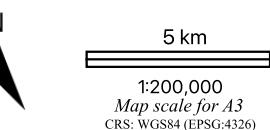


Respon Tanggap Darurat
Bencana Berbasis Data Satelit
Space-based Disaster Emergency Response

BANJIR
Tapanuli Utara,Toba,Labuhanbatu Utara
Provinsi Sumatera Utara, Indonesia

H11

Flood
Tapanuli Utara, Toba, Labuhanbatu Utara
North Sumatra Province, Indonesia

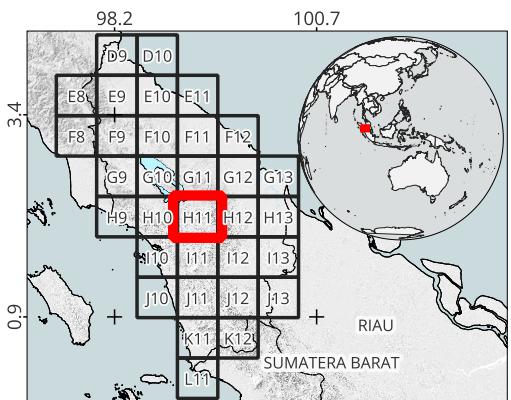


Legenda:

Dashed line	Batas kabupaten District border	Red line with dots	Jaringan jalan primer Primary road
Blue rectangle	Danau Lake	Red line	Jaringan jalan Road
Blue rectangle	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. 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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