



Kerala State Disaster Management Authority

Sendai Framework for Disaster Risk Reduction (SFDRR) 2015-2030

Report – Webinars conducted in the month of June, 2022

The Sendai Framework on Disaster Risk Reduction (SFDRR - 2015-2030) is an ambitious agreement that sets out the overall objective to substantially reduce disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries (UNECE, 2022). Overall goal of the SFDRR is to "Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen resilience." SFDRR is set to work on the basis of seven global targets and four priorities for action to achieve the declared global targets.

The declared seven global targets are:

1. Reduce disaster mortality.
2. Reduce the number of affected people.
3. Reduce direct disaster economic loss in relation to global gross domestic product (GDP) by 2030.
4. Reduce disaster damage to critical infrastructure and disruption of basic services (health and educational facilities).
5. Increase number of countries with national and local DRR strategies.
6. Enhance international cooperation and support to developing countries.
7. Increase the availability of and access to multi-hazard early warning systems and disaster risk information and assessments to the people.

In order to achieve the declared global targets by 2030, four priorities for action were identified and are:

Priority 1: Understanding disaster risk.

Priority 2: Strengthening disaster risk governance to manage disaster risk.

Priority 3: Investing in disaster risk reduction for resilience.

Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction.

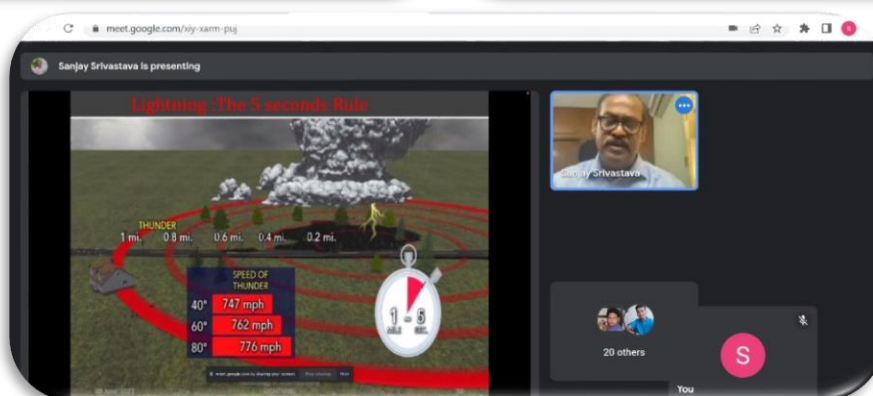
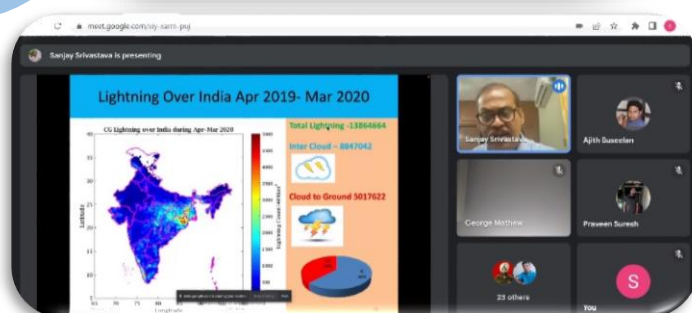
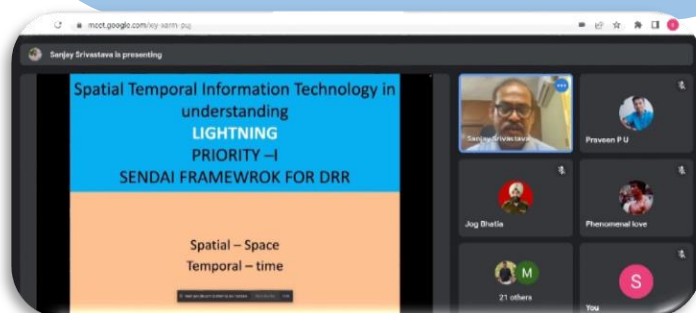
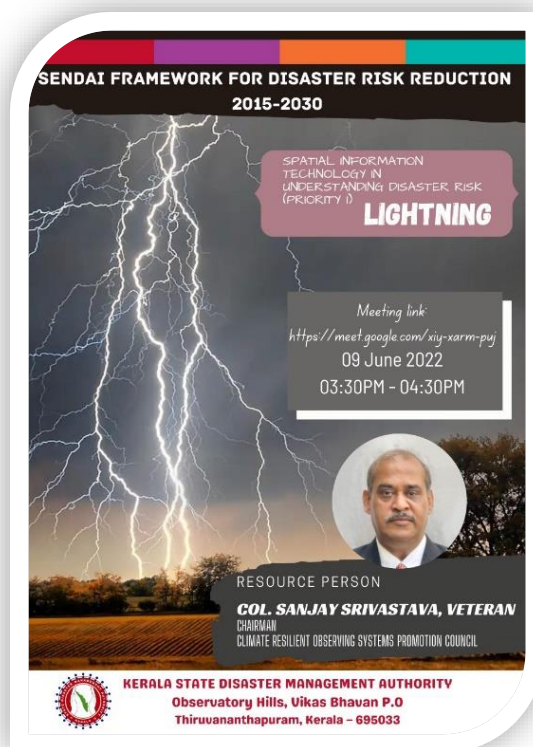
Understanding the need for achieving the goals of SFDRR, Kerala State Disaster Management Authority (KSDMA) is organizing webinar on the theme “Understanding Disaster Risk (Priority-1)” (Spatial Information Technology in Understanding Disaster Risk), by considering the notified disasters occurring in the state (Major disasters notified by the Government of India and state specific disasters notified by the Government of Kerala).

