

Flood Insights vs. Copernicus EMS

for European emergency response

In the rapidly evolving field of flood monitoring and disaster response, timely and accurate information is crucial. This comparison highlights the key differences between the flood data generated by ICEYE's Flood Insights and Copernicus EMS.

ICEYE ADVANTAGES

Faster response

The in-house operational forecasting and acquisition capabilities at ICEYE deliver near real-time data and enable faster response activities for end-users. Instead of submitting tasking requests, the “always on” service provides automated activation and capture of flood events. ICEYE provides the **extent and depth of flooding** no later than 24 hours after activation of the service.

Unmatched coverage

With 48 satellites launched so far, the ICEYE constellation provides multiple daily revisits to any location globally, ensuring efficient capture of flood impacts. This, combined with evidence from other data-driven sources, enables rapid and comprehensive flood monitoring. Flood Insights captures flood data at the full scale of a flood event including hundreds of acquisitions and data sources in analysis.

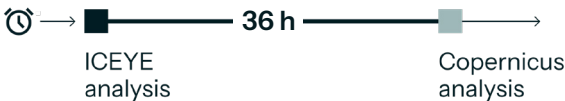
Higher confidence

Governments can reduce reliance on costly government airborne assets, streamline damage assessments, and deliver assistance more effectively by utilizing ICEYE's evidence-based Flood Insights. The inclusion of open-source observations further amplifies the confidence in our analyses. A more comprehensive picture of the impacts gives agencies the ability to respond decisively.

EUROPEAN FLOOD ANALYTICS

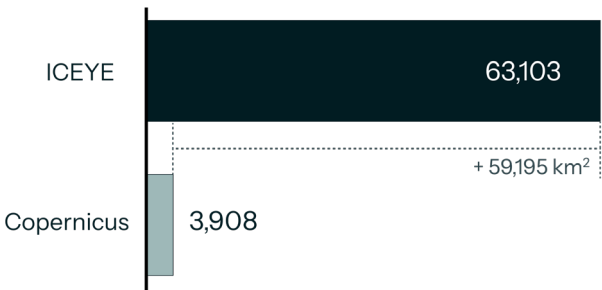
ICEYE delivered insights 36 hours earlier

On average, compared to Copernicus (for the last 10 storms dated on or before March 2025)



