

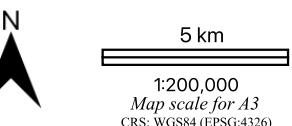
**Respon Tanggap Darurat
Bencana Berbasis Data Satelit**
Space-based Disaster Emergency Response

BANJIR

J12

**Padang Lawas,Mandailing Natal,
Padang Lawas Utara
Provinsi Sumatera Utara, Indonesia**

Flood
Padang Lawas, Mandailing Natal, Padang Lawas Utara
North Sumatra Province, Indonesia

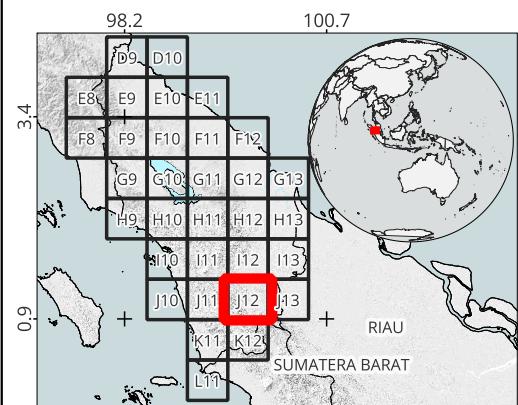


Legenda:

- [Dashed black line] Batas kabupaten District border
- [Blue line] Danau Lake
- [Solid blue line] Estimasi area terdampak banjir Estimated flooded area
- [Red line] Jaringan jalan primer Primary road
- [Red line with dots] 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 (Δ dB) pada citra SAR Sentinel-1 sebelum (22 November 2025) dan sesudah kejadian (28 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 (Δ dB) in Sentinel-1 SAR imagery acquired before (22nd November 2025) and after the event (28th 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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