Webinar – 01

Topic: Spatial Information Technology in Understanding Disaster Risk (Priority-1) Lightning.

Date: 09/06/2022, Time: 3.30 pm to 4.30pm

Col. Sanjay Srivastava (Veteran), Chairman, Climate Resilient Observing Systems Promotion Council (CROPC), was the guest speaker and resource person for the webinar on Lightning. Col. Srivastava started the session by explaining the basics of cloud and lightning physics and its impact on surface features. He detailed the current status of research in the field of lightning in India. Spatial distribution of lightning detector sensors in India, lightning early warning public notification systems were also discussed in detail. Further, he presented the spatial distribution of lightning hits in India during 2019, 2020 and 2021 with the number of fatalities reported during the period. While briefing this, he pointed out the best practices which need to be followed to avoid casualties during lightning. More than 60 participants from various organizations, educational institutions and publics attended the event. After the presentation, there was an interactive session. The session was concluded by 4.30 pm.



Figures: Screen shots of the webinar.

Webinar – 02

Topic: Spatial Information Technology in Understanding Disaster Risk (Priority-1) Tsunami.

Date: 13/05/2022 Time: 3.30 pm to 4.30pm

Sri. Ajay Kumar B, Scientist D, Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, Telangana was the resource person for the webinar on Tsunami. He started the session by explaining plate tectonics which cause tsunami, characteristics of the tsunami, Indian Ocean tsunami (2004) and potential tsunamigenic zones. Further, he detailed about Indian tsunami monitoring programme which includes seismic event assessment to risk management. He also elucidated the role of INCOIS in monitoring and modelling the tsunami in Indian Ocean, SOP for ITWEC, different warning bulletins issued by INCOIS, Indian Ocean Tsunami Warning and Mitigation Service and tsunami ready programme implementation for the coastal regions. After the presentation, there was an interactive session. More than 78 participants from various organizations, educational institutions and publics attended the event. The session was ended by 4.30

