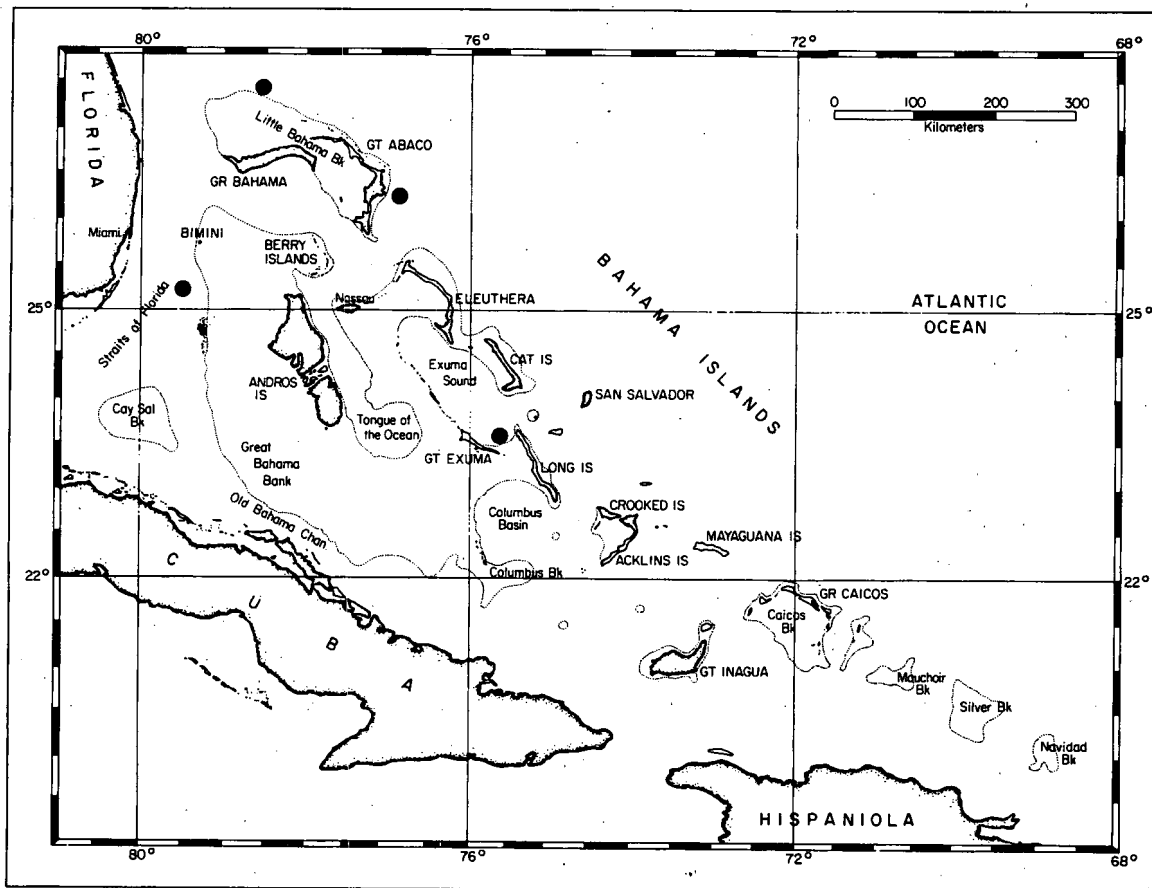




JOIDES Journal

VOL. X No. 3 October 1984



ODP Leg 101 (Bahamas) - Proposed Drilling Sites

TABLE OF CONTENTS

VOL. X, NO. 3, OCTOBER 1984

SEDCO/BP 471 SHIP SCHEDULE	1
OCEAN DRILLING PROGRAM (TAMU)	2
ODP SAMPLE DISTRIBUTION POLICY	5
JOINT OCEANOGRAPHIC INSTITUTIONS INC.	12
Report from JOI Inc.	12
IPOD Site Survey Data Bank	12
JOIDES PANEL & COMMITTEE MEETINGS	14
DEEP SEA DRILLING PROJECT	15
Information Handling Group	15
Core Repositories	16
PROPOSALS - OCEAN DRILLING PROGRAM	20
FOCUS	
Letter from the Planning Committee Chairman	22
JOIDES COMMITTEE AND PANEL REPORTS	23
Planning Committee, 21-23 May 1984	23
Executive Committee, 19-21 June 1984	31
GUIDELINES FOR THE SUBMISSION OF PROPOSALS TO JOIDES	37
DIRECTORY OF JOIDES COMMITTEES AND PANELS	40
ALPHABETICAL TELEPHONE DIRECTORY	56

ODP SHIP SCHEDULE

	Dates	Operating Days	Transit Days	Total Days	Port Days	Co-Chief Scientists
LEG 101 (Bahamas)	01 Jan - 15 Feb	41	5	46		J. Austin, UT W. Schlager, UM
PORTCALL (Ft. Lauderdale)	16 - 20 Feb				5	
LEG 102 (ENA 3 417, 418, 395)	21 Feb - 08 Apr	41	6 ^a	47		J. Schlee, USGS M. Salisbury, SIO
PORTCALL (Norfolk)	09 - 13 Apr				5	
LEG 103 (Galicia)	14 Apr - 09 Jun	42	15	57		G. Boillot, France
PORTCALL (Bremerhaven)	10 - 16 Jun				5	
LEG 104 (Norwegian Sea)	17 Jun - 03 Aug	42	6	68		
PORTCALL (Stavanger)	04 - 08 Aug				5	
LEG 105 (Labrador Sea)	09 Aug - 05 Oct	42	16 ^b	58		
PORTCALL (St. Johns)	06 - 10 Oct				5	
LEG 106 (Mid-Atlantic Ridge/KFZ)						
LEG 107 (Tyrrhenian Sea)						
LEG 108 (N.W. Africa/Cenozoic)						
LEG 109 (Barbados North)						
LEG 110 (MARK-2)						
LEG 111						
LEG 112						
LEG 113						
LEG 114 (Weddell Sea)						

^a Transit time depends on sites occupied.

^b Includes transit times to and from drillsites in Baffin Bay from Labrador Sea.

OCEAN DRILLING PROGRAM Texas A & M University

SEDCO/BP 471 Conversion

Invitations to bid for ship conversion were sent out on 6 July 1984. On 28 August 1984 SEDCO awarded a contract to Ham Industries for \$4,890,000 to convert the SEDCO/BP 471. Ham Industries does business as M & M Pipe and Pressure Vessel Fabricators located at Box 43, 4301 Industrial Road, Pascagoula, Mississippi 39567. The M & M company has been in business for the last 8 years and Ham Ind. for 2 years. All work will take place at M & M's Industrial Road shop facility, the Bayou Cassotte dock facility, and the Ingalls Shipyard dry dock where work will commence on October 15 with a target date for completion of December 1.

ODP Personnel

Dr. Robert Kidd has accepted the position of Science Manager for ODP. He is presently holding the position of Principal Scientific Officer for the Marine Geology and Geophysics Group at the Institute of Oceanographic Sciences in England.

Dr. Kidd received his BS in Geology from the University of London in 1966 and his PhD in Marine Geology from the University of Southampton in 1975. Between 1973 and 1975 he was Visiting Staff Scientist for the Deep Sea Drilling Project. He will arrive in College Station in mid-November.

Shipboard Computer

The drilling vessel will be equipped with a research-oriented computer system which is designed to perform as many of the routine clerical and arithmetical tasks as possible. Work stations will be distributed throughout the vessel which can perform such tasks as: satellite navigation, core inventory, sampling and descriptions, identification and/or data collection, physical properties, laboratory data collection and processing, monitoring of engineering development and operations experiments, wireline logging, word processing, drafting, etc. The onboard computer will be capable of accessing data bases in College Station and elsewhere via the ship's satellite communications system.

Visiting investigators are welcome to bring personal software which is compatible with the DEC VMS environment. Onboard

compilers include FORTRAN, Pascal, Basic, and Cobol. Call Mr. Jack Foster, Computer Services Group Leader (409-845-2673), for information on data formats and software compatibility.

Shipboard Library

A shipboard science library is being compiled which will contain several hundred books. Included will be basic references, a complete set of DSDP Initial Reports, maps, and key monographs representing various fields of geology and oceanography. There will be a separate paleontology library housed in the paleontology laboratory which will be cross-indexed with the main shipboard library.

Other library facilities will include ten study carrels, a map/chart table, Xerox machine, and a paperback collection containing leisure reading materials.

Science Laboratories

Below is a microcapsule description of each laboratory.

Contained in the 12,000 square feet of shipboard laboratories will be twelve labs, each containing state-of-the-art scientific research equipment with onboard specialists knowledgeable in their operation.

The Underway Geophysics Laboratory will contain a single-channel seismic system that will digitize the data, process it in real time, and display it on a 22-inch plotter.

Innovations for splitting, sampling, describing, and archiving cores will increase efficiency while eliminating distractive activity in the Sedimentology Laboratory.

The Physical Properties Laboratory, used for studying soft sediments and hard rocks, will contain a vertically scanning GRAPE (Gamma Ray Attenuation and Porosity Evaluator) with variable speeds. A computer will monitor, display, and log data.

In the Magnetics Laboratory a cryogenic magnetometer will be used for the first time in a seagoing lab. This superconducting rock magnetometer can make measurements 100 times more sensitive and faster than the more common spin magnetometers. Complimenting

this equipment will be a low-field alternating field demagnetizer and a susceptibility meter, which can also be used to look at discrete samples.

The Chemistry and Gas Labs will contain geochemical equipment used in the inorganic lab for analysis of interstitial pore water and in the organic lab for hydrocarbon monitoring of core material.

Petrology and Thin Section Laboratories will be set up to operate in the traditional methods as well as having the capacity for production quantity output in making thin sections. The lab will be supplied with Zeiss petrographic microscopes with reflected light, photographic, and video capabilities.

In the XRF/XRD Laboratory the equipment will include the Applied Research Laboratory's 8400 Hybrid Spectrometer, DEC Micro-11, Philips ADP 3520 for X-ray diffraction analyses, and the software to support all aspects of the X-ray programs.

The Paleontology Laboratory will be subdivided into a paleoprep lab and a microscope study room which will contain a paleontology reference library. An ISI scanning electron microscope will be located next to the paleo lab.

The Photography Laboratory will be divided into a wet/darkroom and dry/copy mounting area. Additional capabilities are film and print processing machines.

Initial Legs of the ODP

Leg 101 is destined for the Bahamas region, a carbonate platform-type continental margin. Areas of interest (in priority order) are: Straits of Florida where a penetration of approximately 1.3 km is planned. Scientific objective is a correlation of the stratigraphic section in the southern Gulf of Mexico. The goal at this site is to penetrate to a depth of 50 meters below a prominent regional seismic reflector which is thought to mark a major erosional event in this region. This reflector is referred to as the Mid-Cretaceous Unconformity (MCU). Estimated drilling time is 11 days assuming a single bit, and 15 or 16 days with re-entry.

Little Bahama Bank will also be investigated by several HPC holes approximately 200 to 300 meters deep. Scientific objective here is to learn about the evolution of slopes in calcareous dominated regions. Estimated drilling times for each site is 1.5 to 2 days.

At Exuma Sound one deep hole approximately 1.5 km, and 2 or 3 HPC sites of 200 to 300 meters are planned. The objective of the deep penetration site is to learn how the shallow banks adjacent to deep sound were formed.

Estimated drilling time is 15 days for a single-bit hole or 20-21 days for a re-entry site. The objective of the HPC sites is to learn about the evolution of slopes in calcareous dominated regions. The exact locations have not yet been determined but estimated drilling time is approximately 2 days at each site.

The Co-Chief Scientists for Leg 101 will be Drs. W. Schlager (Rosenstiel School of Marine and Atmospheric Science of the University of Miami) and J. Austin (Institute for Geophysics, University of Texas at Austin).

Leg 102 will try to accomplish two unrelated goals. The first will be to clean out, deepen, and log Hole 418A, an old DSDP re-entry ocean crust hole at the southern end of the Bermuda Rise. If this is successful, an extensive series of downhole experiments will be carried out. The second task will be to complete DSDP Site 603 (commonly referred to as "target site ENA-3") by establishing a new re-entry hole and penetrating the thick sedimentary section into basement rocks.

Leg 102 is currently scheduled to begin in Fort Lauderdale on 21 February 1985 and end in Norfolk, Virginia on 8 April 1985, totalling 47 days at sea.

Dr. Matthew Salisbury currently of Scripps Institute of Oceanography, and Dr. John Schlee of the U.S. Geological Survey at Woods Hole Oceanographic Institution will act as Co-Chief Scientists.

Randy Merrill
Public Information
Ocean Drilling Program
Texas A & M University

There's an unhealthy poet on board of this ship,
 e's sick, but I don't think 'e knows it.
 'E scribbles at night with all of 'is might,
 but when mornin' comes, then 'e stows it.

'E writes about flob-wocks, an' monsters, an' such,
 Bloody 'ell! Does 'e think we're all dommies?
 Now I know, an' you know, there ain't no such things,
 so this bloke, 'e must be a rummy.

Now 'oo in th' 'ell do you think 'e could be?
 (or could 'e be one of th' ladies?)
 D' ye think that 'is accent is phony, or not?
 Damn it all, may 'is soul rot in Hades!

