

**Web based TREES Training Programme on  
Satellite based Flood Assessment and Modeling**

**Dates:03-05 November 2020**

| Time   | Day-1 (03 November 2020)<br>Role of Remote Sensing in Flood Management   |   |
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| 9:45-10:00   | Inauguration<br>Opening Remarks-Overview of TREES- Dr. S P Vyas, Head-ERTD<br>Welcome Address By Dr. Raj Kumar, DD, EPSA |   |
| 10:00-10:45  | Overview of EPSA Activities  | Dr. Rajkumar  |
| 10:45-11:00  | <b>Tea break</b>   |   |
| 11:00-12:00  | Remote sensing applications in Hydrology   | Dr. R. P. Singh   |
| 12:00-13:00  | Flood Assessment using Remote Sensing and Modeling   | Dr. P. K. Gupta   |
| 13:00-14:00  | <b>Lunch break</b>   |   |
| 14:00-15:00  | Role of Himalayan Glaciers in Water Resources  | Dr. I. M. Bahuguna                                      |
| 15:00-17:00  | Remote Sensing and Image Processing Tutorial   | Shri Rohit Pradhan                                      |
| Day-2 (04 November 2020)<br>Satellite based Flood Assessment |  |   |
| 9:45-10:45   | Flood Assessment using Synthetic aperture Radar  | Shri V. B. Jha  |
| 10:45-11:00  | <b>Tea break</b>   |   |
| 11:00-12:00  | Flood assessment using Altimetry   | Dr. Shard Chander                                       |
| 12:00-13:00  | Flood Assessment using Passive Microwave Radiometry  | Ms Nimisha Singh  |
| 13:00-14:00  | <b>Lunch break</b>   |   |
| 14:00-17:00  | Tutorial on Altimeter, SAR and Passive Radiometer data analysis  | Dr. Shard Chander, Shri V. B. Jha and Ms Nimisha Singh  |
| Day-3 (05 November 2020)<br>Flood Modeling                   |  |   |
| 9:45-10:45   | Real time flood forecasting and dissemination using WRF-HYDRO model  | Dr. Amit Dubey  |
| 10:45-11:00  | <b>Tea break</b>   |   |
| 11:00-12:00  | Urban Flooding   | Dr. Gaurav Jain   |
| 12:00-13:00  | Glacier Lakes Outburst Flood (GLOF) Modeling   | Shri B. P. Rathore/ DR. I.M. Bahuguna                   |
| 13:00-14:00  | <b>Lunch break</b>   |   |
| 14:00-15:30  | Tutorial on Hydrological Modeling  | Dr. Amit Dubey, Ms Nimisha Singh and Shri Rohit Pradhan |
| 15:30-16:00  | VEDAS Overview   | Shri S A Sharma   |
| 16:00-17:00  | <b>Question-Answer and Feedback Session</b>  |   |