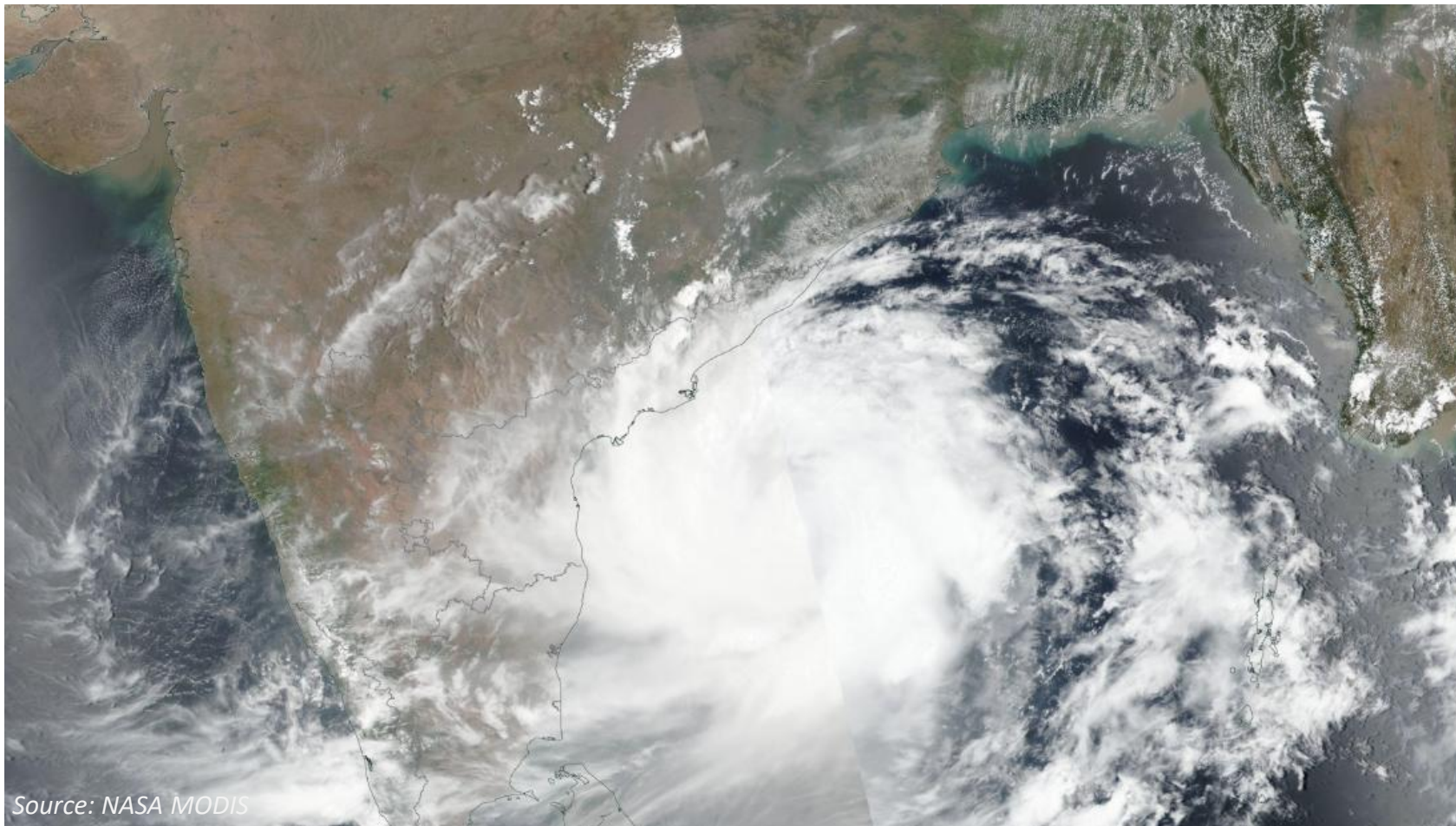


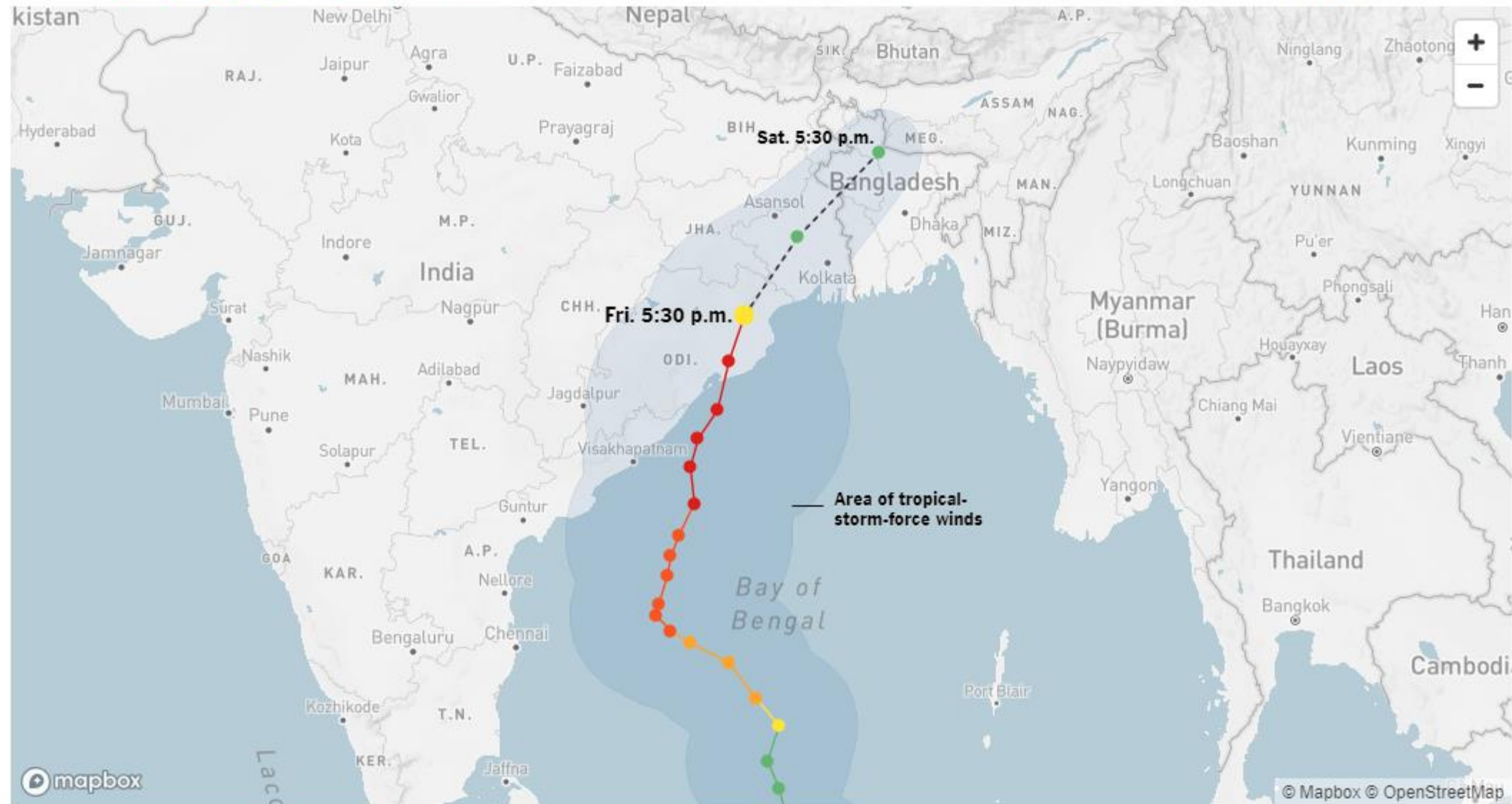
Cyclone Fani Hits India – IWMI aided Satellite Assessment



Cyclone Fani Tracking Landfall map

Category ● 4 ● 3 ● 2 ● 1 ● Tropical storm

Forecasted path - - - - -



Note: All times are Indian Standard Time. Source: Global Disaster Alert and Coordination System

