



The Space for Climate Observatory

Supporting EO-based applications for
climate action



The SCO aims to **provide operational tools and studies to help decision-makers to adapt to climate change,** especially at a **local scale**, using satellite-based observation tools together with in-situ data and models.



Transparency
of its actions, of data used
and provided



**local capacity
building**



**Sharing of
knowledge**



**effective
applications**
for climate change
adaptation

The four pillars of SCO



Addressing the SDGs

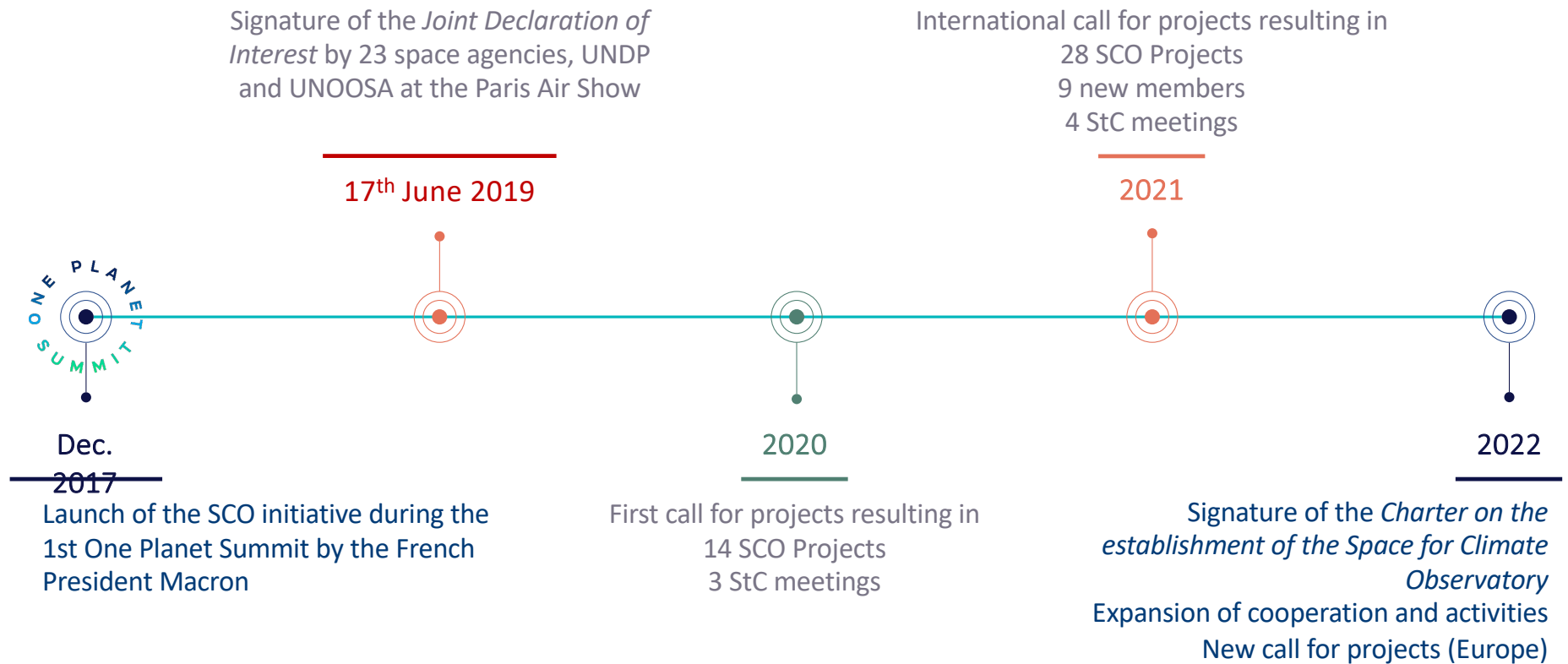
An alliance of 29 space agencies and organisations



Stimulate actions through projects
to design operational tools for decision-makers

- Governments
- Local authorities
- Space agencies
- Meteorological agencies
- R&D centres
- Copernicus program
- Private companies
- Computing infrastructures
- Group of Earth Observations
- Etc.

