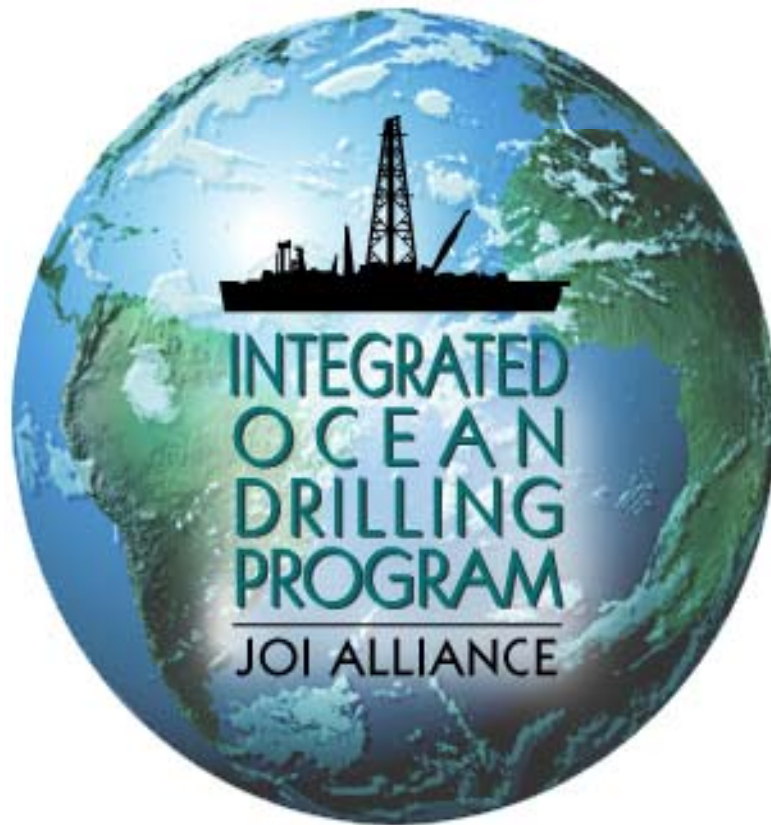


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INTRODUCTION

The organization of this quarterly report reflects activities and deliverables that are outlined in the Integrated Ocean Drilling Program U.S. Implementing Organization (IODP-USIO) Program Plan as implemented by the JOI Alliance during the first quarter of FY05.

PHASE 1 EXPEDITION OPERATIONS

IODP-USIO EXPEDITION SCHEDULE

The following IODP-USIO operational schedule was originally issued on 7 May 2004 and was updated in October 2004 to reflect slight modifications due to weather and port call requirements resulting from Expedition 301T.

* Cruise*	Port (Origin)	Dates ^{1,2}	Total Days (Port/Sea)	Days at Sea (Transit ³ /Ops ⁴)	Co-Chief Scientists	Alliance Contacts
Transit	Gamagori, Japan	1 ⁴ –20 June 2004	19 (2/17)	17/0	N/A	N/A
Mobilization	Astoria	20–27 June	7 (7/0)	(0/0)	N/A	N/A
1 Juan de Fuca Hydrogeology	Astoria	27 June–21 August	55 (1/54)	2/52	Andrew Fisher Tetsuro Urabe	TAMU: A. Klaus LDEO: G. Iturrino
Costa Rica Hydrogeology/ Transit	Astoria	21 August–25 September	32 (1/31)	28/3	TBN	TAMU: M. Malone
2 North Atlantic Climate 1	St. John's, Newfoundland	25 September–17 November	53 (5/48)	5/43	James Channell Tokiyuki Sato	TAMU: M. Malone LDEO: S. Robinson
3 Oceanic Core Complex 1	Ponta Delgada	17 November 2004–8 January 2005	52 (5/47)	7/40	Chris MacLeod Barbara John	TAMU: D.J. Miller LDEO: F. Einaudi
4 Oceanic Core Complex 2	Ponta Delgada	8 January–2 March	53 (5/48)	7/41	Donna Blackman Yasuhiko Ohara	TAMU: D.J. Miller LDEO: H. Delius
5 North Atlantic Climate 2	Ponta Delgada	2 March–25 April	54 (5/49)	4/45	Rudiger Stein Toshiya Kanamatsu	TAMU: M. Malone LDEO: S. Higgins
Transit	Reykjavik	25 April–13 May	18 (3/15)	15/0	N/A	N/A
Demobilization	Galveston	13 May–4 June	22 (22/0)	0/0	N/A	N/A

Notes:

Acceptance of the vessel will take place on 31 May 2004.

* Expedition nomenclature will be adjusted in the future to reflect naming protocols to be established by IODP-MI.

1 Ship is scheduled to arrive 0600 hr on first day of port call.

2 Initial cruise date reflects first day of port call; ship sails when ready.

3 Transit = estimated time to/from port to the operating area.

4 Ops = operations (includes both on-site and between-site times).

EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES

IODP-USIO EXPEDITION 301: JUAN DE FUCA HYDROGEOLOGY

Postexpedition Activities: A project review document for Expedition 301 was prepared by the Expedition Project Team. The review included input from the departments involved in cruise-related operations, logging, logistics, data processing, and data handling/distribution. The report noted both the successes and failure of the expedition and suggested improvements for the future. On the basis of the Project Team review, a postcruise assessment of Expedition 301 was

completed by the JOI Alliance Operations Team, and the results were presented to the Review Committee (REVCOM) on 9 and 10 December 2004. The draft report of the REVCOM review is generally positive but contains many suggestions for improvements in future complex expeditions similar in scope and operations to Expedition 301. A final report is expected next quarter.

IODP-USIO EXPEDITIONS 303 AND 306: NORTH ATLANTIC CLIMATE 1 AND NORTH ATLANTIC CLIMATE 2

Expedition Planning: Expedition 303 and 306 are planned as a single project to be accomplished over the course of two expeditions. For this reason, with the completion of Expedition 303, discussions have commenced between the Co-Chief Scientists of Expeditions 303 and 306 and the Staff Scientists and Logging Staff Scientists regarding the Expedition 306 operational plan. The revised operational plan will be published early next quarter as an addendum to the Expeditions 303 and 306 Scientific Prospectus.

Expedition Implementation: Expedition 303, which began 25 September 2004, ended in Ponta Delgada, Azores, on 17 November 2004. A total of seven sites were occupied. These sites were each multiple-cored, resulting in total core recovery of 4.6 km. Very little time was lost to bad weather, which underscores the value of sailing an experienced weather forecaster on high-latitude expeditions.

The primary objective of Expedition 303 was to place late Neogene–Quaternary climate proxies in the North Atlantic into a paleointensity-assisted chronology (PAC), a chronology based on a combination of geomagnetic paleointensity, stable isotope, and detrital layer stratigraphies. The primary logging objective of Expedition 303 was to provide detailed core-log integration to allow assessment of core expansion and to provide a quality control check of the spliced record. Given the high sedimentation rates at most of the Expedition 303 sites, a secondary objective was to examine cyclicity within the log data. It was hoped that millennial scale changes would be identifiable in Formation MircoScanner (FMS) data. However, because of operational difficulties and deteriorating weather conditions it was only possible to deploy the triple combination (triple combo) tool string at one site (U1305). Unfortunately, this meant that the highest-resolution tools (the Lamont Multi-Sensor Spectral Gamma Ray Tool [MGT] and the FMS-sonic tool string) were not deployed during Expedition 303.

All the downhole data sets display meter- to decimeter-scale variability that are most likely the result of subtle changes in lithology. A comparison of log- and core-derived natural gamma radiation and density records shows close agreement in downhole trends and patterns. Measured density values are very similar in both core and log data. Closer inspection of the gamma ray data suggests that 5 m scale patterns can be recognized in both the core and log records. Using the downhole log records as a depth reference, and the software program Sagan, it was possible to correlate the core measurements to equivalent logging depths to more precisely determine the amount of core expansion. Using this method of core-log integration, it will be possible to compare various physical properties measured in core and downhole, allowing more complete integration than possible with downhole (such as spectral gamma and resistivity) or core (such as color) data alone.

Expedition Staffing: Expedition 303: Expedition Project Manager/Staff Scientist: M. Malone; Co-Chief Scientists: J. Channell, T. Sato; Logging Staff Scientist: S. Robinson. Scientific

staffing for the expedition included the following IODP membership breakdown: eight participants each from the U.S. Science Support Program (USSSP), Japan Drilling Earth Science Consortium (J-DESC), and European Consortium for Ocean Research Drilling (ECORD), and one participant from China. The size of the science party for this project is larger than normal, and the composition of the party is characterized by redundancy in some fields of expertise. Both outcomes are a consequence of the contractual requirements that govern staffing. A weather observer from the Danish Meteorological Institute participated in the expedition to assist in forecasting and advise on approaching inclement weather conditions.

