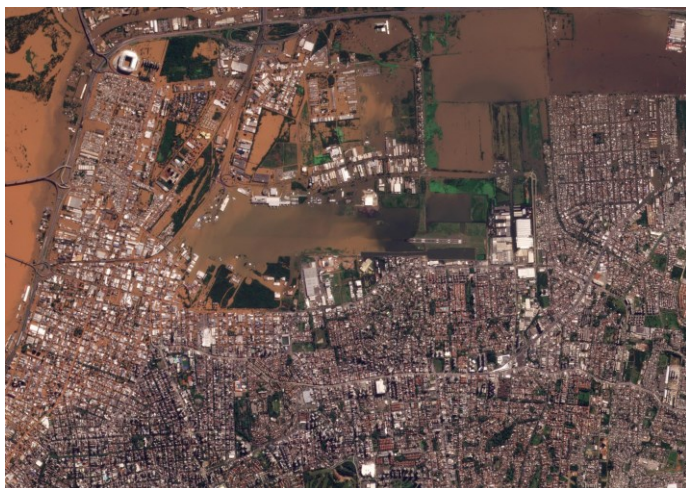
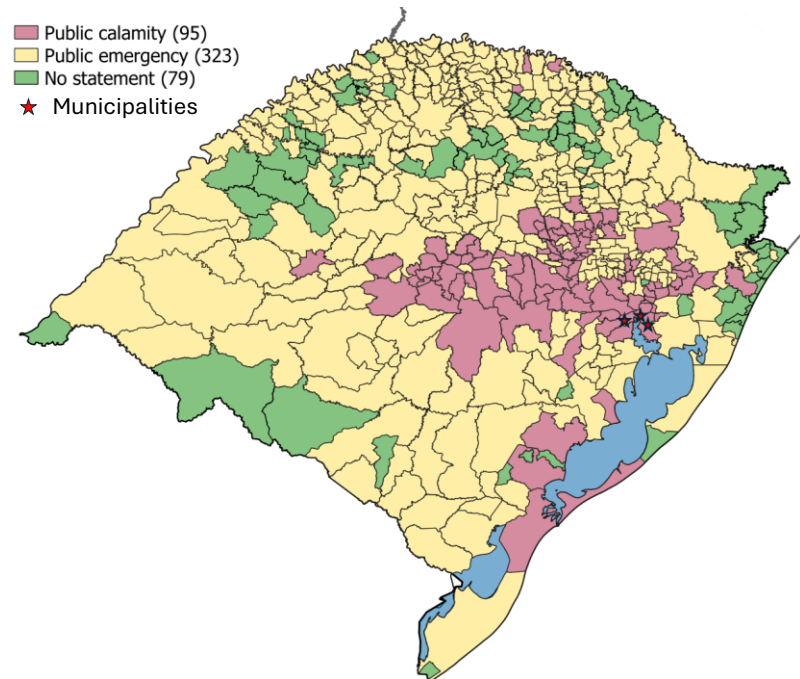
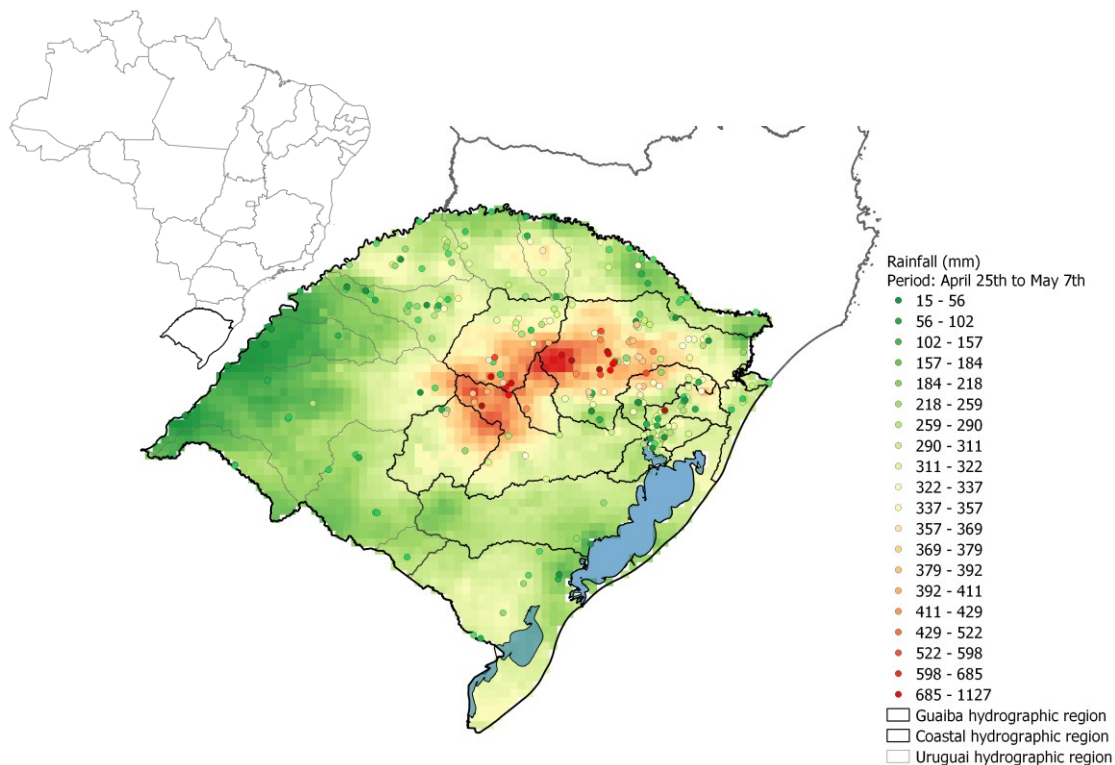


