EGU 2020 ITS1.2/CL5.9

How to make weather and climate services more efficient in developing countries



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# The Climate Information platform: A climate science basis for climate adaptation and mitigation activities in developing countries









#### **Climate Information**

Climate Information is a web platform developed to provide:

- Instant summary reports of climate change for any site on the globe.
- Easy access to many pre-calculated climate indicators, based on state-of-the-art in climate science.
- Guidance on how to link global changes to local observations.

The project is funded by the Green Climate Fund, WMO and WCRP and developed by SMHI





# **Climate Information**

### https://climateinformation.org/

Providing climate science basis for climate adaptation and mitigation activities

View a short intro film

# View video



Site-specific report

Get an instant climate data overview for any location worldwide.



Data Access Platform

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



Climpact

Calculate climate indices using your own weather and climate data.

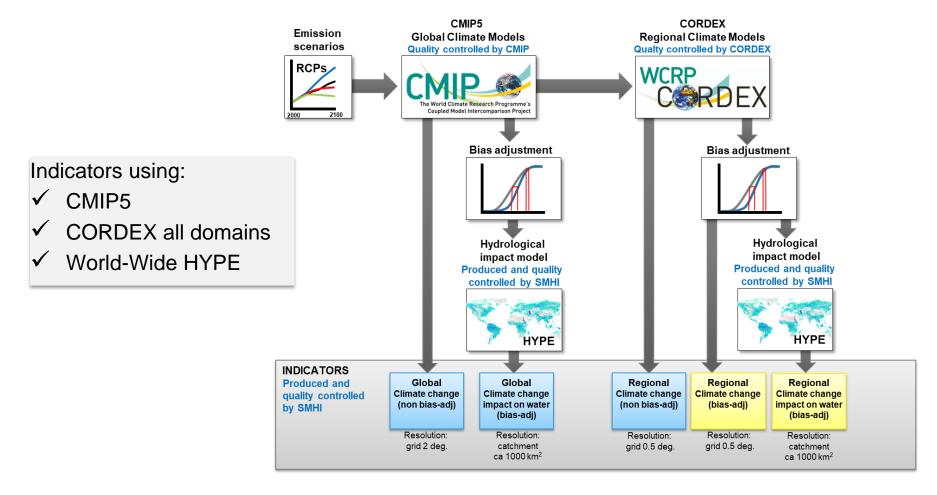








#### **Global Climate Indicators**









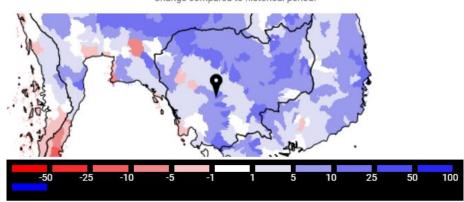
#### **Global Climate Indicators**

#### Climate Indicators for:

- ✓ Temperature
- ✓ Precipitation
- ✓ River discharge
- ✓ Runoff
- ✓ Soil moisture
- ✓ Aridity
- ✓ And more

#### Soils moisture (annual mean) for Cambodia

Change compared to historical period.



Indicator: Soils moisture (annual mean), Time period: 2071–2100, Historical period: 1981–2010, Model: CORDEX South Asia-WWHYPE. Location: 12.13. 104.34.

Reference: https://climateinformation.org (date: 2020-04-30)



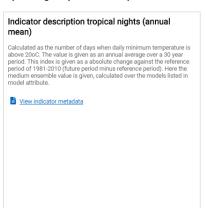




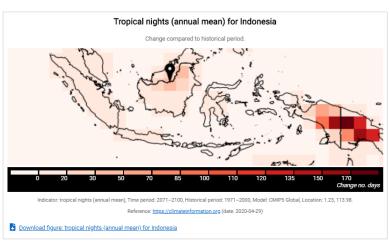
# **Site-Specific report**

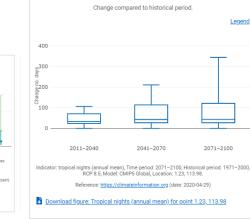
Tropical nights (annual mean)