We'll have t' get rid of this character fast,
 'is sickness might spread thru th' ranks.
 So if you've a clue, an yer sure it's not you,
 turn 'im in, an you'll earn all our thanks.

'E's surely a schizoid 'oo thinks 'e can write
 a poem like th' great Bard o' Barry,
 But 'e's out uv 'is bloomin' head dontcha know,
 an' we'd all uv us better be wary.

If we all watch each other, 'e's bound to be caught
 creepin' round in th' dead o' th' nite
 So keep an eye peeled an' don't sleep too sound,
 An jus' keep yer roommate in sight! Right!

(Contributed by LEG)

OCEAN DRILLING PROGRAM SAMPLE DISTRIBUTION POLICY

Distribution of Ocean Drilling Program and of Deep Sea Drilling Project samples is undertaken in order to (1) provide support to shipboard scientists in achieving the scientific objectives of their cruise, and to support shorebased investigators who are preparing contributions to ODP reports; (2) provide individual investigators with materials to conduct detailed studies beyond the scope of ODP reports; (3) provide paleontological reference centers with samples for reference and comparison purposes.

Funding for sample-related activities must be secured by the investigator independently of requesting the samples.

The Ocean Drilling Program Curator is responsible for distributing samples and for preserving and conserving core material. The Curator, who may accept advice from chairmen of the appropriate JOIDES advisory panels, is responsible for enforcing the provisions of this sample distribution policy. He is responsible for maintaining a record of all samples that have been distributed, both onboard ship and subsequently from the repositories, indicating the recipients and the nature of investigations proposed. This information is available to interested investigators on request.

Every sample distributed from the ship or from a repository is labeled with a standard identifier, which includes leg number, hole number, core and section numbers, and interval within the section from which the sample was removed. It is imperative that this standard identifier be associated with all data reported in the literature, and that residues of the sample remain labeled throughout their lives, so that later workers can relate the data to the cores.

Distribution of sample materials is made directly from the repositories (Lamont-Doherty Geological Observatory, Scripps Institution of Oceanography, or Texas A & M University) by the Curator or his designated representative.

1. Distribution of Samples for Research Leading to Contributions to ODP Reports.

Any investigator who wishes to contribute to the reports of a scheduled cruise may write to the Curator, Ocean Drilling Program, Texas

A & M University, College Station, TX 77843-3469, U.S.A, in order to request samples from that cruise. Requests for a specific cruise must be received by the Curator at least TWO MONTHS in advance of the departure of that cruise, in order to allow time for review of the request in conjunction with other requests, so that a suitable shipboard sampling program can be assembled. The request should include a statement of the nature of the proposed research, size and approximate number of samples required to complete the study, and any particular sampling technique or equipment which may be required. Requests will be reviewed by the staff representative and co-chief scientists of the cruise and by the Curator. Approval/disapproval will be based upon the scientific requirements of the cruise as determined by the appropriate JOIDES advisory panel(s). The scope of a request must be such that samples can be processed, that proposed research can be completed, and that the paper can be written in time for submission to the relevant ODP cruise report.

Except for rare, specific instances involving ephemeral properties, the total volume of samples removed during a cruise-related sampling program will not exceed one-quarter of the volume of core recovered, and no interval will be depleted. One-half of all recovered materials will be retained in the archives in as pristine a condition as is practicable. Investigators requesting shipboard samples of igneous materials may receive a maximum of 100 igneous samples per cruise.

Because many sample requests are received for shipboard work and because the time of the shipboard party is at a premium, co-chief scientists are strongly urged to limit shipboard sampling to the minimum necessary to accomplish the cruise objectives. Shorebased investigators whose requests for cruise-related samples are approved should expect that they will receive the samples after the cores are returned to the repository, and should schedule research activities accordingly.

Co-chief scientists may invite investigators who are not cruise participants to perform special studies of selected core samples in direct support of shipboard activities. If this occurs, the names and addresses of these investigators and details of all samples loaned or distributed to them must

be forwarded to the Curator, via the ODP Staff Representative to that cruise, immediately after the cruise. These investigators are expected to contribute to the cruise reports as though they had been cruise participants. All requirements of the Sample Distribution Policy apply.

Any publication of results other than in ODP reports within twelve (12) months of completion of the cruise must be approved and authored by the whole shipboard party, and, where appropriate, shorebased investigators. After twelve months, individual investigators may submit related papers for open publication provided they have already submitted their contributions to ODP reports. Investigations which are not completed in time for inclusion in ODP reports for a specific cruise may be published in a later edition of ODP reports; however, they may not appear in another journal until the ODP report for which they were intended has been published.

2. Distribution of Samples for Research Leading to Publication Outside of the ODP Reports.

A. Researchers who wish to use samples for studies beyond the scope of the ODP reports, should obtain sample request forms from the Curator, Ocean Drilling Program, Texas A & M University, College Station, TX 77843-3469, U.S.A. Requestors are required to specify the quantities and intervals of core required, to make a clear statement of the nature of the proposed research, to state the time which will be required to complete the work and to submit results for publication, and to specify funding status and the availability of equipment and space for the research.

Additionally, if the requestor has received samples from ODP or from DSDP previously, he/she will be required to account for the disposition of those samples by citing published works, six (6) copies of which must be sent to the Curator. If no report has been published, this requirement can be fulfilled by sending a brief (two or three page) report of the status of the research. Unused and residual samples should be returned either to the Curator at ODP or to one of the designated paleontological reference centers. If material is returned to a reference center, notify the Curator when it is sent.

Requests for samples from researchers in industrial laboratories will be honored in the same manner as those from academic organizations. Industrial investigators have the same obligations as other investigators to

publish all results promptly in the open literature and to provide the Curator with copies of all reports published and of all data acquired in their research.

In order to insure that all requests for highly desirable but limited samples can be considered together, approval of requests and distribution of samples will be delayed until twelve (12) months after completion of the cruise or two (2) months after official publication of the core descriptions, whichever occurs earlier. The only exceptions to this policy will be made for specific requests involving ephemeral properties. Requests for samples may be based on core descriptions published in ODP reports produced by the shipboard party, copies of which are on file at various institutions throughout the world. Copies of original core logs and data are kept on open file at ODP, and at the repositories at Lamont-Doherty Geological Observatory and at Scripps Institution of Oceanography.

B. Most investigations can be accomplished handily with samples volumes of 10 ml or less. Investigators must provide explicit justification of requests for larger sample sizes or for frequent intervals within a core. Requests which exceed reasonable size or frequency limits will require explicit justifications and more time to process, and are unlikely to be granted in their entirety.

Requests for samples from thin layers, from stratigraphically important boundaries, from sections which are badly depleted or in unusually high demand may be delayed in order to coordinate requests from several investigators or while the Curator seeks advice from the community. Investigators who submit such requests may expect to receive suggestions for alternative sampling programs or that they join a research consortium which will share the samples. In any event, such exceptional request will require more time for processing than will more routine requests.

Investigators who wish to study ephemeral properties may request a waiver of the waiting period; however, such requests will be referred automatically to the relevant co-chiefs. If approved, the investigator will join the shorebased contributors to the shipboard science effort, and will incur the obligations thereof (see section 1).

C. Samples will not be provided until the requestor assures the Curator that funding for the proposed research is available or unnecessary. If a sample request is dependent in any way upon proposed funding, the Curator is prepared to provide the proposed funding

organization with information on the availability (or potential availability) of suitable samples.

D. Investigators who receive samples incur the following obligations:

(1) To publish significant results promptly; however, no contribution may be submitted for publication prior to twelve (12) months following the termination of the relevant leg unless it is approved and authored by the entire shipboard party.

(2) To acknowledge in all publications that the samples were supplied through the assistance of the international Ocean Drilling Program and others, as appropriate.

(3) To submit six (6) copies of reprints of all published works to the Curator, Ocean Drilling Program, Texas A & M University, College Station, TX 77843-3469, U.S.A. These reprints will be distributed to the repositories, to the ship, to the National Science Foundation, and to the Curator's reprint file.

(4) To submit all final analytical data obtained from the samples to Data Base Manager, Ocean Drilling Program, Texas A & M University, College Station, TX 77843-3469, U.S.A. Please consult recent issues of the JOIDES journal or call (409-845-2673) for information on acceptable data formats. Investigators should be aware that they may have other data obligations under NSF's Ocean Science Data Policy or under relevant policies of other funding agencies which require submission of data to national data centers.

(5) To return all unused or residual samples in good condition and with a detailed explanation of any processing they may have experienced, upon termination of the proposed research. In particular, all thin sections and smear slides manufactured onboard the vessel or in the repositories are to be returned either to the Curator at ODP or to one of the designated paleontological reference centers.

Failure to honor these obligations will prejudice future applications for samples.

E. Cores are available for examination by interested parties at the repositories in order to inspect cores and to specify sample locations when that is required for their research; however, time and space in the workrooms are limited, so advance appointments are required. Occasionally, the space may be fully booked several weeks in advance, so investigators are urged to call for

appointments well ahead in order to avoid disappointment. Only the Curator or his delegate may actually remove samples from the cores.

F. A reference library of thin sections, smear slides and archive photographs is maintained in the repositories for the use of visiting investigators. All thin sections and smear slides produced onboard the ship or in the repositories belong to this library.

3. Distribution of samples to Paleontological Reference Centers.

As a separate and special category of repository activity, selected samples are being distributed to paleontological reference centers, where the prepared material may be studied by visitors. As of this writing (mid-1984), Foraminifera and Calcareous Nannofossils can be viewed; Radiolaria and Diatoms will be prepared in the future. The present centers are: Scripps Institution of Oceanography, California (W.R. Riedel, tel. 619-452-4386); Basel Natural History Museum, Switzerland (J.B. Saunders, tel. 061-25.82.82); and New Zealand Geological Survey, Lower Hutt, New Zealand (A.R. Edwards, tel 699.059). Future centers are likely to include Texas A & M University, College Station, Texas (S. Gartner, tel. 409-845-8479); Smithsonian Institution, Washington, D.C.; Lamont-Doherty Geological Observatory, Palisades, New York; and an as yet undesignated center in Japan.

Further details concerning the paleontological reference centers are reported periodically in the JOIDES journal.

4. Distribution of Samples for Educational Purposes.

Samples may be available in limited quantities to college-level educators for teaching purposes. Interested educators should request application forms from the Curator, Ocean Drilling Program, Texas A & M University, College Station, TX 77843-3469, U.S.A. Requestors are required to specify preferred sample size and location, to make a very clear statement of the nature of the coursework in which the samples will be used, to explain how the core samples will be prepared and how they will be used in the classroom, to explain in detail why they cannot use similar materials derived from outcrops or dredge hauls (it is NOT acceptable to argue that it requires less effort for the requestor to obtain samples from ODP than to

assemble them from other sources!), and to certify that funds are available to prepare the materials for classroom use. In general, only samples of materials which are abundant in the collection and which are in little demand for research purposes should be requested for educational purposes. The Curator will not approve requests for materials which are limited in supply or for which demand (real or potential) is great, including most paleontological materials.

5. Distribution of data.

The Deep Sea Drilling Project and the Ocean Drilling Program routinely capture much of the data generated onboard ship and published in Program reports. Additionally, data supplied by investigators who have received samples are incorporated into the data bases, so data sets which are larger than can be published are available to investigators. Magnetics, downhole logging, seismic reflection, bathymetric data, and other data

collected by the drilling vessel become available for distribution to investigators at the same time as core samples.

At least through mid-1986, DSDP data will continue to be distributed by the Data Base Manager, Deep Sea Drilling Project, A-031, University of California, San Diego, California 92093, U.S.A. A charge will be made to recover expenses in excess of \$50.00 incurred in filling individual requests. If required, estimates of charges can be furnished before the work is performed. As DSDP phases down, DSDP data will be available primarily from the National Geophysical Data Center, Boulder, Colorado.

Requests for ODP data should be addressed to the Data Base Manager, Ocean Drilling Program, Texas A & M University, College Station, TX 77843-3469, U.S.A. Many varieties of DSDP data will be included in ODP data bases. Information on sources of DSDP data will be available from the ODP Data Base Manager.

POSITION AVAILABLE

Supervisor of Geoscience Data Base

Ocean Drilling Program
Texas A & M University
College Station, Texas

Scientist will oversee four person group which assembles and monitors all of the electronic, film and paper data bases produced onboard the drilling vessel and in shore laboratories. Individual will be responsible for designing and constructing data bases, editing data, performing quality control checks, preparing documentation and synthesis publications, responding to user requests, and general support of Program research activities. Masters degree or equivalent experience in igneous petrology and experience in data base management required. Supervisory experience highly desirable. Send a letter of application, resume, names of four referees, and other relevant information to:

Employment Manager
Personnel Department
Texas A & M University
YMCA Building
College Station, TX 77843

EQUAL OPPORTUNITY EMPLOYER

OCEAN DRILLING PROGRAM SAMPLE REQUEST

Please be aware of the current Sample Distribution Policy which is published in the latest issues of Initial Reports of the Deep Sea Drilling Project and in reports of the Ocean Drilling Program.

