

Mapping Inundation extent for Bihar State using ESA Sentinel-1 Satellite Data



North-eastern India, southern Nepal and Bangladesh received heavy rainfall during the last few days, which caused widespread flood claiming 160 human lives and displacing millions of people from their homes.

Indian state of Bihar, which receives most of the flood waters from rivers in upstream Nepal is also seriously affected in the ongoing disaster event. Four districts located along the Indian-Nepal border in Bihar Kishanganj, Araria, Purnea and Katihar districts are under high inundation affecting nearly one million people. Flood inundation and damages are also reported in other districts Darbhanga, Madhubani, Sitamarhi, Madhepura, Saharsa, Supaul as well as East and West Champaran.

District wise satellite estimated flood extent - Araria 816 sq.km, Khagalpur 443 sq.km, Katihar 1118 sq.km, Kishanganj 304 sq.km, Purnia 881 sq.km and Supaul 358 sq.km.

Legend

Disaster Image : Sentinel-1
Date : 15 Aug. 2017

- Flood
- River/Permanent water
- District Boundary
- State boundary
- Rivers
- Road
- Cities/Town

Map Prepared by: Data Provided by:

The analysis excluded permanent water bodies including reservoir, tanks and ponds and this reflects only the inundation extent. Please note the surface water extent mapped has not yet been validated in the

The depiction and use of boundaries, geographic names and related data shown in these maps are based on the sources they have been drawn from and quoted. These are neither error-free nor do they imply official endorsement or the position of IWMI.

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