

# **THE INTERNATIONAL OCEAN CARBON COORDINATION PROJECT (IOCCP)**

*A joint project of SCOR and IOC and an affiliate program of the Global Carbon Project.*

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## NEWSLETTER No. 10, November 2005

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### **Ocean Carbon Open House Presentations On-Line**

The IOCCP hosted an "Ocean Carbon Open House" at the International CO<sub>2</sub> Conference on Wednesday evening, September 28. The purpose of the Open House was to bring together ocean carbon scientists to share information about major ocean carbon research programs and to discuss potential collaborations and coordination activities. The format of the Open House included a 5 minute overview of each program with a very brief question and answer period, followed by a 40-45 minute open discussion. About 70 people attended the session. The presentations made at the Open House are now available on-line and include:

- SOLAS/IMBER Carbon Implementation Group - Truls Johannessen (ppt 8.5MB)
- E.U. CarboOcean Project - Christoph Heinze (ppt 555KB)
- PICES Carbon Section - Andrew Dickson (ppt 55KB)
- NACP / OCCC Coastal Carbon Program - Nick Bates (ppt 4.0MB)
- Japanese Carbon Programs / PACIFICARBON - Toshi Saino (ppt 4.5MB)
- U.S. Ocean Carbon and Climate Change Program - Scott Doney (ppt 6.5MB)
- Australian Carbon Programs- Bronte Tilbrook (ppt 4.5MB)
- CASIX (U.K.) - Dorothee Bakker (ppt 8.6MB)
- U.S. Repeat Hydrography Program - Dick Feely (ppt 2.2MB)
- IOCCP Overview (view as slideshow)- Maria Hood (ppt 1.8MB)

The Open House highlighted the enormous amount of ocean carbon activities currently being carried out by national and regional groups and coordinated through several global framework programs. Participants in the Open House were also particularly interested in knowing about plans for coastal carbon observations, stimulated by the presentation of the NACP / OCCC coastal carbon program. The discussions also highlighted the interest and need for standardization of methods and data management in order to ensure that the results of these programs are comparable.

For more information, visit the IOCCP powerpoint library.

### **IOCCP holds its first Scientific Steering Group meeting**

Beginning in July of this year, the governing bodies of SCOR and IOC approved new terms of reference for the IOCCP, making it a standing project, and endorsing the establishment of a Scientific Steering Group to guide the activities of the IOCCP. On October 1st, the SSG met for the first time to discuss on-going activities of the IOCCP and to discuss priorities for the coming year. Member of the SSG include:

Chris Sabine (Chair)  
Masao Fukasawa (Hydrography)  
Bronte Tilbrook (Surface pCO<sub>2</sub>)  
Nick Bates (Time Series)  
Helmuth Thomas (Coastal Observations)  
Cindy Lee (Process Studies)  
Dorothee Bakker (Dataset Development)  
Cyril Moulin (Ocean Colour and Carbon Cycle Modeling)  
Truls Johannessen (SOLAS)  
Arne Koertzinger (IMBER)

As mentioned at the IOCCP Open House, the IOCCP has no membership and all activities are open to the community for participation. The SSG report is now available on-line. We invite everyone to review the action items and to participate in the development and implementation of activities of interest to you.

For more information, visit the IOCCP Workshops and Meetings pages.

### **International Repeat Hydrography Meeting Nov 14-16: an update**

JAMSTEC, the IOCCP, and CLIVAR co-hosted an International Repeat Hydrography Workshop at the Shonan Village Conference Center in Kamakura, Japan, November 14-16. The workshop brought together 49 participants from 11 countries, with expertise including ocean carbon and biogeochemistry, physical hydrography, modeling and data assimilation, and the Argo program. The workshop reviewed the science framework and implementation status of post-WOCE hydrography, provided guidance for a more coordinated system of data and information management, and established plans to begin data synthesis activities. A web-site has been developed for the workshop, and provides further details about workshop objectives and goals, the agenda, and the participant list. The workshop report is in preparation and will be made available as soon as possible.

Further Reading: visit the Symposium Web-site for further background information, the agenda and participant list..

### **GLODAP Results and Data Published**

During the 1990s, ocean sampling expeditions were carried out as part of WOCE, JGOFS, and the Ocean Atmosphere Carbon Exchange Study (OACES). Most of the cruises included various inorganic carbon species among the suite of routinely measured parameters. Both during and after the field work, a group of U.S. scientists collaborated to synthesize the data into easily usable and readily available products. This collaboration is known as the Global Ocean Data Analysis Project (GLODAP)." (GLODAP 2005). The publication (manual and CD) includes information about the project, database construction, data evaluation, derived values, gridded products, lessons learned, and

on-going research. Also included are reprints of relevant publications using the GLODAP data products.

The authors\* have decided to publish the current GLODAP dataset to ensure that it is properly documented in the literature. However, GLODAP will continue to improve and expand the dataset for the foreseeable future, continuing with data assembly in collaboration with other programs (e.g., the CARINA data) and including other parameters (Helium / tritium data). They will also make a special effort to include regions with sparse data coverage, including the Arctic and marginal seas.

\* Chris Sabine, Bob Key, Alex Kozyr, Dick Feely, Rik Wanninkhof, Frank Millero, Tsung-Hung Peng, John Bullister, and Kitack Lee.

Further Reading: visit the CDIAC Ocean CO<sub>2</sub> GLODAP web-site. To obtain the data and documentation, visit the GLODAP web-site (above), or contact CDIAC at [cdiac@ornl.gov](mailto:cdiac@ornl.gov); <http://cdiac.ornl.gov>.