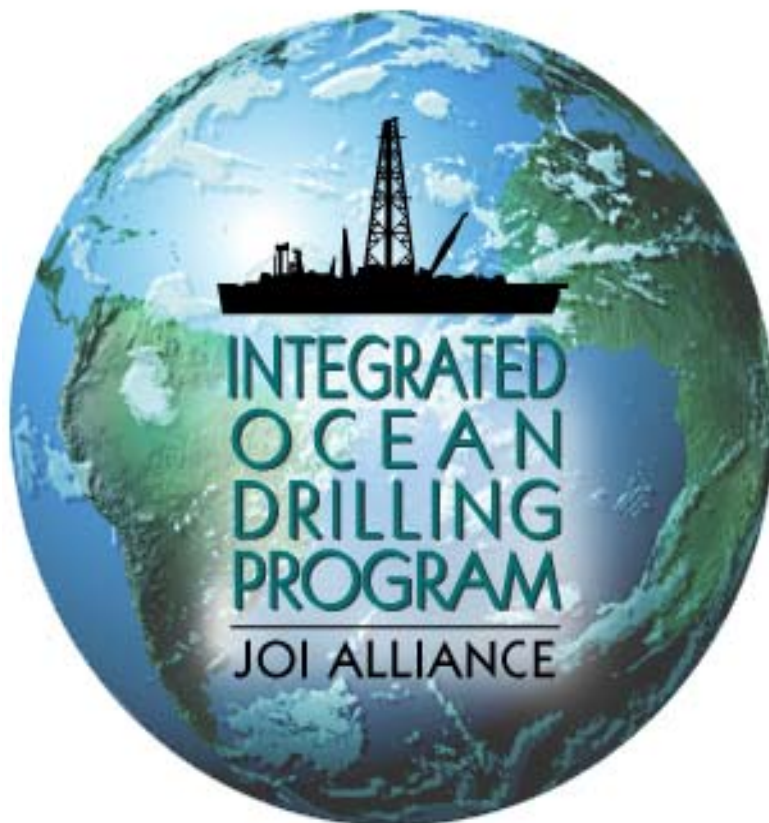


10 August 2007



1 April–30 June 2007

FY07 Quarterly Report 3

NSF Contract No. OCE-0352500

Submitted by the JOI Alliance to

The National Science Foundation

and

IODP Management International, Inc.

TABLE OF CONTENTS

INTRODUCTION.....	5
EXPEDITION OPERATIONS	5
EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES.....	5
IODP-USIO <i>JOIDES RESOLUTION</i> PHASE 1 DEMOBILIZATION.....	6
ENGINEERING AND TECHNOLOGY DEVELOPMENT.....	6
PROJECTS AND OTHER ACTIVITIES	6
INFORMATION TECHNOLOGY	8
PROJECTS AND OTHER ACTIVITIES	8
HEALTH, SAFETY, AND ENVIRONMENT	9
PROJECTS AND OTHER ACTIVITIES	9
REPORTS/PUBLICATIONS.....	9
IODP-USIO REPORTS.....	9
PROJECTS AND OTHER ACTIVITIES	9
EDUCATION AND OUTREACH	9
PUBLIC AFFAIRS	9
IODP-USIO WEB SITE	11
USIO INTERACTIONS WITH IODP-MI AND OTHER IMPLEMENTING ORGANIZATIONS.....	12
INTERACTIONS	12
MEETINGS	12
APPENDIX A: CONTRACTUAL ACTIVITIES	14
APPENDIX B: FINANCE REPORT	15
APPENDIX C: PERSONNEL STATUS	56
APPENDIX D: CONFERENCE AND MEETING SCHEDULE	57
APPENDIX E: TRAVEL.....	57
APPENDIX F: DATA REQUESTS.....	60
APPENDIX G: SAMPLE REQUESTS	63
APPENDIX H: PUBLICATIONS	65
APPENDIX I: WEB.....	65
APPENDIX J: DSDP/ODP CORE REDISTRIBUTION PROJECT.....	65
APPENDIX K: EDUCATION.....	65
APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST	68

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 third quarter of FY07 by the USIO, which is composed of Joint Oceanographic Institutions (JOI) and its partners, Texas A&M University (TAMU) and Lamont Doherty Earth Observatory (LDEO) of Columbia University.¹

EXPEDITION OPERATIONS

EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES

IODP-USIO PACIFIC EQUATORIAL AGE TRANSECT 1 AND 2 EXPEDITIONS

Expedition Planning: Revision and review of the *Scientific Prospectus* was completed. Publication is pending assignment of expedition numbers.

Expedition Staffing: First and second rounds of science party invitations were issued and 41 scientists accepted—21 for Pacific Equatorial Age Transect (PEAT) 1 and 20 for PEAT 2. The remaining 5 positions for PEAT 1 and 5 positions for PEAT 2 will be filled during the next quarter.

NANTROSEIZE STAGE 1 EXPEDITION

Expedition Planning: Planning continued early in the quarter, including continued integration of the Nankai Trough Seismogenic Zone Experiment (NanTroSEIZE) project between the USIO and the Center for Deep Earth Exploration (CDEX). A NanTroSEIZE Project Management Team (PMT) meeting attended by one USIO staff member was held 11–13 April 2007 in Yokohama, Japan. In June 2007, the USIO learned of completion of negotiations with the Japanese fishing unions regarding limitations to IODP operations in the NanTroSEIZE area, which concluded that operations cannot be conducted between 1 March and 30 May 2008. With U.S. Scientific Ocean Drilling Vessel (SODV) schedule changes, these new developments provided severe limitations to NanTroSEIZE operations, which will be addressed by the Operations Task Force (OTF) and Science Planning Committee (SPC). The USIO suspended additional expedition planning activities pending resolution of this issue.

