

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

**BANJIR**

Provinsi Aceh, Indonesia

A4

**Flood**

Aceh Province, Indonesia



5 10 km

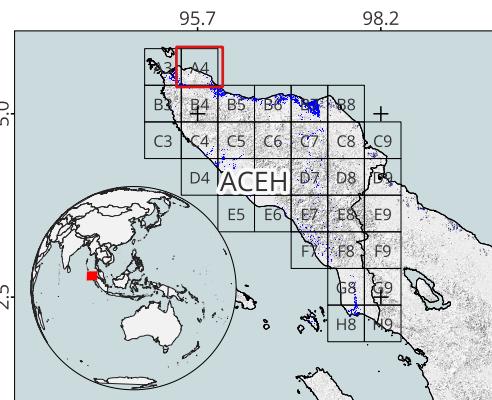
1:200,000  
 Map scale for A3  
 CRS: WGS84 (EPSG:4326)

Legenda:

District border		Jaringan jalan primer	
Danau		Jaringan jalan	
Estimated flooded area		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 Polarasi VV dan Copernicus DEM  
*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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