

## Weekly Report

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SCSB/CISESS  
Cooperative Research Program Division (CoRP)  
STAR/NESDIS  
National Oceanic and Atmospheric Administration (NOAA)

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### **Products and Applications**

**EPS-SG Imagery TIM:** On August 20, R. Ferraro and V. Petkovic (CISESS) participated at a meeting organized by T. King (SMCD) to determine the NWS needs for imagery from the upcoming EPS-SG mission. Our interest is from the Microwave Imager (MWI) on EPS-SG, which would serve as another data source of MW imagery for AWIPS; currently, MW imagery from other MW sensors are used for tropical cyclone monitoring, in particular, identifying the center of storms in rapidly developing storms that are typically obscured by cirrus clouds and unidentifiable from visible and IR imagery. NWS representatives B. Goeckel and J. Zajic expressed a desire for this data to be made available for continued use by the national centers, in particular, Ocean Prediction and National Hurricane Centers.

*(POC: R. Ferraro, V. Petkovic, Ralph.R.Ferraro@noaa.gov, Funding: PDRA, OPPA/EPS-SG)*

### **Workshops, Conferences, and Meetings**

**NESDIS 5-G Tiger Team:** On August 20, R. Ferraro participated at a meeting organized by D. Spencer (OSAPP) to seek STAR help in helping determine the impacts of the 5G network on passive microwave observations. Other STAR participants included C. Cao, M. Liu and K. Garrett (SMCD). Others from OSAPP and JPSS (S. Kalluri) also participated. This was considerable discussion about the overall impacts of the 5G at frequencies up to 100 GHz, although the initial concerns is around 23 GHz (water vapor band). The STAR team explained that the impacts come across three primary NWS domains – nowcasting/situational awareness, NWP data assimilation and long time series of satellite measurements (Climate Data Records, NWP reanalysis) – and each of these can tolerate more or less noise, or rejection of suspected 5G contaminated from the ATMS sensor. OSAPP would like a STAR focal point for near term activities that are due at the end of FY21; Harry will have to make such a decision, but it would appear that it should be someone from the Sensors Products Branch.

*(POC: R. Ferraro, Ralph.R.Ferraro@noaa.gov, Funding: PDRA)*