Expedition Staffing: The four Co-Chief Scientists of the two former USIO NanTroSEIZE expeditions were invited to be Co-Chief Scientists on the merged expedition. The first round of invitations was issued for the merged expedition. In June 2007, the Co-Chief Scientists, invited scientists, and Program Member Offices (PMOs) were notified of the status of SODV schedule and Japanese fishing union constraints and pending resolution by OTF and SPC.

IODP-USIO JUAN DE FUCA HYDROGEOLOGY 2 EXPEDITION

Engineering Design/Technology: The proponent engineer is continuing design work in anticipation of completion of the Juan de Fuca proposal. A meeting was held on 29 June 2007 in College Station, Texas, with the proponent engineer and five USIO staff members to review proposal status and design work.

¹ In this document, references to USIO-TAMU include Texas A&M Research Foundation (TAMRF).

IODP-USIO BERING SEA EXPEDITION

Expedition Planning: The pre-expedition meeting was held 18 and 19 June 2007. Preparations began for submission of clearance documents for sites in Russian waters.

Expedition Staffing: The expedition summary and call for applications was completed and a staffing schedule was developed with the PMOs and IODP Management International, Inc. (IODP-MI). The call for applications was scheduled for release in early July 2007. Deadlines were set for the scientists to submit applications to the PMOs (31 August 2007) and the PMOs to submit nominations to the USIO (15 October 2007).

IODP-USIO JOIDES RESOLUTION PHASE 1 DEMOBILIZATION

USIO-LDEO and Schlumberger inspected the Wireline Heave Compensator and found no significant problems. The unit is in storage at Schlumberger facilities in Webster, Texas, awaiting the availability of storage space at USIO-LDEO. When that space becomes open, the unit will be shipped to USIO-LDEO for refurbishment.

ENGINEERING AND TECHNOLOGY DEVELOPMENT

PROJECTS AND OTHER ACTIVITIES

Simulated Borehole Test Facility: Aluminum clam shell forms were purchased for consolidating sediment to 400 psi lithostatic pressure. The shells are sized for consolidating a 30 inch high by 16 inch diameter sediment mixture, which yields a final sediment plug height of 24 inches. Two sediment plugs stacked in the Simulated Borehole Test Facility (SBTF) sediment tank will make a 48 inch high test plug. A second hydraulic press (80,000 lbs) was acquired to increase production of consolidated sediment. Pressure switches and pneumatic solenoids were installed on the hydraulic presses to automate the consolidation process. Braking springs were installed in the firing chamber to cushion end-of-stroke impact.

Common Downhole Data Logger: The printed circuit board layout design was completed and ten circuit boards ordered and received. All electronic components were received and sent with the circuit boards to the manufacturer for assembly. Four micro-controllers were ordered, which will be sent to the manufacturer to complete production of four populated prototype boards for evaluation. The packaging design of the Common Data Acquisition (CDAQ)/battery module for the Davis-Villinger Temperature Probe (DVTP), Davis-Villinger Temperature Pressure Probe (DVTPP), and interstitial water sampler (IWS) was 90% completed, and the firmware for analog to digital converter data collection was 90% completed.

Metrology Laboratory (Calibration Laboratory): Construction was completed for the laboratory facility remodeling, and installation of additional work benches and other fixtures began. The calibration equipment is back in operation, and preparations were made to calibrate the first prototype of the Advance Piston Core Temperature Model 3 (APCT-3).

Downhole Sensor Sub: Both Downhole Sensor Sub (DSS) tools were pressure tested at Schlumberger's facilities on 17 and 18 May 2007. Preliminary results showed that the software coefficients used to compensate weight on bit (WOB) and torque on bit (TOB) for pressure/temperature were not accurate. Another pressure test using corrected coefficients was planned for July 2007. DSS #2 and the USIO-LDEO Remote Memory Module (RMM) were run on 22 June 2007 at Schlumberger's Genesis facility, with initial results indicating a failure of the RMM unit to communicate with the DSS. Analysis and corrective action began.

Test Facility: The refurbished hoist and new hook for the derrick were received but the available air winch was inadequate to reinstall the hoist during an attempt on 7 June 2007. Plans were made for renting a crane to install the unit.

Instrumented Water Sampler: Plans were made to shorten the length of the IWS prototype tested on Ocean Drilling Program (ODP) Leg 208 to allow it to fit in the SBTF cannon. The SBTF test configuration will use the new CDAQ/battery module, which is less than half the length of the prototype electronics, and a fluid sampling chamber redesigned to house a single coil. A new motor drive circuit was designed that will provide automatic torque control, and the CDAQ/battery module design neared completion.

Heave Compensator Stroke and Load Pin Hook Load Measurement: Due to the removal of the Active Heave Compensator (AHC), new hardware and cabling will be required in the derrick and on the traveling equipment to provide power and to feed compensator stroke position and load pin hook load data to rig instrumentation. The rig instrumentation requires compensator stroke data for depth control calculations. A project was initiated to install data acquisition hardware and its associated power and data cables on the traveling equipment.