FLOOD FORECASTING AND MAPPING OF 2024 EXTREME EVENT IN RIO GRANDE DO SUL, BRAZIL USING GLOFAS STREAMFLOW FORECASTING

LARISSA ANTUNES, ADRIANA CUARTAS AND MARCIO MORAES

In May 2024, extreme rainfall caused a major disaster in Rio Grande do Sul



Porto Alegre-RS (06/05/2024)



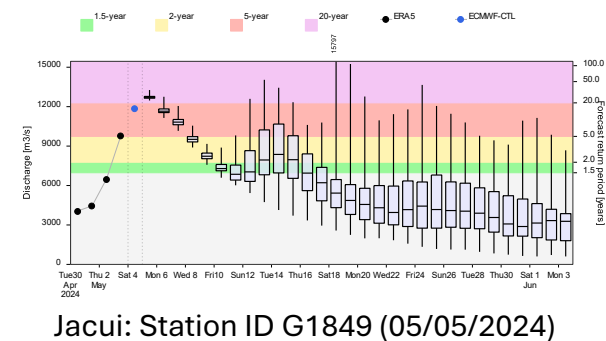
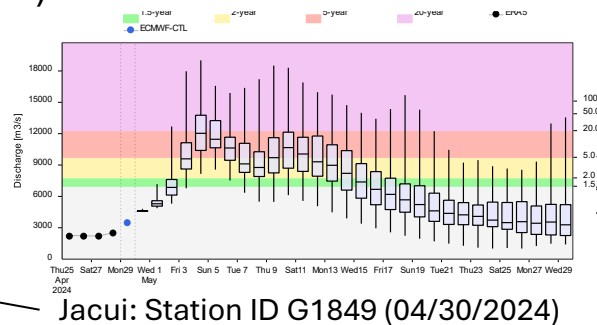
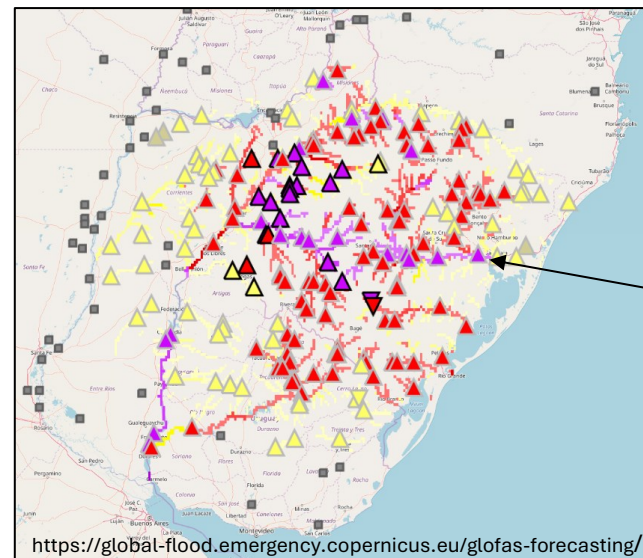
Canoas-RS (06/05/2024)



