97.93 98.13 98.33 98.53

4.24 4.04

KAB. ACEH TAMIANG

Pangkalansusu

KAB. LANGKAT

PANGKALANBRANDAN

Kolamluar

TanJungpura

Respon Tanggap Darurat Bencana Berbasis Data Satelit

Space-based Disaster Emergency Response

BANJIR

D9

Langkat

Provinsi Sumatera Utara, Indonesia

Flood

Langkat

North Sumatera Province, Indonesia

N

5 km

1:200,000

Map scale for A3

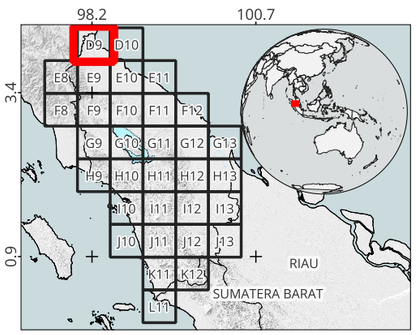
CRS: WGS84 (EPSG:4326)

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:

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 (ΔdB) 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 (ΔdB) 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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