**Ship-Based Field Campaigns Supporting JPSS SNPP CrIS/ATMS Sounder Validation**

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**AEROSE**

- NOAA Aerosols and Ocean Science Expeditions (AEROSE)
  - Collaboration of ship-based oceanic field campaigns (e.g., CalWater/ACAPEX)
  - Oceans cover ~70% of Earth surface area and it is the satellite data users.
  - Support skin SST EDR validation
  - Ship-based measurements for infrared sensor validation during Aerosol and Ocean Science Expeditions (AEROSE).
  - The officers and crew of the NOAA Ronald H. Brown.

**Summary**

AEROSE has compiled a multiyear set of ship-based, marine in situ cross-sectional truth observations over the tropical Atlantic Ocean.

- The cruise datasets span a region of westerly oceanic influence
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- AERSE/CalWater can be considered a unique and important validation database.
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- Ocean-based truth data carries unique value for cal/val given that the ocean surface is far easier to characterize radiatively.

**Future Work**

- SNPP NUCAPS Long Term Monitoring (LTM)
  - Global AVTP, AVMP performance analysis
  - Physical validation (e.g., ocean, atmospheric, land, etc.)
  - Ocean-based truth validation

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- Funding and technical support for the AEROSE/CalWater campaign were provided by Oceans, Global Change, and the Earth System Science (GC3) Program.
- The AEROSE/CalWater domain is an important regions for users.

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