

Linking space to user needs

EU Space data: Innovations for sustainable tourism

Nereus Webinar: Space Data for Sustainable Tourism with Emphasis on Water - EUSPA/Cassini initiative and activities related to tourism and water

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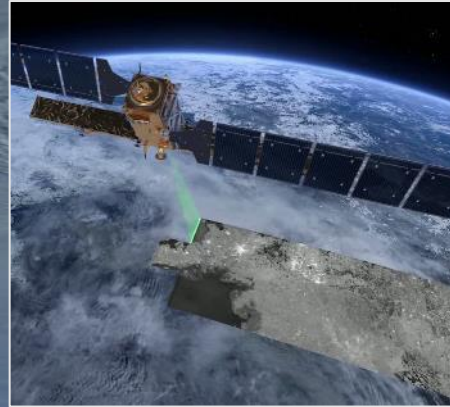
EU Space for a resilient society



Galileo



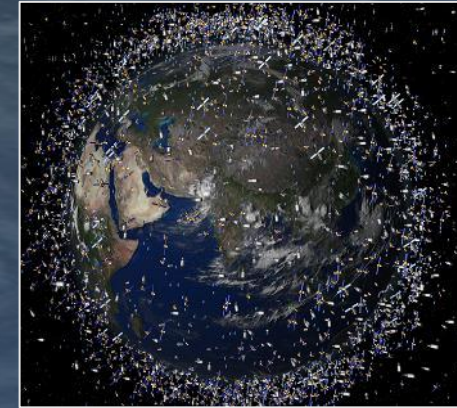
EGNOS



Copernicus



**GOVSATCOM,
IRIS²**



SST

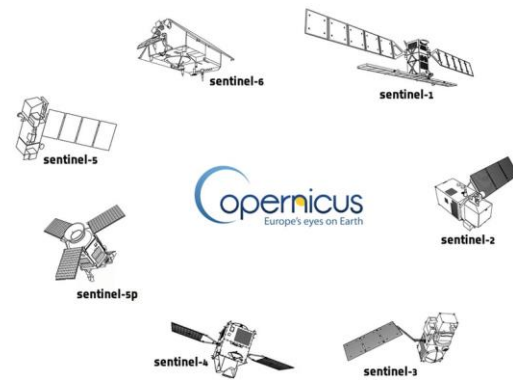
Climate resilience: EU Space data support the implementation of the **European Green Deal**

Report with **examples** how to use space data across industries to **improve sustainability**

Copernicus for **tourism environmental impact assessment** helps tourist and hospitality sites with planning & prevention



EU's Earth observation programme
providing **free** and **open** data to all users around the world.

