Final report for:

DOE award number: DE-FG02-93ER61544
Period of award: 1993-1998
Total award: 816,705.00
Dr. C. Goyet, PI.

Program accomplishments:

The objective of this project was to measure and characterize the carbon properties in the ocean, and to quantify fluxes across the ocean-atmosphere interface.

All the "CO₂" data (TCO₂, TA, and pCO₂) we measured during this project have been submitted to CDIAC within the required two-year time period. In addition to the measurements made at sea, I participated in numerous intercomparison exercises (for TCO₂, TA, and pCO₂ measurements), and I contributed to the edition the DOE handbook of methods of the analysis of the various parameter of the carbon dioxide system in sea water (DOE, 1994). Our work not only provided improvement of the analytical techniques of TCO₂ and pCO₂ measurements but also provided new approaches for data analysis. In particular we investigated a novel approach for the quantification of anthropogenic CO₂ in seawater (Goyet et al., 1999). The results of our work funded by this grant are described in numerous peer-reviewed papers and data reports.

Publications resulting from this award:

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