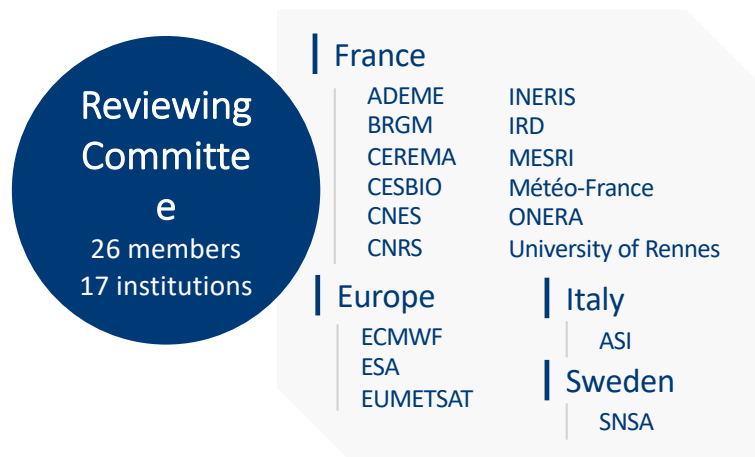
Overview of the SCO since its launch



France and Europe call for SCO Projects 2022/2023

From Sep. 1st to Nov. 15th, 2022

