



TOS PACIFIC BASIN MEETING

The Oceanography Society (TOS) announces its 1994 Pacific Basin Meeting to be held in Honolulu, Hawaii, July 19–22, 1994. The purpose of this meeting is to provide an international science and policy forum for major international Global Change programs occurring in the Pacific Basin. The programs to be highlighted at this meeting are as follows: JGOFS, WOCE, TOGA/TOGA COARE and RIDGE/ODP. Major talks will link the inherently interdisciplinary science and policy benefits of the programs.

The meeting format will feature morning plenary sessions with two invited speakers. The first day will also include brief overviews of each of the highlighted programs. The plenary session will be followed each day by concurrent sessions addressing each program's daily theme and subthemes and will feature 10–15 minute invited talks with time for questions and answers.

After lunch each day there will be an hour-long policy plenary session with two invited talks. The remainder of each afternoon will be devoted to the contributed posters focussing on (but not limited to) the day's theme. Commercial and educational exhibits will be co-located with the posters.

Daily continental breakfasts, coffee breaks and evening receptions will be included in the registration fee.

The daily themes and subthemes, as submitted by the highlighted programs, appear below. The order of presentation, i.e., which program will be featured on which day, will be day 1, JGOFS; day 2, RIDGE/ODP; day 3, WOCE; and day 4, TOGA/TOGA COARE.

ABSTRACTS

Poster abstracts for both science and policy themes will be accepted for review February 1–May 6, 1994. Abstract titles need **not** be specific to one of the session

themes or subthemes as outlined above.

Abstracts relating to the theme of a given day will be presented on that day. Abstracts not specific to any of the themes will be presented on the day assigned them by the Abstract Manager. Every attempt will be made to assign posters for presentation on the day preferred by the author(s), but TOS must reserve the right to make the final assignments in order to balance the number of posters over the course of the meeting.

All submitted abstracts will be forwarded to the Abstract Chairman who, with his committee, will determine which posters are accepted for presentation at the meeting. Notice of acceptance will be issued not later than June 1, 1994. To facilitate making travel arrangements, every effort will be made to issue early notifications of poster acceptance to those who submit abstracts in advance of the deadline.

Abstracts must be submitted to TOS via U.S. mail or other deliver service in camera-ready form as follows: All copy, including title, author(s), affiliation(s) and the abstract itself must fit inside an imaginary box that is 6.5 in. (horizontal) × 4.5 in. (vertical). Heading should contain title first, then author(s), affiliation(s), and address(es). On a separate sheet of paper, please indicate name, address and phone number of person to receive notification of acceptance as well as the program to which the abstract relates; use XX if abstract is not applicable to a specific program. If paying fee with a credit card, please also include card account number and expiration date on this sheet.

Abstracts submitted in an incorrect format will be returned. Should you have questions on formatting, contact TOS headquarters (804)496-8958, Omnet: Oceanography Society or at the address below.

The abstract fee is \$70 (\$30 for stu-

dents) and covers the cost of processing and publication in the abstract volume that is distributed during and after the meeting. Payment must be made at the time the abstract is submitted and can be made with check or money order payable to The Oceanography Society (in U.S. funds drawn on a U.S. bank) or credit card (Mastercard or Visa only). If paying with a credit card, please be sure to include your account number and expiration date.

We regret we cannot issue invoices for payment nor process training or purchase orders. Fees for abstracts that are not accepted will be refunded. Revisions to abstracts are discouraged; revised abstracts will be treated as new submissions and charged an additional \$70 (\$30).

TOS will provide a 4 ft. × 8 ft. standing frame with an inside area 46 in. h × 91 in. w on which posters will be horizontally mounted. If your poster requires electricity (approximately \$50/outlet) and/or additional furnishings (such as a table), there will be an additional charge. Additional special requirements must be indicated when your abstract is submitted. You will be billed for those additional needs and payment must be received in advance of the meeting to ensure availability. On-site orders for additional services and/or furnishings (if available) will be at a substantially higher price and charges for them must be paid in full upon delivery.

If you will be bringing equipment such as computers for your poster presentation, unless you can hand-carry it into the poster area, you must make arrangements for drayage with the TOS official service contractor.

Because we are using camera-ready copy, FAX and electronic mail submissions cannot be accepted. Submit abstracts, payment/credit card information (Mastercard/Visa account number and expiration date) and a list of your special requirements, if any, to:

REGISTRATION

All participants, including poster presenters, must register for the meeting. Registration information and forms will be available at the end of January, 1994. If you are planning to attend but have

not received registration materials by January 30, 1994, please contact TOS headquarters or our official registration contractor: E. H. Pechan & Associates, 5537 Hempstead Way, Springfield, VA 22151; (703)642-1120, ext. 158.

SCIENTIFIC THEMES AND SUBTHEMES

Meeting Program Chairman: Eric O. Hartwig, Naval Research Lab

JGOFS

Session Chairs: Margaret Leinen, University of Rhode Island; James W. Murray, University of Washington.