Advanced Piston Corer Temperature Tool 3 Implementation: A USIO/CDEX joint order was placed with Antares Datensysteme GmbH in Bremen, Germany, for 9 APCT-3 data logger electronic units. Delivery of 3 units to USIO-TAMU and 6 units to CDEX was scheduled for mid-August 2007. The German Principal Investigators (PIs) (University of Bremen) delivered one prototype unit to USIO-TAMU for testing in the new metrology laboratory. Development and testing began for in-house calibration procedures based on calibration instructions included in the APCT-3 tool manual provided by A. Fisher (PI, University of California Santa Cruz).

USIO-TAMU ANALYTICAL SERVICES

IODP Geosciences Laboratory: TAMU converted some of the unfinished warehouse space in the USIO-TAMU building to provide an additional 2500 square feet of laboratory space. The Geosciences Laboratory will be used for testing and integration of physical properties systems before they are sent to the SODV. Afterward, the area will be used to house instrumentation for core analysis.

USIO-LDEO ENGINEERING AND TECHNICAL SERVICES

Logging-While-Coring Project: L. Whitebay, an industry coring consultant, completed a survey of commercially available coring tools and discovered no existing off-the-shelf bit solutions for the USIO's Logging-While-Coring project. The decision was made to issue a Request for Quotes (RFQ) for the manufacture of custom-made coring bits.

INFORMATION TECHNOLOGY

PROJECTS AND OTHER ACTIVITIES

USIO-TAMU INFORMATION TECHNOLOGY AND DATA SERVICES

Storage Area Network: Planning continued for moving the remaining non-UNIX data to the storage area network (SAN). Approval was received to use FY07 excess funds to purchase the SAN and near line storage expansion originally budgeted for FY08.

CommVault Server: Additional client licenses were requested due to additional hardware purchases.

Web Services: Critical personnel were scheduled for Apache training in order to facilitate project migration from the SUN IPlanet Web server to Apache and Tomcat.

Operational Support: Two new heating, ventilation, and air-conditioning (HVAC) units were installed for the computer room and all temporary air-conditioning vents were removed. The HVAC units and associated controllers were exercised and accepted. Installation planning began for replacement of the Uninterruptible Power Supply (UPS) and Power Distribution Unit (PDU) for the computer room. The Solaris 10 cluster was patched to the latest revisions.

Cumulus Digital Asset Management Installation: The shore component of the Cumulus Digital Asset Management (DAM) system was installed and configured. User, administrator, and developer training was completed.

Network Infrastructure: New fiber was run to the new Ocean Drilling and Sustainable Earth Science (ODASES) laboratory in the Gulf Coast Repository (GCR). A small distributed 5e copper plant was installed and connected to the ship network, which is being temporarily routed to the GCR. Initial testing of the centralized wireless network began.

USIO-LDEO INFORMATION SERVICES

Log Database Upgrade: The final table in the new database schema was implemented, allowing mapping between hole, tool, and data files. This will allow direct access to individual files without requiring an intervening list by data type. Representational state transfer (REST)-based Web services were completed and are functional, as is a Web feature service to provide GIS (Geographical Information System)-compatible layers that will show holes with logging data. Preparations for Scientific Earth Drilling Information Service (SEDIS) Phase I metadata harvesting neared completion, with all required metadata in hand and an Open Archives Initiative (OAI) provider in place.

Operations Database: Several drafts of the operations database schema were developed, and implementation of a prototype in FileMaker Pro was initiated for evaluation and collection of records. Assembly began of operations data from the Deep Sea Drilling Project (DSDP), ODP, and IODP, with the goal of adding as much data as possible to the operations database to provide a single, searchable resource.

HEALTH, SAFETY, AND ENVIRONMENT

PROJECTS AND OTHER ACTIVITIES

USIO-TAMU HEADQUARTERS

Building Security: Final work was done to implement the card access system, which requires individually authorized cards (ID cards) to allow entrance during nonworking hours.

REPORTS/PUBLICATIONS

IODP-USIO REPORTS

FY07 IODP QUARTERLY REPORT

The IODP-USIO report for the second quarter of FY07 (January–March 2007) was submitted to National Science Foundation (NSF) and IODP-MI on 15 May 2007.

FY08 ANNUAL PROGRAM PLAN

On 25 April 2007, the JOI Alliance submitted the IODP-USIO FY08 Annual Program Plan to IODP-MI and NSF for review and evaluation. The draft FY08 Annual Program Plan consisted of the science operating costs (SOCs) and platform operating costs (POCs) of the IODP expeditions titled USIO NanTroSEIZE Expedition 1, PEAT Expedition 1, PEAT Expedition 2 (with Juan de Fuca Remedial Cementing), and Bering Sea Expedition, as well as long-lead time items and the associated costs for expeditions proposed for FY09 and requests for continuing SOC shore-based activities during FY08. The IODP-USIO FY08 Annual Program Plan budget totaled \$53,610,627, with \$17,614,891 requested in SOC (from IODP-MI) and \$35,995,736 requested in POC (from NSF).

On 27 April 2007, NSF provided budget guidance for revisions to the IODP-USIO FY08 Annual Program Plan. USIO staff worked on revised program planning during the remainder of the quarter.

PROJECTS AND OTHER ACTIVITIES

IODP PUBLICATIONS SERVER HOSTED BY THE USIO

During the third quarter, USIO Publication Services completed the migration of IODP Phase 1 scientific reports and publications to the new IODP publications server (publications.iodp.org). Digital object identifier (DOI) metadata for reports and publications on the new server were also updated.

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 public and media awareness.

Highlights include the following events:

- On 1 and 2 May 2007, IODP scientists G. Mountain of Rutgers University and B. Clement of Florida International University participated in the 12th Annual Science Engineering and Technology Congressional Visits Day 2007.

