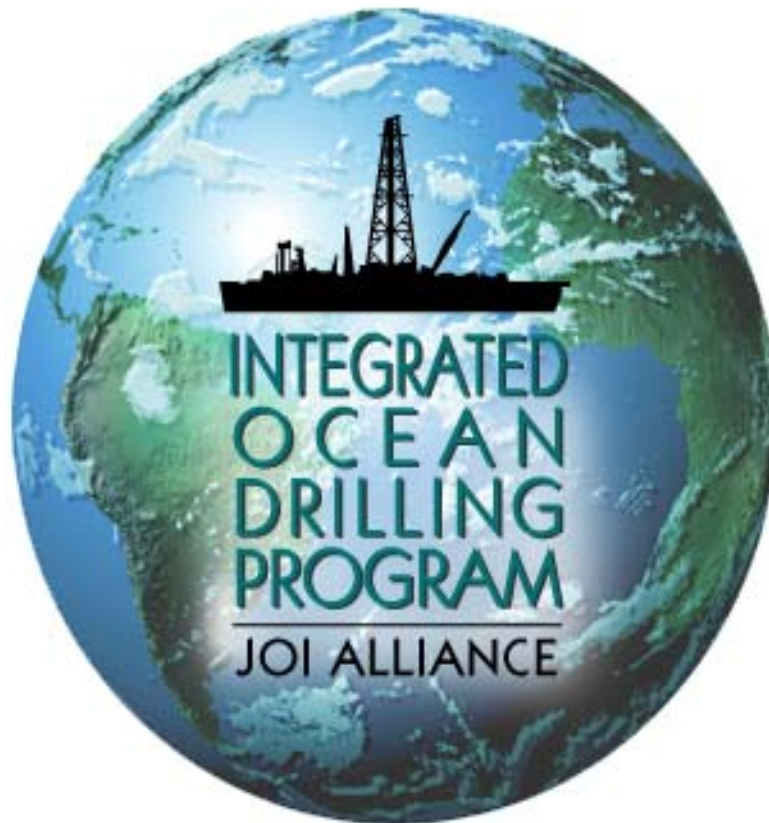


15 May 2006



1 January–31 March 2006

FY06 Quarterly Report 2

NSF Contract No. OCE-0352500

Submitted by the JOI Alliance to

The National Science Foundation

and

IODP Management International, Inc.

TABLE OF CONTENTS

INTRODUCTION.....	3
EXPEDITION OPERATIONS	3
EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES.....	3
STATUS OF EQUIPMENT	3
TECHNOLOGY DEVELOPMENT	4
PROJECTS AND OTHER ACTIVITIES	4
REPORTS/PUBLICATIONS.....	4
IODP-USIO ANNUAL PROGRAM PLAN FOR IODP-MI AND NSF	4
IODP-USIO FY05 ANNUAL REPORT.....	5
IODP-USIO FY06 IODP QUARTERLY REPORT	5
IODP SCIENTIFIC PUBLICATIONS.....	5
OUTREACH	5
MUSEUM PARTNERSHIPS	5
PUBLIC AFFAIRS	5
IODP-USIO WEB SITE	8
IODP-USIO SUPPORT ACTIVITIES.....	9
INTERACTIONS WITH IODP-MI AND IODP IMPLEMENTING ORGANIZATIONS	9
APPENDIX A: CONTRACTUAL ACTIVITIES	12
APPENDIX B: FINANCE REPORT	13
APPENDIX C: PERSONNEL STATUS	55
APPENDIX D: CONFERENCE AND MEETING SCHEDULE	56
APPENDIX E: TRAVEL.....	56
APPENDIX F: DATA REQUESTS.....	60
APPENDIX G: SAMPLE REQUESTS	60
APPENDIX H: PUBLICATIONS	62
APPENDIX I: WEB.....	62
APPENDIX J: CORE REPOSITORY CONSOLIDATION	63
APPENDIX K: EDUCATION.....	63
APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST	65

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 second quarter of FY06.

EXPEDITION OPERATIONS

EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES

IODP-USIO *JOIDES RESOLUTION* DEMOBILIZATION

The *JOIDES Resolution* arrived in Galveston, Texas, on 8 January 2006 and port call activities were completed the same day. Demobilization of the vessel commenced on 9 January 2006 and all government-owned equipment was removed from the vessel, except for equipment that was loaned from IODP-USIO to Overseas Drilling Limited (ODL) with National Science Foundation (NSF) and JOI approval. Demobilization was completed and the Phase 1 contract with Transocean Inc. was terminated on 20 January 2006. Final IODP wrap-up, including NSF walk through, final shipments from Galveston, and closure with the agent, were completed by the 26 January 2006.

IODP-USIO JUAN DE FUCA EXPEDITION

A planning meeting was held on 16 February 2006 in College Station, Texas, to refine engineering development and first-order operational plans to assist in identifying long-lead items for the FY07 budget and to discuss strategies for development of engineering cooperation between the USIO and the proponent consulting engineer. Participants included the lead proponent, the proponent consulting engineer, and 12 USIO staff. A follow-up meeting to discuss further definition of engineering projects was held on 14 March 2006 in College Station, Texas, between the consulting engineer and USIO engineering and operational staff.

IODP-USIO NANTroSEIZE 1 AND 2 EXPEDITIONS

A planning meeting was held on 2 and 3 March 2006 in College Station, Texas, to define the operational and engineering plans for the USIO NanTroSEIZE 1 and 2 expeditions. Participants included seven proposal scientists, the two NanTroSEIZE Chief Project Scientists, the Vice President of Operations for the IODP central management office (IODP Management International, Inc. [IODP-MI]), three guests from the Center for Deep Earth Exploration (CDEX), and eight USIO staff.

STATUS OF EQUIPMENT

LOAN OF IODP-USIO EQUIPMENT

IODP equipment loaned by IODP-USIO, with NSF and JOI approval, to ODL for use during the India Gas Hydrate drilling program remained on the *JOIDES Resolution* at the conclusion of the demobilization. USIO custodians are supervising use of all loaned equipment during this program.

TECHNOLOGY DEVELOPMENT

PROJECTS AND OTHER ACTIVITIES

IODP-USIO SCIENCE SERVICES, TAMU, ENGINEERING SERVICES

Simulated Borehole Test Facility: The Simulated Borehole Test Facility (SBTF) has been moved into an area of the hangar at the Texas A&M University (TAMU) Riverside campus. The test facility (TFAC) office and shop have been cleaned up, repainted, and made usable again.

