

# Overview and application of the WMO-GCF Technical Guidance “Developing the Climate Science Basis for Climate Action”

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WMO OMM

World Meteorological Organization  
Organisation météorologique mondiale

# Facilitating Team

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# Agenda

1. Overview of the WMO-GCF collaboration on Enhancing the Climate Science Basis of GCF Funded Activities (2018-2021)
2. Introduction to the initiative on climate science information for climate action (2022-2023)
3. Description of key tools and methods for developing climate science information
4. A stock-take of how climate science information has been used to develop NAPs in LDCs
5. Applying the WMO-GCF Technical Guidance on climate science information: The example of Haiti

# Enhancing the Climate Science Basis of GCF Funded Activities (2018-2021)

# Climate Science Project Outputs

Guidance document

## Guide for Developing the Climate Science Basis for GCF Funded Activities

### Climate Information Platform (CIP)

A web-based data access platform – providing access to CMIP and CORDEX projections and indicators worldwide.

Tools & data sources

### Climpact

A software package to calculate over 70 climate indices from historical daily temperature and precipitation relevant for the health, agriculture, water and other climate-sensitive sectors.

Country examples

Evidence-based climate action solutions for agriculture, health, water, energy, fisheries, forestry, coastal zone management, DRR and other sectors from St. Lucia, the Democratic Republic of the Congo, Cabo Verde and Cambodia.



Platform for structured access to analyzed data output and technical resources



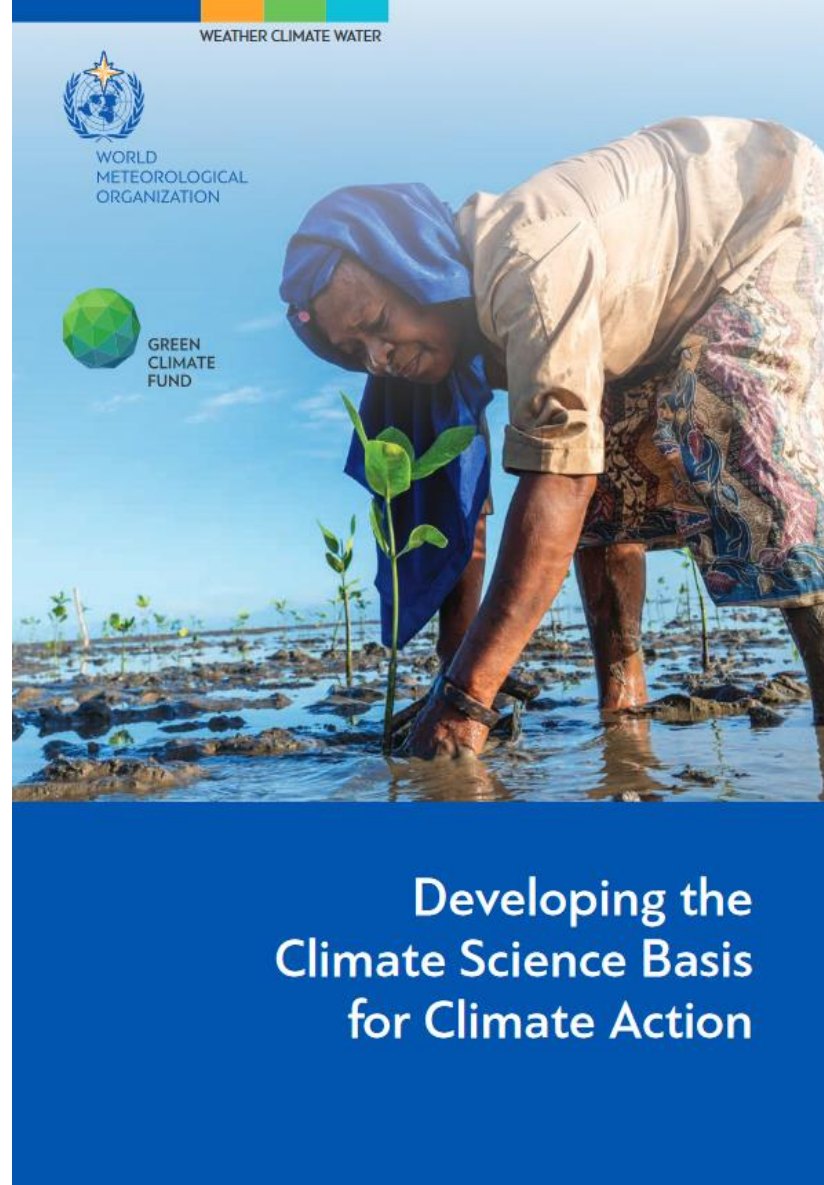
Methodology field-testing, regional consultations and expert advice



