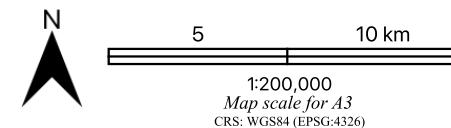


Respon Tanggap Darurat  
Bencana Berbasis Data Satelit  
Space-based Disaster Emergency Response

**BANJIR**  
Provinsi Aceh, Indonesia

C3

**Flood**  
Aceh Province, Indonesia

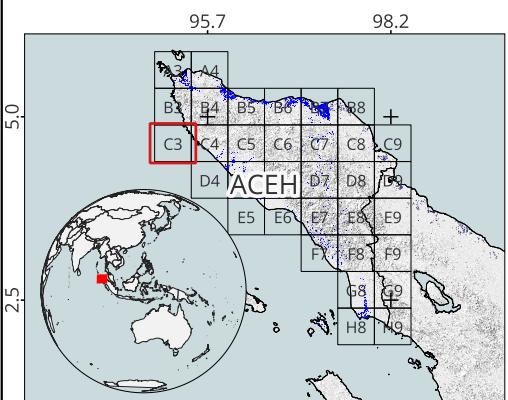


**Legenda:**

- 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 Polarisi 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 ( $\Delta dB$ ) 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 ( $\Delta dB$ ) 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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