- On 8 May 2007, USIO Communications staff presented a full-day Media Awareness Training session to science operations staff at USIO-TAMU.

PUBLIC RELATIONS MATERIALS

USIO MEDIA ADVISORIES/NEWS RELEASES

The following news releases were distributed this quarter:

- Bigger, better U.S. scientific ocean drilling ship for Integrated Ocean Drilling Program: all-new quarters and laboratories—labs more than 25% larger (19 April 2007).
- Pushing scientific ocean drilling results to the desktop (25 April 2007).

The following Web sites ran IODP-USIO/IODP-MI/NSF news releases verbatim:

- Digg.com, http://digg.com/general_sciences/Bigger_better_U_S_scientific_ocean_drilling_ship
- DLESE News, http://www.dlese.org/news_opportunities/description_full.jsp?id=NEWS-OPPS-000-000-002-129&q=
- Technocrat.net, <http://technocrat.net/d/2007/4/19/18377>
- Paleonet, <http://mailman.nhm.ac.uk/pipermail/paleonet/2007-May/000341.html>
- Ocean.US, <http://www.ocean.us/node/711>

ARTICLES AUTHORED BY USIO STAFF

Science and other 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).

- **Bohlen, S.**, 2007. Challenging times ahead: what's going on? *Mar. Technol. Reporter*, 50(5):22–25. <http://www.seadiscovery.com/MTIssues/mt200705o2.pdf>
- Ildefonse, B., Blackman, D.K., John, B.E., Ohara, Y., **Miller, D.J.**, MacLeod, C.J., and Integrated Ocean Drilling Program Expeditions 304/305 Science Party, 2007. Oceanic core complexes and crustal accretion at slow-spreading ridges. *Geology*, 35(7):623–626. doi:10.1130/G23531A.1 (including cover photograph)
- Reese, R.S., and **Alvarez-Zarikian, C.A.**, 2007. Hydrogeology and aquifer storage and recovery performance in the Upper Floridian Aquifer, southern Florida. *Sci. Invest. Rep. (U. S. Geol. Surv.)*, 2006-5239. <http://pubs.usgs.gov/sir/2006/5239>
- **Sjo-Gaber, K.**, 2007. ODP volumes go digital. *Geonet*, 23 May 2007. <https://lists.purdue.edu/pipermail/geonet/2007-May/000543.html>
- Zachos, J.C., Bohaty, S.M., **John, C.M.**, McCarren, H., Kelly, D.C., and Nielsen, T., 2007. The Paleocene–Eocene carbon isotope excursion: constraints from individual shell planktonic foraminifer records. *Philos. Trans. R. Soc., A*, 365:1829–1842. doi:10.1098/rsta.2007.2045

NEWS ARTICLES, PROGRAMS, MEDIA CITATIONS, OR PUBLIC COMMENTARY

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., 2007. Drillers target earthquake zone. *BBC News*, 18 April 2007. <http://news.bbc.co.uk/1/hi/sci/tech/6566039.stm>
- Carter, B., 2007. A dangerous climate. *The Sunday Telegraph* [United Kingdom], 8 April 2007. <http://www.telegraph.co.uk/news/main.jhtml?xml=/news/2007/04/08/nrclimate08.xml>
- Corsiglia, J., 2007. Integrated Ocean Drilling Program research to be available online. *Texas A&M News*, 25 April 2007. <http://dmc-news.tamu.edu/templates/?a=4533&z=15>
- Friedman, B., 2007. Deep drilling unlocking planet’s secrets: finding facts before conclusions. *AAPG Explorer*, 28(5):24–25.
- *Lloyd’s List*, 2007. Jurong secures conversion contracts worth \$88m. *Lloyd’s List*, 21 May 2007.
- *Marine Technology Reporter*, 2007. RV *JOIDES Resolution* to get face lift. *Mar. Technol. Reporter*, 50(4):18–19. <http://www.seadiscovery.com/mt/mtStories.aspx?ShowStory=1010252052>
- Marine Technology Society, 2007. Resources news: All findings and data published in volumes from the Ocean Drilling Program. *Currents*, 30(4):18. http://www.mtsociety.org/publications/Currents/jul_aug_2007/currents_jul_aug_2007.pdf
- *MarineLog*, 2007. Jurong wins conversion orders. *MarineLog*, 18 May 2007. <http://www.marinelog.com/DOCS/NEWSMMVII/2007may00181.html>
- MacLeod, N., 2007. Pushing scientific ocean drilling results to the desktop. *Paleonet*, 2 May 2007. <http://mailman.nhm.ac.uk/pipermail/paleonet/2007-May/000341.html>
- NHK, Twin Cities Public Television, and Red Hill Studios, 2007. *Exploring Time*, 10 May 2007. <http://exploringtime.org/>
- Regan, P., 2007. Natural climate rhythms. *NJN News*, 21 February 2007. <http://njn.net/newspublicaffairs/science/>
- *Science Library Blog*, 2007. Ocean Drilling Program publications online. *Binghamton University Libraries: Science Library Blog*, 24 May 2007. http://library.lib.binghamton.edu/mt/science/archives/2007/05/ocean_drilling.html
- *Sea Technology*, 2007. Jurong Shipyard pte Ltd., Singapore. *Sea Technol.*, 48(6):69.
- The National Office for Integrated and Sustained Ocean Observations, 2007. Pushing scientific ocean drilling results to the desktop. *Ocean.US*, 24 May 2007. <http://www.ocean.us/node/711>

IODP-USIO WEB SITE

Main activities during this quarter included the creation of laboratory pages for the SODV (<http://iodp.tamu.edu/labs/ship.html>). These pages describe the scientific, operational, and accommodation capabilities of the improved vessel, show the vessel’s architecture, and include

lists and graphics detailing the function and placement of scientific instruments and technical infrastructure.