1. Name(s), office address and telephone number of investigator(s):

2. Purpose(s) of request. Please summarize the nature of the proposed research concisely in 5-7 lines. [This summary will be included in various official reports]. Provide a detailed description of the proposed research, including techniques of sample preparation and analysis, roles of individual investigators, etc., on an attached sheet. The detailed description of the project will be employed in reviewing the sample request.

3. List the samples requested on an ODP Sample Request Inventory, specifying in detail the precise location of each sample within the core to the nearest cm, and the sizes of samples which are the smallest required to support the research. Sample locations should be specified on the basis of the published lithological charts and descriptions which appear in the *Initial Reports*.

4. Are sufficient funds, space and facilities now available to support the proposed research?

Source of Funds:

NSF: _____ Other (identify agency): _____

Space: _____ Facilities: _____

If funds, space or facilities now available are inadequate, how do you anticipate remedying the situation? If a sample request is dependent, wholly or partially, upon proposed funding from the National Science Foundation, the sample request and funding proposal must be considered together; therefore, it is important that the funding proposal be submitted at the same time as this request.

(over)

If NSF funding is to be employed in the proposed research, please enter the relevant NSF Grant No. _____ or NSF Proposal No. _____, and percent of funding in that grant which would be devoted to research on DSDP or ODP samples: _____ %.

- 5. Please estimate the time it will require for you to obtain publishable results:
- 6. In what condition will the samples be once your research is complete? Will they be useful to others? If so, for what kinds of research?
- 7. If you have ever before received samples from DSDP or from ODP, please attach a comprehensive list of the publications which resulted from each sample request. If you reference publications which have not yet been forwarded to the Curator, please enclose six (6) reprints of each. If work is still in progress, please attach a brief (2-3 page) progress report. If the work has ended, please return the residues.
- 8. Please summarize any other information which you feel would be useful in reviewing your request on an attached sheet.

Acceptance of samples implies willingness and responsibility on the part of the investigator to fulfill certain obligations:

- (a) To publish significant results promptly; however, no contribution may be submitted for publication prior to twelve (12) months following the termination of the relevant leg unless it is approved and authored by the entire shipboard party.
- (b) To acknowledge in all publications that the samples were supplied through the assistance of the international Ocean Drilling Program and others as appropriate.
- (c) To submit six (6) copies of reprints of all published works to the Curator, Ocean Drilling Program, Texas A&M University, College Station, Texas 77843-3469, U.S.A. These reprints will be distributed to the repositories, to the ship, to the National Science Foundation, and to the Curator's reprint file.
- (d) To submit all final analytical data obtained from the samples to Data Base Manager, Ocean Drilling Program, Texas A&M University, College Station, Texas 77843-3469, U.S.A. Please consult recent issues of the JOIDES journal or call 409-845-2673 for information on acceptable data formats. Investigators should be aware that they may have other data obligations under NSF's Ocean Science Data Policy or under relevant policies of other funding agencies which require submission of data to national data centers.
- (e) To return all unused or residual samples, in good condition and with a detailed explanation of any processing they may have experienced, upon termination of the proposed research. In particular, all thin sections and smear slides manufactured onboard the vessel or in the repositories are to be returned to the Curator. Paleontological materials may be returned either to the Curator at ODP or to one of the designated paleontological reference centers.

It is understood that failure to honor these obligations will prejudice future applications for samples.

Send completed forms to:

Curator
Ocean Drilling Program
P.O. Drawer GK
College Station, Texas 77841

Signatures of Investigators

Date: _____

JOINT OCEANOGRAPHIC INSTITUTIONS INC.

REPORT FROM JOI INC.

Ocean Drilling Program

The science operator, Texas A & M University, completed its review and approval of the conversion specifications prepared by Underseas Development, Inc. (UDI), the Subcontractor to Texas A & M for the drillship conversion and operation. After approval of the specifications, UDI sent out a Request for Proposal, which included detailed conversion plans, to ten shipyards who had expressed an interest in undertaking the conversion of the SECO/BP 471. These proposals were sent out on July 6, 1984. Responses were received on August 6, 1984 and, after rigorous examination of them, Texas A & M approved an award by UDI for the conversion of the ship to M & M Pipe and Pressure Vessel Fabricators, a subsidiary of Ham Industries, which is located in Pascagoula, Mississippi. Drydocking of the ship is scheduled for the week of October 15, and the final conversion is estimated to be completed by November 26.

The estimate for the shipyard work exceeded the original estimate because the size and complexity of the scientific laboratory spaces were greater than originally proposed. The laboratory spaces now consist of over 12,000 square feet, which is almost double that originally envisioned. The Interface Working Group (IWG) is in the process of reviewing the budget and program elements of the Ocean Drilling Program in order to reconcile the estimated costs for fiscal years 1984 and 1985 vis-a-vis the funds that would be available from NSF for those two fiscal years.

Texas A & M is working with the PCOM on the latest scientific schedule; with LDGO in regard to the cooperative efforts on logging; with UDI on the conversion, sea trials and logistics required to prepare the SEDCO/BP 471 for its first scientific cruise; and with the various elements of the scientific community so that the first scientific cruise will take place as scheduled on January 1, 1985.

Site Survey Program

The USSAC Field Programs Panel, under the Chair of Dr. John A. Orcutt (SIO), met May 21-22, 1984 in La Jolla and again on June 5-6, 1984 in Washington, DC to complete the evaluation of the competitive proposals re-

ceived for the conduct of the Chile Triple Junction Survey. The review team continued its deliberations in late June and early July by telephone conference. After careful consideration of all reasonable options, including that of a teaming arrangement for the conduct of the survey program at a reasonable cost, the Panel recommended that each of the proposals be rejected due to (1) imposition of unattainable operational goals and (2) an excessive budget.

The Regional Synthesis ATLASES, produced under the NSF-sponsored Ocean Margin Drilling Program, are currently available for sale by Marine Science International, a division of Jones and Bartlett Publishers, Inc., 1420 Statler Office Building, 20 Park Place, Boston, MA 02116, under contract to JOI Inc.

The first four of thirteen ATLASES, identified as Volumes II, III, IV and V, cover the "Eastern North American Continental Margin and Adjacent Ocean Floor." As of June 30, 1984, the publisher reports that a total of 1300 ATLASES have been either sold or are on back order, with most of the sales going to ocean industries. The publication of the following ATLASES is scheduled for early fall 1984:

I: Western North American Continental Margin and Adjacent Ocean Floor Off Oregon and Washington.

VI: Gulf of Mexico.

X: Lesser Antilles and Adjacent Ocean Floor.

XII: Northwest African Continental Margin and Adjacent Ocean Floor Off Mexico.

IPOD SITE SURVEY DATA BANK

The IPOD Site Survey Data Bank at Lamont-Doherty Geological Observatory has recently (June-September 1984) received the following data:

- 35mm microfilm of single channel monitor and 3.5 kHz records, cruise R/V FRED MOORE 2501 (IPOD site survey, Blake Bahama Region); from the University of Texas at Austin.
- "Submarine canyon and slope processes on the U.S. Atlantic continental margin" by B. McGregor, from USGS.
- "The Continental Margin of Queen Maud Land/Antarctica: Seismic Sequences, Structural Elements & Geological Developments" by Hinz & Krause; and "Results of Geophysical Investigations in the Weddell Sea & Ross Sea" by Hinz & Block; from K. Hinz, BGR.
- Multichannel lines BE-74-51, BE-74-70 and BE-75-101 from Baffin Bay area; from J. Pierce, Petro Canada.
- Environmental geologic studies on the U.S. Mid- and North Atlantic outer continental shelf area; Geological report for proposed Oil and Gas Lease Sale #90, continental margin off Southeastern United States; Multichannel seismic reflection profiles collected south of the Pt. Conception area off California, 1979; from USGS.
- Cruise report, Meteor 67, "Reflection seismic, gravity and magnetic measurements in the diapiric province and in the magnetic quiet zone off Central Morocco; from K. Hinz, BGR.
- Navigation, bathymetric and sediment thickness maps and multichannel seismic profiles pertaining to Norwegian Sea drilling proposal; from the JOIDES Norwegian Sea Working Group (Olav Eldholm).
- Computer tape of merged navigation, bathymetry and magnetics from cruise FM 25-01, JOI survey in the Florida Straits, Little Bahama Bank and Exuma Sound; from J. Austin, University of Texas.

EUROPEAN SCIENCE FOUNDATION

Request for Ocean Drilling Proposals

The European Science Foundation (ESF) is accepting drilling proposals/ideas from all European countries which are not members of JOIDES, irrespective of whether they are member countries of the ESF Consortium. While JOIDES member countries (France, Federal Republic of Germany, and the United Kingdom) have separate internal procedures for coordinating drilling proposals, ESF will endorse and submit to JOIDES proposals and ideas emanating from all other European countries, thus lending these proposals more weight than if submitted on an individual basis. Contact the ESF Secretariat for forms and additional information.

Bernard Munsch
 Ocean Drilling Program
 European Science Foundation
 1, quai Lezay-Marnesia
 67000 Strasbourg
 France
 Tel. 33 (88) 35.30.63
 Tlx. 890.440 F

JOIDES PANEL AND COMMITTEE MEETINGS

Recent Meetings

June 1984	6-8	Information Handling Panel (Miami, Florida)
	11-12	Lithosphere Panel (Washington, D.C.)
	19-21	Executive Committee (Strasbourg, France)
July 1984	20-21	Mediterranean Working Group (Paris, France)
August 1984	30-31	Pollution Prevention & Safety Panel (TAMU)
Sep 1984	3-4	Caribbean Working Group (Durham, U.K.)
	3-5	Southern Oceans Regional Panel (Bremerhaven, FRG)
	5-7	Indian Ocean Panel (Strasbourg, France)
	10-13	Tectonics Panel (London, U.K.)
	10-15	Atlantic Regional Panel (Grenoble, France)
	12-14	Central & Pacific Regional Panel (Oxford, U.K.)
	20-21	Downhole Measurements Panel (LDGO)
25-27	PCOM (Hawaii)	

Future Meetings

Oct 1984	2-5	Western Pacific Regional Panel (Lamont-Doherty)
	3-4	Technology & Engineering Development Comm. (LDGO)
	15-17	EXCOM (University of Rhode Island)
Nov 1984	6-8	Lithosphere Panel (Miami, Florida)
	12-14	Sediments & Ocean History Panel (Carmel, Cal.)
	28-29	Site Survey Panel (Scripps Inst. of Oceanography)
Dec 84/Jan 85	?	PCOM (near drillship, ODP/TAMU to arrange) - <u>Tentative</u>
	?	EXCOM (Hawaii or near drillship) - <u>Tentative</u>
March 1985	26-28	PCOM (Washington, DC or other central location)
June 1985	4-6	PCOM (JOIDES member country)

DEEP SEA DRILLING PROJECT

INFORMATION HANDLING GROUP

Background

The DSDP data bank is a dynamic library of information. As the Project has expanded so have the areas of responsibility of the DSDP Information Handling Group (IHG). Not only has the volume of data multiplied, but the kinds of data and information handled have also increased. The IHG manages all aspects of routine collection, storage, and retrieval of data, in addition to specialized areas of scientific interest which require computer-assisted technology. We have three primary goals in this work: (1) to preserve the data collected by DSDP operations for future use; (2) to make data readily available to qualified scientists upon request; and (3) to provide advice and assistance by means of computer reduction and display of data to contributors to the Initial Reports. Now that the project is in a close out stage, these goals take on a new perspective with emphasis on the completion for archives and future research. Our major effort today is to produce a clean package of DSDP prime and processed data which eventually will be available to the scientific community through the National Geophysical and Solar Terrestrial Data Center (NGSDC) in Boulder, Colorado.

Data Availability

The DSDP Sample Distribution Policy restricts the release of scientific data gathered aboard GLOMAR CHALLENGER to those immediate members of the respective shipboard scientific party for a 12-month period following completion of the cruise. This policy excludes the Preliminary Report on underway data containing track charts and data indexes; these data have immediate unlimited distribution. DSDP may require reimbursement for expenses if a data request costs more than \$50.

Table DSDP-1 summarizes and categorizes the data. With the exception of the seismic data, which are available only on microfilm or hardcopy, all data are stored and are available on magnetic tape and microfilm. Investigators can also obtain copies of the original data (shipboard forms) on microfilm, or they can view them at DSDP headquarters at Scripps Institution of Oceanography or at Lamont-Doherty Geological Observatory.

A major work effort towards updating the data bases for visual core descriptions, smear slide descriptions, and paleontology is in its final stage of completion.

The hard rock minor- and major-chemical analyses files continue to be modified and updated as more data is published and coded. The hard rock paleomagnetism data base is now available upon request for those legs specified in Table DSDP-2.

Logging data were collected on selected legs. These data are available on magnetictape or analog strip charts for Legs 60, 61, 63-65, 67, 68, 70-76 and 78; analog records are only available for Legs 66 and 69; magnetic tapes are available for selected sites from Legs 46, 48, 50 51, 52 and 57.

Data Handling and Retrieval Tools

The special reference files (Sitesummary, Guide, Ageprofile, and Coredepth, see Table DSDP-2) are used independently and in coordination with other files in (a) multi-step searches, and (b) generation of standard files with assigned ages (from Ageprofile) and/or sub-bottom depths (from Coredepth).

The Sitesummary file contains key data for each hole including drilling statistics, site location, age of sediments, presence of basement sediment and hard rock descriptions.

