

PARTICIPATION IN THE FIRST CYCLONE GLOBAL NAVIGATION SATELLITE SYSTEM (CYGNSS) APPLICATIONS WORKSHOP (email:

timothy.j.lang@nasa.gov/256-961-7861): Timothy Lang (ZP11) lead a breakout session on modeling, forecasting, and tropical convection at the first CYGNSS (<http://www.nasa.gov/cygnss>) Applications Workshop, which took place 27-29 May in Silver Spring, MD. Andrew Molthan (ZP11), who was a member of the workshop's organizing committee, and Michael Goodman (ZP10) also participated in the session. The session was aimed at identifying and describing potential meteorological applications for the CYGNSS mission, both within and beyond its primary mission of improved measurements of wind speeds within the inner cores of tropical cyclones. These ideas include using data assimilation of CYGNSS winds to improve tropical cyclone intensity forecasting, using information provided by CYGNSS on the diurnal cycle of winds to improve sub-seasonal to seasonal forecasting of tropical modes such as the Madden-Julian Oscillation (MJO), using longer-term CYGNSS products to assist the wind energy production industry, and many others. All of the applications take advantage of the unique measurements provided by the planned CYGNSS constellation of eight micro-satellites, which will provide rapidly updating, unbiased estimates of high wind speeds even in the presence of heavy rainfall. Additional breakout sessions at the workshop successfully identified several oceanographic and land-based applications of CYGNSS observations.

PARTICIPATION IN TEMPO SCIENCE TEAM MEETING

(email/call: brad.zavodsky@nasa.gov/256-961-7914): Mr. Bradley Zavodsky (ZP11) participated in the Tropospheric Emissions: Monitoring of Pollution (TEMPO) Science Team Meeting in Huntsville, AL on May 27-28. TEMPO is a NASA Earth Science Decadal Survey satellite mission that will provide unprecedented spatial and temporal resolution observations of ozone, nitrogen dioxide, aerosols, and other pollutants. The objective of the meeting was to describe work being performed to generate algorithms and coordinate calibration/validation activities. In addition, there were discussions about the need to engage community end users and define application area for transitioning TEMPO data to decision makers. Mr. Zavodsky discussed the successful research to operations paradigm used by the Short-term Prediction Research and Transition (SPoRT) project as a model for how TEMPO can engage the operational community.

PARTICIPATION AT JOINT METEOSAT THIRD GENERATION (MTG) LIGHTNING IMAGER (LI) & GEOSTATIONARY LIGHTNING MAPPER (GOES-R

GLM) WORKSHOP (email to: william.koshak@nasa.gov/256-961-7963): Bill Koshak (ZP11) gave a presentation at the MTG LI and GOES-R GLM Workshop held 27-29 May 2015 in Rome, Italy. The workshop provided a very good forum for the interchange of ideas regarding calibration/validation strategies for these future geostationary lightning sensor missions, and how best to utilize and optimize data products. Presentations from our European counterparts on the status of several European ground-based lightning detection networks for validation were of particular interest.