A pallet of dried clay was procured for use as a sediment proxy for testing purposes. Designs for a separate consolidation chamber are in progress and will be finalized when the proper methods for mixing and consolidating the clay have been developed. Testing is in process to determine these methods.

Calibration Laboratory: The calibration laboratory deadweight tester was rebuilt, new seals were installed, and the tester was thoroughly cleaned following instructions from Ametech technical support. The Advanced Piston Corer Methane tool (APCM), PCS methane tool (PCSM), and pressure core sampler (PCS) pressure monitor system were calibrated and tested for pressure in preparation for loan to Transocean Inc. for use in the India Gas Hydrate drilling program. New calibrated thermistors were installed in the Davis-Villinger Temperature Probe (DVTP) tips and verified in the temperature bath against a Standard Platinum Resistance Thermometer (SPRT), where resistance errors equivalent to $<0.01^{\circ}\text{C}$ were found.

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

Modular High-Temperature Tool: The first field test of the modular high-temperature tool (MTT) was completed. The memory version of the tool was assembled and tested in the LDEO test borehole to 250 meters below the land surface. The sensors and data acquisition subsystem performed very well, with all data being recorded and reasonable measurements made. Battery life for the MTT was empirically verified to be between 24 and 36 hours, more than enough for 1–2 standard logging runs.

BRG Building Renovation: The LDEO Borehole Research Group (BRG) building renovation Phase2a is currently underway with anticipated completion in May 2006.

REPORTS/PUBLICATIONS

IODP-USIO ANNUAL PROGRAM PLAN FOR IODP-MI AND NSF FY07 ANNUAL PROGRAM PLAN

On 6 January 2006, the USIO provided an initial FY07 science operating costs (SOCs) budget estimate to IODP Management International, Inc. (IODP-MI). The USIO received FY07 budget guidance from IODP-MI (for SOC) and a mission forecast from NSF (for platform operating costs [POCs] and U.S. systems integration contract [SIC] costs) on 10 February 2006 and 13 February 2006, respectively. During the remainder of the quarter, the USIO developed the FY07 Annual Program Plan.

At the end of March 2006, the USIO met with CDEX to review activities proposed by each implementing organization (IO) in their FY07 Annual Program Plans in an effort to (1) establish a framework for higher levels of integration within IODP; (2) facilitate coordinated strategic planning for IODP; and (3) coordinate planning, training, and development activities with the

other IOs, where feasible. The results of the meeting were also shared with the European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO).

FY06 ANNUAL PROGRAM PLAN

The IODP-USIO FY06 Annual Program Plan was executed with particular attention focused on maintaining close oversight of the demobilization and operational expenses during this quarter as the USIO entered into the hiatus in drilling and transition leading to the conversion of the U.S. Scientific Ocean Drilling Vessel (SODV). During this quarter, there was significant cost avoidance due to the reduced time required for demobilization activities because of changes in the overall scope of that activity and to reduced requirements for fuel during this phase of operations. The financial appendix to this report provides a summary of the FY06 Program Plan budgets.

IODP-USIO FY05 ANNUAL REPORT

The IODP-USIO FY05 Annual Report was edited, reviewed, and submitted to NSF and IODP-MI on 26 January 2006.

IODP-USIO FY06 IODP QUARTERLY REPORT

The report for the first quarter of FY06 (October–December 2005) was submitted to NSF and IODP-MI on 14 February 2006.

IODP SCIENTIFIC PUBLICATIONS

FIRST POSTCRUISE MEETINGS

Expeditions 309 and 312 (Superfast Spreading Rate Crust 2 and 3): Held 20–24 March 2006 at IODP-USIO Science Services, TAMU.

Expedition 311 (Cascadia Margin Gas Hydrates): Held 30 January–3 February 2006 at IODP-USIO Science Services, TAMU.

PROCEEDINGS OF THE INTEGRATED OCEAN DRILLING PROGRAM

Volume 302 (Arctic Coring Expedition [ACEX]): Published on 7 March 2006 (see “Appendix H”).

OUTREACH

MUSEUM PARTNERSHIPS

JAPAN/U.S. PUBLIC UNDERSTANDING OF RESEARCH PLANNING

After the conclusion of the Expedition 312 pilot program, USIO staff participated in a postexpedition assessment and began discussions of possible activities to pursue in the future.

SMITHSONIAN INSTITUTION, NATURAL HISTORY MUSEUM

The USIO continued collaborative efforts with IODP-MI on the development of a video that will highlight ocean drilling in the Natural History Museum’s new Ocean Hall.

PUBLIC AFFAIRS

The JOI Alliance continued to focus attention this quarter on laying the groundwork for media events and outreach opportunities in FY06 and beyond. Highlights included:

Consulting with Expedition 312 Staff Scientist and Co-Chief Scientists, as well as communications officers at NSF and IODP-MI, to develop an outreach plan for the news release highlighting the science party's accomplishments in *Science*. A joint IODP-USIO/IODP-MI/NSF news release was drafted and will be distributed under embargoed conditions for publication on the date of the paper's appearance in *Science* (estimated for mid-April 2006).

At the 2006 Ocean Sciences Meeting (20–24 February 2006 in Honolulu, Hawaii), USIO carried out a variety of outreach activities, including a Town Hall meeting co-sponsored by NSF, JOI, and the Consortium for Oceanographic Research and Education (CORE), where Dr. G. Filippelli gave an update on IODP from the perspective of the U.S. science community, and an exhibit featuring a slide show that highlighted IODP-USIO accomplishments and activities. USIO staff also reached out to scientists, journalists, students, and educators at the exhibit to promote awareness of the Program's accomplishments and participation in future IODP expeditions.

At the American Association for the Advancement of Science (AAAS) Annual Meeting (19 February 2006 in St. Louis, Missouri), ~100 people, including at least three journalists, attended a session co-sponsored with AAAS titled "Climate Change, Risk Management, and the Next 100 Years." The symposium addressed the current state of scientific knowledge about climate change from paleoclimate research that stemmed from ocean drilling program data. The speakers (U.S. Congressman V. Ehlers, USAC Chair Dr. G. Filippelli, RAND Corporation's Dr. R. Lempert, and JOI President S. Bohlen) provided a range of perspectives on prudent actions that government, business, and society should take to head off long-term global warming threats.

PUBLIC RELATIONS MATERIALS

News releases were distributed directly to ~100 science journalists, to thousands of media associations worldwide via the EurekaAlert news release distribution service, and to IODP member country offices. News releases distributed during this quarter included:

Global Warming Can Trigger Extreme Ocean Climate Changes (5 January 2006).

