PACE IOP METHODOLOGY SUBGROUP

Members:

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General objectives for 2015:

- (1) Identify the areas of collaboration and develop and implement a plan for collaborative efforts to enhance the outcome of individual projects.
- (2) Identify gaps in IOP methodology and define a strategic plan for addressing the gaps.
- (3) Conduct research to address a number of specific objectives as listed below.

Specific research objectives:

- (1) Estimate total in situ IOP observation uncertainty due to the combined effects of instrument and sample error as a function of environment.
- (2) Develop improved methodology for measuring the particulate absorption coefficient including phytoplankton and nonalgal components.
- (3) Determine uncertainty budgets for obtaining particulate and phytoplankton absorption spectra with different methods, instruments, and models.
- (4) Determine uncertainties in pure water scattering associated with different values of the depolarization ratio.
- (5) Parameterize natural variability in VSF shape and characterize the sources of variability in VSF.
- (6) Assess convolved IOP-radiometry uncertainties through closure analyses with high quality, comprehensive field measurements.