Request for Nomination of Officials to Participate in ISRO Sponsored One Day Awareness Workshop under Disaster Management Support Programme (DMSP) – reg.

gmrc_w@nrsc.gov.in

Mon 04-11-2024 03:00 PM

To:gmrc_w <gmrc_w@nrsc.gov.in>;

Cc:rakesh <rakesh@nrsc.gov.in>; verma_mk <verma_mk@nrsc.gov.in>;

1 attachments (356 KB)

DMSP_Workshop_Brochure_RRSC-West, Jodhpur_29November2024.pdf;

Dear Sir/Madam,

You might be aware that Regional Remote Sensing Centre-West, NRSC/ISRO, Jodhpur is providing satellite technology-based natural resources management services to several state/ central govt. departments since past 37 years. The centre has also played an important role in the capacity building of officials from state government line departments and other stakeholders to use satellite-based information for various applications.

We are pleased to inform you that One Day Awareness Workshop on “Space-based data, Products & Geospatial Technology based Services for Disaster Management Support with Special Emphasis on Detection and Monitoring of Dust Storm in North Western States of India” is being organized on **29 November 2024**. A total of 50 officials from various state and central governments organizations/institutions as well as faculties / students from academia are expected to join.

The objective of this training programme is to create awareness towards utilization of space technology based innovative methods and data products/services especially in the field of disaster management. Broad overview of this training is attached for your reference.

There is no registration fees for this workshop. Free accommodation will be provided for the outstation participants at ISRO Guest House on request (shareable basis). However, the travel cost is to be borne by the nominating organisation or by self.

We request you to nominate 3-4 officials of your department/organization (with contact details: Name, Email, and Mobile number) to participate in above training programme sponsored by ISRO.

We will intimate the list of selected officials in due course of time.

You may contact the Course Coordinators for further details.

Shri Rakesh, Sci./Engr. - 'SE' (rakesh@nrsc.gov.in, 0291-279 6399)

Shri Manish Kumar Verma, Sci./Engr. - 'SD' (verma_mk@nrsc.gov.in, 0291-279 6388)

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सादर / Regards,

महाप्रबंधक कार्यालय / General Manager Office
क्षेत्रीय सुदूर संवेदन केंद्र-पश्चिम / Regional Remote Sensing Centre-West
राष्ट्रीय सुदूर संवेदन केंद्र / National Remote Sensing Centre
इसरो/अंतरिक्ष विभाग / ISRO/Department of Space
भारत सरकार / Government of India
जोधपुर / Jodhpur - 342 005
दूरभाष सं. / Telephone No. : 0291-2796395

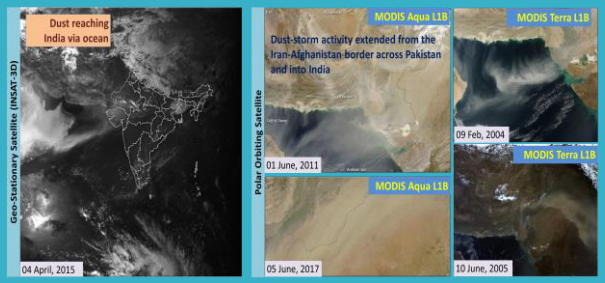
Encl.: Brochure of DMSP Workshop

ISRO Disaster Management Support - Capacity Building Program

India is prone to many natural disasters like floods, landslides, cyclones, forest fires, earthquakes, drought etc. Satellites provide synoptic observations of natural disasters at regular intervals that help in better planning and management of disasters.

ISRO's Disaster Management Support Programme (DMSP) has been actively supporting the Central and State Governments by providing operational services during various time-frames of disasters using Earth Observation Systems. ISRO disseminates relevant information in interactive geo-spatial domain through various geoportals like Bhuvan, National Database for Emergency Management and MOSDAC for the administrators for improved decision support.

ISRO's DMSP emphasizes capacity building in space technology for disaster management, encouraging innovative tools and data solutions. This initiative aims to strengthen disaster response across different administrative and landscape levels in India.

