

Global Framework for Climate Services

Development and Delivery of Climate Services
Research Dialogue 8
19 May 2016



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World Meteorological Organization
Organisation météorologique mondiale

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Outline

- Brief background on the Global Framework for Climate Services (GFCS) and its contributions to development and delivery of climate services
- Status of GFCS implementation as of 2016
- Next steps



GFCS background

- Proposed during the third World Climate Conference in 2009
- Endorsed by 13 heads state or government, 81 ministers and 2,500 scientists
- Seeks to guide the development and application of science-based climate information and services in support of decision-making in climate sensitive sectors
- Member state governance structure
 - Inter-governmental Board on Climate Services
- Partners Advisory Committee of international organizations
 - World Bank, WHO, FAO, WFP, UNDP, IFRC, European Commission, WBCSD et al.
- 10-year initial implementation plan designed over four years by dozens of experts, backed by initial financing, in fourth year of implementation
- WMO strategic priority



Priority areas

- ✓ **Water**
- ✓ **Disaster risk reduction**
- ✓ **Health**
- ✓ **Agriculture/food security**
- ✓ **Energy (including renewables)**



What are Climate Services?

- Information on past, present and future climate, and on its impacts on natural and human systems
 - Historical climate data sets
 - Climate monitoring
 - Climate watches
 - Monthly/Seasonal/Decadal climate predictions
 - Climate change projections
- Improved climate-related outcomes
 - Access to the right products for decision making
 - Appropriate use, including aspects of uncertainty



Photo Credits: NASA, Pedro Sanchez, Renzo Taddei

Status 2016: Data rescue



Search this site

Search

Data & Projects (by Country)

- Choose -

Go

Recently added Data to be Rescued

- Data Rescue in Senegal (Senegal)
- Data Rescue in Tanzania (Tanzania)
- Data Rescue in Botswana (Botswana)
- Mission Report 16 – 20 November Conakry, Guinea (Guinea)



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Status 2016: Observing systems

WMO ID

Generate station lists by:

Country

Type

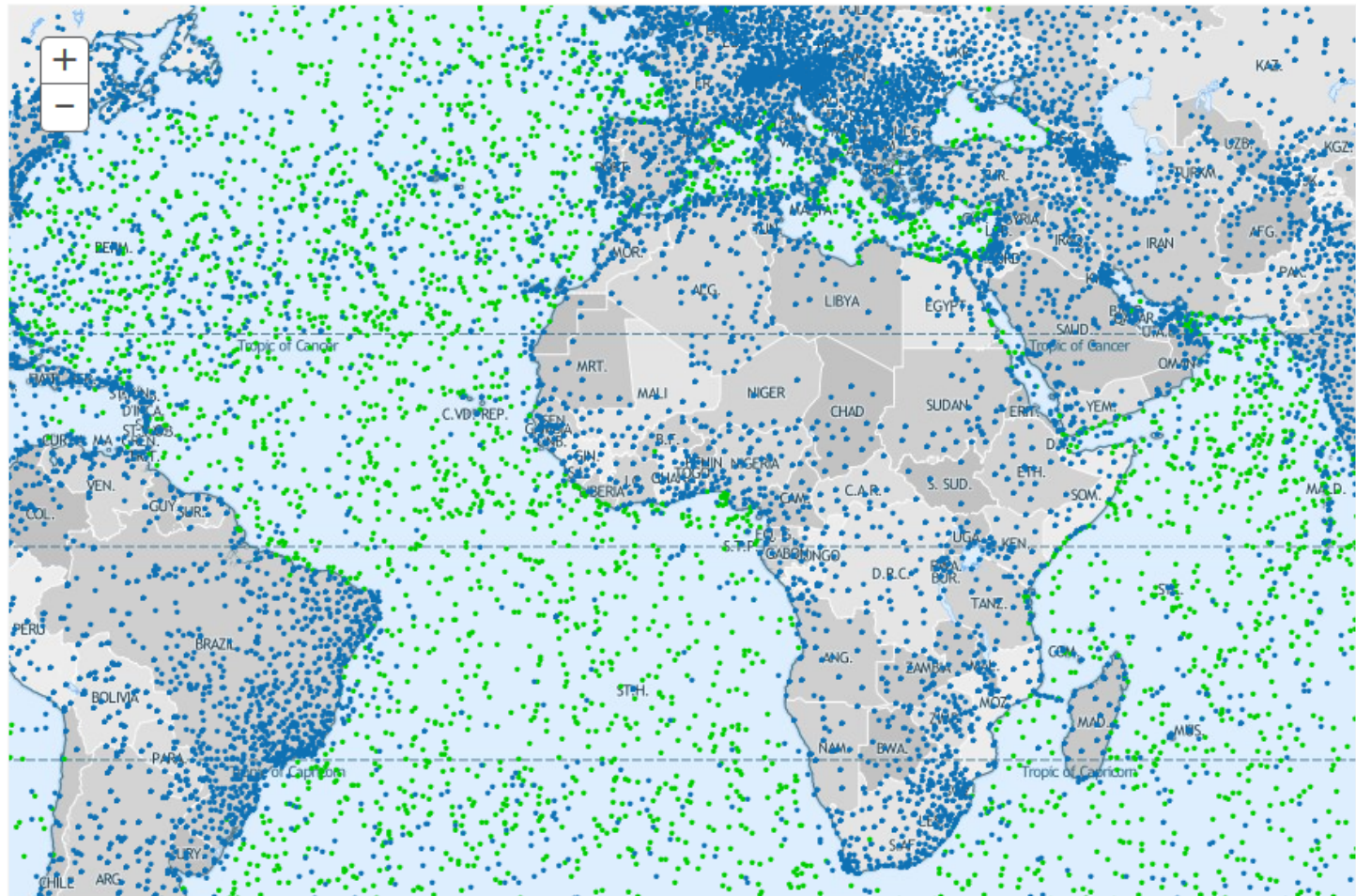
Find people by:

Contact name

Filter map

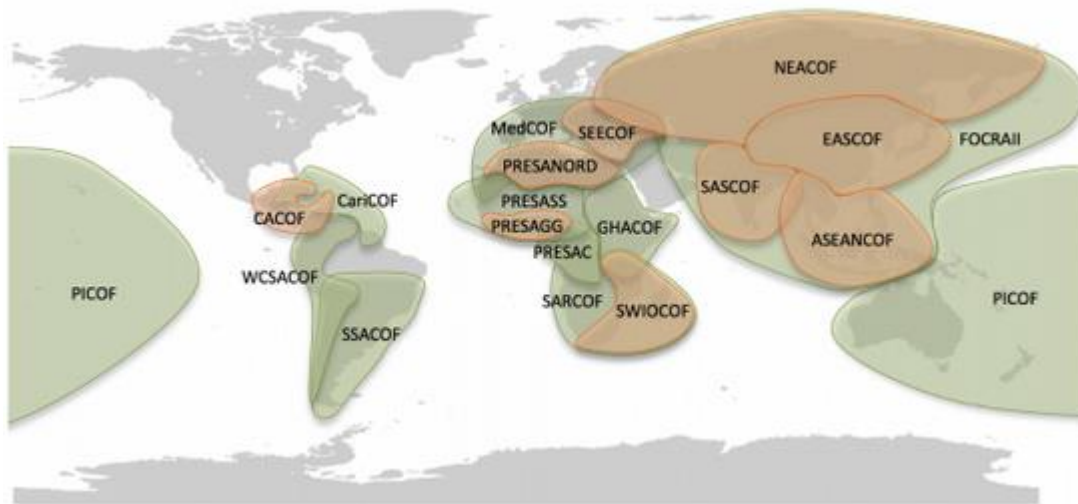
By program / network:

- ☒ WIGOS components
 - ☒ GOS
 - ☒ GAW
 - ☒ WHOS
 - ☒ GCW
- ☒ Co-sponsored components
 - ☒ GCOS
 - ☒ GOOS
 - ☒ GTOS
- ☒ Other components



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Status 2016: Seasonal forecasts



Regional Climate Outlook Forums (RCOFs) produce consensus-based, user-relevant climate outlook products in real time in order to reduce climate-related risks and support sustainable development for the coming season in sectors of critical socioeconomic significance for the region in question. (Map of Forums around the world.)