Flood extent covered in Europe

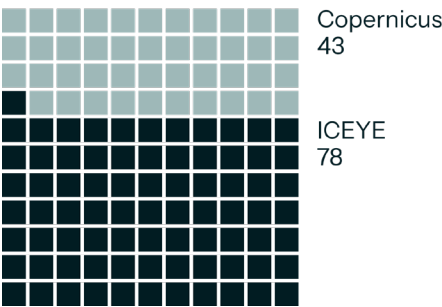
from the past 3 years*, km²



* 7 Copernicus entries missing ** For countries that ICEYE covers

ICEYE vs. Copernicus events analyzed in Europe

from the past 3 years**

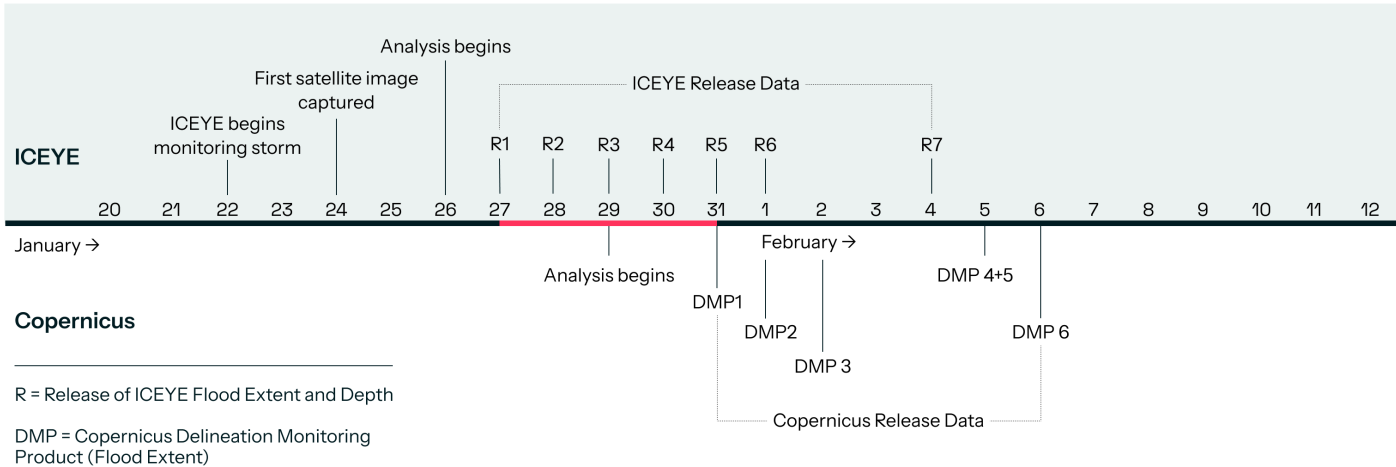


Examples where ICEYE accelerated decision-making

ICEYE vs. Copernicus timeline comparison

Time between the first product releases from ICEYE and Copernicus

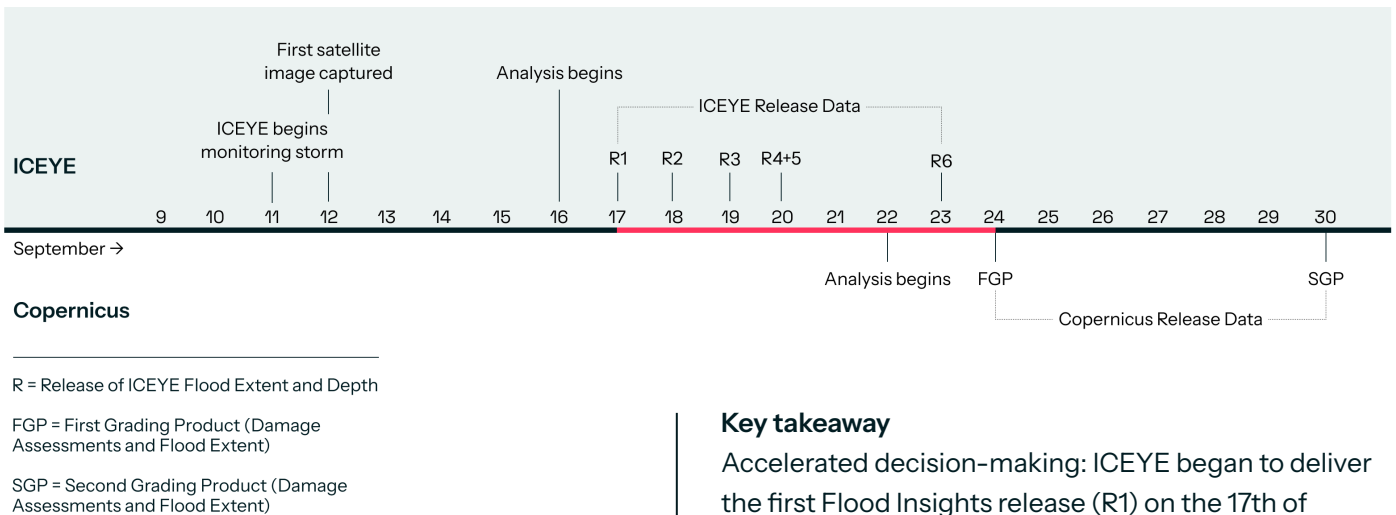
France: Storm Éowyn and Storm Herminia, 2025



Key takeaway

Accelerated decision-making: ICEYE began to deliver the first Flood Insights release (R1) on the 27th of January, which was four days before Copernicus provided their first data release on January 31st.