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

EDUCATION

A new Web site under the umbrella of *JOI Learning* was developed for School of Rock 2007 (www.joilearning.org/schoolofrock2007/), which will take place 22–28 July 2007 at the GCR.

IODP DATABASES

Janus Database: Coring summary data, site trivia, and sampling data from Expedition 310 were made available to the public online.

USIO INTERACTIONS WITH IODP-MI AND OTHER IMPLEMENTING ORGANIZATIONS

INTERACTIONS

APCT-3 IMPLEMENTATION

USIO and CDEX continued activities on the joint implementation of the APCT-3. See “Projects and Other Activities, USIO-TAMU Engineering Services” in the “Engineering and Technology Development” section for more information.

MEETINGS

SCIENCE STEERING AND EVALUATION PANEL MEETING

The Science Steering and Evaluation Panel (SSEP) Meeting was held 29 May–1 June 2007 in Houston, Texas (see “Appendix E” for list of USIO attendees). Thirty-five proposals were reviewed and a variety of issues were discussed, including budget reductions and the impact on IODP operations. J. Miller (Staff Scientist, USIO-TAMU) gave the USIO presentation.

IODP QUALITY ASSURANCE/QUALITY CONTROL TASK FORCE MEETING

An IODP Quality Assurance/Quality Control (QA/QC) Task Force meeting was held 5 and 6 June 2007 in Washington, D.C. (see “Appendix E” for list of USIO attendees). USIO-TAMU attendees participated via videoconference. Task Force members discussed the overall QA/QC plan for the organization, including how QA/QC would be applied and reviewed on an expedition basis. In addition, the QA/QC taskforce reviewed the reports from the September 2006 IODP Depth Scale, VCD, and Paleontology meetings and made recommendations to carry those efforts forward.

IODP OUTREACH TASK FORCE MEETING

The IODP Outreach Task Force Meeting was held 5 and 6 June 2007 in Washington, D.C. (see “Appendix E” for list of USIO attendees). Also attending were media and public education staff from the Japan Agency for Marine-Earth Science and Technology (JAMSTEC), CDEX, the European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO), and IODP-MI. The focus of the meeting was to discuss and agree on roles, responsibilities, and relationships of IODP-MI and implementing organizations’ (IO) outreach specialists. The group was tasked to provide a list of outreach recommendations and definitions for inclusion in the Annual Program Plan. Reports of the meeting are available at www.iodp.org/o-task-force/.

ENVIRONMENTAL PROTECTION AND SAFETY PANEL MEETING

The Environmental Protection and Safety Panel (EPSP) meeting was held 18 and 19 June 2007 in Houston, Texas (see “Appendix E” for list of USIO attendees). J. Baldauf (Deputy Director of Science Services, USIO-TAMU) presented the USIO review and noted key operational issues.

OPERATIONS TASK FORCE MEETING

The OTF meeting was held 20 June 2007 in Houston, Texas (see “Appendix E” for list of USIO attendees). J. Baldauf (Deputy Director of Science Services, USIO-TAMU) presented the USIO review and noted key operational issues.

APPENDIX A: CONTRACTUAL ACTIVITIES

JOI

NSF CONTRACT OCE-0352500 WITH JOI

JOI received the following modifications during the reporting period:

- Modification 23: Shifted \$276,313 from FY06 budget to FY07 budget.
- Modification 24: Replaced the Security Access Clause and provided a summary funding chart for the IODP and SODV sides of this contract.

JOI SUBCONTRACT JSC 4-03 WITH USIO-LDEO

JOI issued no modifications during the reporting period.

JOI SUBCONTRACT JSC 4-02 WITH USIO-TAMRF

JOI issued no modifications during the reporting period.

USIO-TAMRF

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

- 19 April 2007: Submitted Small Business Report.

APPENDIX B: FINANCE REPORT

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

APPENDIX C: PERSONNEL STATUS

JOI

There were no positions vacated, opened, advertised, or filled during the quarter.

USIO-LDEO

There were no positions vacated, opened, or advertised during the quarter.

The following position was filled during the quarter:

- Senior Staff Associate (Tanzhuo Liu): 30 April 2007

USIO-TAMU

The following positions were vacated during the quarter:

- Microcomputer Specialist (Matthew Nobles): 1 April 2007
- Material Technician (Bob Kralich): 30 April 2007
- Administrative Assistant (Barbara Turner): 9 May 2007
- Software Applications Developer (Ying Zhu): 29 May 2007
- Production Editor II (Jenni Lamb): 30 May 2007
- Applications Developer (Brice Lambi): 1 June 2007
- Senior Marine Instrumentation Specialist (Pieter Pretorius): 28 June 2007

The following positions were opened and advertised during the quarter:

- System Analyst II (3)
- Software Applications Developer (ITDS)
- Software Applications Developer (TAS)
- Lead Software Applications Developer

The following positions were filled during the quarter:

- System Analyst II (Matthew Nobles): 1 April 2007
- Staff Scientist (Kusali Gamage): 2 April 2007

