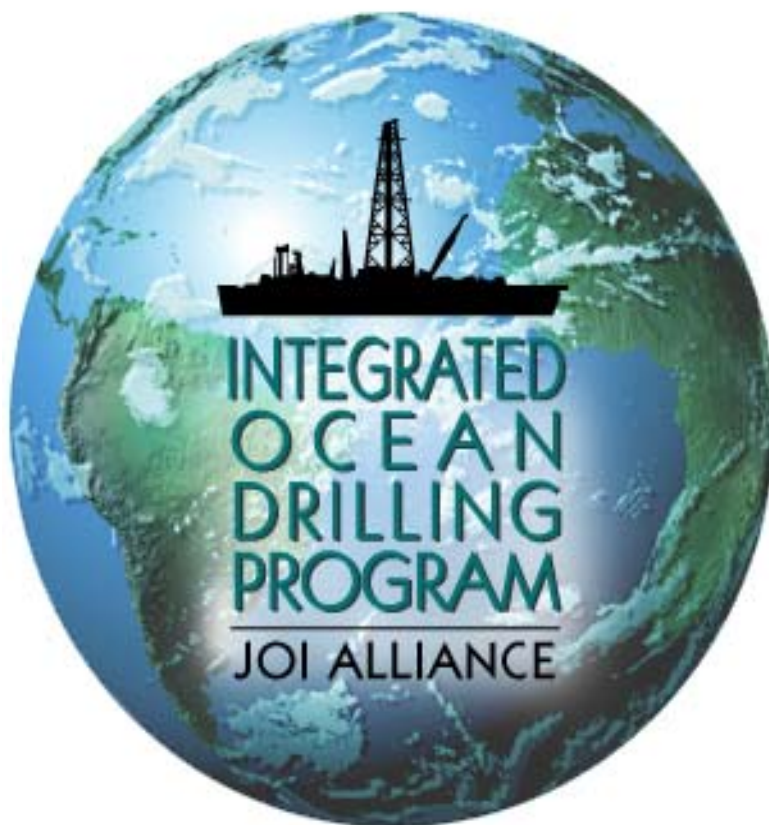


18 August 2005



**1 April–30 June 2005**

**FY05 Quarterly Report 3**

**NSF Contract No. OCE-0352500**

**Submitted by the JOI Alliance to  
The National Science Foundation**

**and**

**IODP Management International, Inc.**

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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 Joint Oceanographic Institutions, Inc. (JOI) Alliance during the third quarter of FY05.

## PHASE 1 EXPEDITION OPERATIONS

### IODP-USIO EXPEDITION SCHEDULE

The following IODP-USIO operational schedule was issued on 14 July 2005. The Monterey Borehole Observatories expedition was removed from the schedule because of concern that the permitting requirements could not be met in the time available prior to the scheduled start of the expedition. Time originally allocated to the Monterey Borehole Observatories expedition has been reallocated among the Expedition 311 (Cascadia Margin Gas Hydrates) and Expeditions 309 and 311 (Superfast Spreading Rate Crust 2 and 3) expeditions.

Cruise	Port (Origin)	Dates <sup>1,2</sup>	Total Days (Port/Sea)	Days at Sea (Transit <sup>3</sup> /Ops <sup>4</sup> )	Co-Chief Scientists	Alliance Contact(s)	
Porcupine Carbonate Mounds	307	Dublin	26 April–31 May 2005	35 (6/29)	19/10	T. Ferdelman A. Kano	TAMU: M. Malone LDEO: T. Williams
Gulf of Mexico Hydrogeology	308	Mobile	31 May–6 July 2005	40 (5/35)	11/24	J. Behrmann P. Flemings	TAMU: C. John LDEO: G. Iturrino
Superfast Spreading Rate Crust 2	309	Cristobal	8 July–28 August 2005	51 (5/46)	6/40	D. Teagle S. Umino	TAMU: N. Banerjee LDEO: F. Einaudi
Cascadia Margin Gas Hydrates	311	Balboa	28 August–29 October 2005 <sup>5</sup>	62 (6/56)	19/37	T. Collett M. Riedel	TAMU: M. Malone LDEO: G. Guerin
Superfast Spreading Rate Crust 3	312	Victoria	29 October–29 December 2005 <sup>6</sup>	61 (5/56)	19/37	J. Alt S. Miyashita	TAMU: N. Banerjee LDEO: TBN
Demobilization		Cristobal <sup>7</sup>	29 December 2005–31 January 2006	33 (26/7)	7/0	NA	TAMU: M. Storms LDEO: G. Myers

Notes:

<sup>1</sup> Ship is scheduled to arrive 0600 hr on first day of port call.

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

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

<sup>4</sup> Ops = operations (includes both on-site and between-site time).

<sup>5</sup> The Expedition 311 port of call will be split with 2 days in Balboa, Panama, followed by 4 days in Astoria, Oregon. Scientists should embark vessel in Astoria on 15 September 2005.

<sup>6</sup> Scientists scheduled to embark vessel in Acapulco, Mexico, on 13 November 2005.

<sup>7</sup> Demobilization is scheduled to occur in Galveston, Texas.

## **EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES**

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

**Expedition Implementation:** Expedition 306 was completed on 25 April 2005 when the *JOIDES Resolution* entered Dublin, Ireland. Despite the extreme weather conditions experienced early in the expedition, we were ultimately successful. Complete sedimentary sections were drilled by multiple advanced piston corer (APC) coring directly south of the central Atlantic ice-rafted debris (IRD) belt and on the southern Gardar Drift. In addition, a borehole observatory was successfully installed in a new 170 m deep hole close to Ocean Drilling Program (ODP) Site 642, consisting of a Circulation Obviation Retrofit Kit (CORK) to seal the borehole from the overlying ocean, a thermistor string, and a data logger to document and monitor bottom water temperature variations over time.

**Postexpedition Activities:** The Expedition 303 first postcruise meeting was held 25–29 April 2005. The Expedition 303 sampling party was held at the Bremen Core Repository (BCR) in Bremen, Germany, on 23–29 May 2005.

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

**Postexpedition Activities:** The Expedition 304/305 sampling party was held at the Gulf Coast Repository 30 May–3 June 2005. The first postcruise meeting for these expeditions was held 6–10 June 2005. An internal JOI Alliance assessment of Expeditions 304 and 305 was completed in June 2005 in preparation for the Review Task Force (formerly REVCOM) meeting scheduled for late July 2005.

### **IODP-USIO EXPEDITION 307: PORCUPINE CARBONATE MOUNDS**

**Expedition Implementation:** Expedition 307 began in Dublin, Ireland, on 25 April 2005. Only 10 days of on-site operations were conducted in the Porcupine Basin, west of Ireland, and the scientific party disembarked at Ponta Delgada, Azores, Portugal, on 16 May 2005, before the ship continued on the long transit to Mobile, Alabama. The expedition ended in Mobile on 30 May 2005. Expedition 307 successfully completed and surpassed the operations plan set out in the Scientific Prospectus. All three planned sites reached their target depth, were double to quadruple cored with the APC in their upper section, and were wireline logged. We now have the core material that, with postcruise analysis, will be used to meet the expedition objectives and confirm or disprove many hypotheses about carbonate mound initiation and growth.

**Expedition Staffing:** Staff Scientist: T. Williams; Co-Chief Scientists: T. Ferdelmen, A. Kano; Logging Staff Scientist: P. Gaillot. J.-P. Henriot was originally invited and accepted as Co-Chief Scientist but had to withdraw for medical reasons. T. Ferdelmen, who also attended the precruise meeting and was a high-ranking European Consortium for Ocean Research Drilling (ECORD) nominee for the science party, agreed to sail as Co-Chief Scientist. Scientific staffing for the expedition (excluding Co-Chief Scientists) included the following IODP membership breakdown: eight U.S. Science Support Program (USSSP), seven Japan Drilling Earth Science Consortium (J-DESC), and eight ECORD participants and one IODP-China participant. This balance represents an IODP Management International, Inc., (IODP-MI)-sanctioned trade of berths between ECORD and Japan.

**Technology:** Standard APC, extended core barrel (XCB), and rotary core barrel (RCB) coring and standard wireline logging was used on Expedition 307. No unconventional or complex technology was required. However, it was determined that because of the nature of the rocks sampled, it was best to freeze cores before splitting in order to preserve delicate internal

structures. Because the *JOIDES Resolution* is not equipped for this procedure, the majority of the cores were left unsplit and returned to the Gulf Coast Repository (GCR) for splitting prior to shipment to the BCR for description, sampling, and permanent storage. Splitting will take place during the summer of 2005.

### **IODP-USIO EXPEDITION 308: GULF OF MEXICO HYDROGEOLOGY**

**Expedition Planning:** Final technical and logistical plans were completed to ensure success on Expedition 308. Because the expedition would take place in a known hydrocarbon province with overpressured sediments, an operations protocol document was developed detailing operational procedures and mitigating steps to be taken in the event that shallow-flow conditions were encountered. Two pre-expedition conference calls between the Co-Chief Scientists, operations personnel, and the logging staff scientist were held to discuss the expedition's operations protocol and several meetings were held during the Expedition 308 port call to finalize the protocol. A meeting was also held on 18 May 2005 in Houston, Texas, with Shell Exploration and Production staff to discuss potential hazards and planned IODP operational procedures. The operations protocol document was reviewed by the Environmental Protection and Safety Panel (EPSP) and the Texas A&M University (TAMU) Safety Panel and was used to guide operational decisions during the expedition.

Negotiations were completed to secure a work boat for delivering logging-while-drilling (LWD) equipment and personnel to the Gulf of Mexico drilling locations. Surface equipment needed for the expedition was successfully installed in Mobile, Alabama. Schlumberger dispatched technicians to service the wireline heave compensator and all Schlumberger tools were delivered to a local service center for rapid turnaround servicing.

**Expedition Staffing:** Staff Scientist: C. John; Co-Chief Scientists: P. Flemings, J. Behrmann; Logging Staff Scientist: G. Iturrino. Staffing commenced in March 2005. The final composition of the scientific party (excluding Co-Chief Scientists) included the following IODP membership breakdown: seven USSSP, six J-DESC, seven ECORD, and two IODP-China participants.

**Clearance and Permitting Activities:** Because some of the proposed sites fall in lease blocks held by petroleum companies, negotiations began in January 2005 to secure permission to operate in those lease blocks. Final negotiations were concluded in late May 2005. Permission from all three companies involved (Shell, British Petroleum, and Amerada Hess) was in hand before the commencement of Expedition 308.

**Expedition Implementation:** Expedition 308 began when the *JOIDES Resolution* sailed from Mobile, Alabama, on 4 June 2005. Operations were conducted in three phases: coring and downhole measurements at two sites in the Brazos-Trinity Basin, measurement while drilling (MWD)/LWD at sites in both Brazos-Trinity and Ursa Basins, and coring and downhole measurements at two sites in the Ursa Basin. Expedition 308 was an overall success, achieving all major objectives.

