

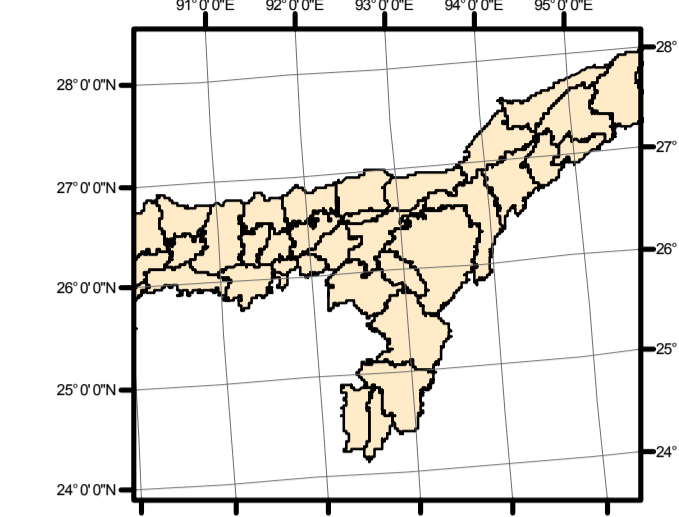
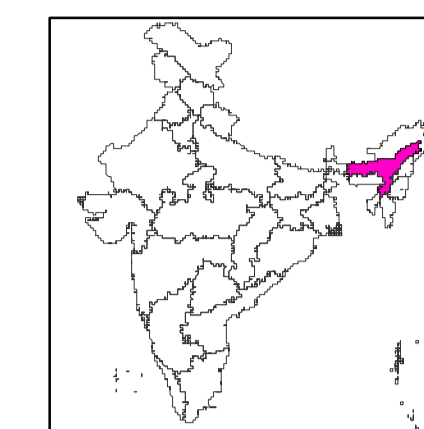
# Cumulative Flood Inundated Areas in Assam State

Based on the analysis of Sentinel-1, RADARSAT-2, RCM Constellation, ALOS-2 PALSAR & SAOCOM 1A satellite data of 10, 15, 16, 17 & 18 Jul 2020

DISASTER EVENT ID: 02-FL-2020-ASSAM  
MAP ID: 2020/21

Date of Issue : 20.07.2020

## Location Map



## About the Event

Floods were reported in Assam during the second week of July, 2020 due to heavy incessant rains followed by rise in water levels of river Brahmaputra and its tributaries. According to Central Water Commission (CWC) report, River Brahmaputra and its tributaries were flowing in Severe flood situation in almost all districts of Assam state. (Source: CWC, newsmedia)

## Satellite Observations

This map highlights the cumulative flood inundation in 33 districts of Assam State during 10 July to 18 Jul 2020

