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## Climate - Importance of Observations from Space

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- Necessity for having a large numbers of different obs to understand how a climate change is affecting the planet.
- Systematic monitoring
  - ↳ Critical measurements to appropriate standards and their definitions

The essential climate variables - 50 GCOS  
→ only a handful from in-situ measurements

Satellite obs - allow regional information on for example on sea level rise - i.e. the anisotropic nature.

Climate change initiative  
(ESA Climate Office - Namwell)

CCI - portal - visualization tool available from Autumn 2015.

Antarctica - Gravimetry, Radar Altimetry,  
Interferometry,  
Laser Altimetry

Copernicus - sentinel missions.

- Sentinel 1a,b launched.

Sentinel 2 - land obs.

Global forest observation initiative