



Sustained Observations to support the Paris Agreement





Systematic observations are vital for the Paris Agreement. Observations are needed to both implement actions and to monitor the progress and impacts:

- **1** Observations are needed to understand the current state of the environment at a global level. GCOS is promoting a small set of Climate Indicators that present the state of the climate in a simple way (see Global Climate Indicators)
- 4. In other areas, such as observing the progress of adaptation, its use still needs to be demonstrated (see example of potential remote sensing of implementation of adaption actions: ameliorating urban heat extremes)

In many cases, adaptation planning will be based on the outputs of reanalysis and downscaled

Remote sensing showing new deforestation, and land uses. This allows monitoring of deforestation and transitions between different land uses. Here forest is being converted to agricultural land.

- 2. The geographic distribution of the changes in the parameters is also available (see Sea ice extent anomaly)
- In some areas the use of observations is well 3. established (See, for example, forest and land use/land cover monitoring)

models, these depend on systematic sustained observations to maintain their accuracy.

GCOS is supporting all these uses of observations in order to support the Global Stocktake and Paris Agreement.

Example of potential remote sensing of implementation of adaption actions: ameliorating urban heat extremes







Systematic Observations are fundamental to implementing the Paris Agreement and monitoring its progress