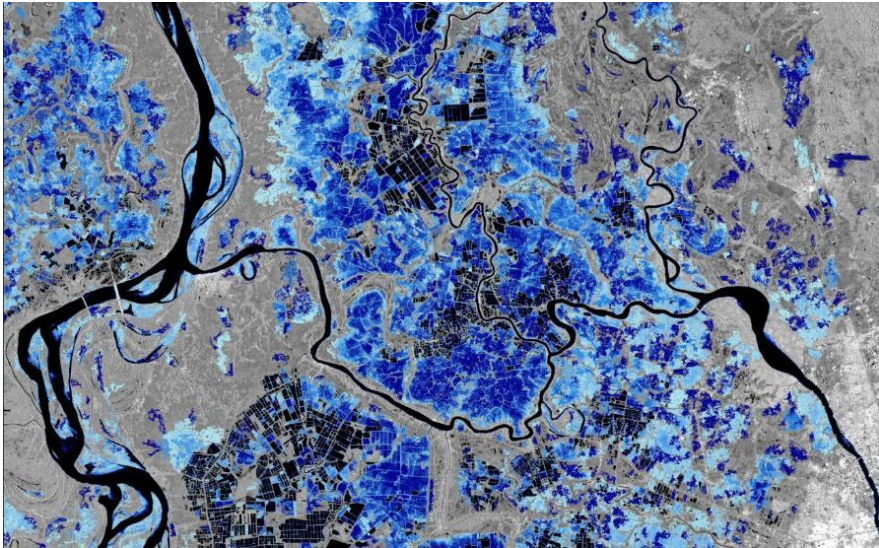


Sustainable tourism



Nr.1 world provider of space data and information

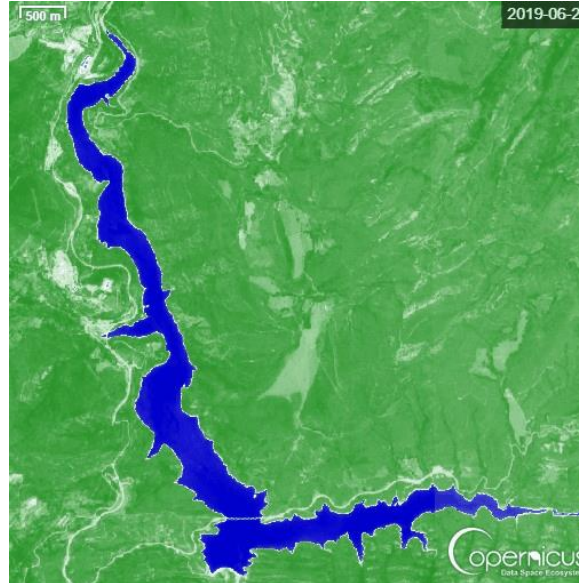
Copernicus for water monitoring I.



Sentinel 1

Water detection
(all weather, day/night)

[Source: ESA](#)



Sentinel 2

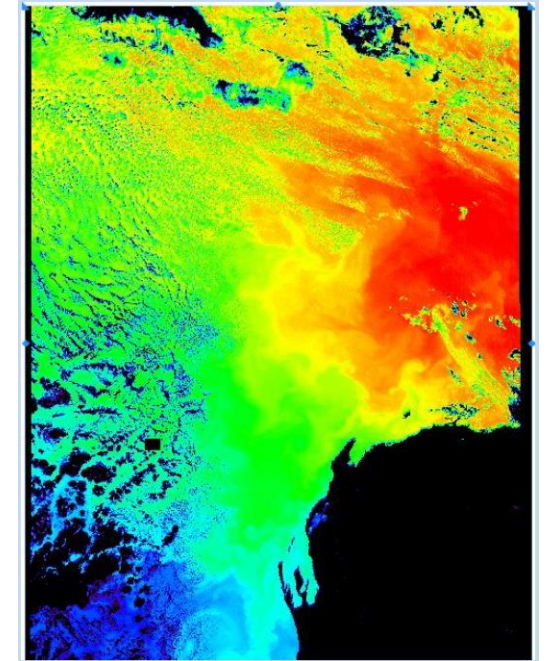
Inland and coastal water
quality monitoring

Water extent

Shorelines

Bathymetry

[Source: Copernicus Browser](#)



