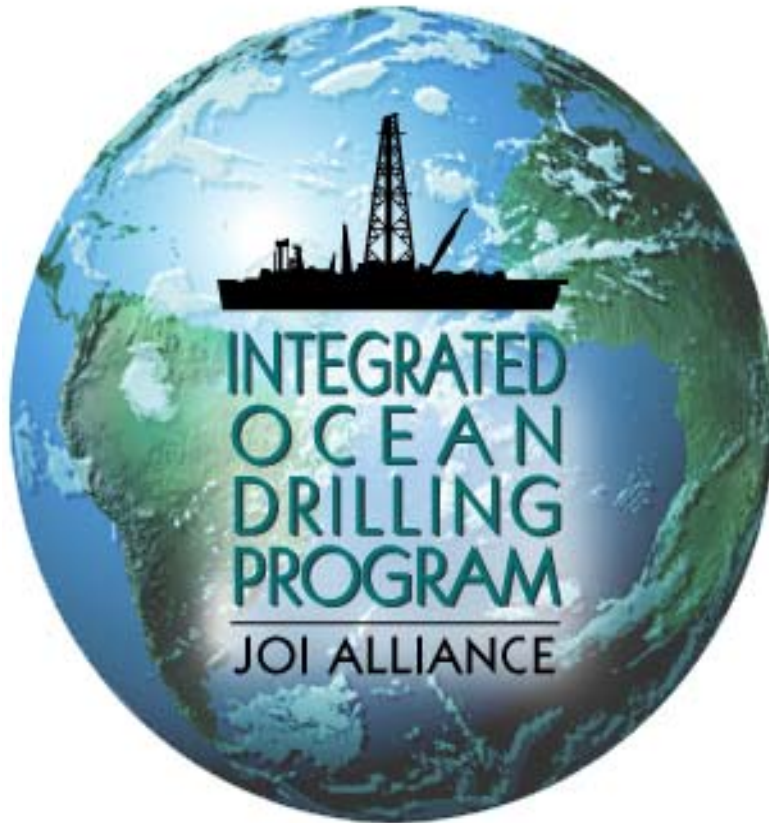


14 February 2007



1 October–31 December 2006

FY07 Quarterly Report 1

NSF Contract No. OCE-0352500

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

and

IODP Management International, Inc.

TABLE OF CONTENTS

INTRODUCTION.....	4
EXPEDITION OPERATIONS.....	4
EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES.....	4
INSURANCE RELATED TO JOI SUBCONTRACTS	5
ENVIRONMENTAL ASSESSMENT	5
IODP-USIO <i>JOIDES RESOLUTION</i> PHASE 1 DEMOBILIZATION.....	5
ENGINEERING AND TECHNOLOGY DEVELOPMENT.....	5
PROJECTS AND OTHER ACTIVITIES	5
INFORMATION TECHNOLOGY	7
PROJECTS AND OTHER ACTIVITIES	7
HEALTH, SAFETY, AND ENVIRONMENT	8
PROJECTS AND OTHER ACTIVITIES	8
REPORTS/PUBLICATIONS.....	8
IODP-USIO REPORTS.....	8
IODP SCIENTIFIC PUBLICATIONS.....	8
PROJECTS AND OTHER ACTIVITIES	8
EDUCATION AND OUTREACH	9
PUBLIC AFFAIRS	9
EDUCATION OUTREACH/CONFERENCES.....	12
IODP-USIO WEB SITE	13
USIO INTERACTIONS WITH IODP-MI AND IMPLEMENTING ORGANIZATIONS	13
MEETINGS.....	13
APPENDIX A: CONTRACTUAL ACTIVITIES	16
APPENDIX B: FINANCE REPORT	17
APPENDIX C: PERSONNEL STATUS	59
APPENDIX D: CONFERENCE AND MEETING SCHEDULE	60
APPENDIX E: TRAVEL.....	60
APPENDIX F: DATA REQUESTS.....	64
APPENDIX G: SAMPLE REQUESTS	66
APPENDIX H: PUBLICATIONS	68
APPENDIX I: WEB.....	68
APPENDIX J: DSDP/ODP CORE REDISTRIBUTION PROJECT.....	69
APPENDIX K: EDUCATION AND OUTREACH	69
APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST	71

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) FY07 Annual Program Plan as implemented during the first quarter of FY07 by the USIO, which is composed of Joint Oceanographic Institutions, Inc. (JOI), and its partners, Texas A&M University (TAMU) and Lamont Doherty Earth Observatory (LDEO) of Columbia University.

EXPEDITION OPERATIONS

EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES

IODP-USIO PACIFIC EQUATORIAL AGE TRANSECT 1 AND 2 EXPEDITIONS

Expedition Planning: The pre-expedition meeting was scheduled for 8 and 9 February 2007.

Expedition Staffing: Two Co-Chief Scientists accepted invitations for Pacific Equatorial Age Transect 1 Expedition, and one Co-Chief Scientist accepted an invitation for Pacific Equatorial Age Transect 2 Expedition. The call for applications for these expeditions was released 15 October 2006.

NANTROSEIZE PROJECT STAGE 1 EXPEDITIONS

NanTroSEIZE Project Management Team Meeting: A Nankai Trough Seismogenic Zone Experiment (NanTroSEIZE) Project Management Team (PMT) Meeting was held 9 and 10 December 2006 in San Francisco, California (see “Appendix E” for list of USIO attendees). Primary meeting topics included coordinating Stage 1 staffing, finalizing site locations for presentation to the Environmental Protection and Safety Panel (EPSP), developing a coordinated Stage 1 alternate and contingency site operations plan, and implementing coordinated Stage 1 sampling/data access, research, publications, and moratoriums. USIO liaisons discussed expedition project status and provided input on long-term monitoring planning.

Expedition Staffing: Two hundred twenty-two science applications for the five USIO and Center for Deep Earth Exploration (CDEX) NanTroSEIZE Project Stage 1 expeditions were received from the Program Member Offices (PMOs). USIO staff, Co-Chief Scientists, and the NanTroSEIZE PMT began application review and discussion.

IODP-USIO NANTROSEIZE 1 EXPEDITION

Expedition Planning: The pre-expedition meeting was held 7 and 8 December 2006 to finalize operational plans.

IODP-USIO NANTROSEIZE 2 EXPEDITION

Expedition Planning: The pre-expedition meeting was held 6 and 8 November 2006, and an engineering design review meeting was held 7 November 2006.

Engineering Design/Technology: Design work on the stacked advanced circulation obviation retrofit kit (ACORK)/circulation obviation retrofit kit (CORK) II wellhead is nearing completion. The overall design concept for the seafloor observatory was completed and frozen and we began the transition into the detailed design phase. Two USIO engineers traveled to Japan in early December 2006 to work with the science Principal Investigator, F. Araki of the Japan Agency for Marine-Earth Science and Technology (JAMSTEC) and the manufacturers of the observatory downhole geophysical instrumentation. Meetings were held with the remotely

operated vehicle (ROV) teams for *Hyper-Dolphin* and *Kaiko 7000* concerning observatory intervention and the designers of the downhole strainmeter package to resolve interface issues. A meeting with the supplier of the subsea electrical connectors and cables was scheduled for January 2007.

IODP-USIO JUAN DE FUCA HYDROGEOLOGY 2 EXPEDITION

Expedition Planning: Plans were made to schedule a preliminary engineering planning meeting in the second quarter of FY07 to review engineering design work and to ensure proper budgeting for FY08.

Expedition Staffing: One Co-Chief Scientist staffing invitation was accepted.

Engineering Design/Technology: Preliminary design work continues on the CORK IIs to be deployed during the expedition.

INSURANCE RELATED TO JOI SUBCONTRACTS

On behalf of USIO-TAMU, the Texas A&M Research Foundation (TAMRF) procured the following in support of ship operations:

- Pollution coverage for the *JOIDES Resolution* in the shipyard for the period of 22 December 2006–1 November 2007,
- Hull and machinery and war coverages for the period of 15 December 2006–30 September 2008,
- An increase in the value of the hull and machinery coverage, and
- A package policy (cargo, owned or third-party equipment, control of well, excess liabilities) for the period of 1 October 2007–30 September 2008.

