





Credits: Contains modified Sentinel-1 and Sentinel-2 mission data (2020-2024) orocessed by CIMA Foundation at CopernicusLAC Specialized Processing Environment







## Hydrometeorological Hazards Services

## **Flood Extent Mapping**

The FEM service estimates the cumulative extent of flood traces using both Sentinel-1 and Sentinel-2 over a period around a flood event start date, provided in the form of classified raster (flooded, not flooded, permanent water body). The service is developed by CIMA Foundation and WASDI Sarl.

## **Flood Depth Mapping**

The FLDM service provides the maximum water Depth per pixel for a specific flood extent map. The service is co-developed by LIST and CIMA Foundation



Figure 2 – Flood Depth map after dam break in Colombia (2024)

Find more about the Hydrometeorological Hazard services of the CopernicusLAC Platform at:

https://coplac-hydromet-hazards.readthedocs.io/



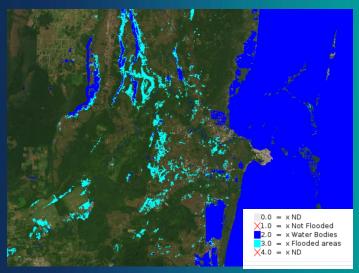
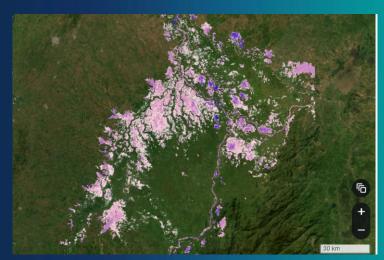


Figure 1 – Flood Extent map over Belize after Hurricanes Eta and Iota (2020)

## **Flood Frequency Mapping**

The FFM service estimates a series of flood records for a user defined period, providing flood extent maps and the associated flood frequency map.



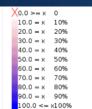


Figure 3 — Flood Frequency map after dam break in Colombia (2024)