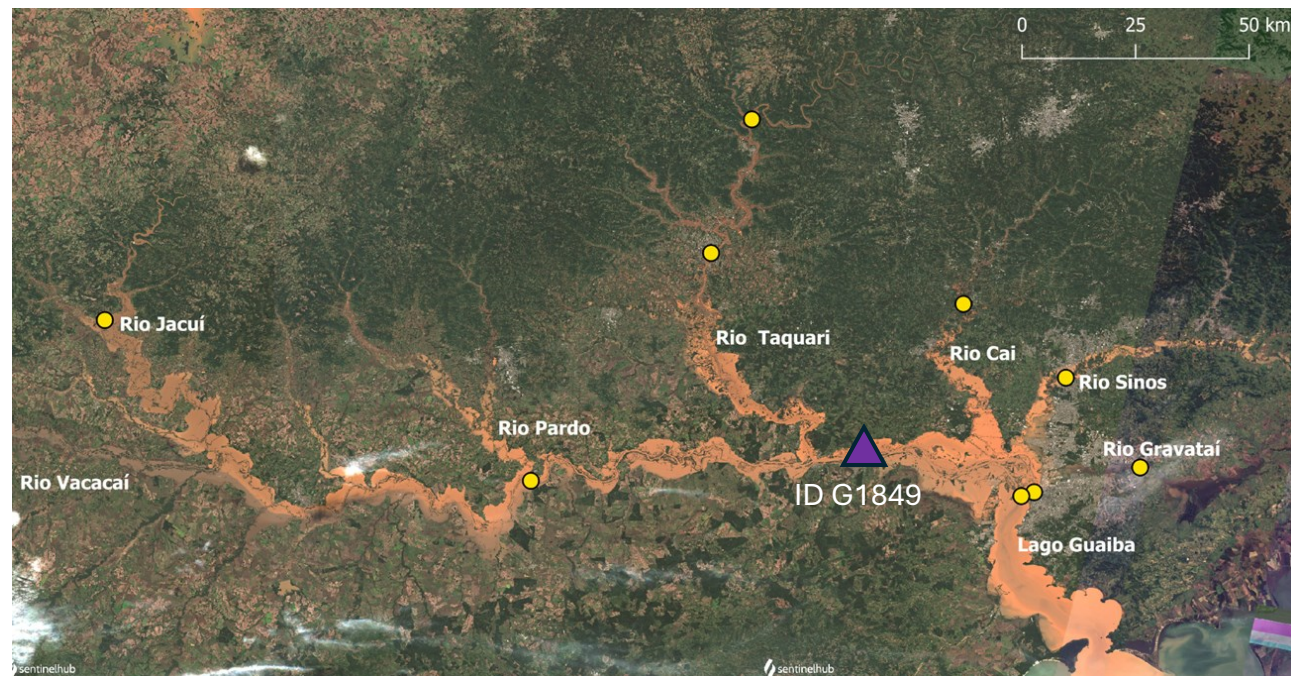
Eldorado do Sul-RS (06/05/2024)

