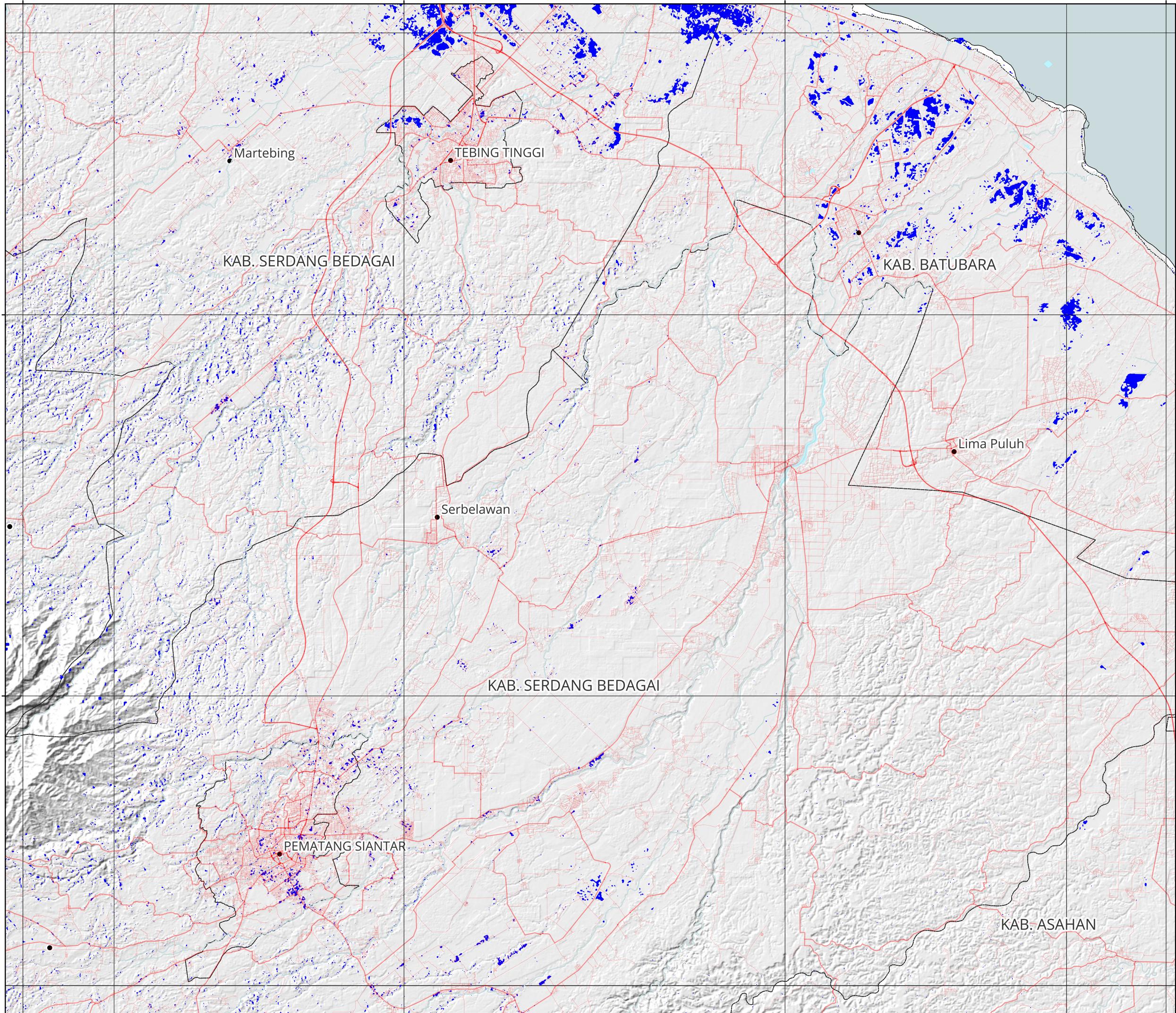


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Respon Tanggap Darurat Bencana Berbasis Data Satelit Space-based Disaster Emergency Response

BANJIR

Kota Pematangsiantar, Kota Tebing Tinggi, Simalungun, Serdang Bedagai, Batu Bara
Provinsi Sumatera Utara, Indonesia

F11

Flood

Kota Pematangsiantar, Kota Tebing Tinggi, Simalungun, Serdang Bedagai, Batu Bara
North Sumatera Province, Indonesia

N

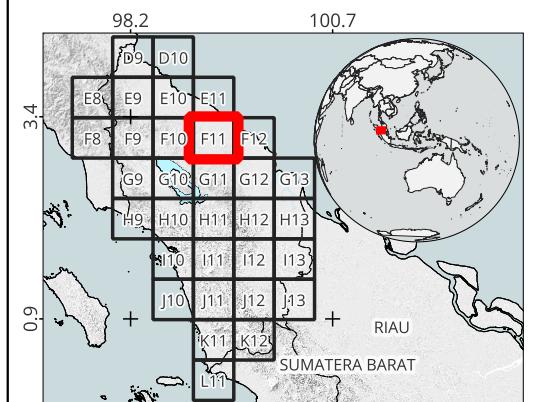
5 km
1:200,000
Map scale for A3
CRS: WGS84 (EPSG:4326)

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:

- Batas administrasi dari Badan Informasi Geospasial
Administrative boundary courtesy of Geospatial Information Agency (BIG)
- 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.

Information Produced by:
Indonesia Regional Support Office, UN-SPIDER, INASA, BRIN
<https://bit.ly/Indonesia-RSO-BRIN>

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- Research Center for Geoinformatics, BRIN
Contact: Yenni Vetrina Ph.D (yenn004@brin.go.id)



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