

AMS 2025 Short Course before the AMS Annual Meeting
Satellite Applications for Rainfall Rates and Flood Prediction
January 12, 2025

Short Course description: Participants will learn about GOES-R and JPSS satellite product applications and models related to rainfall and flood events, and engage in hands-on exercises to investigate case studies using the products and models. At the end of the short course, participants will have developed an understanding of the satellite data and products pertaining to precipitation forecasting.

Time	Session Title	Instructors
8:00 AM CST 8:20 AM CST	Coffee / Network Introduction/Course Summary	Sherrie Morris, STC for GEO Program Office Gary McWilliams, STC for LEO Program Office
8:30 AM CST	Geostationary Earth Observations (GEO) Program - Current and Future	Dan Lindsey, NOAA/NESDIS/GEO Program
8:45 AM CST	Low Earth Orbit (LEO) Observations Program - Current and Future	Satya Kalluri, NOAA/NESDIS/LEO and JPSS Programs
9:00 AM CST	EOTEC DevNet	William Straka, CIMSS/SSEC, NOAA/JPSS
9:15 AM CST	GEO and LEO Rainfall Rate Products such as Quantitative Precipitation Forecasts (QPE) Total Precipitable Water (TPW) Enterprise Rain Rate (eRR)	John Forsythe, CIRA Dan Bikos, CIRA
10:45 AM CST	COFFEE BREAK	
11:00 AM CST	Hands-On Exercise Case Study	John Forsythe, CIRA Dan Bikos, CIRA
12:00 PM CST	LUNCH	
1:00 PM CST	Flood Inundation Extent using REOF analysis (FIER)	Dr. Hyongki Lee, University of Houston
2:00 PM CST	COFFEE BREAK	
2:15 PM CST	Hands-on Exercise Case Study	Amirhossein Rostami, University of Houston
3:15 PM CST	Course Wrap Up	Sherrie Morris, STC for GEO Program Office Gary McWilliams, STC for LEO Program Office
3:30 PM CST	Adjourn	

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