Maproom
Climate

ENSO State
La Niña

Climate Forecast

Probability of Monthly Averages (in a Season) Rainfall Tercile Conditioned on ENSO

Region

Tanzania

Spatially Average Over

gridpoint

Season

May-Jul

Tercile

Wet

Description

Dataset Documentation

Instructions

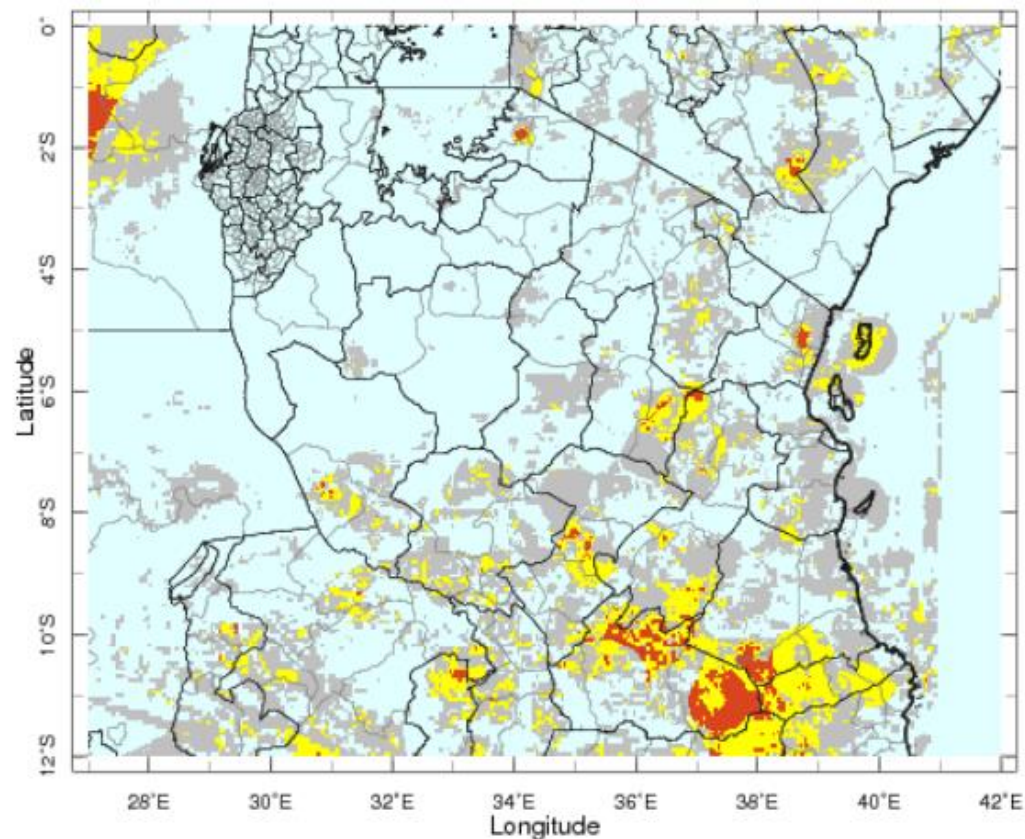
Contact Us

Probability of Monthly Averages (in a Season) Rainfall Tercile Conditioned on ENSO

