

ZP10 Weekly Notes  
November 4, 2014

**ZP11 SCIENTIST APPEARANCE ON THE WEATHER CHANNEL PROGRAM** (email: [timothy.j.lang@nasa.gov](mailto:timothy.j.lang@nasa.gov) / 256-961-7861): Timothy Lang (ZP11) appeared in a segment on the "Strange Skies" episode of the science documentary television program "Secrets of the Earth." The program airs regularly on The Weather Channel. The episode was about optical phenomena that occur in the Earth's skies, such as sun dogs, rainbows, superior mirages, green flashes at sunset, and more. The specific segment featuring Dr. Lang occurred near the beginning of the episode and was about sprites, blue jets, and other lightning-related glows above thunderstorms. His interview was shot last July at the NSSTC. The episode premiered on Monday, 11/3/14, at 8 pm Central. According to current local listings, it will be re-run at 4 pm on Saturday (11/8), at 9 pm on Monday (11/10), and at 5 pm the following Saturday (11/15).

**JOURNAL ARTICLE ACCEPTED FOR PUBLICATION** (email to [andrew.molthan@nasa.gov](mailto:andrew.molthan@nasa.gov) / 256-961-7474): Dr. Andrew Molthan (ZP11) is the lead author of an article entitled "Clouds in the Cloud: Weather Forecasts and Applications within Cloud Computing Environments", recently accepted for publication in the Bulletin of the American Meteorological Society. Mr. Jonathan Case (ENSCO, Inc. / ZP11), Mr. Bradley Zavodsky (ZP11), and Dr. Ashutosh Limaye (ZP11) participated as coauthors. The article provides a summary overview of cloud computing terminology relevant to atmospheric science and numerical weather prediction, and reports on outcomes of a long-standing collaboration between scientists at MSFC and NASA's Ames Research Center. In the study, the team evaluated private and public cloud computing architecture for implementing high-resolution, regional weather predictions to benefit developing countries and disaster support, as possible future applications to "capacity building" efforts supporting the SERVIR project's interests in Mesoamerica. In addition to the article's applied research focus, it also highlights some ways that the team supported NASA's interest in exploring cloud computing capabilities to support similar projects.