News articles, programs, media citations, or public commentary related to IODP expeditions and postexpedition activities involving the USIO that were published during this quarter included the following:

Agence France Presse, 2006. Ancient global warming shifted sea currents (article ran on DiscoveryChannel.com). *Agence France Presse*, 5 January 2006.

Associated Press, 2006. Deep-sea drill set for climate research. *Associated Press*, 28 January 2006.

Becker, K., Davis, E.E., Fisher, A.T., Klaus, A., Schroeder, D., Storms, M., Pettigrew, T., and Wheat, C.G., 2006. ODP/IODP "CORK" long-term seafloor hydrogeological observatories. *Proc. Annu. Offshore Technol. Conf.*, OTC-18014.

Bowman, L., 2006. Ocean hot in days of dinosaurs, study finds. *Scripps Howard News Service.com*, 17 February 2006. Available from World Wide Web: http://www.shns.com/shns/g_index2.cfm?action=detail&pk=HOTWATER-02-17-06.

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- Corsiglia, J.P., 2006. New explorations and discoveries from scientific ocean drilling. *Sea Technol.*, 47(1):31–32.
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- The Hindu, 2006. Indio, US hail Asia-Pacific partnership on clean development and climate. *The Hindu*, 2 March 2006.
- The Times, 2006. Scientists journey towards centre of the Earth to seek out origins of life. *The [London] Times*, 16 January 2006.

CONGRESSIONAL OUTREACH

On 8 February 2006, American Geophysical Union (AGU) President J. Orcutt and JOI President S. Bohlen briefed members and staff of the U.S. House of Representatives and the Senate about the need to renew investment in ocean research. The briefing focused on an AGU position statement that noted ways in which ocean research and education contribute to U.S. innovation

and competitiveness. In his presentation, Bohlen included examples of discoveries from IODP that have been positively applied to society.

IODP-USIO WEB SITE PUBLICATIONS

This quarter saw the publication of the Expedition 302 volume of the *Proceedings of the Integrated Ocean Drilling Program*, which the USIO produced on behalf of IODP-MI and ECORD. The USIO will host this volume until ECORD's Web server can be enabled for server-side includes (SSI), a type of HTML command that makes it unnecessary to include multiple copies of the same information in HTML files and allows the presentation of dynamic content on Web pages.

IODP DATABASES

Janus Database: Data from Expedition 301 are available to the public online. Coring summary data, site trivia, and sampling data from Expedition 302 are available to the public online. Data from Expeditions 303–311 are under moratorium and therefore only available to the Scientific Party.

Log Database: Data from Expedition 301 are available to the public online. Data from Expeditions 303–311 are under moratorium and therefore only available to the Scientific Party. LDEO has begun a project to transition to a relational database for logging metadata. This change will allow better integration with other USIO databases, simplify the generation of metadata, and allow for more complex search queries by end-users. Requirements gathering and data modeling for this new system have begun.

Processed Logs: Logging data have been processed and put online under moratorium (with accompanying documentation) for Hole 1256D, Expedition 312 (standard data, images, temperature).

Sonic waveforms data from Hole 1256D, Expedition 312 were converted from DLIS to binary format and made available online.

Seismic data from Hole 1256D, Expedition 312 were converted from DLIS to standard seismic data format (SEG Y) and made available online.

In addition to the images from the resistivity-at-the-bit (RAB) tool, other logging-while-drilling (LWD) images (from the azimuthal density neutron [ADN] and EcoScope tools) are now routinely processed. The following holes were processed and will soon be made available online: Hole U1325A, Expedition 311 (all LWD image data); Hole U1326A, Expedition 311 (all LWD image data); Hole U1327A, Expedition 311 (all LWD image data); Hole U1327A, Expedition 311 (all LWD image data); Hole U1328A, Expedition 311 (all LWD image data); Hole U1329A: Expedition 311 (all LWD image data); Hole U1319B, Expedition 308 (all LWD image data); Hole U1320A, Expedition 308 (all LWD image data); Hole U1321A, Expedition 308 (all LWD image data); Hole U1322A, Expedition 308 (all LWD image data); Hole U1323A, Expedition 308 (all LWD image data); and Hole U1324A, Expedition 308 (all LWD image data).

IODP-USIO SUPPORT ACTIVITIES

INTERACTIONS WITH IODP-MI AND IODP IMPLEMENTING ORGANIZATIONS SCIENCE PLANNING AND POLICY OVERSIGHT COMMITTEE

The Science Planning and Policy Oversight Committee (SPPOC) meeting was held 17 and 18 January 2006 in Winterthur, Switzerland. (See Appendix E for list of USIO attendees.) The operations schedule of the USIO riserless vessel was approved for FY07 and provisionally approved for FY08.

ENGINEERING DEVELOPMENT PANEL

The Engineering Development Panel (EDP) meeting was held 25–27 January 2006 in Fuchinobe, Japan. (See Appendix E for list of USIO attendees.) The meeting focused on several issues relevant to USIO activities, including review of the U.S. Scientific Ocean Drilling Vessel (SODV) designs, development of a Technology Road Map, and review of the proposed FY07 USIO development projects.

The panel discussed the development of a technology road map with the intention to finalize such a road map at the next meeting. The USIO presented a preliminary road map concept for use specifically by the IOs. They also discussed the proposed USIO FY07 development projects. The timing for the development of these projects was out of phase with other USIO activities, so the panel provided a one-time solution to review the proposals electronically following the meeting. Based on these reviews, EDP endorsed proceeding with the Logging-while-Coring Project and the Pulse Telemetry Module Feasibility and Design Study.

SCIENTIFIC TECHNOLOGY PANEL MEETING

The Scientific Technology Panel (STP) meeting was held on January 30–1 February 2006 in Kochi, Japan. (See Appendix E for list of USIO attendees.) USIO staff presented the proposed analytical projects, including a more detailed presentation on the LIMS.

NANTROSEIZE PROJECT MANAGEMENT TEAM MEETING

The NanTroSEIZE Project Management Team meeting was held on 2 and 3 February 2006 in Sapporo, Japan. (See Appendix E for list of USIO attendees.) USIO staff presented operational estimates for proposed expeditions and participated in other planning discussions.

DATA MANAGEMENT COORDINATION GROUP MEETING

The Data Management Coordination Group (DMCG) meeting was held 2–5 February in Kochi, Japan. (See Appendix E for list of USIO attendees.) Topics included the future Sample Materials and Curation System (SMCS), the IODP portal (Scientific Earth Drilling Information Service [SEDIS]), quality assurance/quality control (QA/QC) plans, core description, paleontological dictionaries, depth scale standards, and more. The USIO presented its plans for a new type of core description system.

