



Philippine Space Agency

Strengthening the Space Value Chain with Copernicus Sentinel Data

Romer Kristi D. Aranas

Information Technology Officer III

High Performance Computing and Information Systems Division

Space Information Infrastructure Bureau (SIIB)

The Philippine Space Agency

Building an integrated and sustainable national space program



Value creation is at the core of the PhilSA mission

We will promote and sustain a robust Philippine space ecosystem that adds and creates value in space for and from Filipinos and for the world.

The Space Data Value Chain



Upstream space infrastructure



Data is accessible and in suitable form



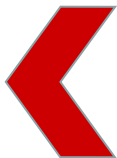
Ground infrastructure for downloading and hosting the data



Capacity to interrogate and analyze the data

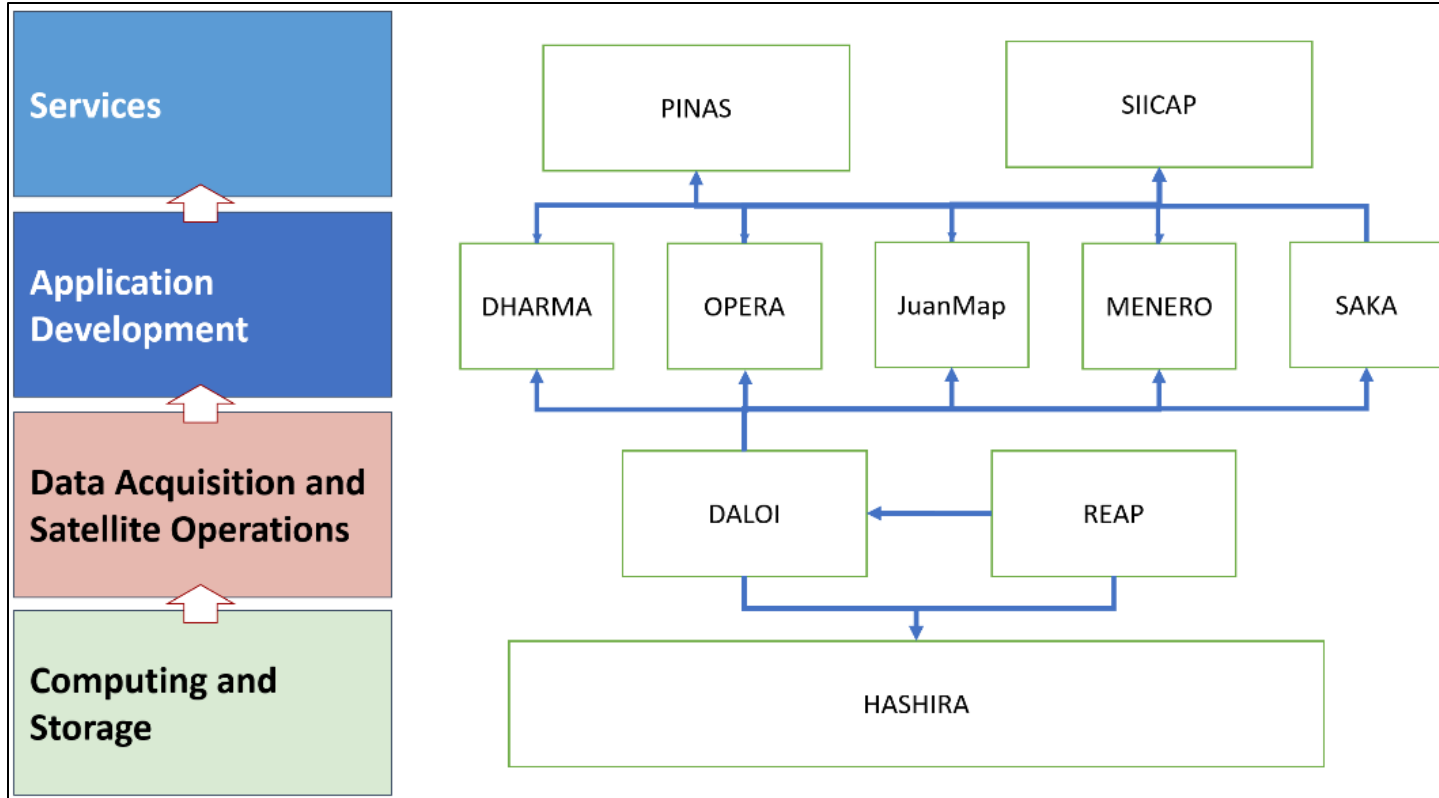


Impetus and resources to act on the data



Socio-economic value and benefit realized

Data Analytics Technologies and Operations Services using Space Data (DATOS)