ENVIRONMENTAL ASSESSMENT

An independent consultant completed an analysis of seismic data for shallow gas hazards for the Canterbury Basin proposal. The reported information and data were reviewed by the EPSP and the TAMU Safety Panel. Both panels concluded that some sites should be relocated, but that Canterbury was a viable proposal and could be slated as an expedition.

IODP-USIO JOIDES RESOLUTION PHASE 1 DEMOBILIZATION

Upon completion of the final inventory, an invoice was submitted to Ocean Drilling Limited (ODL) for items used during ODL's India Hydrate Project. That invoice was paid in November 2006.

The Wireline Heave Compensator was removed from the *JOIDES Resolution* in Singapore and began its transit to the United States.

ENGINEERING AND TECHNOLOGY DEVELOPMENT

PROJECTS AND OTHER ACTIVITIES

USIO-TAMU ENGINEERING SERVICES

Simulated Borehole Test Facility: A used sediment (clay) mixer was received in October 2006 for the Simulated Borehole Test Facility. The mixer was modified, refurbished, and made ready

for use. The design for the sediment consolidation chamber was completed and parts were received in December 2006.

Common Downhole Data Logger: The design of the data logger has converged with the selection of an analog-to-digital converter component that has existing software libraries for use with the Persistor central processing unit (CPU) board.

Calibration Laboratory: The annealing furnace and DewQ temperature and humidity monitor ordered in late FY06 were received in November 2006. Development began for procedures for testing temperature standards against the triple point of water. A dewar and an ice crusher were purchased to facilitate maintaining a stable triple point. Modifications to the calibration laboratory structure are awaiting a final bid from an outside contractor.

Downhole Sensor Sub: One Downhole Sensor Sub (DSS) tool was delivered to IODP-TAMU in November 2006. Good weight-on-bit/torque-on-bit calibration measurements were observed after the shipment.

USIO-TAMU ANALYTICAL SERVICES

IODP Sample Material Curation System–Central Inventory: The contractor began development of the user interface to the inventory. A Representational State Transfer (REST) function to simulate the inventory data was installed on the Janus database.

USIO-LDEO ENGINEERING AND TECHNICAL SERVICES

Environmental Qualification Facility: The Environmental Qualification Facility previously included the capacity for temperature (250°C) and pressure (10 kpsi) qualifications. Equipment ordered in late FY06, including a high-volume air compressor that was received this quarter and a pneumatic shock machine that will be delivered next quarter, will enable the testing of thousands of cycles of 2 ms 250G half-sine pulses, in line with industry testing of downhole logging tools.

Modular High-Temperature Tool: Machining, including design updates and revisions, was completed for most components of a second modular high-temperature tool.

Logging-While-Coring Project: Documents and schematics concerning the motor-driven core barrel system were obtained this quarter from USIO-TAMU as a first step in the logging-while-coring (LWC) project. LWC enables core recovery while simultaneously acquiring high-resolution resistivity and gamma ray logging-while-drilling measurements. The LWC project will address the primary shortcomings of the prototype LWC system that was deployed on Ocean Drilling Program (ODP) Legs 204 and 209 by building a core tube specifically designed to improve core quality and quantity.

USIO-LDEO SCIENCE SERVICES

Core-Log Integration Platform Software: The new Core-Log Integration Platform (NCLIP) Software Beta Update 1.02 was released for comments and was demonstrated at the 2006 American Geophysical Union (AGU) Fall Meeting.

INFORMATION TECHNOLOGY

PROJECTS AND OTHER ACTIVITIES

USIO-TAMU INFORMATION TECHNOLOGY AND DATA SERVICES

Inventory Asset Management System: The Inventory Asset Management System (AMS) currently under development will operate as a single, fully integrated ship- and shore-based system that performs requisitioning, inventory control, and shipping functions. This system is being developed by Raja Consultancy and Imports (RCI) of Plano, Texas. Development work started in June 2006, and is targeted for completion in June 2007.

The AMS is being developed as a Web-based application, using Microsoft .Net and C# programming languages and the SQL Server database. The basic framework of the application was developed in late FY06, and administrative screens for lookup tables were completed. Two new modules, ORDER and INVENTORY, were completed and the WAREHOUSE module was partially completed during this quarter.

Storage Area Network: The existing storage area network was expanded to a full (RAW) 14 terabytes. Two additional LTO2 tape drives were acquired and installed to handle the additional data backups.

CommVault Server: The server for the newly acquired enterprise backup software was installed.

Virtualization: A virtual server was built on an underutilized platform to fulfill the USIO's need for a server to be used for development and testing of new applications, thus reducing the implementation cost of a unique development server to just the cost of software licenses.

ANDRILL Development Environment: The USIO-TAMU Tools and Analytical Services Department (TAS) reached an agreement with Antarctic Geological Drilling (ANDRILL) to test the Laboratory Information Management System (LIMS) and newly developed applications for TAS using an environment that would be visible on the Internet from behind the TAMU firewall. A temporary environment was constructed, the major components of which included three servers (Linux, Windows, and Solaris) with the LIMS, Oracle, Crystal Reports, Apache, and Tomcat applications installed.

Web Services: A Web site was created to host all IODP publications (<http://publications.iodp.org>). A domain was established and the Web server configured with appropriate directories for content.

Operational Support: A help desk management software package called HelpSTAR was procured and integrated into the USIO-TAMU computing environment that will allow help desk customers to log and track calls via a Web browser.

USIO-LDEO INFORMATION SERVICES

Log Database Replacement: Work continued on the project to transition to a relational database for logging metadata. The database schema for Phase 1 was finalized. Initial database and tables were created and populated with existing logging catalog information. Minor data discrepancies were corrected during loading of data to tables. The beta version of the Web search interface was developed and internal testing began. Discussions began and are ongoing with USIO-TAMU Web services to allow queries between the USIO databases as needed.

HEALTH, SAFETY, AND ENVIRONMENT

PROJECTS AND OTHER ACTIVITIES

IODP-USIO HEADQUARTERS, TAMU

HSE-Related Document Access System: Evaluation of health, safety, and environment (HSE) aspects of equipment use began, and discussions began regarding how HSE warnings could be embedded in procedures being developed by the USIO.

Building Security: Security cameras were installed to cover major entry areas to the USIO-TAMU facilities. Development of a card access system began and implementation is expected during the second quarter of FY07.

REPORTS/PUBLICATIONS

IODP-USIO REPORTS

FY06 IODP QUARTERLY REPORT

The IODP-USIO report for the fourth quarter of FY06 (July–September 2006) was submitted to National Science Foundation (NSF) and IODP Management International, Inc. (IODP-MI), on 17 November 2006.

FY06 ANNUAL REPORT

Production of the IODP-USIO FY06 Annual Report continued with development, review, and revision.

IODP SCIENTIFIC PUBLICATIONS

PROCEEDINGS OF THE INTEGRATED OCEAN DRILLING PROGRAM

Volume 307 (Modern Carbonate Mounds: Porcupine Drilling): Published on 14 October 2006 (see “Appendix H”).

Volume 311 (Cascadia Margin Gas Hydrates): Published on 28 October 2006 (see “Appendix H”).

Volume 309/312 (Superfast Spreading Rate Crust 2 and 3): Published on 28 December 2006 (see “Appendix H”).

PROJECTS AND OTHER ACTIVITIES

IODP PUBLICATIONS SERVER HOSTED BY THE USIO

On 6 October 2006, H. C. Larsen (Vice President of Science Planning, IODP-MI, Sapporo) announced IODP-MI’s decision that IODP scientific reports, the *Proceedings of the Integrated Ocean Drilling Program*, and the journal *Scientific Drilling* will be hosted by the USIO for at least FY07 and FY08, during which time the USIO will be responsible for providing technical editing and production of all IODP scientific reports and expedition publications. Larsen said implementation of the new publications server was expected at the start of 2007. The USIO submitted designs for the new publications Web site (www.publications.iodp.org) to IODP-MI in early December 2006. Review by IODP-MI and final implementation by the USIO was pending at the end of the quarter.