The Guide (to DSDP cores) also summarizes data published in the Initial Reports (Legs 1-34)^F, but in a different format than in the Sitesummary file. It comprises thirty categories of data which summarize the characteristics of each core. The Guides are available on microfiche and magnetic tape. All of these files can be accessed by DATAWINDOW - DSDP's principal program for the retrieval and display of data.

DATAWINDOW transfers data between tape and disk storage, updates tapes, corrects records, and monitors the tape status within a tape series (storage unit for our data base files). Access is accomplished through independent easily modifiable data dictionaries which the program references in both its interactive and batch modes of operation. Individual requests can easily be constructed

using DATAWINDOW's versatile search commands. Through DATAWINDOW, investigators can search the data bases by leg(s), site(s), ocean area(s), and age(s), in addition (or linked) to specific elements stored in each data base.

Requesting Information or Data

We encourage researchers to use all these extensive data systems described above. Address your requests for information or data to:

Information Handling Group
Deep Sea Drilling Project, A-031
Scripps Institution of Oceanography
La Jolla, CA 92093
(Tel: (619) 452-3526.

(Lillian Musich, DSDP
Information Handling Group).

CORE REPOSITORIES

Samples from DSDP Legs 1-93 are available to investigators for studies which will result in published papers. We encourage investigators who desire samples to obtain a statement of the NSF/DSDP sample distribution policy and a sample request form from the DSDP Curator before submitting requests. (A statement of the sample distribution policy also appears in the Initial Reports and in the Initial Core Descriptions.) We ask that requests for samples be as specific as possible. Requestors should specify the hole, core, section, interval in centimeters measured from the top of each section, and sample volume in cubic centimeters. Refer to the graphic core descriptions in the Initial Reports and/or the Initial Core Descriptions for core details.

Samples for research which will be reported in publications other than the Initial Reports cannot be distributed until one year after the completion of a cruise or two months after publication of the Initial Core Descriptions for the cruise, whichever occurs sooner.

The DSDP Curator can approve many standard requests in his own office, but requests for material of particularly high interest (e.g., certain hydraulic piston cores, key stratigraphic boundaries) or for large volumes of material must be forwarded by the Curator to the NSF Sample Distribution Panel for review and approval.

Cores from the Atlantic and Antarctic oceans and the Mediterranean and Black seas (Legs 1-4, 10-15, 28, 29, 35-53 71-82, and 93-96) are at the East Coast Repository at the Lamont-Doherty Geological Observatory. Cores from the Pacific and Indian oceans and the Red Sea (Legs 5-9, 16-27, 30-34, 54-70, and 83-92) are at the West Coast Repository at the Scripps Institution of Oceanography. The thin sections and smear slides from a particular cruise are stored at the same repository as the cores from that cruise. Photographs of all cores and prime data and publications from all legs are kept at each repository. Frozen samples (collected specifically for organic geochemical analyses), interstitial water samples, and gas samples from all DSDP legs are kept at the West Coast Repository. Interested scientists may view the cores, core photographs, or other associated data at either repository by making arrangements in advance with the Curator. Investigators wishing to visit either are urged to request appointments well in advance because each repository is currently booked with visitors three to four months ahead.

Many thin sections that were loaned to investigators are missing from the collection. Their absence diminishes the usefulness of the collection to the entire scientific community. We ask all investigators who have borrowed thin sections or smear slides to return them as soon as possible to the repository where the corresponding cores are stored.

Please address your questions or sample requests to:

The Curator
Deep Sea Drilling Project, A-031
Scripps Institution of Oceanography
University of California, San Diego
La Jolla, CA 92093
Tel. (619) 452-3532

(Linda Garifal,
DSDP Assistant Curator).

Table DSDP-1.

DEEP SEA DRILLING PROJECT - DATA BASE STATUS
Physical Properties, Quantitative and Analytical Core Data

<u>DATA FILE</u>	<u>LEGS</u>	<u>COMMENTS</u>
Carbon-carbonate (shore lab)	1-79	No data for Legs 46, 72
Carbonate-BOMB (ship)	68, 70-73, 78-80, 84, 85, 89, 90, 94	
Grain-size (sand-silt-clay) (shore lab)	1-76	No data for Leg 16. Legs 64 & 65 not yet available.
G.R.A.P.E. (gamma ray attenuation porosity evaluator) (shipboard measurements, processed and edited onshore)	1-87, 89-90, 93-96	No data collected on Leg 46. Legs 45, 88, 91-92 GRAPE to be completed.
Hard Rock Major-Element Chemical Analyses (prime and onshore labs)	13-19, 22-30, 32-39, 41, 42A, 43, 45-46, 49, 51-55, 58-65, 68-70.	No data for Legs: 1-12, 20-21, 31, 40, 42B, 44, 47-48, 50, 56-57. Includes igneous and metamorphic rock and sediment composed of volcanic material.
Hard Rock Minor-Element Chemical Analyses (prime and onshore labs)	13-19, 22-26, 28-34, 36-39, 41-42A, 43, 45-56, 49, 51-55, 58-65, 68-70	No data for Legs: 1-12, 20-21, 27, 35, 40, 42B, 44, 47-48, 50, 56. Same set of data source as major-element file.
Hard Rock Paleomagnetism	14-16, 19, 23, 25-29, 32-34, 37-38, 41-43, 45-46, 49, 51-55, 58-66, 70.	No data for Legs: 1-13, 17-18, 20-22, 24, 30-31, 35-36, 39, 40, 47-48, 50, 56-57.
Sonic Velocity (shipboard, Hamilton Frame)	3-95	Leg 71 not completed.
Water Content (shipboard lab)	1-88	No data for Leg 41
Long-core Spinner Magnetometer Sediment Paleomagnetism	68, 70-72, 75	From hydraulic piston cores. This is a CLOSED data base due to rust contamination of cores and sediment disturbance.

Table DSDP-1 (continued)

DEEP SEA DRILLING PROJECT - DATA BASE STATUS
Physical Properties, Qualitative and Analytical Core Data

<u>DATA FILE</u>	<u>LEGS</u>	<u>COMMENTS</u>
Discrete Sample Magnetics, sediment	71-73, 75	From hydraulic piston cores.
Alternating Field Demagnetization	72, 73, 79	From hydraulic piston cores.

Lithological and Stratigraphic Core Data

Paleontology (onshore labs)	1-71	From Initial Reports. Includes 10,000 species from 24 bug groups.
SCREEN	1-66	Output from JOIDESCREEN. Computer-generated lithological classification includes basic composition data, average density, and age of layer.
Smear Slide Descriptions	1-95	Shipboard observations. (There are no smear slides for Legs 83 & 88)
Thin Sections	49 only	Legs 37, 45, 46, 51-55, 57-64 keypunched.
Visual Core Descriptions	1-85	Shipboard observations.

Table DSDP-2

DEEP SEA DRILLING PROJECT - DATA BASE STATUS
Underway Data

<u>DATA FILE</u>	<u>LEGS</u>	<u>COMMENTS</u>
Bathymetry	7-9, 13-56, 61-96 7-9, 12-96 3-96 1-96	Seismic data available only in hardcopy or micro-film.
Merged format files (MDG77)	1-80	
SPECIAL REFERENCE FILES		
Sitesummary	1-96	Hole oriented.
DSDP/Guide	1-34	Core oriented. Microfiche or tape.
Ageprofile	1-96	Hole, core, section. From biostratigraphy.
Coredepth	1-96	Hole-core. Primary reference tool.
AIDS TO RESEARCH		
Datawindow		Search & retrieval program, data base maintenance.
Mudpak		Plotting program, handles multiple parameters.
Maps		Topographic maps with DSDP sites.
DASI/Inquiry		DSDP affiliated scientists & institutions searchable.
Keyword Index-Search		Constructed from bibliography & sample request files. Searchable keywords & site numbers.
Sample Records		Point data inventory.
Data Data		Series of informal specific memoranda containing detailed descriptions of procedures and capabilities of the IHG.

PROPOSALS - OCEAN DRILLING PROGRAM

The following is a list of proposals which have been received by the JOIDES Office through early August 1984. Each proposal is under review by at least one of the JOIDES advisory panels. Persons wishing to submit proposals should consult the Guidelines (see this and recent issues of the Journal). Comments or inquiries relating to existing proposals should be directed to the respective advisory panel chairpersons (see Directory) or to the JOIDES Office at the University of Rhode Island.

Central and Eastern Pacific Ocean

Ridge crest subduction along the Southern Chile Trench.

Regional seismic reflection profiles across the Middle America Trench and convergent margin of Costa Rica.

Drilling in the vicinity of the Hawaiian Islands.

Drilling in the Tuamotu Archipelago (French Polynesia).

Preliminary proposal: Costa Rica drilling.

Zero age drilling: East Pacific Rise 13°N.

Pacific-Aleutian-Bering Sea (PAC-ABERS) proposal.

Southern Ocean

Southern Ocean Drilling: a) Sub-Antarctic sites (SA), b) Weddell Sea sites (W).

Drilling proposal on the continental margin off Adelie coast.

Drilling on the Shaka Ridge.

Indian Ocean

Deep sea drilling in the Indian Ocean.

Paleoenvironmental history of the Red Sea.

Drilling to constrain the history of deformation and relationship between fault surfaces and upward flow of water in the region of intraplate deformation, Central Indian Ocean.

The Makran Forearc, Pakistan.

Tectonic evolution of the Andaman Sea in relation to the relative displacement of Indochina with respect to India.

History of formation of the African-Arabian margin and adjacent oceanic lithosphere.

The conjugate passive rifted margins of Madagascar, East Africa and the Western Somali Basin.

The Davie Fracture Zone: A transect across the conjugate passive transform margins of Mozambique and Madagascar.

Atlantic Ocean

IPOD drilling in Cape Verde.

Pre-middle Cretaceous geologic history of the deep southeastern Gulf of Mexico.

Structural and sedimentological development of carbonate platforms (Bahama-Blake Plateau Area).

Ocean crust and high latitude paleoceanography in the Labrador Sea.

Gulf of Mexico area.

A Mediterranean drilling site.

Pre-Messinian ocean history of the Mediterranean.

Cenozoic events in oceanic and atmospheric circulation off N.W. Africa.

Drillsites at Porto and Vigo seamounts, Iberian continental margin.

A transect across the Tyrrhenian Back-arc Basin.

Paleocommunication between the North and South Atlantic Seas during the Cretaceous: Formation of the Atlantic Ocean.

Atlantic-Mediterranean relationships (Gulf of Cadiz, Alboran Sea): Paleogeographic and paleohydrologic evolution since the Miocene.

Deep oceanic crust and upper mantle drilling in the Gorrige Bank (Atlantic Ocean, S.W. Portugal).

Galicia Bank (Spain).

Drilling on the Eleuthera Fan (Bahamas).

Subduction-collision: The outer Hellenic Arc.

Rifting, stretching and oceanic accretion in the Tyrrhenian Marginal Basin.

The Rhone deep-sea Fan site.

Caribbean Basins.

Additional proposed sites for drilling in the Barbados Ridge accretionary complex.

Drilling in the Norwegian Sea.

Re-entry for logging of Site 534, Blake-Bahama Basin.

Paleoenvironmental drilling in the Equatorial Atlantic.

N.E. Gulf of Mexico (DeSoto Canyon).

Continental margin sediment instability investigated by drilling adjacent turbidite sequences.

Northern Barbados Forearc: Structural and hydrological processes (incorporates proposals by Biju-Duval and Moore titled "Barbados Forearc", and by Mascle and Biju-Duval titled "Barbados Transects").

Drilling of the Barbados Forearc (incorporated into proposal by Moore and Mascle titled "N. Barbados Forearc").

New drilling along Barbados transects (incorporated into proposal by Moore and Mascle titled "N. Barbados Forearc").

Primary drilling sites for ODP (Yucatan Basin).

Newfoundland Basin: Eastern Canadian Margin.

Madeira Abyssal Plain.

West Baffin Bay.

Deep basins of the Mediterranean.

Rock stress measurements in the southern part of the Norwegian Sea.

Site NJ-6.

Drilling along the continental margin of Morocco, N.W. Africa.

A two-leg transect across the Lesser Antilles forearc.

Western Pacific Ocean

Deep sea drilling on the New Hebrides Island Arc.

Deep sea drilling sites on the Tonga Kermadec Arc.

Sulu Sea Marginal Basin and Sulu-Negros Troughs.

Tectonic evolution of the South China Sea Marginal Basin.

Transect across Ryukyu Island Arc and Okinawa Backarc Basin.

An informal proposal for future ODP drilling in the South China Sea Basin.

Scientific ocean drilling along the Manila Trench Subduction Zone, South China Sea.

South China Sea Basin.

Eastern Banda Arc/Arafura Sea.

Scientific drilling in the Nankai Trough.

Scientific drilling in the Sea of Japan.

The Solomon Sea: A suggested drilling target.

Outline of suggested ocean drilling programs in Southwest Pacific.

Preliminary proposal for deep sea drilling in Sunda Straits area.

Tonga-Lord Howe Rise transect.

Magnetic Quiet Zone: Australia's southern margin.

INSTRUMENTAL/TECHNICAL

Setting up of an upper water column research laboratory.

Vertical seismic profiling for the ODP.

