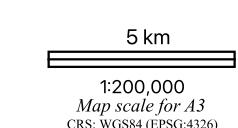


## Respon Tanggap Darurat Bencana Berbasis Data Satelit Space-based Disaster Emergency Response

**BANJIR**  
Sijunjung,Solok,Dharmasraya,Solok Selatan  
Provinsi Sumatera Barat, Indonesia

**Flood**  
Sijunjung, Solok, Dharmasraya, Solok Selatan  
West Sumatra Province, Indonesia

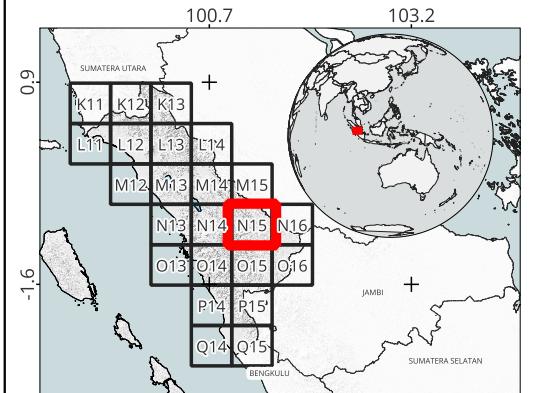


Legenda:

- 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. Jaringan jalan dan nama tempat dari Open Street Map  
Road networks and nameplace courtesy of the Open Street Map (OSM)



Deskripsi:  
Estimasi genangan banjir dilakukan dengan menganalisis perubahan nilai backscatter ( $\Delta d$ ) pada citra SAR Sentinel-1 sebelum (15 & 23 November 2025) dan sesudah kejadian (29 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 ( $\Delta d$ ) in Sentinel-1 SAR imagery acquired before (15th & 23rd November 2025) and after the event (29th 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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