COPYRIGHT FORMS

In November 2006, the USIO evaluated a proposed waiver that would grant Staff Scientists assigned to IODP expeditions the right to sign copyright statements for IODP publications on behalf of expedition participants. IODP-MI developed the waiver in an effort to streamline the collection of copyright assignment forms from all authors of articles published in IODP's journal *Scientific Drilling* or chapters published in the *Proceedings of the Integrated Ocean Drilling Program*.

EDUCATION AND OUTREACH

PUBLIC AFFAIRS

USIO Communications and outreach activities this quarter focused on opportunities to publicize scientific ocean drilling through related publications and events with the goal of raising our public and media awareness.

Highlights include the following events:

- USIO produced and staffed a 200 square foot booth exhibit at the 2006 Geological Society of America (GSA) Annual Meeting and Exposition held 22–25 October 2006 in Philadelphia, Pennsylvania. Exhibit highlights included a 30 inch widescreen liquid crystal display (LCD) panel showing an ocean science slide show and a photomicrograph laminate floor.
- USIO produced and staffed a 300 square foot booth exhibit at the 2006 AGU Fall Meeting, held 11–15 December 2006 in San Francisco, California. Exhibit highlights included a 42 inch widescreen plasma display panel showing an ocean science slide show and a photomicrograph laminate floor highlighting activities and samples from past USIO expeditions, displays focused on upcoming expeditions, and the CoreWall visualization tool.
- Also at the 2006 AGU Fall Meeting, USIO Communications provided support as public information staff for the IODP Expedition 311 lead scientists, who were invited to give a press conference on their recent findings. At least 18 science journalists attended the press conference, representing such news outlets as *Time Magazine*, *BBC News*, *Discovery News*, *National Geographic*, *Nature*, and *Science*.

PUBLIC RELATIONS MATERIALS

The following media advisories were distributed this quarter:

- Sea-level Change Expert Speaks at University of North Carolina Wilmington (1 November 2006).
- Sea-level Change Expert Speaks at Savannah State University (8 November 2006).
- Extreme Life Under the Seafloor, Probing the Microbiology of Deeply Buried Marine Sediments (14 November 2006).
- Expert Scientist Availability Sessions, Ocean Sciences Research Community (8 December 2006).
- Informal Marine Geologist and Reporter Availability Sessions at AGU, Wednesday 12/13/06 (13 December 2006).

The following news releases were distributed this quarter:

- Microbiologist Dr. David Smith Gives Lecture at Koshland Science Museum (6 October 2006).
- Ocean Drilling Operations Are at Cutting Edge of Scientific Marine Research (24 November 2006).
- Sub-Seafloor Natural Gas Hydrate More Vulnerable to Climate Change than Previously Thought (8 December 2006).
- The Heartbeat of the Oligocene Climate System (21 December 2006).

Science articles authored by USIO staff published during this quarter include the following. Other Program-related science articles are available online through the ocean drilling citation database (iodp.tamu.edu/publications/citations/database.html) and the IODP Expedition-related bibliography (iodp.tamu.edu/publications/citations.html).

- Christie, D.M., Ildefonse, B., Abe, N., Arai, S., Bach, W., Blackman, D.K., Duncan, R., Hooft, E., Humphris, S.E., and **Miller, D.J.**, 2006. Mission Moho: formation and evolution of oceanic lithosphere. *Eos, Trans. Am. Geophys. Union*, 87(48):539. doi:10.1029/2006EO480005
- Ienaga, M., McNeill, L.C., Mikada, H., Saito, S., **Goldberg, D.**, and Moore, J.C., 2006. Borehole image analysis of the Nankai accretionary wedge, ODP Leg 196: structural and stress studies. *Tectonophysics*, 426(1–2):207–220. doi:10.1016/j.tecto.2006.02.018
- **Goldberg, D., Myers, G., Iturrino, G., Grigar, K., Pettigrew, T., and Mrozewski, S.**, 2006. Logging-while-coring—new technology for the simultaneous recovery of downhole cores and geophysical measurements. In Rothwell, G. (Ed.), *New Techniques in Sediment Core Analysis*. Geol. Soc. Spec. Publ., 267:219–228.
- Tréhu, A., Ruppel, C., Holland, M., Dickens, G., Torres, M., Collett, T., **Goldberg, D.**, Riedel, M., and Schultheiss, P., 2006. Gas hydrates in marine sediments: lessons from drilling. *Oceanography*, 19(4):76–94.
- **Williams, T.**, Kano, A., Ferdelman, T., Henriot, J.-P., Abe, K., Andres, M.S., Bjerager, M., Browning, E.L., Cragg, B.A., De Mol, B., Dorschel, B., Foubert, A., Frank, T.D., Fuwa, Y., Gaillot, P., Gharib, J.J., Gregg, J.M., Huvenne, V.A.I., Léonide, P., Li, X., Mangelsdorf, K., Tanaka, A., Monteys, X., Novosel, I., Sakai, S., Samarkin, V.A., Sasaki, K., Spivack, A.J., Takashima, C., and Titschack, J., 2006. Cold-water coral mounds revealed. *Eos, Trans. Am. Geophys. Union*, 87(47):525. doi:10.1029/2006EO470001

News articles, programs, media citations, or public commentary published during this quarter resulting from IODP media and public awareness efforts included the following. See the “IODP in the news” Web page (www.iodp-usio.org/Newsroom/news.html) for other articles that raise the profile of the Program.

- Amos, J., 2006. Methane ices pose climate puzzle. *BBC News*, 13 December 2006. <http://news.bbc.co.uk/2/hi/science/nature/6166011.stm>
- Astronomy, 2006. Earth’s crust explored. *Astronomy*, November 2006.
- *ASU News*, 2006. Geologist discusses global warming research Oct. 12. *University News, Appalachian State University*, 3 October 2006. <http://www.news.appstate.edu/2006/10/03/global-warming/>

- Chang, A., 2006. Thinning air smooths path for spacecraft. *Associated Press*, 12 December 2006.
- *China Daily*, 2006. China to play major role in ITER. *China Daily*, 30 November 2006. <http://www.china.org.cn/english/international/190664.htm>
- *Climos*, 2006. Dr. Margaret Leinen leaves National Science Foundation to join Climos. *Climos*, 5 December 2006. <http://www.climos.com/>
- *E&E News PM*, 2006. This afternoon's stories—natural gas: officials find gas hydrate off Canadian coast. *E&E News PM*, 13 December 2006.
- Fillmore, R., 2006. Marine science dean tells “bridge to doctorate” success story. *University of South Florida: newsatUSF*, 16 October 2006. <http://usfnews.usf.edu/page.cfm?link=article&aid=1465>
- Fischer, P.A. (Ed.), 2006. What's new in exploration: microbial mystery. *World Oil*, 227(10). http://www.compositecatalog.com/magazine/MAGAZINE_DETAIL.asp?ART_ID=3012&MONTH_YEAR=Oct-2006
- Jha, A., 2006. Discovery could lead to mining of solid gas for fuel. *The Guardian*, 13 December 2006. <http://www.guardian.co.uk/science/story/0,,1970881,00.html>
- Mervis, J., 2006. News of the week—ocean drilling: higher costs, accident imperil plans. *Science*, 314(5799):577. doi:10.1126/science.314.5799.577a
- National Science Foundation, 2006. NSF Assistant Director for Geosciences accepts position in industry. *National Science Foundation News*, 7 December 2006. http://www.nsf.gov/news/news_summ.jsp?cntn_id=108226
- *Nature*, 2006. Research highlights: laid bare. *Nature (London, U. K.)*, 443:608.
- O'Hanlon, L., 2006. Shallow gas hydrates offer mixed bag. *Discovery News*, 12 December 2006. http://dsc.discovery.com/news/2006/12/12/gashydrate_pla.html?category=earth
- Röhrlich, D., 2006. Eisknollen aus Wasser und Methan [Ice tubers from water and methane]. *Deutschland Radio*, 12 December 2006. <http://www.dradio.de/dlf/sendungen/forschak/573077/>
- Ruggiero, F., 2006. Creeping sea levels: geologist describes future scenarios. *Watauga Democrat*, 16 October 2006. <http://www.wataugademocrat.com/2006/1016web/creepingsealevels.php3>
- Stephens, T., 2006. Margaret Delaney receives outstanding faculty award. *UC Santa Cruz Currents online*, 30 October 2006. <http://currents.ucsc.edu/06-07/10-30/delaney.asp>
- Terra Daily, 2006. Professional fasters deep under the sea floor. *Terra Daily*, 6 December 2006. http://www.terradaily.com/reports/Professional_Fasters_Deep_Under_The_Sea_Floor_999.html
- Witze, A., 2006. Shallow fuels bring bad news; buried deposits of greenhouse gases may be more unstable than thought. *news@nature.com*, 12 December 2006. doi:10.1038/news061211-6

