

# In Situ Optics and Biogeochemistry in Support of EXPORTS Science

## SCIENCE GOALS

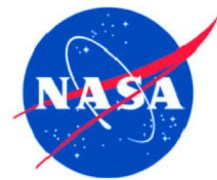
- Contribute in situ radiometric, absorption and scattering measurements and pigment sample analysis in support of EXPORTS.
- Examine horizontal and temporal variability of optical properties and derived constituents.
- Link in situ observations of PIC (calcifiers) to satellite remote sensing.
- Field measurement protocols and uncertainty budgets.

## TEAM MEMBERS

- Antonio Mannino, Lead Field Support Group (NASA GSFC)
- Scott Freeman, In Situ Optics (NASA GSFC)
- Crystal Thomas, HPLC pigment manager (NASA GSFC)

## OTHER TEAM MEMBERS:

- Chris Kenemer
- Michael Novak
- Joaquin Chaves
- Aimee Neeley



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## LOGISTICS

### Survey Ship:

- Underway hyperspectral above-water radiometry
- Profiling radiometer
- Profiling optical package

## MEASURED PARAMETERS

- Apparent Optical Properties
- Inherent Optical Properties
- Particulate Inorganic Carbon
- Pigment sample analysis