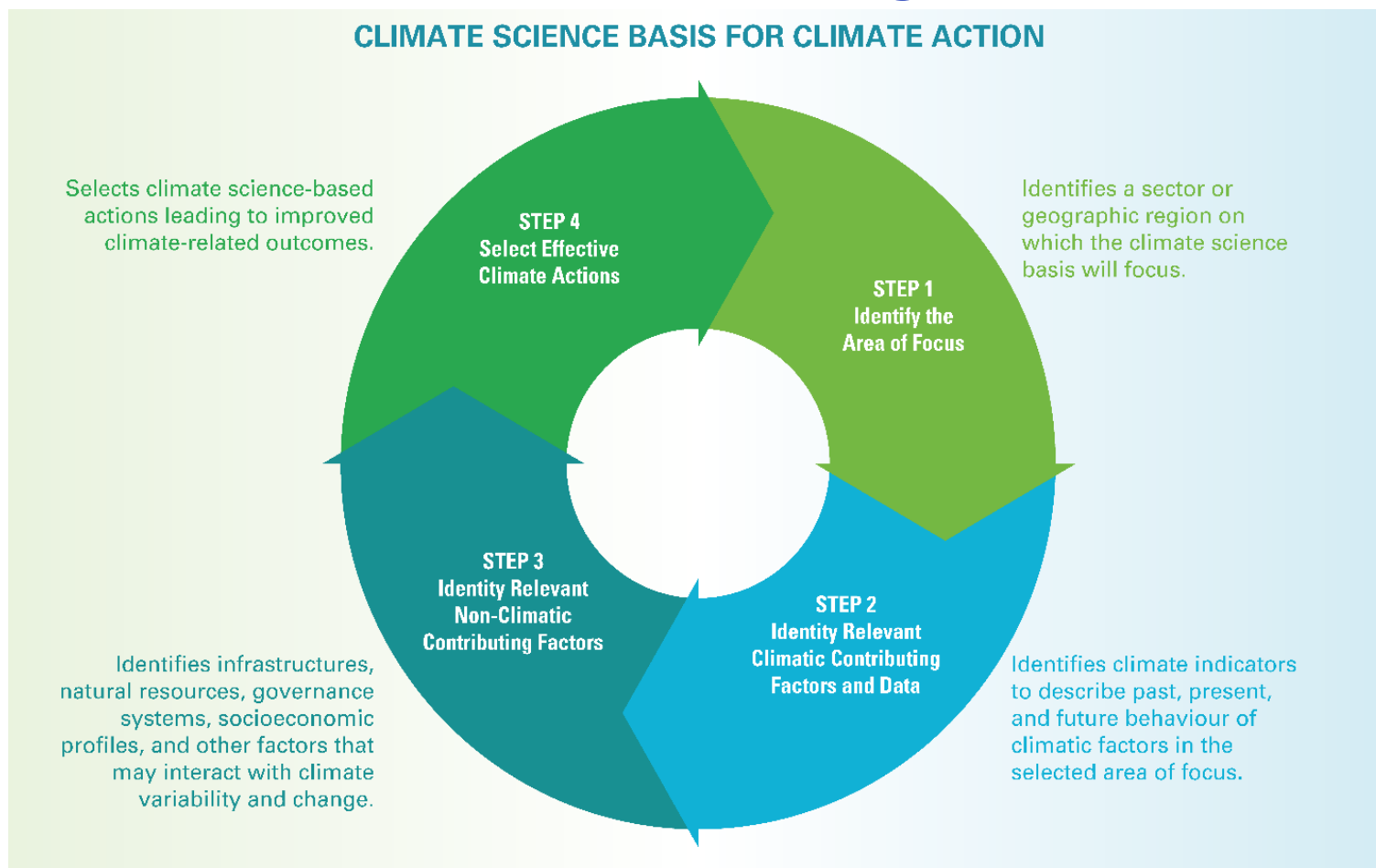
Hands-on implementation and capacity development at country level



Networking with national to international partner organizations



# The climate science information guidance document



WMO-GCF, 2021

The guide outlines four **steps** for developing a climate science basis for GCF-funded activities, particularly **adaptation investments**. The methodology can be extended to support interventions that climate-proof mitigation actions.


## Applications:

- GCF projects
- Projects funded by other climate finance sources
- Nationally Determined Contributions
- National Adaptation Plans (NAPs)

# Tools & Data Sources

1933 05 22	0.0	25.7	10.6
1933 05 23	0.0	24.4	9.7
1933 05 24	2.0	18.9	7.1
1933 05 25	16.6	15.2	9.6
1933 05 26	0.2	16.6	9.3
1933 05 27	0.0	17.5	7.9
1933 05 28	0.0	17.8	7.2
1933 05 29	0.0	18.9	7.7
1933 05 30	0.1	17.7	7.3
1933 05 31	0.0	18.8	5.0
1933 06 01	0.0	18.8	5.1
1933 06 02	0.0	23.8	5.4
1933 06 03	0.0	26.0	10.4
1933 06 04	0.0	27.2	12.1
1933 06 05	0.0	27.3	12.1
1933 06 06	0.0	28.5	9.8
1933 06 07	0.0	26.0	14.0
1933 06 08	0.0	24.9	12.2
1933 06 09	1.2	21.8	12.0
1933 06 10	4.3	16.0	11.6
1933 06 11	0.0	16.0	10.8
1933 06 12	8.9	17.7	11.0
1933 06 13	0.0	21.6	11.0

[climimpact-sci.org](http://climimpact-sci.org)



Quickly calculate climate indices using your own weather and climate data

## Climate Information Platform (CIP)

A web-based data access platform that provides access to the most reliable hydro-climatic data and technical resources for climate science inputs relevant for GCF submissions.