Sentinel 3

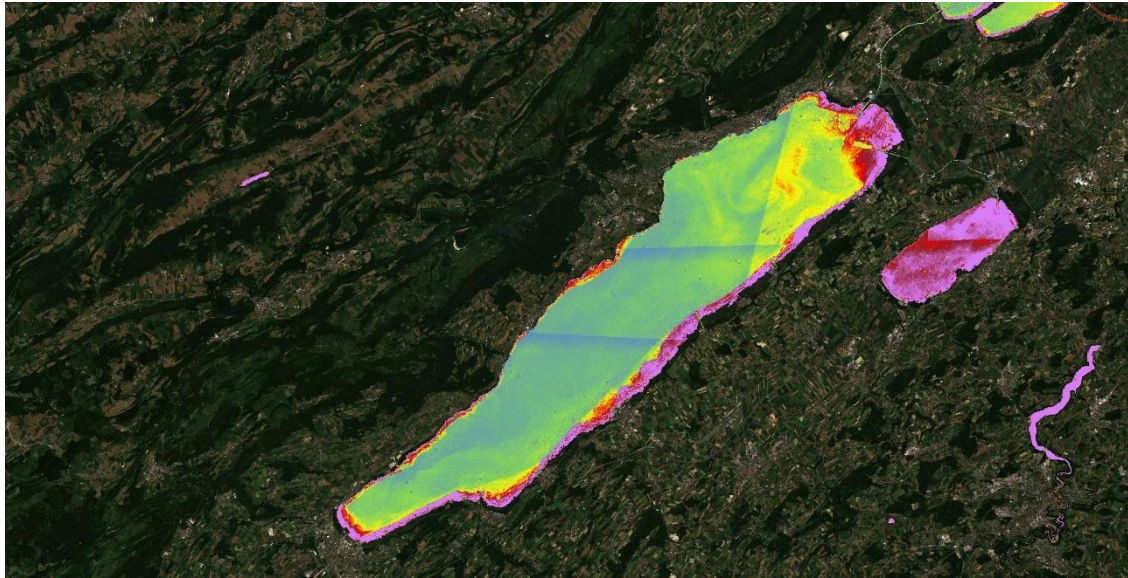
Land and water surface
temperature

Sea Water Quality

Water Level

[Source: EUMETSAT](#)

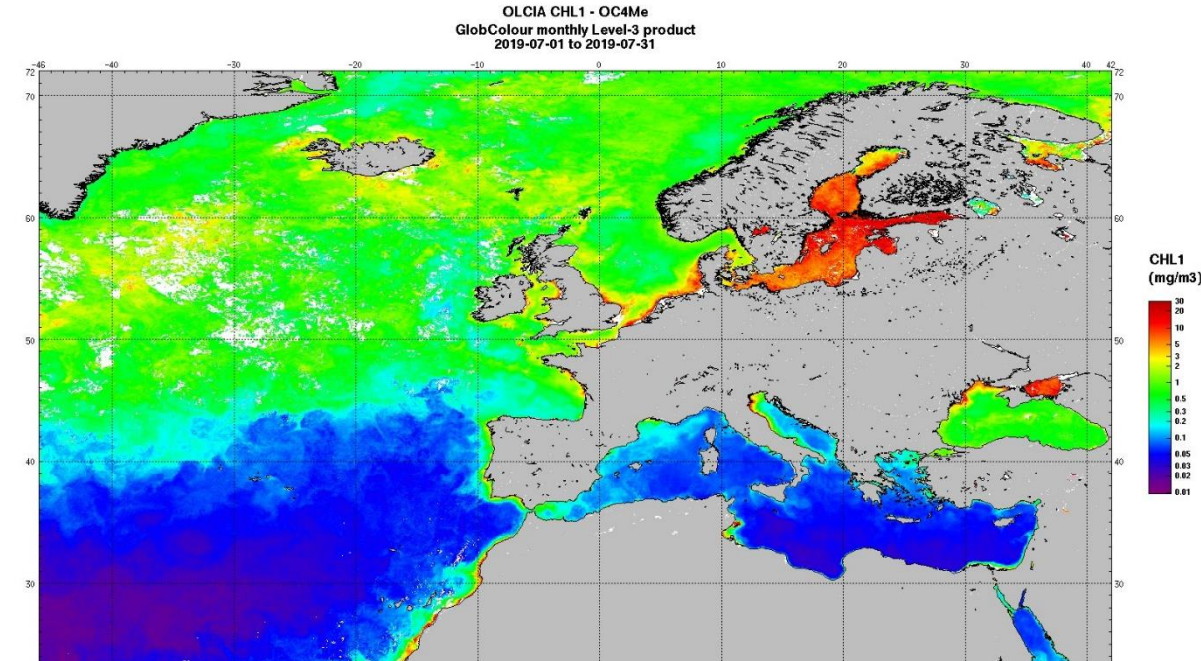
Copernicus for water monitoring II.