Lithologies recovered at Sites U1319 and U1320 in the normally-pressured Brazos-Trinity Basin included hemipelagic clays, with intervals of sandy turbidites. A 2 cm thick white ash layer (ash Layer Y8) was recovered at both sites, providing a regional stratigraphic marker dated at 84,000 years BP based on previous work. Four deployments of the temperature-dual-pressure (T2P) tool resulted in successful recording of pressure and temperature and showed the geothermal gradient to be ~20°C/km. Site U1320 was logged successfully with three tool strings: the triple combination (triple combo), Formation MicroScanner (FMS)-sonic, and the Well Seismic Tool (WST).

MWD/LWD tools were delivered to the *JOIDES Resolution* at Site U1320 on 10 June 2005 by the supply boat *Emily G*. MWD/LWD operations began with a second hole at Site U1320, followed by a second hole at Site U1319. A third site (Site U1321) was inserted between Sites U1319 and U1320 and drilled using only MWD/LWD. The ship then moved to the overpressured Ursa Basin.

At Brazos-Trinity Basin IV, it was possible to integrate the core data and the LWD/MWD results in a way that enabled reconstruction of basin dynamics and basin fill in space and time. We showed that the resolution of the LWD/MWD and wireline logging data is high enough to allow a bed-by-bed correlation of the basin fill and reconstruct facies distribution with unprecedented precision.

In the Ursa Basin, on advice from EPSP, MWD/LWD operations preceded coring and logging. The MWD/LWD tools included the pressure-while-drilling (PWD) sensor to detect significantly overpressured layers. Three sites were drilled with MWD/LWD in the Ursa Basin. All the sites terminated above the “Blue Horizon,” the known top of hydrocarbon-charged overpressured sediments. At Site U1323, a ~1.5 m thick sand layer (interpreted from natural gamma radiation [NGR] data from the MWD tool) was detected at 204 meters below seafloor (mbsf). Simultaneously, a jump in pressure of 150 psi over the background pressure was observed in the PWD record. This jump in pressure was resolved by pumping 10.5 ppg mud. We then continued to drill ahead, “pumping and dumping” 10.5 ppg mud until a second overpressured interval was detected at 242 mbsf. Although target depth for Site U1323 was 358 mbsf, at this point it was decided that we should plug and abandon the hole to conserve mud and maximize the amount of science. Accordingly, the hole was displaced with 13.5 ppg mud and a free-fall funnel was deployed. After recovering the MWD/LWD tools, the hole was re-entered and displaced with 14.0 ppg cement, leaving a 100 m plug. Observations with the vibration-isolated television (VIT) camera showed no evidence of fluid flow from the hole. The MWD/LWD program was completed by drilling Site U1324, and the tools and engineers were removed from the *JOIDES Resolution* by the *Emily G* on 20 June 2005.

Logging, including a vertical seismic profile (VSP), coring, and pressure/temperature measurements at Sites U1324 and U1322 proceeded uneventfully. The lithologies encountered range from greenish gray muds to greenish gray clays, with some intervals containing minor amounts of silt. At Site U1322, there is evidence of mass transport of the sediments, most likely slumping. A total of nine T2P and/or Davis-Villinger Temperature-Pressure Probe (DVTP-P) measurements were made at Site U1324 and seven measurements at Site U1322. On 30 June 2005 the *Emily G* made a third and final visit to the *JOIDES Resolution*, bringing catering supplies and additional supplies of attapulgitic (mud). Operations at Site U1322 were completed on 3 July 2005, and the ship began the transit to Panama. No attempt was made to reoccupy Site U1323, in part because the revised maximum depth of penetration, dictated by the overpressured horizons encountered with MWD/LWD, was short of the interval of major scientific interest. The time saved was put into additional temperature and pressure measurements at Site U1322.

**Technology:** Logging and APC/XCB coring operations on Expedition 308 were routine; however, the expedition did require deployment of some nonroutine technology. In the course of operations in the Ursa Basin, the first-ever attempt (within IODP) was made to use MWD/LWD/PWD as a predictive tool for coring and as a means to assess flow of overpressured fluids into the drill hole in real time. This technology was deployed without incident and demonstrated its value at Site U1323, when drilling in Hole U1323A encountered an overpressured sand and annular pressure recorded a sudden and substantial increase. We

confirmed that we can monitor shallow flows, take appropriate action to control flows, and drill ahead under appropriate conditions, provided we have accurate real-time downhole information. This was also the *JOIDES Resolution's* first experience with riserless drilling using weighted mud to stabilize and control downhole pressures. Mud use on the *JOIDES Resolution* is normally limited to pumping small quantities for hole cleaning and stabilizing. In addition, despite some problems with the instruments, the third-party T2P tool and DVTP-P measurements at Sites U1322 and U1324 provided critical data for understanding overpressure and associated fluid flow in the Ursa Basin.

Massive paleolandslides are evident from core and downhole measurements in the Ursa Basin. Determination of pore pressure, rock properties, and overburden stress allow us to predict the potential for slope failure in the present, and allow estimation of conditions that drove previous slope failures. Based on core-log-seismic data integration, very high sedimentation rates were documented in the Ursa Basin, and a close interrelation between slumping, turbidite deposition, and past sea level changes is emergent from the data and observations at Brazos-Trinity Basin IV. In both basins, an extraordinary data set (core, wireline log, and LWD) is available to observe ponded and channelized turbidite systems.

### **IODP-USIO EXPEDITIONS 309 AND 312: SUPERFAST SPREADING RATE CRUST 2 AND 3**

**Expedition Planning:** ODP Leg 206 resulted in the successful construction of the borehole infrastructure required for deep drilling into the oceanic basement. Expeditions 309 and 312 (Superfast Spreading Rate Crust 2 and 3) will return to ODP Hole 1256B with the objective of recovering a complete section through superfast spreading (>200 m/yr) oceanic crust. The precruise meeting for Expeditions 309 and 312 was held on 4 and 5 April 2005.

**Expedition Staffing:** Expedition 309: Expedition Project Manager/Staff Scientist: N. Banerjee; Co-Chief Scientists: D.A.H. Teagle, S. Umino; Logging Staff Scientist: F. Einaudi. Staffing commenced in late April 2005 and was completed in June 2005. Scientific staffing for the expedition (excluding Co-Chief Scientists) included the following IODP membership breakdown: six USSSP, four J-DESC, and seven ECORD participants.

Expedition 312: Expedition Project Manager/Staff Scientist: N. Banerjee; Co-Chief Scientists: S. Miyashita, J. Alt; Logging Staff Scientist: TBD. Staffing is in progress.

**Technology:** From an operational standpoint, Expeditions 309 and 312 will be routine hard rock expeditions. During ODP Leg 206, Hole 1256B was cased into basement and cored 500 m into basement. The hole was left clean and open for further deepening. Expeditions 309 and 312 will deepen Hole 1256B by RCB coring to the maximum depth possible. The hole will be logged with standard tool strings as well as the ultrasonic borehole imager, and a zero-offset VSP experiment will be conducted. Significant microbiological sampling is expected. Cores will be imaged using the Deutsche Montan Technologie GmbH (DMT) scanner, leased with funds provided by USSSP and IODP-UK.

### **IODP-USIO EXPEDITION 311: CASCADIA MARGIN GAS HYDRATES**

**Expedition Planning:** The 25 May 2005 change in the operations schedule added 15 days of operations to Expedition 311, for a total of 37 days of operations. The scheduled expedition will consist of completing a series of sites across the northern Cascadia accretionary prism devoted to improving the understanding of the deep origin of methane, its upward transport, its incorporation in gas hydrate, and its subsequent loss to the seafloor.

LWD/MWD and wireline tool capabilities, operational procedures, real-time data monitoring, and pulsed data frames were discussed in conference calls between IODP-USIO Science Services, Lamont-Doherty Earth Observatory (LDEO), personnel and the Co-Chief Scientists and other USIO staff. Planning meetings involving key participants were held in Houston, Texas (22–23 May 2005), and Mobile, Alabama (during the Expedition 308 port call), in preparation for an extensive program of pressure coring and sampling for gas hydrates using a variety of sampling and imaging techniques that are outside the scope of normal IODP shipboard activities.

**Expedition Staffing:** Expedition Staff Scientist: M. Malone; Co-Chief Scientists: T.S. Collett, M. Riedel; Logging Staff Scientist: G. Guerin. Science staffing was completed in early June 2005. Scientific staffing for the expedition (excluding Co-Chief Scientists) included the following IODP membership breakdown: six USSSP, seven J-DESC, and six ECORD participants and one IODP-China participant.

**Clearance and Permitting Activities:** Since the Expedition 311 sites fall in Canadian waters, a clearance request has been submitted to Canada. This was updated in June 2005 to reflect the change in the operations schedule. No response had been received as of the end of the reporting period.

**Technology:** Primary tools will include APC and XCB coring, pressure coring with both the TAMU pressure core system and the HYACINTH pressure CORE SYSTEMS (Fugro Pressure Corer [FPC] and HYACE Rotary Corer [HRC]), LWD, and two zero-offset VSPs. Significant sampling for gas hydrates and microbiology is anticipated, for which we will need to install two temporary laboratory vans on the *JOIDES Resolution*. Funding for the use and deployment of the HYACINTH tool systems and the deployment of temporary laboratory vans, is being provided through the JOI Cooperative Agreement with the U.S. Department of Energy's National Energy Technology Laboratory (DOE-NETL).

Expedition 311 will require the following special adaptations for pressure coring tools to meet science objectives:

1. A 3 m vertical ice bath is being designed that will be mounted in the moonpool and positioned in-line with the core barrel shucks. The bath, consisting of an ice-filled, insulated 10<sup>3</sup>/<sub>4</sub> inch casing, will be mounted on tracks welded to the moonpool doors. When a pressurized core barrel is recovered on deck it will be stowed in the ice bath shuck.
2. Special aluminum core barrels and pressure housings are being fabricated for the IODP pressure core sampler (PCS) to allow X-ray logging under pressure.
3. A special boom crane is being acquired to quickly and safely lift pressurized cores from the rig floor to the reefer van on top of the lab stack.

## **STATUS OF EQUIPMENT**

### **IODP EQUIPMENT**

Software upgrades for the new wireline heave compensation system were completed during the reporting period, and extensive development efforts continue. The new unit will not be used as the primary heave compensator until tuning is fully complete. The response of the new compensator is being analyzed in comparison to the existing ODP-vintage compensator.

Downhole tool maintenance and recalibration was performed on IODP-USIO Science Services, LDEO, and Schlumberger tools.



