

98.93

99.13

99.33

99.53

2.84

KAB. SERDANG BEDAGAI

2.64

Parapat

2.44

KAB. SAMOSIR

98.93

99.13

99.33

99.53

Bandarpasirmanogai

KAB. ASAHDAN

KAB. TOBA SAMOSIR

Porsea

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

BANJIR

Toba, Asahan, Simalungun
Provinsi Sumatera Utara, Indonesia

G11

Flood

Toba, Asahan, Simalungun
North Sumatra Province, Indonesia

5 km

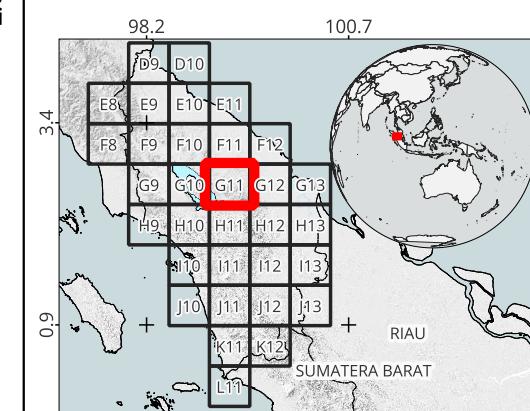
1:200,000
Map scale for A3
CRS: WGS84 (EPSG:4326)

Legenda:

 	Batas kabupaten District border	—	Jaringan jalan primer Primary road
 	Danau Lake	—	Jaringan jalan Road
 	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 (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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