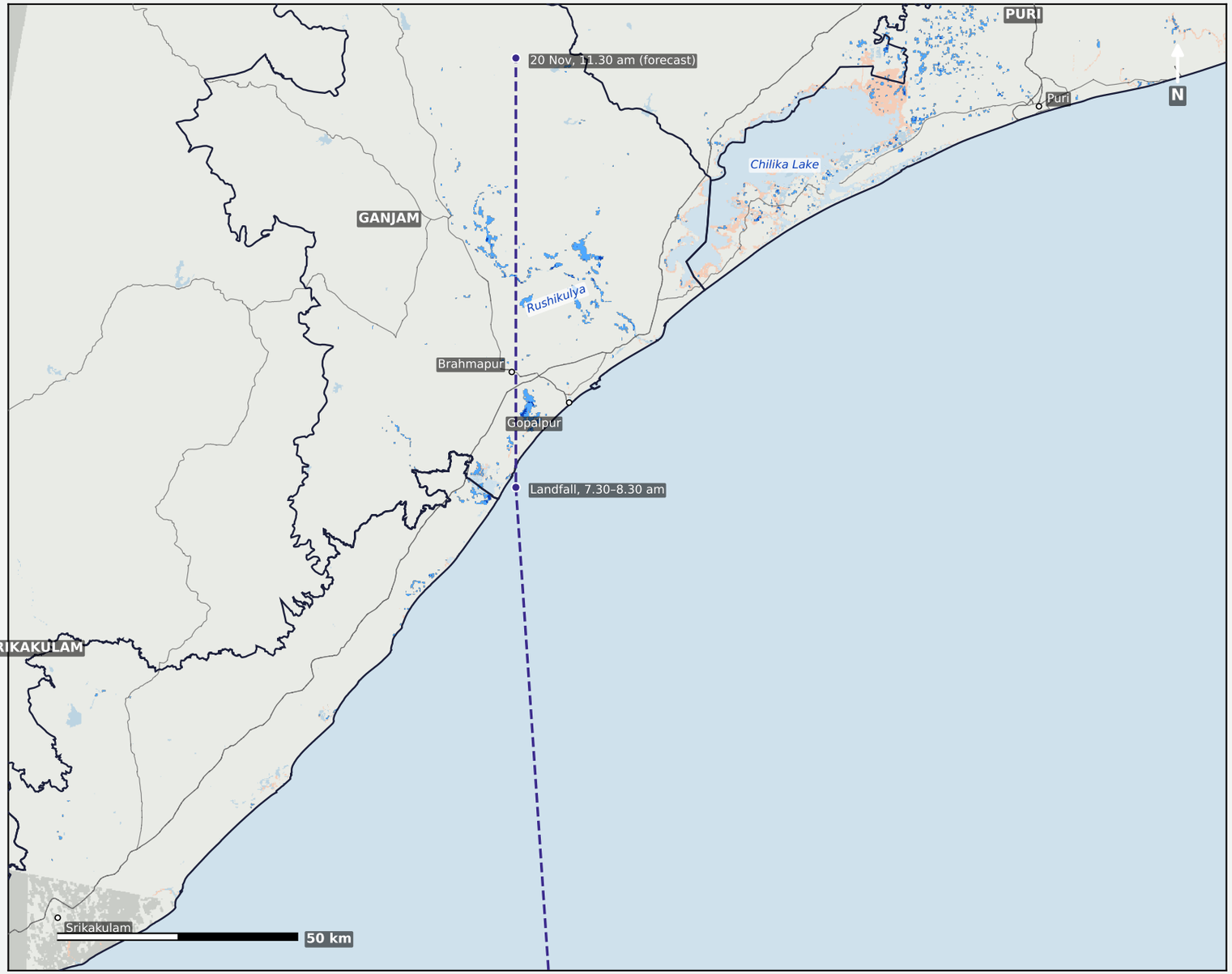
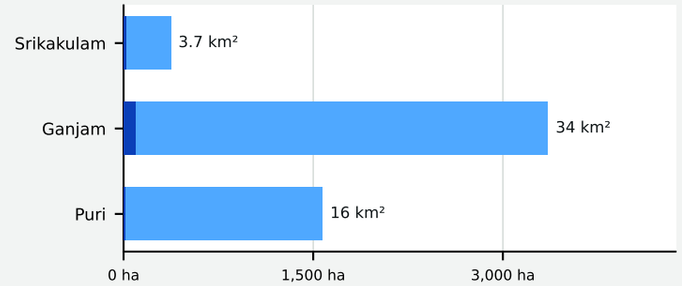
Cyclone Akvan: new surface water seen by satellite after landfall

Sentinel-1 radar, 23 Nov, and Sentinel-2, 22 Nov, compared with 11–12 Nov



New surface water after landfall, by district

Dark: radar and optical images agree. Light: one of them.



District	New water	People	Cropland	Land seen
Srikakulam	3.7 km²	100	1.6 km²	78%
Ganjam	34 km²	1,800	25 km²	88%
Puri	16 km²	900	12 km²	66%
All	**53 km²**	**2,800**	**38 km²**	

- New surface water seen by radar and optical images
- New surface water seen by one of them
- Land up to 1 m above sea level, joined to the sea (pre-landfall map)
- Land hidden by cloud and outside the radar pass
- Rivers, lakes and other water before the storm
- District boundary
- IMD track of the storm centre (IST)

New water: radar at least 3 dB darker and below −18 dB, or water index rising past 0.1, on flat low ground outside towns and existing water. Patches under 1 ha dropped.

Locator



Contains modified Copernicus Sentinel data 2026, processed by TechnicalGIS. 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).
District boundaries, roads and places © OpenStreetMap contributors, available under the Open Database Licence (ODbL). Track: India Meteorological Department. Locator: data © OpenStreetMap contributors (ODbL); rendering © EOX and MapServer.
WGS 84 geographic coordinates; north is up. Map and analysis: TechnicalGIS Environmental News Desk, CC BY 4.0 · technicalgis.com/news-desk/