

Respon Tanggap Darurat Bencana Berbasis Data Satelit

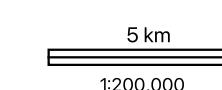
Space-based Disaster Emergency Response

BANJIR

M14

Kota Payakumbuh,Lima Puluh Kota, Tanah Datar,Sijunjung,Kota Sawahlunto,Padang Pariaman Provinsi Sumatera Barat,Indonesia

*Flood
Kota Payakumbuh, Lima Puluh Kota, Tanah
Datar, Sijunjung, Kota Sawahlunto, Padang
Pariaman
West Sumatera Province, Indonesia*

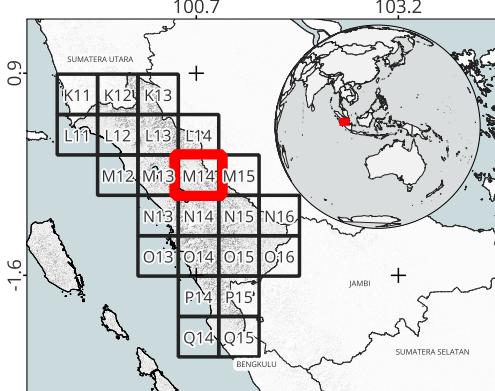


Legenda:

- Batas kabupaten
District border
- Danau
Lake
- Estimasi area terdampak banjir
Estimated flooded area
- Jaringan jalan primer
Primary road
- Jaringan jalan
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 place name 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 (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 (Δ 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.

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Contact: Yenni Vetrina Ph.D (yenni004@brin.go.id)