Sentinel 2

Chlorophyll in the Neuchatel Lake

[Source: Sentinel Hub](#)

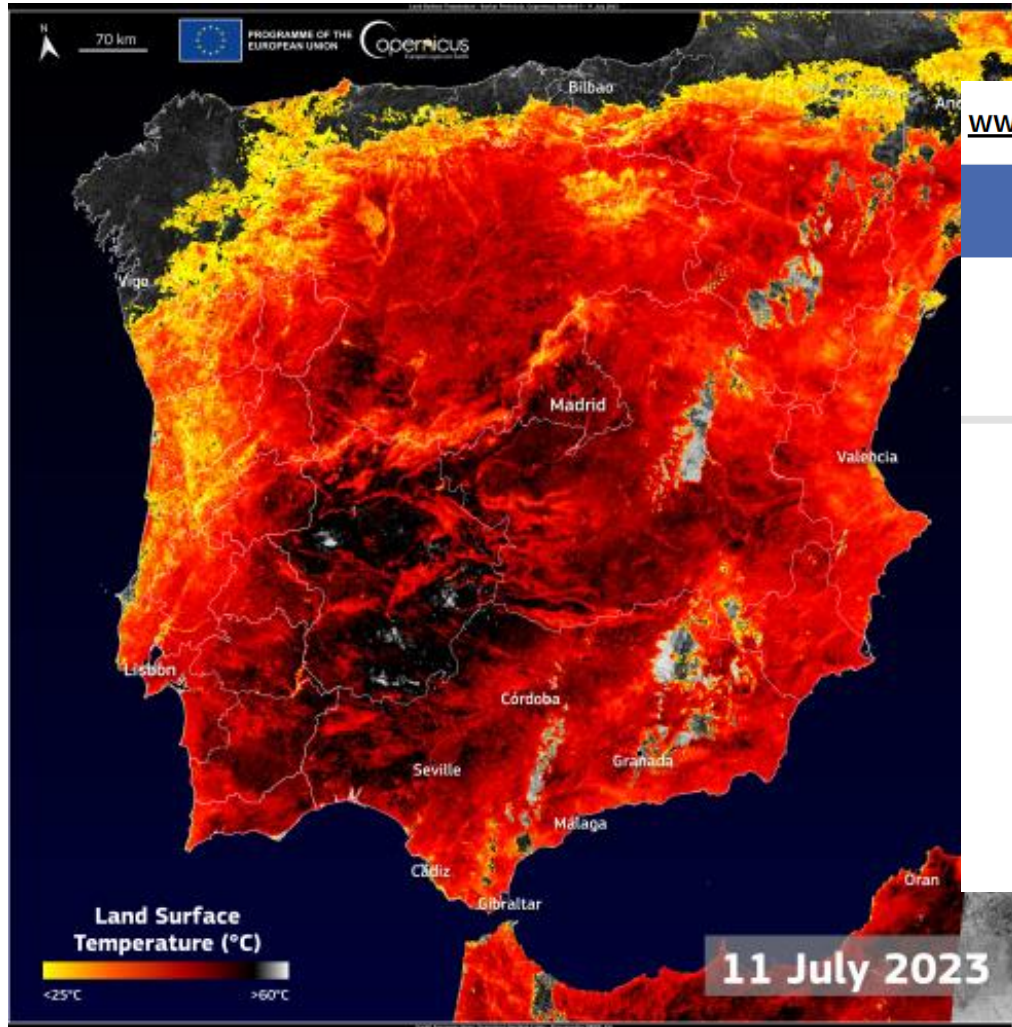


Sentinel 3

Monthly chlorophyll

[Source: Copernicus.eu](#)

Copernicus for drought monitoring



Source: Copernicus.eu

www.barcelona.cat

Search on barcelona.cat... English

Drought warning: Exceptional warning stage of the drought protocol activated.