Expedition 306: Expedition Project Manager/Staff Scientist: C.A. Zarikian; Co-Chief Scientists: R. Stein, T. Kanamatsu; Logging Staff Scientist: S. Higgins. Staffing for Expedition 306 commenced in August 2004 and continued through the end of the quarter.

Clearance and Permitting Activities: As of the end of the quarter, a response to the clearance request to Norway for Expedition 306 activities was pending.

Technology: Expedition 303 operations consisted entirely of routine advanced piston corer (APC) coring. Expedition 306 (in FY05) will consist largely of APC coring with a Circulation Obviation Retrofit Kit (CORK) installation at the final site.

The Expedition 306 CORK design is complete, and all hardware is on order. Plans called for the CORK wellhead and reentry cone base structure to be shipped surface freight in January 2004, and the thermistor string and data logger hardware to be shipped airfreight in February 2004.

IODP-USIO EXPEDITIONS 304 AND 305: OCEANIC CORE COMPLEX 1 AND OCEANIC CORE COMPLEX 2

Expedition Implementation: The *JOIDES Resolution* sailed from Ponta Delgada on Expedition 304 on 20 November 2004. The principal objective of Expedition 304 was to determine the conditions under which oceanic core complexes develop. Site U1309 is located on the central dome of Atlantis Massif, 15 km west of the median valley axis of the Mid-Atlantic Ridge, where the seafloor coincides with a gently sloping, corrugated detachment fault surface. Drilling at Site U1309 sampled gabbros of the footwall of the fault system with moderate to good recovery. Two drill holes at this site (U1309B and U1309D) penetrate a multiply-intruded and faulted crustal section. Attempts to drill the hanging wall of the fault (Sites U1310 and U1311) produced only basalt fragments and very short cores. In general, drilling conditions at the hanging wall sites were very difficult, with poor penetration and little recovery. Late in December 2004 the decision was made to devote the remainder of Expedition 304 to deepening the footwall site to achieve maximum penetration.

Three tool strings (triple combo, FMS-sonic, and General Purpose Inclinerometer Tool/Scintillation Gamma Ray Tool [GPIT/SGT]) were deployed in Hole U1309B. During the second pass, when the bottom of the FMS began coming into the pipe, some overpull was recorded. The tool string was brought to the surface to check for damage. It appeared that the outer cover of the caliper that serves as a housing for the pad wiring was broken and the arm expansion springs were fully extended.

The excellent hole conditions resulted in particularly good measurements with density, neutron porosity, and FMS tools. FMS images show many highly conductive zones that are interpreted to

represent intensely fractured intervals. These intervals are characterized by generally high electrical conductivity measured by the Dual Laterolog (DLL), high neutron porosity, and low-density logging data. At 58 mbsf, there is a change from a resistive to more conductive formation that can be correlated to the transition from gabbro to peridotite. The resistive zones are intersected by a number of thin conductive features whose dip and azimuth can be determined. Preliminary structural analyses of features show features dipping mostly southeast. These orientations are consistent with orientations of a majority of veins measured on the core face and rotated into a geographical reference frame using paleomagnetic data.

A first attempt to log Hole U1309D with the triple combo tool string was made on 31 December 2004. The drill pipe was set inside the casing. We could not get down past an obstruction at 39 mbsf. A second run was attempted using a short tool string (DLL and Hostile Environment Gamma Ray Sonde [HNGS]), but the tool string could not pass the same obstruction.

Discussions with the Co-Chief Scientists regarding the logging plan for Expedition 305 continued.

Expedition Staffing: Expedition 304: Expedition Project Manager/Staff Scientist: D.J. Miller; Co-Chief Scientists: D. Blackman, B. John; Logging Staff Scientist: F. Einaudi. Scientific staffing for the expedition included seven USSSP participants, five J-DESC participants, and eight ECORD participants. C. MacLeod, scheduled to sail as one of the Co-Chief Scientists, was forced to withdraw at the last minute for medical reasons. Fortunately, D. Blackman, who was already scheduled to sail as a member of the science party and is a proponent of the Expeditions 304/305 program, was able to step up to the Co-Chief Scientist position.

Expedition 305: Expedition Project Manager/Staff Scientist: D.J. Miller; Co-Chief Scientists: B. Ildefonse, Y. Ohara; Logging Staff Scientist: H. Delius. Scientific staffing for the expedition included nine USSPP participants, seven J-DESC participants, and seven ECORD participants. D. Blackman, scheduled to sail as Co-Chief Scientist, stepped down to sail as a member of the science party since she sailed as Co-Chief Scientist on Expedition 304. B. Ildefonse, who had been scheduled to sail as a member of the science party, agreed to sail as a Co-Chief Scientist.

Technology: Advanced Diamond Core Barrel (ADCB) parts were shipped to the Azores for Expedition 304, but the ADCB was not deployed because the Active Heave Compensator (AHC) was inoperable as a result of hose failure. Expedition 304 utilized the Hard Rock Reentry System (HRRS) and hammer drill with limited success. The first hammer drill deployment was configured with an 11¾ in pass-through, spline-drive ring bit and an 11¾ in pilot bit. The running tool released the casing prematurely and left 26 m of casing protruding from the seafloor. The same configuration was run again and reached the planned depth of 20.5 m. However, when the camera was deployed it was observed that the running tool had released the casing prematurely, coincidentally at the planned depth. To work around the premature release, the running tool was modified to use shear pins for the release. The third deployment was configured with a 12¼ in pass-through, nonagon (nine-sided) ring bit and a 12¼ in pilot bit. The bit advanced 4 to 5 m when the locking arms on the drive bit released, causing the pilot bit to retract up into the ring bit, ceasing drilling. For the fourth deployment, the ring bit was cut off, and a short piece of casing and Texas pattern shoe was welded in its place. The drive bit was replaced with a W-profile underreamer. This configuration advanced 6 to 7 m and ceased penetration. After offsetting 10 m, it spudded again with the same result. For the fifth

deployment the W-profile underreamer was replaced with a dual-cam underreamer. It reentered the previous hole and advance to the planned 12 to 13 m, but the casing wouldn't release because the underreamer had wedged in the casing. After 10 hr of working the pipe, the hammer and casing were recovered. Both were bent in the process. The sixth and last deployment used the W-profile underreamer in an attempt to drill into rubble. It performed no better than the rotary core barrel (RCB), and rubble continued to fall back into the hole.

POST-IODP-USIO EXPEDITION 306 ACTIVITIES

During the reporting period, significant effort was devoted to costing various scenarios for a possible extension of IODP-USIO Phase 1 activities. Final recommendations for a schedule were received from the Science Planning Committee (SPC) in early December 2004. Cost estimates for these additional expeditions are being refined for incorporation into a FY05 Program Plan Addendum.

INSURANCE RELATED TO JOI SUBCONTRACTS

Projected insurance costs for downhole tools are increasing due to the reluctance of underwriters to carry downhole equipment. Thus, negotiations are ongoing for securing reasonable premium rates for upcoming logging-while-drilling/measurement-while-drilling operations.

ENVIRONMENTAL ASSESSMENT

GULF OF MEXICO HAZARD ASSESSMENT

The proposal to drill several sites in overpressured sediments in the Gulf of Mexico raises concerns regarding possible hazardous conditions. For this reason, an outside consultant was engaged to assess the available seismic data and provide an assessment of the potential hazards. A preliminary report was presented to the Environmental Protection and Safety Panel (EPSP) at its meeting in early December 2004 and confirmed that the drilling involves the risk of shallow water flows and/or possible gas flows. A final report is due at the beginning of next quarter. Studies are ongoing to determine the magnitude of the risk and identify possibly mitigation measures.

TECHNOLOGY DEVELOPMENT

PROJECTS AND OTHER ACTIVITIES

IODP-USIO SCIENCE SERVICES, TAMU, ENGINEERING SERVICES

Advanced Piston Corer Methane (APCM) Tool: The APCM tool is a collaborative effort with Monterey Bay Area Research Institute (MBARI) to develop a tool that determines in situ gas concentrations. New microprocessors were received this quarter for use in the electronics upgrade. The tool, which was fabricated during the Ocean Drilling Program (ODP), will be run during Expedition 306 to collect data for tool characterization.

