

Creating, Accessing and Using Data

- What kinds of data are necessary for establishing viable climate services? What is *good enough* info?
- What can be done to enhance the *ability to downscale* and or foster regional analysis?
- How to operate in data scarce environments – how do you set standards in different contexts/environments?
- What priority investments are necessary in the immediate (globally, locally)?
- Should climate data be freely accessible?

What kinds of data are necessary for establishing viable climate services?

What is climate data – where to draw the line between climate and climate *impacts*?

What is climate services and which are the communities served?

--- focus on user needs and allow flexibility

--- depends on context and partners involved

What is *good enough* info?

--- ‘negotiation’ between the provider and user

What can be done to enhance the *ability to downscale* and or foster regional analysis?

Discussion on utility of downscaling methods

Downscaling vs. bias correction

Different context for seasonal/long-range forecasts, and for decadal prediction/centennial scenarios

--- *seasonal forecasts*: better understanding of the physical processes and model improvements

--- *climate scenarios*: major coordinated effort within *CORDEX* for most land areas, including strong outreach/training component

--- Both streams: end to end approach – eye on user needs

How to operate in data scarce environments – how do you set standards in different contexts/environments?

Data rescue is high(-est) priority

Combine observational data and remote sensing data

Data assimilation → reanalysis products

Create forum to share experiences (e.g. Ethiopian example)

What priority investments are necessary in the immediate (globally, locally)?

Baseline climatologies

- help answering present day (short-term) problems
- extend trends into the near future
- reference in scenario analyses
 need to know where we are to better understand where we are going

Data rescue

‘Optimal’ use of existing data → reanalyses / data assimilation

Should climate data be freely accessible?

YES!

--- but include/invite the data provider in the analyses

--- acknowledge that there was a huge effort in getting the data

Short term goals:

- Data rescue (digitising) + data assimilation / reanalysis → gridded homogeneous data sets at high resolution
- Downscaling guide or conference (efforts already under way)
- Highlight useful experiences from the field.
E.g. Ethiopia integrating satellite and observational measurements

Long term goal:

- Creating an END-TO-END system of data distribution and use
- Establish a solid chain of knowledge
- Create symbiotic relationships between data producers and data users