Barcelona

LIVING IN BCN

GETTING THERE

WORK AND BUSINESS

WHAT TO DO IN BCN

Home / What to do in BCN / Bathing and beaches

Barceloneta beach

i Showers and foot washers out of service at all beaches to save water during the drought.

Current state of the beach

NO INFORMATION AVAILABLE

NO INFORMATION AVA

Latest update: 16/05/2024 22:00 - SMC Spanish State's Ports

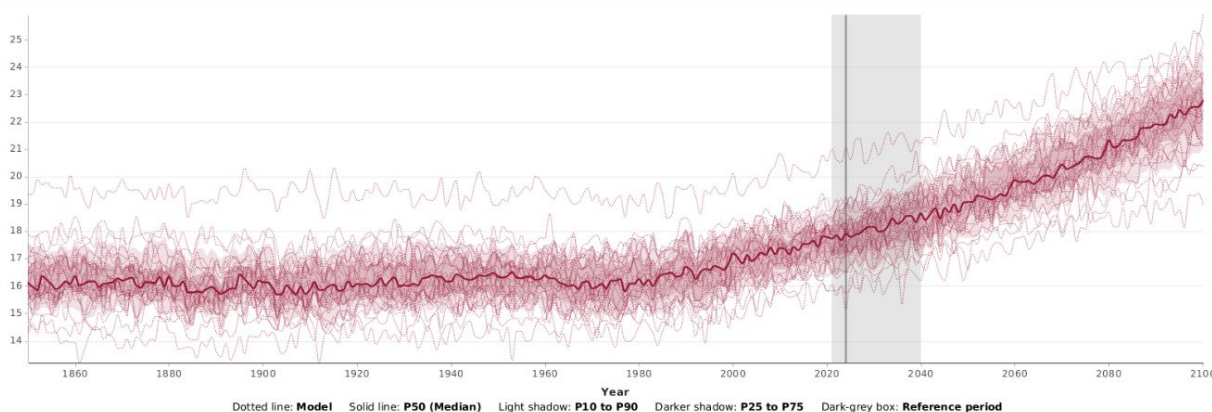
May 2024

Copernicus forecasts

- **Explore climatology data (forecast)**: Annual temperatures are rising, and precipitation is decreasing in the mediterranean region.