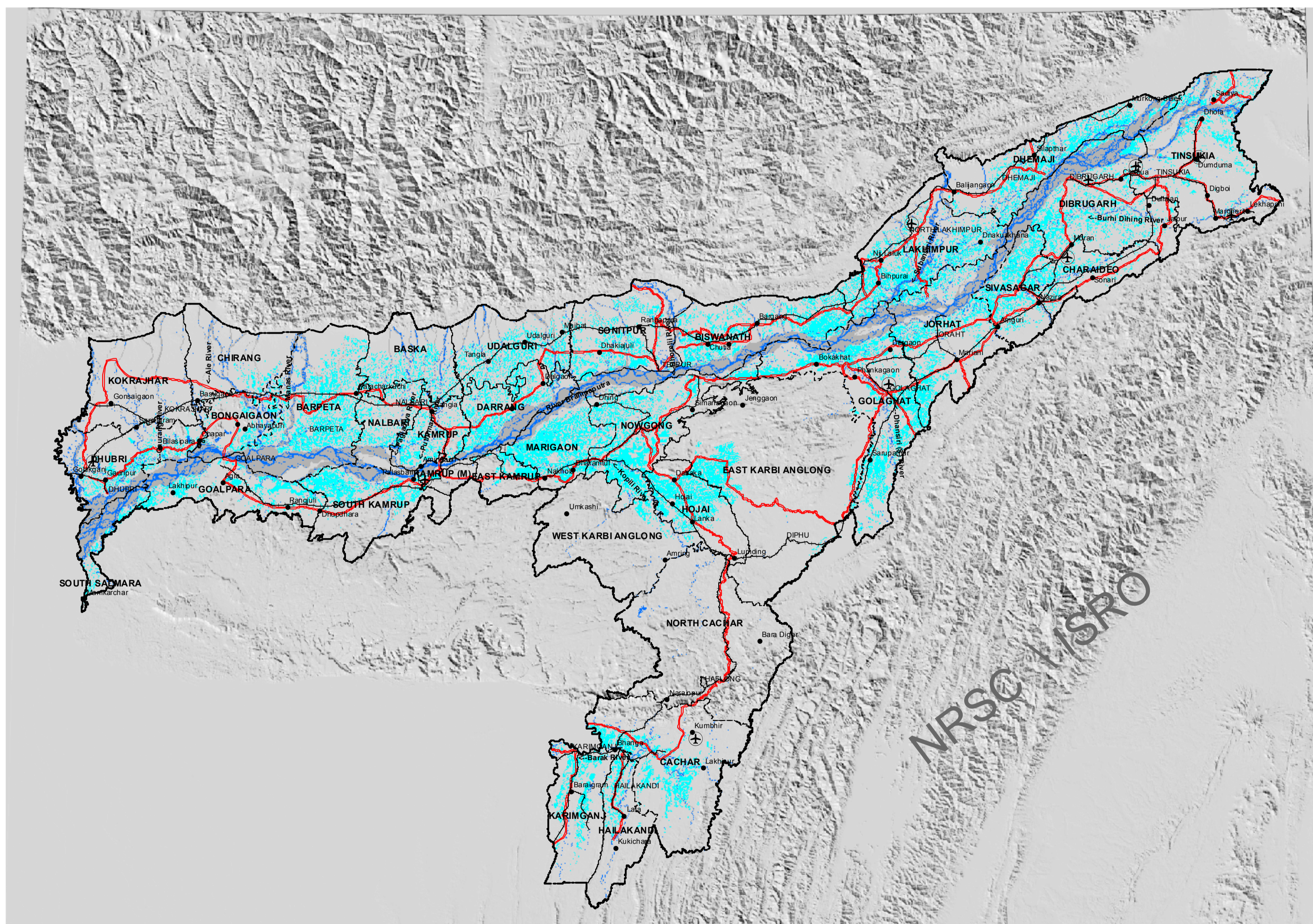
### Satellite data used

Pre Flood:  
Satellite: ResourceSat-2  
Sensor: AWiFS  
Date of Pass: 07-Feb-2020

### Other data used

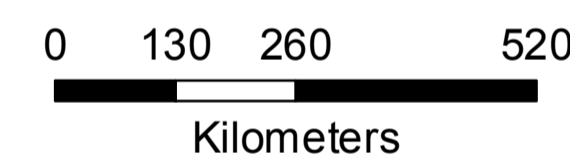
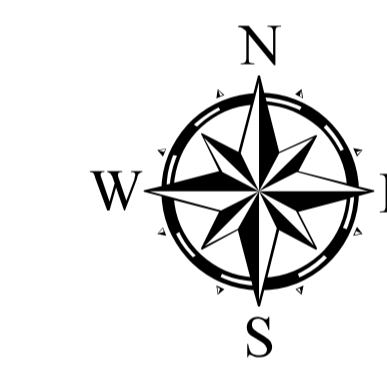
NRC Landuse/Landcover Data  
Background data -- Shaded Relief

Post Flood:  
Sentinel-1 SAR data of 10-07-2020  
RADARSAT-2 SAR data of 15-07-2020  
Sentinel-1 SAR data of 15-07-2020  
RADARSAT-2 SAR data of 16-07-2020  
RCM Constellation SAR data of 17-07-2020  
ALOS-2PALSAR data of 16-07-2020  
SAOCOM 1A SAR data of 16-07-2020  
RCM Constellation SAR data of 17-07-2020  
RCM Constellation SAR data of 18-07-2020



## Legend

- Airport
- Settlement
- State boundary
- District boundary
- Railway Line
- National Highway
- Other Major Roads
- Normal river / Water bodies
- River Bank
- Flood Inundation
- Area Covered By Satellite
- CWC River Gauge- Normal Flood Situation
- CWC River Gauge- Severe Flood Situation



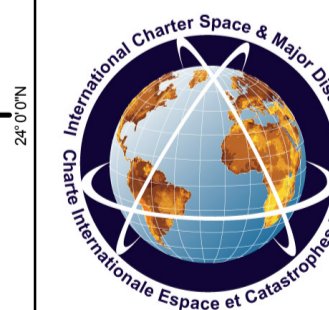
This product is prepared on rapid mapping mode for immediate use and sharing amongst official agencies. This provides preliminary results.

Flood inundation may include rain water accumulation / flood water in low lying areas.

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 SAR Satellite images received under International Charter, Call ID-762 and Sentinel Asia EOR ID 00375



Note: When publishing this map as part of any report, source may be indicated as " NRSC (2020) - Cumulative Flood Inundated areas of Assam State (as on 18 Jul 2020)" dated 20.07.2020 Map no : 2020/21, NRSC/ISRO, Hyderabad

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