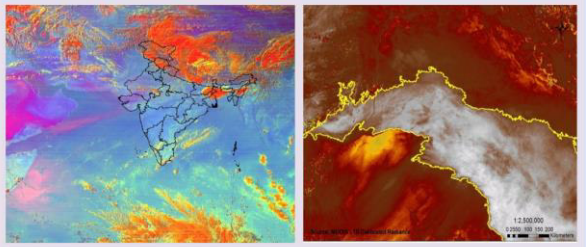


Why Detection & Monitoring of Dust Storm is important?

Dust and sand storms are meteorological phenomena common in arid and semi-arid regions, occurring when a gust front moves through or when wind speed exceeds a threshold, lifting loose sand and dust from dry surfaces. In India, around 13.5% of the country's land area is impacted by wind erosion, with the majority in the Thar Desert, which spans western Rajasthan, northern Gujarat, and parts of Punjab and Haryana.

These desert dust storms significantly increase dust aerosol levels in the atmosphere and are key drivers in the global distribution of dust aerosols. Dust storms also carries bacteria and spores that can spread diseases over vast distances, impacting human health far from the storm's origin. Regular monitoring of global aerosol distribution, particularly for aerosols with high spatial and temporal variability like smoke, sand, and dust is crucial to understanding and managing their environmental and health effects.

Monitoring of Dust Storm using Satellite Imagery



One Day Workshop on Space-based data, Products & Geospatial Technology based Services for Disaster Management Support with Special Emphasis on Detection and Monitoring of Dust Storm in North Western States of India

29th November 2024

Organized by

Regional Remote Sensing Centre – West
National Remote Sensing Centre
Indian Space Research organisation
Jodhpur – 342005

Sponsored by

ISRO Disaster Management Support Programme

Program Outcomes

- Introduction to Indian Space Programme and ISRO's DMSP with special emphasis on dust storm detection and monitoring
- Concepts of Remote Sensing, Geographic Information Systems (GIS) and GPS
- Digital Image Processing and GIS analysis
- Data access through Bhuvan, Vedas, MOSDAC and other open access data portals
- Deserts and Disasters – an overview
- Dust Storm Formation, and Types of Events
- Environmental and Meteorological Conditions Associated with Dust Storms
- Remote Sensing Sensors for Dust storm detection and monitoring
- Dust Storm Warning Advisory and Assessment System.

Who Can Apply

- Officials / Research Officers of National / State Organizations / Institutes working in the field of Disaster Management
- Officials from State / District / Local body Administration / Research Scholars
- Indian citizens only

Course Fee / Registration / Logistics / Accommodation

- There is NO fee as the course is sponsored under ISRO's DMSP.
- Accommodation will be provided at RRSC-W, Jodhpur Transit House on sharing basis.
- Travel cost is to be borne by nominating agency or by participants.
- Nomination may be sent by email to **gmrc_w@nrsc.gov.in**

About the Organising Centre

National Remote Sensing Centre (NRSC) is one of the primary centers of ISRO. NRSC has the mandate for establishing ground stations to receive satellite data, generation of data products, data dissemination, technology development for remote sensing applications including disaster management support, geospatial services for good governance and capacity building. NRSC operates through multiple campuses across India to meet the requirements both at national and regional levels for remote sensing data and its applications.

Regional Remote Sensing Centres (RRSCs) are located at Jodhpur (RRSC-West), Kolkata (RRSC-East), Bangalore (RRSC-South), Nagpur (RRSC-Central) and Delhi (RRSC-North) with its headquarters at NRSC, Hyderabad. RRSC-West became operational in 1988, and since then, it has carried out multifarious national, regional and local projects for various users involving Central, State governmental agencies, NGOs, private and public sector agencies using geospatial technologies. Some of the unique projects carried out by RRSC-West are also towards tackling regional issues like disasters.

Important Dates

Last date for registration : 22th Nov., 2024
Date of confirmation : 25th Nov., 2024
Mode of Course : Offline
No. of Seats / Participants : 50

Contact

Dr. Apurba Kumar Bera
General Manager
Email: gmrc_w@nrsc.gov.in
Phone: 0291- 279 6395

Course Coordinators

Shri Rakesh, Sci./Eng.- 'SE'
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Address

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ISRO Complex, Sector-9
Kudi Bhagtasani Housing Board,
Bypass Road, Jodhpur 342005