FLOOD WATERS SURROUNDING CHATAPUR TOWN, SUPAUL DISTRICT, BIHAR STATE
FLOOD ANALYSIS WITH IRS (L-4) (FROM 24 AUGUST 2008) & ENVISAT-ASAR (FROM 31 AUGUST 2008)

Map Information
This map illustrates satellite detected flood waters described in detail surrounding the Tihar HD area of Chatapur, Supaul District, Bihar State occurring on embankment breach on the Koshi River in Nepal on 14 August 2008. Flood water detection was made with IRS (L-4) satellite imagery recorded on 24 August 2008, and a time series of ENVISAT-ASAR (X-Band) radar data recorded on 31 August 2008. Flood detection is a preliminary analysis and has not yet been validated on the field.

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Map Legend
- Adрат 1 Boundary
- Adrat 2 Boundary
- Adrat 3 Boundary
- Village / Building
- Cluster
- Bridge
- Drainage Canal
- Original River Path

SATELLITE IMAGE REFERENCE
Detailed IRS Flood Map (1)
- Vegetation Cover
- Flooded Village
- Road & Bridge "Damaged"
- Standing Flood Waters

ENVISAT-ASAR Flood Map Overview (2)
- Flood Waters on 31 August 2008
- Flood Waters on 27 July 2008
- (Before Retaining Wall Breach)
- Pre-Flood Waters on 22 June 2008

Map Scale for A3: 1:24,000
1 centimeter equals 240 meters

Satellite Data (1) - IRS (L-4 Sensor)
Resolution: 5 m
Date Series: 24 Aug. 2008
Copyright: ISRO (2008)

Satellite Data (2) - ENVISAT-ASAR MM
Resolution: 150 m
Date Series: 22 June, 27 July & 31 Aug. 2008
Copyright: ESA (2008)

Road/Infrastructure: RACISAT & ESA (PARFEX)
Road/Village Data: Google Earth
Other GIS Data: DTM USGS, WHO
Projection: WGS 84 Zone 45 North
Datum: WGS 1984

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Flood Analysis Summary:
A total of 188 village / building cluster sites identified in this map extent, including the Tihar HD area of Chatapur, are either totally or partially submerged by flood waters, as indicated with IRS satellite imagery on 24 August 2008. Additional flood analysis from ENVISAT-ASAR radar data acquisition on 31 August 2008 was also performed. The additional image analysis confirms that this area remains severely flooded.