

Flooding constitutes the most prevalent and costly natural disaster in the world. A variety of mitigation measures can be implemented to minimize the impact of flooding. Flood forecasting is one of the best non-structural methods of flood damage mitigation methods being adopted globally. Flood forecasting in large catchments has been a challenging task for the hydrologists due to its spatial and temporal variability. Flood forecasting using hydrological modelling techniques can replace the conventional methods of forecast with the improved forecast lead-time and more accurate flood discharge estimation. Due to availability of very high resolution digital terrain models, advanced hardware and softwares, spatial flood early warning and alarming is gaining momentum in recent years. Satellite technology can provide very vital information on the hydrology and topography of the catchment that plays a major role in spatial flood early warning.

The 2-day training programme will focus on the overview of the role of Earth Observation (EO) technologies in flood forecasting and spatial flood inundation modelling using hydrological and hydrodynamic modelling techniques. The objective of the programme is to appraise the participants from Sentinel Asia member countries about the potential and current status of utilization of EO technologies for operational spatial flood early warning.

The programme consists of Expert lectures, interactive sessions and panel discussion to make it more impactful. Scope for augmenting technology applications, research gaps, data limitations, knowledge sharing opportunities will be discussed for future course of action towards promoting the technology for flood disaster risk reduction.

Schedule

Day- 1 (27 October, 2021 from 10:00 hours IST)

| Organization | Duration |
|--------------|--|
| NRSC/ISRO | 3 minutes |
| | 7 minutes |
| EDPO/ISRO | 5 minutes |
| IWMI | 5 minutes |
| NRSC/ISRO | 5 minutes |
| NRSC/ISRO | 2 minutes |
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| NRSC/ISRO | 45 minutes |
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| NRSC/ISRO | 5 minutes |
| IMD | 45 minutes |
| NRSC/ISRO | 45 minutes |
| IIT-B | 45 minutes |
| IWMI | 45 minutes |
| | |
| | 30 minutes |
| | 15 minutes |
| NRSC/ISRO | 2 minutes |
| | EDPO/ISRO IWMI NRSC/ISRO NRSC/ISRO NRSC/ISRO NRSC/ISRO NRSC/ISRO NRSC/ISRO NRSC/ISRO INTSC/ISRO IMD NRSC/ISRO IIT-B IWMI |