The DATOS projects addresses every step of value generation for satellite imagery.

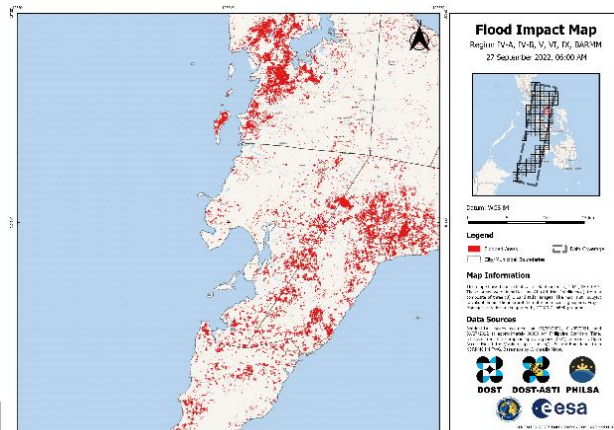
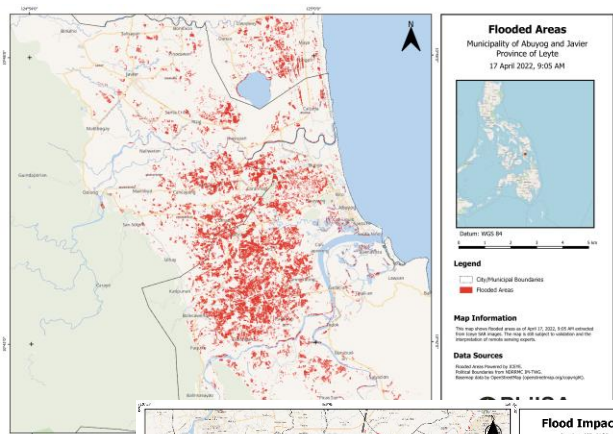
Common Satellite Data Sources in the Philippines

Different satellite data and products are **being mobilized and shared to different stakeholders** for several environmental applications, i.e. utilization of images for disaster response and risk assessment

The infographic is divided into four main sections, each with a title and a brief description:

- Sovereign:** Satellites owned, operated, and tasked by the Philippines. It features two satellite images: Diwata-2 and NovaSAR*.
- Commercial:** Satellites with paid subscription. This section is enclosed in a dashed white border and contains six satellite images: *Komsat-5, *GeoEye-1, *Iceye**, *Komsat-3, 3A, TerraSAR-X, *Dove & *Skysat**, *Worldview-2,3,4, *Pléiades Neo**, and SPOT-6, 7.
- Open:** Satellite images that are free to use and download. It features six satellite images: Terra and Aqua, Landsat-8, 9, Suomi-NPP, Sentinel-1A, 1B, Sentinel-3, and Sentinel-5P.
- Disaster Charter-Activated:** Satellite images shared through the International Charter: Space and Major Disasters for rapid response to major disasters. It features four satellite images: RCM-2**, SAOCOM-1A, Goafen-2, and Kanopus-V.