EDUCATION OUTREACH/CONFERENCES

2006 GSA Annual Meeting and Exposition: JOI Learning cosponsored a short course and co-hosted a topical session at the 2006 GSA Annual Meeting and Exposition held 22–25 October 2006 in Philadelphia, Pennsylvania. K. St. John (James Madison University) organized and team-taught the one-day, onshore School of Rock (SOR) Expedition extension titled “Using Authentic Scientific Ocean Drilling Data for Earth Systems Science Inquiry,” with fellow SOR facilitator M. Leckie (University of Massachusetts, Amherst) and R. Smith (South Hadley High School, South Hadley, Massachusetts), a participant in the SOR Expedition 2005. Participants in the one-day course included 22 middle school, high school, and college-level faculty, for whom EarthScope Education and Outreach Program provided scholarships. The workshop resulted in an invitation to present a three-day short course for teachers at Grand Valley State University in June 2007.

JOI Learning co-hosted the topical session titled “Using Large Experiments and Programs for Education and Outreach: Examples from EarthScope, the Joint Oceanographic Institutions, and Others” with the EarthScope Education and Outreach Program. Three speakers presented JOI Learning education programs. S. O’Connell (Wesleyan University) spoke about the Japan/U.S. Public Understanding of Research project undertaken with the Science Museum of Minnesota and Tokyo’s Miraikan Museum during Expedition 312 (http://buzz.smm.org/buzz/museum/ocean_drilling), A. Gelatt (Romulus Central School, Romulus, New York) introduced the new poster he designed during his Teacher-at-Sea experience during Expedition 309, and K. St. John spoke about her experiences interpreting ocean drilling program science for audiences with different skill sets and knowledge levels.

National Science Teachers Association Conferences: JOI Learning was a significant presence at the National Science Teachers Association (NSTA) Eastern Area Conference held 2–4 November 2006 in Baltimore, Maryland. SOR Expedition 2005 participants R. Smith and J. Marsteller (Hoover Middle School, Potomac, Maryland) presented a workshop based on the JOI Learning Web site and SOR activities, and J. Sharoff (Intern, JOI) presented the JOI Learning classroom activity “Ocean Drilling: Continents and Currents” at an event for 150 earth science teachers. Smith and Marsteller also helped man the booth, with assistance from Dr. M. Passow (President-elect, NSTA) and other area teachers.

Sharoff presented a demonstration at the NSTA Western Area Conference held 7–9 December 2006 and aided SOR Expedition 2005 participants V. Jones (Bonneville High School, Idaho Falls, Idaho) and R. Young (Gunn Junior High School, Arlington, Texas) with a short workshop based on SOR curriculum.

2006 AGU Fall Meeting: At the 2006 AGU Fall Meeting, JOI Learning and SOR were represented by posters and papers delivered by SOR Expedition 2005 participants J. Cook (Phoenix Country Day School, Paradise Valley, Arizona), R. Smith, H. Kortlandt (Otsego High School, Otsego, Michigan), and M. Whaley (Lowcountry Math and Regional Center, Summerville, South Carolina), and newcomer T. Prouhet (Texas A&M University, College Station, Texas). Their presentations were well received, and the five were also able to meet and work with CoreWall, Google Earth, and IODP-MI staff to improve and upgrade classroom activities they have developed.

IODP-USIO WEB SITE

Main activities during this quarter included setting up the IODP publications server (publications.iodp.org), creating Hypertext Markup Language (HTML) and graphics templates for uniform presentation of all IODP reports, and preparing the *Scientific Prospectus* and *Preliminary Report* documents for migration to the new server.

See “Appendix I” for new Web content and access statistics.

PUBLICATIONS

This quarter saw the publication of the Expedition 307, Expedition 311, and Expedition 309/312 volumes of the *Proceedings of the Integrated Ocean Drilling Program* (see “Appendix H” for dates and URLs).

IODP DATABASES

Janus Database: Data from Expeditions 309, 311, and 312 were made available to the public online.

Log Database: Log data from Expeditions 307, 309, 311, and 312 were made available to the public online. Logging summaries for Expeditions 309/312 were completed and made available online.

The existing IODP log data Web site continues to undergo revision. Additional original and processed data files in Digital Log Interchange Standard (DLIS) format, previously available only by request, have been added and are now routinely available.

USIO INTERACTIONS WITH IODP-MI AND IMPLEMENTING ORGANIZATIONS

MEETINGS

IODP-MI/USIO PUBLICATIONS MEETING

Management from IODP-MI’s Sapporo office met on 1 October 2006 in College Station, Texas, with representatives of USIO-TAMU’s Publication Services, Tools and Analytical Services, and Information Technology and Data Services departments to discuss USIO publications and information technology issues. Discussion topics included implementation of a single-server solution for hosting all IODP scientific reports and publications. This gathering was also used as an opportunity to have IODP-MI and USIO staff provided updates on the Scientific Earth Drilling Information Service (SEDIS) Phase II plans and asset management.

IODP-MI ENGINEERING TASK FORCE MEETING

The IODP-MI Engineering Task Force Meeting was held 2 and 3 October 2006 in Washington, D.C. (see “Appendix E” for list of USIO attendees). The USIO representative participated in discussions of the IODP-MI engineering vision, engineering development proposal process, IODP FY07 and FY08 engineering plan, and engineering best practices for IODP.

IODP-MI EDUCATION AND OUTREACH TASK FORCE MEETING

The IODP-MI Education and Outreach Task Force Meeting was held 11–13 October 2006 in Bremen, Germany (see “Appendix E” for list of USIO attendees). USIO attendees were able to establish direct connections with their education and outreach counterparts in the other IOs,

which will enable them to work together more productively as IODP moves toward having two to three platforms operating simultaneously. A joint communications plan was discussed for NanTroSEIZE and New Jersey Margins expeditions, and the USIO provided input to both.

IMPLEMENTING ORGANIZATION TECHNOLOGY AND OPERATIONS MEETING

An Implementing Organization (IO) Technology and Operations Meeting was held 16–19 October 2006 at CDEX and attended by members of the scientific and technical staff from all of the IOs (see “Appendix E” for list of USIO attendees). The focus of the meeting was to establish general communication pathways and contacts among the three IOs for operations, engineering, and technology; develop potential technology collaborations for FY08–FY10; and continue CDEX and USIO discussions on planning for the NanTroSEIZE Project Stage 1 expeditions, including pre-expedition meetings, staffing, operations, science research management, and publications.

IODP PUBLICATIONS ORIENTATION MEETING

A. Miller (Manager of Publication Services, USIO-TAMU) met with CDEX scientific staff on 18 and 19 October 2006 in Yokohama, Japan, to provide an orientation of IODP publication policy requirements, implementation standards, and production procedures. This orientation for CDEX Staff Scientists was scheduled in connection with the USIO being tasked with editing and production of IODP scientific reports and publications for all of IODP in FY07 and FY08. The meeting was also attended by a Staff Scientist from the European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO) and IODP-MI Sapporo staff.

IODP-MI QUALITY ASSURANCE/QUALITY CONTROL TASK FORCE MEETING

The IODP-MI Quality Assurance (QA)/Quality Control (QC) Task Force Meeting was held 7 and 8 November 2006 in Washington, D.C. (see “Appendix E” for list of USIO attendees). The primary focus of the meeting was to begin dialog and planning for definition of the IODP QA/QC vision and the QA/QC framework to be used by IODP and to identify priorities for establishing a Program-wide QA/QC program.

