

What is the CopPhil Initiative?

The objective of CopPhil (EU Copernicus Programme in the Philippines) is to strengthen the Philippines' capacity to tackle climate vulnerability and biodiversity conservation while improving hazard management and resilience through the use of free and open Copernicus Earth Observation data. It includes the establishment of a Copernicus Mirror Site and IT infrastructure, the co-development of Earth Observation pilot services in three thematic areas, and knowledge and skills transfer activities related to the use of Copernicus data and information.

CopPhil is managed by the **European Union Delegation to the Philippines**. It is implemented by the **European Space Agency (ESA)** in partnership with the **Philippines Space Agency (PhilSA)** and the **Philippine Department of Science and Technology (DOST)**.

What is Copernicus?

Copernicus is the Earth Observation component of the European Union's Space Programme. It provides free and openly accessible information and services which draw from satellite and in situ (non-space) data. The information provided by Copernicus supports public authorities, industrial and small and medium sized enterprise (SME) service providers, and international organisations.

How does CopPhil fit into the EU Global Gateway Strategy?

CopPhil is a unique flagship programme of the European Union's Global Gateway, an EU strategy which aims to strengthen health, education, and research systems around the world through sustainable investments and partnerships. The Global Gateway is aligned with the United Nations' Agenda 2030, the Sustainable Development Goals, and the Paris Agreement.

The CopPhil initiative is designed to harness digital resources and space technology for sustainable development while supporting research and business innovations, thereby aligning with the Global Gateway vision.

What are the CopPhil Pilot Services?

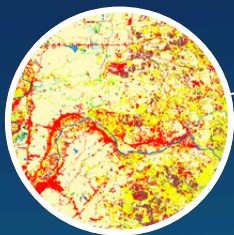
The CopPhil Earth Observation-based pilot services harness Copernicus data across three thematic areas. The services are co-developed with local stakeholders, who will continue to operate them after the end of the pilot demonstration phase. The service products result from stakeholder consultations focused on addressing the region's specific needs and priorities, and will be tested and validated through various practical use cases.

Land Cover, Forest & Crop Mapping Service

Land cover, forest, and crop mapping are crucial for environmental management, resource planning, and biodiversity conservation. These services will focus on three types of mapping products: **crop layers**, **forest layers**, and other **land cover layers**, based on processing time series of Synthetic Aperture Radar and optical images acquired by Copernicus Sentinel-1 and Sentinel-2 satellites.

The products will provide accurate and detailed information on the type of land use as well as on the changes over time in the Philippines. This capability will support local authorities, farmers, and environmental managers in making informed decisions, promoting sustainable land use, improving agricultural productivity, and ensuring effective forest management across the region.

Land Cover



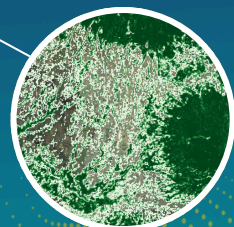
Land cover map of the confluence of the Pampanga and Pañaranda rivers

Crop mapping



Selected crop type mapping near Bongabon, Central Luzon using Sen4Stat

Forest mapping



Tree cover density product example in the Philippines Region XIII (Caraga).



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