APCT Tool: Testing of the APCT2 prototype electronics is near completion. The electronics will be repackaged for shock and vibration resistance. The new system, which upgrades an ODP tool, will be tested in the Simulated Borehole Test Facility (SBTF). The APCT3 project is a collaborative effort with third-party principal investigators to provide a next-generation APCT tool. All APCT3 shoe and core catcher hardware drawings have been checked. The principal investigator has ordered prototype parts. Sea trials of this tool will be attempted in late FY05.

Dead Weight Tester: The dead weight tester was delivered in October 2004. The tester is laboratory equipment that will be used to calibrated pressure transducers used in downhole tools and laboratory test instrumentation.

Drilling Sensor Sub (DSS): Two DSS tools had sensor failures during acceptance testing conducted the week of 27 September 2004. The vendor repaired the tools in early December 2004. A repeat of the acceptance test will be scheduled with Schlumberger. The tools will be accepted after successful completion of both tests. Following successful completion of acceptance testing, one DSS will be used in the acceptance testing of the Core Barrel–Retrievable Memory Module (CB-RMM) in the Schlumberger test well.

Instrumented Water Sampler (IWS): Mechanical improvements of the IWS are on hold until funding becomes available in FY05.

Simulated Borehole Test Facility (SBTF): All major parts of the SBTF have been received. Other priorities have put this project on hold.

Weight-on-Bit Filter (WOBF): The new, off-the-shelf electronic modules for the WOBF system have been received. Programming is in process.

IODP-USIO SCIENCE SERVICES, TAMU, ANALYTICAL SERVICES

Staff Development: IODP-USIO Science Services, TAMU, Analytical Services career ladder and position description revisions and updates for all Analytical Services positions were accepted by the Texas A&M University (TAMU) Human Resources Department.

Shipboard Support: Three Laboratory Specialists and one Application Developer sailed to support analytical services and data management on Expedition 303. Two shore-based Applications Developers provided remote support for immediate shipboard problems, including those related to the deployment of the new magnetic susceptibility core logger (MSCL), during that expedition (20% and 50% of their time, respectively). Two Laboratory Specialists and one Application Developer supported analytical services and data management during Expedition 304.

USIO Planning and Integration Activities: IODP-USIO Science Services, TAMU, Analytical Services prepared an integrated list of current and future USIO laboratory activities (major maintenance and repair; enhancements and upgrades) in collaboration with the other JOI Alliance members. This list will be used in planning FY06 activities and the science requirements for U.S. scientific ocean drilling vessel (SODV) activities.

Laboratory Information Management System (LIMS): Development of the laboratory systems and document inventory database continued. Laboratory documentation control capabilities were added. Initial user interface applications are close to completion.

Digital Microimage Application: A prototype of a new shipboard application for managing metadata capture and storage of images taken from thin sections was deployed on Expedition 304)

IODP-USIO SCIENCE SERVICES, LDEO, ENGINEERING AND TECHNICAL SERVICES

Wireline Heave Compensator: Tuning of the rotary wireline heave compensator continued on Expeditions 303 and 304. Engineering time was utilized during both expeditions to compare the old and new heave compensators with a maximum amount of downhole instrumentation. Schlumberger is investigating an observed phase lag between observed heave and compensation response and is working on a software patch to correct the lag. In the meantime, the older heave compensation unit continues to be used and maintained. Continued tuning will occur during Expeditions 305 and 306.

REPORTS/PUBLICATIONS

IODP-USIO PROGRAM PLAN FOR IODP-MI AND NSF

A draft IODP-USIO FY05 Program Plan Addendum was developed, based on the draft USIO operations schedule for the remainder of FY05, which was agreed upon through discussions with SPC and the IODP Operations Committee (OPCOM) in October 2004. The Addendum was submitted to IODP Management International, Inc. (IODP-MI), in November for discussion and approval by the Science Planning and Policy Oversight Committee (SPPOC) at the December 2004 meeting. At the SPPOC meeting, a number of questions were raised regarding the impact of the draft plan on FY06 options for the riserless vessel, and revisions to the FY05 Addendum were requested to accommodate additional IODP science priorities. Based on the implementation of these proposed changes, the IODP-USIO FY05 Program Plan Addendum was approved by SPPOC and the USIO began to revise those sections of the document that were required for final submission to IODP-MI and to the National Science Foundation (NSF) in January 2005.

USIO-IODP FY04 IODP QUARTERLY REPORT

The report for the fourth quarter of FY04 (July–September) was submitted to NSF on 15 November 2004.

IODP SCIENTIFIC PUBLICATIONS

PRELIMINARY REPORT

Expedition 301 (Juan de Fuca Hydrogeology): Published on 2 November 2004 (see “Appendix H”).

Expedition 301T (Costa Rica Hydrogeology): Published on 29 November 2004 (see “Appendix H”).

Expedition 303 (North Atlantic Climate 1): Written, produced, and reviewed in November–December 2004. Final review by the scientific party and publication is expected in January 2005.

IODP LEGACY REPORTS

Work continued on developing IODP legacy document lists. Development has begun for a relational database structure for capturing IODP legacy documents.

EDUCATION/OUTREACH

EDUCATION

L. Peart (Joint Oceanographic Institution, Inc. [JOI], Education Coordinator) has produced two precollege activities, “A Reader’s Guide to ODP Climate Change Highlights,” for use with high-level secondary classes and “Measure for Measure,” a combination premium (workshop and conference giveaway) and curricular piece introducing ocean drilling to middle school audiences through scale measurements and calculations.

MUSEUM DEVELOPMENT

L. Peart (JOI Education Coordinator), K. White (JOI Public Affairs Director), and S. Boa (JOI Senior Program Associate, USSSP) attended a planning meeting for the Smithsonian Institution’s new Oceans Hall that also included N. Light (IODP-MI Director of Communications). Follow-up plans for further USIO involvement were made.

TEACHER AT SEA INITIATIVE

A poster about the Teacher at Sea initiative was presented at the annual American Geophysical Union (AGU) Fall Meeting (see “Meetings and Conferences” for details).

LABORATORY BRIEFS

Microbiology and chemistry laboratory briefs were completed and reviewed this quarter. Content was finalized for the paleomagnetism and physical properties laboratory briefs, and layout and design efforts began. Completed laboratory briefs will be published in PDF and HTML on the USIO Web site.

HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP PROGRAM

The Historically Black Colleges and Universities (HBCU) Fellowship fact sheets (including applications) were disseminated broadly on the campuses of Howard University, the University of the District of Columbia, and Prairie View A&M University. Targeted offices included the offices of the President and Provost of each institution, the Deans of appropriate schools, and the departments of education, curriculum and instruction, communications, and journalism, and natural and physical sciences. Follow-up communication with contacts continued through the quarter and will be ongoing through the 11 February 2005 application deadline.

A poster covering the HBCU program was presented at the annual AGU Fall Meeting (see “Meetings and Conferences” for details).

IODP-USIO WEB SITE

The Web site is undergoing steady growth. The USIO Webmasters have formed a working group to coordinate USIO Web activities and to interface with staff from IODP-MI and other implementing organizations.

IODP DATABASES

Log Data: Expedition 303 and 304 log data and documentation have been added to the on-line log database.

Processed Logs: Conventional and FMS data were processed and put online (with accompanying documentation) for Hole U1305C (Expedition 303) and Hole U1309B (Expedition 304).

PUBLIC AFFAIRS

CONGRESSIONAL OUTREACH

B. Kjerfve (Dean of the College of Geosciences and Professor of Oceanography at TAMU), M. Purdy (Director of Lamont-Doherty Earth Observatory of Columbia University), and S. Bohlen (President of JOI) met with the New York and Texas congressional delegations and staff members from the Appropriations Committee and the Office of Management and Budget to discuss scientific endeavors possible with an advanced drillship.

PUBLIC RELATIONS MATERIALS

News releases were distributed to more than 100 science journalists worldwide, as well as member country offices. News releases distributed during the quarter include

- Activities of Subseafloor Life More Diverse than Expected (*Science* paper about ODP Leg 201).
- IODP Obtains Critical New Data on North Atlantic Climate Change (Expedition 303).
- New Ocean Drilling Research Findings, Opportunities Presented at AGU Fall Meeting.
- Scientists to Unveil Results from Final Ocean Drilling Program Expeditions.