## TECHNOLOGY DEVELOPMENT

### PROJECTS AND OTHER ACTIVITIES

#### IODP-USIO SCIENCE SERVICES, TAMU, ENGINEERING SERVICES

**Low Profile Reentry System:** With the cancellation of the Monterey Borehole Observatories expedition (formerly Expedition 312), the collaborative work between Monterey Bay Aquarium Research Institute (MBARI) and IODP-USIO Science Services, TAMU, was temporarily suspended. The design of the seafloor structure for the completions at proposed Sites MBTS-03A and MBTS-05A were frozen at a ready-to-manufacture state. The design documentation has been archived for ready reference in the event of an IODP Phase 2 expedition.

**Drilling Sensor Sub (DSS) and Retrievable Memory Module (RMM):** The two DSS tools and an RMM were shipped to Schlumberger's test facility in Sugar Land, Texas. The drilling portion of the acceptance test was conducted at Schlumberger's Genesis test rig on 10 and 11 June 2005. The bottom-hole assembly (BHA) was configured for drop deployment of the RMM. The RMM performed well, and the inductive transmission was successful during drilling. All data acquired by the DSS were captured by the RMM. However, the DSS weight-on-bit (WOB)/torque-on-bit (TOB) data stream failed halfway through the test. The scheduled rig time elapsed before the second tool could be run. After the test, both DSS tools had signal problems with the WOB/TOB measurements. The DSS tools will be shipped back to APS Technologies for analysis and repair, and the acceptance testing will be repeated.

**Temperature-Dual-Pressure (T2P) Tool—Support for Third-Party Tool:** The T2P is being developed by Pennsylvania State University and Massachusetts Institute of Technology (MIT). IODP-USIO Science Services, TAMU, provided the physical interface between the T2P probe unit and the DVTP electronics pressure housing and integrated the Instrumented Water Sampler (IWS) data logger and operating software with the T2P sensor package. The development of the prototype tool was expedited so that it would be available for use on Expedition 308 (Gulf of Mexico Hydrogeology). An IODP-USIO Science Services, TAMU, senior electronics designer supported the operation of the T2P during the expedition and contributed to the design refinements.

#### IODP-USIO SCIENCE SERVICES, TAMU, ANALYTICAL SERVICES

**Maintenance:** The TS Micro program was revised and deployed for the collection of Expedition 309 thin section images, the infrared camera track system deployed on ODP Leg 204 was checked out to ensure functionality for upcoming IODP Expedition 311, and X-ray laboratory Scientech balances were returned to the ship after repair and testing.

**Laboratory Information Management System (LIMS):** The second version of LIMS Editor and LIMS Viewer programs were deployed, and two Web reports were added to the Janus Web queries for LIMS.

**Shipboard Mass Measurement:** The Dual Mettler-Toledo analytical balance system was deployed and is undergoing testing as a possible upgrade to shipboard mass measurement.

**XYZ Core Logger:** Draft designs have been created for the XYZ gantry, and preliminary quotations have been obtained from various vendors.

**Shore-based Instrument Facilities:** Evaluation of the ODP X-ray fluorescence (XRF) spectrometer was completed and an estimate made of the cost to repair. At the instruction of the Deputy Director of Science Services for IODP-USIO Science Services, TAMU, further work is

suspended pending resolution of Ocean Drilling and Sustainable Earth Science (ODASES) funding.

**Automated Vane Shear (AVS):** The AVS was deployed on Expedition 307 for installation and testing. The system was used by Expedition 308 scientists and is available for use on the remaining Phase 1 expeditions.

**BCR Database Connectivity:** Communication issues from BCR to Janus database were resolved to allow more efficient use of the Sampling program.

**Vibration and Motion Study:** Three triaxial accelerometers were procured and deployed aboard ship for an ongoing Phase 1 study of vibration and motion at sea. This information will assist the section in defining specifications for the instrumentation to be used in Phase 2.

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

- **Drilling Sensor Sub (DSS) and Retrievable Memory Module (RMM):** Testing of the DSS tools occurred in June 2005 at the Schlumberger test rig in Houston, Texas. The DSS and RMM were successfully deployed together with mixed results. The test proved that the inductive data link between the DSS and RMM is extremely reliable in field conditions and sensors onboard the RMM worked well. However, WOB and TOB sensors in the DSS were problematic. All data acquired by the DSS were captured by the RMM and downloaded following the deployment. Additional testing of the DSS tools will be required to ensure WOB and TOB sensor accuracy following repair at the manufacturer.
- **Modular High-Temperature Device (MTT):** The redesign and manufacture of the MTT continued during the reporting period. The vendor to provide the high-temperature flask to protect the electronics was selected and the components ordered. The mechanical design is approximately 50% complete. Components that have been designed are presently being machined at the IODP-USIO Science Services, LDEO, machine shop. The software graphical user interface has been completed, and it will greatly improve the operation of this device compared to previous terminal-type interfaces.

## **INFORMATION TECHNOLOGY**

### **INVENTORY MANAGEMENT SYSTEM**

Because of the funding shortages caused by the high cost of marine fuel and the need to provide cost avoidance in the FY05 budget, the asset management system is on hold.

### **VIDEOCONFERENCING SYSTEM**

The videoconferencing system was installed and is currently in use at the three IODP-USIO shore-based facilities and on the *JOIDES Resolution*. Testing and training have begun and will continue through the next quarter.

## **REPORTS/PUBLICATIONS**

### **IODP-USIO PROGRAM PLAN FOR IODP-MI AND NSF**

On 19 April 2005, the JOI Alliance submitted the IODP-USIO FY06 Program Plan to IODP-MI and the National Science Foundation (NSF) for review and evaluation. The draft FY06 Program Plan consists of two expeditions that constitute the remaining science operating costs (SOCs) and platform operating costs (POCs) of IODP Expeditions 311 (Cascadia Margin Gas Hydrates) and 312 (Superfast Spreading Rate Crust 3) as well as requests for continuing SOC shorebased

activities during FY06. The IODP-USIO FY06 Program Plan budget totaled \$21,750,226, with \$11,569,006 requested in SOCs (from IODP-MI) and \$10,181,220 requested in POCs (from NSF).

On 11 May 2005, the JOI Alliance submitted to NSF an appendix to the IODP-USIO FY06 Program Plan that outlines additional requests related to the IODP-USIOP U.S. Systems Integration Contract (SIC), which include activities related to the demobilization of the *JOIDES Resolution* as well as other required tasks.

## **USIO-IODP FY05 IODP QUARTERLY REPORT**

The report for the second quarter of FY05 (January–March 2005) was submitted to NSF on 13 May 2005.

## **IODP SCIENTIFIC PUBLICATIONS**

### **SCIENTIFIC PROSPECTUS**

**Expedition 308 (Gulf of Mexico Hydrogeology):** Published on 27 April 2005 (see “Appendix H”).

**Expeditions 309 and 312 (Superfast Spreading Rate Crust 2 and 3):** Published on 22 June 2005 (see “Appendix H”).

**Expedition 311 (Cascadia Margin Gas Hydrates):** Published on 28 April 2005 (see “Appendix H”).

### **PRELIMINARY REPORT**

**Expedition 304 (Oceanic Core Complex Formation, Atlantis Massif):** Published on 5 April 2005 (see “Appendix H”).

**Expedition 305 (Ocean Core Complex Formation, Atlantis Massif):** Published on 16 May 2005 (see “Appendix H”).

**Expedition 306 (North Atlantic Climate 2):** Published on 21 June 2005 (see “Appendix H”).

### **FIRST POSTCRUISE MEETINGS**

**Expedition 302 (Arctic Coring) First Postcruise Meeting:** Held 28 June–1 July 2005 at IODP-USIO Science Services, TAMU.

**Expedition 303 (North Atlantic Climate):** Held 25–29 April 2005 at IODP-USIO Science Services, TAMU.

**Expeditions 304 and 305 (Oceanic Core Complex Formation, Atlantis Massif):** Held 6–10 June 2005 at IODP-USIO Science Services, TAMU.

## **EDUCATION/OUTREACH**

### **EDUCATION**

Education coordination activities during the reporting period focused on forming partnerships and establishing identity and recognition through conference, port call, and publication-based activities. Specific program activities are also summarized below.

## **MUSEUM AND EDUCATION PARTNERSHIPS AND PROGRAMS**

**Coalition for Earth Science Education:** L. Peart (Director of Education at JOI) attended the 5 April 2005 planning meeting for a fall Coalition for Earth Science Education meeting to facilitate communication between various organizations with an investment in earth science education.

**Macmillan/McGraw-Hill Scientific Publisher:** JOI staff met with professional development directors for McGraw-Hill and Glenco on 22 April 2005 to discuss the possibility of partnering in the production of textbook content, Web-based interactive activities, distance learning, professional development, and other ideas. During the Expedition 308 port call, Macmillan/McGraw-Hill staff toured the *JOIDES Resolution* seeking content and delivery mechanisms for national K–12 and early college publication and professional development programs. (Macmillan/McGraw-Hill is the largest science textbook publisher in the country).

**Center for Ocean Science Education Excellence (COSEE):** Ten teachers recruited through the Central Gulf of Mexico COSEE toured the *JOIDES Resolution* during the Expedition 308 port call. McGraw-Hill staff joined the tour and then conducted a focus group with the teachers to discuss delivery mechanisms, content, and methods for professional development, and textbook content from ocean drilling programs.

**National Ocean Science Bowl (NOSB):** A NOSB team from Cintronelle High School, ~40 miles from Mobile, Alabama, toured the *JOIDES Resolution* during the Expedition 308 port call with an eye toward career awareness.

**National Earth Science Educators Association (NESTA):** During April and May 2005, L. Peart and M. Niemitz (Program Assistant), both of JOI, coordinated writing and editing for the coproduction of the Summer 2005 issue of the NESTA journal, *The Earth Scientist*. Based on the themes of “Hundreds of Cruises, Thousands of People, Endless Discoveries” and “Teaching for Science, Learning for Life,” this issue filled with educational materials designed to provide a taste of IODP’s scientific scope will target the 1000 precollege educators most likely to use the materials. The journal issue is available at [www.joilearning.org](http://www.joilearning.org).

**Smithsonian Museum:** Exhibit designers affiliated with the Natural History Museum toured the *JOIDES Resolution* during the Expedition 308 port call as part of the design process to include drilling program concepts in the Ocean Hall exhibit slated to open in 2008. The exhibit is expected to serve an audience of as many as 6 million visitors per year.

## **TEACHER AT SEA PROGRAM**

The second opportunity to engage a teacher in the riserless drilling program activities was initiated in June 2005 when A. Gelatt was selected to participate in the Teacher at Sea Program for Expedition 309. Gelatt attended a pre-expedition orientation at IODP-USIO Science Services, TAMU, on 30 June and 1 July 2005. During this meeting, Gelatt met with L. Peart of JOI and Ann Klaus (Deputy Director of Data Services) and P. Weiss (Marine Curatorial Specialist [who will serve as Gelatt’s mentor during the cruise]), both of IODP-USIO Science Services, TAMU. Gelatt received an orientation on the scientific objectives of the expedition and developed a plan for his expedition project. Gelatt teaches secondary and college-level geology and environmental sciences and has seagoing experience with the Navy.