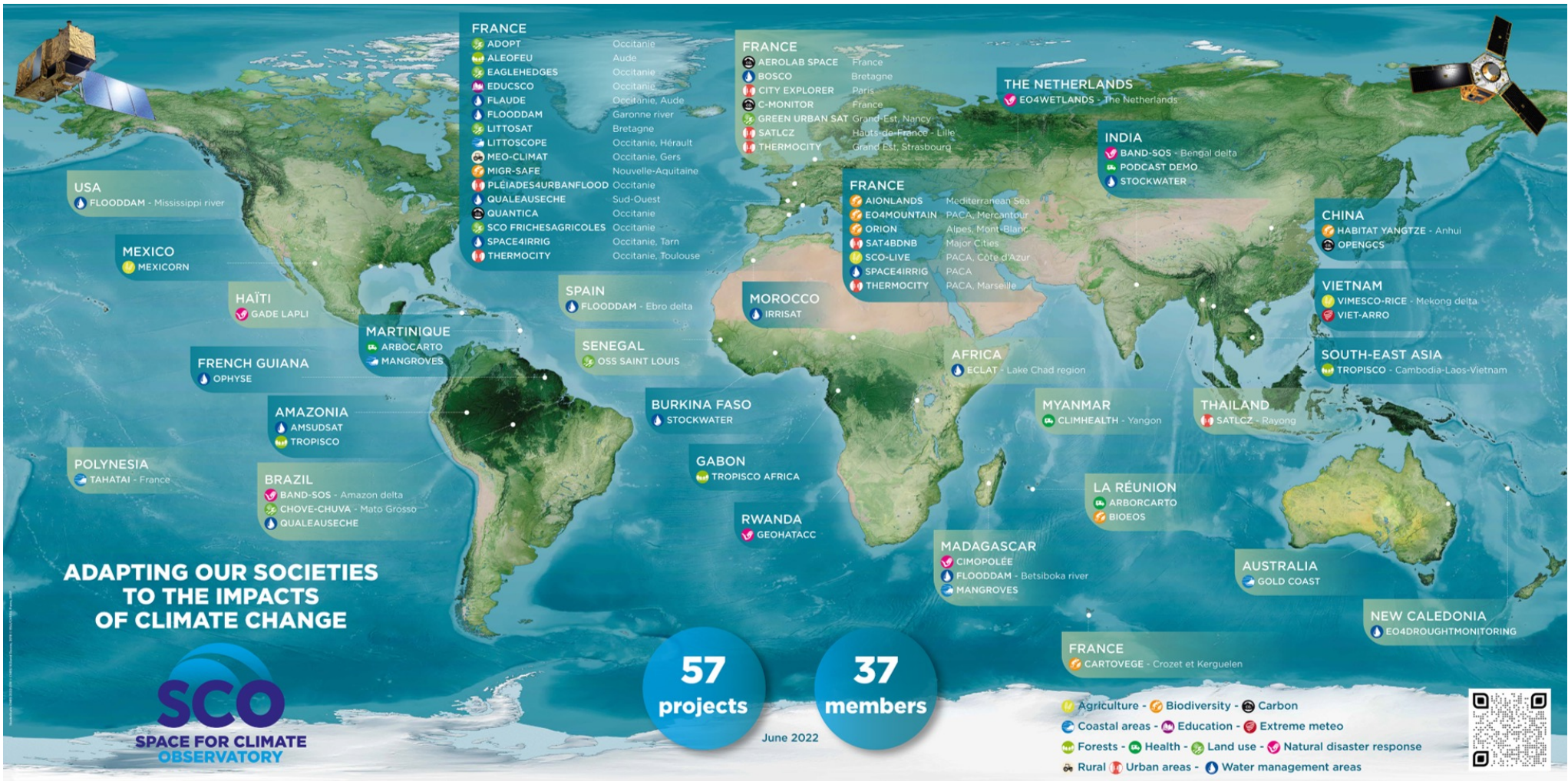
All of Europe



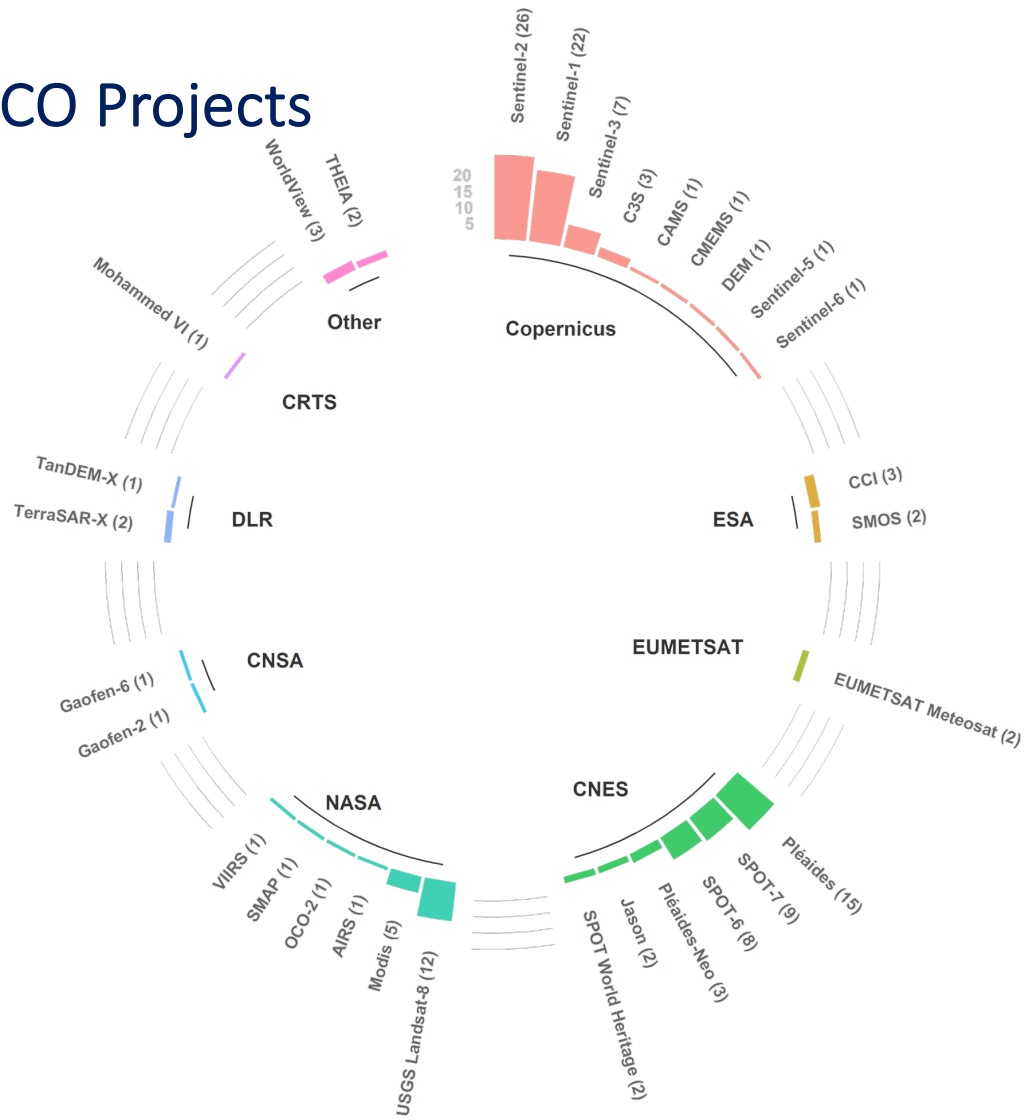
Each project is assessed by three different reviewers and graded