MEAN TEMPERATURE (°C) - CMIP6 - CLIMATOLOGY - SSP5-8.5 -
NEAR TERM (2021-2040) - ANNUAL FOR MEDITERRANEAN

Credit: C3S/ECMWF

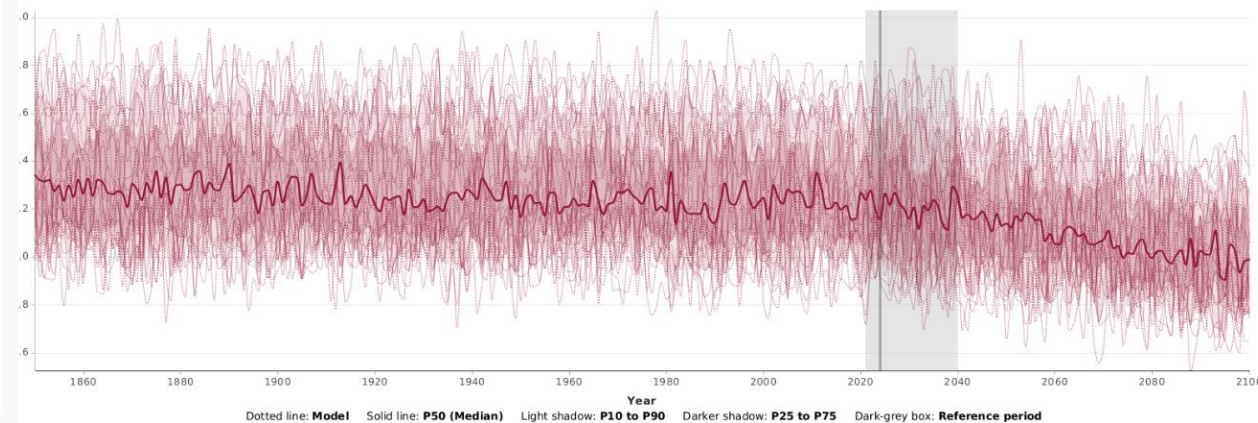


PROGRAMME OF
THE EUROPEAN UNION



MEAN OF DAILY ACCUMULATED PRECIPITATION (MM/DAY) - CMIP6
- CLIMATOLOGY - SSP5-8.5 - NEAR TERM (2021-2040) - ANNUAL
FOR MEDITERRANEAN

Credit: C3S/ECMWF

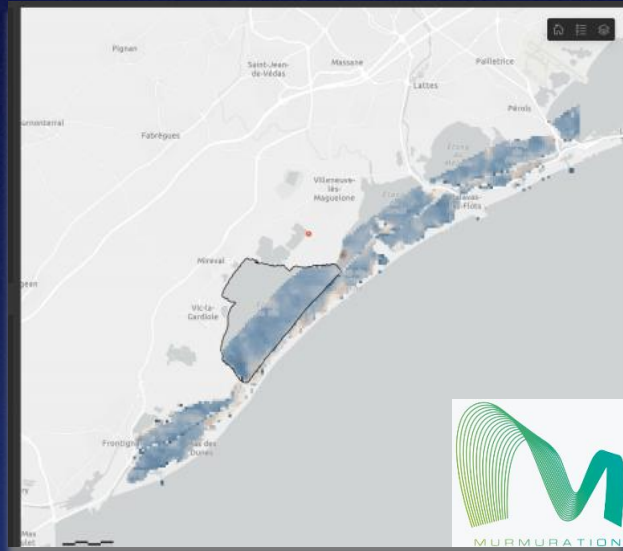


PROGRAMME OF
THE EUROPEAN UNION



Tools for innovation, market development & user uptake

Demonstrator projects
(*PoC Digital Tourism and Cultural Heritage*)



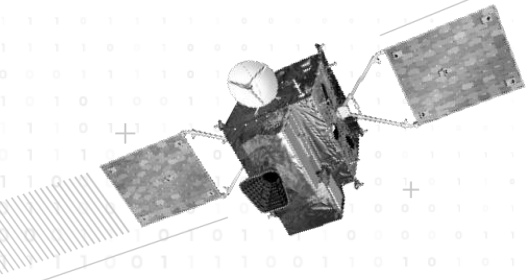
User Consultation
Platform (UCP)



EU Commission's
Cassini Initiative



The CASSINI actions support each stage of the space entrepreneurship journey



CASSINI



Ideas

CASSINI

Hackathons & Mentoring

The **CASSINI Hackathons** foster new ideas for digital applications leveraging EU Space Data



Solutions

CASSINI

Challenges

The **CASSINI Challenges** competition boosts the development of innovative solutions



Capabilities

CASSINI

Business Accelerator

The **CASSINI Accelerator** shapes companies' capability to achieve sustained growth



Relationships

CASSINI

Matchmaking

The **CASSINI Matchmaking** connects start-ups with corporates & investors



Investments

CASSINI

Facility

CASSINI Growth Facility simplifies access to risk capital for EU space companies



Gather & interact

CASSINI

Entrepreneurship Days

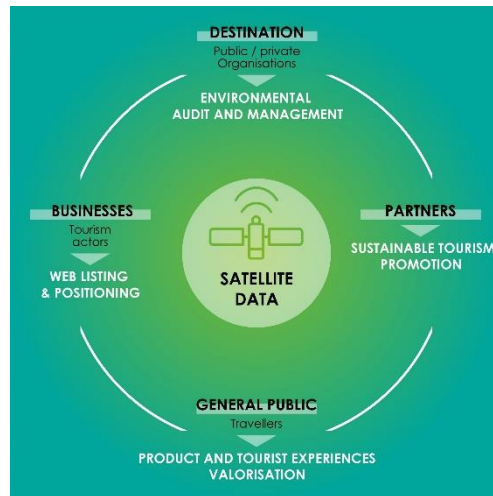
The **CASSINI Entrepreneurship Days (3-4 June, Prague)** bring together the CASSINI ecosystem every year

+ many other start-up & cross industry events across Europe

Cassini examples I.