Laboratory studies of basalt and rock cores on SEDCO/BP 471: Principal horizontal stresses in the oceanic crust from anelastic strain recovery & other rock studies.

Borehole seismic experiments at the DSDP sites 417 and 603.

FOCUS

LETTER FROM THE PLANNING COMMITTEE CHAIRMAN

On 1 October, by the time you read this, the chair of the Planning Committee will have moved to the University of Rhode Island with Roger Larson at the helm. As the outgoing PCOM chairman, I would like to express my sincere thanks to the members of the Planning Committee and of the other advisory panels and committees, to the people at JOI, NSF, ODP/TAMU and to the many other individuals who helped guide the program during the past two years. Together we have experienced the phasing down of the extremely successful Deep Sea Drilling Project, and the start up of the new Ocean Drilling Program which promises to be as exciting as the DSDP. Compared to our situation about a year ago, I think you will agree with me that JOIDES has come a long way. We now have a superb drillship in the SEDCO/BP 471, an exciting schedule for scientific ocean drilling beginning in the Bahamas only a few months from now, and an expanded JOIDES membership. I look forward to continuing my work with JOIDES and the Ocean Drilling Program. In the meanwhile I take this opportunity to extend a formal welcome and my best wishes to Roger Larson as the new Planning Committee chairman and to his JOIDES Office staff at the University of Rhode Island.

Sincerely,


J. Honnorez

Paleontologic data from Initial Reports of Deep Sea Drilling Projects Volumes 1-71 are now available for computer searches. The system includes all fossil groups cited in these volumes. For information contact:

Lillian Musich
Information Handling Group
Deep Sea Drilling Project, A-031
Scripps Institution of Oceanography
La Jolla, California 92093
Tel: (619) 452-3526

DSDP Site Map Updated

Topography of the Oceans with Deep Sea Drilling Project sites now available through Leg 96. To request map contact:

Barbara J. Long
Information Handling Group
Deep Sea Drilling Project, A-031
Scripps Institution of Oceanography
La Jolla, California 92093
Tel: (619) 452-3506

JOIDES COMMITTEE AND PANEL REPORTS

PLANNING COMMITTEE

The Planning Committee met 21-23 May 1984 in Paris, France.

OCEAN DRILLING PROGRAM REPORT

L. Garrison (ODP) reported.

Staffing:

ODP staffing at TAMU is about 50% completed. Three or four staff scientists have been hired and 2 or 3 offers are out and are now being considered. Several European scientists will be interviewed over the next few weeks for staff scientist positions. Interviews are also underway at TAMU for marine technicians. The Manager of Science Operations position has yet to be filled. Publications staff will be hired in the near future.

Procurement:

Most of the effort at ODP is being spent in the area of equipment and instrumentation procurement. As requested by the Executive Committee, TAMU has sent RFPs and bid requests to non-US EXCOM members and has asked SEDCO to do the same.

Budget:

The final budget will not be known until after the costs for ship conversion are known. The plan at this time is to go ahead with the purchase of shipboard equipment and to defer the purchase of some shore-based equipment. The 1984 budget for ODP (TAMU) is \$19.1M and \$1.1M for the logging subcontract (LDGO).

Program Plans:

Plans for the early ODP legs are underway. Co-chief scientists for the first two legs have been invited and have accepted. They are:

W. Schlager and J. Austin for Leg 101 - Bahamas;

G. Westbrook and R. Speed for Leg 102 - Barbados N.

Staffing for Leg 101 will begin immediately upon return to TAMU from the PCOM meeting.

All scientific personnel who participated in DSDP Challenger cruises have been contacted and requested to fill out forms if they are

interested in ODP and wish to be involved in ODP drilling legs and shorebased science. The response so far has been very good. Similar forms will be sent to PCOM members.

Shipboard Laboratory Layout:

The laboratory layout plan presented to the Planning Committee at the last meeting (3 levels below and 4 levels above the main deck) has since been changed to 3 levels below and 3 levels above the main deck. Two days before the final plans were due SEDCO informed ODP that 4 levels above the main deck would have to be reduced to 3. Reasons for eliminating one level were cost, station keeping ability, and stability. Total lab space in the 6 levels, however, exceeds the 10,400 ft² RFP requirement.

Bare Rock Drilling:

Bare rock drilling will not be ready for Leg 103 - Mid Atlantic Ridge/Kane FZ. Even if adequate funds were available, insufficient time remains to complete the development of bare rock drilling.

A. McLerran (ODP) reported on the status of riser drilling and of bare rock drilling.

The schedule below indicates time requirements to gear up for riser drilling:

Month 0: Start initiative for riser drilling

Month 12: Submit preliminary science plans and planning budget

Month 24: Final cost estimate for riser drilling to NSF

Month 36: Start final well design and equipment procurement

Month 48: Spud riser hole.

The main advantages of riser drilling are: easy reentry; improved hole stability; pollution prevention; and increased drilling efficiency by using circulating drilling fluids.

It is projected that riser drilling will increase ODP operating costs by about 60 %. Recent riser drilling off New Jersey by Shell Oil produced a 4.5 km hole at a cost of \$36M. Time required was 152 days; coring was minimal.

Site survey requirements for riser drilling differ from conventional drilling survey requirements. In general, better and more detailed survey will be required. It is important to know as much as possible about the physical properties of the sea floor and subsurface sediments before drilling. An assay of 10 m piston cores would help to define the physical properties of the upper sediments.

Bare rock drilling is under development. About 18 months are required before the concept can be tested. TAMU has been working on development for about 2 months so another 16 months work are needed before testing is feasible.

Bare rock drilling poses two major problems: a) the design of a suitable platform structure to stabilize the bit on the sea floor, and b) actual drilling.

We envision a tripod platform capable of providing a vertical cone on sea floor slopes of up to 10°. The base of the structure will be about 6-7 m diameter.

LOGGING SUBCONTRACTOR REPORT

D. Fornari reported for R. Anderson (Director, Wireline Logging Service Operator).

Negotiations leading to subcontracts with Schlumberger for standard logging services and with the USGS for specialized tools are in progress.

Staffing is completed with 8 persons associated with the ODP logging services at LDGO.

The budget reduction has impacted the logging phase for ODP. We intend to accommodate the cut by:

1) No logging on Leg 101 (Bahamas) - cost savings = \$220K.

2) No wireline packer development in FY 1985 - savings = \$75K.

(On July 6, 1984 Dr. Fornari sent the following addendum to the above report:

"In presenting the ODP logging program and budget to the PCOM, Fornari expressly stated that the program and budget were geared to fulfilling our contractual mandate to provide both standard and specialty logging for ODP drilling holes. Because of serious budget cuts, up to the time of the meeting (late May),

we had to make compromises and trade-offs throughout the entire logging program. We presented our program to PCOM with the express idea of getting direction from that group as to how best to serve the various technical and scientific interests of the ODP.

Since the May meeting, NSF and JOI have reinstated some funds to the logging budget so that we can log Leg 101 with standard logs and purchase some special tool equipment items which we had initially deferred to FY 85 and beyond.")

Discussion:

The Planning Committee voiced strong objections to the proposed cuts in logging and packer development.

The PCOM later made recommendations concerning logging; see JOI report.

NATIONAL SCIENCE FOUNDATION REPORT

H. Zimmerman reported.

The status of ODP membership is as follows:

European Science Foundation signed as a candidate member. Spain and Greece have expressed interest in joining the ESF consortium.

Federal Republic of Germany has joined as the first full member.

United Kingdom is considering full membership.

France has accepted the language of the MOU as a candidate member.

Japan is ready to sign as a candidate member (S. Toye of NSF is in Japan at this time).

Canada has signed as candidate member and is now discussing full membership.

Other countries which are showing a strong interest in the ODP are Brazil, Australia and New Zealand. NSF will present the ODP to Brazilian marine geologists at a meeting in July (in Brazil).

An environmental impact statement (EIS) for the ODP is being written. A new EIS is required primarily because of the high latitude drilling and riser drilling planned for the new program.

The estimated ODP budget for 1985 is \$30.4M (JOI, TAMU, LDGO).

DSDP phasedown budget is \$5.55M through 1987.

FY 1985 = \$2.77M

FY 1986 = \$2.33M

FY 1987 = \$0.75M

The DSDP phasedown includes such items as scientific staff, publications, data base, Initial Reports index, and administration.

The only part of the DSDP phase-down that might be deferred is the index. The cost for the index is \$300K in 1984 for part 1 with a total cost of about \$500K. The contract for part 2 has not yet been signed. The contract for part 1 could be cancelled for a penalty of about \$50K. PCOM may wish to consider cancellation of the index to make the funds available elsewhere (e.g. logging). Estimated ODP budget is shown in Fig. 1.

PCOM Consensus:

The consensus of the Planning Committee is expressed in the following motion.

PCOM MOTION: The Planning Committee requests that it receive each year a draft of the proposed ODP budget at a sufficient level of detail so that it may have full information for future scientific recommendations.

A meeting of a PCOM subcommittee resulted in a recommendation that budget adjustments should be made to accommodate the following PCOM priorities:

- logging on all legs.
- purchase of a wireline packer in time for modifications to be completed for the Barbados leg.
- purchase of important shipboard equipment and instrumentation.

ODP BUDGET ESTIMATED TO DATE

<u>Income</u>	<u>1984 \$M</u>	<u>1985 \$M</u>
U.S. Appropriation	26.3 (-.9)	27.6
International - ODP	1.2	1.875
International - DSDP	1.2	
Other Income	3.6*	
	<u>32.3</u>	<u>29.475</u>
 <u>Budget Items</u>		
JOI/TAMU/LDGO	21.7	30.4*
DSDP	7.4	2.7*
	<u>29.1</u>	<u>33.1</u>
<u>U.S. Science Program</u>	3.5*	?
	<u>32.6</u>	

*Estimate

If additional ODP funds cannot be acquired, then compilation and publication of the index for the Initial Reports should be delayed.

A PCOM "Standby" subcommittee consisting of the PCOM Chairman (J. Honnorez), R. Larson (PCOM Chairman designate) and H. Beiersdorf (FRG) will advise ODP(TAMU), NSF, JOI and the Logging Contractor (LDGO) on PCOM recommendations relating to budget cuts.

DEEP SEA DRILLING PROJECT REPORT

Y. Lancelot reported for DSDP.

Primary functions at DSDP are publication of the Initial Reports, transfer of data into the TAMU/ODP system, and curatorial duties.

Initial Reports:

All outstanding Initial Reports should be completed by December 1987.

Vol 75 - recently sent to Washington.
Vols. 77, 78 - will be mailed soon.
Vols. 79-81 - will be sent later this year.
Vols. 82-86 all manuscripts are in.

The Initial Core Descriptions are again being published in hard copy, and are available for legs 86-92.

The budget (\$300K) for Part 1 of the index to the Initial Reports was probably overestimated. Actual cost is more like \$200K. The contract for Part 1 could be cancelled for a loss of about \$50K to realize a savings of about \$200-250K. This action is not recommended because the project may be black-listed among the few contractors doing that type of work. A better solution would be to go ahead with Part 1 and defer Part 2.

Data bases are nearly completed.

JOINT OCEANOGRAPHIC INSTITUTIONS INC. REPORT

J. Clotworthy reported.

When NSF approached JOI to manage the ODP, much uncertainty existed regarding Congressional funding, the cost of DSDP phase-down, and the level of international participation in the program.

Some of that uncertainty still exists. The final cost of ship conversion is still unknown, and only one full partner (FRG) exists at this time. NSF firmed up the budget guidelines for

ODP in early April. Last week the PCOM chairman was informed of the rough budget. At this meeting the overall budget was presented to the Planning Committee. The costs will continue to be under review as long as the uncertainty in costs and income continue. Input from the Planning Committee is needed to make the budgetary decisions.

Discussion:

H. Beiersdorf (FRG) - Germany may have problems maintaining its commitment to ODP if other countries do not join as full members.

E. Winterer (SIO) - What is the day rate for the SEDCO/BP 471?

L. Garrison (ODP) - The range is \$32-53K/day + fuel = about \$45K/day. (L. Garrison will send more data on day rates to each PCOM member, to provide background information in case a temporary shut-down of drilling comes under consideration).

PCOM Consensus:

Log Leg 101 and make budgetary adjustments elsewhere.

PCOM MOTION: The Planning Committee reiterates its scientific advice that there should be conventional logging on every leg.

(D. Fornari commented that the logging subcontractor will be ready to log Leg 101 by January 1985).

EXECUTIVE COMMITTEE REPORT

J. Honnorez, PCOM liaison to EXCOM, reported on the 6-7 March 1984 meeting.

Site Survey Panel (SS-SP):

J. Bowman, the U.K. representative to EXCOM, raised the issue of the effectiveness of the Site Survey Panel. At its 6-7 March 1984 meeting in Baltimore, the Executive Committee passed the following motion:

- "1. EXCOM recognizes that it should be the responsibility of those scientists making specific drilling proposals to obtain adequate site survey information.
2. EXCOM asks PCOM to examine the role of the Site Survey Panel.
3. EXCOM suggests that PCOM should consider the desirability that the JOIDES office act as a coordinating office to link scientists having specific drilling proposals

needing additional site survey information to a representative of each member who will be in a position to disseminate the need to relevant scientists and institutions in their constituency."