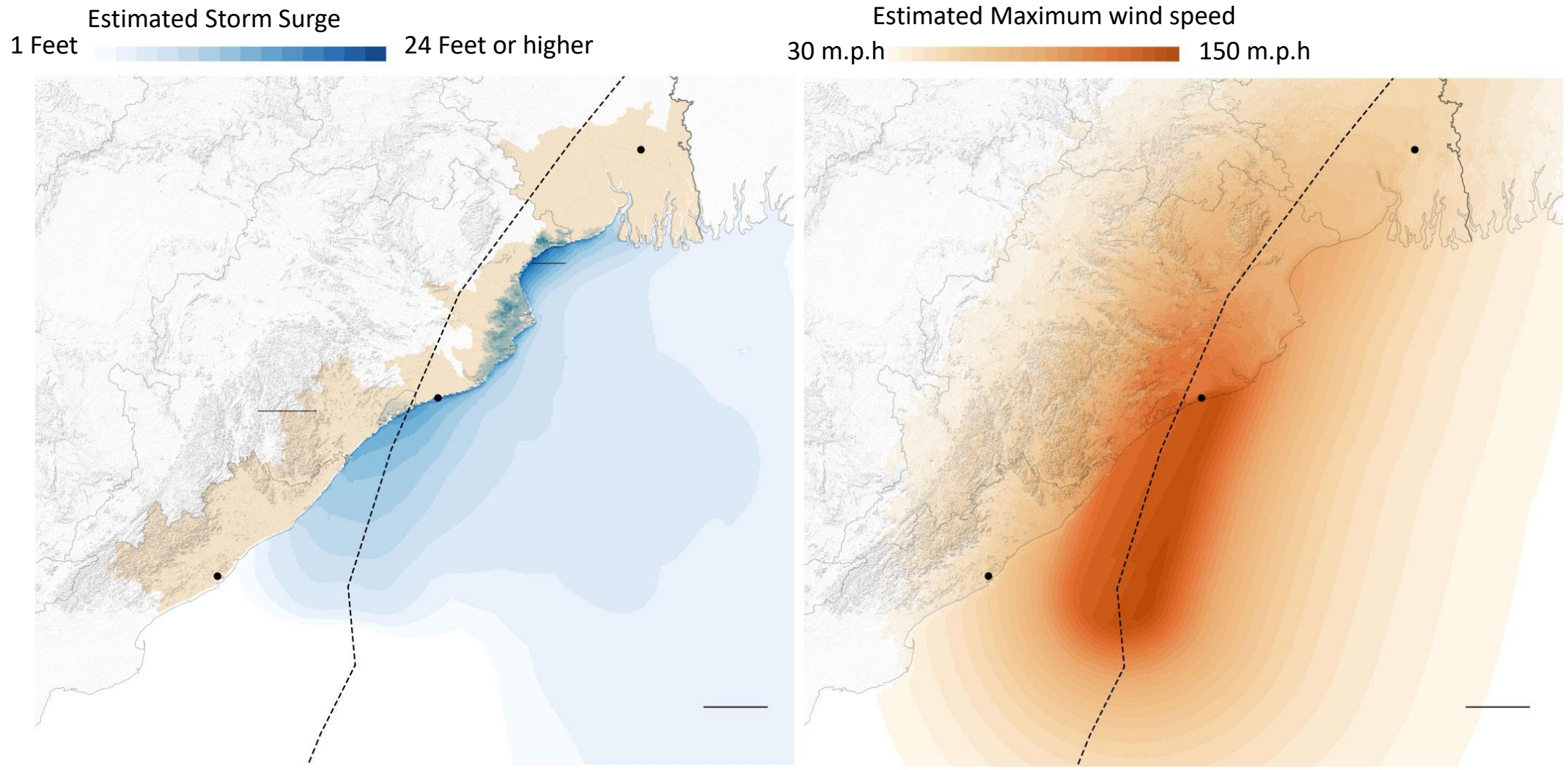
Cyclone Fani: Here's Detail Of Damage

- Extremely Severe Cyclonic Storm Fani was the strongest tropical cyclone hit the Indian state of Odisha since Phailin in 2013.
- Prior to its landfall, authorities in India and Bangladesh moved at least a million people each from Fani's projected path onto higher ground and into cyclone shelters, which is thought to have reduced the resultant death toll. As of 5 May 2019, 51 people are known to have been killed by Fani in Eastern India and Bangladesh.
- Cyclone Fani made landfall near Puri, India, around 5:30pm on Friday, after more than a million people were evacuated. The fast moving storm lashed the coast with gusts of more than 120 m.p.h.
- Cyclone Fani has left behind a trail of destruction in several parts of Odisha. While the cyclonic storm has caused extensive damage in Khurda and Puri districts, Cuttack, Kendrapara and Jagatsinghpur districts have been moderately affected.