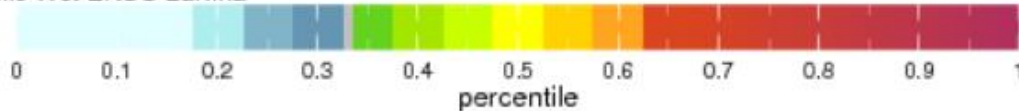
Status 2016: NMHS services



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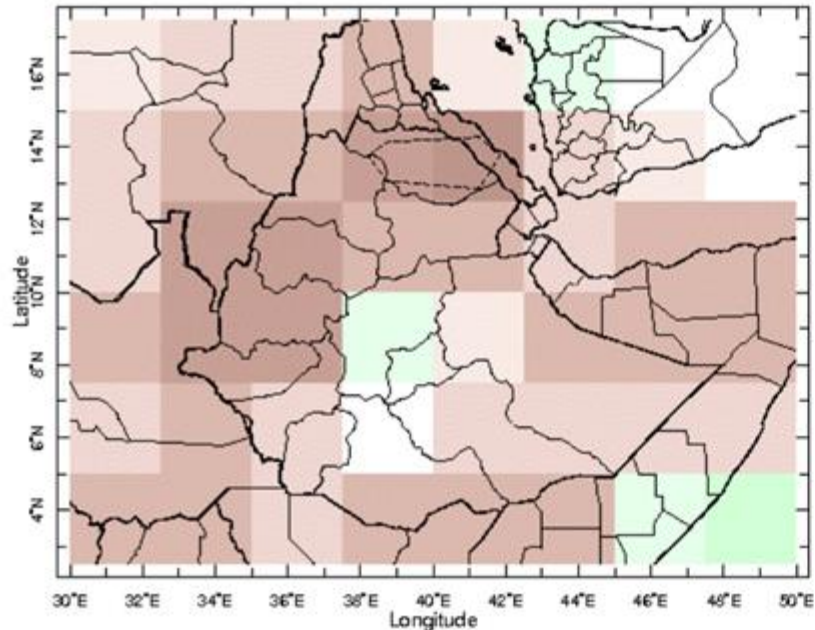


Tercile Wet ENSO LaNina



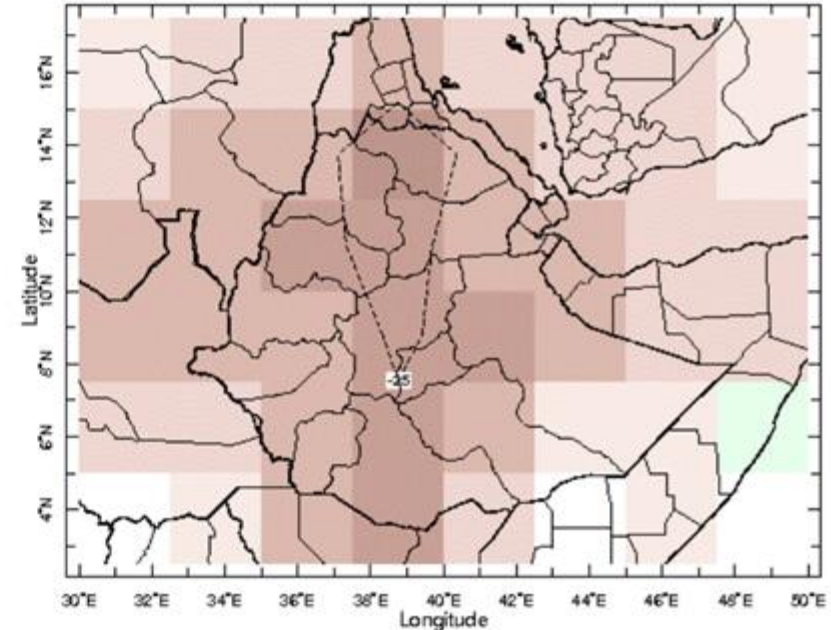
Ethiopia: Same extreme event, different outcomes