- Grade A** ★
Project in full adequation with SCO criteria
- Grade B** ★
Project still lacking on certain aspects
- Grade C or D** ●●●
Project too far removed from the expectations

This call for Projects is open to all interested European Signatories.

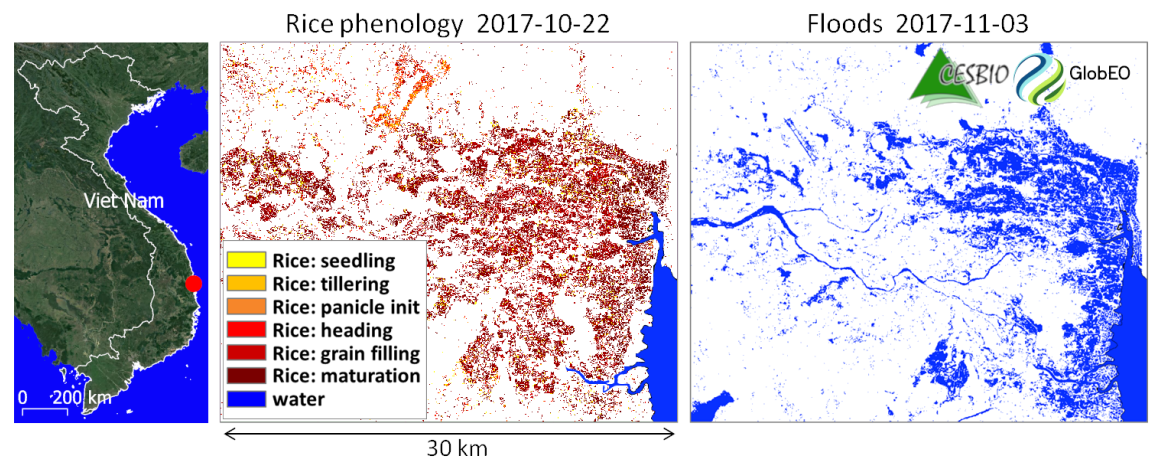


Satellite data in SCO Projects



VietARRO _ Vietnam Agriculture Resilient Recovery Observatory

- Triggered in the framework of SCO (**Typhoon Damrey**, 2017)
- Managed by CNES and VAST/VNSC with the support of Athena Global
- **Target user** : Ministry of Agriculture and Rural Development, Vietnam National Disasters Management Agency (MARD/VNDMA)
- Need to assess accurately affected rice extent and yield loss and to monitor agriculture recovery process
- **Products** : Water extent/flood maps (time series, duration), Rice maps, Growth status, Sowing dates,...



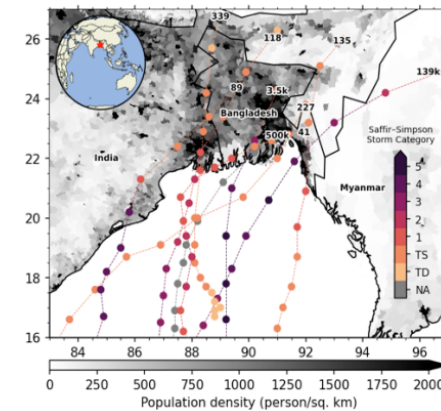
BANDSOS : Bangladesh Delta Floodings. An integrated framework for social adaptation to cyclone surges

▪ Bengal Delta :

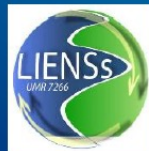
- the broadest tropical delta, across India and Bangladesh
- densely populated (150 M p.)
- Extremely vulnerable to coastal floodings
- 5% of the global cyclones but 75% of global casualties

- **Objectives** : Translate a state-of-the-art **forecasting platform** (including natural hazard and socio-spatial vulnerability) into pre-operational mode and **transfer** it to the Flood Forecasting and Warning Center (FFWC).

