report

2021 WHO health and climate change global survey report

ISBN 978-92-4-003850-9 (electronic version)

ISBN 978-92-4-003851-6 (print version)

© World Health Organization 2021

Some rights reserved. This work is available under the Creative Commons Attribution-NonCommercial-ShareAlike 3.0 IGO licence (CC BY-NC-SA 3.0 IGO; <https://creativecommons.org/licenses/by-nc-sa/3.0/igo>).

Under the terms of this licence, you may copy, redistribute and adapt the work for non-commercial purposes, provided the work is appropriately cited, as indicated below. In any use of this work, there should be no suggestion that WHO endorses any specific organization, products or services. The use of the WHO logo is not permitted. If you adapt the work, then you must license your work under the same or equivalent Creative Commons licence. If you create a translation of this work, you should add the following disclaimer along with the suggested citation: “This translation was not created by the World Health Organization (WHO). WHO is not responsible for the content or accuracy of this translation. The original English edition shall be the binding and authentic edition”.

Any mediation relating to disputes arising under the licence shall be conducted in accordance with the mediation rules of the World Intellectual Property Organization (<http://www.wipo.int/amc/en/mediation/rules/>).

Suggested citation. 2021 WHO health and climate change global survey report. Geneva: World Health Organization; 2021. Licence: CC BY-NC-SA 3.0 IGO.

Cataloguing-in-Publication (CIP) data. CIP data are available at <http://apps.who.int/iris>.

Sales, rights and licensing. To purchase WHO publications, see <http://apps.who.int/bookorders>. To submit requests for commercial use and queries on rights and licensing, see <http://www.who.int/about/licensing>.

Third-party materials. If you wish to reuse material from this work that is attributed to a third party, such as tables, figures or images, it is your responsibility to determine whether permission is needed for that reuse and to obtain permission from the copyright holder. The risk of claims resulting from infringement of any third-party-owned component in the work rests solely with the user.

General disclaimers. The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of WHO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by WHO in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by WHO to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall WHO be liable for damages arising from its use.

Design and layout by Phoenix Design Aid A/S

Contents

Acknowledgements	iv
Acronyms and abbreviations	v
List of figures, tables and boxes	vi
Main findings	viii
Summary table of 10 key health and climate change indicators	x
About this report	1
CHAPTER 1: Evidence for decision-making	4
Climate change and health vulnerability and adaptation assessments	4
CHAPTER 2: Leadership and governance	8
National health and climate change plans or strategies	8
Multisectoral collaboration	13
CHAPTER 3: Implementation	18
Climate-informed health surveillance and early warning systems	18
Health and climate change research	22
Health workforce	23
Climate-resilient and environmentally sustainable health care facilities	25
CHAPTER 4: Finance	27
Access to international climate funds	27
Chapter 5: Promoting health co-benefits of climate change mitigation	30
Assessments of health co-benefits of climate change mitigation	30
Health in NDCs	31
References	33
Annexes	37
Annex 1: Survey methodology	38
Annex 2: Summary of country responses	40
Annex 3: Supplementary figures and information	78

Acknowledgements

The World Health Organization would like to express its gratitude to all national health authorities that participated in the 2021 WHO health and climate change global survey. Their generous contribution towards collecting, compiling and reviewing the data has been essential to track global progress on health and climate change, and is deeply appreciated.

The global survey report was led by Tara Neville in collaboration with Miguel Gomez-Escolar Viejo, Nicola Wheeler and Diarmid Campbell-Lendrum from the WHO Department of Environment, Climate Change and Health. Special thanks to Carlos Corvalan, Carine Cruz, Alexandra Egorova, Marina Maiero, Maylin Meincke, Anne-line Nippierd Imbsen, Lina Rodriguez, Cristina Romanelli, Amy Savage, Aderita Sena, Elena Villalobos Prats and Arthur Wyns for their expertise and contributions to the survey, analysis and report preparation. The report was prepared under the guidance of Maria Neira, Director of the WHO Department of Environment, Climate Change and Health.

WHO is grateful to Kristie Ebi and Peter Berry for their expert review and contributions.