IODP-MI OPERATIONS REVIEW TASK FORCE—EXPEDITIONS 303, 306, AND 307

The IODP-MI Operations Review Task Force (ORTF) meeting was held 20 and 21 February 2006 in College Station, Texas. (See Appendix E for list of USIO attendees.) The meeting reviewed operations associated with combined Expeditions 303 and 306 (North Atlantic Climate 1 and 2) and Expedition 307 (Porcupine Carbonate Mounds). The general agreement was that

both cruises were successful and achieved the majority of their scientific objectives; however, the limited lead time prior to the start of each cruise combined with operating in less than ideal weather windows minimized overall cruise success. A brief overview of expedition-related issues follows; the official ORTF meeting notes will be available at the IODP-MI Web site.

Expeditions 303 and 306: Issues addressed included weather and alternate site strategies, the required long transits given the very distant site locations, site selection and the quality of surveys to determine channel deposits, integration of two expeditions separated by four months, the need to drill to the Irminger Basin (IRM) sites, logging strategies, and the need for increased nonmagnetic core barrel inventory, among others.

Expedition 307: Issues addressed included not drilling the Therese mound drill site, pre-expedition workshop for shipboard participants, techniques for splitting coral-bearing cores, accuracy of precision depth recorder (PDR) depth measurements, and postcruise sampling strategies, among others.

SITE SURVEY PANEL MEETING

The Site Survey Panel (SSP) meeting was held 22–24 February 2006 in San Diego, California. (See Appendix E for list of USIO attendees.) SSP conducted its normal review of the site survey status of active proposals. Other major discussions included the status of Site Survey Data Bank (SSDB) services and the policy for public access to SSDB data. USIO representative Adam Klaus (IODP-USIO Science Services, TAMU, Staff Scientist and Expedition Project Manager) gave a presentation covering major current USIO activities and issues including SODV status/planning, the draft USIO drilling schedule, and the importance of site survey data packages for USIO science, safety, and operations. Klaus also provided input to SSP regarding USIO science and operations during the proposal discussions.

IMPLEMENTING ORGANIZATION MEETING

During the week of 27 February 2006 through 5 March 2006, representatives from CDEX met with USIO staff in College Station, Texas, and St. Petersburg, Florida, to conduct IO information exchange related to platform operations, the DSDP/ODP Core Redistribution Project, and staff exchanges and training.

IODP-MI/IMPLEMENTING ORGANIZATION MEETING

The IODP-MI/IO meeting was held on 5 March 2006 in St. Petersburg, Florida. (See Appendix E for list of USIO attendees.) Topics covered included FY07 Annual Program Plan development; expedition staffing, including staff exchanges and training and performance assessment for Co-Chief Scientists and other science party members; the IODP policy manual; the DSDP/ODP Core Redistribution Project; safety package preparation protocols and responsibilities; IODP databases; coordinating IO presentations at SAS meetings; IO/IODP-MI/Program Member Office (PMO) interactions; publication plans for FY07 and beyond; and development of an IODP-MI/IO contact list.

SCIENCE PLANNING COMMITTEE MEETING

The SPC meeting was held 6–10 March 2006 in St. Petersburg, Florida. (See Appendix E for list of USIO attendees.) The meeting focused on review and ranking of the science proposals and consideration of which proposals to forward to the OTF for scheduling consideration. Of the ~21 proposals that were presented and discussed, SPC agreed to forward to OTF the following proposals: Mid Atlantic Ridge Microbiology, NanTroSEIZE Observatories, New England Shelf

Hydrology, Asian Monsoon, Northern Arabian Sea Monsoon, Costa Rica Seismogenesis Phase A and B, Mariana Convergent Margin, and Newfoundland Rifted Margin.

IODP-MI OPERATIONS TASK FORCE MEETING

An OTF meeting was held in conjunction with the SPC meeting to discuss preliminary scheduling models. The preferred schedule, which requires further refinement and discussion, was Equatorial Pacific, USIO NanTroSeize 1, USIO NanTroSEIZE 2, Bering Sea, Juan de Fuca, Canterbury, and Wilkes Land.

APPENDIX A: CONTRACTUAL ACTIVITIES

JOI

NSF CONTRACT OCE-0352500 WITH JOI

JOI received the following modifications during the report period:

Modification 15: Reduced the FY06 IODP-USIO Program Plan POC and SIC budgets by \$1,050,000.

LDEO

LDEO SUBCONTRACT NEGOTIATIONS

The Columbia University Source Selection board and NSF approved the choice of Schlumberger for the USIO logging services provider for FY07 and beyond. Columbia University issued a Letter of Intent to subcontract and negotiation of final terms is ongoing. A contract is expected to be signed in late April 2006.

TAMRF/TAMU

TAMRF SUBCONTRACT WITH ODL

25 January 2006: Property Inventory and Responsibility Agreement was signed for property left on the *JOIDES Resolution*.

27 January 2006: Amendment 8 was issued for incremental funding.

CONTRACTS/PROCUREMENT ACTIVITY (100K OR GREATER)

10 January 2006: Prior approval was received for the existing East Coast Repository Lease Agreement.

23 January 2006: A Request for Quotation for a LIMS was issued; six quotes were received.

MISCELLANEOUS ACTIVITY

1 January 2006: A loan agreement for the Acoustic Velocity Measurement System was made between TAMRF and the European Petrophysics Consortium at the University of Leicester.

14 March 2006: TAMRF signed an agreement with Texas Engineering Experiment Station to assist in the implementation of the IODP Supply Chain Asset Management Project.

APPENDIX B: FINANCE REPORT

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

APPENDIX C: PERSONNEL STATUS

JOI

The following positions were vacated during the quarter:

Senior Technical Associate (Erik Moortgat): 17 March 2006

The following positions were opened and advertised during the quarter:

Senior Technical Associate

The following positions were filled during the quarter:

IODP-USIO Associate Director (David Divins): 9 January 2006

Accounting Manager (Winsome Dawes): 9 January 2006

Staff Accountant (Kaprina Robinson): 2 March 2006

LDEO

The following positions were vacated during the quarter:

Logging Staff Scientist (Heike Delius): 31 January 2006

Logging Staff Scientist (Marc Reichow): 28 February 2006

The following positions were opened and advertised during the quarter:

Logging Staff Scientist

The following positions were filled during the quarter:

Mechanical Engineer (Stefan Mrozewski): 8 February 2006

Project Coordinator (Felicia Taylor): 6 March 2006

TAMU/TAMRF

The following positions were vacated during the quarter:

Budget Analyst (Clydie Hughes): 23 January 2006

Senior Data Administrator (Susan Freeman): 31 January 2006

Imaging Specialist (Shannon Housley): 7 February 2006

Marine Laboratory Specialist (Jennifer Henderson): 3 March 2006

Marine Laboratory Specialist (Karen Johnston): 21 March 2006

The following positions were opened and advertised during the quarter:

Executive Administrator

Budget Analyst

Supervisor of Editing

Editor

Staff Scientist

Systems Support Specialist (2)

Marine Computer Specialist (4)
 Software Applications Developer
 Designer
 Engineer

The following positions were filled during the quarter:

Senior Systems Administrator (Cesar Flores): 9 January 2006
 Applications Developer I (Brice Lambi): 9 January 2006
 Research Specialist (Maxim Vasilyev): 23 January 2006
 Research Specialist (Zenon Mateo): 20 February 2006
 Imaging Specialist (Tim Fulton): 20 March 2006
 Budget Analyst (Latasha Lewis): 27 March 2006
 Research Specialist (Erik Moortgat): 30 March 2006

APPENDIX D: CONFERENCE AND MEETING SCHEDULE*

Conference/Meeting	Date	Location
Science Planning and Policy Oversight Committee (SPPOC)	17–18 January 2006	Winterthur, Switzerland
Engineering Development Panel (EDP)	25–27 January 2006	Fuchinobe, Japan
Scientific Technology Panel (STP)	28 January–1 February 2006	Kochi, Japan
NanTroSEIZE Project Management Team (PMT)	2–3 February 2006	Sapporo, Japan
Data Management Coordination Group (DMCG)	2–5 February 2006	Kochi, Japan
Operations Review Task Force, Expeditions 303/306 and 307	19–22 February 2006	College Station, Texas
Site Survey Panel (SSP)	22–24 February 2006	San Diego, California
IODP-MI and IO Meeting	5 March 2006	St. Petersburg, Florida
Science Planning Committee (SPC)	6–10 March 2006	St. Petersburg, Florida
Operations Task Force	Held in conjunction with SPC	St. Petersburg, Florida

*External meetings and conferences.

APPENDIX E: TRAVEL*

Purpose	Date	Location	Personnel	Institution
Demobilization of the <i>JOIDES Resolution</i>	3–25 January 2006	Galveston, Texas	R. Mitchell	TAMU
Demobilization of the <i>JOIDES Resolution</i>	4–26 January 2006	Galveston, Texas	D. DeShetler	TAMRF
Demobilization of the <i>JOIDES Resolution</i>	4–13 January 2006	Galveston, Texas	C. Engledow	TAMRF
Demobilization of the <i>JOIDES Resolution</i>	4–11 January 2006	Galveston, Texas	C. Flores	TAMU
Demobilization of the <i>JOIDES Resolution</i>	4–9 January 2006 and 21–25 January 2006	Galveston, Texas	R. McPherson	TAMRF
Demobilization of the <i>JOIDES Resolution</i>	4–26 January 2006	Galveston, Texas	M. Storms	TAMU
Demobilization of the <i>JOIDES Resolution</i>	7–16 January 2006	Galveston, Texas	D. Gentry	TAMU
Demobilization of the <i>JOIDES Resolution</i>	7–12 January 2006	Galveston, Texas	G. Guerin, G. Iturrino, G. Myers, W. Masterson	LDEO

Purpose	Date	Location	Personnel	Institution
Demobilization of the <i>JOIDES Resolution</i>	12 January 2006 and 20–21 January 2006	Galveston, Texas	B. Julson	TAMU
Demobilization of the <i>JOIDES Resolution</i>	23–26 January 2006	Galveston, Texas	C. Engledow	TAMRF
JOI Meetings	9–11 January 2006	Washington, DC	J. Fox	TAMU
JOI and NSF Meetings	10–12 January 2006	Washington, DC	D. Johnson	TAMU
Tour of the <i>JOIDES Resolution</i>	13 January 2006	Galveston, Texas	T. Caviness, B. Perry, L. Peters, K. Sherar, B. Slone, E. Slone, B. Turner	TAMU
Tour of the <i>JOIDES Resolution</i>	13–15 January 2006	Galveston, Texas	B. Lambi	TAMU
Tour of the <i>JOIDES Resolution</i>	17 January 2006	Galveston, Texas	R. Mithal	TAMU
Science Planning and Policy Oversight Committee (SPPOC) Meeting	15–22 January 2006	Winterthur, Switzerland; Leeds, United Kingdom	J. Fox	TAMU
SPPOC Meeting	16–19 January 2006	Winterthur, Switzerland	D. Goldberg	LDEO
SPPOC Meeting	16–19 January 2006	Winterthur, Switzerland	F. Rack	JOI
Provide Orientation in Galveston, Texas	17 January 2006	Galveston, Texas	P. Thompson	TAMU
Inventory Software Development Meeting	17 January 2006	Galveston, Texas	B. Julson	TAMU
10th Annual Tran-Texas Videoconference Network (TTVN) Conference	17–20 January 2006	Galveston, Texas	D. Becker	TAMU
Intelipepe Presentation	19 January 2006	The Woodlands, Texas	B. Aduddell, L. Chen, K. Grigar, D. Hornbacher, D. Schroeder	TAMU
Inventory and Property Transfer for Equipment Left on the <i>JOIDES Resolution</i>	22–24 January 2006	Galveston, Texas	K. Grigar, J. Hutchinson	TAMU
Visit to LDEO Repository and University of Rhode Island (URI) Lost City Project	24–26 January 2006	Newark, New Jersey	D. Becker	TAMU
Joint Information Team (JIT) Meeting/Visit to URI Inner Space Center	24–26 January 2006	Narragansett, Rhode Island	T. Baker, D. Quidbach	LDEO
JIT Meeting/Visit to URI Inner Space Center	25 January 2006	Kingston, Rhode Island	D. Divins, M. Niemitz	JOI
Scientific Technology Panel (STP) Meeting	25 January–2 February 2006	Kochi, Japan	D. Houpt	TAMU
STP Meeting	28 January–2 February 2006	Kochi, Japan	S. Higgins	LDEO
STP and Data Management Coordination Group (DMCG) Meetings	25 January–6 February 2006	Kochi, Japan	P. Blum	TAMU
STP and DMCG Meetings	28 January–6 February 2006	Kochi, Japan	E. Moortgat	JOI
DMCG Meeting	20 January–6 February 2006	Kochi, Japan	D. Quidbach	LDEO
DMCG Meeting	30 January–6 February 2006	Kochi, Japan	P. Foster	TAMU
DMCG and IODP-MI Meetings, J-CORES testing, and visit to <i>CHIKYU</i>	26 January–6 February 2006	Kochi, Japan	J. Firth, P. Rumford	TAMU

