

UML Outreach Programs – Silas Laycock

Potential to increase NEROC outreach



Open Radar Workshop - April 2017 Funded by Facility Outreach



Involvement in Schools for Developing Countries



2014, 30 June – 11 July; African School on Space Science: Related Applications and Awareness for Sustainable Development of the Region, Kigali (Rwanda), Directors: C. Amory, P. Doherty, B. Nava, S. Radicella and J. Uwamahoro.

2015, 2-13 March; Workshop on Ionospheric Effects on SBAS and GBAS Applications at Low Latitudes, Trieste, Directors: S. M. Radicella, P. Doherty, B. Nava.



2016, 20 June - 24 June; Use of Ionospheric GNSS Satellite Derived Total Electron Content Data for Navigation Ionospheric and Space Weather Research, Trieste. Directors: S.M. Radicella, P. Doherty, B. Nava.

2017, 22 May – 2 June; Extended Workshop on Space Weather Effects on GNSS Operations, Trieste, Directors: S.M. Radicella, P. Doherty, B. Nava.

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Incoherent Scatter Radar Schools





All of these workshops were held on-line this year

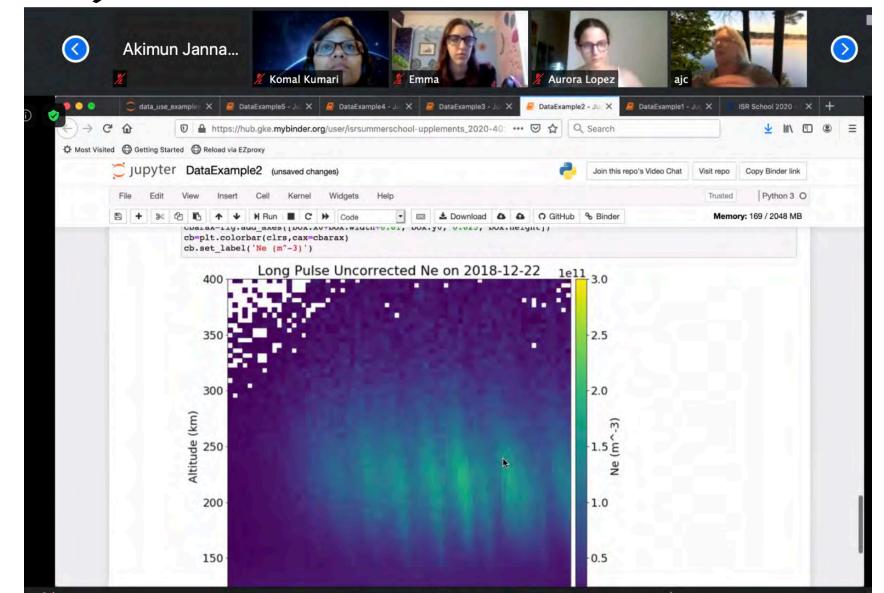


On-Line Open Radar Course



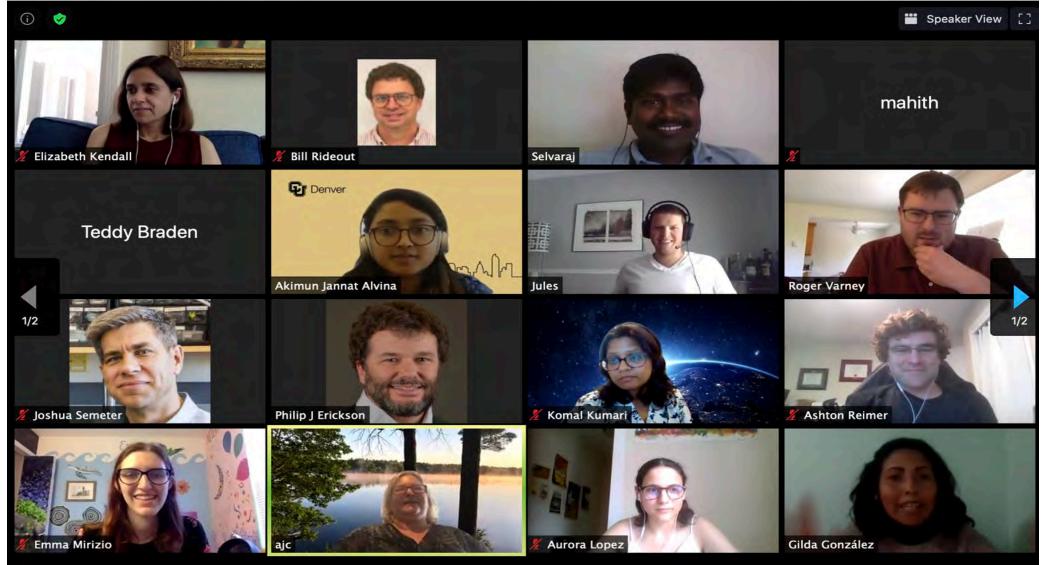


ISR Workshop augmented by Jupyter Notebooks (John Swoboda)





ISR Workshop





2020 REU projects

- The Polar Vortex's Effects on TIDs Izzi Ariail, University of Oklahoma \
- LEGO: Using Dark Clouds in the Milky Way to Understand Distant Galaxies Amanda Broadmeadow, University of Rochester
- Seismo-geodetic Data Processing for Cryospheric Applications in the Arctic and the Antarctic Emma Chickles, Wellesley College
- Small Radio Telescope 2020
 Blaine Huey, Rensselaer Polytechnic Institute
- MOXIE

 Gavin Kohn, University of Maryland (
- AERO-VISTA Interactive Spectrogram Display Andrew Langford, University of Notre Dame
- AERO-VISTA Satellite Dashboard

 Emily Mattle, Morehead State University A Multifrequency Collimation Profile Analysis of the 3C279 Je

 Christopher Nadeau, University of Rhode Island
- Observing Black Holes with the Event Horizon Telescope Catherine Petretti, Villanova University
- Software Support for GNSS Total Electron Content (TEC)

 Brenna Royersmith, University of Colorado—Boulder



NEROC can fill a critical gap in hands-on training of astronomers (Jens Kauffmann)

NEROC members build cutting—edge radio research instrumentation (e.g., Haystack, SAO, UMass), they operate world—class interferometers (e.g., SMA), VLBI experiments (e.g., EHT and VGOS), single—dish telescopes (i.e., LMT), and radio experiments (e.g., EDGES). It might be interesting to build a "graduate school for radio astronomy" (e.g., in form of a summer camp) with numerous opportunities for hands—on training with telescopes, instrumentation, and techniques (single—dish, interferometer, VLBI) at the various NEROC institutions.