## **LABORATORY BRIEFS**

Final proofing of the chemistry and microbiology laboratory briefs and formatting of the physical properties and paleomagnetism laboratory briefs was completed. J. Rice (Expedition 301 Teacher at Sea) also completed the first draft of the underway geophysics laboratory brief

and it was circulated for review by USIO scientific staff. The briefs will be posted under the Education and Outreach > Curriculum Enrichment section of the JOI Alliance Web site (<http://www.iodp-usio.org/Education/Educ.html>).

## **CONFERENCES**

**National Science Teachers Association (NSTA):** In early April 2005, JOI staff attended the NSTA conference and managed the JOI/IODP booth. Conference highlights and achievements included

- personal contact with ~2000 educators through interactions at the booth;
- collection of more than 500 names and demographic data that were used to initiate a new education database and can be used to study the effectiveness of the JOI/IODP booth and distributed materials; and
- participation in the Informal Science Night, which attracted a more focused group of 300 educators through hands-on activities resulting in renewed relationships with NSTA's Informal Science Committee, the Exploratorium, Dragonfly TV, and other education groups.

In addition, M. Leckie (University of Massachusetts, Amherst) presented a talk on ODP/IODP science at Earth Science Resource Day, which was attended by ~70 participants. This event resulted in an invitation for Leckie and JOI to participate in training programs for earth science teachers from Montgomery County, Maryland, and for IODP inclusion in the new Montgomery County curriculum. After the conference, the new education database was initiated and follow-up letters were emailed to more than 500 teachers.

## **HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP**

The JOI Alliance awarded its first HBCU Fellowship to Q. Conyers, an incoming master's student to the Mass Communications and Media Studies Program at Howard University in Washington, D.C. Conyers will be mentored by S. Boa (Director of Communications at JOI) and work on education and outreach activities of the JOI Alliance. The fellowship begins in the fall and will continue for 26 weeks.

## **MINORITIES STRIVING AND PURSUING HIGHER DEGREES OF SUCCESS IN EARTH SYSTEM SCIENCE INITIATIVE**

In May 2005, the JOI Alliance provided partial funding for A. Castner (Executive Program Associate at JOI) to take five students participating in the Minorities Striving and Pursuing Higher Degrees of Success in the Earth Systems Science (MS PHD'S) Program and the Program Director to the IODP Science Steering and Evaluation Panel (SSEPs) Meeting held in Shanghai, China. The group was composed of graduate students from University of Connecticut, College of William and Mary's Virginia Institute of Marine Science, and the Universidad Metropolitana, Puerto Rico, and undergraduate students from the University of Houston and the University of South Carolina.

During the meeting, the students engaged in activities that contributed to their professional development, including reading three full proposals that were reviewed by the panel and discussing them prior to the meeting with JOI staff; observing the panel's proposal review discussions; debriefing their observations and lessons learned each day with panel members serving as meeting mentors; participating in the ancillary activities planned for the panel, including a field excursion and lab tour; and networking with international scientists serving on

the panel. At the conclusion of the meeting business, the students made a presentation to the panel on their experience and what they learned by observing the panel meeting.

### **INVENTORY AND EVALUATION**

With four classroom activities, three new posters, three career briefs, and four laboratory briefs produced or nearly completed, it is time to evaluate the effectiveness of these new approaches and materials. Collaborating with USSSP education efforts, the USIO has begun to draft a request for proposal (RFP) to solicit an outside evaluator. In addition, on 22 and 23 June 2005, M. Niemitz of JOI surveyed 47 teachers on the existing CD-ROM interactive learning programs during an in-service workshop conducted by K. St. John of James Madison University.

Efforts also continue at a low level to inventory teaching and education materials produced by community members. Twenty drilling program-related educational materials have been identified. The new JOI intern who begins work on this project during the upcoming quarter will be conducting a more thorough inventory.

### **PUBLIC AFFAIRS**

Emphasis this quarter was placed on activities to develop communication efforts that will streamline and clarify the USIO's messages, visual identity, and media presence. Specific activities included

- Developing a unified IODP-USIO message to ensure USIO's goals are well represented and articulated in communications and outreach activities.
- Contracting with a design firm to develop coherent visual identity for outreach materials (brochures, fact sheets, press kits, etc).
- Streamlining internal procedures to revise media databases and increase exposure to wider audiences.

### **PUBLIC RELATIONS MATERIALS**

News releases are distributed to more than 100 science journalists worldwide, as well as member country offices. News releases distributed during this quarter included

- IODP expedition uncovers key information on Earth's interior (6 April 2005)
- Scientists aboard drilling vessel recover rocks from Earth's crust far below seafloor (6 April 2005)
- Ireland to announce its membership in European consortium (12 April 2005)

News articles, programs, media citations, or public commentary related to IODP expeditions involving the riserless platform published during this quarter include

- Britt, R.R., 2005. Hole drilled to bottom of Earth's crust, breakthrough to mantle looms. *Live Science*, 7 April 2005. [http://www.livescience.com/technology/050407\\_earth\\_drill.html](http://www.livescience.com/technology/050407_earth_drill.html). [A link to this story was featured on DrudgeReport.com on 7 April 2005.]
- NBC, 11 April 2005. The Tonight Show with Jay Leno.
- NPR, 15 April 2005. Program aims for deep drilling into ocean floor (includes an interview with J. Miller of IODP-USIO Science Services, TAMU). *Talk of the Nation/Science Friday*. <http://www.npr.org/templates/story/story.php?storyId=4602306>.
- NBC, 16 April 2005. Saturday Night Live.

- MSNBC, 15 June 2005. COUNTDOWN: Mr. Asahiko Taira, the Director General of the Center for Deep Earth Exploration in Yokohama in Japan, is seeking to predict and understand earthquakes and look for life inside it—he’s leading a team that’s going to drill a hole through the earth’s crust and into the mantle.
- About.com, 2005. The greatest science program known to history. *About.com*. <http://geology.about.com/cs/escibasics/a/aa101203a.htm>.

Materials specifically related to the Expedition 307 port call in Dublin, Ireland (25–29 April 2005) included

- RTE Radio 1, 2005. *Seascapes*. 28 April 2005 and 5 May 2005. [RTE Radio 1 is the main Irish news/current affairs/business station.]
- RTE Television, 1 May 2005. *Evening News Bulletins*.
- Irish Times, 2005. Historic drilling of the Irish seabed. *Irish Times*, 21 April 2005
- Irish Times, 2005. News briefs. *Irish Times*, 28 April 2005. [This short news brief on Ireland joining IODP included a photo of N. Dempsey, Irish Minister for Communications, Marine and Natural Resources, boarding the *JOIDES Resolution*.]
- Inshore Ireland, 2005. Ireland embraces prestigious international deep sea research programme. *Inshore Ireland*, April 2005.
- Science Spin Magazine, 2005. Ireland’s cold water corals. *Science Spin Magazine*, May 2005: Issue 10.
- Irish Skipper, 2005. Ireland teams up with exciting global deep sea programme. *Irish Skipper*, June 2005.

Materials specifically related to the Expedition 308 port call in Mobile, Alabama (30 May–4 June 2005), included

- Mobile Register, 3 June 2005. Odd ship here for Gulf study.
- WLOX ABC-13, 1 June 2005. Ship drills ocean floor to learn Earth’s history and future. <http://www.wlox.com/Global/story.asp?s=3424356>. [Website and news broadcast]
- WALA Fox 10, 1 June 2005. Late night news broadcast.
- Clear Channel Radio, 4 and 5 June 2005. Weekend news update.
- Alabama Public TV/Radio, 1 June 2005. Late night news broadcast.
- WPMI NBC-TV 15, 1 June 2005. Late night news broadcast.

### **CONGRESSIONAL OUTREACH**

On 10 and 11 May 2005, as part of the tenth Congressional Visits Day, the USIO sponsored and coordinated participation from U.S. Science Advisory Committee (USSAC) members H. Tobin (New Mexico Institute of Mining and Technology) and W. Sager (TAMU), who visited several congressional offices to talk about the importance and impact of scientific ocean drilling.

On 21 June 2005, the USIO cosponsored Science @ Work, the 11<sup>th</sup> Annual Coalition for National Science Funding Exhibition and Reception on Capitol Hill in Washington, D.C. Eleven members of Congress attended. USIO funds were used to cosponsor the reception.

## **IODP-USIO BROCHURE**

A second edition of the IODP-USIO Phase 1 brochure was published in May 2005. Designed to highlight the extended expedition schedule for nonscientist audiences (public, media, and students), the brochure was distributed at the Expedition 308 port call and will be used through December 2005.

## **PORT CALL OUTREACH**

**Expedition 308:** The IODP-USIO worked with the IODP-MI office, ECORD staff, and the Geological Society of Ireland to coordinate media activities at the Expedition 308 port call in Dublin, Ireland (25–29 April 2005). The timing of this port call in Ireland was marked by the announcement that Ireland would officially join ECORD as a supporting member of IODP. This announcement was made by N. Dempsey at a press conference aboard the *JOIDES Resolution*. The press conference was attended by 15 members of the Irish media, including representatives from both major Irish newspapers. P. McArdle (Director of the Geological Survey of Ireland), J. Bjorck (ECORD Chair), and J.-P. Henriot (professor at the Renard Centre of Marine Geology) also spoke about Ireland's involvement in IODP and the upcoming research expedition in Irish waters. T. MacSweeney (marine correspondent for the National News) came aboard the ship and interviewed C. Alvarez Zakarian (Expedition 306 Staff Scientist) and J. Fox (Director), both of IODP-USIO Science Services, TAMU; and P. Mowat (captain of the ship). In addition, more than 50 local scientists toured the vessel and a seminar and reception were held at the Geological Survey of Ireland headquarters to highlight the ship's visit to Dublin and the first drilling operation in Irish waters. Resulting press is detailed above.

**Expedition 309:** IODP-USIO worked with the IODP-MI office and the TAMU Office of University Relations to plan and execute port call activities in Mobile, Alabama, on 1 and 2 June 2005. More than 35 local media outlets were contacted by fax, e-mail, or phone and invited to see the *JOIDES Resolution*. Four television news cameras, one radio outlet, and a photographer from the local newspaper toured the ship. Resulting media coverage is detailed above.

## **IODP-USIO WEB SITE**

### **ACCESSIBILITY**

The IODP-USIO Science Services, TAMU, portion of the Web site needs to comply with state of Texas and TAMU Web accessibility standards. In May 2005 the IODP-USIO Science Services, TAMU, Webmaster circulated accessibility materials and in June 2005 had discussions with staff to provide information on these requirements. The IODP-USIO Science Services, TAMU, Webmaster is revising the Web site to comply with accessibility rules, and JOI and IODP-USIO Science Services, LDEO, are assessing if similar standards may be applicable to their portions of the site.