Flood mapping using the peak flow from the GloFAS Reporting Point

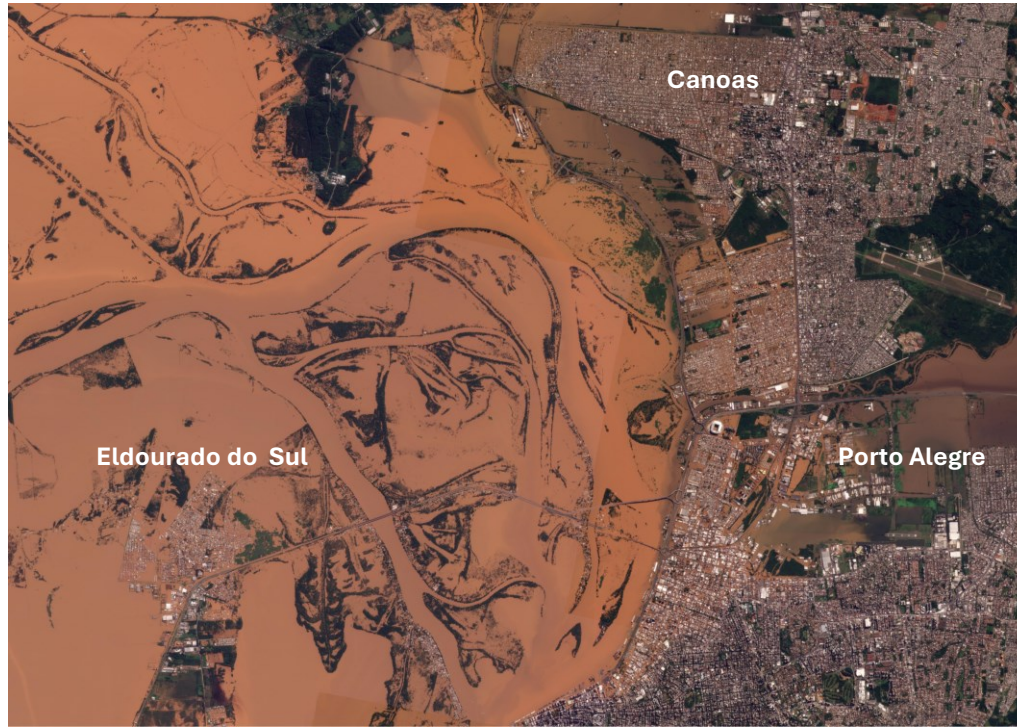
GloFAS Reporting Points (04/30/2024)