Purpose	Date	Location	Personnel	Institution
Engineering Development Panel (EDP), STP, and NanTroSEIZE Project Management Team (PMT) Meetings	22 January–4 February 2006	Fuchinobe, Japan; Tokyo, Japan; Sapporo, Japan	J. Baldauf	TAMU
EDP Meeting	23–28 January 2006	Fuchinobe, Japan	G. Myers	LDEO
Gas Hydrates Meeting of the Geological Society	25–26 January 2006	London, England	M. Linek	LDEO– Aachen
Close out National Geophysical Data Center (NGDC) data transfer, exit paperwork	26–27 January 2006	College Station, Texas	S. Freeman	TAMU
IODP-MI NanTroSEIZE PMT Meeting	30 January–4 February 2006	Sapporo, Japan	Adam Klaus	TAMU
Expedition 311 Postcruise Meeting	25 January–4 February 2006	College Station, Texas	K. Petronotis	TAMU
Expedition 311 Postcruise Meeting	29 January–3 February 2006	College Station, Texas	G. Guerin	LDEO
Custodian on <i>JOIDES Resolution</i> until February crew change	1–28 February 2006	Galveston, Texas	L. Hawkins	TAMU
Meeting with Epoch Well Services	6 February 2006	Houston, Texas	L. Chen, K. Grigar, D. Hornbacher, G. Pollard, D. Schroeder	TAMU
Meeting with M/D Totco	9 February 2006	Austin, Texas	L. Chen, K. Grigar, D. Hornbacher, G. Pollard, D. Schroeder	TAMU
EDP Workshop	9 February 2006	Houston, Texas	B. Mills	TAMU
Programmatic Environmental Impact Statement (PEIS) Scoping Meeting #1	14–16 February 2006	San Diego, California	D. Divins, F. Rack	JOI
Juan de Fuca II Expedition Planning Meeting	15–16 February 2006	College Station, Texas	A. Fisher	TAMU
Juan de Fuca II Expedition Planning Meeting	15–17 February	College Station, Texas	G. Iturrino	LDEO
Public Hearings on Environmental Impact Statement (EIS)	15–16 February 2006	San Diego, California	D. Johnson	TAMU
PEIS Scoping Meeting #2	16–17 February 2006	College Station, Texas	M. Morell, F. Rack	JOI
Operations Review Task Force (ORTF) Meeting (Expeditions 303/306)	19–22 February 2006	College Station, Texas	S. Higgins	LDEO
ORTF Meeting (Expeditions 303/306)	20–22 February 2006	College Station, Texas	F. Rack	JOI
Site Survey Panel (SSP) Meeting	21–25 February 2006	San Diego, California	Adam Klaus	TAMU
PEIS Scoping Meeting #3	23–25 February 2006	Silver Springs, Maryland	D. Johnson	TAMU
Meeting with agent on demobilization labor/equipment cost	23–24 February 2006	Galveston, Texas	R. Mitchell	TAMU
Meeting with staff for evaluations and crossover	27–28 February 2006	Galveston, Texas	B. Julson	TAMU
USIO NanTroSEIZE Expedition Planning Meeting	1–4 March 2006	College Station, Texas	G. Guerin	LDEO
USIO NanTroSEIZE Expedition Planning Meeting	1–4 March 2006	College Station, Texas	D. Saffer, R. Stephen, M. Underwood	TAMU
Interview at USIO/IODP	2–4 March 2006	College Station, Texas	S. Zeliadt	TAMU
Implementing Organization (IO) and Science Planning Committee (SPC) Meetings	4–10 March 2006	St. Petersburg, Florida	J. Baldauf	TAMU

Purpose	Date	Location	Personnel	Institution
IO and SPC Meetings	4–8 March 2006	St. Petersburg, Florida	J. Fox	TAMU
IO and SPC Meetings	4–7 March 2006	St. Petersburg, Florida	Ann Klaus	TAMU
IO and SPC Meetings	5–9 March 2006	St. Petersburg, Florida	D. Goldberg, A. Malinverno	LDEO
IO and SPC Meetings	7–10 March 2006	St. Petersburg, Florida	D. Divins, F. Rack	JOI
HazMat Training, Dangerous Goods, Inc.	5–11 March 2006	Las Vegas, Nevada	S. Dillard	TAMU
SeaCon Subsea Visualization Plant Visit	10 March 2006	Bellville, Texas	D. Ferrell, K. Graber, D. Schroeder	TAMU
Microsoft Seminars	14 March 2006	Austin, Texas	P. Clark	TAMU
Relocation to College Station, Texas	14 March 2006	College Station, Texas	B. Weymer	TAMU
Visit to IODP offices and Gulf Coast Repository	15–16 March 2006	College Station, Texas	K. Curtis	TAMU
Meeting with Brad Julson to review technical status	15–16 March 2006	College Station, Texas	J. Kotze	TAMU
Expeditions 309/312 Postcruise Meeting	16–25 March 2006	College Station, Texas	K. Petronotis	TAMU
Expeditions 309/312 Postcruise Meeting	17–31 March 2006	College Station, Texas	F. Einaudi	LDEO–LGHF
Expeditions 309/312 Postcruise Meeting	18–25 March 2006	College Station, Texas	M. Reichow	LDEO–Leicester
Expeditions 309/312 Postcruise Meeting and IODP-USIO FY07 Annual Program Plan Development	18 March–2 April 2006	College Station, Texas	G. Lowe	TAMU
JOI Alliance Meetings for FY07 Budgets and Annual Program Plan Development	18–30 March 2006	College Station, Texas	D. Divins	JOI
JOI Alliance Meetings for FY07 Budgets and Annual Program Plan Development	18–25 March 2006	College Station, Texas	F. Rack	JOI
PhotoShop Training	20–24 March 2006	Miami, Florida	J. Beck, B. Crawford, T. Fulton	TAMU
CoreWall Meeting	22–28 March 2006	Chicago, Illinois	S. Higgins	LDEO
Advanced Excel Training	22–27 January 2006	Washington, DC	B. Skopik	TAMRF
Orion Design and Implementation Workshop	25–30 March 2006	Salt Lake City, Utah	S. Bohlen, F. Rack	JOI
Orion Design and Implementation Workshop	26 March–3 April 2006	Salt Lake City, Utah; Bremen, Germany	J. Fox	TAMU
German IODP Colloquium	27–29 March 2006	Greifswald, Germany	J. Arnold	LDEO–Aachen
Internet Security Forum	27–28 March 2006	Austin, Texas	C. Flores, M. Mefferd	TAMU
USIO Management Team Meeting	29 March–1 April 2006	Salt Lake City, Utah	J. Baldauf, Ann Klaus	TAMU
USIO Management Team Meeting	29 March–1 April 2006	Salt Lake City, Utah	F. Rack	JOI
USIO Management Team Meeting	30–31 March 2006	Salt Lake City, Utah	S. Bohlen	JOI

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

APPENDIX F: DATA REQUESTS

TAMU Janus Web Database statistics are not included for this reporting period because of recently identified problems with the Web Trends software. Web Trends is expected to be functional in early May 2006. Statistics for the FY06 Q2 period will be available in the FY06 Q3 report.