1983-1984 Drought



300,000 deaths

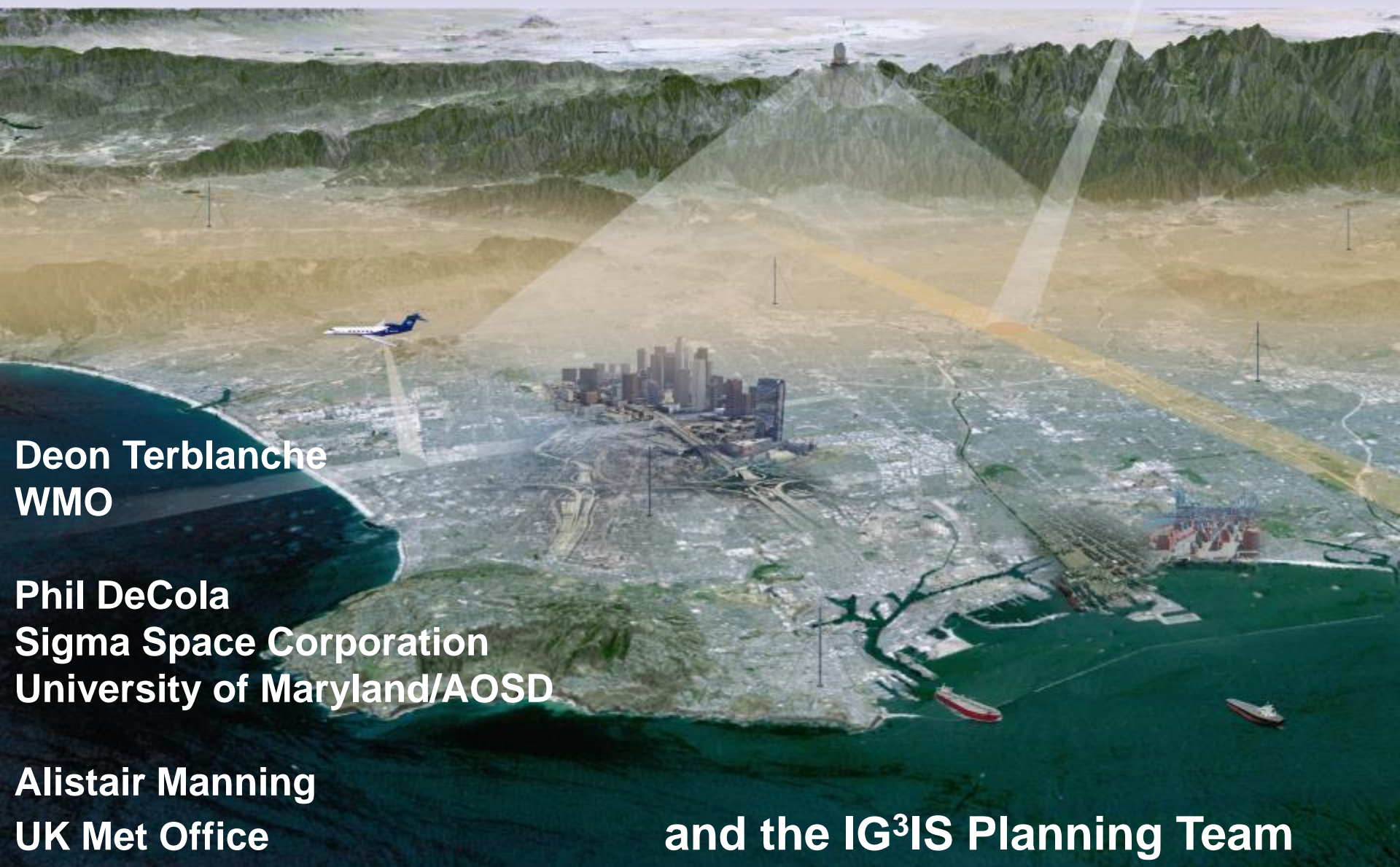
2009-2012 Drought



Host for Somali refugees



Integrated Global GHG Information System (IG³IS): Evidence Based Policy Support and Evaluation



Deon Terblanche
WMO

Phil DeCola
Sigma Space Corporation
University of Maryland/AOSD

Alistair Manning
UK Met Office

and the IG³IS Planning Team

GFCS next steps

- Intensive focus on 6-8 countries agreed by GFCS Partners Advisory Committee (PAC), to put in place comprehensive measures sufficient to demonstrate significant climate adaptation benefits
- Stepped up implementation of the Climate Services Information System “backbone”, to reinforce 70 countries with enhanced data, forecasting and decision-support resources
- Technical advisory, planning (NAP) and coordination services in the GFCS priority areas through the GFCS PAC (GCF proposal on climate services for energy in preparation)



Thank you



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