IODP-MI IMPLEMENTING ORGANIZATION MEETING

The IODP-MI IO Meeting was held 8 and 9 November 2006 in San Francisco, California (see “Appendix E” for list of USIO attendees). The primary focus of the meeting was the FY08 Annual Program Plan schedule, format, and work breakdown element definitions. The meeting also provided an opportunity to continue the development of working relationships between the IODP-MI and IO staff.

SCIENCE STEERING AND EVALUATION PANEL MEETING

The Science Steering and Evaluation Panel (SSEP) Meeting was held 13–16 November 2006 in Sapporo, Japan (see “Appendix E” for list of USIO attendees). Fifteen proposals were reviewed and a variety of issues affecting the review process were discussed, including the role of workshops, the status of mission proposals, and how best to evaluate complex drilling proposals. C. John (Staff Scientist, USIO-TAMU) gave the USIO presentation.

SCIENTIFIC TECHNOLOGY PANEL COMMITTEE MEETING

The Scientific Technology Panel (STP) meeting was held 7–9 December 2006 in San Francisco, California (see “Appendix E” for list of USIO attendees). P. Blum (Supervisor of Analytical

Services, USIO-TAMU) and S. Higgins (Logging Staff Scientist, USIO-LDEO) presented updates on current projects and general USIO programmatic information. They also participated in discussions related to the September 2006 IODP-MI meetings on depth scale classification, core description, and the use of paleontological taxonomy lists.

APPENDIX A: CONTRACTUAL ACTIVITIES

JOI

NSF CONTRACT OCE-0352500 WITH JOI

JOI received the following modifications during the reporting period.

- Modification 21: Provided \$9,932,055 in incremental funding for FY07 management and administration and platform operating cost (POC) activities.

JOI SUBCONTRACT JSC 4-03 WITH LDEO

JOI issued the following modifications during the reporting period.

- Modification 13: Approved the FY07 Annual Program Plan in the amount of \$2,362,262 and provided \$1,010,511 of incremental funding.

JOI SUBCONTRACT JSC 4-02 WITH TAMRF

JOI issued the following modifications during the reporting period.

- Modification 19: Realigned costs to decrease the total estimated cost of the contract in POC and systems integration contract (SIC) demobilization costs (SIC-D) with a commensurate increase to the total estimated cost of the contract in SIC nondemobilization (SIC-ND).
- Modification 20: Approved the FY07 Annual Program Plan in the amount of \$16,067,925, decreased the estimated cost to reconcile the preaward best-and-final-offer for FY07 with the approved FY07 Annual Program Plan, and provided \$8,903,208 of incremental funding.

LDEO

LDEO SUBCONTRACT WITH NEB

- Modification 3: Provided the first increment of funding (\$20,000) for FY07.

TAMRF

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

- 28 November 2006: Prior approval was received for continuation of the lease agreement with Columbia University for the East Coast Repository (ECR).

MISCELLANEOUS ACTIVITY

- 20 October 2006: The Federal Automotive Statistical Tool (FAST) Report was completed online.
- 31 October 2006: The FY06 294 and 295 small business reports were submitted.
- 31 October 2006: The FY06 Annual Property Report was submitted.

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 Program Associate (Margo Morell): 25 December 2006
- Historically Black Colleges and Universities (HBCU) Fellow (Quinn Conyers): 8 December 2006

The following positions were opened and advertised during the quarter:

- Education Associate

The following positions were filled during the quarter:

- Assistant Director (Margo Morell): 25 December 2006

LDEO

The following position was vacated during the quarter:

- Project Coordinator (Felicia Taylor): 13 October 2006

The following positions were opened and advertised during the quarter:

- Project Coordinator

The following positions were filled during the quarter:

- Electrical Engineer (Tarik Hussein): 16 October 2006

TAMU/TAMRF

Paula Clark, Marine Computer Specialist, died on 1 October 2006.

The following positions were vacated during the quarter:

- Curatorial Specialist (Rachel Culberson): 13 November 2006
- Administrative Assistant (Mariel Atkins): 15 December 2006

The following positions were opened and advertised during the quarter:

- Curatorial Specialists (3)
- Temporary Marine Laboratory Specialist
- Marine Computer Specialists (5)
- Research Specialist

The following positions were filled during the quarter:

- Executive Administrator (Bill Wasson): 2 October 2006
- Temporary Curatorial Specialist (Yasmin Yabyabin): 9 October 2006
- Research Specialist (Yulia Vasilyeva): 30 October 2006

- Budget Analyst (Tammy LaRue): 1 November 2006
- Temporary Marine Laboratory Specialist (Brad Weymer): 11 November 2006
- Assistant Laboratory Officer (Peter Kannberg): 13 November 2006
- Curatorial Specialist (Chad Broyles): 25 November 2006
- Systems Administrator (David Kratz): 4 December 2006
- Temporary Conference Coordinator: (Mariel Atkins): 15 December 2006

APPENDIX D: CONFERENCE AND MEETING SCHEDULE*

Conference/Meeting	Date	Location
Integrated Ocean Drilling Program Management International, Inc. (IODP-MI) Engineering Task Force Meeting	2 and 3 October 2006	Washington, D.C.
IODP-MI Education and Outreach Task Force Meeting	11–13 October 2006	Bremen, Germany
Implementing Organization (IO) Technology and Operations Meeting	14–20 October 2006	Tokyo, Japan
2006 Geological Society of America (GSA) Annual Meeting and Exposition	22–25 October 2006	Philadelphia, Pennsylvania
Science Advisory Structure Executive Committee (SASEC) Meeting	1 and 2 November 2006	Odawara, Japan
National Science Teachers Association (NSTA) Eastern Area Conference	2–4 November 2006	Houston, Texas
U.S. Implementing Organization (USIO) NanTroSEIZE Expedition 2 Pre-expedition Meeting	6–8 November 2006	College Station, Texas
IODP-MI Quality Assurance (QA)/Quality Control (QC) Task Force Meeting	6–8 November 2006	Washington, D.C.
IODP-MI IO Meeting	7–10 November 2006	San Francisco, California
Houston–Louis Stokes Alliance for Minority Participation National Conference	9–12 November 2006	Houston, Texas
Science Steering and Evaluation Panel (SSEP) Meeting	13–16 November 2006	Sapporo, Japan
USIO NanTroSEIZE Expedition 1 Pre-expedition Meeting	7 and 8 December 2006	College Station, Texas
National Science Teachers Association (NSTA) Western Area Conference	7–9 December 2006	Salt Lake City, Utah
Scientific Technology Panel (STP) Meeting	7–9 December 2006	San Francisco, California
NanTroSEIZE Project Management Team Meeting	9 and 10 December 2006	San Francisco, California
2006 American Geophysical Union (AGU) Fall Meeting	11–15 December 2006	San Francisco, California

*Implementing organization meetings, IODP-MI task force meetings, Science Advisory Structure (SAS) panel meetings, and scientific and educational conferences at which the USIO had a booth or exhibit.

