

Oceanography Division

Lead Co-Pi's

Robert Arnone: Ocean Color; Igor Shulman: Modeling and Data Assimilation William Teague: Field Measurements; ZhongPing Lee: Optical Modeling









Recent Advances in Remote Sensing: Role of Inherent Optical Properties in Bio-Optical Processes























Scientific Issues

- Bio-optical Modeling
 - Relationship between Model Biological Output and IOP
 - Efficient and accurate models to simulate light propagation when water column is non-homogeneous
- Joint Assimilation of Physical and Bio-optical Data
 - Initialization of Ecosystem Model
 - Choice of model variables and parameters for direct inference
 - Balanced adjustment of model variables which are not inferred
 - Modeling and estimation of error covariances for models and observations
- Remote Sensing: Continued refinement of APS
 - Algorithms to detect major phytoplankton size groups
 - Separating CDOM and detritus















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