APPENDIX D: CONFERENCE AND MEETING SCHEDULE*

Conference/Meeting	Date	Location
Integrated Ocean Drilling Program (IODP) NanTroSEIZE Project Management Team Meeting	11–13 April 2007	Yokohama, Japan
Expedition 311 Second Postexpedition Meeting	23–25 April 2007	Paris, France
JOI Alliance Systems Integration Team (JASIT) Meeting	14 May 2007	Washington, D.C.
Expedition 303/306 Second Postexpedition Meeting	14–17 May 2007	Kona, Hawaii
Science Steering and Evaluation Panel (SSEP) Meeting	29 May–1 June 2007	Houston, Texas
IODP Quality Assurance/Quality Control (QA/QC) Meeting	5 and 6 June 2007	Washington, D.C.
IODP Outreach Task Force Meeting	5 and 6 June 2007	Washington, D.C.
Expedition 309/312 Second Postexpedition Meeting	11–15 June 2007	Tokyo, Japan
Bering Sea Pre-expedition Meeting	18 and 19 June 2007	College Station, Texas
Environmental Protection and Safety Panel (EPSP) Meeting	18 and 19 June 2007	Houston, Texas
Operations Task Force (OTF) Meeting	20 June 2007	Houston, Texas
Science Advisory Structure Executive Committee (SASEC) Meeting	25 and 26 June 2007	Bremerhaven, Germany

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

APPENDIX E: TRAVEL*

Purpose	Date	Location	Personnel	Institution
Downhole Sensor Sub (DSS) Qualification Testing	30 March–1 April 2007	Sugarland, Texas	B. Aduddell, K. Grigar	TAMU
Integrated Ocean Drilling Program (IODP) NanTroSEIZE Project Management Team Meeting	8–14 April 2007	Yokohama, Japan	Adam Klaus	TAMU
IODP Budget Meetings	9 and 10 April 2007	College Station, Texas	D. Divins, S. Higgins	JOI
IODP Management Meeting	9 and 10 April 2007	College Station, Texas	D. Goldberg	LDEO
FY08 Annual Program Plan Preparation and Meetings	10–21 April 2007	College Station, Texas	G. Lowe	TAMU
European Geological Union (EGU) Meeting	14–20 April 2007	Vienna, Austria	L. Lembke-Jene	TAMU
Expedition 311 Second Postexpedition Meeting	23–25 April 2007	Paris, France	G. Guerin, A. Malinverno	LDEO
Expedition 311 Second Postexpedition Meeting	23–25 April 2007	Paris, France	M. Malone	TAMU
Presentation at Petroleum Engineering Industry Round Table	25 and 26 April 2007	Galveston, Texas	J. Fox	TAMU
LabWare North American 2007 Customer Education Conference	29 April–4 May 2007	Cambridge, Maryland	S. Zeliadt	TAMU
Offshore Technology Conference (OTC) 2007	30 April–3 May 2007	Houston, Texas	G. Iturrino, E. Meissner, S. Mrozewski	LDEO
OTC 2007	30 April–3 May 2007	Houston, Texas	B. Aduddell, L. Chen, D. Ferrell, K. Grigar	TAMU
Mac Service 10.2 Training	1–4 May 2007	Austin, Texas	B. Crawford	TAMU
Presentation at University of Florida	7–9 May 2007	Gainesville, Florida	J. Fox	TAMU
Hewlett-Packard Training	7–11 May 2007	Richardson, Texas	G. Banta	TAMU
Media Awareness Training	8 May 2007	College Station, Texas	S. Boa, J. Corsiglia, K. Sjo-Gaber	JOI
CA/Pspice Simulation Training	8–12 May 2007	San Diego, California	L. Chen	TAMU
Delivery of enclosure	10 May 2007	Navasota, Texas	E. Moortgat	TAMU

Expedition 303/306 Second Postexpedition Meeting	14–17 May 2007	Kona, Hawaii	C. Zarikian	TAMU
The Management Concepts Group Training: Budget Estimating Using Excel	13–17 May 2007	Washington, D.C.	T. Louther	TAMRF
JOI Alliance Systems Integration Team (JASIT) Meeting	14 May 2007	Washington, D.C.	D. Divins	JOI
JASIT Meeting	14 May 2007	Washington, D.C.	D. Goldberg	LDEO
JASIT Meeting	14 May 2007	Washington, D.C.	J. Fox	TAMU
U.S. Scientific Ocean Drilling Vessel (SODV) Conversion Management Team (CMT) Meeting**	14–16 May 2007	College Station, Texas	S. Higgins	JOI
Pick up pycnometer box	16 May 2007	Navasota, Texas	E. Moortgat	TAMU
San Andreas Fault Observatory Advisory Board Meeting	16–18 May 2007	Sidney, British Columbia	J. Fox	TAMU
DSS Pressure Qualification Testing	16–18 May 2007	Sugarland, Texas	B. Aduddell, K. Grigar	TAMU
Council of Science Editors (CSE) Annual Meeting	18–22 May 2007	Austin, Texas	J. Castillo, J. Hesse	TAMU
Digital Archiving Training	20–25 May 2007	Washington, D.C.	J. Beck	TAMU
Employee Relocation	21 May 2007	College Station, Texas	L. Lembke-Jene	TAMU
2007 Oil and Gas Industry Symposium (National Instruments)	22 May 2007	Houston, Texas	E. Moortgat	TAMU
Operations Meetings	28 May–1 June 2007	College Station, Texas	S. Higgins	JOI
Science Steering and Evaluation Panel (SSEP) Meeting	29 May–1 June 2007	Houston, Texas	C. Meth, M. Morell	JOI
SSEP Meeting	29 May–1 June 2007	Houston, Texas	J. Weinberger	LDEO
SSEP Meeting	29 May–1 June 2007	Houston, Texas	K. Gamage, J. Geldmacher, C. John, J. Miller	TAMU
Meetings at Center for Deep Earth Exploration (CDEX)	30 May–1 June 2007	Yokohama, Japan	J. Fox	TAMU
Employee Relocation	2 June 2007	Carlsbad, California	T. Gustafson	TAMU
IODP Quality Assurance/Quality Control (QA/QC) Meeting	2–6 June 2007	Washington, D.C.	T. Williams	LDEO
Gartner Software and Asset Management Conference	2–7 June 2007	Nashville, Tennessee	D. Ponzio	TAMU
Power Management Design Seminar Series 2007	11 June 2007	Trenton, New Jersey	T. Hussein	LDEO
New Jersey Expedition Pre-Media Meeting	11 June 2007	Trenton, New Jersey	J. Corsiglia	JOI
SODV Project Advisory Committee (PAC) Meeting**	12–14 June 2007	College Station, Texas	D. Divins	JOI
Expedition 309/312 Second Postexpedition Meeting	8–16 June 2007	Tokyo, Japan	N. Banerjee, J. Geldmacher	TAMU
Dismantle and retrieve walk-in freezers	14 June–21 June 2007	Bay City, Texas	P. Rumford	TAMU
Woods Hole Oceanographic Institution Staff Meetings	17–19 June 2007	Woodshole, Massachusetts	J. Fox	TAMU
Environmental Protection and Safety Panel (EPSP) Meeting	18 and 19 June 2007	Houston, Texas	J. Baldauf, C. John	TAMU