Flood mapping



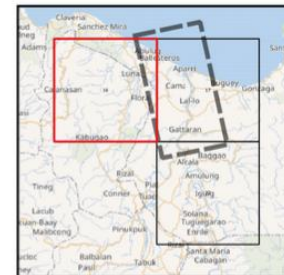
Flood Impact Map
Region V, VII, VIII, IX, X, XII, BARMM
28 October 2022, 06:00 AM



Flood Impact Map

Province of Cagayan

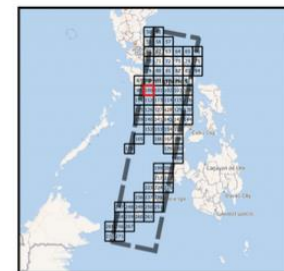
01 November 2022, 01:49 AM



Flood Impact Map

Region IV-A, IV-B, V, VI, IX, BARMM

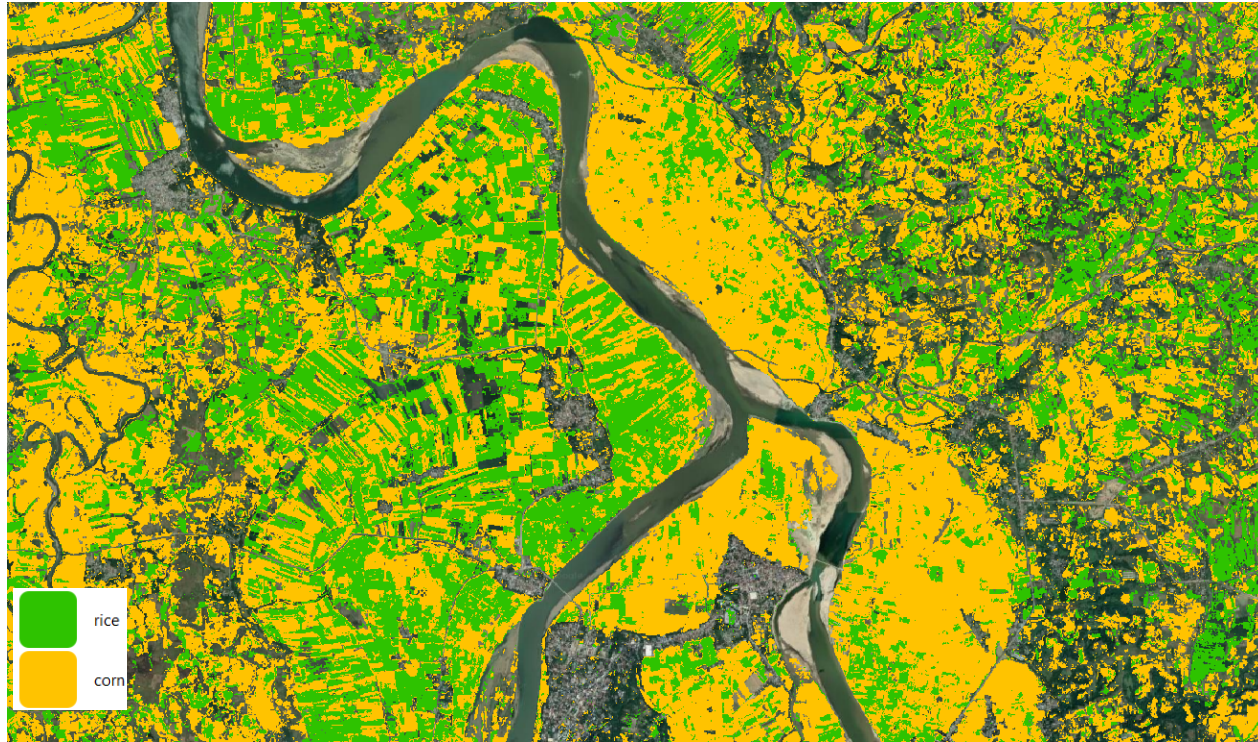
02 November 2022, 06:00 AM



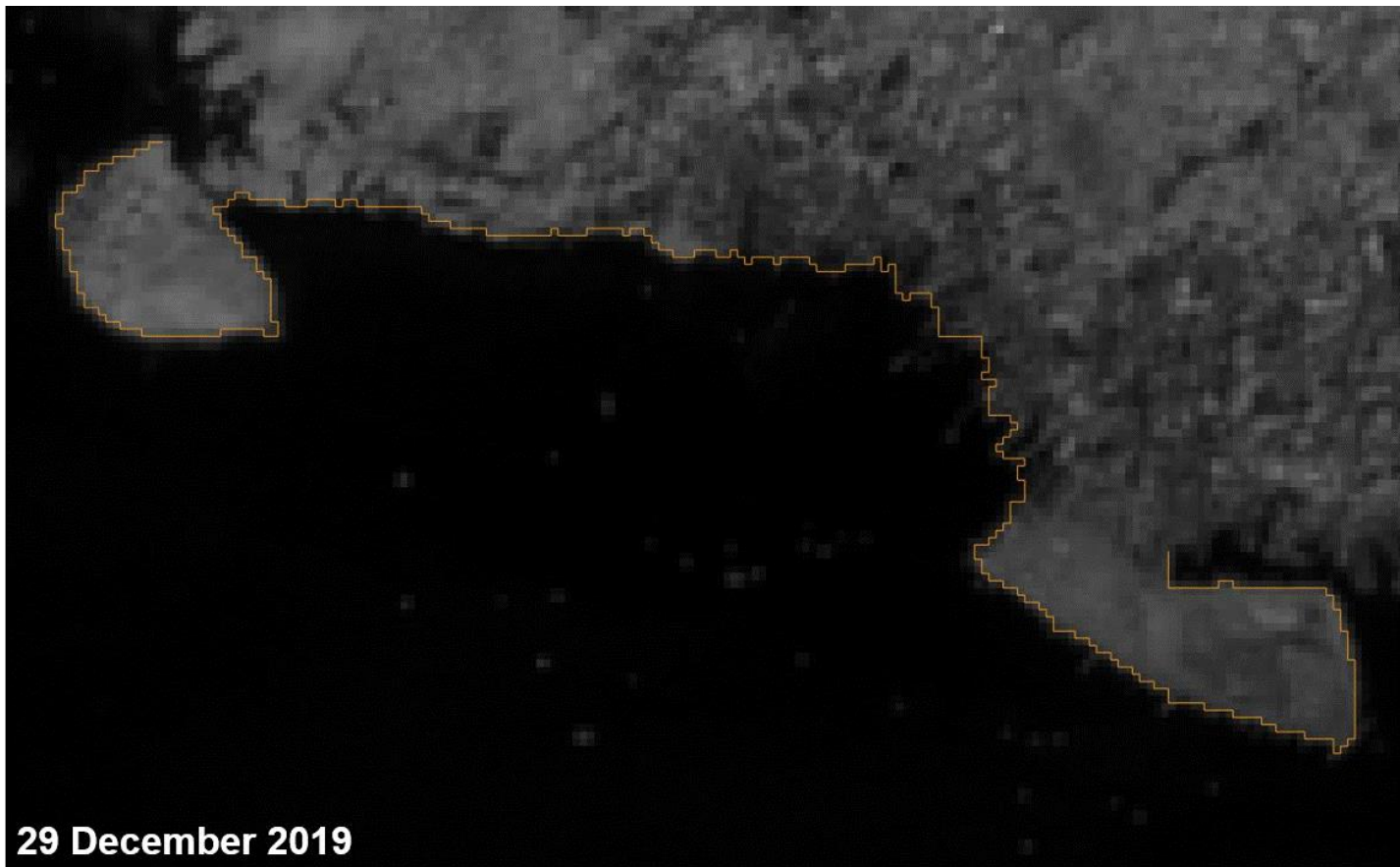
Benthic Habitat Mapping

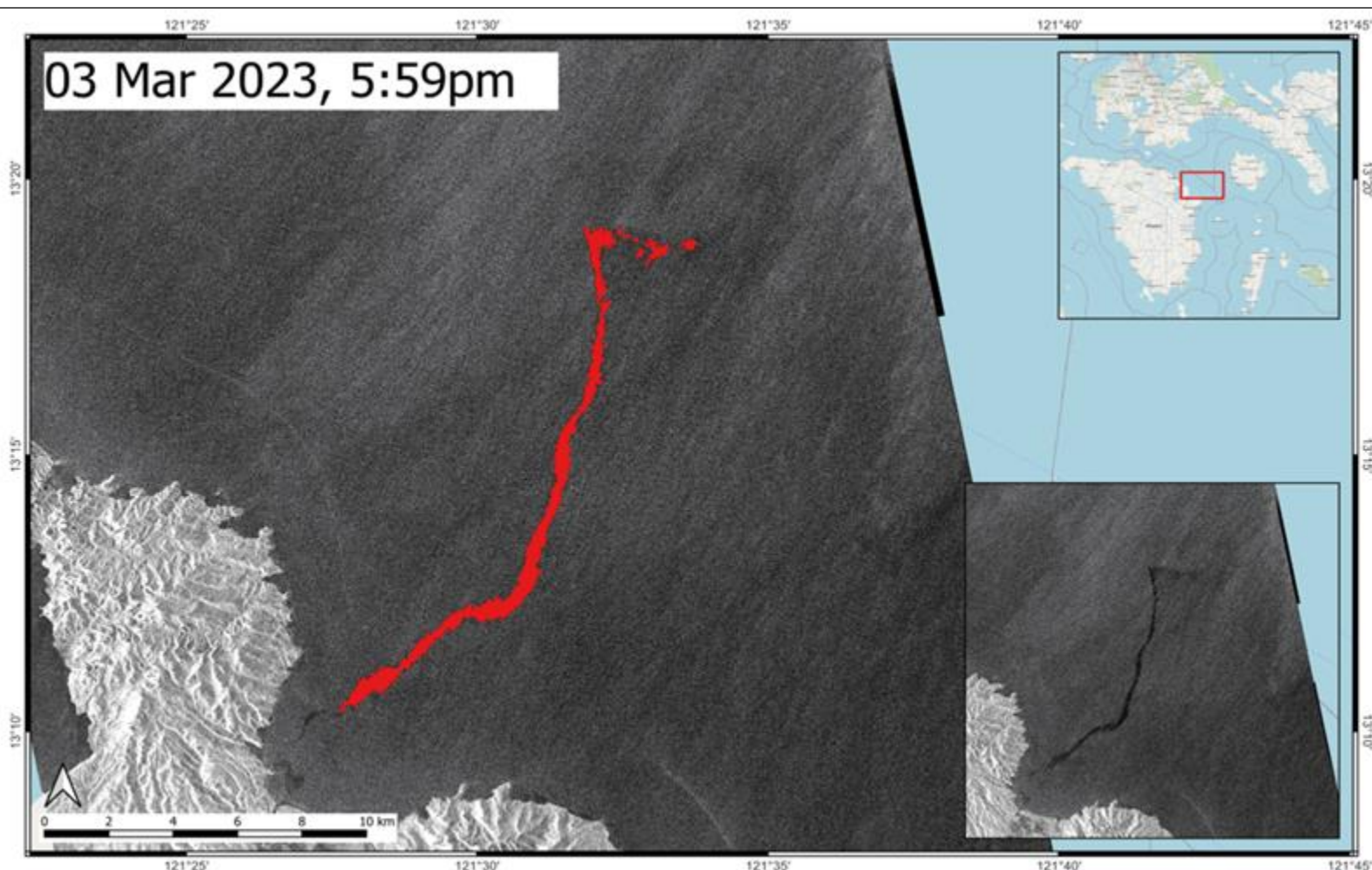


Corn mapping



Coastline change mapping





Marine Pollution Due to Oil Spillage in Oriental Mindoro, Philippines

Data Source: RADARSAT Constellation Mission Imagery © Government of Canada (2023) - RADARSAT is an official mark of the Canadian Space Agency.



Our Place in Space



Vol. 1: Space Data Mobilization

Copernicus Capacity Support Action Programme for the Philippines (CopPhil)

Copernicus - Philippines and EU join forces for better response to natural disasters and climate change

🕒 25.04.2023 📍 Manila 👤 Press and information team of the Delegation to PHILIPPINES

Officials from the Philippine Space Agency, the Department of Science and Technology and the European Union launched today (24 April 2023) the Copernicus Capacity Support Action Programme for the Philippines (CopPhil) worth approximately Php 610 million or €10 million.



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info@philsa.gov.ph