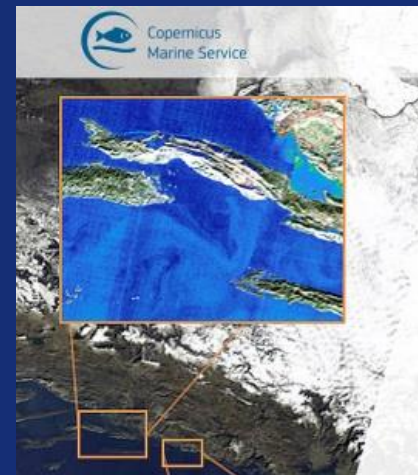
Murmuration (FR)

Enviro data & decision-making for tourism



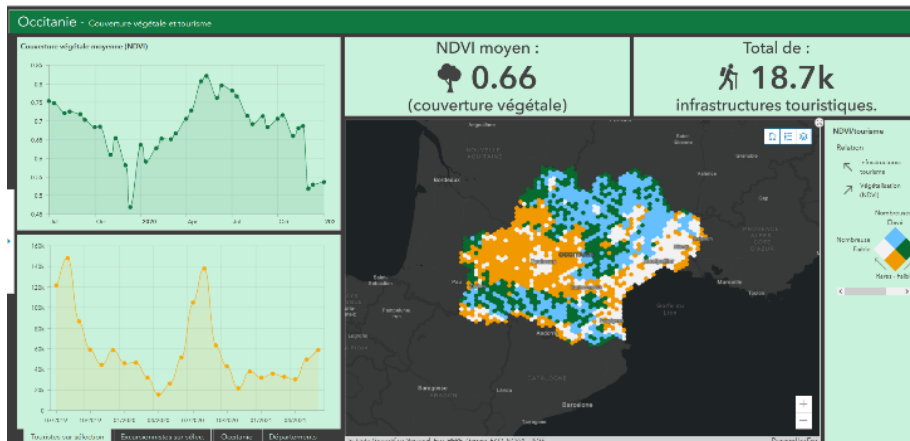
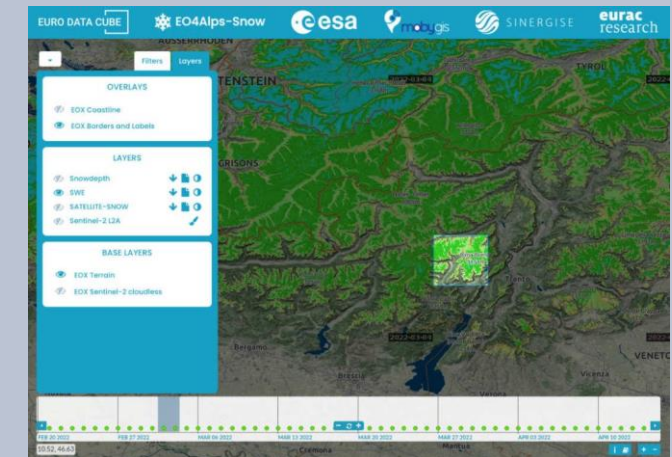
SeaCras (HR)

Monitoring of coastal waters



Waterjade (IT)

Snow monitoring



Cassini examples II.