Data collection, validation and reporting would not have been possible without the close collaboration of the WHO regional, subregional and country offices. Special thanks to Ahmad Basel Al-Yousfi (WHO Regional Office for the Eastern Mediterranean), Christopher Boyer (WHO Division of Pacific Technical Support, Fiji), Daniel Buss (WHO Regional Office for the Americas / Pan American Health Organization), Myoungsil Han (WHO Regional Office for the Western Pacific), Mohd Nasir Hassan (WHO Division of Pacific Technical Support, Fiji), Vladimir Kendrovski (WHO Regional Office for Europe), Antonios Kolimenakis (WHO Regional Office for Africa), Marcelo Korc (WHO Regional Office for the Americas / Pan American Health Organization), Mazen Malkawi (WHO Regional Office for the Eastern Mediterranean), Guy Mbayo (WHO Regional Office for Africa), Anwar Mendez (WHO Regional Office for the Americas / Pan American Health Organization), Kelera Oli (WHO Regional Office for the Western Pacific), Genandrialine Peralta (WHO Regional Office for the Western Pacific), Saori Kitabatake (WHO Division of Pacific Technical Support), Rasheed Hussein (WHO Regional Office for South-East Asia), Saleh Rababa (WHO Regional Office for the Eastern Mediterranean), Oliver Schmoll (WHO Regional Office for Europe) and Johanna Wegerdt (WHO Regional Office for the Western Pacific, ACE).

WHO is grateful for the financial support received from the Norwegian Agency for Development Cooperation (NORAD) and the Wellcome Trust. The views expressed in this report do not necessarily reflect the views of these financial donors.

Acronyms and abbreviations

BAR-HAP	Benefits of Action to Reduce Household Air Pollution
CaRBonH	Carbon Reduction Benefits on Health
FEBA	Friends of Ecosystem-based Adaptation
HEWS	Health early warning systems
HICs	High-income countries
HNAP	Health National Adaptation Plan
IUCN	International Union for the Conservation of Nature
LLMICs	Low-and-lower-middle-income countries
MoU	Memorandum of understanding
NAP	National Adaptation Plan
NBSAP	National biodiversity strategy and action plan
NDC	Nationally determined contribution
OECD	Organisation for Economic Co-operation and Development
SIDS	Small island developing states
UMICs	Upper-middle-income countries
UNEP	United Nations Environment Programme
UNFCCC	United Nations Framework Convention on Climate Change
V&A	Vulnerability and adaptation
WHO	World Health Organization

List of figures, tables and boxes

Figure 1:	Participation in the 2021 WHO health and climate change global survey	2
Figure 2:	Map of countries and areas that have conducted a climate change and health V&A assessment (95 respondents)	4
Figure 3:	Percentage of LLMICs that have conducted a climate change and health V&A assessment (39 country respondents)	5
Figure 4:	Year in which the most climate change and health V&A assessment was completed, by total number of countries with a completed assessment in that time period (46 country respondents)	5
Figure 5:	The influence of climate change and health V&A assessment findings on health policy-setting (45 country respondents)	7
Figure 6:	The influence of climate change and health V&A assessment findings on the allocation of human and financial resources within the ministry of health to address health risks of climate change (44 country respondents)	7
Figure 7:	Map of countries and areas with a national health and climate change plan or strategy in place (95 respondents)	8
Figure 8:	The year in which national health and climate change plans or strategies were completed, by number of countries in the time period (of 49 countries that had a plan, information was not available for 10 countries)	9
Figure 9:	Level of implementation of national health and climate change plans or strategies (46 country respondents)	11
Figure 10:	Main barriers to implementation of national health and climate change plans or strategies (46 country respondents, multiple responses possible)	12
Figure 11:	Current sources of funding for the implementation of national health and climate change plans or strategies, by World Bank income group classification (46 country respondents)	12
Figure 12:	Percentage of countries in which the ministry of health has a designated focal point responsible for health and climate change (95 country respondents)	13
Figure 13:	Percentage of countries in which the ministry of health has established a multi-stakeholder mechanism on health and climate change that is currently operational (95 country respondents)	14
Figure 14:	Number of countries that reported participation of specified health programme or cross-cutting area in their multi-stakeholder mechanism on health and climate change (51 country respondents)	14

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_23516