IODP Operations Task Force (OTF) Meeting	20 June 2007	Houston, Texas	S. Higgins	JOI
IODP OTF Meeting	20 June 2007	Houston, Texas	M. Reagan	LDEO
IODP OTF Meeting	20 June 2007	Houston, Texas	J. Baldauf, M. Malone	TAMU
IODP DSS/Retrievable Memory Module (RMM) Qualification Testing	20–22 June 2007	Sugarland, Texas	T. Hussein, S. Mrozewski	LDEO
DSS/RMM Qualification Testing	20–22 June 2007	Sugarland, Texas	B. Aduddell, K. Grigar	TAMU
Science Advisory Structure Executive Committee (SASEC) Meeting	25 and 26 June 2007	Bremerhaven, Germany	D. Divins	JOI
2007 Virtualization Conference and Expo	25–27 June 2007	New York City, New York	R. Haribhakti	TAMU
Max OS.X Training	26–29 June 2007	Austin, Texas	J. Beck, T. Fulton	TAMU

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

**USIO funded this trip to a U.S. Scientific Ocean Drilling Vessel (SODV) Project meeting for D. Divins to attend as a USIO representative.

APPENDIX F: DATA REQUESTS

JANUS DATABASE

Top 10 Countries Accessing Janus Web Database*		
Rank	Country	Visitor Sessions
1	United States	29,420
2	Germany	658
3	United Kingdom	425
4	Australia	397
5	France	294
6	Japan	247
7	China	188
8	Canada	183
9	The Netherlands	127
10	Italy	81
	All others	996
	Total	33,016

*Excluding access from USIO-TAMU.

Top 20 Janus Web Queries*		
Rank	Query	Uploads
1	Sample report	1,463
2	Point calculator	1,042
3	Core photos	799
4	Hole trivia	633
5	Site hole summary	536
6	Core section summary	384
7	Bulk density (GRA)	370
8	Chemistry: interstitial water	313
9	Site details	292
10	Color reflectance (RSC)	287
11	Leg summary	286
12	Chemistry: carbonates	253
13	Sample requests	249
14	Moisture and density	248
15	Special holes	236
16	Site trivia	225
17	Prime data images	216
18	Hole core summary	215
19	P-wave velocity (PWS)	205
20	Rock eval	187
	Others	2,907
	Total	11,346

*Excluding access from USIO-TAMU.

Other Web Statistics*		
Database query hits		
	Entire site (successful)	66,929
	Average per day	735
Visitor sessions		
	Total number of visitor sessions	33,016
	Average per day	362
	Average length of visit	00:13:00
	International visitor sessions	10.89%
	Visitor sessions of unknown origin	0.00%
	Visitor sessions from United States	89.11%
Visitors		
	Unique visitors	6,131
	Visitors who only visited once	3,013
	Visitors who visited more than once	3,118
	Average visits per visitor	5.39

*Excluding access from USIO-TAMU.

Data Requests to Data Librarian*	
Requests	Total
Country:	
United States	24
United Kingdom	6
Canada	2
China	2
Columbia	2
Germany	2
Spain	2
Sweden	2
India	1
Ireland	1
Japan	1
Total	45
Data:	
Data request	21
Photo request	10
(total photos and prints = 86)	
DB query problem/question	9
Data question	2
Sample information	2
Log-in information	1
Total	45

*Excluding access from USIO-TAMU.

LOG DATABASE

Top 10 Countries Accessing Log Web Database*		
Rank	Country	Visitor Sessions
1	United States	2,123
2	Japan	133
3	Germany	51
4	France	47
5	United Kingdom	46
6	Brazil	36
7	Australia	32
8	The Netherlands	22
9	Taiwan	21
10	Italy	17
	All others	3,177
	Total	5,705

*Excluding access from USIO-LDEO.