APPENDIX E: TRAVEL *

Purpose	Dates	Location	Personnel	Institution
Ocean Drilling Program (ODP)/Integrated Ocean Drilling Program (IODP) Presentation to Society of Exploration Geophysicists International Exposition and Annual Meeting	1–3 October 2006	New Orleans, Louisiana	J. Fox	TAMU
IODP Management International, Inc. (IODP-MI) Engineering Task Force Meeting	1–3 October 2006	Washington, D.C.	D. Schroeder	TAMU
2006 Risk Management Conference	1–4 October 2006	Galveston, Texas	D. Johnson	TAMU
IODP-MI MBio Workshop	2–6 October 2006	Vancouver, British Columbia	J. Miller	TAMU

Purpose	Dates	Location	Personnel	Institution
IODP-MI/Joint Oceanographic Institutions, Inc. (JOI) Workshop on Subseafloor Life	2–7 October 2006	Vancouver, British Columbia	G. O'Mullan	LDEO
Lamont-Doherty Earth Observatory (LDEO) of Columbia University Logging Symposium	5–6 October 2006	Palisades, New York	J. Arnold, T. Brewer, J. Inwood, J. Lofi, A. Myers, Y. Nakamura, M. Reichow, J. Thompson, T. Tsuji, F. Williams	LDEO
LDEO Logging Symposium	5–6 October 2006	Palisades, New York	C. Zarikian	TAMU
Core Redistribution Review	6–8 October 2006	Palisades, New York	J. Fox	TAMU
Gartner Symposium ITxpo 2006	6–16 October 2006	Orlando, Florida	D. Becker	TAMU
Expedition 308 Second Postexpedition Meeting	7 and 8 October 2006	Granada, Spain	G. Iturrino	LDEO
Expedition 308 Second Postexpedition Meeting	7 and 8 October 2006	Granada, Spain	C. John	TAMU
Hart Scientific Temperature Metrology Seminar	8–13 October 2006	Salt Lake City, Utah	M. Meiring	TAMU
Creative Leadership Camp for Managers/Supervisors	10–13 October 2006	Denver, Colorado	I. Kindt	TAMRF
IODP-MI Director's Meeting	10–17 October 2006	Sapporo and Yokohama, Japan	J. Fox	TAMU
IODP-MI Education and Outreach Task Force Meeting	11–13 October 2006	Bremen, Germany	S. Boa, L. Peart	JOI
JOI Alliance Joint Engineering Team Meeting	12 October 2006	College Station, Texas	E. Meissner	LDEO
Conversion Management Team (CMT) Meeting**	12 and 13 October 2006	College Station, Texas	D. Divins	JOI
Implementing Organization (IO) Technology and Operations Meeting	14–19 October 2006	Yokohama, Japan	E. Meissner	LDEO
IO Technology and Operations Meeting	14–19 October 2006	Yokohama, Japan	M. Malone, J. Miller, D. Schroeder	TAMU
IO Technology and Operations and Kochi University Meetings	14–26 October 2006	Kochi, Japan	J. Baldauf	TAMU
IODP Publications Orientation Meeting	14–20 October 2006	Yokohama, Japan	A. Miller	TAMU
American Payroll Association Educational Institutions Payroll Conference	15–18 October 2006	Chicago, Illinois	C. Engledow	TAMRF
INMARTECH 2006: International Marine Technicians Symposium	16–20 October 2006	Boston, Massachusetts	A. Trefethen	TAMU
University of Houston Purchasing Classes	16–21 October 2006	Orlando, Florida	K. Lee	TAMU
2006 Gulf Coast Conference	17 October 2006	Galveston, Texas	C. Bennight, L. Brandt, T. Bronk, L. Crowder, B. Julson, B. Zunk	TAMU
Mac OS X Server Essentials Seminar	17–20 October 2006	New York, New York	T. Baker	LDEO
IODP-MI Review Committee Meeting	18–21 October 2006	Washington, D.C.	J. Fox	TAMU
Colorado Software Summit	21–28 October 2006	Keystone, Colorado	D. Hornbacher, B. Lambi, S. Zeliadt, J. Zhao	TAMU
2006 Geological Society of America (GSA) Annual Meeting and Exposition	22–25 October 2006	Philadelphia, Pennsylvania	S. Boa, J. Corsiglia, L. Peart, J. Sharoff, K. Sjo-Gaber	JOI

Purpose	Dates	Location	Personnel	Institution
TransOcean Health, Safety, and Environment (HSE) Meeting	25 October 2006	Houston, Texas	D. Johnson	TAMU
JASMT Meeting	26 October 2006	Washington, D.C.	D. Goldberg	LDEO
JASMT Meeting	26 October 2006	Washington, D.C.	J. Fox	TAMU
Women's Leadership Conference	28 October–2 November 2006	San Francisco, California	B. Skopik	TAMRF
National Science Foundation (NSF)/Japanese Ministry of Education, Culture, Sports, Science, and Technology (MEXT) Meeting	31 October 2006	Odawara, Japan	D. Divins	JOI
Science Advisory Structure Executive Committee (SASEC) Meeting	1 and 2 November	Odawara, Japan	D. Divins	JOI
Sun Solaris OS10 Updates and Training	1 and 2 November 2006	Houston, Texas	M. Hodge, M. Mefferd, D. Morley, A. Trefethen	TAMU
National Science Teachers Association (NSTA) Eastern Area Conference	2–4 November 2006	Baltimore, Maryland	L. Peart	JOI
InDesign Training and Presentation of GMT Class for USIO-TAMU Staff	2–10 November 2006	College Station, Texas	K. Petronotis	TAMU
IODP-MI Review Committee Meeting	3–9 November 2006	Sapporo, Japan	J. Fox	TAMU
Oracle Training	4–10 November 2006	San Francisco, California	B. Slone, E. Slone	TAMU
InDesign Conference	5–9 November 2006	Seattle, Washington	P. Edwards, K. Sherar	TAMU
U.S. Implementing Organization (USIO) NanTroSEIZE Expedition 2 Pre-expedition Meeting	6–8 November 2006	College Station, Texas	G. Guerin	LDEO
IODP-MI Quality Assurance (QA)/Quality Control (QC) Task Force Meeting	6–8 November 2006	Washington, D.C.	D. Houpt	TAMU
Offshore Communications 2006 Conference	6–9 November 2006	Houston, Texas	C. Flores, P. Gates	TAMU
Microscope Evaluation and Consulting	6–11 November 2006	College Station, Texas	E. Meylan	TAMU
Executive Administrator, Texas A&M Research Foundation (TAMRF), Transition Meeting with JOI	7–9 November 2006	Washington, D.C.	R. McPherson	TAMRF
IODP-MI IO Meeting	7–10 November 2006	San Francisco, California	D. Divins	JOI
IODP-MI IO Meeting	7–10 November 2006	San Francisco, California	D. Goldberg, M. Reagan	LDEO
IODP-MI IO Meeting	7–10 November 2006	San Francisco, California	Ann Klaus	TAMU
Association of Earth Science Editors Conference	8–12 November 2006	San Diego, California	J. Hesse, S. Lewis	TAMU
Houston–Louis Stokes Alliance for Minority Participation National Conference	9–12 November 2006	Houston, Texas	A. Castner	JOI
Employee Relocation	9–13 November 2006	College Station, Texas	P. Kannberg	TAMU
CMT/Project Advisory Committee (PAC) Meeting**	13 and 14 November 2006	College Station, Texas	D. Divins	JOI
Science Steering and Evaluation Panel (SSEP) Meeting	13–16 November 2006	Sapporo, Japan	J. Weinberger	LDEO
SSEP Meeting	13–16 November 2006	Sapporo, Japan	C. John, C. Zirikian	TAMU

Purpose	Dates	Location	Personnel	Institution
American Management Association International (AMA) Insurance and Risk Management Workshop	15–17 November 2006	Houston, Texas	K. Johnson	TAMRF
Keynote Speaker at Alberta Teacher's Association Science Conference and IODP Presentation at the University of Alberta	16–21 November 2006	Alberta, Canada	J. Fox	TAMU
JOI Alliance/NSF Meeting	27–29 November 2006	Washington, D.C.	Ann Klaus	TAMU
USIO NanTroSEIZE Expedition 1 Pre-expedition Meeting [NT2 Cork Design]	3–7 December 2006	Tokyo, Japan	B. Aduddell, D. Schroeder	TAMU
Hart Scientific Calibration Training	3–7 December 2006	Salt Lake City, Utah	D. Ferrell	TAMU
University of Houston Cost/Price Training	5–7 December 2006	Houston, Texas	K. Lee	TAMRF
Network Computing Expert Series Data Seminar	6 and 7 December 2006	Dallas, Texas	M. Hodge	TAMU
AMA Delegation Boot Camp	6–8 December 2006	Atlanta, Georgia	P. Gates	TAMU
Employee Relocation	6–18 December 2006	College Station, Texas	J. Geldmacher	TAMU
NSTA Western Area Conference	7–9 December 2006	Salt Lake City, Utah	J. Sharoff	JOI
Scientific Technology Panel (STP) Meeting and 2006 American Geophysical Union (AGU) Fall Meeting	7–15 December 2006	San Francisco, California	T. Brewer, S. Higgins, J. Inwood	LDEO
STP Meeting and 2006 AGU Fall Meeting	7–15 December 2006	San Francisco, California	P. Blum, J. Fox	TAMU
NanTroSEIZE Project Management Team Meeting	9 and 10 December 2006	San Francisco, California	J. Geldmacher, Adam Klaus	TAMU
2006 AGU Fall Meeting	11–15 December 2006	San Francisco, California	S. Boa, S. Bohlen, J. Corsiglia, D. Divins, M. Morell, L. Peart	JOI
2006 AGU Fall Meeting	11–15 December 2006	San Francisco, California	A. Cook, D. Goldberg, G. Guerin, G. Iturrino, A. Malinverno, D. Quoidbach, M. Reagan	LDEO
2006 AGU Fall Meeting	11–15 December 2006	San Francisco, California	C. Alvarez Zarikian, J. Firth, P. Foster, C. John, A. Klaus, M. Malone, Z. Mateo, J. Miller, D. Partain	TAMU
Color Calibration Software Training	18 and 19 December 2006	Dallas, Texas	J. Beck, W. Crawford, T. Fulton	TAMU