- **Start** : April 2022. **Duration** : 24 months.

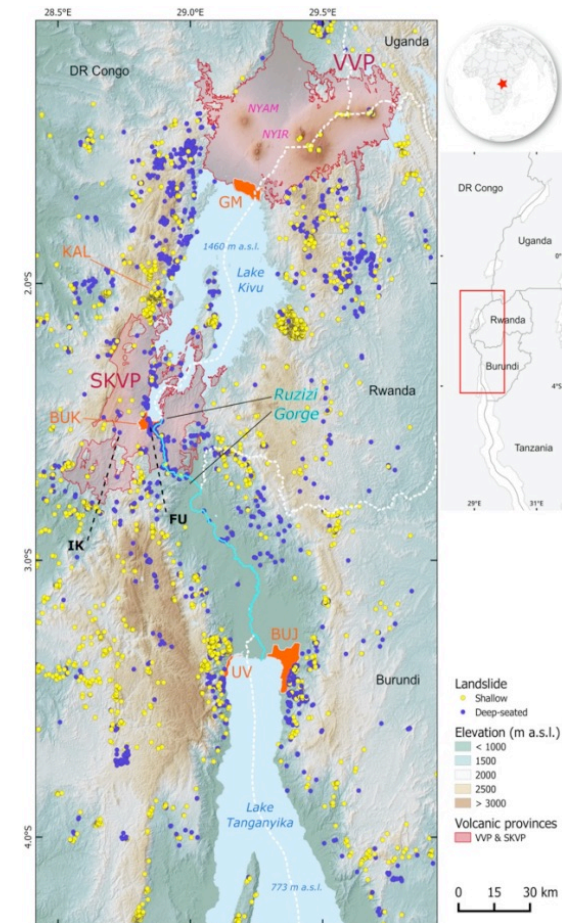


PI: Fabien DURAND (LEGOS, Toulouse, France)
fabien.durand@ird.fr



GeoHaTACC : Geo-Hydrological Hazards triggered by rain in Tropical Africa : A demonstrator for Rwanda to document the effects of Climate Change

- **Objective** : To build exhaustive inventories of Geo-hydrological hazards in **Rwanda** based on Satellite data and Media associated to information on forcing triggering meteorological event (rain)
- **P.I.** : Jean-Philippe Malet, Aline Deprez (Institut Terre et Environnement de Strasbourg/CNRS)
- **Partners** : MINEMA (Ministry of Disaster Management, Meteo Rwanda, Ministry of Environment, Land, Water and Forestry, Rwanda Water and Forest Authority, Centre for Research on Epidemiology of Disasters, UCLouvain, Musée Royale de l’Afrique Centrale)
- **Start** : October 2022. **Duration** : 24 months.



Online activity

www.spaceclimateobservatory.org



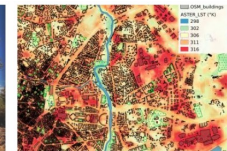
Newsletter: www.spaceclimateobservatory.org/newsletter

Projects: <https://www.spaceclimateobservatory.org/projects>



SCOlive, a very civic-minded observatory

[Read more](#)



Thermocity entrusts its data to Theia

[Read more](#)



ADOPT: full speed ahead!

[Read more](#)



Participate in the 4th Quarterly Meeting of the SCO France

[Read more](#)



8th SCO International Steering Committee

[Read more](#)



Direction Guyana with OpHySE

[Read more](#)



Gade Lapii: top start in Haiti

[Read more](#)



OSS Saint Louis takes stock in 2021

[Read more](#)



6e SCO France meeting: the rails are laid

[Read more](#)



One to one with ADEME

[Read more](#)



European data at the heart of SCO projects

[Read more](#)



Success of the 1st Congress of the SCO France

[Read more](#)