Respon Tanggap Darurat Bencana Berbasis Data Satelit

Space-based Disaster Emergency Response

BANJIR

Provinsi Aceh, Indonesia

C6

Flood

Aceh Province, Indonesia

N

5 10 km

1:200,000

Map scale for A3

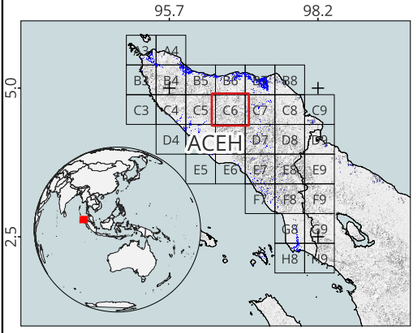
CRS: WGS84 (EPSG:4326)

Legenda:

- Batas kabupaten / *District border*
- Danau / *Lake*
- Estimasi area terdampak banjir / *Estimated flooded area*
- Jaringan jalan primer / *Primary road*
- Jaringan jalan / *Road*

Sumber Data:
Data source:

1. Batas administrasi dari Badan Informasi Geospasial
   Administrative boundary courtesy of Geospatial Information Agency (BIG)
2. Sentinel-1 level GRD Polarisasi VV dan Copernicus DEM dari European Space Agency (ESA)
   Sentinel-1 SAR GRD data (VV polarization) and Copernicus DEM Courtesy of the European Space Agency (ESA)



Deskripsi:
Estimasi genangan banjir dilakukan dengan menganalisis perubahan nilai backscatter (ΔdB) pada citra SAR Sentinel-1 sebelum (15 November 2025) dan sesudah kejadian (27 November 2025). Penurunan backscatter yang melampaui ambang batas yang ditetapkan, diidentifikasi sebagai genangan banjir. Hasil estimasi masih memerlukan validasi lapangan

Description:
Flood inundation was estimated by analyzing changes in backscatter (ΔdB) in Sentinel-1 SAR imagery acquired before (15 November 2025) and after the event (27 November 2025). A decrease in backscatter exceeding the predefined threshold was classified as flooded area. Estimated flood still needed to be verified further

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