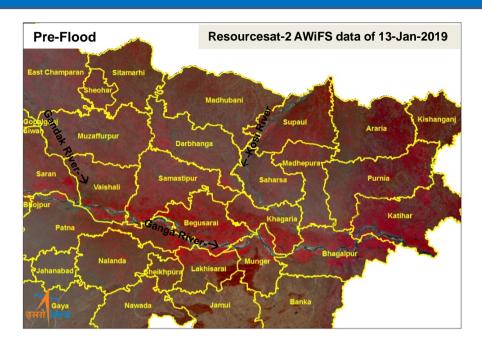
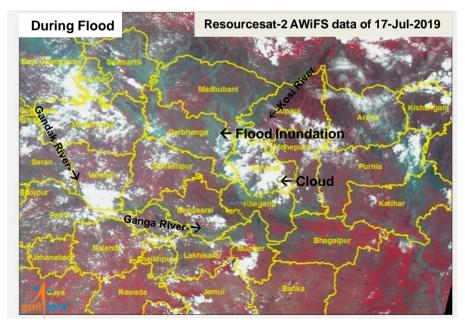
BIHAR FLOODS - 2019

- Heavy Incessant rains followed by rise in the water levels of River Mahananda, Bagmati, Kamla Balan, Adhwara, Kosi Burhi Gandak and Gandak and its tributaries has led to severe flood situation in more than 11 districts of State.
- All the major tributaries of River Mahananda, Bagmati, Kamla Balan, Adhwara, Kosi, Burhi Gandak and Gandak were flowing above danger level due to heavy rains during the Second week of July ,2019.
- DMSD, NRSC Monitoring and mapping the floods in Bihar using temporal satellite data since beginning of the flood event (11th July,2019)
- NRSC acquired RADARSAT-2 SAR data of Jul 11th ,15th, & 17th Sentinel-1A SAR of 12th & 13th and Resourcesat-2 AWIFS satellite data of 17th July 2019 to map & monitor the flood inundated areas.
- The satellite images show pre & during flood situation in parts of Bihar
- For flood map, please visit disaster support services at https://bhuvan.nrsc.gov.in/

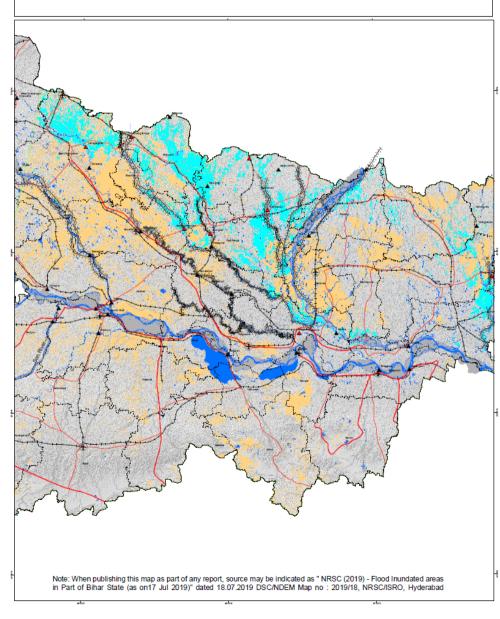




BIHAR FLOODS - 2019

Flood Inundated areas in part of Bihar State

Based on the analysis of Resourcesat-2 AWiFs Image of 17-July-2019



For official use

DISASTER EVENT ID: 02-FLD-2019-BR MAP ID: 2019/18

Date of Issue: 18.07.2019

Location Map





About the Event

Heavy rains are reported in Bihar during second week of July 2019 and caused steady rise in water levels in parts of Bihar state. According to reports, River Mahananda, Bagmati, KamlaBalan,Adhwara,Burhi Gandak,Kosi and Gandak were reported to be flowing above danger level.

Satellite Observations

This map highlights the inundated areas due to heavy rains in Madhubani, Eastchamparan, Sitamarhi, Darbhanga, Katihar, Supaul, Ar aria, Purnia, Kishangani, Muzaffarpur and Khagaria State as on 17 July 2019

Satellite data used

Post Flood: Resourcesat-2 - 17-Jul-2019

Pre Flood: Satellite: ResourceSat-2 Sensor: AWiFS

Date of Pass: 07-March-2018

Other data used

NRC Landuse/Landcover Data of 2014-15 Background data - Shaded Relief





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

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.

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



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