Controls on Biological Production in the Equatorial Pacific

- Constraining biological productivity
- Factors limiting production

The Roles of Physics and Biology in Controlling Variability in Production

- Insights from time series measurements
- Insights from synoptic measurements

Coupling between the Surface and Deep Ocean

- Coupling mechanisms
- Consequences of coupling

The Balance Sheet for the Equatorial Pacific

- Top-to-bottom carbon flux budgets
- Models to test the balance

RIDGE/ODP

Session Chairs: Richard E. Thomson, Institute of Ocean Sciences; James P. Cowen, University of Hawaii.

Mantle Melt and Crustal Accretion Processes

- Observations and modeling of mechanisms affecting the formation and evolution of global ridge systems
- Impact of mantle/crust processes on ocean basin characteristics

Energy and Material Fluxes at the Crustal-Ocean Boundary

- Hydrological processes associated with the hydrothermal system
- The biology, chemistry, and physics of hydrothermal circulation regimes within and across the seafloor

Global and Regional Effects of Ridge Processes on the Overlying Ocean

- Impact of hydrothermal venting on deep ocean circulation
- Biological energy flow and dispersion mechanisms
- Hydrothermal geochemical processes: transformations, dispersal, and metaliferous sediments

Evolution of Mid-Ocean Ridge Systems

- Temporal and spatial variability of mid-ocean ridges
- Event detection and response: scientific, political and logistical implications of a quick response to subsea oceanic eruptions
- Technological advancements

WOCE

Session Chairs: Lynne D. Talley, Scripps Institution of Oceanography; John Church, CSIRO Marine Labs; John Toole, Woods Hole Oceanographic Institution

Observations of Pacific Circulation and Heat Transport

- Boundary current structure and transport
- Meridional overturning
- Ventilated circulation and time scales
- Abyssal circulation

Time Dependence of the Circulation and Water Masses

- Annual to decadal gyre-scale variability
- Interdecadal changes of water masses, heat storage and circulation
- Representativeness of one-time hydrographic measurements

Equatorial Circulation: Upper Ocean Processes

- Cross-equatorial exchange

- Intermediate and deep circulation in the tropics
- The state of wind stress estimates
- Heat and fresh water flux estimation and verification

Numerical Modeling of the Pacific

- Relation to observations and interpretation of observations
- Model sensitivity and verification

Steps towards a Sampling Strategy for GOOS.

TOGA/TOGA COARE

Session Chairs: Roger Lukas, University of Hawaii; Antonio J. Busalacchi, NASA Goddard Space Flight Center

Coupled Modeling for Prediction of Seasonal-to-Interannual Variability

- Predictability of the coupled tropical ocean-atmosphere
- Towards operational assessment and prediction

Large-scale Tropical Ocean Measurements

- TOGA in situ oceanic monitoring
- Remote sensing of the tropical ocean
- TOGA data management

The TOGA Coupled Ocean-Atmosphere Response Experiment

- Air-sea fluxes of heat, moisture and momentum
- Dynamic responses to wind events
- Mixing: interaction of thermodynamics and dynamics

Data assimilation and modeling

Tropical Waves and Upwelling

- Dynamics and thermodynamics of tropical instability waves
- Equatorial waves and currents
- Influences on biochemistry (TOGA and JGOFS joint session)

POLICY THEMES

Session Chair: James M. Broadus, Woods Hole Oceanographic Institution

Please Note: Poster abstracts are solicited for the following policy themes as well as the scientific themes above.

Day 1

- The Role of Basin-Scale Ocean Science in Global Change Policy
- Antecedents and Origins: Historical Perspective on Pan-Pacific Ocean Science Programs

Day 2

- International Perspectives on Global Change Ocean Science and Policy
- Assessing the Stakes: A View from Island Nations

Day 3

- Making the Science Useful for Policy

- Global Change, National Security, and Ocean Science Policy

Day 4

- Ocean Science as an Investment: Making it Count
- The Value of Improved Climate Forecasts

SYMPOSIUM INFORMATION

The South Atlantic: Present and Past Circulation

The Oceanography Society (TOS), the World Ocean Circulation Experiment (WOCE), and the Scientific Committee on Oceanic Research (SCOR) will sponsor a symposium entitled *The South Atlantic: Present and Past Circulation*, to be held August 15–19, 1994 in Bremen, Germany.

The goal of the symposium is to assess the state of knowledge regarding the circulation of the South Atlantic Ocean, present and past with emphasis on heat transport within the basin, and exchange at its boundaries; vertical mixing and upwelling at zones of divergence and convergence; and evidence for and causes of variability at all time-scales.

Invited speakers will present lectures on background, state of the art, and new discoveries during morning sessions from Monday through Thursday. The symposium language will be English. Presentation of group efforts are much encouraged.