- As per the data from State Emergency Operation Centre (SEOC), Bhubaneswar, nearly 30 lakh electricity consumers have been affected by the extremely severe cyclonic storm.
- In 1999, the same state was hit by a devastating 30-hour super-cyclone that saw a storm surge sweep 20km inland, killing more than 10,000 people.
- This time, improved forecasting models, public awareness campaigns and well-drilled evacuation plans - backed by an army of responders and volunteers - have spared Odisha's inhabitants from the worst of Fani's fury.



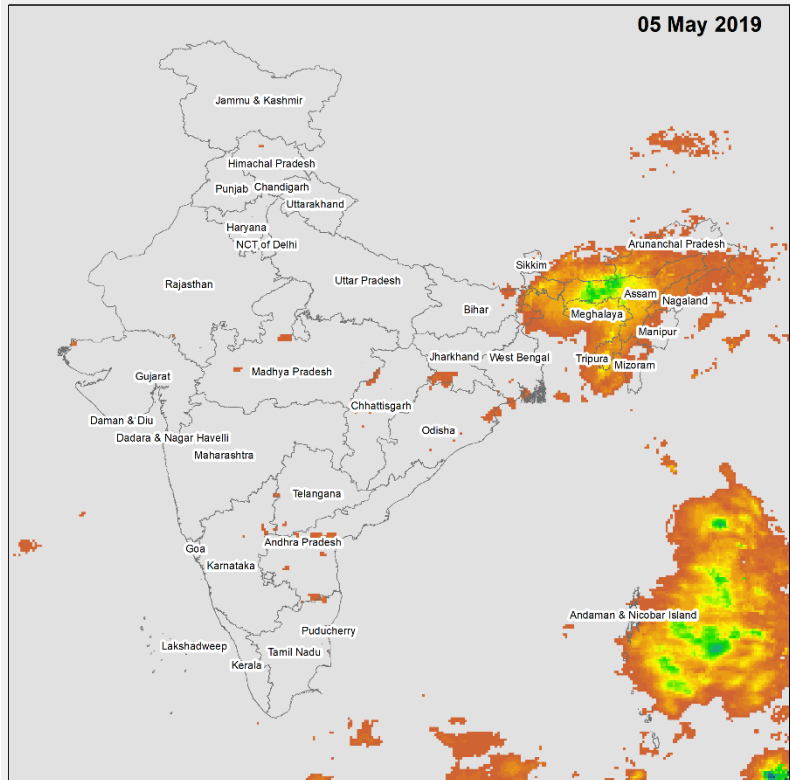
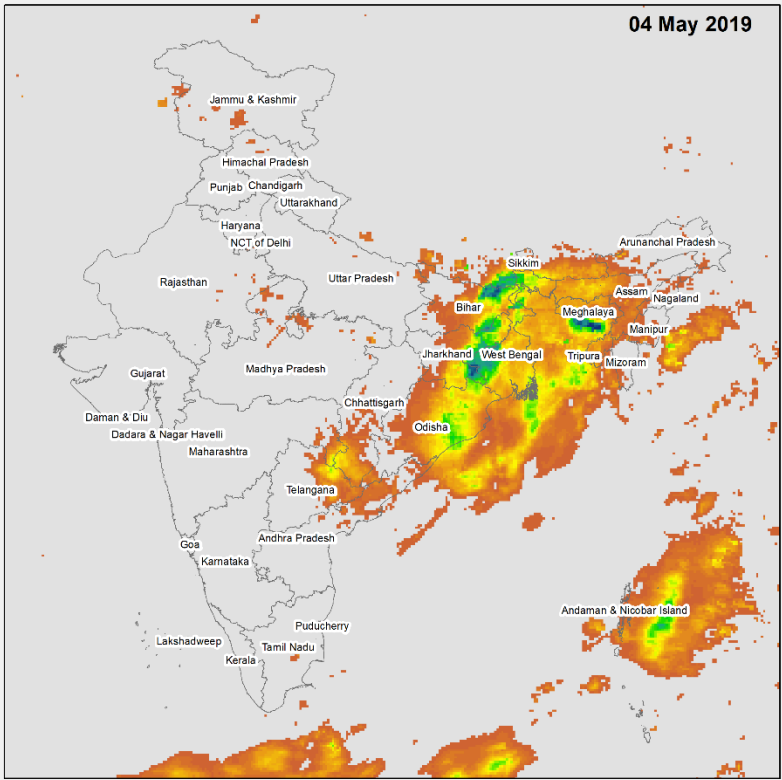
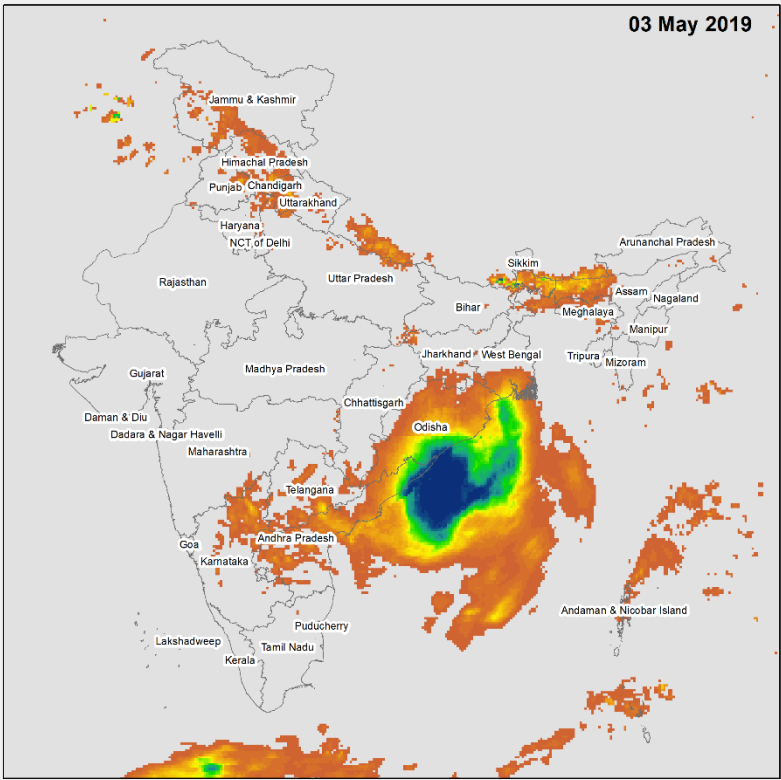
A woman sits in the debris with a child in the storm-damaged building in Puri in the eastern Indian state of Odisha on May 4, 2019, after Cyclone Fani swept through the area. Photo: Dibyangshu Sarkar

