## PLOTTING IN PYTHON WITH METPY: GEMPAK-LIKE PLOTS MADE EASY

## SHORT COURSE ORGANIZER

Ryan May, UCAR/Unidata, Boulder, CO Zach Bruick, UCAR/Unidata, Boulder, CO Kevin Goebbert, Valparaiso University, Valparaiso, IN

## SUN 12 JAN

8:30 а.м.	<ul> <li>ARRIVAL AND INTRODUCTIONS Ryan May</li> <li>Introduce speakers, their backgrounds. Have participants quickly state their names and what they hope to gain from the course.</li> </ul>
8:45 а.м.	<ul> <li>SETUP USER SYSTEMS Ryan May</li> <li>Install required software for the course and get a copy of course materials.</li> </ul>
9:15 а.м.	<ul> <li>SIPHON FOR REMOTE DATA ACCESS Zach Bruick</li> <li>Demonstrate the use of Siphon to access remote datasets through a variety of services that permit downloading all or portions of datasets</li> </ul>
10:00 а.м.	COFFEE BREAK
10:30 а.м.	<ul> <li>SKEW-T ANALYSIS Kevin Goebbert</li> <li>Use Siphon to download radiosonde from remote data sources</li> <li>Use MetPy's SkewT plotting functionality to plot the data</li> <li>Explore adding various derived information</li> </ul>
11:15 а.м.	<ul> <li>IMAGE PLOTS AND SATELLITE DATA Ryan May</li> <li>Learn basics of how to use MetPy's simplified plotting interface</li> <li>Download remote, real-time GOES satellite data</li> <li>Use MetPy's image plotting capabilities to plot this information on a map</li> <li>Explore the various options for customization of the plots</li> </ul>
12:00 р.м.	LUNCH (on your own)
1:15 р.м.	<ul> <li>MODEL DATA Kevin Goebbert</li> <li>Explore using Siphon to access remote collections of forecast model output</li> <li>Learn how to use additional plot types for visualizing gridded data, like contours and barb plots</li> <li>Explore combining multiple plots on a single map</li> </ul>
2:00 р.м.	<ul> <li>OBSERVATIONS AND STATION PLOTS Zach Bruick</li> <li>Learn how to access observation data from remote servers</li> <li>Plot observations using MetPy's station model plotting support</li> </ul>
2:30 р.м.	COFFEE BREAK
2:45 р.м.	<ul> <li>GUIDED PRACTICE All Instructors.</li> <li>Attendees use this time to develop plots of their own using what they have learned</li> <li>For GEMPAK users, this is a time to try to port some existing GEMPAK-based scripts</li> </ul>
3:35 р.м.	<ul> <li>WRAP UP</li> <li>Gather feedback from participants on how the course will be of use to their work and general course feedback.</li> </ul>
3:45 р.м.	ADJOURN
4:00 р.м.	AMS ANNUAL MEETING PRESIDENTIAL FORUM