Several PCOM members felt that points 1 and 3 of the motion were in part contradictory. The following points of view were expressed by PCOM members during discussion of the SS-SP:

- comingled funds should be used for regional (not site specific) surveys.

- funds independent of JOIDES and ODP should be used for surveys for problem definition. The burden for detailed surveys is now unfairly borne by the U.S.

- the SS-SP has never worked well.

- the SS-SP may not be needed and could be replaced by an IPOD Data Bank officer.

PCOM Consensus (SS-SP):

A fundamental problem exists with the coordination of site surveys. Staff work, either through the JOIDES Office or the IPOD Data Bank is needed; the SS-SP cannot be expected to do the required staff work.

A PCOM subcommittee consisting of T. Mayer (U.K.-URI Joides Office), J. Honnorez (PCOM chairman) and R. Larson (PCOM chairman designate) will discuss the above concerns with the SS-SP, decide on the need for staff and management of site surveys and where the staff is to be located (JOIDES Office or IPOD Data Bank), and report their recommendations at the next PCOM meeting in September 1984. The subcommittee will also examine how regional and site specific surveys should be funded.

UNESCO/ODP Cooperation (J. Honnorez continued):

The Executive Committee recommended that each JOIDES member nation use bilateral agreements to aid participation in ODP by scientists from third-world countries.

Discussion:

H. Beiersdorf (FRG) informed PCOM that German participation in ODP was presented to representatives of 10 third-world countries at a recent "marine affairs" meeting in Malta. Sri Lanka expressed interest in ODP.

ODP Leg Number Designation:

EXCOM decided that ODP legs will begin with Leg 101 and Site 625.

Name of ODP Ship:

The issue of a new name for the SEDCO/-BP 471 was raised at EXCOM.

Discussion:

L. Garrison (ODP) - SEDCO has indicated that it would consider a new name, and prefers that the ship not be named after a person.

E. Winterer - A UNESCO publication lists all past vessels important in exploration.

(Several names were suggested by PCOM members, including the following: "Resolution"; "Argo"; "JOIDES ?"; and "Explorer").

ATLANTIC REGIONAL PANEL REPORT

R. Buffler (TAMU, PCOM liaison to ATL-RP) reported and summarized the minutes of the 15-17 May 1984 meeting of the Atlantic Regional Panel in Miami:

ATL-RP recommended the following schedule:

- Leg 101 - Yucatan
- Leg 102 - Bahamas
- Leg 103 - ENA 3, Hole 417
- Leg 104 - Labrador (without Baffin Bay)
- Leg 105 - Norwegian Sea
- Leg 106 - Galicia
- Leg 107 - N.W. Africa
- Leg 108 - Mediterranean
- Leg 109 - MARK
- Leg 110 - Barbados North

Discussion:

The advantages and problems of drilling in Baffin Bay were discussed by the Planning Committee. A general consensus emerged to include Baffin Bay for the following reasons:

- weather is always a problem in high latitude drilling and high latitude drilling has already been endorsed by COSOD.

- Canada will provide site surveys if PCOM firmly endorses drilling in Baffin Bay.

- Labrador Sea paleoclimate objectives must include Baffin Bay.

- SEDCO and other entities with drilling experience can provide background data.

- daily satellite images of ice condition allow for real-time decisions.

- high latitude drilling and global paleoclimatology are important "new" aspects of ODP.

Norwegian Sea

PCOM felt that the Norwegian Sea leg would provide more information on passive margins, dipping reflectors and paleoenvironment.

Galicia

PCOM generally favored a Galicia leg, but felt that securing clearance from Spain could be a problem.

Mediterranean Sea

L. Montadert (chairman, ATL-RP) informed PCOM that input from the Mediterranean Working Group was not available when the ATL-RP met, so the leg was not thoroughly discussed. A Tyrrhenian Sea leg, however, is preferred. Much data already exists to select sites. More multi-channel seismic data is needed for the eastern Mediterranean.

Drilling schedule:

R. Buffler - The Atlantic Regional Panel felt insufficient data were available to justify drilling the Barbados South leg and therefore substituted the Yucatan leg. Bahamas was changed to Leg 102 because logging would not be available on the first ODP leg.

J. Cann (U.K.) - The ATL-RP and possibly other panels do not appear to understand their mandate. Final selection of legs and integration of the legs into a drilling plan and schedule is the role of the Planning Committee.

L. Montadert (ATL-RP chairman) - The Regional Panels are not in competition with PCOM or with the Thematic Panels. The list of legs represent the ATL-RP priorities, which PCOM should consider in their planning.

PCOM consensus:

The role of the advisory panels should be clarified. Panel chairmen are requested to read the mandates of their respective panels. J. Honnorez will write a letter to the chairmen clarifying their duties.

SEDIMENTS & OCEAN HISTORY PANEL REPORT

H. Schrader (PCOM liaison to SOHP) reported and summarized the minutes of the 7-9 May meeting.

After consideration of the various ODP legs of interest to SOHP, the panel identified themes for future SOHP focus and listed its highest priorities for the next 3-4 years of ODP. An uncertainty in planning is the actual capability of the SEDCO/BP 471 for deep drilling. The panel felt that TAMU should define the drilling limitations of the ship.

PCOM Consensus:

L. Garrison should define the drilling limits of the new vessel and should make the information available to PCOM members so that the future planning is realistic. The data should be available at the September PCOM meeting. The JOIDES office will distribute the information to the advisory panels.

TECTONICS PANEL REPORT

J. Cann (U.K.) made a brief report on the 17-19 May meeting.

Norwegian Sea

Drilling the dipping reflectors is a high priority. A two hole approach is preferred; every effort should be to reach basement (reflector K).

Galicia

Considered to be a high priority leg.

Barbados

North of Tiburon Rise, Hole 541 is the primary objective. South of Tiburon Rise, the western deformation front is the primary objective (west side of Barbados Ridge).

Peru

The panel favored drilling on the upper slope of the Peru Trench.

Mediterranean Sea

The Tyrrhenian Sea was considered to be the best site for a Mediterranean leg. The panel, however, considered Galicia to be a more important leg than the Mediterranean.

The Panel considers the Norwegian Sea,

Galicia, two Barbados legs and Peru to be of higher interest than other legs.

SHORT RANGE PLANNING

The effects on the drilling schedule, Table X of the minutes of the March PCOM meeting of 21-23 March, of the unavailability of bare rock drilling in time for Leg 103 (MARK-1), and the lack of a packer for Leg 102 (Barbados 1) were considered to by the Planning Committee.

Differences of opinion existed among the PCOM members of the extent to which the drilling established at the previous PCOM meeting should be changed. J. Cann (U.K.) felt that only the MARK-1 leg need be changed, to avoid unnecessary hardship on the science operator and all other parties in the process of planning based on the existing schedule. Several other members felt that early legs should be reconsidered because of the lack of bare rock drilling for the scheduled MARK 1 leg, the lack of a packer for the Barbados leg, and because of the high priority given to a Galicia leg by the advisory panels. After discussion, a general consensus was reached that all the early legs should be reconsidered, but that changes should be minimal.

The PCOM then considered the merits of various legs:

Barbados North - (North of Tiburon Rise). Redrill 78A; decollement zone, overpressure, pore waters, temperature, etc. Priority = high.

Barbados South - inner deformation front, thicker sediments (Orinoco fan), less overpressure. No site surveys, no proposal. Priority = medium.

Yucatan - +7000m hole would stretch technical capability of ship.

N.W. Africa and Galicia - high priority legs. Galicia has good surveys, high priority from ATL-RP, if Leg 103 then 102 would be close to U.S.; potential weather problems.

ENA-3 - high priority for Downhole Measurements Panel (DM-SP)

The following schedule was considered fixed:

Leg 101 - Bahamas
Leg 102 - ?
Leg 103 - ?
Leg 104 - Norwegian Sea
Leg 105 - Baffin Bay/Labrador Sea
Leg 106 - MARK-1

Possible new schedule:

Leg 101 - Bahamas
Leg 102 - Barbados South or ENA-3
Leg 103 - Galicia or ENA-3
Leg 104 - Norwegian Sea
Leg 105 - Baffin Bay/Labrador Sea
Leg 106 - MARK-1

The Planning Committee discussed the relative merits of Barbados South, Galicia or ENA-3. A straw vote revealed a consensus for ENA-3 as Leg 102 and Galicia as Leg 103.

J. Honnorez (PCOM chairman) will get input for drilling and logging at ENA-3 from the ATL-RP, and logistics information from ODP/TAMU. He will then contact PCOM members by mail for final planning of the leg. Although less than a full leg (56 days) may be required, extra days will be used to accommodate time changes which may be required on other early legs. Honnorez will inform G. Westbrook and R. Speed of the delay in Barbados drilling.

Consideration of legs beyond Leg 106 resulted in the following schedule and list of potential legs.

INITIAL ODP DRILLING SCHEDULE (MAY 1984)

Start date : 1 January 1985

Legs : 56 day cycle

Leg 101 - Bahamas
Leg 102 - ENA-3/417D, 418A, 395A
Leg 103 - Galicia
Leg 104 - Norwegian Sea
Leg 105 - Baffin Bay/Labrador Sea
Leg 106 - MARK-1
Leg 107 - Tyrrhenian Sea
Leg 108 - N.W. Africa (Cenozoic)
Leg 109 - Barbados North
Leg 110 - MARK-2
Leg 111 - ?
Leg 112 - ?
Leg 113 - ?
Leg 114 - Weddell Sea

Note: Legs 108, 109 and 110 may be delayed 1 leg if N.W. Africa (Mesozoic) is selected for drilling; it would then be Leg 108.

Potential legs under consideration for Legs 111-113:

Ionian Sea
N.W. Africa (Mesozoic)
Barbados South
Yucatan Basin
Venezuela Basin
Hole 504-B
Costa Rica
EPR-1 (13°N)
Peru Trench
Chile Triple Junction

J. Honnorez will mail the list of 10 potential legs under consideration to the advisory panels. Each panel will prioritize several legs from the list and provide a brief justification for their selection and prioritization. The ten potential legs are in competition for the three open legs (111, 112 and 113). PCOM will make the final selection.

L. Montadert will poll the ATL-RP for nominations for co-chief scientists for the Galicia leg and inform J. Honnorez of the names. The ATL-RP will assemble and submit a proposal for Galicia as soon as possible (no later than end of July).

PCOM MOTION: Move that the drill site priorities for the Bahamas as presented by the ATL-RP (15-17 May meeting) be approved for the first ODP leg.

FUTURE COSOD MEETING

J. Honnorez requested that PCOM reconsider scheduling of the next COSOD meeting.

PCOM Consensus:

A subgroup consisting of H. Beiersdorf (FRG), R. Moberly (HIG) and R. Larson (URI) will examine the need for a COSOD or a similar meeting, and report to PCOM at the September meeting.

JOIDES ADVISORY PANELS

Technology and Engineering Development Committee

J. Honnorez informed PCOM that a problem exists in staffing the TEDCOM. Several individuals contacted by the JOIDES Offices are now serving on the ODP/TAMU engineering advisory panel, and therefore do not want to serve on the parallel JOIDES panel. Qualified persons are few, so staffing is a real problem. TEDCOM representatives from Canada, Germany and the United Kingdom have accepted; only 2 of 9 US engineers have

accepted. The committee is very important to non-US members because of the link with future procurement and technological developments.

PCOM Consensus:

Continue to try to staff the panel, even though US members will be difficult to recruit. In the meantime, the TEDCOM should meet; ODP/TAMU engineers should attend the meeting.

Discipline panels:

The JOIDES Office has received several letters criticizing the lack of discipline panels. The JOIDES Office has sent letters explaining that the lack of formal discipline panels in the new structure was deliberate, and that the structure will be reviewed if necessary at a later date.

PCOM Consensus:

The criticisms may be valid. PCOM will examine the disciplines of advisory panel members at the September meeting.

Panel membership:

R. Moberly noted that panel nominations made at the last PCOM meeting were not formally approved. A motion was introduced.

PCOM MOTION: Move that panel nominations made at the 21-23 March PCOM meeting be approved.

OTHER BUSINESS

Downhole Chemistry:

J. Cann (U.K.) informed PCOM of new developments in downhole sensors, of which the marine geology community is most likely not aware.

Publication of DSDP results:

A publisher had contacted J. Cann about publication of a series of books based on DSDP results. Example titles are "Geological Evaluation of the Mediterranean Basin", "The Indian Ocean", etc. Should the contact be pursued?

PCOM Consensus:

PCOM felt that a book series based on deep sea drilling would help synthesize the knowledge, disseminate the results and add to

the visibility of the program. The contact should be pursued.

Terms of Reference - JOIDES Science Advisory Structure:

Mandates are required for the Information Handling Panel and for the Site Survey Panel.

J. Honnorez will ask D. Appleman (IHP-SP chairman) to write the IHP-SP mandate; L. Garrison (former SS-SP Chairman) will search for the panel mandate.

EXECUTIVE COMMITTEE

The Executive Committee met 19-21 June 1984 at the Université Louis Pasteur, Strasbourg, France.

