

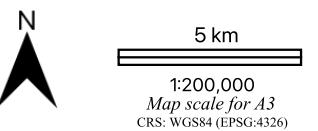
**Respon Tanggap Darurat**  
**Bencana Berbasis Data Satelit**  
*Space-based Disaster Emergency Response*

**BANJIR**

**G12**

Asahan, Labuhanbatu Utara  
 Provinsi Sumatera Utara, Indonesia

**Flood**  
 Asahan, Labuhanbatu Utara  
 North Sumatra Province, Indonesia

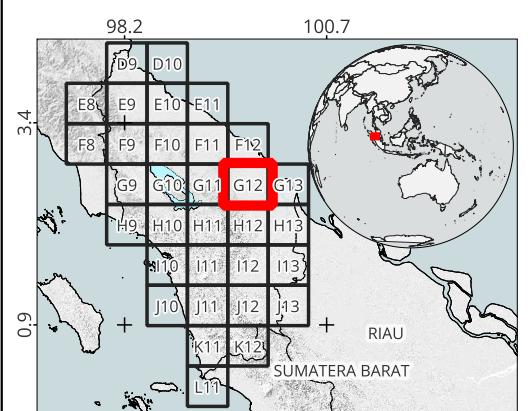


Legenda:

District border	Jaringan jalan primer
Lake	Jaringan jalan
Estimated flooded area	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 ( $\Delta dB$ ) 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 ( $\Delta dB$ ) 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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