

Cumulative Flood Inundated areas in East Champaran District

Based on the analysis of RADARSAT-2 SAR, Sentinel-1A SAR ALOS PALSAR-2 and TerraSAR-X Satellite Data of 9,13,14,16,18,21 and 23rd July 2020

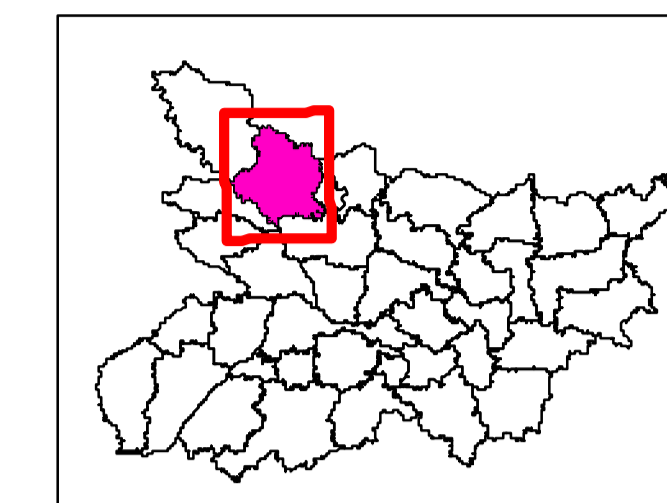
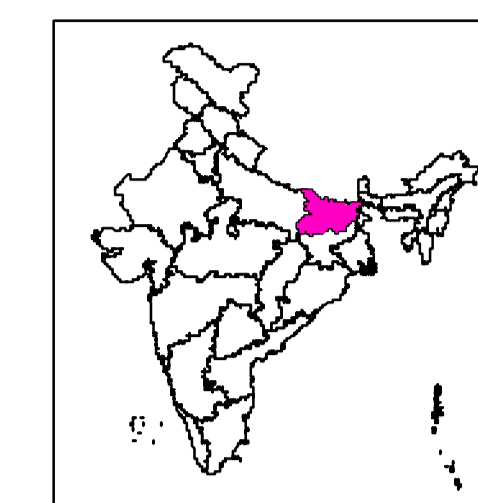


For official use

DISASTER EVENT ID: 03-FLD-2020-BR
MAP ID: 2020/25

Date of Issue : 24.07.2020

Location Map



About the Event

Heavy rains are reported in Bihar during second week of July 2020 and caused steady rise in water levels in parts of Bihar state. According to reports, River Adhwara at Saharghat, Parman at Araria, Mahananda at Taibpur and Jhawa, Kamla at Jainagar, Ghagra at Darauli, Kosi at Basua and Baltara, Gandak at Dumariaghat, Bagmati at Dheng Bridge, Runisaidpur and Benibad were reported to be flowing above danger level. (Source: News Media, FMISC) (Source: News Media, CWC)

Satellite Observations

This map highlights the inundated areas due to heavy rains in East Champaran District of Bihar state

Satellite data used

Pre Flood:
Satellite: ResourceSat-2
Sensor: AWiFS
Date of Pass: 03-March-2020

Post Flood

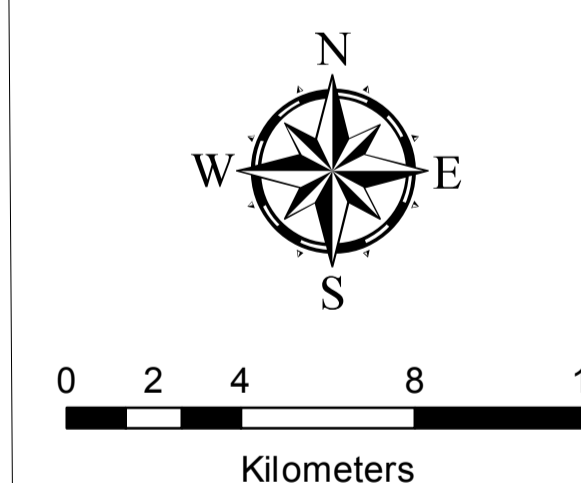
S No	Date	Satellite / Sensor
1	09-Jul-20	SENTINEL-1 / SAR
2	13-Jul-20	SENTINEL-1 / SAR
3	14-Jul-20	ALOS 2 PALSAR / SAR
4	16-Jul-20	RADARSAT-2 SAR
5	16-Jul-20	SENTINEL-1 / SAR
6	18-Jul-20	SENTINEL-1 / SAR
7	21-Jul-20	SENTINEL-1 / SAR
8	23-Jul-20	SENTINEL-1 / SAR and TerraSAR-X

Other data used

NRC Landuse/Landcover Data of 2018-19

Legend

	National Highway		Flood Inundation
	State Highway		Normal river / water bodies
	District Road		District Boundary
	Railway		
	Taluk boundary		



This product is prepared on rapid mapping mode for immediate use and sharing amongst official agencies. This provides preliminary results. Flood inundation may include rain water accumulation / flood water in low lying areas. Districts with inundation less than 1000 ha are not included in the statistics. All geographic information has limitations due to the scale, resolution, date and interpretation of the original source materials. No ground verification is done.

This product is prepared using Sentinel-1A and TerraSAR-X Satellite images received under International Charter, Call ID-764 "TerraSAR-X/TanDEM-X © DLR e.V. 2020 Distribution Airbus DS Geo GmbH".

Note: When publishing this map as part of any report, source may be indicated as " NRSC (2020) - Cumulative Flood Inundated areas of East Champaran District, Bihar State (9th to 23rd July 2020)" dated 24.07.2020 DSC/NDEM Map no : 2020/25, NRSC/ISRO, Hyderabad

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