NATIONAL SCIENCE FOUNDATION REPORT

S. Toye (NSF, Ocean Drilling Program Director) reported.

Dr. E.A. Knapp, NSF Director, has announced his plans to resign later this year. President Reagan has announced his intention to nominate Erich Bloch as Director of the National Science Foundation. Mr. Bloch is Vice President for Technical Personnel Development at IBM Corporation. He received his education in electrical engineering at the Federal Polytechnic Institute of Zurich (Switzerland) and his engineering degree from the University of Buffalo (New York, USA). He was born in Sulzburg, Germany, and is a naturalized U.S. citizen.

The FY 1985 NSF budget of about \$1.5 billion has passed the House and Senate committees and is in the process of approval. About \$27.6M is budgeted for the Ocean Drilling Program (includes U.S. contribution to the ODP and U.S. science). The bill also includes language of importance to ODP, i.e. the Director of NSF can indemnify ODP contractors against exceptional losses at sea. This means a savings to the project of about \$0.5M/yr for insurance costs. The bill also commends the new direction of the Ocean Drilling Program and recognizes that adequate ODP staffing at NSF is required.

The FY 1984 current budget is in relatively good shape. \$437,000 has been recovered from Lockheed from the Explorer design contract, and is expected to be restored to the ODP budget. DSDP has closed out with Global Marine and \$100-200,000 may also be made available. Another \$100,000 has been saved by JOI and may also be recovered. A request has been made to recover about \$0.9M; ODP will likely recover some, but not all, of that amount. As much as \$2.0M may be recovered this year and could be used to relieve some of next year's budgetary pressure.

The contract for the ODP Environmental Impact Statement (EIS) will be let later this month. High latitude drilling and other changes from DSDP drilling require a new EIS.

Japan has recently signed the candidate MOU. Dr. N. Nasu, past EXCOM member, has retired and has assumed an important position with Japan's educational television network. Dr. A. Hattori, a biochemist, will be the EXCOM representative. (The Executive Committee requested that A. Berman (EXCOM chairman) write a letter to N. Nasu expressing EXCOM's thanks and congratulations on his new position with Japan's educational television network.

Examination of the FY 1985 budget estimates reveals a serious budget problem. Estimated ODP expenditures for FY 1985 total \$33.6M, whereas income estimates are less than \$25M. The basic problem is a lack of commitment by international partners; the Federal Republic of Germany is the only full member at this time.

JOINT OCEANOGRAPHIC INSTITUTIONS INC. REPORT

J. Clotworthy reported for JOI.

All major subcontracts have been signed: JOI/TAMU (March 5), TAMU/SEDCO (March 13), JOI-LDGO (March 30).

Activities since the March EXCOM meeting have concentrated on preparing program plans for FY 84 and 85 - the basic plan for achieving scientific objectives enunciated by JOIDES. This process has had all of the usual problems where program aspirations and funds available are not in balance. However, we are working our way through, and are convinced that we have a solid, viable program. ODP has some unique problems worth mentioning:

a) U.S. appropriated funds for FY 84 and 85

were fixed in the budget before the ODP proposal was written this time last year.

Consensus:

JOI will keep a record of how important budgetary decisions are reached and will distribute the record to EXCOM as part of the JOI report.

The ODP procurement procedures appear to be working smoothly after an initial rough start-up.

ODP SCIENCE OPERATOR (TAMU) REPORT

P. Rabinowitz (Project Director) reported for ODP.

The following topics were covered in a series of graphs and handouts:

- ODP staffing
- Project plan
- Drillship conversion
- Drillship operations summary and costs
- Scientific spaces for the ODP drillship
- Drillship laboratory layout

Discussion:

A. Berman (RSMAS) - How will ODP budget cuts impact staffing? P. Rabinowitz - Cuts will not impact staffing in 1984 or 1985. If PCOM decides to limit ODP publications, then hiring of publications personnel will be delayed.

B. Biju-Duval (France) - What are the day rates for the SEDCO/BP 471? P. Rabinowitz - The relevant rates are:

- \$34,167/day riserless drilling
- \$33,167/day riserless cruising
- \$32,167/day riserless standby

Additional information is contained in the ODP Project Plan which was sent to JOI.

M. Peterson (DSDP) - Is space provided on the ship for storage of hazardous chemicals and explosives? P. Rabinowitz - Space for storage of chemicals is provided; the ship will not carry large amounts of explosives.

Several EXCOM members expressed concern over the procedure for securing drilling clearances. P. Rabinowitz informed EXCOM that clearances are handled on an individual basis, as each country has its own peculiarities. The U.S. State Department procedure is routinely followed. At this time there does not appear to be a need to hire a "clearances specialist" at ODP.

b) The cost of the largest item in ODP - the ship charter - was not determined until mid-March 1984. It was brought in at an acceptable figure only after strenuous efforts by TAMU at the bargaining table and constructive suggestions from SEDCO on ways in which they might achieve cost reductions.

c) The cost of ship conversion is still open and we'll not know where we stand initially until shipyard bids are opened in August and finally when the work is completed at the end of November. So far SEDCO's cost estimates have been converted to firm order prices within budget and we have no reason to expect this to change.

d) There have also been uncertainties on the funding side of the ledger as noted earlier in the NSF report.

e) As time passes so do some of the uncertainties, but in trying to plan the next two years we have had our problems. The proposed program plan, prepared jointly by LDGO, TAMU and JOI, was discussed with the Chairman of PCOM on May 15, a week before the PCOM meeting in Paris. Several significant actions were offered to bring program costs in line with estimates of funds available. These were:

1) Defer purchases of shore-based laboratory equipment at TAMU (a subcommittee of PCOM established the ship and shore lab equipment list and designated shore equipment a second priority).

2) Maintain staff hiring rate at an absolute minimum level consistent with providing proper support to the program.

3) Spread the ordering of expendables to avoid a stockpiling cost peak.

4) Delay the start of logging on leg 1 (2 months delay).

5) Defer purchase of wireline packer and some redundant logging equipment.

It was agreed at the meeting (J. Honnorez, J. Clotworthy, P. Rabinowitz and R. Anderson) that action on any of the above items would await discussion at PCOM. J. Honnorez will report on what transpired at PCOM later in this meeting.

In response to questions concerning the shipboard chain of command, P. Rabinowitz noted that the chain of command is similar to that which existed for the Challenger and DSDP. Confusion during the previous EXCOM meeting resulted from semantics. A shipboard handbook defining job responsibilities and procedures is now being assembled. J. Honnorez noted that SEDCO is not used to dealing with co-chief scientists and some clarification may be needed.

WIRELINE SERVICES CONTRACTOR (LDGO) REPORT

B. Raleigh (LDGO) reported for R. Anderson (Director of Wireline Logging Operations):

The budget shortfall has resulted in problems for the wireline logging operator. An attempt to save \$200K was made by starting logging with Leg 102, but the idea was rejected by the Planning Committee. Although we agree with the PCOM that all legs should be logged, it is difficult to follow the PCOM recommendations within the constraints of the budget.

DEEP SEA DRILLING PROJECT REPORT

M. Peterson (DSDP) reported (copies of the DSDP Program Plan were distributed).

The Program Plan has been submitted to NSF. The plan assumes that management of the core repositories will be turned over to TAMU on 1 October 1984. At that time DSDP staff will consist of 42 personnel. The schedule for publication of the Initial Reports is given on p. 18 of the Program Plan. Volume 87 may be a problem because of the large number of contributions from Japan; a delay may result.

Publication of the index is on schedule. Volume 1 for IR Vols. 1-53 is under contract; Volume 2 (IR Vols. 54-96) could be delayed to save funds.

The schedule for the completion of the data base in FY 1986 is given on p. 22 of the Program Plan.

The relationship between JOIDES and DSDP is unclear as the JOI-JOIDES-DSDP link does not now exist. Potential problems, however, should not arise because DSDP has volunteered to "be guided by advice from JOIDES" as is stated in the DSDP Program Plan.

The budget as presented in the Program Plan does not provide for contingency funding.

MEMBER COUNTRY REPORTS

France

B. Biju-Duval reported that the MOU for candidate membership was signed two weeks ago in Washington, DC and in Paris. Negotiations for full membership are going on and it is hoped that France will sign soon as a full member. CNEXO and ISTPM (Fishery Institute) have joined together to form IFREMER (Institut Francais de Recherche pour l'Exploitation de la Mer) which will represent France in ODP. Two million French Francs have been made available for ocean geosciences and will affect ODP support science.

A recent France-U.S. workshop in Brest for joint work on ocean crust and hydrothermal processes also considered ways to link the research with the Ocean Drilling Program.

United Kingdom

J. Bowman reported. There is strong scientific support in the UK for joining the ODP as a full member. The financial situation, however, is not as clear. NERC serves both industry and government, and the UK administration feels that industry should contribute significantly to the financial support of ODP. Industry is interested in ODP but is seeking tax incentives for contributions to the program. At present the UK is willing to make available half the funds required for membership; the other half is now being sought. The UK fiscal year starts in April. Funds available for the coming fiscal year are usually known in November. We hope to know before November if the UK can join as a full member.

The Discovery will go to the Weddell Sea to do geophysical work but will not be equipped with GLORIA; it is believed that the risk of losing the system is too high when working in ice conditions.

The news item in Nature stating that the UK was likely to leave the ODP caused problems in the UK. The press review did not reflect reality.

Canada

M. Keen reported. Changes in the Canadian government will soon take place. There is roughly a 60% chance that Canada will join as a full member in about 1 month; if not, then hopefully by early fall.

The Hudson is scheduled to do a SEAMARK-I survey of the Kane Fracture Zone in

August and September of this year. Surveys of Baffin Bay may be required.

Discussion:

W. Merrell (TAMU) - A Canadian vessel plans to be in the Labrador Sea at about the same time of year as the ODP drillship. Any data on sea state conditions would be useful to the project.

European Science Foundation

B. Munsch reported for ESF. Approximately 40% of the full membership fee is now pledged by the present ESF consortium members. A recent meeting in Bergamo, Italy, was attended by the 5 members and Spain, Greece, Belgium and Finland. Of that group, Spain and Greece may decide soon. If they join, ESF would have 50% of the required membership fee. The real problem is to advance beyond the 50% level because most of the countries likely to join would already be members. A consortium with some other entity, therefore, seems to be the only way ESF can join as a full member.

Discussion:

A. Berman (RSMAS) - Is there sufficient scientific interest in ODP among the ESF countries? B. Munsch - The Bergamo meeting focused on that question. The answer is yes, there is enthusiastic support for ODP.

Federal Republic of Germany

H. Durbaum reported. FRG joined as a full member only after much discussion on the relative merits of ocean drilling vs. continental drilling. It was eventually decided that it would cost more to start up a continental drilling program. Preparation is now underway for the upcoming ODP legs. Data on the Norwegian Sea are being assembled. A proposal for drilling in NW Africa (Mesozoic) is being prepared. The German polar vessel will spend 45 days in the Weddell Sea.

Germany hopes that other countries will join soon as full members.

Japan

(The Japanese EXCOM member was not present.)

S. Toye (NSF) commented on Japanese membership in ODP.

The outlook is very good for eventual full membership. Japan's financial planning was

based on the Explorer schedule. A one-year earlier start date did not fit into the plan. Therefore Japan is not likely to enter as a full member until the 1986 U.S. fiscal year.

Discussion:

Based on the member country reports, the EXCOM considered the likelihood of ODP income from additional membership covering the estimated FY 1985 expenditures of \$33.6M (see NSF report). Even with 3 additional full members, a shortfall of several million dollars would result for FY 1985 (\$30.625M income vs. \$33.6M expenditures).

The EXCOM then discussed the need for contingency plans and the timing of such plans. Some members felt contingency plans should be made immediately. Most members felt that too many unknowns at the present time precluded realistic planning. A consensus eventually ensued favoring September as a time to make contingency plans. In September the following will be known:

- conversion costs of the drillship
- cost of long lead-time equipment
- personnel costs
- number of additional full members in ODP
- additional income from NSF recovery (up to \$2M).

EXCOM MOTION: On or about 1 September 1984 the Chairman of the Executive Committee, the Chairman of the Planning Committee, a representative of NSF, a representative of JOL, and a representative of the (then) full members shall meet to take whatever appropriate action is necessary to discuss the possible budget shortfall. The Chairman of the Executive Committee will call the meeting.

(The meeting will be called only if a significant budget shortfall occurs.)

J. Honnorez (PCOM Chairman) reported.

Short range planning - ship schedule

The Planning Committee has had two meetings since the last EXCOM meeting. A drilling schedule was adopted at the 21-23 March 1984 PCOM meeting in Washington, DC, which was held primarily to do short range and long range planning. The drilling schedule adopted at that meeting, however, was changed at the recent PCOM meeting in Paris (21-23 May 1984). The new schedule is shown below:

Initial ODP Drilling Schedule

Start date: 1 January 1985

Legs: 56 day cycle

- Leg 101 - Bahamas
- Leg 102 - ENA-3/417D, 418A, 395A
- Leg 103 - Galicia
- Leg 104 - Norwegian Sea
- Leg 105 - Baffin Bay/Labrador Sea
- Leg 106 - Mid Atlantic Ridge/Kane Fracture Zone
- Leg 107 - Tyrrhenian Sea
- Leg 108 - N.W. Africa (Cenozoic)
- Leg 109 - Barbados North
- Leg 110 - MARK-2
- Leg 111 - ?
- Leg 112 - ?
- Leg 113 - ?
- Leg 114 - Weddell Sea

The PCOM was well aware that a change in the drilling schedule (twice in a six week period) may cause problems for ODP-TAMU. The changes were made because most of the PCOM members felt that the earlier schedule was based on some misunderstanding:

1) PCOM had wrongly assumed that bare rock drilling would be available earlier in the program.