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

**USIO funded these trips to U.S. Scientific Ocean Drilling Vessel (SODV) Project meetings for D. Divins to attend as a representative of USIO.

APPENDIX F: DATA REQUESTS

JANUS DATABASE

Top 10 Countries Accessing Janus Web Database*		
Rank	Country	Visitor Sessions
1	United States	15,379
2	Germany	563
3	United Kingdom	334
4	Japan	245
5	France	232
6	China	208
7	Italy	134
8	Canada	127
9	Netherlands	93
10	Australia	81
	All others	650
	Total	18,046

*Excluding access from USIO-TAMU.

Top 20 Janus Web Queries*		
Rank	Query	Uploads
1	Sample report	1,675
2	Core photos	858
3	Point calculator	506
4	Hole trivia	504
5	Site hole summary	500
6	Moisture and density	423
7	Leg summary	302
8	Core section summary	295
9	Chemistry: interstitial waters	292
10	Requests	247
11	Chemistry: carbonates	237
12	Site trivia	231
13	Magnetic susceptibility	225
14	Paleomagnetism: cryomagnetometer	218
15	Color reflectance (RSC)	196
16	Paleontology: age model	188
17	Hole core summary	179
18	Prime data images	179
19	Paleontology: age profile	166
20	<i>P</i> -wave velocity (PWS)	165
	Others	2,629
	Total	10,215

*Excluding access from USIO-TAMU.

Other Web Statistics*		
Database query hits		
	Entire site (successful)	78,352
	Average per day	851
Visitor sessions		
	Total number of visitor sessions	18,046
	Average per day	196
	Average length of visit	00:14:08
	International visitor sessions	14.76%
	Visitor sessions of unknown origin	0.02%
	Visitor sessions from United States	85.22%
Visitors		
	Unique visitors	3,919
	Visitors who only visited once	2,200
	Visitors who visited more than once	1,719
	Average visits per visitor	4.6

*Excluding access from USIO-TAMU.

Data Requests to Data Librarian*	
Requests	Total
Country:	
United States	12
Canada	2
France	2
Australia	1
Belgium	1
Columbia	1
Germany	1
Italy	1
Sweden	1
Switzerland	1
United Kingdom	1
Total	24
Data:	
Data request	9
Photo request	9
DB query problem/question	2
Data question	2
Figure request	1
Software information	1
Total	24

*Excluding access from USIO-TAMU.

LOG DATABASE

Top 10 Countries Accessing Log Web Database*		
Rank	Country	Visitor Sessions
1	United States	1,371
2	Japan	100
3	Germany	88
4	United Kingdom	73
5	Switzerland	40
6	France	24
7	Italy	24
8	Chile	24
9	Australia	22
10	Canada	17
	All others	822
	Total	2,606

*Excluding access from USIO-LDEO.

Other Log Web Statistics*		
Database query hits		
	Entire site (successful)	10,322
	Average per day	335
Visitor sessions		
	Total number of visitor sessions	2,606
	Average per day	84
	Average length of visit	2:07
	International visitor sessions	26.67%
	Visitor sessions of unknown origin	20.72%
	Visitor sessions from United States	52.61%
Visitors		
	Unique visitors	1,406
	Visitors who only visited once	1,094
	Visitors who visited more than once	312
	Average visits per visitor	

*Excluding access from USIO-LDEO.

Data Requests to Log Data Supervisor		
Expedition	Request Number, Name, Affiliation, Country	Type of Data
	There were no data requests for this period.	

APPENDIX G: SAMPLE REQUESTS

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
East Coast Repository:			
		20086B, Piotrowski, UK	48
		20726B, Lawrence/Herbert/Cleavland, USA	204
		20758B, Roters/Henrich, Germany	4
		20942B, Billups/Martin, USA	78
		20960B, Hollis, New Zealand	51
		20995A, Storkey/Hannah, New Zealand	69
	1	21007A, Kurnosov/Zolotarev/Artamonov, Russia	16
		21024A, Verosub/Jovane/Florindo, USA	15

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
		21045A, Khelifi/Sarnthein/Weinelt, Germany	181
		21049A, Kocsis, Switzerland	7
	1	21066A, Robinson, UK	224
	2	21067A, Van de Flierdt/Williams, USA	4
	2	21068A, Van de Flierdt, USA	9
		21070A, Coxall/Pearson, UK	32
		21073A, Kane/Francois, Canada	42
		21077A, Finkel, Canada	27
		21081A, Haig/Gallagher, Australia	38
		21085A, Thomas/Murphy, USA	9
		21088A, Horst/Muller, USA	13
	1	21089A, Hofmann, Germany	354
		21091A, Kameo, Japan	92
		21099A, Jimenez Berrocoso/MacLeod, USA	2
	10	21113A, McHugh, USA [Educational]	No samples
	10	21129A, Pekar, USA [Educational]	No samples
	1	21130A, Mizintseva/Miller, USA	152
	2	21135A, Quan, USA	113
Total science	10		
Total education	20		
Total PR	0		
Total:	30	26	1,784
Gulf Coast Repository:			
	1	21086A, Hull, USA	359
		20810C, Henrich, Germany	113
		21064A, Groeneveld, Germany	63
		21062A, Norris, USA	184
		21054A, Griffith, USA	15
		20842B, Shimada, Japan	216
		21031A, Ferretti, UK	406
		20630C, Medina, USA	188
		20988A, Balestra, Italy	63
		21029A, Clarke, UK	61
		21053A, Westerhold, Germany	69
		20414B, Lamy, Germany	7
		21079A, Ravizza, USA	140
		21017B, DeBernadi, Italy	211
		20788C, Tikku, USA	14
		20725C, Schmidt, UK	98
		21064B, Groeneveld, Germany	267
		21046A, Wang, China	425
	2	21007A, Kurnosov, Russia	330
		20989B, Veres, Sweden	256
		21091A, Kameo, Japan	100
		21066A, Robinson, UK	105
		20912A, Swart, USA	346
		21096A, Sobolev, Germany	8
		21114A, Leido, USA	12
		20879B, Barnes, USA	8
	18	21105A, Thomas, USA [Educational]	No samples

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
	4	21104A, Romans, USA	6
	2	21085A, Thomas, USA	103
		21095A, Billups, USA	1246
		21101A, Naegler, Switzerland	20
		21131A, Hayward, NewZealand	16
	1	21119A, Kalb, USA	132
		21106B, Herrmann, USA	23
		20460C, Cleaveland, USA	116
		20469E, Fantle, USA	35
		21128A, Schneider, USA	167
		20083B, Bendle, UK	39
		21120A, Clarke, UK	229
		20643D, Meynadier, France	9
		21139A, Kleiven, Norway	58
		21075A, Rogers, USA [Educational]	41
		21108A, Culpepper, USA [Educational]	35
		21124A, Horn, USA [Educational]	40
	1	20577B, Gao, USA	32
Total science	11	41	6,295
Total education:	18	4	116
Total PR:			
Total:	29	45	6,411
West Coast Repository:			
		21054A, Griffith, USA	28
		21065A, Lear, UK	525
		20873C, Morris/Gill/Dymek, USA	12
		20879B, Barnes/Sharp/Fischer, USA	6
		20967A, Anand/James, UK	134
		20971B, Prokopenko/Sigman, USA	25
		21132A, Tripathi/Yu/Elderfield, UK	15
Total science:	0	7	
Total education:	0		
Total PR:	0		
Total:	0	7	745

APPENDIX H: PUBLICATIONS

Publication	Release Date	URL
Proceedings of the Integrated Ocean Drilling Program:		
Expedition 307 (Modern Carbonate Mounds: Porcupine Drilling)	14 October 2006	http://iodp.tamu.edu/publications/exp307/307toc.htm
Volume 311 (Cascadia Margin Gas Hydrates)	28 October 2006	http://iodp.tamu.edu/publications/exp311/311toc.htm
Volume 309/312 (Superfast Spreading Rate Crust 2 and 3)	28 December 2006	http://iodp.tamu.edu/publications/exp309_312/30912toc.htm

APPENDIX I: WEB

Comparison of Web access statistics averages between FY06 Q4 and FY07 Q1 indicates a 9% increase in Web site traffic.

