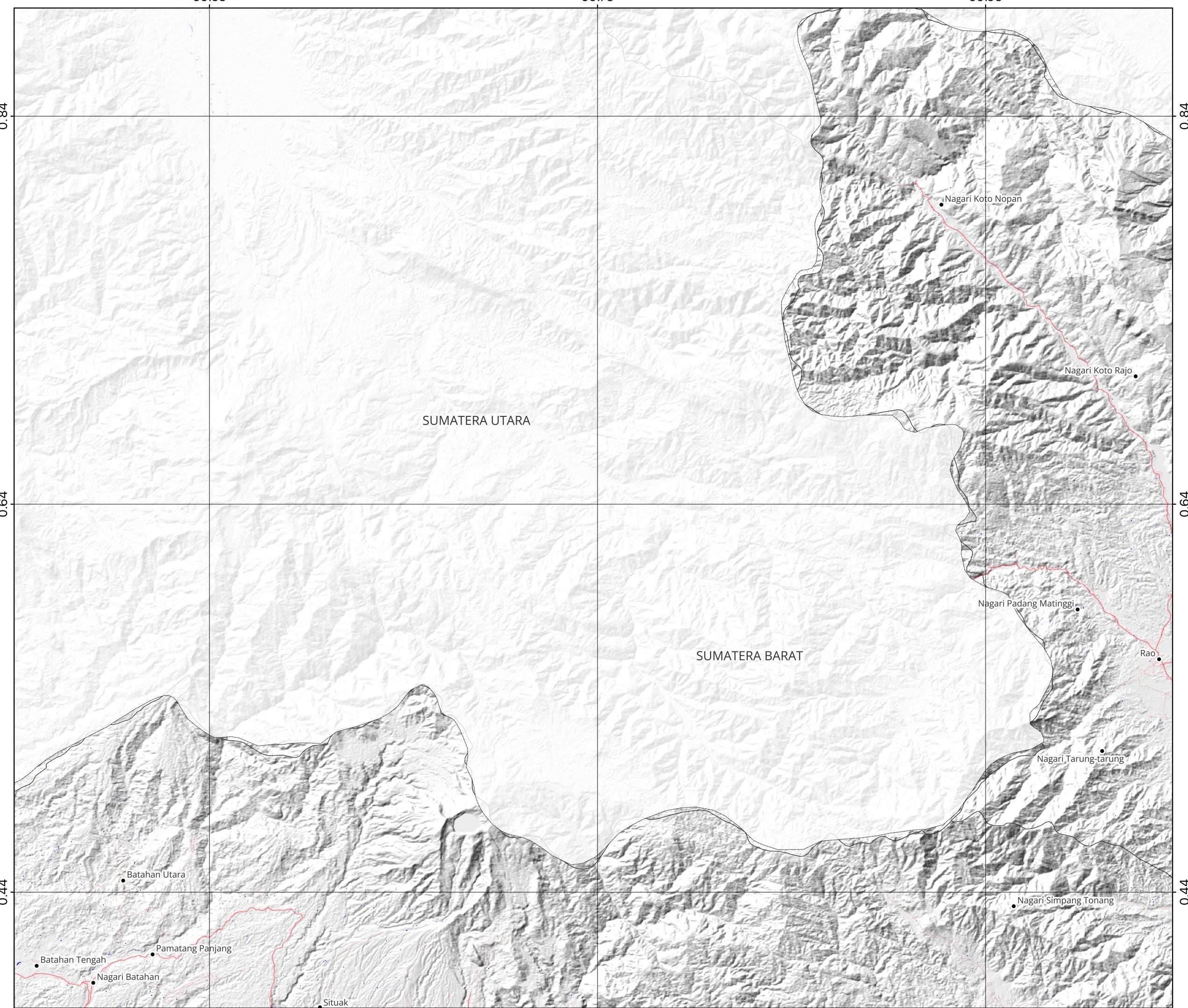


99.53

99.73

99.93



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

**BANJIR****Pasaman Barat,Pasaman  
Provinsi Sumatera Barat, Indonesia****K12**

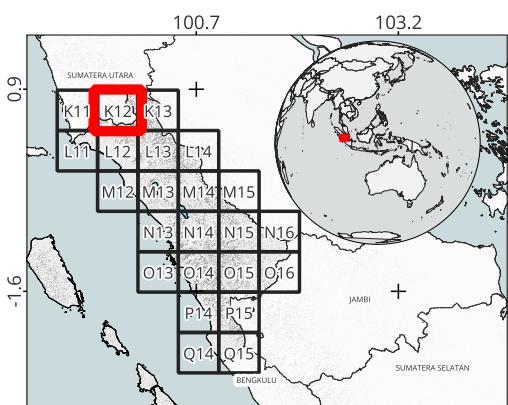
**Flood**  
Pasaman Barat, Pasaman  
West Sumatera Province, Indonesia

**Legenda:**

- |  |                                |  |                       |
|--|--------------------------------|--|-----------------------|
|  | Batas kabupaten                |  | Jaringan jalan primer |
|  | Danau                          |  | Jaringan jalan        |
|  | Estimasi area terdampak banjir |  | 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 ( $\Delta dB$ ) pada citra SAR Sentinel-1 sebelum (15 & 23 November 2025) dan sesudah kejadian (29 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 (15th & 23rd November 2025) and after the event (29th 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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