

International Geosphere-Biosphere Program (IGBP)

- **Land-Ocean Interactions in the Coastal Zone (LOICZ)**
- **Surface Ocean-Lower Atmosphere Study (SOLAS; R. Weller)**
- **Integrated Marine Biogeochemistry and Ecosystem Research (IMBER) outgrowth of JGOFS and GLOBEC (Paris, Jan. 2003; Tony Knap)**

**These programs provide critical links to science needs
and research-based observations**

**They are interdisciplinary and involve good connections to the
OOPC concerning Carbon & other interdisciplinary variables**

**OOPC interests matched in forcing and feedbacks for
biogeochemistry, ecosystems, and climate variability**

Surface Ocean-Lower Atmosphere Study (SOLAS)

Air-sea interaction

CO₂, DMS, ozone & other radiatively active gases & their effects

Penetrative component of solar radiation and its modulation

pH as it is decreasing : effects on coral algae etc.

Integrated Marine Biogeochemistry & Ecosystem Research (IMBER)

Global change, natural and anthropogenic forcings and impacts on biogeochemical cycles and ecosystem dynamics

How impacts alter relations between elemental cycling and ecosystem dynamics

Feedback mechanisms of Earth system from these changes

Possible Action Items

- **Short technical paper outlining key climate relevant biogeochemical processes and observational programs in progress and planned (e.g., Hood, Dickey, new OOPC Tech. Officer et al.) – This would address climate relevant biogeochemical processes as requested in TORs**
- **OOPC website could be used to develop information databases for existing ocean climate observational systems (i.e., moorings, floats, VOS, etc.). The site would provide up-to-date info. on what measurements (incl. interdisc.) are being taken and where. Site could be divided into operational versus research-based. Links to other programs could be provided (i.e., Carbon, SOLAS, IMBER, CLIVAR, etc.)**

Thanx to Maria!