

# Cumulative Heavy Rain Inundated areas in Part of West Bengal State

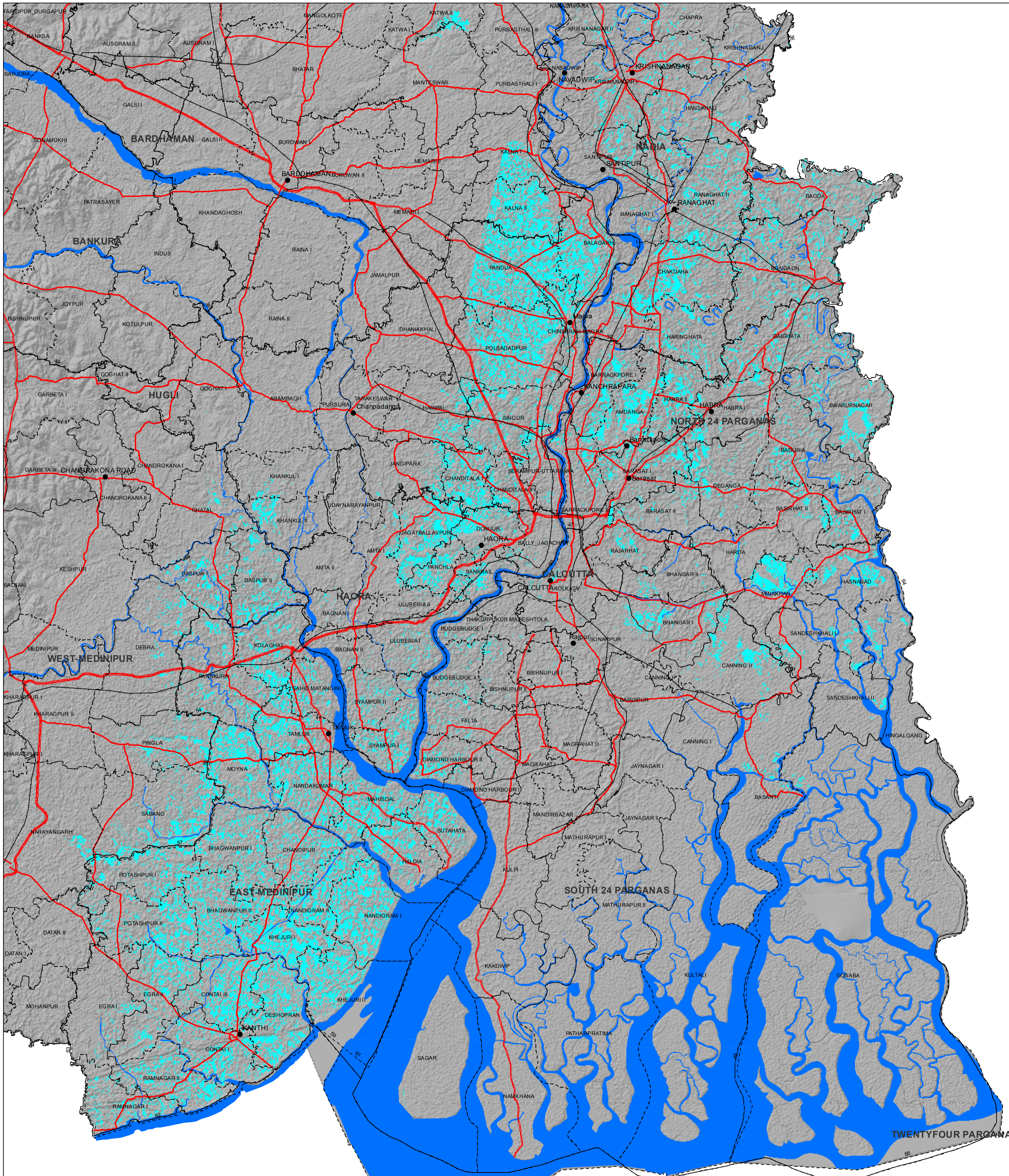
Based on the analysis of RADARSAT-2 SAR, ALOS2 PALSAR NOVASAR SAR, SENTINEL 1 SAR, Terra SAR X & Other sources of images of 21, 22 & 24 -May-2020

