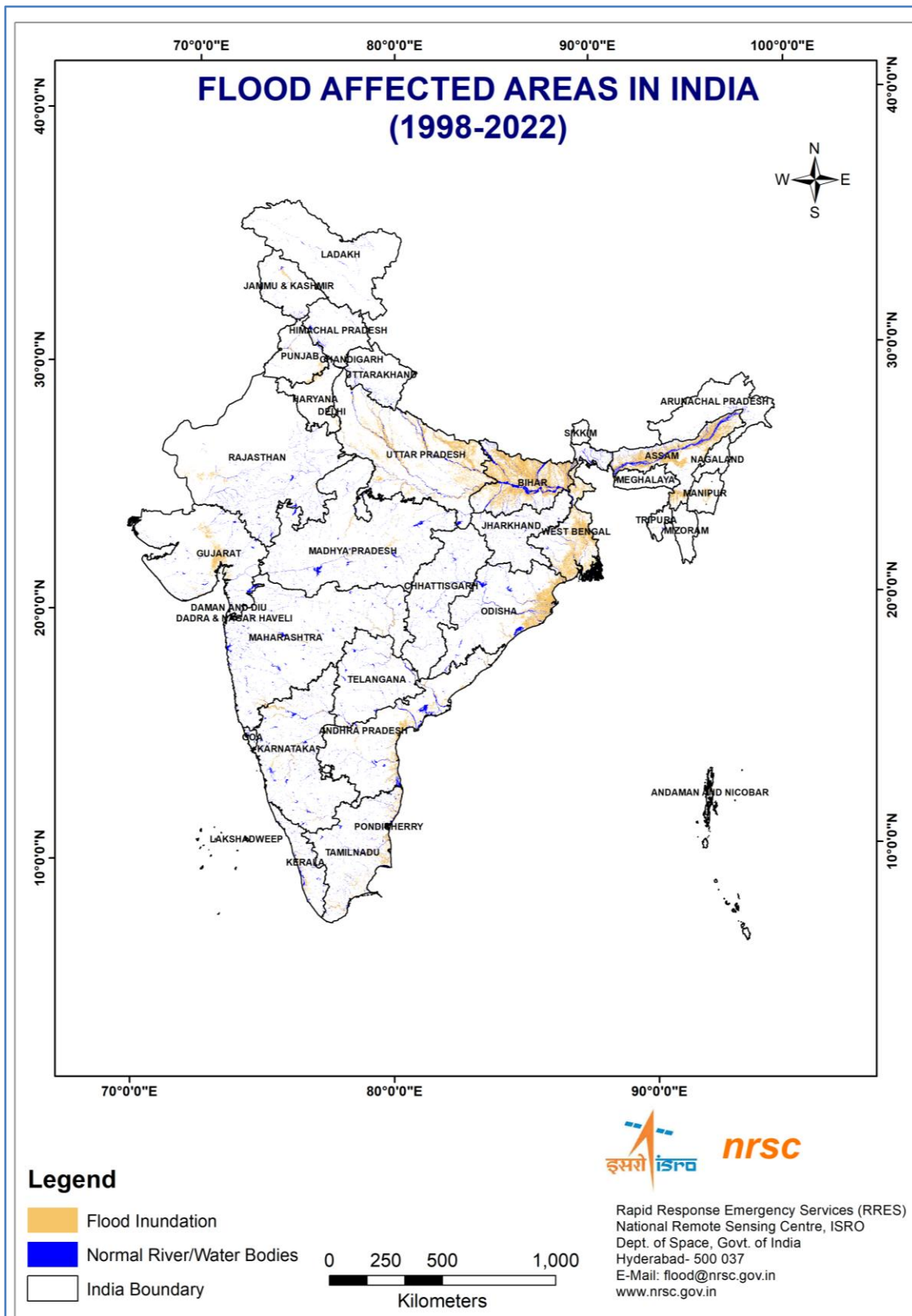


Release of Flood Affected Area Atlas of India - Satellite based analysis

Flood affected area maps are very important input in disaster risk management. These maps are useful in planning and regulating developmental activities in flood plains, construction of relief, rescue, and health centres. Satellites provide synoptic observations of the natural disasters at regular intervals that help in disaster risk reduction in the country. Over a period of time, National Remote Sensing Centre (NRSC), ISRO has created a repository of large data pertaining to the floods & cyclones in different areas of the Country. These historical flood maps, generated by NRSC/ISRO, are useful for identification of flood affected areas. At the behest of the National Disaster Management Authority (NDMA), NRSC/ISRO has prepared the Flood Affected Area Atlas for India using the available historical satellite datasets acquired during 1998 to 2022.

The flood affected area atlas depicts the major flooding in India during the said period as per the satellite data used in the study. District / State wise flood affected area statistics were presented along the State Maps and India Map in the Atlas. Digital spatial maps shall be hosted on National Database for Emergency Management (NDEM) geoportal of ISRO. It would serve as a useful resource of information for policy makers, planners and civil society groups and find its value towards flood risk evaluation, sustainable development and flood mitigation efforts in India. This atlas will be useful in preparing disaster management action plans at state level and in disaster risk reduction in the country.

The atlas has been released by Shri Gajendra Singh Shekhawat, Hon'ble Union Minister, Jal Shakti, during the 3rd Session of National Platform for Disaster Risk Reduction (NPDRR) at New Delhi on 11th March, 2023, in Vignyan Bhavan, New Delhi



Disclaimer : Flood affected area map is a cumulative of flood inundation areas mapped from multi-date satellite data acquired and processed during 1998-2022 covering major flood & cyclone events. Flood inundation may include rain water accumulation / flood water in low lying areas. Estimated flood extent depends on availability of satellite data, it's date of overpass and coverage over flooded areas. Some of the Flash flood events could not be mapped due to non availability of satellite data in short duration. Flood affected area estimated in the study excludes river portion, permanent water bodies, salt pans and aquaculture lands in flood plains. Hence, actual flooded area may be more than the area estimated by satellite images.

Flood Affected Area Map of India as viewed by Satellite Images during 1998 to 2022



ShriGajendra Singh Shekhawat, Hon'ble Union Minister, Jal Shakti, has released Flood Affected Area Atlas - satellite based study during 3rd Session of National Platform for Disaster Risk Reduction (NPDRR) - 2023.

Release of National Database for Emergency Management (NDEM) Version 4.1

NDEM Geportal disseminates space based inputs addressing all natural disasters in all phases at PAN India level with the amalgamation of multi-scale geospatial database coupled with decision support system tools to aid the Disaster Management officials, Relief Commissioners and Decision Makers in disaster risk management. Along with structured multi scale geospatial database elements, NDEM has historical repository of the natural disaster specific products, timely forecasts, warnings, alerts issued by the authorized forecasting agencies.

Keeping pace with the technological developments and user requirements, new version of NDEM 4.1 has been designed and developed with the new features like; Automated forest fire alert system, Lightening occurrence information, fully automated spatial flood early warning systems for the Godavari and Tapi Rivers, District wise nowcast warnings from IMD, Multilingual regional language support, 3D visualization, Exclusive portal for NDRF, etc.

This new version NDEM 4.1 has been launched by the Honourable Union Minister of State for Home Affairs, Shri.NityanandRai, during the 3rd Session of National Platform for Disaster Risk Reduction (NPDRR) at New Delhi on 11th March, 2023, in VignanBhavan, New Delhi.



Release of NDEM 4.1 by the Honourable Union Minister of State for Home Affairs, Shri.NityanandRai, in 3rd NPDRR on 11 March 2023