



Regional Analysis Tools for Calculating the Magnitude of Extreme Floods

Detailed Agenda

The workshop will consist of pre-recorded videos with opportunities to ask questions between each video as well as using live chat during the playing of the videos. Time estimates include playing of the video and questions/answers.

December 9 – Regional Flood Frequency Analysis

- 9:00 (10-min) Introduction
- 9:10 (5-min) Regional Flood Analysis Methodologies
- 9:15 (10-min) Data quality control
- 9:25 (20-min) Single station flood frequency analysis
- 9:45 (20-min) Historical extreme flood information
- 10:05 (10-min) Incorporating historical information into single station frequency analysis
- 10:15 (10-min) Break
- 10:25 (30-min) Regional Flood Frequency Analysis
- 10:55 (65-min) Example problems, questions and discussion
- 12:00 End

December 10 – Regional Precipitation Frequency Analysis

- 9:00 (5-min) Introduction
- 9:05 (10-min) Canadian Data acquisition and quality control
- 9:15 (10-min) US Data acquisition and quality control, AMS Extraction
- 9:25 (10-min) Previous studies
- 9:35 (25-min) Storm typing procedures
- 10:00 (10-min) Break
- 10:10 (50-min) Regional point precipitation frequency analysis
- 11:00 (10-min) Scalable Temporal Storm Patterns
- 11:10 (50-min) Assignment using MetPortal, questions/discussion, limitations
- 12:00 End

December 11 – Probable Maximum Precipitation

- 9:00 (5-min) Introduction
- 9:05 (10-min) The history of PMP approach
- 9:15 (10-min) New approach to estimating PMP
- 9:25 (5-min) Storm search methodology
- 9:30 (30-min) Storm Analysis (sources, SPAS v MetStorm, Error Stats, DAD)
- 10:00 (10-min) Break
- 10:10 (5-min) Storm maximization
- 10:05 (20-min) Storm transposition, ESTP & Transposition points for assessment of PMP
- 10:25 (10-min) Seasonality of PMP
- 10:35 (10-min) Quantification of Uncertainty
- 10:45 (75-min) Assignment using MetPortal, questions/discussion
- 12:00 End