Austria: Storm Boris, 2024



Key takeaway

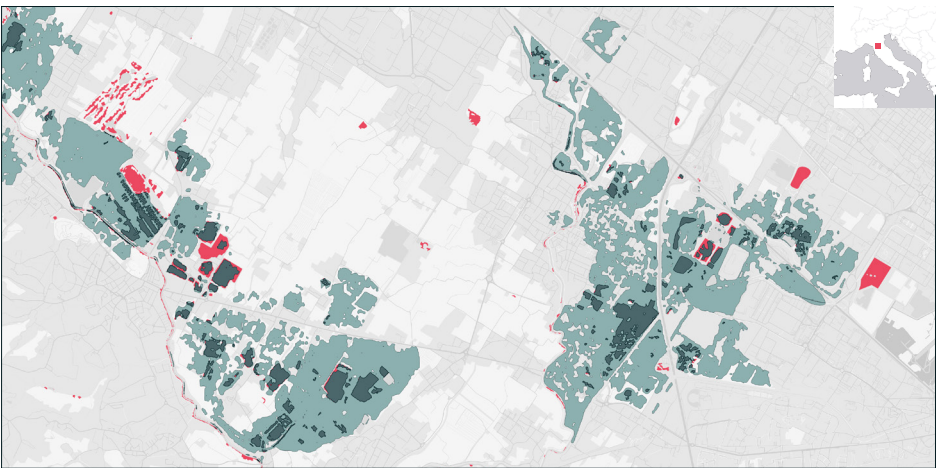
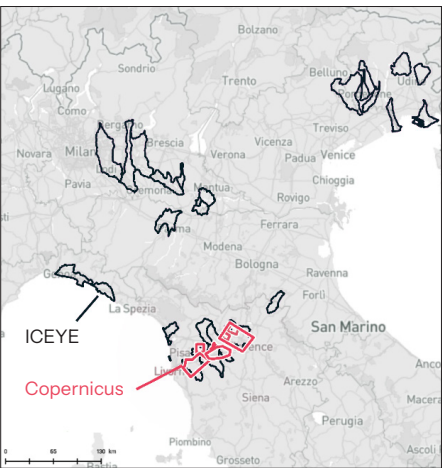
Accelerated decision-making: ICEYE began to deliver the first Flood Insights release (R1) on the 17th of September, which was seven days before Copernicus released their first data release on 24 September.

Examples of ICEYE’s unmatched coverage and precision

Italy: Storm Ciaran, 2023

ICEYE vs. Copernicus coverage comparison

ICEYE Area of Interest Copernicus Aol

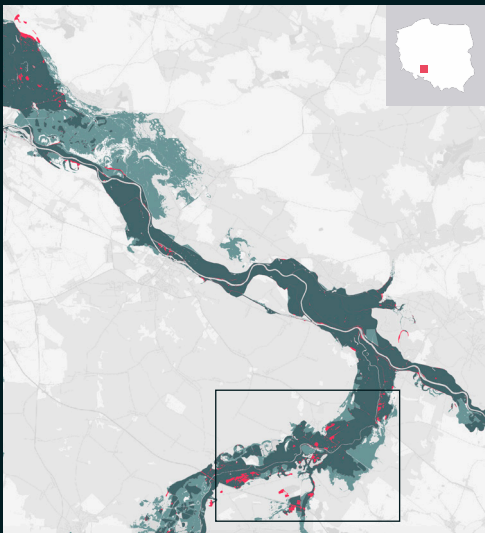
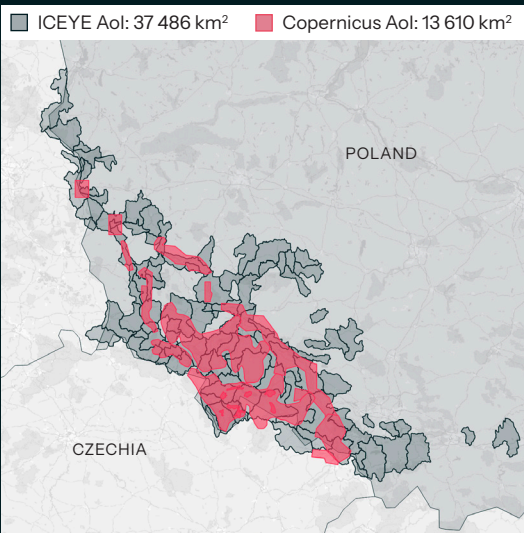


Key takeaway ICEYE analysed 7 000 km² of flood extent whereas Copernicus only analysed 1 045 km². ICEYE captures areas of interest of flooding on a country scale versus being restricted to a limited, preset coverage area from Copernicus. ICEYE handles the burden of determining areas of interest so that the end user does not have to.

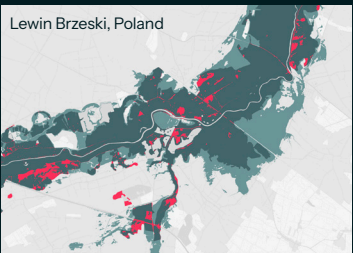
Poland: Storm Boris, 2024

ICEYE vs. Copernicus coverage comparison

ICEYE Aol: 37 486 km² Copernicus Aol: 13 610 km²



ICEYE flood extent	991 km ²
Intersecting flood extent	370 km ²
Copernicus flood extent	403 km ²



Key takeaway ICEYE analysed 37 486 km² of flood extent whereas Copernicus only analysed 13 610 km².