Data Requests to Data Librarian	
Requests	Total
Country:	
United States	28
Japan	5
France	3
Germany	3
Netherlands	2
Canada	1
New Zealand	1
Tunisia	1
United Kingdom	1
Total	45
Data:	
Data request	17
DB query problem/question	12
Photo request	11
Data correction	2
Moratorium log-in problem	2
Data question	1
Total	45

Note: Numbers for this reporting period reflect e-mail or phone requests only.

IODP-USIO Science Services, LDEO, Logging Data Requests		
Expedition	Request Number, Name, Affiliation, Country	Type of Data
312	U1316C, M. Tingay, Univ. Fridericiana, Germany	All
312	U1317D, M. Tingay, Univ. Fridericiana, Germany	All
312	U1318B, M. Tingay, Univ. Fridericiana, Germany	All
312	1256D, M. Reichow, Univ. Leicester, UK	All

APPENDIX G: SAMPLE REQUESTS

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
East Coast Repository:			
		20197G, Bohaty, Zachos, USA	181
		20488B, Ravizza, USA	15
		20699B, Harding, Eldrett, United Kingdom	155
		20699B, Harding, Eldrett, United Kingdom	11
		20700B, Raymo, Costanza, USA	303
		20815B, Spezzaferri, Switzerland	3
	2	20849A, Dowsett, Robinson, USA	149
		20851A, Elderfield, Tripati, United Kingdom	152
	1	20862A, Hoenisch, USA	43
		20866A, Jenkyns, Sinninghe Damste, United Kingdom	21
	1	20870A, Robinson, USA	818
		20874A, Bahr/Arz/Lamy, Germany	23
		20877A, Turchyn, DePaolo, USA	61
	1	20882A, Rosenthal, Sosdian, USA	144
	1	20883A, Montanez, Bralower, Li, USA	229

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
		20913A, Potter, Australia	2
		20916A, Bao, USA	12
		20919A, Haig, Thomas, Australia	35
Total science	6	18	2357
Total education			
Total PR			
Total:	6	18	2357
Gulf Coast Repository:			
		20664A, Holbourn, Germany	120
		20086B, Piotrowski, United Kingdom	122
		20141B, Ravizza, USA	8
		20197G, Bohaty, Zachos, USA	125
		20198C, Cappellacci, Spezzaferri, Tamburini, Switzerland	12
		20414B, Lamy, Germany	7
		20460B, Herbert, Cleaveland, USA	701
		20470G, Lyle, Lyle, Ravelo, USA	69
		20489B, Galbraith, McKay, Canada	113
		20588B, Fantle, USA	5
		20593C, Durand, USA	16
		20602C, Crispini, Italy	2
		20603D, Dwyer, USA	581
		20639A, Osawa, Suetani, Kato, Japan	197
		20640A, Muta, Osawa, Nakamura, Japan	136
		20643B, Goullan, France	79
		20723B, MacLeod, USA	7
		20728B, Schneider, USA	3
		20744A, Arnold, Germany	8
		20780D, Koepke, Germany	26
		20790B, Agnihotri, Altabet, USA	149
		20795A, Yan, Paytan, USA	127
		20807A, Meyzen, Albarede, Reynard, France	9
		20808A, Dawber, Elderfield, Tripathi, United Kingdom	34
		20809A, Paytan, Erohina, USA	105
		20812A, Smittenberg, Eglinton, Sinnnighe Damste, USA	4
		20814A, Maurya, India	194
		20815A, Spezzaferri, Switzerland	4570
		20816A, Richaud, Soon, USA	75
		20818B, Lees, United Kingdom	2
		20822A, Kirkwood, deMenocal, USA	343
		20832A, Turchyn, Schrag, USA	27
		20835A, Whaley, Sautter, USA	10
		20836A, Toyoda, Nagashima, Japan	20
		20838A, Rea, Abrajevitch, USA	10
		20841A, Clarke, Wales United Kingdom	24
		20842A, Shimada, Japan	110
		20843A, Sangiorgi, Brinkhuis, Donders, Netherlands	61
		20846A, Gibbs, Wilson, Edgar, United Kingdom	82
		20847A, Fang, China	439
		20851A, Elderfield, Tripathi, United Kingdom	89
		20857A, Moss, Jacobsen, Australia	10
		20867A, Kahn, USA	154
		20869A, Winckler, Anderson, USA	32
		20871A, Robinson, Bown, United Kingdom	162
		20873A, Morris, Gill, USA	60
		20879A, Sharp, USA	6
		20880A, Peucker-Ehrenbrink, USA	19
		20881A, Dickens, USA	30
		20884A, Helenes, Zegarra, Mexico	164
		20887A, Ferdelman, Ferdelman, Contreras, Germany	28
		20893A, Hastedt, USA	5
		20895A, Bartolini, Clemence, Gardin, France	7
		20897A, Peate, Ukstins, USA	3
		20911A, Notsu, Shimizu, Japan	29
Total science	0	54	9410

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
Total education:			
Total PR:			
Total:	0	54	9410
West Coast Repository:			
		20086B, Piotrowski, United Kingdom	38
		20141B, Ravizza, USA	54
		20723B, MacLeod, USA	8
		20833A, Oda, Sato, Chiyonobu, Japan	127
		20848A, Getty, USA	2
		20851A, Elderfield, Tripathi, United Kingdom	30
		20855A, D'Hondt, Schrum, USA	32
		20864A, Turner, Australia	2
		20902A, Lyle, Lyle, USA	361
		20913A, Potter, Australia	4
		20914A, Robinson, Ravizza, USA	10
		20916A, Bao, USA	23
		20920A, Heydolph, Hoernle, Germany	12
	80	20876A, Trujillo, USA	
Total science:		13	704
Total education:	80	1	
Total PR:			
Total:	80	14	704

APPENDIX H: PUBLICATIONS

Publication	Release Date	URL
<i>Proceedings of the Integrated Ocean Drilling Program:</i>		
Expedition 302 (ACEX)	7 March 2006	http://iodp.tamu.edu/publications/exp302/302toc.htm

APPENDIX I: WEB

We did not perform an analysis of this quarter's Web access statistics averages because of the unavailability of the TAMU numbers, which usually correspond to ~75% of the traffic. Statistics for the FY06 Q2 period will be available in the FY06 Q3 report.