### **ODP LEGACY WEB SITE**

JOI and IODP-USIO Science Services, TAMU, staff members have been developing the architecture of the ODP Legacy site. The inventory of files is almost complete and conversion to PDF format is in process. The site design has been finalized, and HTML pages will be created and populated during the fourth quarter.

### **IODP DATABASES**

**Janus Database:** Data from Expeditions 301–307 are available online under moratorium.



**Log Database:** Data from Expeditions 301–308 are available online under moratorium. The online presentation mimics the ODP presentation in the general format, with some changes in the documentation templates such as the inclusion of summary tables and active links. The online data include standard data (nonimage), high-resolution data (nonimage), image data, sonic waveform data (SWF), and related documentation.

**Processed Logs:** Log data have been processed and put online under moratorium (with accompanying documentation) for the following holes:

Hole U1313B: Expedition 306  
Hole 642E (re-entry): Expedition 306  
Hole U1316C: Expedition 307  
Hole U1317D: Expedition 307  
Hole U1318B: Expedition 307  
Hole U1319B: Expedition 308  
Hole U1320A: Expedition 308  
Hole U1320B: Expedition 308  
Hole U1321A: Expedition 308  
Hole U1322A: Expedition 308  
Hole U1323A: Expedition 308  
Hole U1324A: Expedition 308

## **IODP-USIO SUPPORT ACTIVITIES**

### **INTERACTIONS WITH IODP-MI AND IODP IMPLEMENTING ORGANIZATIONS IODP-MI SITE VISIT TO IODP-USIO SCIENCE SERVICES, LDEO**

IODP-USIO Science Services, LDEO, hosted a visit on 20 April 2005 from H.C. Larsen (Vice President of Science Planning for IODP-MI) to review the USIO log database and core-log-seismic integration capabilities.

### **ECORD SCIENCE OPERATOR (ESO)/USIO MEETINGS**

D. Goldberg (Director of IODP-USIO Science Services, LDEO) reviewed joint USIO-ESO operations for New Jersey Margin LWD operations with T. Brewer (Chief Logging Scientist, ESO).

### **IODP-MI DATA MANAGEMENT COORDINATION GROUP MEETING**

The third IODP Data Management Coordination Group (DMCG) meeting was held in Edinburgh, Scotland on 27–30 June 2005. P. Blum (Supervisor of Analytical Services) and R. Mithal (Supervisor of Databases and Services), both of IODP-USIO Science Services, TAMU, attended as regular DMCG liaisons. Ann Klaus (Deputy Director of Data Services) and J. Firth (Curator), both of IODP-USIO Science Services, TAMU, attended because data management issues related to core curation and analysis in multiple repositories were a main agenda item. F. Rack (Director, Ocean Drilling Programs) of JOI attended as an observer. The group received presentations on the current status of the Implementing Organizations' (IOs) data management systems, progress with coordination tasks, the PANGAEA geoscience data portal (M. Diepenbroeck, Managing Director, World Data Center for Marine Environmental Sciences [WDC-MARE]), and the Climate and Cryosphere Portal (B. Miville, Data Management Specialist, IODP-MI Sapporo). An action item list was generated for the continued development of an IODP discovery metadatabase and the IODP data portal at IODP-MI. The future of IODP

software tool development was discussed extensively; future tools are required to be interoperable, portable, open source, and community accessible. A list was established of tools that should be developed jointly within IODP. The first IODP software tool requirements document will be generated for an IODP Curation application for managing all aspects of core sample data management. The DMCG will next meet during the Expedition 311 transit (28 August–14 September 2005) from Balboa, Panama, to Astoria, Oregon, for the J-CORES Test.

In addition to the main meeting, the invited curatorial representatives J. Firth (IODP-USIO Science Services, TAMU), K. Kuroki (Chief of Science Support, Center for Deep Earth Exploration [CDEX]), and W. Hale (BCR Repository Superintendent, University of Bremen) met with H.C. Larsen (IODP-MI Sapporo), T. Janecek (Vice President of Operations for IODP-MI), and Ann Klaus (IODP-USIO Science Services, TAMU) to (a) continue refining the draft of the IODP Sample, Data, and Obligations Policy that will replace the interim policy and (b) to discuss data management issues related to curation, including roles and responsibilities of the IO curators during expeditions and at repositories; definition of moratorium; management of joint expeditions related to sampling parties, moratorium, and publications; and sample request procedures.

#### **IODP-MI/IO PUBLICATIONS TASK FORCE STAFF MEETINGS**

On 11 May 2005 and 7 June 2005, the IO and IODP-MI members of the Publications Task Force and IODP-USIO Science Services, TAMU, Publication Services staff members met via videoconferencing to review the IODP publications scheme and discuss details related to design and production of the first *Proceedings of the Integrated Ocean Drilling Program* volumes. On 26 June 2005, Ann Klaus of IODP-USIO Science Services, TAMU, met with H.C. Larsen and M. Soeding (Publication, Sample and Data Integration Manager), both of IODP-MI Sapporo, to continue discussions from the task force meetings.

#### **OPERATIONAL TASK FORCE (OTF) MEETING**

The OTF (formerly OPCOM) met in March 2005 to review current operations and develop strategies for future operations. Discussions centered on the needs to have ~18 months of lead time for expedition planning, as well as to identify specific expeditions in adequate time to incorporate actual budgets into the annual program plan. To achieve this strategy, future schedules will include specific expeditions to be scheduled and budgeted for the upcoming fiscal year and the identification of complex programs that would be implemented in subsequent years.

Ancillary program letters (APLs) were also discussed, with the recognition that the APL strategy requires significant modification as presently there is no coherent policy/procedure that is routinely followed. Two types of APLs include (a) quick response to excellent nonexpedition-related science and (b) add-ons to expeditions after scheduled were identified. It was noted that, although flexibility is essential, incorporation of APLs into any fiscal year requires that APLs be identified and accepted during the budget process.

Updates of the current USIO operations were reviewed for Expeditions 306–312, with identification of critical issues such as contingencies for Expedition 308 (Gulf of Mexico Hydrogeology) and Expeditions 309 and 312 (Superfast Spreading Rate Crust 2 and 3). These issues were forwarded to Science Planning Committee (SPC) for discussion and recommendations.

## **COMMUNICATIONS INTERACTIONS WITH IODP-MI**

IODP-USIO Science Services, TAMU, and IODP-MI communications staff began discussions to define roles and responsibilities for outreach at port calls and following expeditions. Discussions are ongoing and should be resolved during the coming quarter.

## **APPENDIX A: CONTRACTUAL ACTIVITIES**

### **JOI**

#### **NSF CONTRACT OCE-0352500 WITH JOI**

JOI received the following modifications during the report period:

- Modification 11: provided \$6,079,513 in funding toward the Scientific Ocean Drilling Vessel (SODV) Major Research Equipment and Facilities Construction (MREFC) and \$5,000,000 for SIC activities, approving the FY05 Program Plan, the FY05 SIC budget, the SODV Project Execution Plan, and the SODV Work Plan.

#### **JOI SUBCONTRACT #JSC 4-02 WITH TAMRF**

JOI issued the following modifications during the report period. Both modifications are under review by Texas A&M Research Foundation (TAMRF) and have not yet been signed.

- Modification 8: approved the FY05 Program Plan in the amount of \$45,482,029 and provided \$5,000,000 for POC operations and \$6,320,232 for SOC operations.
- Modification 9: divided the entire subcontract between POCs and SOCs.

#### **JOI SUBCONTRACT #JSC 4-03 WITH LDEO**

JOI issued the following modifications during the report period. Modifications 7 and 8 are under review by LDEO and have not yet been signed:

- Modification 6: provided \$64,831.00 funding for POC operations.
- Modification 7: approved the FY05 Program Plan in the amount of \$7,307,170 and provided funds in the amount of \$3,213,017 to be applied to the SOC portion and \$82,012 to the POC portion of the FY05 Program Plan.
- Modification 8: divided the entire subcontract between POCs and SOCs.

#### **IODP-MI SUBCONTRACT #IODP-MI-05-03 WITH JOI**

IODP-MI issued the following subcontract and modification during the report period.

- Initial Contract: provided \$152,056,429 for “Science Operations Activities” with the JOI Alliance for IODP through 2013.
- Modification 1: increased the estimated cost for FY05 from \$9,759,724 to \$11,085,464 because of reconciliation adjustments associated with the separate accounting for SOCs in FY05 between the NSF contract (prior to 1 April 2005) and the new IODP-MI contract.

### **LDEO**

#### **LDEO SUBCONTRACT NEGOTIATIONS**

The MREFC subcontract negotiations are still in process. It is anticipated that the subcontract will be signed the first part of July 2005.

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

- Modification 6: provided \$64,831 toward POCs for the FY05 Program Plan. Total funding to date was \$6,000,516.
- Modification 7: approved a Program Plan amount of \$7,307,170, giving incremental funding of \$3,213,017 to SOCs and \$82,012 to POCs. Total funding increased to \$9,295,545.

## **TAMRF/TAMU**

### **TAMRF SUBCONTRACT WITH ODL**

- Amendment 5: to incorporate the NSF indemnification and provide incremental funding.
- Authorization to Proceed: provided authorization to issue an award to Catermar Group, Houston, for catering services through the end of Phase 1. The Catermar Group award was based on adequate competition.

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

- Modification 7: to provide SOC and POC funding and revise to Clause H.13.
- Modification 8: to provide additional funding for SOCs and POCs.
- Modification 9: to segregate SOC and POC activities and costs. Modification 9 is still under negotiation.

MREFC subcontract negotiations are still in process. It is anticipated that the subcontract will be signed the first part of July 2005.

TAMRF forwarded the following requests for approval to JOI:

- 29 April 2005: to purchase drilling fluids for Expedition 308 in the amount of \$186,705.

The following purchase orders were issued:

- CBC Workboats, Inc., for \$150,260 for a vessel charter.

### **OTHER CONTRACTS/PROCUREMENT ACTIVITY**

TAMRF continued working on tasks associated with securing a drillship for IODP Phase 2 operations.

### **MISCELLANEOUS ACTIVITY**

- 29 April 2005: submitted to JOI the first FY05 294 Small Business Report.

## APPENDIX B: FINANCE REPORT

Please contact [info@joiscience.org](mailto:info@joiscience.org) for hard copies of financial pages.

