This map illustrates the floods (cumulative) aggregated from Sentinel-1 in Sofala province of Mozambique between the 14th to the 31st of January 2021 and using an automated analysis with Artificial Intelligence based methods. The most exposed districts are mainly located in Buzi district, Sofala province. Within the analyzed area of about 30,000 km², a total of about 1,400 km² of lands appear to be flooded. Based on Worldpop population data and the detected surface waters, about 80,000 people were potentially exposed or living close to flooded areas during 14 – 31 January 2021 time period. By taking into account the building footprints from OpenStreetMap and the cumulative satellite detected surface waters (14 Jan. - 31 Jan. 2021), at least 10,000 buildings were located within or close to flooded areas.

This is a preliminary analysis and has not yet been validated in the field. Please send ground feedback to UNITAR-UNOSAT.

Important Note: Flood analysis from radar images may underestimate the presence of standing waters in built-up areas and densely vegetated areas due to backscattering properties of the radar signal.

Legend

- City/Town
- School
- Hospital
- Airport
- Primary road
- Secondary road
- River
- District boundary
- Reference water
- Satellite detected water (14 - 31 January 2021)

Map Scale for A3: 1:600,000

Analysis conducted with ArcGIS v10.7

Coordinate System: WGS 1984 UTM Zone 36S

Projection: Transverse Mercator

Datum: WGS 1984

Units: Meter

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