News articles and programs on IODP riserless drilling published during this quarter include

- Dickens, G., “Methane Hydrate and Abrupt Climate Change,” *Geotimes*, November 2004.
- “Ocean Research Team Returns from Seafloor Observatories,” *Sea Technology*, October 2004, 9.
- Teagle, D.A.H., et al., “The Road to the MoHole Four Decades On: Deep Drilling at Site 1256,” *Eos*, Vol. 85, No. 49, 7 December 2004, 521–524.

MEETINGS AND CONFERENCES

The JOI Alliance was represented at two science education conferences during this quarter. L. Peart (JOI Education Coordinator) managed a booth at the 2004 Conference for the Advancement of Science Teaching on 4–6 November 2004 in Corpus Christi, Texas. Her efforts resulted in over 900 individual teacher contacts and renewed contacts with the Sea Grant Marine Advisory Service, science teacher education officers at the University of Texas at Dallas and Texas A&M–Corpus Christi, the Charles A. Dana Center at the University of Texas at Austin, the Texas Education Agency, and a variety of school district and Education Service Center representatives.

JOI Interns A. Baker and J. Van Tongeren represented the JOI Alliance at the Eastern Regional National Science Teacher’s Association Conference on 1–3 December 2004 in Richmond, Virginia. Both Baker and Van Tongeren established valuable contacts, including *Science Scope* magazine and McGraw Hill publishers.

The JOI Alliance had a booth 7–10 November 2004 at the annual Geological Society of America Fall Meeting in Denver, Colorado. The booth materials focused on upcoming expeditions,

obtaining scientists input on the needs for a new riserless SODV for IODP-USIO Phase 2 operations, and using a prototype Corewall system for visualization of cores and related data as an outreach and research tool. A news release highlighting several key papers presented at the meeting was distributed electronically to media representatives worldwide and at the meeting.

The JOI Alliance conducted a range of outreach 13–17 December 2004 at the annual AGU Fall Meeting in San Francisco, California. JOI Alliance staff members spoke with members of the media, answering questions about riserless drilling expeditions and expanding the news release distribution list. In addition to a news release highlighting key discoveries presented at the meeting, staff members prepared binders for research purposes that contained all 200 ocean drilling–related abstracts to show the range of science conducted. Additional outreach efforts were conducted to scientists, journalists, students, and educators at the JOI exhibit booth. IODP-USIO staff members presented talks including

- “Secondary Teachers and Students—Why You Need Them, Where to Find Them and How to Make Them Your Number One Audience,” a poster authored and presented by L. Peart (JOI Education Coordinator).
- “Experiences and Results from the Integrated Ocean Drilling Program (IODP) Teacher at Sea Program, Expedition 301,” a poster authored by J. Rice (Expedition 301 Teacher at Sea), G. Iturrino (Logging Staff Scientist, IODP-USIO Science Services, LDEO), and A. Klaus (Deputy Director of Data Services at IODP-USIO Science Services, TAMU). J. Rice presented the poster.
- “Out to Sea: Life as a Crew Member Aboard a Geologic Research Ship,” a poster authored by K. Tauxe (former ODP technician, science teacher, and producer of new “Out to Sea” video targeting middle school audiences) and F. Rack (JOI Director of Ocean Drilling Programs).
- IODP-USIO Developing a New Fellowship for HBCU Students,” a poster authored by A. Castner (Executive Program Associate at JOI), K. White (JOI Director of Public Affairs), (A. Klaus (Deputy Director of Data Services at IODP-USIO Science Services, TAMU), and G. Iturrino (Supervisor of Science Services at IODP-USIO Science Services, LDEO). K. White presented the poster.

IODP-USIO SUPPORT ACTIVITIES

INTERACTIONS WITH IODP-MI AND IODP IMPLEMENTING ORGANIZATIONS IODP-MI AND IODP IMPLEMENTING ORGANIZATIONS MEETING AND DATA MANAGEMENT SUBGROUP MEETING

IODP implementing organizations (IOs) conducted a half-day meeting on 28 October 2004 in Corvallis, Oregon, to continue discussions from the Tokyo, Japan, IO meeting in June 2004. The IOs expanded on discussions about staff exchanges, HSE (health, safety, and environment) issues, publications, data management, engineering development, and other issues in preparation for the IODP-MI meeting with the IOs that followed in the afternoon of 28 through 30 October 2004. The meetings with IODP-MI focused primarily on publications, database, and data management issues to provide the opportunity to present the current state of these capabilities for each IO and discuss a framework for future integration activities. It was determined that some of the first steps should be to “publish” the data models for each database (Janus, J-CORES,

International Continental Scientific Drilling Program [ICDP] Drilling Information System [DIS]) and continue technical discussions.

U.S. IMPLEMENTING ORGANIZATION IODP SUPPORT ACTIVITIES

IODP-MI Data Management Site Visit: IODP-USIO Science Services, TAMU, began preparation of presentations addressing data management topics for the 5–7 January 2005 visit of the new IODP-MI staff members B. Miville (Data Management Specialist) and M. Soeding (Publication, Sample and Data Integration Manager).

IODP-MI Booth at AGU: JOI Alliance personnel provided staffing assistance for the IODP-MI booth at the annual AGU Fall Meeting in San Francisco.

IODP-MI PUBLICATIONS TASK FORCE MEETING

The IODP-MI Publications Task Force (PTF), which was created to act in an advisory capacity to IODP-MI and report directly to IODP-MI, had its first meeting 3 and 4 November 2004 in Washington, D.C. From IODP-USIO Science Services, TAMU, A. Klaus (Deputy Director of Data Services) and K. Petronotis (Web Administrator) participated as members of the PTF, and A. Miller (Interim Manager of Publication Services) attended as an observer. The mandate of the PTF is to recommend to the IODP-MI the most efficient (in terms of impact and economics) implementation policy of IODP publications.

IODP-MI EXPEDITION 301 REVCOM MEETING

The IODP-MI Expedition 301 REVCOM met 9 and 10 December 2004 at IODP-MI headquarters in Washington, D.C., to review the operational aspects of Expedition 301, Juan de Fuca Hydrogeology. The review concentrated on “lessons learned” from the expedition with an emphasis on “what should be done differently in the future.” The committee review was based upon confidential reports submitted by the USIO and A. Fisher (Expedition 301 Co-Chief Scientist). Oral presentations summarizing these confidential reports were provided to the committee by A. Klaus (Expedition 301 Project Manager and Staff Scientist, on behalf of the USIO) and A. Fisher. The committee identified specific precruise, syncruise, and postcruise topics for discussion and spent the remainder of the first day of the meeting discussing these issues and developing specific recommendations for the USIO, IODP-MI, and the Science Advisory Structure (SAS). On the second day of the meeting, the committee reviewed the recommendations and came to a consensus on each one. Finally, the committee was asked by IODP-MI how this operational review could be improved for future expeditions. The recommendations will be reviewed, finalized, and distributed in the second quarter of FY05 by IODP-MI.

The IODP-MI Expedition 301 REVCOM participants were S. Banks, GZA GeoEnvironmental, Inc., Providence, Rhode Island; B. Bekins, U.S. Geological Survey, Menlo Park, California; C. Bücker, RWE Dea, AG, Hamburg, Germany; A. Fisher, University of California, Santa Cruz, California; J. Fox, IODP-USIO Science Services, Texas A&M University (JOI Alliance); S. Howard, Howard & Associates International, Inc., Lafayette, Louisiana; T. Janecek, IODP-MI, Washington, D.C.; G. Karlsen, BP America, Houston, Texas; M. Kastner, University of California, San Diego, California; Y. Kawamura, Center for Deep Earth Exploration, Japan Marine Science and Technology Center (JAMSTEC), Japan; Adam Klaus, IODP-USIO Science Services, TAMU (JOI Alliance); Y. Otsuka, IODP-MI, Washington, D.C.; F. Rack, JOI (JOI

Alliance); D. Schroeder, IODP-USIO Science Services, TAMU (JOI Alliance); and M. Talwani, IODP-MI, Washington, D.C.

IODP PUBLICATIONS

IODP Publications and Curation Policy Review: H.C. Larsen (Vice President of Science Planning for IODP-MI) and T. Janecek (Vice President of Operations for IODP-MI) met with A. Klaus (Deputy Director of Data Services) and A. Miller (Interim Manager of Publication Services) of IODP-USIO Science Services, TAMU, on 6 December in San Francisco to discuss IODP Phase 1 publication requirements and the Interim IODP Sample, Data, and Obligations Policy.

