

Final report for 2013 Unidata Equipment Awards project to University of Miami

" A Proposal Submitted to Unidata Program Center (UPC) Equipment Awards"

PI: Brian Mapes. May 16, 2014.

We purchased a high-end Linux server, now named `weather.rsmas.miami.edu` (hereafter Weather). With close support from Unidata, it has been configured as essentially a clone of motherlode (the main Unidata server), with the whole suite of Unidata software successfully running. Unidata staff report that the process was useful for them to make a checklist of interdependent installation and configuration steps for future installations (the "Unidata-in-a-box" idea). Our rolling archive of recent weather data is the equal of what Unidata serves out, with a few enhancements based on local interests here in Miami.

Weather is also hosting many custom local datasets, including an OpenDAP-enabled archive (thanks to Geode Systems' RAMADDA software) of data from the DYNAMO field campaign and some other data-intensive projects. The RAMADDA front face of weather is, predictably, <http://weather.rsmas.miami.edu/repository>. The repository also hosts many aspects of the Mapes IDV collection, which comprises a catalog of IDV bundles, many virtual aggregations that add value to distributed but scattered datasets, and other resources meant to boost new IDV users to higher-level functionality without having to build as many skills from scratch.

To increase visibility, the PI presented a departmental seminar in the fall, and used interest to sign up a core of participants. That core group helped us schedule a Spring semester regional IDV training and Director's introduction to Unidata's broader mission and plans (see attached photos, and the blog post at [http://www.unidata.ucar.edu/blogs/news/entry/unidata\\_regional\\_workshop\\_at\\_the](http://www.unidata.ucar.edu/blogs/news/entry/unidata_regional_workshop_at_the)). Weather rather than motherlode was used as our source of satellite data, and worked well. Over twenty participants were trained, and a cohort of interested Miami users now ensure that Weather will be maintained as a valued asset for many years.

The PI has also been giving seminars advertising Unidata's great contributions to my recent teaching and research, including at NCAR where it was filmed and is available at <http://www.unidata.ucar.edu/community/seminars/index.html#2014>, but also the University of Wisconsin, Lawrence Berkeley Laboratory of the DOE next week, the University of Reading in the UK in June, and anywhere else my seminar invitations lead me.



Participants at the University of Miami regional IDV training.



Unidata staff and participants relaxing and mingling after a long day of IDV training.