

95.53

95.73

95.93

KAB. ACEH JAYA

KAB. ACEH BARAT

95.53

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# Respon Tanggap Darurat

## Bencana Berbasis Data Satelit

Space-based Disaster Emergency Response

**BANJIR**

Provinsi Aceh, Indonesia

**D4****Flood**

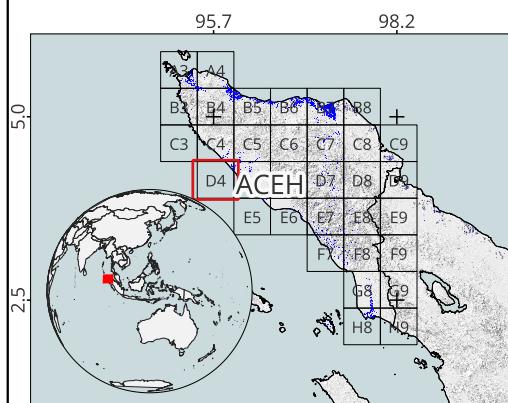
Aceh Province, Indonesia



5 10 km

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

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

**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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- Center for Data and Information, BRIN  
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Contact: Yenni Vetrina Ph.D (yenn004@brin.go.id)



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