Expedition 302 (Arctic Coring) Preliminary Report: In assistance to the ECORD Science Operator (ESO), the USIO offered to produce the Preliminary Report document after it is written and reviewed. ESO accepted the offer.

IODP-MI EDUCATION AND OUTREACH TASK FORCE

The IODP-MI Education and Outreach Task Force, which was created to act in an advisory capacity to the IODP-MI and report directly to IODP-MI, held its third meeting on 4 and 5 October 2004 in Washington, D.C. A. Klaus (Deputy Director of Data Services at IODP-USIO Science Services, TAMU) and L. Peart (JOI Education Coordinator) participated in the meeting as members of the task force, and K. White (JOI Director of Public Affairs) attended a portion of the meeting as an observer. As an outcome of the meeting, K. White serves on an IODP-MI/IO Public Relations subgroup that will address all questions regarding news release process and media policy and K. Petronotis (Web Administrator, TAMU) Services on an IODP-MI/IO Web subgroup headed by N. Light (IODP-MI Director of Communications) that is designed to solve the questions of how to include commonly needed/shared items and where to put them.

APPENDIX A: CONTRACTUAL ACTIVITIES

JOI

JOI CONTRACT WITH NSF OCE-0352500

- Modification 7: received \$10,000,000 in funding toward FY05 Program Plan activities.
- Modification 8: received \$5,100,000 in funding toward FY05 Program Plan activities.

Note: The USIO FY05 Program Plan for IODP has not received NSF contractual approval.

JOI SUBCONTRACT WITH TAMRF JSC 4-02

JOI issued the following modifications during the report period:

- Modification 5: provided \$9,200,000 in funding for platform operating costs (POCs) operations through 15 February 2005 and \$3,380,000 in funding for science operating costs (SOCs) for the first three FY05 USIO riserless vessel expeditions.
- Modification 6: provided \$8,600,000 for POC operations and \$400,000 for SOC operations.

JOI SUBCONTRACT WITH LDEO JSC 4-03

JOI issued the following modification during the report period:

- Modification 4: provided \$1,500,000 funding for the SOC portion of the FY05 Program Plan.

IODP-MI SOLICITATION

JOI received a revised solicitation from IODP-MI and was working on a proposal to be submitted in late January 2005 for an anticipated contract start date of 1 April 2005 with IODP-MI for the SOC portion of JOI's System Integration Contractor (SIC) endeavors.

LDEO

LDEO SUBCONTRACT NEGOTIATIONS

IODP-USIO Science Services, LDEO, continued subcontract negotiations with Schlumberger, University of Leicester (UK), Naturalia et Biologia (France), University of Aachen (Germany), and Ocean Research Institute (Japan).

TAMRF/TAMU

TAMRF SUBCONTRACT WITH ODL

On 29 November 2004, the Texas A&M Research Foundation (TAMRF) sent out written notification of its option to extend Subcontract L4104071-01.

CONTRACTS/PROCUREMENT ACTIVITY (\$100,000 OR GREATER)

No purchase orders valued at \$100,000 or more were issued.

OTHER CONTRACTS/PROCUREMENT ACTIVITY

TAMRF sent out the SODV request for proposals (RFP) to 10 companies on 19 October 2004. As of 1 January 2005, there were four possible vessels being submitted for review.

PROPERTY ACTIVITY

TAMRF submitted the FY04 Annual Property Inventory Report on 21 October 2004.

On 9 December 2004, TAMRF modified the existing loan agreement with the British Geological Survey and established a new loan agreement between TAMRF and Raytheon Polar Services for drill pipe.

MISCELLANEOUS ACTIVITY

On 26 October 2004, TAMRF submitted the Final 294 Report for FY04.

APPENDIX B: FINANCE REPORT

Please contact info@joiscience.org for hard copies of the financial pages.

APPENDIX C: PERSONNEL STATUS

JOI

No positions were advertised or filled during the quarter.

LDEO

The following position was filled during the quarter:

- Borehole Research Group Principal Scientist (A. Malinverno): anticipated start date 1 February 2005

TAMU/TAMRF

During this quarterly period the following positions opened and were advertised:

- Associate Director for Health, Safety, and Environment
- Chief Software Applications Developer
- Computer Systems Group Manager
- Engineer (2)
- Laboratory Specialist (2)
- Marine Laboratory Specialist
- Microcomputer Coordinator
- Operations Superintendent
- Research Associate
- Research Specialist
- Staff Scientist
- Systems Analyst I

The following positions were filled or canceled during the quarter:

- Administrative Assistant: (K. Hillis) 13 October 2004
- Assistant Laboratory Officer (two filled): (P. Ténrière) 17 November 2004; (L. Crowder) 6 December 2004
- Imaging Specialist: canceled
- Marine Laboratory Specialist (two filled): (K. Johnston and J. Henderson) 14 November 2004
- Staff Scientist: (C. Alvarez Zarikian) 14 October 2004
- Systems Analyst I: (J. Slone) 8 November 2004

APPENDIX D: CONFERENCE AND MEETING SCHEDULE*

Conference/Meeting	Date	Location
Science Planning Committee (SPC)	25–27 October 2004	Corvallis, OR
IO/IODP-MI Meeting	28–30 October 2004	Corvallis, OR
Geological Society of America Fall Meeting	7–10 November 2004	Denver, CO
Science Steering and Evaluation Panels (SSEPs)	16–19 November 2004	Okinawa, Japan
Environmental Protection and Safety Panel (EPSP)	6–7 December 2004	Honolulu, HI
Science Planning and Policy Oversight Committee (SPPOC)	11–12 December 2004	San Francisco, CA
American Geophysical Union Fall Meeting	13–17 December 2004	San Francisco, CA

* External meetings and conferences.

APPENDIX E: TRAVEL*

Institution	Personnel	Purpose	Date	Location
JOI	S. Bohlen, F. Rack	SPC Meeting	25–27 October 2004	Corvallis, OR
JOI	S. Bohlen, F. Rack	IO/IODP-MI Meeting	28–30 October 2004	Corvallis, OR
JOI	K. Kryc, M. Kleinrock, R. Wright	Data Communications and Security Task Force	3–4 November 2004	College Station, TX
JOI	J. Anziano, M. Cortes, K. Kryc, F. Rack	GSA Fall Meeting	6–11 November 2004	Denver, CO
JOI	S. Bohlen, M. Cortes, M. Kleinrock, K. Kryc, L. Peart, F. Rack, S. Williams	JOI Alliance Retreat	29 November–3 December 2004	Hilton Head, NC
JOI	E. Hayman, S. Williams	SODV Pre-Bidders Conference	9 December 2004	College Station, TX
JOI	E. Hayman, S. Williams	SODV Bidders Conference	10 December 2004	College Station, TX
JOI	S. Bohlen, F. Rack	SPPOC Meeting	11–12 December 2004	San Francisco, CA
JOI	J. Anziano, S. Bohlen, K. Kryc, M. Niemitz, L. Peart, F. Rack, K. White	AGU Fall Meeting	13–17 December 2004	San Francisco, CA
LDEO	G. Iturrino, G. Myers	Project Science Workshop	1–7 October 2004t	Aspen, CO
LDEO	D. Goldberg	JASIT Meeting	5 October 2004	Washington, DC
LDEO (LGHF)	A. Belghoul	Logging Training	8–16 October 2004	Palisades, NY
LDEO	D. Goldberg	SPC Meeting	26–27 October 2004	Corvallis, OR
LDEO	D. Goldberg	IO/IODP-MI Meeting	28 October 2004	Corvallis, OR
LDEO	A. Cook	SPWLA Meeting	1–11 November 2004	Taos, NM
LDEO	T. Baker, D. Quoidbach	Data Communications and Security Task Force	3–4 November 2004	College Station, TX
LDEO/LUBR	H. Delius, G. Iturrino	SSEP Meeting	15–21 November 2004	Okinawa, Japan
LDEO (Aachen)	M. Linek	Expedition 305 Third-Party Tool Coordination	29–30 November 2004	Goettingen, Germany
LDEO	D. Goldberg, G. Guerin, G. Myers, D. Quoidbach, M. Reagan	JOI Alliance Retreat	29 November–2 December 2004	Hilton Head, SC
LDEO	S. Robinson	Expedition 303 Debriefing	2–9 December 2004t	Palisades, NY
LDEO (LGHF)	J. Gastambide	Contract Meeting	7–12 December 2004	Palisades, NY
LDEO	D. Goldberg	Logging Consortium Meeting	12 December 2004	San Francisco, CA
LDEO	D. Goldberg	SPPOC Meeting	10–12 December 2004	San Francisco, CA