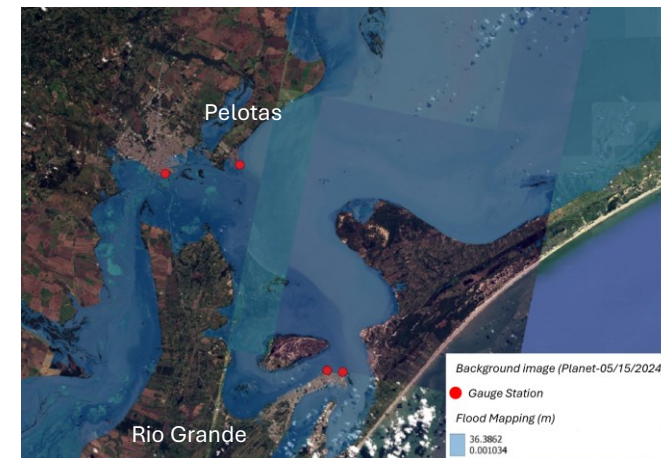
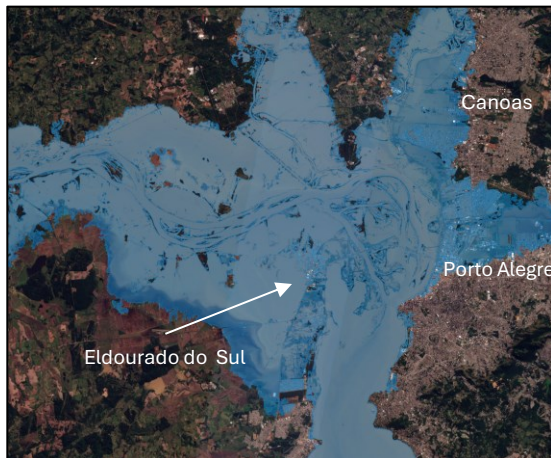
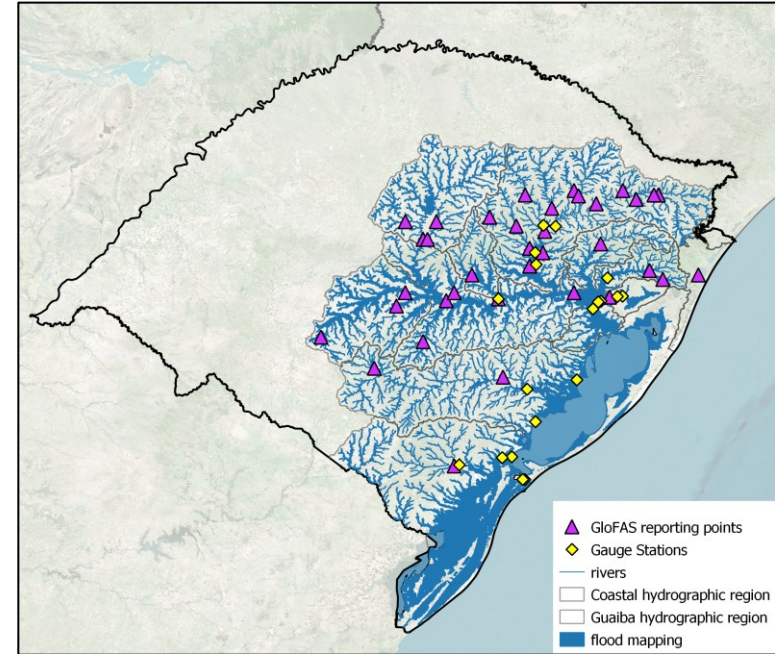
Guaiba hydrographic region 05/06/2024 (Sentinel-3/Planet)