For official use

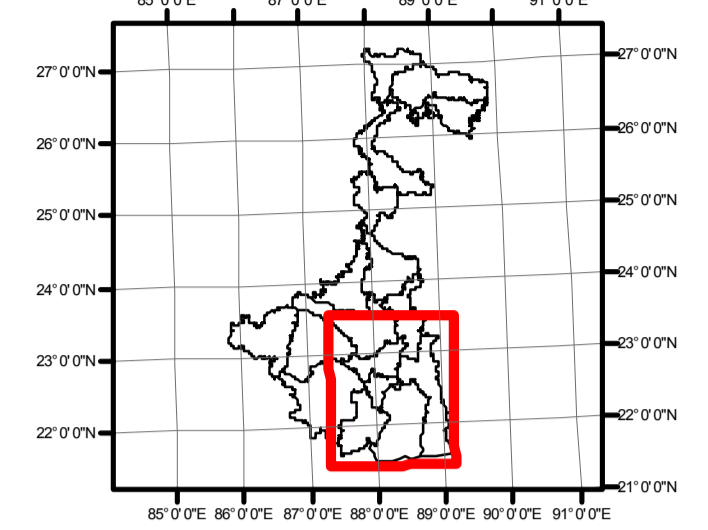
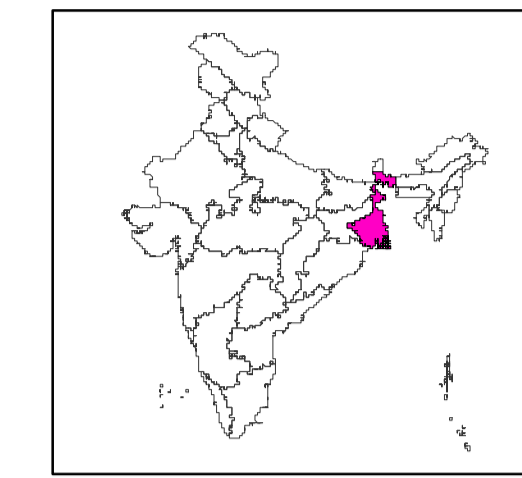
DISASTER EVENT ID: 01-CY-2020-WB/09

MAP ID: 2020/13

Date of Issue : 25.05.2020



## Location Map



## About the Event

Cyclone AMPHAN made the landfall between Digha in West Bengal and Hatia Islands of Bangladesh. Under the influence of the Cyclone, heavy incessant rains and wind induced damage were reported in various parts of West Bengal in the fourth week of May, 2020 (Source: News Media, CWC).

## Satellite Observations

This map highlights the inundation due to rains in 10 districts of West Bengal during 21,22 & 24 -May-2020.

## Satellite data used

Pre Cyclone:  
Satellite: Resourcesat-2  
Sensor: AWIFS  
Date of Pass 01-Mar-2020

Post Cyclone:  
RADARSAT-2 SAR ( C-band) 21-May-2020 (0600 Hrs)  
ALOS-2 PALSAR (L-Band) 21-May-2020 (1130 Hrs)  
SENTINEL-1 AR ( C-band) 22-May-2020 (0600Hrs)  
NOVASAR SAR (S-band) 22-May-2020 (0430 Hrs)  
RADARSAT-2 SAR ( C-band) 21-May-2020 (0600Hrs)  
TerraSAR X ( X-band) 24-May-2020 (1700 Hrs)  
Other source

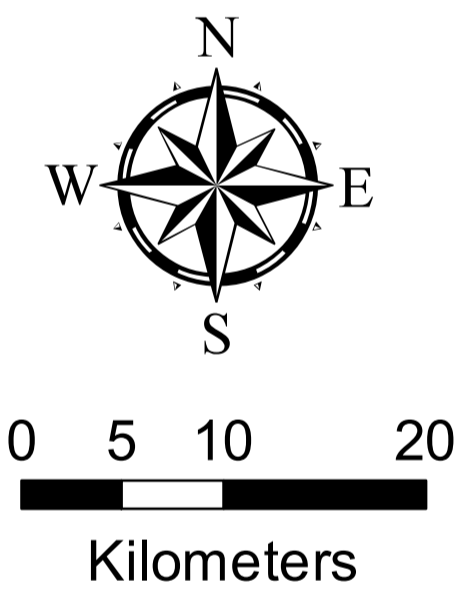
## Other data used

NRC Landuse/Landcover Data

Background Image : Shaded Relief

## Legend

- Settlements
- State Boundary
- - - District Boundary
- District Boundary
- - - Block Boundary
- Railways
- National Highway
- State Highway
- Major Rivers/Water Bodies
- Inundation



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

Inundation may include rain induced inundation / rain 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 RADARSAT-2 SAR, TerraSAR X & SENTINEL 1A SAR satellite images received under International Charter, Call ID-753.



TerraSAR X/TanDEM-X Copyright 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 (2020) - " Cumulative Heavy Rain Inundated areas in part of West Bengal State (as on 24 May 2020) dated 25.05.2020 Map no : 2020/13, NRSC/ISRO, Hyderabad