Institution	Personnel	Purpose	Date	Location
LDEO	D. Goldberg, G. Guerin, S. Higgins, G. Iturrino, M. Reagan, T. Williams	AGU Fall Meeting	12–16 December 2004	San Francisco, CA
LDEO (LUBR)	T. Brewer, H. Delius, P. Harvey	AGU Fall Meeting	12–16 December 2004	San Francisco, CA
LDEO (LGHF)	J. Gastambide	AGU Fall Meeting	12–16 December 2004	San Francisco, CA
LDEO (Aachen)	M. Linek, R. Pechnig	Expedition 305 Third-Party Tool Coordination	12–16 December 2004	San Francisco, CA
TAMU	A. Klaus	Education and Outreach Meeting	3–6 October 2004	Washington, DC
TAMU	S. Midgley	Project Science Workshop	3–8 October 2004	Aspen, CO
TAMU	M Hastedt, D. Morley	Linux Training	3–8 October 2004	Detroit, MI
TAMU	W. Chen	Oracle Database Training	3–9 October 2004	New York, NY
TAMU	B. Jonasson	SPE/IADC Underbalanced Technical Conference	10–12 October 2004	Houston, TX
TAMU	A. Klaus	NanTroSEIZE Project Scoping Meeting	10–16 October 2004	Yokosuka, Japan
TAMU	B. Jonasson	Project Management Certificate Program	20–22 October 2004	San Antonio, TX
TAMU	D. Hornbacher	Software Summit	23–30 October 2004	Keystone, CO
TAMU	J. Baldauf, J. Fox, A. Klaus	SPC and IO Meetings	24–30 October 2004	Corvallis, OR
TAMU	R. Dixon	Vendor Meeting	25–26 October 2004	Lafitte, LA
TAMU	D. Ponzio	IAITAM 2004 Annual Conference	26–30 October 2004	Las Vegas, NV
TAMU	P. Ténrière	Gulf Coast Conference	27 October 2004	Galveston, TX
TAMU	J. Firth	IO Database Meeting	27–31 October 2004	Corvallis, OR
TAMU	R. Mithal	IODP-MI Data Management Meeting	27–30 October 2004	Corvallis, OR
TAMU	P. Blum, D. Fackler	IO/IODP-MI Meeting	27–30 October 2004	Corvallis, OR
TAMU	L. McKnight	Hazardous Material Airfreight to Panapiha	28 October 2004	Houston, TX
TAMU	T. Becker	Interview For Operations Supervisor Position	31 October–31 November 2004	College Station, TX
TAMU	A. Klaus, A. Miller, K. Petronotis	IODP-MI Publications Task Force Meeting	2–5 November 2004	Washington, DC
TAMU	B. Jonasson	Vendor Visit (Cameron)	5 November 2004	Houston, TX
TAMU	D. Houpt, L. Peters	GSA Fall Meeting	6–11 November 2004	Denver, CO
TAMU	J. Firth	Expedition 302 Sampling Party	6–12 November 2004	Bremen, Germany
TAMU	E. Dillard	Hazardous Materials Training	7–13 November 2004	Baltimore, MD
TAMU	R Gjesvold, P. Kannberg, L. Brandt	Hazardous Materials Training	7–14 November 2004	College Station, TX
TAMU	H. Paul	STCW Training	7–14 November 2004	College Station, TX
TAMU	P. Esmay	Expedition 302 Sampling Party	7–23 November 2004	Bremen, Germany
TAMU	L. Chen, D. Ferrell	NI Symposium	9 November 2004	Houston, TX
TAMU	L. McKnight	Panalpina Expedition 304 Air Freight	11 November 2004	Houston, TX
TAMU	C. A. Zarikian	SSEP Meeting	12–20 November 2004	Nago, Okinawa, Japan
TAMU	D. Hornbacher	Performance Management Skills	14–16 November 2004	Ottawa, Canada
TAMU	L. Chen	LabView Basics I and II Training	14–20 November 2004	Austin, TX

Institution	Personnel	Purpose	Date	Location
TAMU	B. Jonasson	Project Management Certificate Program	17–29 November 2004	San Antonio, TX
TAMU	S. Prinz	Interview for WCR Superintendent Position	20–23 November 2004	College Station, TX
TAMU	J. Baldauf, D. Becker, T. Davies, J. Fox, A. Klaus, A. Miller, K. Petronotis	JOI Alliance Retreat	29 November–3 December 2004	Hilton Head, SC
TAMU	J. Baldauf, N. DeSilva	EPSP Meeting	4–8 December 2004	Chiba, Japan
TAMU	E. Jackson	Hazardous Materials Training	5–11 December 2004	College Station, TX
TAMU	R. Kralich	Hazardous Materials Training	5–11 December 2004	Las Vegas, NV
TAMU	J. Fox	SPPOC Meeting, Talk at UCSB, AGU Fall Meeting	8–15 December 2004	Santa Barbara, CA
TAMU	A. Klaus	REVCOM Meeting and AGU Fall Meeting	8–18 December 2004	Washington, DC San Francisco, CA
TAMU	B. Horan	AGU Fall Meeting/IODP Display	9–21 December 2004	San Francisco, CA
TAMU	A. Miller	AGU Fall Meeting	12–14 December 2004	San Francisco, CA
TAMU	T. Davies	AGU Fall Meeting	12–17 December 2004	San Francisco, CA
TAMU	A. Klaus	AGU Fall Meeting	12–18 December 2004	San Francisco, CA
TAMU	B. Jonasson	Project Management Certificate Program	14–18 December 2004	San Antonio, TX
TAMRF	B. Lancaster	Project Science Workshop	3–7 October 2004	Aspen, CO
TAMRF	I. Kindt	Access Training	19–22 October 2004	Las Vegas, NV
TAMRF	K. Huff	Immigration Seminar	19–23 October 2004	New York, NY

* Travel associated with meetings, conferences, port call work, and nonroutine sailing activities.

APPENDIX F: DATA REQUESTS

Top 10 Countries Accessing Janus Web Database*		
Rank	Countries	Visitor Sessions
1	United States	12,109
2	Germany	395
3	United Kingdom	382
4	Japan	207
5	Canada	204
6	Australia	135
7	France	128
8	Western Europe	74
9	Italy	73
10	Netherlands	68
	All others	638
	Total	14,413

Note: * = Excluding access from IODP-USIO Science Services, TAMU.

Top 20 Janus Web Queries*		
Rank	Query	Views
1	Sample report and sample code	1148
2	Hole trivia: coring summary	594
3	Core photograph images	341
4	Site-hole summary	301

Top 20 Janus Web Queries*		
Rank	Query	Views
5	Leg summary	298
6	Sample requests	273
7	Core-section summary	246
8	Moisture and density	209
9	Depth point calculation	192
10	Gamma ray attenuation bulk density	167
11	Paleontology: age model	162
12	Magnetic susceptibility	135
13	Chemistry: gas	134
14	Hole-core summary	125
15	Hole trivia: site details	118
16	Paleontology: range table	114
17	Chemistry: carbonate	102
18	Chemistry: Rock-Eval	102
19	Prime data images	96
20	Chemistry: interstitial waters	94
	Total	4951

Note: * = Excluding access from IODP-USIO Science Services, TAMU.

Other Web Janus Database Statistics*
Database Query Hits:
Entire site (successful): 31,452
Average per day: 341
Visitor Sessions:
Visitor sessions: 14,413
Average per day: 156
Average visitor session length: 0:10:20
International visitor sessions: 15.99%
Visitor sessions of unknown origin: 0
Visitor sessions from United States: 84.01%
Visitors:
Unique visitors: 5,144
Visitors who visited once: 4,033
Visitors who visited more than once: 1,111
Average visits per visitor: 2.8

Note: * = Excluding access from IODP-USIO Science Services, TAMU.

