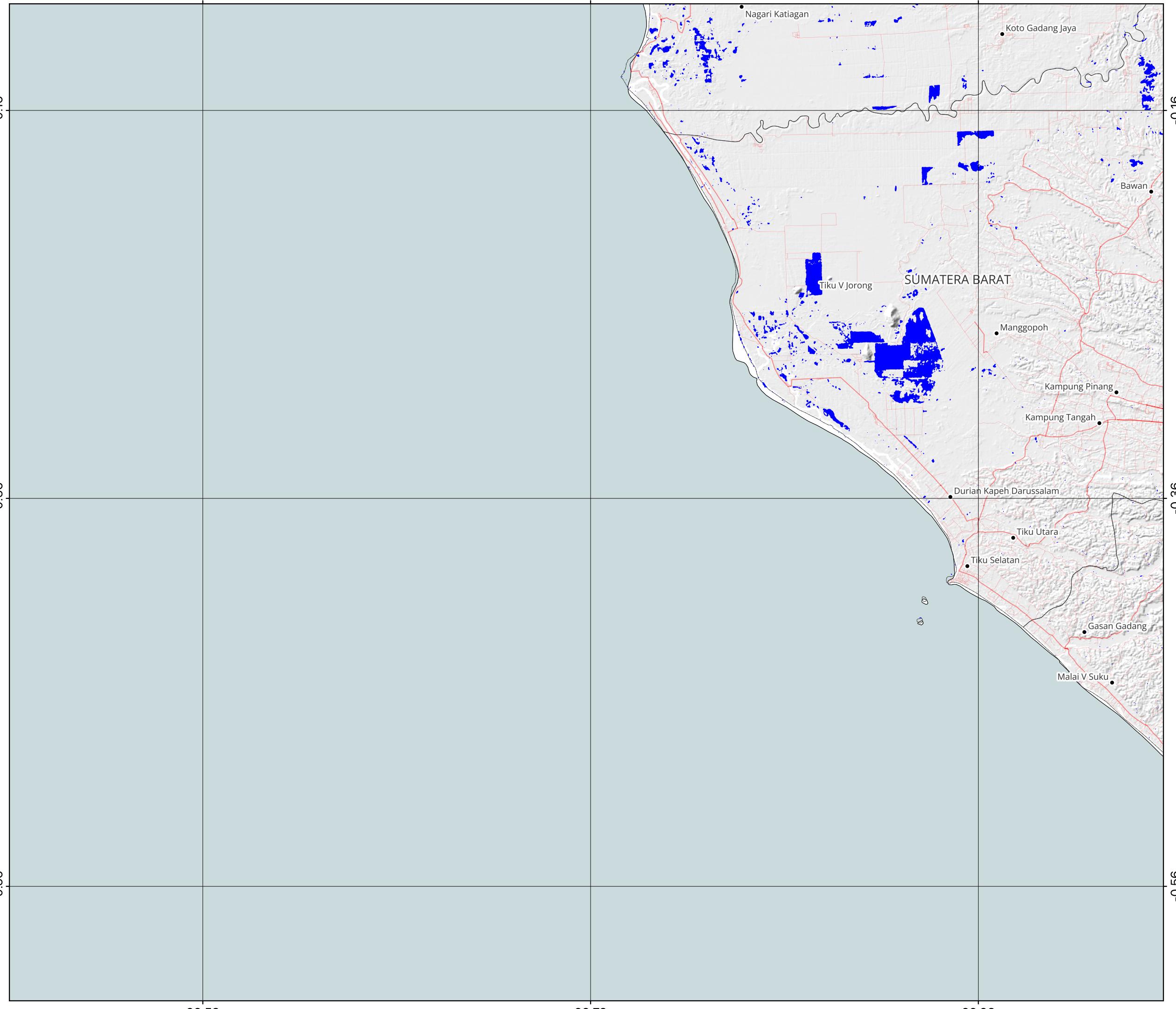


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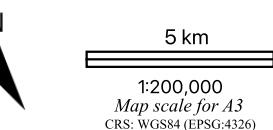
99.93



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

**BANJIR****Agam,Pasaman Barat  
Provinsi Sumatera Barat, Indonesia****M12**

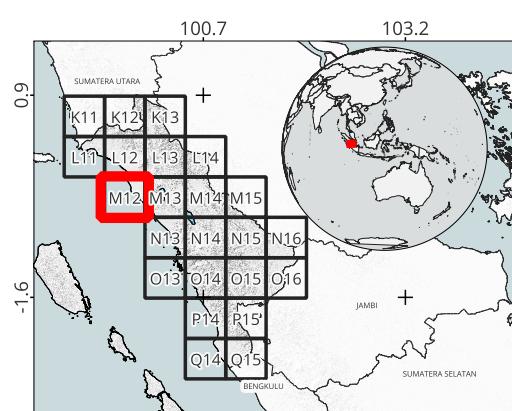
**Flood**  
Agam, Pasaman Barat  
West Sumatera Province, Indonesia

**Legenda:**

[District border icon]	Batas kabupaten District border	[Primary road icon]	Jaringan jalan primer Primary road
[Lake icon]	Danau Lake	[Road icon]	Jaringan jalan Road
[Estimated flooded area icon]	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 ( $\Delta dB$ ) 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>  
Supported by:  
- Center for Data and Information, BRIN  
- Research Center for Geoinformatics, BRIN  
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