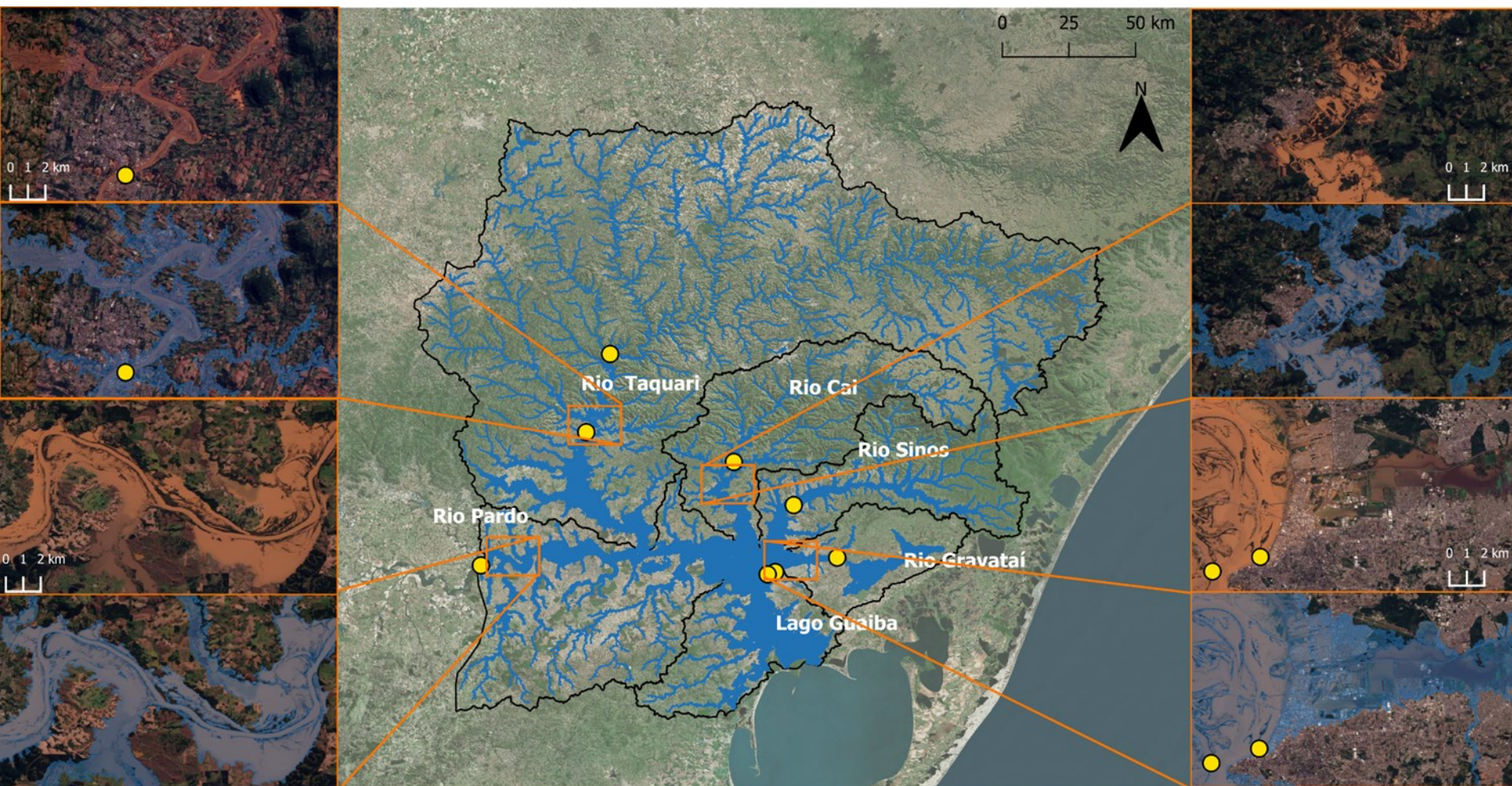
Planet Image (06/05/2024)



Flood mapping for flood peak from Abril 30th to May 6th

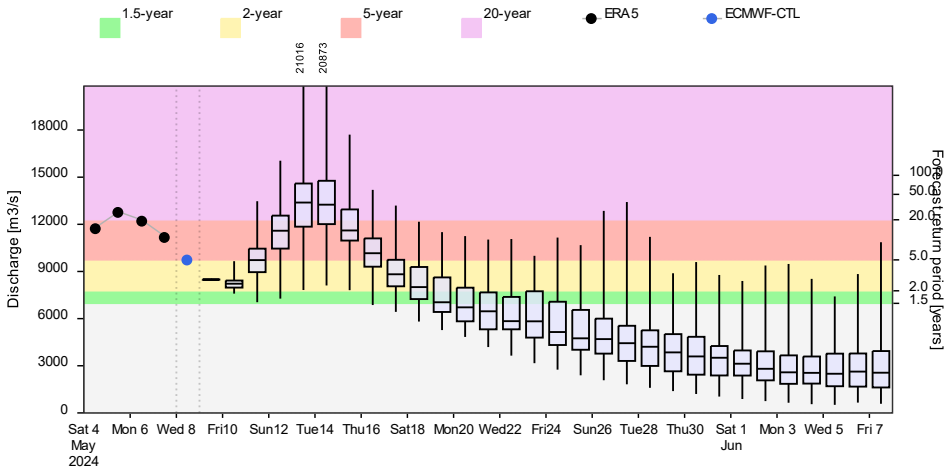


Flood extent was evaluate using images with resolution of 3 meters from Planet Satellite and 10 meters from Sentinel-2 (06/0/2024) (REDE Brasil M.A.I.S. Program)