APPENDIX G: SAMPLE REQUESTS

IODP Expedition/ Repository	Requests	Request Number, Name, Country	Number of Samples
303	1	20027B, de Vernal/Hillaire-Marcel, Canada	Deferred to shore sampling
303	1	20030A, Damuth/Balsam, USA	Deferred to shore sampling
303	1	20031A, Bartoli/Sarnthein/Weinelt, Germany	Deferred to shore sampling
303/306	1	20033A, de Abreu, UK	Deferred to shore sampling
303	1	20034A, Kawamura, Japan	Deferred to shore sampling
303	1	20034B, Kawamura/Kawamura, Japan	Deferred to shore sampling
303	1	20035A, Leigh/Austin/Ellam, UK	Deferred to shore sampling

IODP Expedition/ Repository	Requests	Request Number, Name, Country	Number of Samples
303	1	20036A, Cobianchi, Italy	Deferred to shore sampling
303	1	20037A, Mazaud/Kissel/Guyodo, France	Deferred to shore sampling
303	1	20038A, Romero, Germany	Deferred to shore sampling
303	1	20039A, Schiebel, Switzerland	Deferred to shore sampling
303	1	20040A, Ito, Japan	Deferred to shore sampling
303	1	20041A, Bork, Germany	Deferred to shore sampling
303	1	20042A, Kawamura/Ishikawa, Japan	Deferred to shore sampling
303	1	20043A, Stein, Germany	Deferred to shore sampling
303	1	20044A, Stoner, USA	Deferred to shore sampling
303	1	20045A, Funakawa, Japan	Deferred to shore sampling
303	1	20046A, Eyles/de Vernal, Canada	Deferred to shore sampling
303/306	1	20047A, Vance/Schmidt/Shackleton, UK	Deferred to shore sampling
303	1	20048A, Ennyu, Japan	Deferred to shore sampling
303	1	20049A, Wright/Henderson, USA	Deferred to shore sampling
303	1	20050A, Shimada, Japan	Deferred to shore sampling
303	1	20051A, Krissek/St. John, USA	Deferred to shore sampling
303	1	20052A, Chiyonobu/Sato/Yamasaki, Japan	Deferred to shore sampling
303	1	20053A, Sato/Chiyonobu/Yamasaki, Japan	Deferred to shore sampling
303	1	20054A, Yamasaki, Japan	Deferred to shore sampling
303	1	20055A, Wilkens, USA	Deferred to shore sampling
303	1	20056A, Liu, China	Deferred to shore sampling
303	1	20069A, Obrochta/Crowley, USA	Deferred to shore sampling
303	1	20070A, Esmerode/Surlyk, Denmark	Deferred to shore sampling
303	1	20074A, Robinson, UK	Deferred to shore sampling
303	1	20077A, Channell, USA	Deferred to shore sampling
303	1	20091A, Roberts, UK	Deferred to shore sampling
303	1	20184A, Ito, Japan	Deferred to shore sampling
303	1	20189A, Hodell, USA	Deferred to shore sampling
303	1	20194A, Romero, Germany	Deferred to shore sampling
303	1	20195A, Hodell/Romero, USA	Deferred to shore sampling
304/305	1	20073A, Viereck-Goette/Abratis, Germany	Deferred to shore sampling
304/305	1	20075A, Beard, USA	Deferred to shore sampling
304/305	1	20076A, Hirose/Shimamoto/Burlini, Japan	Deferred to shore sampling
304/305	1	20078A, Cipriani, USA	Deferred to shore sampling
304/305	1	20079A, Delacour/Fruh-Green, Switzerland	Deferred to shore sampling
304/305	1	20094A, Searle, UK	Deferred to shore sampling
304/305	1	20095A, Escartin/Singh/Cannat, France	Deferred to shore sampling
304/305	1	20097A, Suhr, Germany	Deferred to shore sampling
304/305	1	20098A, Andreani/Mevel/Baronnet, France	Deferred to shore sampling
304/305	1	20100A, Godard/Alard, France	Deferred to shore sampling
304/305	1	20101A, McCaig/Cliff/Fallick, UK	Deferred to shore sampling
304/305	1	20102A, Morris, UK	Deferred to shore sampling
304/305	1	20103A, Maeda/Yamasaki/Niida, Japan	Deferred to shore sampling
304/305	1	20104A, Maeda/Yamasaki, Japan	Deferred to shore sampling
304/305	1	20105A, Fruh-Green/Bernasconi/Bollmann, Switzerland	Deferred to shore sampling
304/305	1	20109A, Yamasaki/Maeda/Niida, Japan	Deferred to shore sampling
304/305	1	20111A, Ildefonse/Drouin, France	Deferred to shore sampling
304/305	1	20112A, Gee, USA	Deferred to shore sampling
304	1	20113A, Hayman, USA	Deferred to shore sampling
304/305	1	20114A, Awaji/Nakamura/Kato, Japan	Deferred to shore sampling
304/305	1	20115A, Kato/Awaji/Nakamura, Japan	Deferred to shore sampling
304	1	20119A, Christie, USA	Deferred to shore sampling
304/305	1	20126A, Hirth, USA	Deferred to shore sampling

IODP Expedition/ Repository	Requests	Request Number, Name, Country	Number of Samples
304/305	1	20135A, Johnson, USA	Deferred to shore sampling
304	1	20136A, Nakagawa/Kakegawa/Maruyama, Japan	Deferred to shore sampling
304/305	1	20143A, Zhao, USA	Deferred to shore sampling
304/305	1	20144A, Halfpenny/Prior, UK	Deferred to shore sampling
304/305	1	20145A, Brunelli/Seyler, France	Deferred to shore sampling
304/305	1	20146A, Brunelli, France	Deferred to shore sampling
304/305	1	20151A, Rosner/Bach, USA	Deferred to shore sampling
304/305	1	20152A, Rosner/Erzinger, USA	Deferred to shore sampling
304/305	1	20153A, Rosner/Bach/Erzinger, USA	Deferred to shore sampling
304/305	1	20160A, Kumagai/Awaji/Abe, Japan	Deferred to shore sampling
304	1	20171A, Gardien, France	Deferred to shore sampling
304	1	20177A, Andal/Arai, Japan	Deferred to shore sampling
304/305	1	20182A, Blackman/Constable/Castelnaud, USA	Deferred to shore sampling
304/305	1	20183A, Drouin/Ildefonse/Godard, France	Deferred to shore sampling
304	1	20186A, Frost, USA	Deferred to shore sampling
304	1	20187A, Charney, USA	Deferred to shore sampling
304	1	20188A, Grimes/John, USA	Deferred to shore sampling
304	1	20206A, Miller, USA	Deferred to shore sampling
304/305	1	20227A, Godard/Frost/Morris, France	Deferred to shore sampling
304/305	1	20080A, Nozaka, Japan	Deferred to shore sampling
305	1	20092A, Tominaga, Japan	Deferred to shore sampling
305	1	20129A, Delius/Linek, UK	Deferred to shore sampling
305	1	20137A, Hellebrand, Germany	Deferred to shore sampling
305	1	20139A, Hansen/Pedersen, Norway	Deferred to shore sampling
305	1	20157A, Michibayashi, Japan	Deferred to shore sampling
305	1	20158A, Abe/Kumagai, Japan	Deferred to shore sampling
305	1	20161A, Tamura/Arai, Japan	Deferred to shore sampling
305	1	20162A, Karner, USA	Deferred to shore sampling
305	1	20163A, Ishimaru/Arai, Japan	Deferred to shore sampling
305	1	20164A, Sano, Japan	Deferred to shore sampling
304/305	1	20165A, von der Handt, Germany	Deferred to shore sampling
305	1	20181A, Fryer, USA	Deferred to shore sampling
305	1	20185A, Mason/Fisk/Giovannoni, USA	Deferred to shore sampling
Total:	93		1,121
ECR	1	18877A, Passow, USA	0
ECR	1	18535D, Marino/Maiorano, Italy	19
ECR	1	17055L, Harding/Eldrett, UK	10
ECR	1	15773C, Thunell/Kendrick, USA	7
ECR	1	20086A, Piotrowski, UK	25
ECR	1	20093A, Johnson/Webb, USA	30
ECR	1	20131A, Williams, UK	5
ECR	1	20248A, O'Connell, USA	0
ECR	1	20117A, Herrle/Palmer/Wilson, UK	10
ECR	1	18804B, Hoenisch, USA	256
ECR	1	20059A, Bains, UK	121
ECR	1	18868A, Mukhopadhyay, USA	38
ECR	1	18417B, Gillis, Canada	23
ECR	1	20127A, Chauvel/Carpentier, France	38
ECR	1	20089A, Diester-Haass, Germany	284
ECR	1	20219A, Williams, UK	3
ECR	1	18741B, Wright, USA	0
ECR	1	20142A, Norris, USA	42