Cyclone Fani – Estimated Storm surge and Wind Speed Map



Note: Estimates as of Thursday. Source: Kinetic Analysis

Satellite rainfall estimates (3, 4 and 5th May 2019)

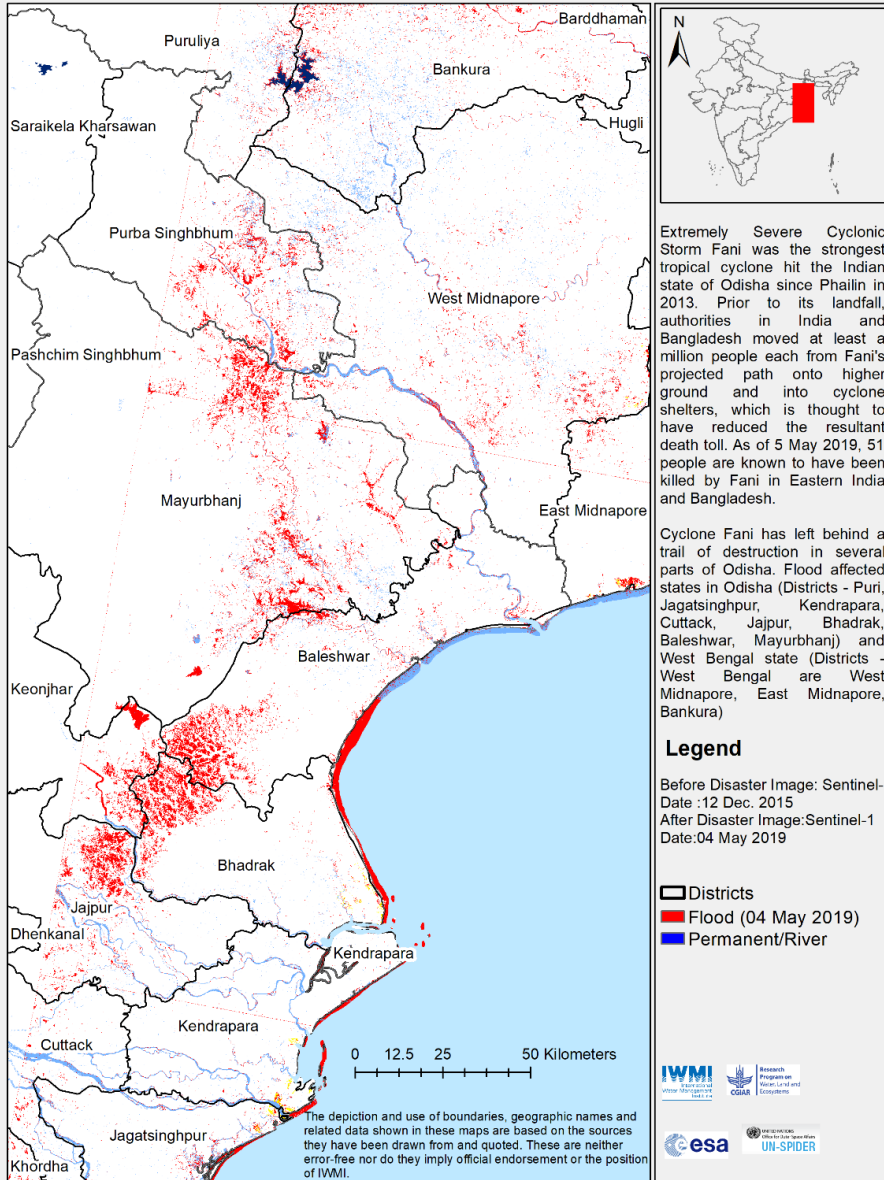


Data Source: GPM - Global Precipitation Measurement | NASA

Map Source: IWMI

Synoptic view of Cyclone Fani affected areas using Sentinel-1 satellite data

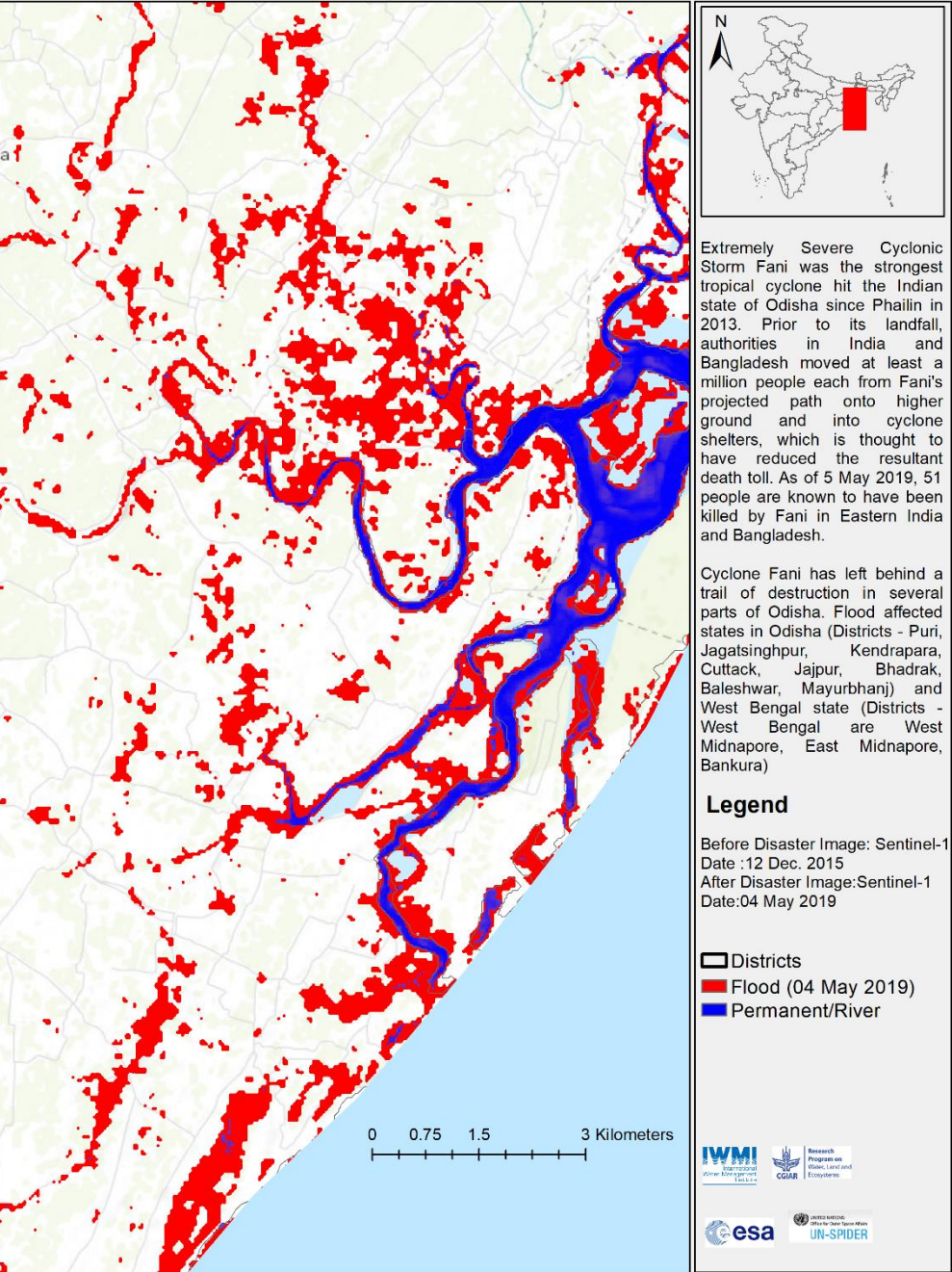
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Cyclone Fani – ESA Sentinel-1 Satellite images



Damaged homes and fishing boats are seen in Puri, Odisha, India
Source: BLOOMBERG

