

Mapping Inundation extent for Lakhimpur, Jorhat, Golaghat, Sonitpur in Assam 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. The floods imposed economic hardships among thousands of farmers due to the destruction of rice crops in the ongoing Kharif season. According to the official's reports, at least 2.5 million people had been affected, including some 200,000 now staying in 440 relief camps. Second time in this monsoon season, large areas of Assam's Kaziranga National Park are also under water, forcing endangered rhinos and wild animals to move to higher ground. Kokrajhar, Dhubri and Bongaigaon in western Assam and Kaliabor, Dhemaji and Dibrugarh in Upper Assam are the worst hit districts.

District wise flood extent using satellite data (without river mask) – Golaghat 1290 sq.km, Jorhat 1352 sq.km, Lakhimpur 1158 sq.km, Nagaon 758 sq.km, Sibsagar 147 sq.km and Sonitpur 1774 sq.km respectively.

Legend

Disaster Image : Sentinel-1
Date : 12 Aug. 2017

- Flood
- River/Permanent water
- Partially submerged crops
- 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 field.

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.

15 August 2017 | FL-2017-0001-IN | Version 1