IODP Expedition/ Repository	Requests	Request Number, Name, Country	Number of Samples
ECR	1	18701B, Horst, USA	32
ECR	1	18887A, Lawrence/Herbert, USA	446
Total science:	17		
Total education:	3		
Total PR:	0		
Total:	20		1,389
GCR	1	18883A, Foster, USA	38
GCR	1	18533C, Ehrenberg, Norway	6
GCR	1	20066A, Wilson, UK	94
GCR	1	18886A, Cleaveland, USA	420
GCR	1	17598B, Holburn, Germany	36
GCR	1	17399F, Liu, USA	461
GCR	1	18475B, Ishii, Japan	520
GCR	1	18473B, Haraguchi, Japan	8
GCR	1	20082A, Shimamoto, Japan	125
GCR	1	18826C, Lear, UK	609
GCR	1	20063A, Algeo, USA	63
GCR	1	20064A, Barron, USA	64
GCR	1	20062A, Guodong, China	270
GCR	1	16563A, Knappertsbusch, Switzerland	3
GCR	1	20060A, Ivarsson, Sweden	12
GCR	1	17396C, Fukukawa, Japan	43
GCR	1	20121A, Howe, Australia	2
GCR	1	17956B, Tiedemann, Germany	91
GCR	1	20057A, Murayama, Japan	80
GCR	1	20061A, Kameo, Japan	456
GCR	1	20086A, Piotrowski, USA	15
GCR	1	20093A, Johnson, USA	80
GCR	1	18610C, Clarke, UK	195
GCR	1	18892A, Meffre, Australia	3
GCR	1	20084A, Laverne, France	17
GCR	1	20083A, Bendle, Japan	56
GCR	1	17979B, Cacho, Spain	1,214
GCR	1	20120A, Higgins, USA	532
GCR	1	20131A, Williams, UK	3
GCR	1	20124A, McCarthy, Canada	140
GCR	1	20141A, Ravizza, USA	36
GCR	1	20147A, Thomans, USA	0
GCR	1	20150A, Federici, New Zealand	114
GCR	1	20154A, Zhao, USA	140
GCR	1	20155A, Albarede, France	39
GCR	1	17441C, Howell, USA	3,752
GCR	1	20159A, Schmidt, UK	66
GCR	1	20168A, Thoron, USA	100
GCR	1	20193A, Ivarsson, Sweden	45
GCR	1	20138A, Mortimer, New Zealand	13
GCR	1	20203A, Junfeng, China	531
GCR	1	20198A, Capellacci, Switzerland	177
GCR	1	20134A, Godard, France	29
GCR	1	20176B, Pusz, USA	191
GCR	1	20180A, Lascarez, Spain	3
GCR	1	20191A, Johnson, USA	3

IODP Expedition/ Repository	Requests	Request Number, Name, Country	Number of Samples
GCR	1	20215A, Lueer, Germany	61
GCR	1	20217A, Hayward, New Zealand	61
GCR	1	20222A, Stoll, USA	16
Total science:	49		
Total education	1		
Total PR:			
Total:	50		11,050
WCR	1	16563F, Knappertsbusch, Switzerland	24
WCR	1	20057A, Murayama, Japan	73
WCR	1	20131A, Williams, UK	5
WCR	1	20140A, Marsaglia, USA	24
WCR	1	20096A, Cohen, USA	6
WCR	1	18840B, Ando, Japan	24
WCR	1	20068A, Johnson, USA	45
WCR	1	20062A, Guodong, China	323
WCR	1	18869A, Geldmacher, Germany	79
WCR	1	20065A, Theriot, USA	120
WCR	1	20128A, MacDougall, USA	0
WCR	1	20118A, Gonzalez, Mexico	0
Total science:	10		
Total education:	2		
Total PR:			
Total	12		723

APPENDIX H: PUBLICATIONS

Publication	Release Date	URL
<i>Preliminary Report:</i>		
Expedition 301 (Juan de Fuca Hydrogeology)	2 November 2004	http://iodp.tamu.edu/publications/PR/301PR/301PR.html
Expedition 301T (Costa Rica Hydrogeology)	29 November 2004	http://iodp.tamu.edu/publications/PR/301TPR/301TPR.html

APPENDIX I: WEB

Comparison of Web access statistics averages between FY04 Q4 and FY05 Q1 indicates a 25% increase in Web site traffic.

JOI

Web access statistics are not available for the USIO/JOI Web server.

LDEO

iodp.ldeo.columbia.edu*	FY05 Q1		
	Oct	Nov	Dec
Parameter			
Page views	2129	891	819
Site visits	1279	742	699

TAMU

iodp.tamu.edu*	FY05 Q1		
	Oct	Nov	Dec
Parameter			
Page views	49818	46784	49133
Site visits	10031	10966	12542

* IODP-USIO, TAMU, employee and search engine spider visits have been filtered out.

APPENDIX J: CORE REPOSITORY CONSOLIDATION

IODP-USIO Science Services, TAMU, submitted a proposal to IODP-MI in December 2004 regarding redistribution of Deep Sea Drilling Project (DSDP) and ODP cores and the distribution of IODP cores.

APPENDIX K: MAJOR RESEARCH EQUIPMENT AND FACILITIES CONSTRUCTION (MREFC) ACCOUNT—U.S. SCIENTIFIC OCEAN DRILLING VESSEL (SODV) PROJECT

U.S. SODV PROJECT MONTHLY REPORT—DECEMBER 2004

During the reporting period (1 October–31 December 2004), the JOI Alliance accomplished several major steps in the process of acquiring the new SODV. Chief among these were the development of an updated master program schedule, a Source Selection Plan (SSP) and the completion and release of the RFP soliciting for a conversion of an existing drillship to support IODP. As part of the bid process, a bidder's conference was held and individual drilling contractor questions were answered.

MARKET SURVEY AND INVITATION TO TENDER STATUS

The results of these efforts were used to help develop the initial draft of the RFP. Responses from these requests provided insight that a reasonable pool of bidders was available to provide for a competitive environment from which a satisfactory ship could be selected.

SOURCE SELECTION

TAMRF completed the SSP that identified the make-up of the Source Evaluation Board (SEB) and the Source Selection Advisory Council (SSAC). Membership on these groups was identified, including participation from the science community, and the process was documented to ensure the preferred option is presented to the Source Selection Official (SSO) at TAMRF. An award is planned in the third quarter of FY05.

PROGRAM SCHEDULE

A Microsoft Project schedule was developed for the baseline funding stream provided by NSF as a result of the FY05 budget development. This plan will be updated when the FY06 budget is released.

SODV RFP

Early in this period, an extensive review of the draft RFP was conducted by the JOI Alliance. Comments were also received from NSF. S. Williams (JOI SODV Project Director) visited

IODP-USIO Science Services, LDEO, to discuss the needs of the logging program and required timeline elements. A final review was held at IODP-USIO Science Services, TAMU, just prior to release to clarify the award criteria and update some of the technical information.

ACTIVITIES OF THE JOI ALLIANCE PLATFORM TEAM

The JOI Alliance Platform team finished its work by competing the RFP. SODV Project Director S. Williams conducted a series of reviews and provided comments to IODP-USIO Science Service, TAMU and LDEO.

PHASE 2 COMMUNITY INVOLVEMENT

The status of the SODV program was briefed to the science community in December 2004 at an IODP Town Hall meeting during the annual AGU Fall Meeting in San Francisco. In addition, the SODV Web site was updated with a briefing book that explains the science requirements being incorporated in the RFP and asking for comments through a questionnaire.

APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

S. Bohlen, JOI, sbohlen@joiscience.org
E. Hayman, JOI, ehayman@joiscience.org
M. Kleinrock, JOI, mkleinrock@joiscience.org
C. Kokinda, JOI, ckokinda@joiscience.org
K. Kryc, JOI, kkryc@joiscience.org
F. Rack, JOI, frack@joiscience.org
K. White, JOI, kwhite@joiscience.org
S. Williams, JOI, swilliams@joiscience.org
D. Goldberg, LDEO, goldberg@ldeo.columbia.edu
D. Quoidbach, LDEO, daniel@ldeo.columbia.edu
M. Reagan, LDEO, reagan@ldeo.columbia.edu
P. Stambaugh, LDEO, pam@admin.ldeo.columbia.edu
J. Allan, NSF, jallan@nsf.gov
R. Batiza, NSF, rbatiza@nsf.gov
B. Malfait, NSF, bmalfait@nsf.gov
P. Welsh, NSF, pwelsh@nsf.gov
J. Baldauf, TAMU, baldauf@iodp.tamu.edu
J. Fox, TAMU, fox@iodp.tamu.edu
Ann Klaus, TAMU, annklaus@iodp.tamu.edu
R. McPherson, TAMRF, mcpherson@iodp.tamu.edu