## **APPENDIX C: PERSONNEL STATUS**

### **JOI**

Position titles were reclassified on 19 May 2005 for the following personnel:

- M. Cortes from USSSP Senior Program Associate to IODP-USIO Senior Program Associate

The following positions were opened and advertised during the quarter:

- Webmaster
- Cost and Schedule Coordinator
- Technical Program Associate
- Manager of Meetings and Administration
- Communications Program Associate
- Senior Program Associate, Ocean Drilling Programs

The following positions were filled during the quarter:

- Manager of Meetings and Administration (Amy Page): 25 April 2005
- Communications Program Associate (Jon Corsiglia): 20 June 2005

### **LDEO**

Yue-Feng Sun resigned to pursue other opportunities. The search for his replacement will begin during the next quarter.

Dan Quoidbach completed his contract with the LDEO Site Survey Databank (SSDB) on 30 June 2005 and will begin work at LDEO-BRG on 1 July 2005.

The following positions were advertised during the quarter:

- Logging Staff Scientist

The following positions were filled during the quarter:

- Logging Staff Scientist (Jenny Inwood): 1 May 2005 (this position is with the University of Leicester subcontractor)

### **TAMU**

The following positions were advertised during the quarter:

- Manager of Tools and Analytical Services
- Senior Systems Administrator (3)
- Laboratory Specialist I (2)

The following positions were filled or canceled during the quarter:

- Laboratory Specialist I (Denise Hudson): 11 April 2005
- Editor (Shana Smith): 13 April 2005
- Engineer (Robert Aduddell): 18 April 2005

- Human Resources Representative (Cynthia Escamilla): 13 June 2005
- Graphics Specialist II (Patrick Edwards): 14 June 2005
- Supervisor of Project Accounting (Angela Brown): 23 June 2005
- Publications Specialist: Canceled

## APPENDIX D: CONFERENCE AND MEETING SCHEDULE\*

Conference/Meeting	Date	Location
Science Steering and Evaluation Panel (SSEP)	16–19 May 2005	Shanghai, China
Science Planning and Policy Oversight Committee (SPPOC)	15 and 16 June 2005	Nagasaki, Japan
Environmental Protection and Safety Panel (EPSP)	27 and 28 June 2005	Edinburgh, Scotland
Operations Task Force (OTF)	29 and 30 June 2005	Edinburgh, Scotland

\* External meetings and conferences.

## APPENDIX E: TRAVEL\*

Institution	Personnel	Purpose	Date	Location
JOI	K. Kryc, S. Williams	SODV Project Visit to CDEX and the <i>Chikyu</i>	16–22 April 2005	Yokohama and Nagasaki, Japan
JOI	K. Kryc	Offshore Technology Conference	4 and 5 May 2005	Houston, TX
JOI	F. Rack	International Gas Hydrate Workshop	8–12 May 2005	Victoria, British Columbia, Canada
JOI	F. Rack	Manager's Meeting	12–15 May 2005	College Station, TX
JOI	F. Rack	JASMT Meeting	15–18 May 2005	Palisades, NY
JOI	A. Castner	SSEP Meeting	16–20 May 2005	Shanghai, China
JOI	F. Rack	IODP-MI Industry Workshop	18–22 May 2005	Houston, TX
JOI	K. Kryc	JTT Meeting	20 May 2005	Palisades, NY
JOI	S. Boa, K. Kryc, M. Niemitz, L. Peart	Expedition 308 Port Call	30 May–4 June 2005	Mobile, AL
JOI	F. Rack	IODP Membership Discussion–Directorate General of Hydrocarbons	7–12 June 2005	Delhi, India
JOI	F. Rack	SPPOC Meeting	12–17 June 2005	Nagasaki, Japan
JOI	F. Rack	IEEE Data Inter-Operability	18–25 June 2005	Cagliari, Italy
JOI	F. Rack	EPSP Meeting and OTF Meeting	27–30 June 2005	Edinburgh, Scotland
LDEO (LGHF)	F. Einaudi	Expedition 309 Precruise Meeting	4 and 5 April 2005	College Station, TX
LDEO	G. Myers	SODV Source Selection Panel Meeting	4 and 5 April 2005	College Station, TX
LDEO	D. Goldberg	JASIT/JASMT Meetings	5 April 2005	Washington, DC
LDEO	T. Williams	Expedition 307 Precruise Meeting	22 and 23 April 2005	Ghent, Belgium
LDEO (LGHF)	F. Einaudi	EUG Meeting	24–29 April 2005	Vienna, Austria
LDEO	T. Williams	Expedition 307 Precruise Workshop	25 and 26 April 2005	Dublin, Ireland
LDEO	G. Guerin	Expedition 307 Port Call	26–29 April 2005	Dublin, Ireland
LDEO	T. Baker	inSORS Meeting	27–29 April 2005	Dublin, Ireland
LDEO	G. Guerin, G. Iturrino, G. Myers	LWD Planning Meeting	13 May 2005	Lafayette, LA
LDEO	G. Iturrino	SSEP Meeting	15–20 May 2005	Shanghai, China



Institution	Personnel	Purpose	Date	Location
LDEO (LUBR)	M. Reichow	Logging Training	23–30 May 2005	Palisades, NY
LDEO (Aachen)	M. Linek	German Magnetometer Deployment Debriefing	26 and 27 May 2005	Göttingen, Germany
LDEO	G. Guerin, G. Myers	Expedition 308 Port Call	29 May–4 June 2005	Mobile, AL
LDEO (LGHF)	F. Einaudi	Expedition 304/305 Sampling and First Postcruise Meeting	30 May–10 June 2005	College Station, TX
LDEO (LUBR)	H. Delius	Expedition 305 First Postcruise Meeting	6–10 June 2005	College Station, TX
LDEO	W. Keogh, W. Masterson	DSS and RMM Testing	9–12 June 2005	Houston, TX
LDEO (LGHF)	F. Einaudi	Postcruise Debriefing	13–15 June 2005	Palisades, NY
LDEO	D. Goldberg, S. Higgins, G. Myers	JOI-MREFC Meeting	22 June 2005	Washington, DC
LDEO	D. Goldberg	SPWLA Conference	27–29 June 2005	New Orleans, LA
LDEO	M. Reagan	OTF Meeting	29 and 30 June 2005	Edinburgh, Scotland
TAMU	J. Fox	JASIT/JASMT Meetings	4–6 April 2005	Washington, DC
TAMRF	B. Lancaster	Earned Value Management Training	4–14 April 2005	Vienna, VA
TAMU	C. John	Staff Scientist Training	10–15 April 2005	College Station, TX
TAMU	R. Mithal	ICN Seminar on Negotiation	11–13 April 2005	Dallas, TX
TAMU	J. Gracia	Allen Press Electronic Publishing Seminar	11–14 April 2005	Washington, DC
TAMU	K. Hillis	Houston Passport Office	12 April 2005	Houston, TX
TAMU	D. Hudson	Houston Passport Office	13 and 14 April 2005	Houston, TX
TAMU	S. Midgley	SODV Project Visit to CDEX and the <i>Chikyu</i>	15–22 April 2005	Nagasaki, Japan
TAMU	W. Mills	SODV Project Visit to CDEX and the <i>Chikyu</i>	15–22 April 2005	Nagasaki, Japan
TAMU	L. Obee	Expedition 307 Port Call	19 April–2 May 2005	Dublin, Ireland
TAMU	G. Lowe	Expedition 308 First Postcruise Meeting	20 April–3 May 2005	College Station, TX
TAMU	J. Whitfield	Delivery to Panalpina	20 April 2005	Houston, TX
TAMU	J. Beck	Expedition 307 Port Call	23–30 April 2005	Dublin, Ireland
TAMU	J. Fox	Expedition 307 Port Call	23 April–2 May 2005	Dublin, Ireland
TAMU	P. Gates	Expedition 307 Port Call	23 April–3 May 2005	Dublin, Ireland
TAMU	B. Julson	Expedition 307 Port Call	23 April–1 May 2005	Dublin, Ireland
TAMU	T. Davies	Expedition 307 Port Call	24–30 April 2005	Dublin, Ireland
TAMU	Adam Klaus	Houston Passport Office	25 April 2005	Houston, TX
TAMU	R. Mitchell	Expedition 308 Port Call	25 April–6 May 2005	Mobile, AL
TAMRF	C. Engledow	23rd Annual Congress American Payroll Assoc.	30 April–5 May 2005	San Diego, CA
TAMU	L. Chen, P. Thompson	Offshore Technology Conference	3 May 2005	Houston, TX
TAMU	B. Aduddell, K. Grigar, S. Midgley, W. Mills	Offshore Technology Conference	4 May 2005	Houston, TX
TAMU	J. Fox	IODP Presentation to Houston A&M Club	9 May 2005	Houston, TX
TAMU	K. Petronotis	Accessibility/Designing Web Sites Training Course	11 May 2005	Sacramento, CA
TAMU	B. Aduddell	Meeting with Schlumberger	12 May 2005	Houston, TX
TAMU	K. Grigar	DSS Testing Meeting	12 May 2005	Sugar Land, TX
TAMU	Adam Klaus	SSEP Meeting	13–19 May 2005	Shanghai, China
TAMU	P. Thompson	Expedition 307 Port Call	13–17 May 2005	Ponta Delgada, Azores, Portugal