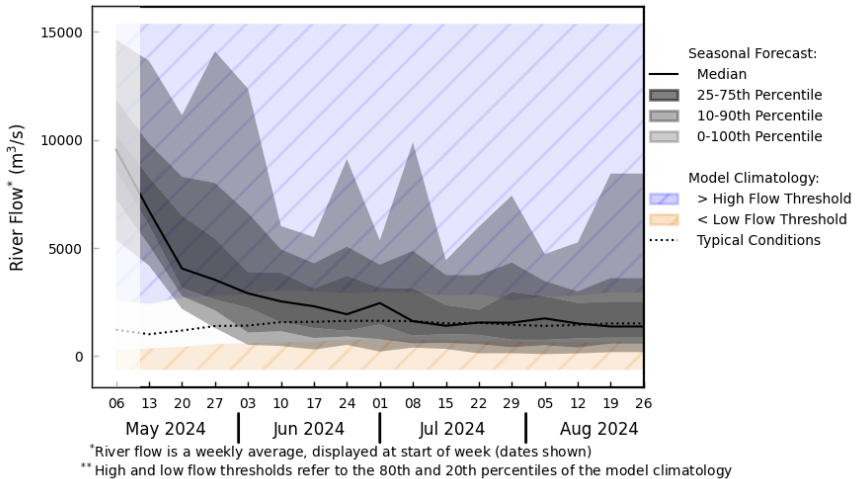


Flood extent – Planet (05/05/2024) ● Gauge Stations □ Sub basin ■ Flood mapping

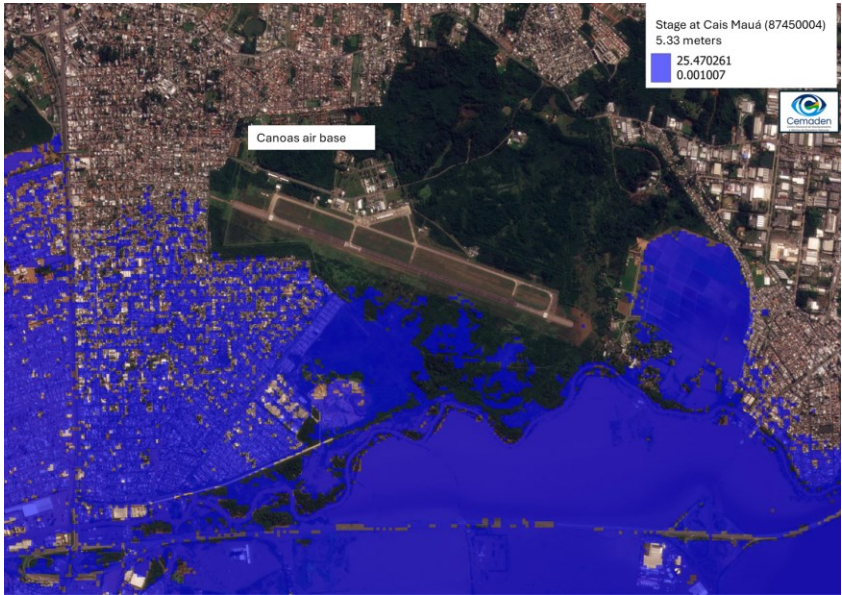
Jacui: Station ID G1849 (05/09/2024)



Jacui: Point Number 2779



Flood peak mapping (06/05/2025)



Canoas Air Base flood level (5.8 meters)