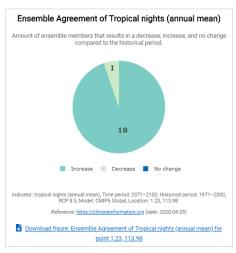
Quick and user friendly summary of key indicator with metadata information and confidence metrics



Tropical nights (annual mean)



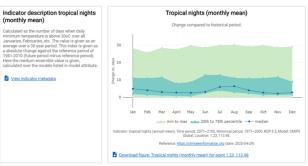




#### Key message for tropical nights (annual mean) For the time period 2071-2100

- compared to 1971-2000 (RCP 8.5) · Median change is 43.9 days (ensemble mean)
- 50 % of the ensemble members (interquartile range) agree that the change lies in the range 27.5-121.8

Tropical nights (monthly mean)





2071-2100

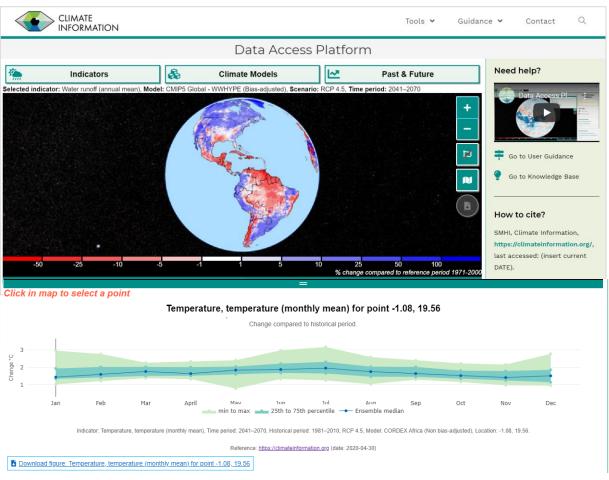
Legend





#### **Data Access Platform**

Quick and user friendly access to indicators for past (absolute values) and future period (change values)









# **WMO** workshops

#### Purpose:

Initiate proposal writing for GCF projects with establishing a climate case with climate data with national and invited experts

- Workshops in
  - St. Lucia (East Caribbean)
  - Democratic Republic of Congo (Africa)
  - Cape Verde (Africa)
  - Cambodia (South East Asia)



#### Hands-on training on:

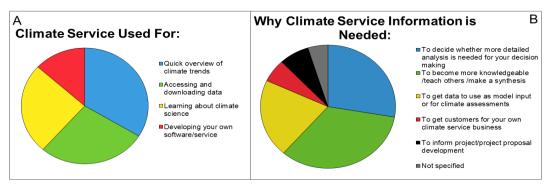
- understanding climate model results and climate data users
- linking global to local data
- understanding users and their needs
- using the Climate Information platform

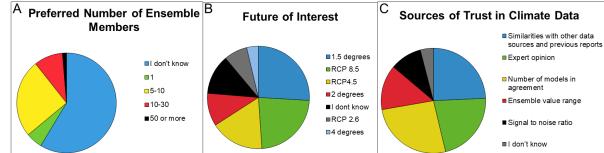


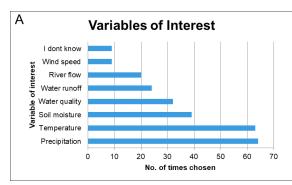


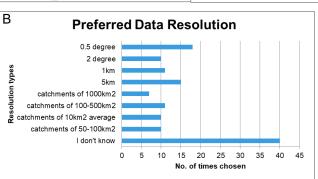


#### **Feedback outcomes**















# Thank you!



Hydrology R&D SMHI

Please visit <a href="https://climateinformation.org/">https://climateinformation.org/</a> and give us your feedback!





