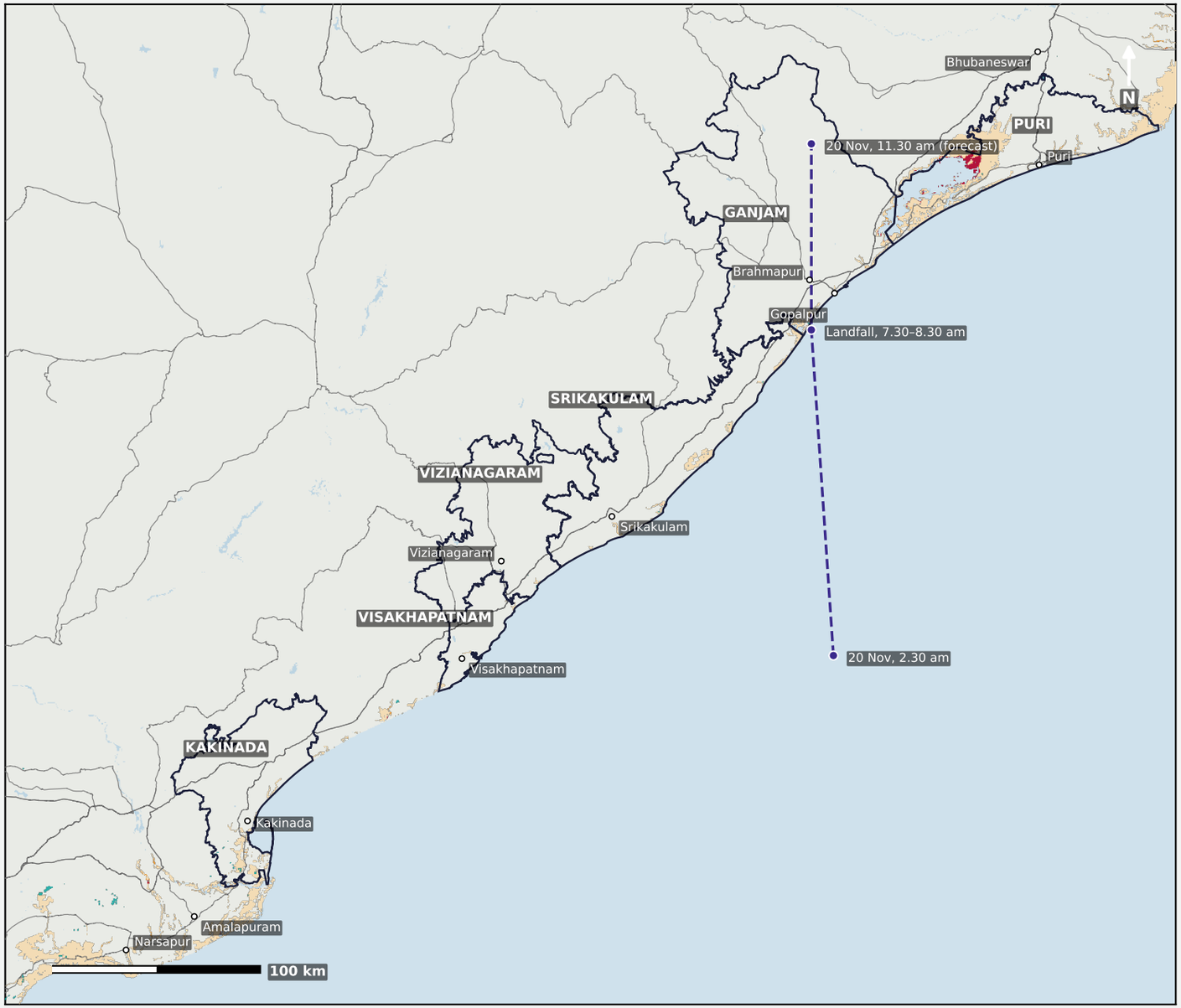
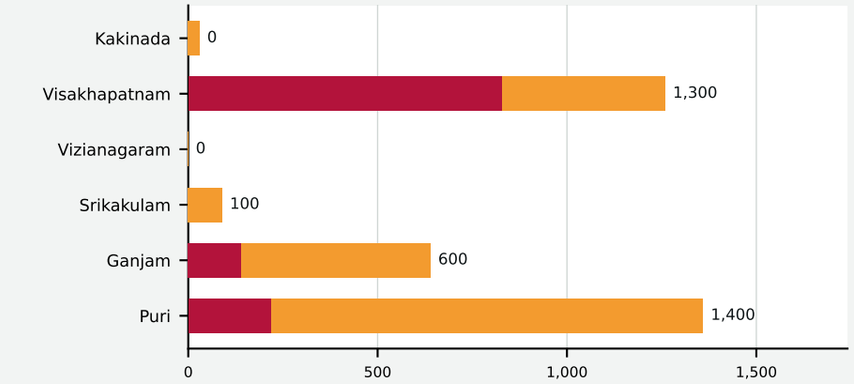
Cyclone Akvan: the low-lying land, people and farms in its storm-surge path

Land joined to the sea up to 0.5 m, 1.0 m and 2 m above sea level, in the six districts where IMD warned of a 0.5–1.0 m storm surge as Akvan came ashore on 20 November 2026



People living on low-lying land, by district

Dark: up to 0.5 m above sea level. Light: 0.5–1 m.



District	Land up to 1 m	Cropland	Ponds (OSM)
Kakinada	27 ha	7 ha	0 ha
Visakhapatnam	9 ha	2 ha	0 ha
Vizianagaram	2 ha	0 ha	0 ha
Srikakulam	82 ha	14 ha	0 ha
Ganjam	2.6 km²	86 ha	0 ha
Puri	57 km²	5.5 km²	13 ha
All six districts	**61 km²**	**6.6 km²**	**13 ha**

- Land up to 0.5 m above sea level, joined to the sea
- Land 0.5–1 m above sea level, joined to the sea
- Land 1–2 m, joined to the sea (the screen used for the first warning)
- Fish and shrimp ponds mapped in OpenStreetMap
- Rivers, lakes and other inland water
- District warned of a storm surge
- Main road
- IMD track of the storm centre, past and forecast (IST)

Low-lying land: Copernicus DEM heights, each band joined to the sea by ground no higher, at about 30 m. People: GHSL 2025 estimate spread over the land in each 90 m cell. Cropland: ESA WorldCover. Ponds: OpenStreetMap.

Locator



Copernicus DEM GLO-30 © DLR e.V. 2010–2014 and © Airbus Defence and Space GmbH 2014–2018, provided under COPERNICUS by the European Union and ESA. Population: GHS-POP R2023A: Schiavina M., Freire S., Carioli A., MacManus K. (2023), European Commission, Joint Research Centre (JRC) (CC BY 4.0). ESA WorldCover 2021 (CC BY 4.0).
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WGS 84 geographic coordinates; north is up. Map and analysis: TechnicalGIS Environmental News Desk, CC BY 4.0 · technicalgis.com/news-desk/