2) Working Groups reported directly to PCOM at the March meeting; later it was found that the parent panels had different drilling priorities.

3) At the May meeting, PCOM was informed that the downhole packer would not be available for the Barbados leg (Leg 102 of the earlier schedule).

Drilling Proposals - (J. Honnorez continued)

The JOIDES Office has about 70 drilling proposals on file and more are received each week. Many proposals are in response to the ODP "Announcement" published in various national and international journals. More input, however, is needed from non-U.S. scientists. PCOM also discussed publication of lists of proposals and was against the idea.

Discussion:

B. Lewis (UW) - The outside community must perceive that all proposals receive fair treatment. How is this done? J. Honnorez - The way in which proposals are handled is detailed in the "Guidelines for ODP Proposals" which appears in the JOIDES Journal. At least one, usually two, panels review each proposal.

B. Lewis (UW) - Are ODP "long range objectives" determined by the types of proposals received by JOIDES? J. Honnorez - No, long range objectives are determined by the community at COSOD-type meetings.

B. Munsch (ESF) - The ESF has established an internal system for receiving proposals from the "smaller" European countries. A summary of proposals will be circulated among the members.

(The EXCOM discussed the idea of publishing proposals, or proposal titles. Most members felt that some indication of the proposals received by JOIDES should be published, and the rejected proposals need not be identified.)

Consensus:

The Executive Committee recommends that the Planning Committee publish in the JOIDES Journal lists of proposals received by JOIDES. The lists are to be grouped by region and/or theme. Proposal status is to be that they have been referred to the appropriate regional or thematic panels and that interested scientists wishing to contribute input to these ideas can submit other proposals to the JOIDES Office or can contribute comments addressed to the appropriate panel chairman.

Budget Review (J. Honnorez continued)

The Planning committee felt that although it is not directly concerned with financial matters, the Committee needs to know the proposed ODP budget because of its impact on planning. This concern lead to a resolution:

"The Planning Committee requests that it receive each year a draft of the proposed ODP budget at a sufficient level of detail so that it may have full information for future scientific recommendations."

Discussion:

S. Toye (NSF) - The Foundation welcomes JOIDES input on budget decisions. The MOU's language reflects the desirability of JOIDES input as stated in Article 3 of the MOU.

D. Baker (JOI) - JOI has taken PCOM recommendations into account in making budget adjustments.

Consensus:

JOIDES input into budget decisions appears effective; the system appears to working well.

Site Survey Panel (J. Honnorez continued)

The Planning Committee considered EXCOM's recommendation and reviewed the role of the Site Survey Panel. The PCOM recommends that site survey coordination be done by a staff consisting of 1 to 3 persons located either at the JOIDES Office or at the IPOD data bank. Site Survey Working Groups composed of Site Survey Panel members and representatives of the appropriate panels and eventually proponents will be established for each leg that requires such a working group. This has already been done for the Southern Oceans and for the Indian Ocean.

A remaining problem is who will pay for site specific surveys after targets have been identified. An example is Baffin Bay: will surveys be paid for by the U.S. (JOI) or by international (JOIDES) funds?

Consensus:

Problems associated with site surveys are being solved by the Planning Committee and the EXCOM need not take action at this time.

Financial responsibility for site surveys becomes a problem only when sites are identified by the Planning Committee late in the program, e.g. Baffin Bay. The present system works well when long lead times are available for site surveys.

PCOM Chairman Rotation (J. Honnorez continued)

The Planning Committee Terms of Reference require a statement on the terms of office of the PCOM chairman.

Consensus:

The chair of the Planning Committee shall rotate with the JOIDES Office among the U.S. JOIDES institutions, excluding the Science Operator institution. The term of office is normally two years.

OTHER BUSINESS**JOIDES Publications
Acknowledgement/Disclaimer form**

J. Clotworthy (JOI) distributed forms for acknowledgement/disclaimer for publications.

DSDP/IPOD Commemoration

J. Baker suggested that DSDP/IPOD be honored with a special symposium to be held in conjunction with a major international geoscientific meeting.

Consensus:

The special DSDP/IPOD Symposium is to be held as part of the next Conference on Scientific Ocean Drilling (COSOD).

**Unauthorized Publications
of DSDP/IPOD Results**

C. Helsley (HIG) informed EXCOM members that some scientists at JOIDES institutions are including privileged data in publications. JOIDES guidelines are being violated.

The Executive Committee thanked A. Ber- man (RSMAS) for his service as chairman of the Committee during the past two years.

JOIDES OFFICE**NEW LOCATION**

Effective 1 October 1984 the JOIDES Office will move from the University of Miami to the University of Rhode Island. The mailing address is:

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University of Rhode Island
Narragansett, RI 02882-1197

Telephone: (401) 792-6165

OCEAN DRILLING PROGRAM

GUIDELINES FOR THE SUBMISSION OF PROPOSALS/IDEAS

A. General Information

JOIDES accepts input by individuals or groups into the Ocean Drilling Program as:

1. **Preliminary Proposals** (ideas/suggestions) for scientific ocean drilling. Examples are objectives (a specific process), drilling targets, downhole and other experiments, etc. Such input generally lacks either geographic specificity, site survey data, or both.

2. **Mature Drilling proposals** (minimum requirements are detailed in section C.)

Preliminary and mature proposals will be reviewed and prioritized by one or more JOIDES advisory panels. **Only mature proposals are ultimately considered and prioritized by the Planning Committee**, which plans the actual drilling. Thus ideas which become part of the drilling program do so either by evolving into a mature proposal, or by incorporation into an existing proposal with multiple objectives. **Proposals are considered mature when accompanied by a specific set of minimum data listed in section C** and provided by the proponents or JOIDES (certain technical data may not be readily available to proponents). It follows that the time required for an idea or proposal to be processed by the JOIDES science advisory structure and become part of the drilling plan will depend in large part on the completeness of the required data at the time of submission. Proponents are therefore urged to submit as complete a package as possible. Lead time requirements are given in section D. **Preliminary proposals** should be sent in triplicate to the JOIDES Office. **Five copies of mature proposals** should be submitted to the JOIDES Office.

B. Review Process

Ideas/suggestions or proposals are submitted to the JOIDES Office which forwards the material to the appropriate advisory panel(s) for review. The JOIDES panels review and prioritize the ideas/proposals and advise the Planning Committee of their recommendations. The panels may request additional information from the proponents and may suggest that the idea/proposal be modified to enhance its scientific merit. Some ideas/proposals of

limited scope may be incorporated by the advisory panels into a proposal of broader scope.

Thematic Panels are primarily concerned with the process aspects of the science. Regional Panels and Working Groups review the proposal within the context of a particular geographic region (e.g. additional "sites of opportunity" may be recommended for drilling, to maximize the scientific payoff of drilling in that particular region). As the proposal matures and proceeds through the advisory system, service panels make recommendations regarding technical aspects of the proposed drilling (e.g. site survey review, safety review, engineering and technology review, downhole measurements review, etc.).

The Planning Committee monitors and directs the proposal review process, reviews the recommendations of the advisory panels, decides the fate of proposals, and ultimately integrates the approved proposals into a detailed drilling plan and ship track.

C. Minimum Requirements

I. Minimum Requirements for Mature Proposals (5 copies):

The following items should be discussed in the proposal; submit a Site Proposal Summary Form for each proposed site.

- a) Specific scientific objectives with priorities.
- b) Proposed site locations and alternative sites.
- c) Background information, including regional and local geological setting and identification of existing geophysical/geological data base.
- d) Drilling requirements for each objective (e.g. estimated drilling time, steaming time, water depth, drill string length, re-entry, etc.)
- e) Logging, downhole experiments and other supplementary programs (estimated time, specialized tools and requirements, etc.)
- f) Known deficiencies in data required for:
 - 1) location of drill sites
 - 2) interpretation and extrapolation of drilling results.

g) Statement of potential safety problems in implementing proposed drilling.

h) Other potential problems (weather window, territorial jurisdiction, etc.).

i) The name of an individual assigned as a proponent for each site who will serve as a contact for JOIDES when additional information is required.

2. Submission of Preliminary Proposals (Ideas/Suggestions) - 3 copies.

Preliminary proposals (ideas and suggestions) for ocean drilling may be submitted to the JOIDES Office in triplicate letter form, preferably with as much background information as possible.

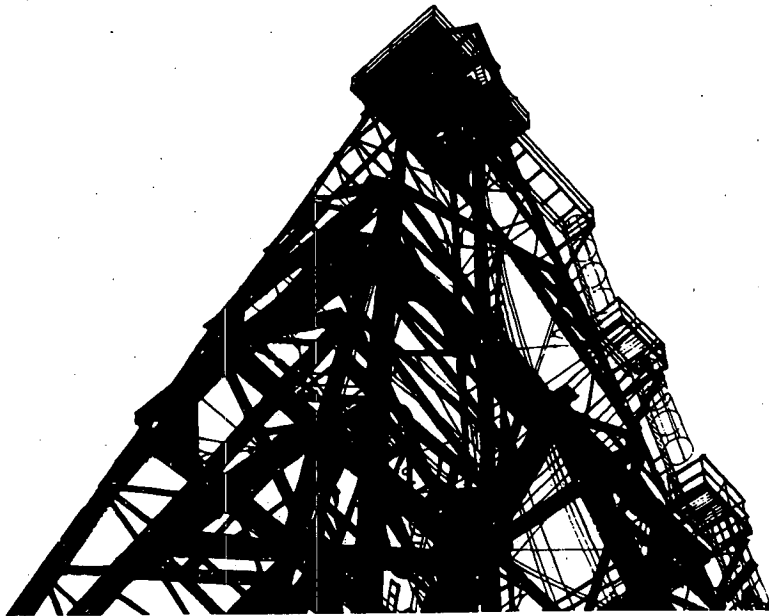
3. Letters of intent to submit may be sent to the JOIDES Office.

D. Lead Time

As a general rule a minimum 18-24 months lead time is required from the time of proposal submission to actual drilling. Less lead time may be acceptable in cases where site surveys are not required.

E. All submissions should be sent (with the appropriate number of copies) to the JOIDES Office:

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University of Rhode Island
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*****ODP SITE PROPOSAL SUMMARY FORM*****
 (Submit 5 copies of mature proposals, 3 copies of preliminary proposals)

Proposed Site:

General Objective:

**General Area:
 Position:
 Alternate Site:**

**Thematic Panel interest:
 Regional Panel interest:**

Specific Objectives:

Background Information:

Regional Data:

Seismic profiles:

Other data:

Site Survey Data - Conducted by:

Date:

Main results:

Operational Considerations

Water Depth: (m)

Sed. Thickness: (m)

Total penetration: (m)

HPC _____ Double HPC _____ Rotary Drill _____ Single Bit _____ Reentry _____

Nature of sediments/rock anticipated:

Weather conditions/window:

Territorial jurisdiction:

Other:

Special requirements (Staffing, instrumentation, etc.)

Proponent:

Date submitted to JOIDES Office:

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(Please advise the JOIDES Office of corrections to the Directory Sections. Thank you.)

EUROPEAN SCIENCE FOUNDATION

Request for Ocean Drilling Proposals

The European Science Foundation (ESF) is accepting drilling proposals/ideas from all European countries which are not members of JOIDES, irrespective of whether they are member countries of the ESF Consortium. While JOIDES member countries (France, Federal Republic of Germany, and the United Kingdom) have separate internal procedures for coordinating drilling proposals, ESF will endorse and submit to JOIDES proposals and ideas emanating from all other European countries, thus lending these proposals more weight than if submitted on an individual basis. Contact the ESF Secretariat for forms and additional information.

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I've seen pictures showin' men
 Wearin' funny suits an' fins
 Just a-swimmin' round in water blue as ink.
 Now they tell me that's th' sea
 But they ain't a-foolin' me
 'Cause I've been there, an' it ain't like what you think.

If you stand on deck at nite
 An' look down, you'll see a sight
 'at will curl yer hair an' make yer blood run cold.
 You can see 'em 'neath th' ship
 Just a-hopin' you might slip
 An' put a foot where they can grab ahold.

Oh, those creature uv th' deep
 Make your skin begin t' creep
 With their slimy, stinkin', cold an' greenish scales,
 An' if you stand there quiet
 In th' middle of th' night
 You can often hear their ghastly groan's 'n wails.

They have eyes that seem t' glow
 As they watch you from below
 With their sharp white teeth a-clickin' in th' dark
 With one huge an' scaly hand
 They can snatch up any man
 An' stuff 'im down their throat without a mark.

So, now you mark me word
 An' don't say you ain't heard
 O' th'many sailors vanished 'thout a trace,
 But you listen well t' me
 An' if you have t' go t' sea
 Be sure an' find yerself a good safe place.

'Cause a leanin' on th' rail
 Whilst you watch th' sunset pale
 An' you think about yer friends back at th' pub,
 An' a-hangin' out like this ----
 When you need to take a piss
 Can get you in some trouble ---- HELP! G

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(Contributed by LEG)

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