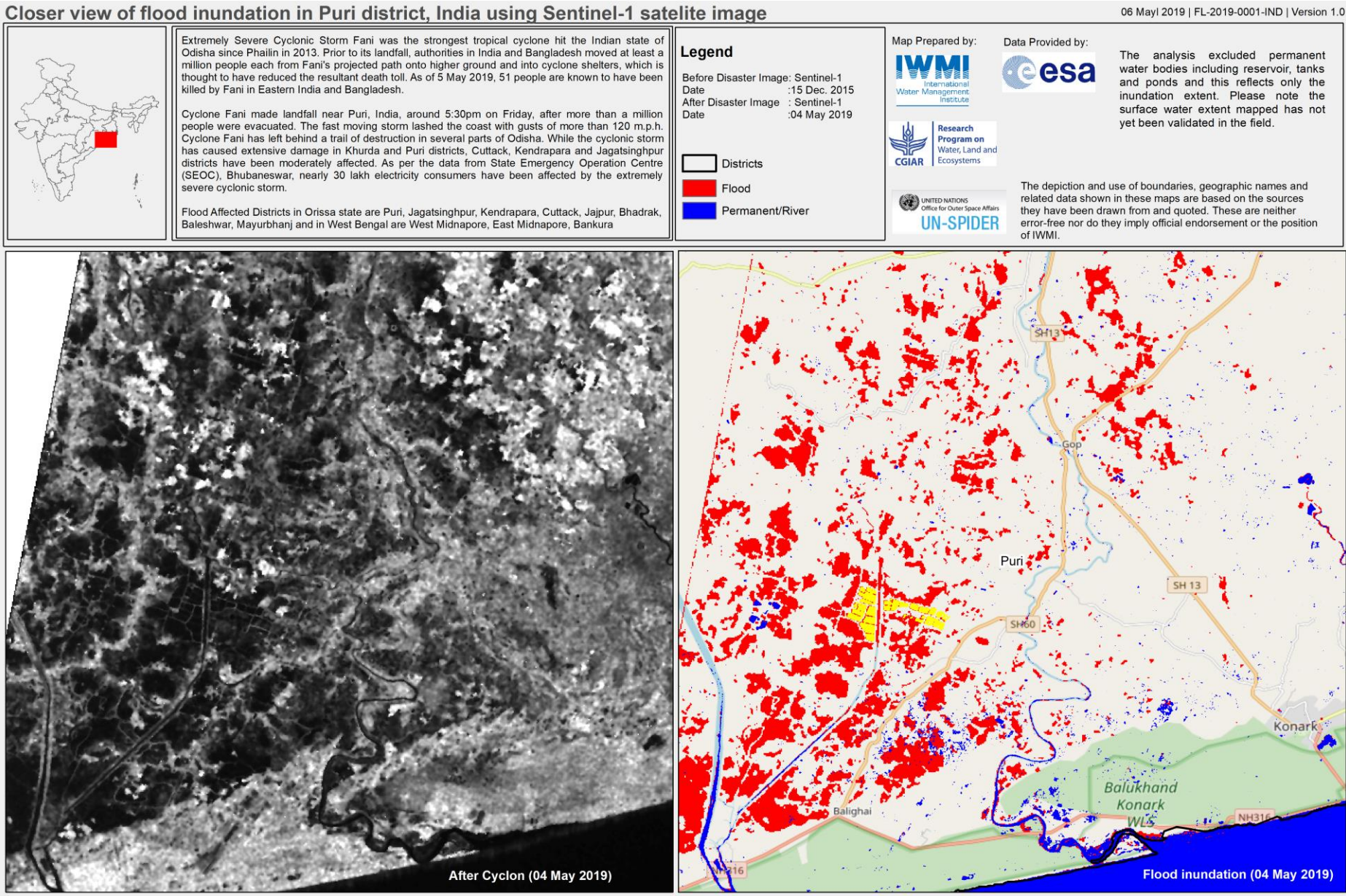


Cyclone Fani – ESA Sentinel-1 Satellite images