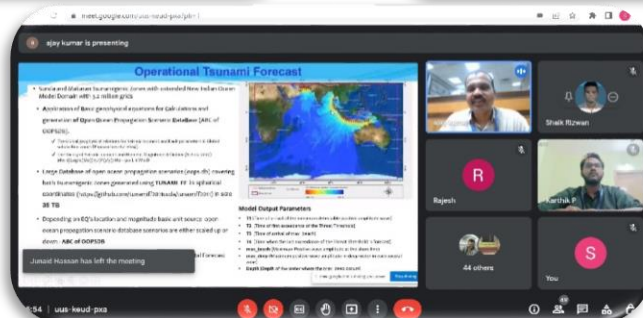
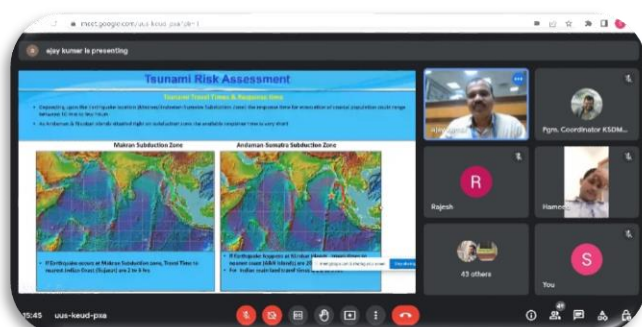
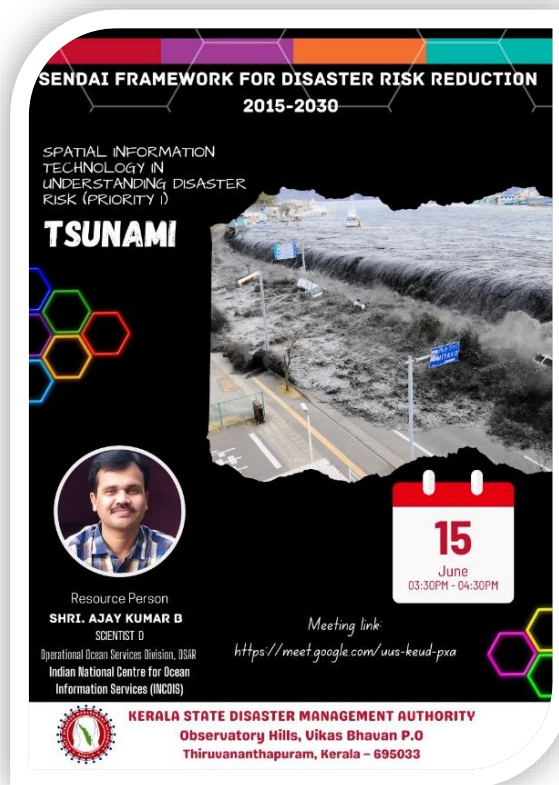


Figure: Screen shot of the webinar.

Webinar – 03

Topic: Understanding Disaster Risk (Priority-1) Extreme Weather Events.

Date: 25/06/2022, Time: 3.30 pm to 05.00 Pm

Dr. Susmitha Joseph, Scientist E, Deputy Project Director (ERPS), Officer-in-Charge (IMPO), Indian Institute of Meteorology (IITM), Pune, Maharashtra was the guest speaker and resource person for the webinar on Extreme Weather Events (EWE). Session was started on time (3.30pm) and Dr. Susmitha briefly explained about extreme weather events, with special emphasis on cyclones. Every detail of cyclones from formation and parts of a cyclone to seasonal characteristics of cyclones was discussed in her lecture. She also reviewed about the factors affecting weather and climate and current status of NWP models and its limitations. She concluded the presentation with a take home message about EWE and NWP. More than 80 participants from various organizations, educational institutions and publics attended the event. After the presentation, the topic was open to discussion and this session alone extended another 30minutes. The session was concluded by 05.00 pm.

SENDAI FRAMEWORK FOR DISASTER RISK REDUCTION
2015-2030

SPATIAL INFORMATION TECHNOLOGY IN UNDERSTANDING DISASTER RISK (PRIORITY 1)

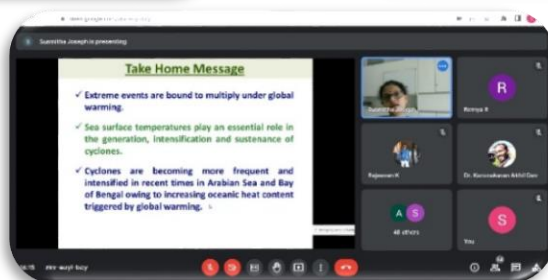
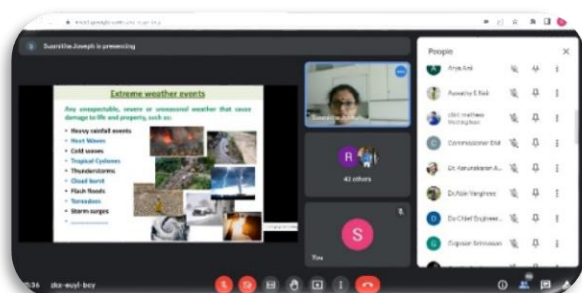
EXTREME WEATHER EVENTS

25 June 2022
03:30PM-04:30PM

Meeting link
<https://meet.google.com/zkx-euyj-bcy>

Resource Person
Dr. Susmitha Joseph
SCIENTIST E
Deputy Project Director, Extended Range Prediction (ERPS)
Officer-in-Charge, International Monsoons Project Office (IMPO)
Indian Institute of Tropical Meteorology, Pune, Maharashtra

KERALA STATE DISASTER MANAGEMENT AUTHORITY
Observatory Hills, Vikas Bhavan P.O
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Figures: Screen shot of the webinar.