New Results and progress reports will be presented in poster sessions on Monday, Tuesday, and Thursday.

Poster sessions are planned for the following topics:

Theme 1: The South Atlantic: the gateway of global thermohaline circulation

- Topic 1a: inter-ocean exchange
- 1b: trans-equatorial flow
- 1c: deep- and bottom-water throughflow

Theme 2: Circulation and water masses of the South Atlantic and their imprint on sediments

- Topic 2a: near-surface gyre circulation
- 2b: basin and inter-basin circulation
- 2c: intermediate water masses
- 2d: surface exchange and atmospheric circulation

Theme 3: Boundary currents and upwelling

- Topic 3a: near-surface boundary currents
- 3b: deep boundary currents

- 3c: variability of upwelling processes

Theme 4: The heat, fresh water, carbon, and nutrient budgets

- Topic 4a: heat budget and meridional heat flux
- 4b: carbon and nutrient budgets
- 4c: nutrient and fresh water supply by rivers

On three afternoons, public lectures will be presented during which investigations in the South Atlantic will be projected into a general framework of global questions of interest to society. Wednesday afternoon will be free and Friday is reserved for working group meetings.

Bremen can be reached by air via Frankfurt, Paris, Berlin and London. Also, it is well connected to the main European railway lines and the Autobahn highway system.

For a registration packet contact Judi Rhodes, 1124 Wivenhoe Way, Virginia Beach, VA 23454. Information on abstract submission is on page 144.

SPECIAL OFFER TO MEMBERS OF THE OCEANOGRAPHY SOCIETY

The Society has concluded an agreement with Pergamon Press to allow its members to purchase subscriptions of the following journals at special reduced rates.

Continental Shelf Research	US\$110.
Deep-Sea Research Parts A & B	US\$130.
Progress in Oceanography	US\$ 85.
Oceanographic Literature Review	US\$ 75.

The above rates apply for 1994. To take advantage of this offer please send payment with order

to: PA HENN at Pergamon Press, Inc., 660 White Plains Road, Tarrytown, NY, 10591-5153, USA (for members in the USA and Canada) or Pergamon Press Plc, Headington Hill Hall, Oxford, OX3 0BW, England, UK (for those in the rest of the world). Free sample copies of any of the above journals are available upon request from Pergamon.

ABSTRACT FORM & Poster Information

IMPRINT OF CLIMATIC ZONATION ON MARINE SEDIMENTS

A. Johnson, B. Miller, C. Fisher & D. Smith

Department of Geosciences, Bremen University, Bremen, Germany

This is how to prepare your abstract: use 12 point Times Roman font. Type title in capital bold letters throughout. Leave one line blank after title. Type name of author(s), first/middle name(s) bold and as initials only, give affiliation (not bold) in next line. Type this authors' block centered. Leave one line blank.

Abstract text flush left. Do not indent first lines of paragraphs but leave on blank line between paragraphs. Abstract may not exceed 15.5 cm in width and should be no longer than 38 1.5-spaced lines per page including title (box on this sheet indicates margins of abstracts). Maximum length is 1 page, 2 pages if figures (high-quality line drawings, no photographs) are presented.

The abstract will be published in "Berichte aus dem Fachbereich Geowissenschaften, Universität Bremen" in Din A 4 size.

We would appreciate it if you would send your abstract on 3.5" floppy (IBM compatible), preferably as a Microsoft Word document. Alternatively, you may send your abstract via Electronic Mail. Our e-mail address is: G. WEFER (OMNET), please refer to SUBJECT: South Atlantic Symp. Abstract. If you send a floppy or e-mail, still send us a hardcopy of your abstract

Deadline for abstracts: April 1, 1994!!!

Poster information:

Size: width: maximum 95 cm
length: maximum 125 cm

Mainly we use plastic coated boards, on which your posters can be **adhered/taped, not pinned**. Please do take this into account when you prepare your posters. The background of single sheets should be of hard cardboard, otherwise sheets will probably become damaged when they are taken down!

Nominations for the Walter Munk Award

In January 1994, the Walter Munk Award Selection Committee, made up of representatives designated by The Oceanography Society, the Chief of Naval Research, and the Oceanographer of the Navy, will begin reviewing nominations. If a worthy candidate is identified, the second Walter Munk Award for Distinguished Research in Oceanography Related to Sound and the Sea will be presented at the Oceanography Society's July 1994 meeting in Honolulu, Hawaii.

In Keeping with Professor Munk's contributions to ocean science, nominations for the award will be based upon:

- a. Significant original contributions to the understanding of physical ocean processes related to sound in the sea;
- b. Significant original contributions to the application of acoustic methods to that understanding; an/or
- c. Outstanding service that fosters research in ocean science and instrumentation contributing to the above.

Nominations for the award should be forwarded in writing to The Oceanography Society: 1124 Wivenhoe Way, Virginia Beach, VA 23454; Omnet/Oceanography.Society; Fax (804) 496-8960.