

ZP11 Weekly Notes

9/23/15

PRESENTATIONS AT THE NASA ORACLES SCIENCE TEAM MEETING (email to: timothy.j.lang@nasa.gov / 256-961-7861): Dr. Timothy Lang (ZP11) presented a talk and a poster at the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) Science Team Meeting, which occurred during 9-11 September 2015 at NASA Ames Research Center in Mountain View, California. The presentations described NASA Marshall's Advanced Microwave Precipitation Radiometer (AMPR) airborne instrument and its planned role in ORACLES. ORACLES is a NASA Earth Venture Suborbital field campaign that will examine the role of biomass burning aerosols in modifying the microphysical and radiative characteristics of marine stratocumulus clouds over the southeast Atlantic Ocean. If funded, AMPR would be housed on the NASA P-3 and would deploy during August-September of 2016, and its data would be used to constrain liquid water content estimates within the clouds. AMPR's participation would be funded by the NASA Aerosol-Cloud-Ecosystems (ACE) mission, which is a Decadal Survey satellite mission that currently in development.

PRESENTATIONS, SHORT COURSE, AND SESSION CHAIR AT AMS CONFERENCE ON RADAR METEOROLOGY (email to: timothy.j.lang@nasa.gov / 256-961-7861): Dr. Timothy Lang (ZP11) played an active role in the American Meteorological Society's 37th Conference on Radar Meteorology, which was held 13-18 September in Norman, Oklahoma. Prior to the full conference, he helped teach a short course on open-source radar software. During this course he demonstrated a number of radar software projects developed at NASA Marshall. Later in the week, he chaired an oral session on radar observations of mesoscale and severe weather. Then he presented a poster titled "Statistical evaluation of three distinct automated Doppler dealiasing algorithms using a hand-dealiased shipborne radar dataset" followed by a talk titled "Marshall Space Flight Center and the open-source radar software revolution".