

Report on 2023 METplus Advanced Training Sessions

John Opatz^{1,2}, Tara Jensen^{1,2}

¹National Center for Atmospheric Research/Research Applications Lab (NCAR/RAL)

²Developmental Testbed Center (DTC)

The 2023 METplus Advanced training series was a progressive continuation of the 2021-2022 METplus training series, focusing on more specialized topics and unique applications of the METplus tools to solve real-world applications. The lessons were structured on the assumption that users had a working knowledge of the METplus system, which allowed more of the session time to be devoted to examples and answering audience questions. Based upon feedback gathered from the first training series, session dates were moved to Wednesdays at 9 AM Mountain Time (MT) to accommodate more attendees from the various time zones. Sessions were also expanded from 1 hour to 2 hours for the Advanced series, to provide more time to presenters for demonstration of the topics covered. The series was kept as online only, consistent with the first training series. Due to funding limitations and to allow for a break over the summer months, the advanced training sessions were split into two groups: the first group was held in the spring of 2023, with the second group of sessions resuming in the fall of 2023.

The first session began on Wednesday, April 19th at 9 AM MT, which started with an overview of the METplus system, an outline of upcoming session topics, covered the basics of cloud computing in Amazon Web Services (AWS), and demonstrated some of the existing use cases utilizing the GridStat and SeriesAnalysis tools of METplus on AWS. There had been an additional goal to show attendees how NOAA's Open Data Dissemination (NODD) program on AWS could be utilized by the cloud METplus, but complications in accessing the data arose and it was decided to hold an additional session at a later time where that topic could be properly demonstrated. There were approximately 33 attendees. The following is a list of the additional seminar dates and topics, as well as the attendance of each training date:

- Session 2

- Date: May 3rd, 2023
- Topics covered: CPC usage of METplus for S2S diagnostics, as well as community contributions to METplus in the S2S verification realm
- Attendance: 34 (this marked the highest attendance of the series)
- Additional Information: This session included a 1 hour presentation by NOAA CPC members Johnna Infanti and Justin Hicks.

- Session 3
 - Date: May 10th, 2023
 - Topics covered: GridStat and SeriesAnalysis configurations using METplus in the cloud
 - Attendance: 25
 - Additional information: Because this was a continuation of Session 1 and only needed to cover the remaining use cases and NODD, the session time was kept to 1 hour.

- Session 4
 - Date: May 17th, 2023
 - Topics covered: METplus applications in marine and cryosphere settings
 - Attendance: 22