

Cumulative Flood Inundated areas of Bihar State

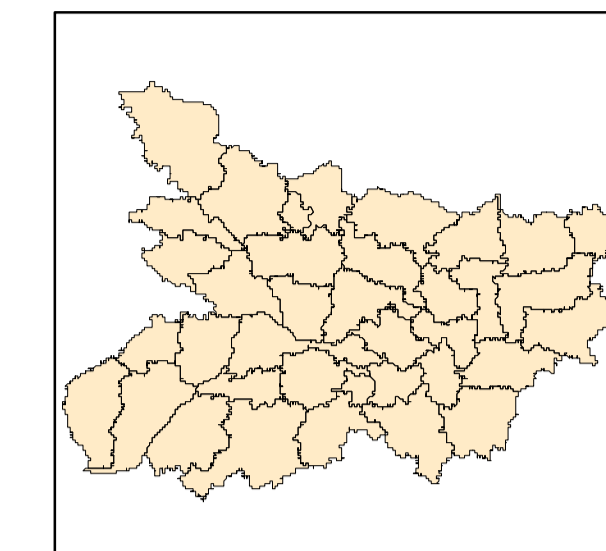
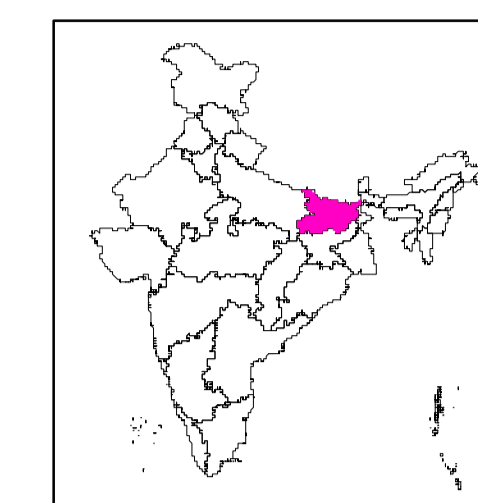
Based on the analysis of RADARSAT-2 SAR, Sentinel-1A SAR, ALOS PALSAR-2 and TerraSAR-X Satellite Data of 9,13,14,16, 18, 21 and 23 July 2020

For official use

DISASTER EVENT ID: 03-FLD-2020-BR
MAP ID: 2020/22

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)

Satellite Observations

This map highlights the inundated areas due to heavy rains in 23 districts of Bihar State from 9 to 23 July 2020.

Satellite data used

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

Post Flood:

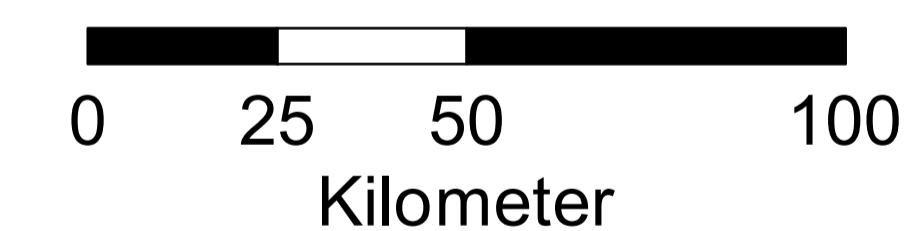
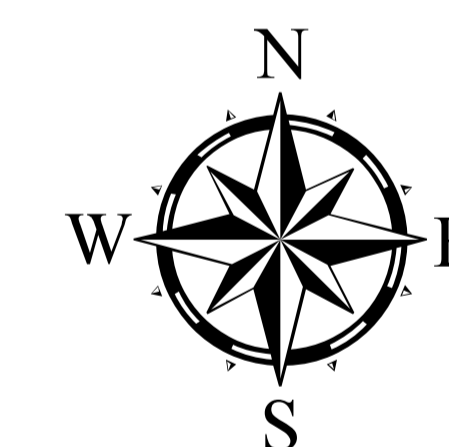
S No	Date	Satellite / Sensor
1	09-Jul-20	SENTINEL-1 / SAR
2	13-Jul-20	SENTINEL-1 / SAR
3	14-Jul-20	ALOS 2 PALSAR / SAR
4	16-Jul-20	RADARSAT-2 SAR
5	16-Jul-20	SENTINEL-1 / SAR
6	18-Jul-20	SENTINEL-1 / SAR
7	21-Jul-20	SENTINEL-1 / SAR
8	23-Jul-20	SENTINEL-1 / SAR and TerraSAR-X

Other data used

NRC Landuse/Landcover Data of 2018-19
Background Data: Shaded Relief

Legend

- Airport
- District HQ
- State boundary
- District boundary
- Road cum Embankment
- Major Roads
- Other Roads
- Railway
- CWC River Guage- Normal Flood Situation
- Normal River/Water Bodies
- Flood Inundation
- River Bank



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".

RRES
National Remote Sensing Centre, ISRO
Dept. of Space, Govt. of India
Hyderabad- 500 037
E-Mail: flood@nrsc.gov.in
www.nrsc.gov.in



Note: When publishing this map as part of any report, source may be indicated as "NRSC (2019) - Cumulative Flood Inundated areas of Bihar State (9 to 23 July 2020)" dated 24.07.2020 DSC/NDEM Map no : 2020/22, NRSC/ISRO, Hyderabad