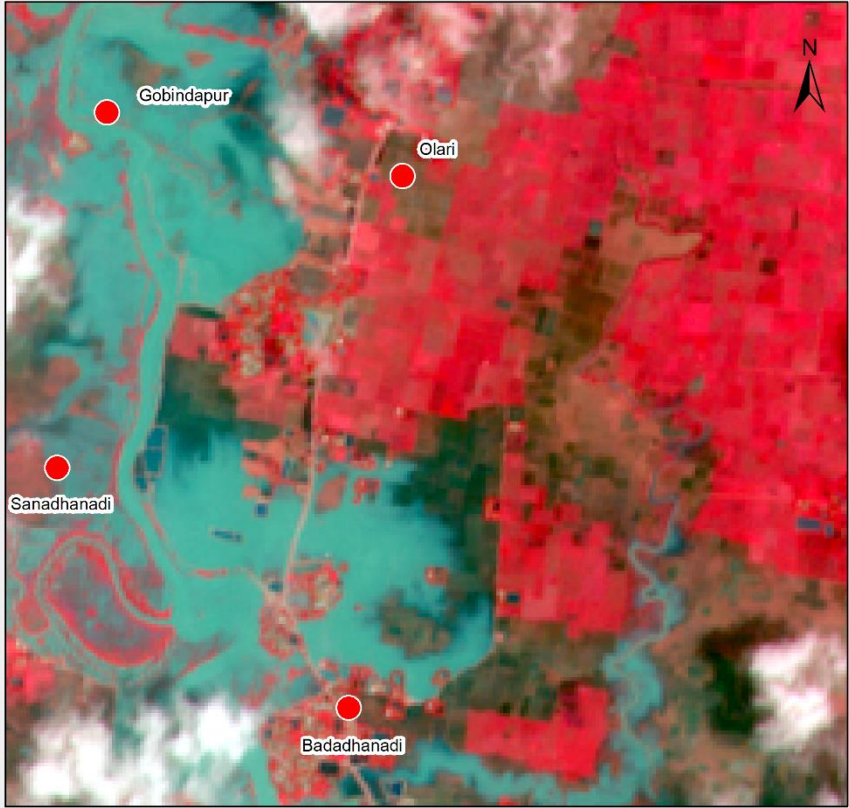
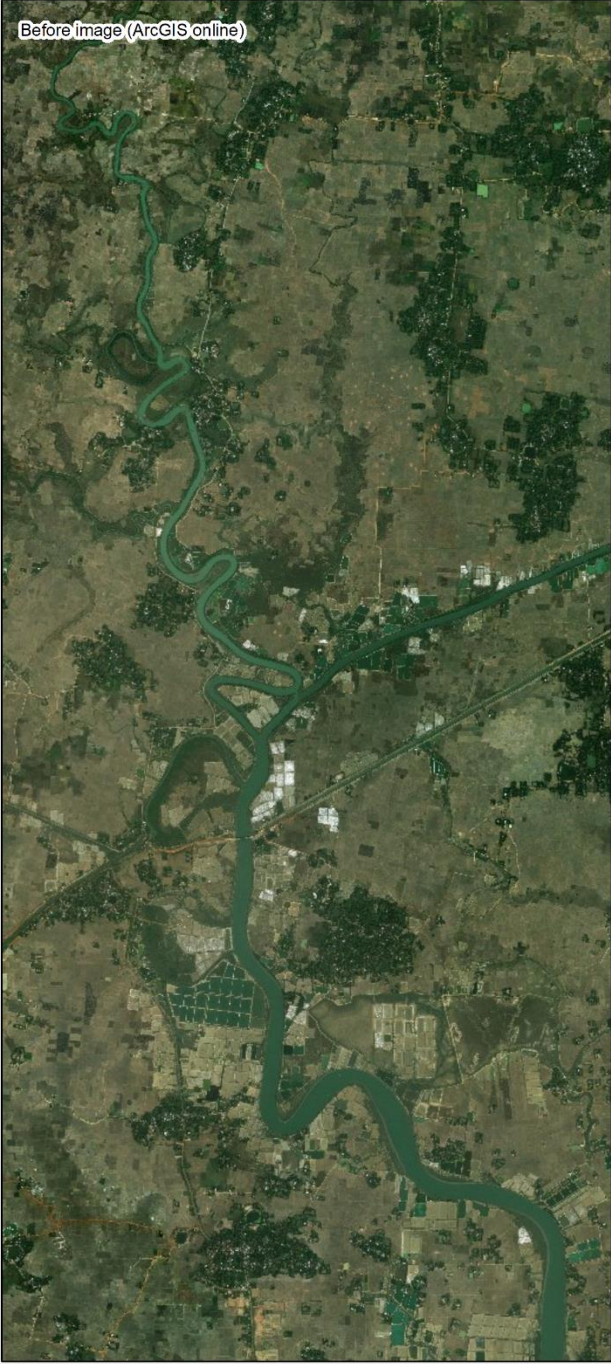
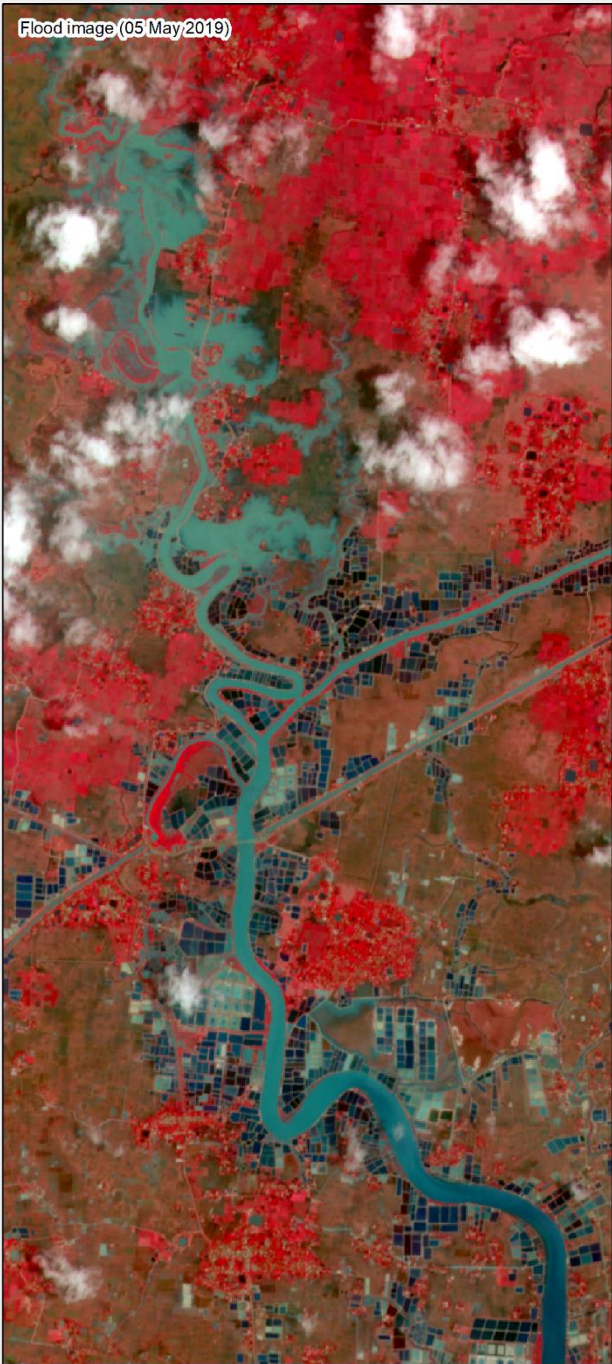