### Site-specific report

Get an instant climate change overview for any location world-wide.



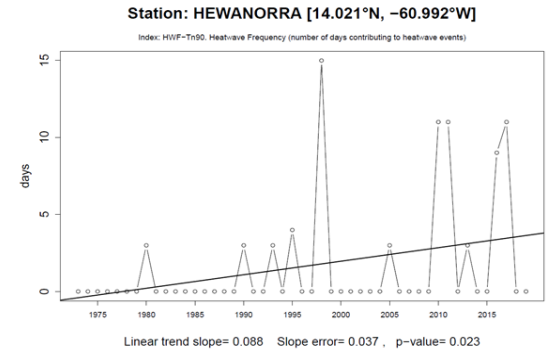
### Data Access Platform

Download pre-calculated climate indicators and explore interactive maps and graphs.



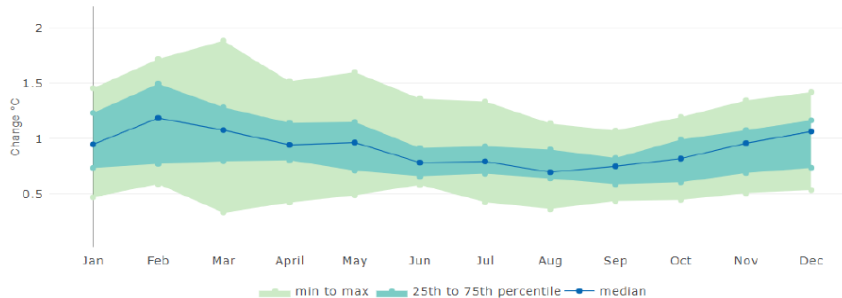
### Climpact

Calculate climate indicators using your own weather and climate data.




### Temperature (monthly mean)

Change compared to historical period.



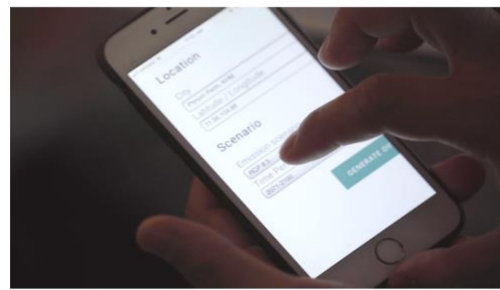
Indicator: Temperature (annual mean), Time period: 2011-2040, Historical period: 1981-2010, RCP 8.5, Model: CORDEX Africa Ensemble Mean, Model results for an area covering the location: Praia, Ilhas do Sotavento (14.92, -23.51)



### Annex I. Guidance on Methods, Tools and Data

Version 8 September 2021

#### Developing the Climate Science Basis for Climate Action



Source: WMO, 2020



# Country Examples

Saint Lucia

Democratic Republic of Congo

Cabo Verde

Cambodia



## Annex II. Country Case Studies

Version 8 September 2021

### Developing the Climate Science Basis for Climate Action



Source: WMO, 2020





# Project Phase II

## CLIMATE **SCIENCE** INFORMATION FOR CLIMATE **ACTION**

- Goal: *Transformative climate action underpinned by sound climate science information*
- Objective: *To systematically strengthen the capacity of stakeholders to incorporate climate science information into climate adaptation plans, policies and investments*



# Implementation Plan with GCF for Phase II (2022-23, first year)

1. Roll out (of methodology, materials, tools)
  - Global Forum on Climate Science Information One-stop-shop on methods and tools
  - Expert Facility
2. Maintenance and enhancement of tools and methods (e.g., Climate Information Platform, Climpact)
  - Upgrade from CMIP5 to CMIP6
  - Inclusion of IPCC interactive Atlas
  - Sector-specific guidance and tools
3. Capacity development for all stakeholders
4. Hands-on support for specific implementation cases
  - Climate science information
  - Hydro-met systems and services enhancements in funded projects
5. Strategic Information for Policy and Finance (UNFCCC SCF, QMS, capacity checklist, etc.)

# Current & Upcoming Events

1. Regional Training Workshop on Climate Science Information: Johannesburg, South Africa / 12-16 September 2022
2. First Global Forum on Climate Science Information: Geneva, Switzerland- WMO Secretariat & Virtual / 27-29 September 2022

# Thank you!

For any support requests or inquiries:  
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