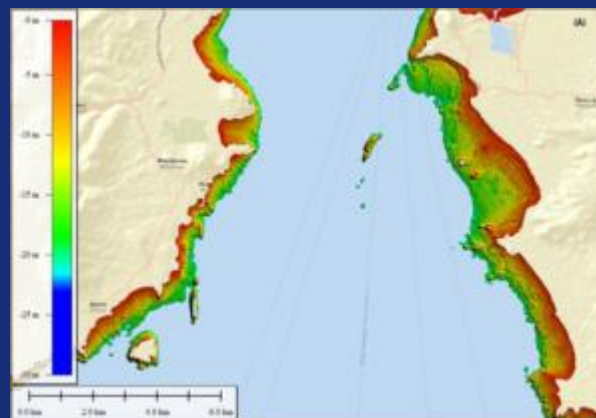
e2o.green (HR)

Optimisation of resources for golf courses



EOMAP (DE)

Mapping and monitoring aquatic environments.



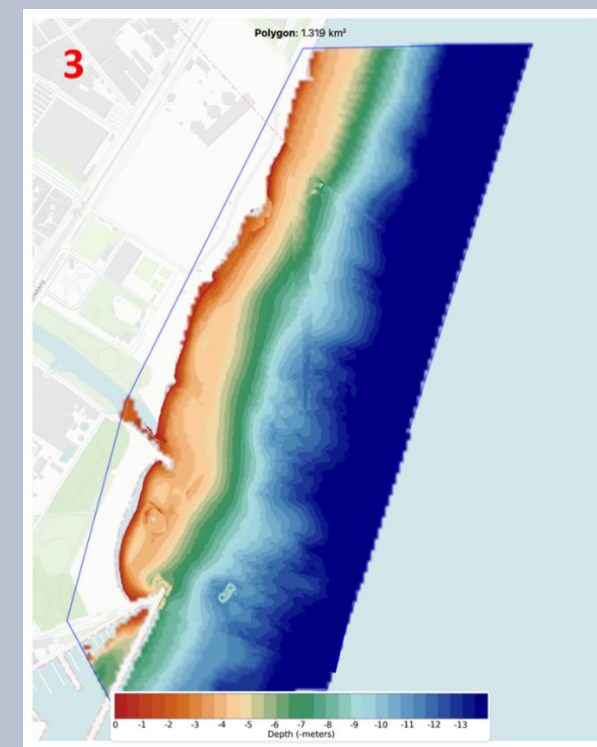
GAROTES by Spascat (ES)

Detailed coastline monitoring.



GAROTES

Galileo Active Remote-bathymetry
Observation Enabled by Sentinel



Linking space to the needs of tourism stakeholders

WATCH THIS SPACE

your #EUSpace update



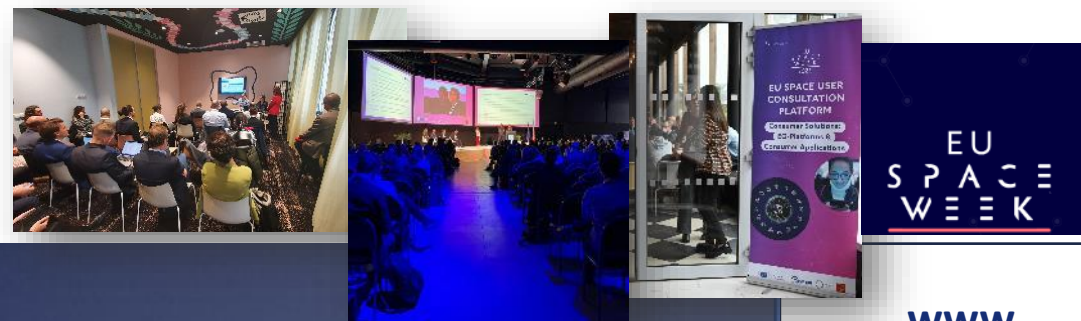
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Cassini.eu – opportunities for startups



EC/EUSPA User Consultation Platform



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#EUSpace 