USIO

FY06 Q2 USIO Web Site (www.iodp-usio.org + iodp.tamu.edu + iodp.ldeo.columbia.edu)				
Parameter	JOI	LDEO	TAMU [†]	Totals
Page views	21,103	4,861	N/A	N/A
Site visits*	12,952	4,781	N/A	N/A

*Where possible, visits by USIO employees and search engine spiders and robots have been filtered out.

†TAMU statistics are not available for this quarter as a result of a software problem.

New Web Pages	Release Date	URL
Database: migration update	Jan 2006	http://iodp.tamu.edu/database/migration.html
Publications: citation updates	Jan 2006	http://iodp.tamu.edu/publications/citations.html
Science: Site 1256 Summary	Jan 2006	http://iodp.tamu.edu/scienceops/sitesumm/312_shiprep.html
Education: career profiles	Feb 2006	http://www.usssp-iodp.org/Education/careerprofiles.html
Publications: 302 Proceedings	Mar 2006	http://iodp.tamu.edu/publications/exp302/302toc.htm
Logging Summary Expedition 308	Mar 2006	http://iodp.ldeo.columbia.edu/LOG_SUM/308/exp308.html

APPENDIX J: CORE REPOSITORY CONSOLIDATION

During the week of 27 February 2006 through 5 March 2006, representatives from IODP-MI, CDEX, and the USIO staff in College Station, Texas, met to discuss the training requirements and details of the implementation plan for the DSDP/ODP Core Redistribution Project.

APPENDIX K: EDUCATION

U.S. education activities are supported by NSF through SIC funding. These activities are not included in the POC and SOC budgets.

JOI LEARNING

EDUCATION VISUAL IDENTITY

The development of the *JOI Learning* visual identity was finalized and implementation was initiated to establish *JOI Learning* as a brand name for quality education materials. *JOI Learning* incorporates education products, materials, and services produced by all JOI programs, which includes the USIO. All the JOI programs recognize that a single visual identity is critical for the education audience, whose primary mission is to identify high-quality materials based on real data sets and research activities.

INVENTORY AND EVALUATION

As part of the process of inventory and evaluation of *JOI Learning*, the College of Exploration (<http://www.coexploration.org/>) completed two online focus group sessions and a survey of the users of *JOI Learning* materials and workshop participants. Ninety-eight survey participants (13% return) responded to a fifty-question survey that has now been compiled and analyzed. A draft of the final report and recommendations has been received. Although the U.S. Science Support Program (USSSP) funded the strategic evaluation, the evaluation included materials and programs funded by the USIO and the results will be used for future program development.

MATERIALS DEVELOPMENT AND EDUCATION PROGRAMS

SCHOOL OF ROCK EXPEDITION

Postexpedition work during the quarter in support of the pilot program *School of Rock: An Ocean-going, Hands-on Expedition for Earth and Ocean Science Educators* included the editing and publishing of 15 new Career Profiles and completion of 7 of 12 sections of the *School of Rock* library (<http://www.joilearning.org/schoolofrock>) that included detailed background information and science activities linked to related drilling program data and publications. In January 2006, the program was highlighted in presentations for NSF Program Managers and at the U.S. Advisory Committee for Scientific Ocean Drilling (USAC) meeting. Related to this pilot program, a story about Joe “Bubba” Attryde, *JOIDES Resolution* Toolpusher and Core Technician, was written for the Smithsonian’s science book series for third- and fourth-grade audiences. In addition, a manuscript titled “The School of Rock Expedition: Education and Science Connect at Sea Aboard the U.S. Scientific Drilling Vessel” was submitted to *Eos*.

TEACHER AT SEA PROGRAM

Teacher-at-Sea Alan Gelatt attended the Expedition 309/312 postcruise meeting on 20–22 March 2006. Gelatt interacted with science party members and learned about their postexpedition research, participated in a postexpedition program assessment, and worked with USIO staff on

the development of a poster about cores recovered during Expedition 309 that will include six classroom laboratory activities.

OUTREACH AND MATERIALS DEVELOPMENT

As part of the Montgomery County Math and Science Partnership, *JOI Learning* worked with Dr. M. Leckie to develop a presentation of ocean drilling results and educational materials during a workshop for ~75 Earth and space science teachers and matter and energy teachers. In addition, new classroom activities, information sheets, and outreach materials were developed in preparation for the April 2006 National Science Teachers Association (NSTA) annual conference.

HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP

To promote the 2006 fellowship opportunities, fact sheets were distributed to provosts and department chairs in appropriate fields at the three target Historically Black Colleges and Universities (HBCU) institutions: Howard University, Prairie View A&M University, and Texas Southern University. Two applications from Howard University were received for the 2006 HBCU Fellowship, one in the area of communications and one in the area of education. Interviews with the applicants will take place in the next quarter.

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

Planning was initiated in March 2006 for seven students from the Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science Initiative (MS PHD) Professional Development Program to attend the Science Steering and Evaluation Panel (SSEP) Meeting in Potsdam, Germany. The group will include one undergraduate student and six graduate students. Four of these students are African American; two are Puerto Rican. The USIO is providing funds for the travel costs associated with this activity.

OCEANS OF OPPORTUNITY: ENHANCING AFRICAN AMERICAN PARTICIPATION IN THE MARINE SCIENCES

Curatorial staff from the USIO created three core model replicas of the K/T Boundary core from ODP Leg 171B as part of JOI's contribution to the Oceans of Opportunity partnership with Savannah State University and Georgia State University. JOI covered the costs associated with the development of the core models.

SUPPLEMENTAL EDUCATION FUNDING

In March 2006, a proposal was submitted to NSF Program Solicitation 06-515—Next Generation GLOBE, titled “Investigating Earth Systems History, Next Generation GLOBE Links with Scientific Ocean Drilling.” This proposal expands the *School of Rock Expedition* model to provide teacher professional development, student learning activities, and related scientist-to-student communications over a four-year period. USIO staff coordinated other grant proposal initiatives with the Consortium for Oceanographic Research and Education (CORE) and Centers for Ocean Science Education Excellence (COSEE).

APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

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