<b>Institution</b>	<b>Personnel</b>	<b>Purpose</b>	<b>Date</b>	<b>Location</b>
TAMU	J. Fox	LDEO and JASMT Meetings	14–18 May 2005	Newark, NJ
TAMU	D. Ponzio	SAM Summit '05 conference and workshop	14–19 May 2005	Santa Monica, CA
TAMU	D. Becker, P. Gates	Gartner Symposium ITxpo	15–20 May 2005	San Francisco, CA
TAMU	S. Midgley, W. Mills	Project Management Course	16–18 May 2005	Houston, TX
TAMU	T. Davies	Expedition 308 Meeting with Shell	18 May 2005	Houston, TX
TAMU	M. Malone	Expedition 303 Sampling Party	21–30 May 2005	Bremen, Germany
TAMU	K. Grigar, B. Julson, L. Obee, M. Storms	Expedition 311 Precruise Meeting	22–23 May 2005	Houston, TX
TAMU	J. Fox	Present Lecture at UCSB	25–27 May 2005	Santa Barbara, CA
TAMU	T. Cobine, P. Teniere	Inspection of GeoTek IR system	27 May 2005	Houston, TX
TAMU	J. Baldauf, B. Julson	Expedition 308 Port Call	29 May–5 June 2005	Mobile, AL
TAMU	D. Becker	Expedition 308 Port Call	30 May–4 June 2005	Mobile, AL
TAMU	M. Malone	Expedition 308 Port Call	30 May–1 June 2005	Mobile, AL
TAMU	B. Aduddell	Expedition 308 Port Call	31 May–2 June 2005	Mobile, AL
TAMU	K. Petronotis	Expedition 304/305 First Postcruise Meeting	31 May–11 June 2005	College Station, TX
TAMU	M. Storms	Expedition 308 Port Call	31 May–3 June 2005	Mobile, AL
TAMU	J. Fox	Expedition 308 Port Call	1 and 2 June 2005	Mobile, AL
TAMRF	K. Johnson, R. McPherson	Insurance Meeting in London	3–10 June 2005	London, England
TAMRF	T. Salamone	Property Seminar	5–11 June 2005	Las Vegas, NV
TAMU	P. Thompson	Facilitate MWD Transfer for Expedition 308	5–12 June 2005	New Orleans, LA
TAMU	P. Thompson	Expedition 308 Workboat Project	7–13 June 2005	Mobile, AL
TAMU	N. Banerjee	Staff Scientist Training	8–15 June 2005	College Station, TX
TAMU	B. Aduddell	DSS and RMM Testing	9–11 June 2005	Sugar Land, TX
TAMU	K. Grigar	DSS and RMM Testing	11 June 2005	Sugar Land, TX
TAMU	J. Fox	SPPOC Meeting	12–18 June 2005	San Jose, CA
TAMU	L. Obee	Hazardous Materials Training	12–18 June 2005	Seattle, WA
TAMU	J. Stone	Oracle Training	12–18 June 2005	Chicago, IL
TAMU	B. Aduddell	DSS Test Completion	13 June 2005	Sugar Land, TX
TAMU	C. Hughes	Microsoft Excel Training Seminar	13–16 June 2005	Las Vegas, NV
TAMU	R. McGehee	Delivery for Logistics	16 and 17 June 2005	New Orleans, LA
TAMU	P. Thompson	Expedition 308 Workboat Project	17–21 June 2005	Port Fourchon, LA
TAMU	G. Lowe	FrameMaker Training; Visit to JOI Offices	19–23 June 2005	Alexandria, VA
TAMU	R. Mitchell	Demobilization Reconnaissance	22–23 June 2005	Galveston, TX
TAMU	J. Baldauf	EPSP and OTF Meetings	24 June–1 July 2005	Edinburgh, Scotland
TAMU	Ann Klaus	IODP-MI Data Management Meeting	24–29 June 2005	Edinburgh, Scotland
TAMU	P. Blum	IODP-MI Data Management Meeting	25 June–1 July 2005	Edinburgh, Scotland
TAMU	J. Firth	IODP-MI Data Management Meeting	25–30 June 2005	Edinburgh, Scotland
TAMU	R. Mithal	IODP-MI Data Management Meeting	25–30 June 2005	Edinburgh, Scotland

Institution	Personnel	Purpose	Date	Location
TAMU	J. Fox	SAFOD Executive Board Meeting	28 June–1 July 2005	San Jose, CA

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

## APPENDIX F: DATA REQUESTS

Top 10 Countries Accessing Janus Web Database*		
Rank	Country	Visitor Sessions
1	United States	19,585
2	Germany	534
3	United Kingdom	314
4	Japan	216
5	France	126
6	Canada	126
7	Italy	119
8	Netherlands	92
9	China	92
10	Australia	91
	All others	335
	<b>Total</b>	<b>21,630</b>

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

Top 20 Janus Web Queries*		
Rank	Query	Uploads
1	Paleo range table	6,972
2	Sample report	1,414
3	Paleo investigation	811
4	X-ray fluorescence	700
5	ICP-AES	688
6	Bulk density (GRA)	574
7	Hole trivia	571
8	Magnetic susceptibility	563
9	Core photos	539
10	Depth point calculator	480
11	P-wave velocity	375
12	Leg summary	306
13	Core summary	301
14	Site hole summary	288
15	Sample totals	259
16	Site summary	207
17	Carbonates	204
18	Sample requests	194
19	Moisture and density	176
20	Interstitial water	173
	Database overview and others	2,598
	<b>Total</b>	<b>18,393</b>

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

<b>Data Requests To Data Librarian*</b>	
<b>Requests</b>	<b>Total</b>
<b>Country:</b>	
United States	21
Germany	7
Spain	3
Australia	2
Netherlands	2
United Kingdom	2
Belgium	1
Brazil	1
China	1
Egypt	1
France	1
India	1
Japan	1
New Zealand	1
<b>Total</b>	<b>45</b>
<b>Data:</b>	
Database query problem	19
Moratorium login problem	7
Photo request	7
Data question	6
Data request	5
Image usage inquiry	2
Sampling question	1
Software inquiry	1
<b>Total</b>	<b>47</b>

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

<b>Other Web Janus Database Statistics*</b>
<b>Database Query Hits:</b>
Entire site (successful): 31,452
Average per day: 341
<b>Visitor Sessions:</b>
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%
<b>Visitors:</b>
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	Visitors	Request Number, Name, Country	Number of Samples
<b><i>East Coast Repository:</i></b>			
ECR		18417B, Gillis, Canada	57
ECR		18887A, Lawrence/Herbert/Cleveland, USA	187
ECR		20127B, Chauvel/Carpentier, France	24
ECR		20133A, Zachos, USA	547
ECR		20166A, Nielsen/Kelly, USA	115
ECR		20197B, Bohaty/John, USA	50
ECR		20197C, Bohaty/John, USA	97
ECR		20211A, Olney, USA	56
ECR		20216A, Schwarz/Rendle-Buhring, Germany	226
ECR	2	20239B, Tipple/Pagani, USA	47
ECR		20247A, Suto, Japan	279
ECR		20270A, Wilson/Forster/Palike, The Netherlands	25
ECR		20322A, Kopp, USA	32
ECR		20329A, Hillenbrand/Ehrmann, UK	11
ECR		20331A, Williams, UK	6
ECR		20337A, Dillon, USA	58
ECR	2	20390A, Katz/Wright/Miller, USA	31
ECR		20401A, Spiegel, Germany	18
ECR	1	20403A, McHugh/Applebaum, USA	122
ECR		20476A, Knappertsbusch, Switzerland	3
ECR		20488A, Ravizza, USA	62
ECR		20490A, Yamasaki/Maeda, Japan	35
ECR		20491A, Minning/Kopf, Germany	23
ECR		20510A, Lawrence/Herbert, USA	49
ECR		20542A, Huber/Georgescu, USA	13
ECR		20572A, Kendrick/Thunell, USA	24
Total science:	5	26	
Total education:	0	0	
Total PR:	0	0	
<b>Total:</b>	<b>5</b>	<b>26</b>	<b>2,197</b>
<b><i>Gulf Coast Repository:</i></b>			
GCR		20312A, Loubere, USA	12
GCR		20280A, Hendy, USA	600
GCR		20339A, Ninnemann, Norway	222
GCR		20356A, Kleiven, Norway	480
GCR		20277A, Tajeda, Japan	41
GCR		20332A, Baines, USA	102
GCR		20239A, Tipple, USA	50
GCR		20271A, Carter, Australia	152
GCR	1	20359A, Sager, USA	384
GCR		20281A, Arnold, Germany	37
GCR		20361A, Sivan, USA	18
GCR		20393A, Kindler, Switzerland	20
GCR		20244D, Abbott, USA	19
GCR		20284A, Eckert, Canada	11

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
GCR		20261B, Fuqua, USA	44
GCR		20121B, Howe, Australia	109
GCR		20264A, Mii, Taiwan	565
GCR		20237A, Behrmann, Germany	70
GCR		20268A, Meng, China	93
GCR		20270A, Wilson, UK	9
GCR		20278A, Fang, China	84
GCR		20240A, Pahlol, France	12
GCR		20293A, Schieber, USA	8
GCR		20338A, Niemitz, USA	170
GCR		20341A, Kennett, USA	4
GCR		20242B, Clift, UK	50
GCR		20403A, McHugh, USA	63
GCR		20461A, Glass, USA	41
GCR		20493A, Barker, USA	53
GCR		20478A, Morris, USA	8
GCR		20198B, Cappellacci, Switzerland	22
GCR		20471A, Farley, USA	12
GCR		20469A, DePaolo, USA	26
GCR		20489A, Galbraith, Canada	3
GCR		20180B, Cacho, Spain	15
GCR		20496A, Arnaboldi, USA	10
GCR		20358A, Dalai, USA	41
GCR		20506A, Marcantonio, USA	54
GCR		20224B, Skilbeck, Australia	9
GCR		20354A, Hensley, USA	49
GCR		20288A, Lezius, Germany	141
GCR		20325A, James, UK	4
GCR		20323A, Williams, UK	3
GCR		20310, Duncan, USA	250
GCR		20093B, Johnson, USA	403
GCR	47	304/305 Sampling Party	
Total science:	48	45	
Total education:	0	0	
Total PR:	28	0	
<b>Total:</b>	<b>48</b>	<b>45</b>	<b>4,573</b>
<b>West Coast Repository:</b>			
WCR		20308A, Ishii, Japan	19
WCR		20335A, Stewart, USA	67
WCR	12	20495A, Gonzalez, Mexico, Visit	Educational Visit/Tour
WCR	1	20473A, Norris/Vogel, USA	151
WCR		20480A, Goldsmith, UK	12
WCR		20487A, Ravizza, USA	37
WCR		20492A, Hawthorne, UK	21
WCR	1	20505A, Watanabe, Japan,	225
WCR	40	20518A, Weidetz, USA, Visit	Educational Visit/Tour
WCR	1	20533A, Norris, USA	76
WCR	1	20552A, Kimbrough, USA	25
Total science:	4	7	

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
Total education:	52	2	
Total PR:	0	0	
<b>Total:</b>	<b>56</b>	<b>9</b>	<b>633</b>
<b>Expedition:</b>			
307		20340A, de Mol/Cacho Lascorz/Grimalt, Spain	14
307		20349A, Dorschel/Wheeler, Ireland	Deferred to shore
307		20364A, Andres, USA	23
307		20372A, Joye/Samarkin, USA	210
307		20373A, Leonide/Floquet/Camoin, France	232
307		20375A, Mangelsdorf, Germany	202
307		20376A, Frank, USA	Deferred to shore
307		20377A, Frank, USA	416
307		20378A, Takashima, Japan	Deferred to shore
307		20379A, Kano, Japan	Deferred to shore
307		20380A, Titschack, Germany	Deferred to shore
307		20381A, Sasaki, Japan	Deferred to shore
307		20382A, Tanaka, Japan	Deferred to shore
307		20384A, Huvenne/Van Rooij, UK	Deferred to shore
307		20385A, Bjerager, Denmark	Deferred to shore
307		20386A, Spivack, USA	471
307		20387A, Ferdelman, Germany	51
307		20405A, Novosel, USA	297
307		20406A, Cragg, UK	436
307		20407A, Frank, USA	Deferred to shore
307		20408A, Sakai, Japan	61
307		20409A, Fuwa, Japan	Deferred to shore
307		20410A, Foubert/Heindel/Swennen, Belgium	99
307		20412A, Li, China	Deferred to shore
307		20413A, Browning, USA	Deferred to shore
307		20424A, Gharib, USA	Deferred to shore
307		20425A, Gharib, USA	87
307		20445A, Abe, Japan	Deferred to shore
307		20565A, Gregg, USA	Decision pending
307		20566A, Kano/Sakai/Takahashi, Japan	Decision pending
307		20567A, Takashima/Sakai/Kano, Japan	Decision pending
307		20568A, Sakai, Japan	Decision pending
307		20569A, Sakai/Abe/Sasaki, Japan	Decision pending
307		20570A, Browning, USA	Decision pending
307		20571A, Fuwa, Japan	Decision pending
307		20342A, Boettcher/Ferdelman, Germany	224
307		20348A, Schippers/Kruger, Germany	70
307		20365A, Inagaki/Ferdelman/Jorgensen, Germany	41
307		20374A, Henriet/Swennen/Louwyte, Belgium	Decision pending
307		20383A, Rueggeberg, Germany	Decision pending
307		20388A, Glud/Ferdelman/Middelboe, Denmark	27
307		20389A, Noe, Germany	Decision pending
307		20404A, Shuman/Goldberg/Malinverno, USA	9
307		20411A, Sinninghe Damste, Netherlands	34
<b>Total:</b>	<b>0</b>	<b>44</b>	<b>3,007</b>