Web Sources

Cyclone Fani – ESA Sentinel-1 Satellite images



Submerged Villages in Balasore District, Odisha using ESA Sentinel-2 satellite data (05 May 2019)



Map Prepared by:



Research
Program on
Water, Land and
Ecosystems

Data Provided by:

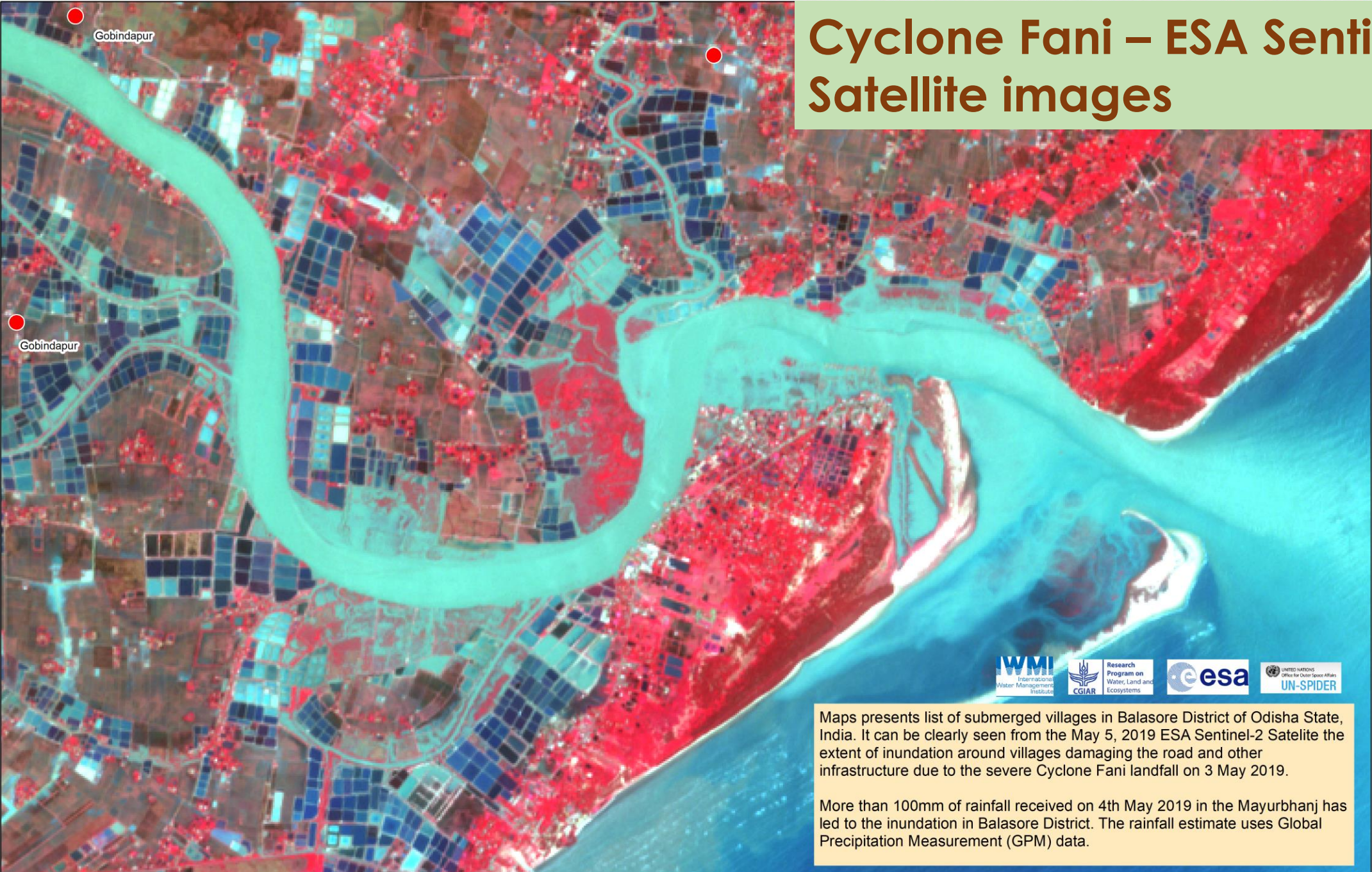


Maps presents list of submerged villages in Balasore District of Odisha State, India. It can be clearly seen from the May 5, 2019 ESA Sentinel-2 Satellite the extent of inundation around villages damaging the road and other infrastructure due to the severe Cyclone Fani landfall on 3 May 2019.

More than 100mm of rainfall received on 4th May 2019 in the Mayurbhanj has led to the inundation in Balasore District. The rainfall estimate uses Global Precipitation Measurement (GPM) data.

Cyclone Fani – ESA Sentinel-2 Satellite images

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The report is a compilation of various data sources from weather department, cyclone track from global disaster alert team, satellite foot prints from space agencies including ESA Sentinel-1 and Sentinel-2 and JAXA's ALOS-2 PALSAR-2 data.

The images or analyzed products were not field validated, so kindly use the information with caution. There are neither error-free nor do they imply official endorsement or the position of IWMI.

Contact IWMI for any assistance to support in use of rapid response maps for relief and damage assessment.

You can reach us by email: Giriraj Amarnath, Research Group Leader: Water Risks and Disasters; Email: a.giriraj@cgiar.org