USIO

FY06 Q4 USIO Web Site (Servers: www.iodp-usio.org , iodp.ldeo.columbia.edu , iodp.tamu.edu)				
Parameter	JOI	LDEO	TAMU	Totals
Page views	20,247	12,783	398,050	431,080
Site visits*	12,169	7,948	54,846	74,963

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

New and updated Web pages	Release date	URL
Expeditions: NanTroSEIZE expedition information	Oct 2006	http://iodp.tamu.edu/scienceops/expeditions/nantroseize.html
Expeditions: Equatorial Pacific expedition information	Oct 2006	http://iodp.tamu.edu/scienceops/expeditions/equatorial_pacific.html
Publications: <i>Proceedings</i> Volume 307	Oct 2006	http://iodp.tamu.edu/publications/exp307/307title.htm
Publications: <i>Proceedings</i> Volume 311	Oct 2006	http://iodp.tamu.edu/publications/exp311/311title.htm
Logging Summary: Expedition 309/312	Oct 2006	http://iodp.ldeo.columbia.edu/LOG_SUM/309_312/index.html
Tools: toolstrings and tools	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/tools.html
Tools: selecting logging tools	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/toolstring_selection.html
Tools: cableheads	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/OTHER/cable_heads.html
Tools: calibration	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/OTHER/calibration.html
Tools: application of gamma ray logs	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/FMS/text.html
Tools: capillary suction tester	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/OTHER/capillary_suction.html
Tools: ARI	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/SPECIAL/ari.html
Tools: CSES	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/OTHER/cses.html
Tools: data processing	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/processing.html
Tools: TAP tool	Oct 2006	http://iodp.ldeo.columbia.edu/TOOLS_LABS/LEGACY/tap.html
Expeditions: Bering Sea expedition information	Dec 2006	http://iodp.tamu.edu/scienceops/expeditions/bering_sea.html
Expeditions: Juan de Fuca expedition information	Dec 2006	http://iodp.tamu.edu/scienceops/expeditions/juan_de_fuca.html
Publications: <i>Proceedings</i> Volume 309/312	Dec 2006	http://iodp.tamu.edu/publications/exp309_312/30912title.htm
Newsroom: AGU and other news	Dec 2006	http://www.iodp-usio.org/Newsroom/News.html

APPENDIX J: DSDP/ODP CORE REDISTRIBUTION PROJECT

One new full-time staff member was hired in early October 2006 for core packing at the ECR. The ECR packed five core shipments to send to the Bremen Core Repository (BCR); two of the packed shipments were held for shipping until after January 2007. An order was placed for a new core shrink-wrapping machine for the West Coast Repository (WCR), with delivery expected in February 2007.

APPENDIX K: EDUCATION AND OUTREACH

The following U.S. education and outreach activities are supported by National Science Foundation through SIC funding. These activities are not included in the POC and science operating cost (SOC) budgets.

JOI LEARNING

MATERIALS DEVELOPMENT AND EDUCATION PROGRAMS

A new poster, “The ‘Hole Story’ about Ocean Cores,” was introduced at the 2006 GSA Annual Meeting and Exposition. The poster introduces core description and curation techniques used by scientists and technicians during IODP Expedition 309 through the examination of high-

resolution photos and data from four cores taken at various depths in this first-of-its-kind complete section of oceanic crust (www.joilearning.org/posters). Developed by A. Gelatt (Romulus Central School, Romulus, New York) during his Teacher-at-Sea experience, the poster includes a comprehensive fact sheet about ocean cores plus five laboratory activities, including visual core description, core curation, drilling rates, ocean crust density, and mineralogy and petrology. These activities were designed specifically for high school and undergraduate courses, but can be adapted for younger groups.

A new cartoon character based on Joe “Bubba” Attryde, Tool Pusher and Core Technician for USIO-TAMU (through ODL), was also unveiled at the GSA Annual Meeting. This new character will serve as the basis of several products for young audiences.

JOI Learning contributed “What Lies Beneath the Upper Crust?,” an activity designed to help “citizen scientists” decipher science in the media, to the American Geophysical Institute’s Earth Science Week Activity Calendar for the 2006–2007 school year (www.earthsciweek.org/calendar/0607files/May2007.pdf). Featured in May 2007, the JOI Learning activity focuses readers in grades 6–9 on the *Scientific American* article “Drilled Core Exposes Hitherto Unseen Layers of Earth’s Crust” and the science of IODP Expedition 312. The calendar was distributed to more than 10,000 U.S. classrooms in early October 2006.

MINORITY OUTREACH

HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP

A. Castner (Executive Program Associate, JOI) attended the Houston–Louis Stokes Alliance for Minority Participation National Conference “Advancing STEM Education, A Texas Showcase” held 10–12 November 2006 at Texas Southern University in Houston. Outreach and recruiting activities for the USIO’s HBCU Fellowship were conducted through an exhibit.

In an attempt to address significant concerns regarding recruiting applications and some of the logistical practicalities of the HBCU Fellowship, the USIO is testing a new approach wherein a student enrolled at an HBCU can work with a faculty member conducting research and/or education and outreach activities related to the goals of the USIO. C. Pride (Assistant Professor, Savannah State University) and N. Abdul (Marine Science graduate student, Savannah State University) were selected to serve as a pilot case for this new approach with a Benguela paleoceanography project that utilizes core samples from ODP Site 1084.

CONGRESSIONAL OUTREACH

USIO outreach staff participated in meetings and listserv discussions of the Coalition for National Science Funding (CNSF).

APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

J. Allan, NSF, jallan@nsf.gov
R. Batiza, NSF, rbatiza@nsf.gov
R. Pihl, NSF, rpihl@nsf.gov
J. Walter, NSF, jwalter@nsf.gov
J. Emmitte, IODP-MI, jemmitte@iodp.org
T. Janecek, IODP-MI, tjanecek@iodp.org
N. Light, IODP-MI, nlight@iodp.org
M. Talwani, IODP-MI, mtalwani@iodp.org
B. Ball, JOI, bball@joiscience.org
S. Boa, JOI, sboa@joiscience.org
S. Bohlen, JOI, sbohlen@joiscience.org
D. Divins, JOI, ddivins@joiscience.org
E. Hayman, JOI, ehayman@joiscience.org
S. Higgins, JOI, shiggins@joiscience.org
C. Kokinda, JOI, ckokinda@joiscience.org
M. Morell, JOI, mmorell@joiscience.org
L. Peart, JOI, lpeart@joiscience.org
D. Goldberg, USIO-LDEO, goldberg@ldeo.columbia.edu
M. Reagan, USIO-LDEO, reagan@ldeo.columbia.edu
M. Respo, USIO-LDEO, mrespo@admin.ldeo.columbia.edu
J. Baldauf, USIO-TAMU, baldauf@iodp.tamu.edu
J. Fox, USIO-TAMU, fox@iodp.tamu.edu
Ann Klaus, USIO-TAMU, annklaus@iodp.tamu.edu
W. Wasson, USIO-TAMRF, wasson@iodp.tamu.edu