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
308		20391A, Nunoura, Japan	105
308		20427A, Dugan, USA	37
308		20427B, Dugan/Germaine, USA	5
308		20429A, Jiang/Yang, China	868
308		20431A, Pirmez/Prather/O'Byrne, USA	7
308		20433A, Yamamoto/Suzuki, Japan	440
308		20434A, Binh, Japan	155
308		20435A, Takano/Suzuki/Kobayashi, Japan	227
308		20442A, Gay, UK	132
308		20443A, Zampetti, Netherlands	Data only
308		20449A, Edeskar/Ask/Saiang, Sweden	14
308		20450A, Franke, Germany	1750
308		20454A, Urgeles-Escasans, Spain	124
308		20456A, Moore, USA	Data only
308		20457A, Gutierrez Pastor, Spain	51
308		20464A, Shumnyk, USA	991
308		20465A, Aizawa, Japan	103
308		20466A, Gilhooly, USA	519
308		20467A, Schneider/Moerz/Bartetzko, Germany	64
308		20508A, Sawyer/Flemings, USA	367
308		20516A, Flemings/Nelson, USA	94
308		20519A, John/Adatte, USA	278
308		20528A, Behrmann, Germany	179
308		20538A, Li, China	601
308		20582A, Takahiro, Japan	52
308		20416A, Schippers, Germany	Decision pending
308		20421A, Mallarino, USA	293
308		20430A, Long/Germaine, USA	73
308		20432A, Soffientino/Smith, USA	92
308		20468A, Stachowiak, USA	Rejected
308		20507A, House/Schuster, USA	5
308		20529A, O'Neill/Pirmez/Puderer, USA	Decision pending
308		20540A, Schipp, USA	Rejected
<b>Total:</b>	<b>0</b>	<b>33</b>	<b>7,626</b>

## APPENDIX H: PUBLICATIONS

Publication	Release Date	URL
<b>Scientific Prospectus:</b>		
Expedition 308 (Gulf of Mexico Hydrogeology)	27 April 2005	<a href="http://iodp.tamu.edu/publications/SP/308SP/308SP.html">http://iodp.tamu.edu/publications/SP/308SP/308SP.html</a>
Expeditions 309 and 312 (Superfast Spreading Rate Crust 2 and 3)	22 June 2005	<a href="http://iodp.tamu.edu/publications/SP/309312SP/309312SP.html">http://iodp.tamu.edu/publications/SP/309312SP/309312SP.html</a>
Expedition 311 (Cascadia Margin Gas Hydrates)	28 April 2005	<a href="http://iodp.tamu.edu/publications/SP/311SP/311SP.html">http://iodp.tamu.edu/publications/SP/311SP/311SP.html</a>



Publication	Release Date	URL
<b>Preliminary Report:</b>		
Expedition 304 (Oceanic Core Complex Formation, Atlantis Massif)	5 April 2005	<a href="http://iodp.tamu.edu/publications/PR/304PR/304PR.html">http://iodp.tamu.edu/publications/PR/304PR/304PR.html</a>
Expedition 305 (Oceanic Core Complex Formation, Atlantis Massif II)	6 May 2005	<a href="http://iodp.tamu.edu/publications/PR/305PR/305PR.html">http://iodp.tamu.edu/publications/PR/305PR/305PR.html</a>
Expedition 306 (North Atlantic Climate 2)	21 June 2005	<a href="http://iodp.tamu.edu/publications/PR/306PR/306PR.html">http://iodp.tamu.edu/publications/PR/306PR/306PR.html</a>

## APPENDIX I: WEB

Comparison of Web access statistics averages between FY05 Q2 and Q3 indicates a 4% increase in Web site traffic.

### JOI

Web access statistics for the USIO/JOI Web server will be available starting with FY05 Q4.

### LDEO

iodp.tamu.edu	FY05 Q3		
Parameter	Apr	May	Jun
Page views	1,645	1,372	1,261
Site visits*	1,249	1,204	1,148

\*LDEO Web employee and search engine spider visits have been filtered out.

### TAMU

iodp.tamu.edu	FY05 Q3		
Parameter	Apr	May	Jun
Page views	95,981	90,268	95,491
Site visits*	15,775	16,592	14,848

\*TAMU employee and search engine spider visits have been filtered out.

New Web Pages	Release Date	URL
Exp 304/305 & 307 press releases	April 2005	<a href="http://www.iodp-usio.org/Newsroom/News.html">http://www.iodp-usio.org/Newsroom/News.html</a>
Teacher at Sea fact sheet and application for 2005 expeditions	April 2005	<a href="http://www.iodp-usio.org/Education/TAS.html">http://www.iodp-usio.org/Education/TAS.html</a>
Expedition 306 ship reports	April 2005	<a href="http://iodp.tamu.edu/scienceops/sitesumm/306_shiprep.html">http://iodp.tamu.edu/scienceops/sitesumm/306_shiprep.html</a>
Expedition 307 ship reports	May 2005	<a href="http://iodp.tamu.edu/scienceops/sitesumm/307_shiprep.html">http://iodp.tamu.edu/scienceops/sitesumm/307_shiprep.html</a>
Expedition 307 photos	May 2005	<a href="http://iodp.tamu.edu/publicinfo/gallery/exp307/">http://iodp.tamu.edu/publicinfo/gallery/exp307/</a>
Expedition 308 ship reports	June 2005	<a href="http://iodp.tamu.edu/scienceops/sitesumm/308_shiprep.html">http://iodp.tamu.edu/scienceops/sitesumm/308_shiprep.html</a>
Expedition 308 photos	June 2005	<a href="http://iodp.tamu.edu/publicinfo/gallery/exp308/">http://iodp.tamu.edu/publicinfo/gallery/exp308/</a>
Revised Communications Policy	June 2005	<a href="http://iodp.tamu.edu/participants/policies/IODP_Comm_Policy.pdf">http://iodp.tamu.edu/participants/policies/IODP_Comm_Policy.pdf</a>
Poster-size drill site maps	June 2005	<a href="http://iodp.tamu.edu/scienceops/maps.html">http://iodp.tamu.edu/scienceops/maps.html</a>
USIO curriculum enrichment material	June 2005	<a href="http://www.iodp-usio.org/Education/Educ.html">http://www.iodp-usio.org/Education/Educ.html</a>
Accessibility information	June 2005	<a href="http://iodp.tamu.edu/accessibility/">http://iodp.tamu.edu/accessibility/</a>

## APPENDIX J: CORE REPOSITORY CONSOLIDATION

On the direction of NSF, the FY06 Program Plan that was submitted in April 2005 included funds to begin the Deep Sea Drilling Project (DSDP)/ODP Core Repository Redistribution Project. The following tasks (if funding is approved) were outlined for completion in FY06:

- Purchase all supplies and equipment;
- Build Kochi Core Repository (KCR) racks; and
- Initiate of core distribution to KCR.

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

### U.S. SODV PROGRAM REPORT—APRIL—JUNE 2005

During the reporting period (1 April–30 June 2005), the JOI Alliance accomplished the following major steps in the process of acquiring the new SODV:

- The Source Selection process for choosing a Drilling Contractor continued with a key review the second week in May 2005.
- The TAMU SODV Project Manager position was filled.
- Members of the SODV team traveled to Japan to interface with the CDEX office and to tour the *Chikyu*.
- NSF approved the required documents and JOI received funds on 16 June 2005.
- The SODV Independent Oversight Committee held its kickoff meeting on 9 May 2005.

### SOURCE SELECTION

The Source Selection Advisory Committee (SSAC) met during the second week in May 2005 to review presentations from the Technical Evaluation Committee, the Financial Evaluation Committee, and the Management Evaluation Committee. The SSAC then made a presentation to the JOI Alliance and NSF before presenting the recommended approach to the Source Selection Official.

### SODV PROGRAM MANAGER

Frank Williford was hired as the SODV Program Manager at IODP-USIO Science Services, TAMU, with a scheduled start date of 1 July 2005.

### JAPAN VISIT

K. Kryc (Assistant Director, Ocean Drilling Programs) and S. Williams (Director, SODV Conversion), both of JOI; and S. Midgely (Operations Superintendent) and B. Mills (Laboratory Officer), both of IODP-USIO Science Services, TAMU, traveled to Japan 18–22 April 2005 to learn about the process CDEX followed to design the *Chikyu*. Williams and Kryc gave a presentation at the Japan Marine Science and Technology Center (JAMSTEC) office in Tokyo, and Midgely and Mills reviewed the *Chikyu* designs and instrument lists at the JAMSTEC office in Yokohama. The group traveled to Nagasaki and spent two days receiving a comprehensive

tour of the *Chikyu*. A report of this visit was provided to NSF as an attachment to the SODV May 2005 monthly report.

### **LDEO LOGGING RFP**

The logging RFP was released in early May 2005; however, the process was then halted at NSF's request. With a modified process in place, the logging RFP will be reviewed and edited, and then discussed at upcoming Science Advisory Structure (SAS) meetings. It is anticipated that the logging RFP will be released in late July to ensure the selection of a logging vendor in time to participate in the SODV engineering development phase.

### **SODV COMMUNITY ENGAGEMENT**

The Briefing Book questionnaires were received prior to 1 June 2005 and forwarded to IODP-MI to be compiled into a report for submission to JOI.

### **PLANNING ACTIVITIES**

The JOI Alliance has continued the planning for the design, development, and acquisition of the science system that will be installed on the SODV. The internal team leaders for the Conversion Design Team were selected and other internal candidates were named. Nominations for the external membership of the Science Laboratories Conversion Design Team were received and will be selected by the end of July. The team leaders have been briefed on the current status of the SODV project and the goals of their specific design team and have received the Design Team Charters.

## APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

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