Other Log Web Statistics*		
Database query hits		
	Entire site (successful)	14,552
	Average per day	760
Visitor sessions		
	Total number of visitor sessions	7,579
	Average per day	55
	Average length of visit	1:52
	International visitor sessions	7.87%
	Visitor sessions of unknown origin	54.94%
	Visitor sessions from United States	37.19%
Visitors		
	Unique visitors	6,215
	Visitors who only visited once	2,266
	Visitors who visited more than once	3,949
	Average visits per visitor	1.22

*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
<i>East Coast Repository:</i>			
		21160A, Gray, USA	29
		20882B, Rosenthal, USA	88
		20725D, Schmidt, USA	5
	1	21243C, Pusz, USA	9
		21186A, Martin, USA	27
		21212A, Stoner, USA	308
		20952B, Kalb, USA	78
		20808D, Dawber, England	178
		21207A, Billups, USA	299
	1	20700C, Raymo/Costanza, USA [Science]	No samples
	4	21256A, Kalb/Bralower/Schneider, USA, [Education]	No samples
	16	21270A, Malinverno, USA [Education]	No samples
Total science	2		
Total education	20		
Total PR	0		
Total:	22	9	1021
<i>Gulf Coast Repository:</i>			
		20469F, Fantle, USA	18
		20708B, Banergee, Canada	57
		21156A, Bilj, Netherlands	8
		20604C, Coggon, USA	26
		21159A, Pahnke, USA	43
		21193A, Scher, USA	92
		20842A, Shimada, Japan	313
		21142B, Grocke, Canada	133
	2	21232A, Woodard, USA	13
		21231A, Romans, USA	2
		21237A, Potter, Australia	7
		20868C, Ravizza, USA	24
		21196A, Pinero, Spain	336
		21206A, Etourneau, Germany	751
		21204A, Sun, China	215
		21266A, Shevenell, USA	99
		21197A, Rosenthal, USA	992
		21111B, Swart, USA	74
		21228A, Kameo, Japan	62
		21119B, Kalb, USA	16
		21235A, Wilbold, UK	32
		21251A, Gibbs, UK	39
		21209A, Wei, China	903
		21229A, Miriam, Italy	374
		21229B, Miriam, Italy	346
		21236A, Nuernberg, Germany	625
		21183A, Lissenberg, France	2
		21250A, Thaigarajan, USA	48
		212329A, Nozaki, Japan	72

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
		21248A, Westerhold, Germany	3
		21112B, Foster, UK	16
		21242A, Liu, UK	190
		21263A, Gupta, Sweden	152
		21274A, Groeneveld, Germany	24
		21278A, Foster, UK	4
		21283A, Barker, Canada	3
		21284A, Herbert, USA	2
		20089H, Diester-Haass, Germany	31
	1	21291B, John, USA	43
		21183A, Lissenberg, France	3
		21198B, Liu, USA	59
		21198E, Liu, USA	10
	1	21253B, Murphy, USA	3
		21286A, McClymont, UK	5
		20953B, Godfrey, USA	75
		21291A, John, USA	69
		21281A, Jiang, USA	115
		20880B, Peucker, USA	26
		21164A, Huckle, UK	109
		21299B, Wade, USA	1
		21274B, Groeneveld, Germany	28
	1	21292A, Murphey, USA	1474
		21292B, Murphy, USA,	248
		20842C, Shimada, Japan	313
	32	Public Relations Tour	No samples
Total science	4		
Total education:	0		
Total PR:	32		
Total:	36	54	8728
West Coast Repository:			
		21211A, Nurnburg/Tiedeman, Germany	421
	1	21218A, Sexton, USA	180
	1	21222A, Straub, USA	92
		21158B, Griffith, USA	27
		21235B, Willbold, UK	9
		21272A, Jiang/Wise, USA	21
		20732B, Wade, USA	53
		21283A, Barker/TweddeIII, Canada	3
		21287A, Byrne, Canada	2
		21289A, Munsel/Stueben, Germany	28
		21301A, Ando, Japan	8
	8	Norris, USA [Educational Tour and Sampling Orientation]	No samples
Total science:	2		
Total education:	8		
Total PR:	0		
Total:	10	11	844

APPENDIX H: PUBLICATIONS

Publication	Release Date	URL
There were no publications released during the quarter.		

APPENDIX I: WEB

Comparison of Web access statistics averages between FY07 Q2 and FY07 Q3 indicates a 4% increase in Web site traffic.

USIO

FY07 Q1 USIO Web Site (Servers: www.iodp-usio.org , iodp.ldeo.columbia.edu , iodp.tamu.edu)				
Parameter	JOI	LDEO	TAMU	Totals
Page views	19,571	11,583	463,800	494,954
Site visits*	12,524	8,084	57,045	77,653

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

New and updated Web pages	Release date	URL
Curation: IODP core repositories	Apr 2007	http://iodp.tamu.edu/curation/repositories.html
Newsroom: news release	Apr 2007	http://www.iodp-usio.org/Newsroom/releases/042507.html
Publications: USIO Annual Program Plans	Apr 2007	http://iodp.tamu.edu/publications/PP.html
Expeditions: information by expedition	May–Jun 2007	http://iodp.tamu.edu/scienceops/expeditions.html
Expeditions: Bering Sea expedition information	Jun 2007	http://iodp.tamu.edu/scienceops/expeditions/bering_sea.html
Curation: sample request form	Jun 2007	http://iodp.tamu.edu/curation/samples.html
Education: School of Rock	Jun 2007	http://www.joilearning.org/schoolofrock2007/
Laboratories: shipboard laboratories	Jun 2007	http://iodp.tamu.edu/labs/ship.html

APPENDIX J: DSDP/ODP CORE REDISTRIBUTION PROJECT

Six core shipments were shipped from the East Coast Repository (ECR) to the Bremen Core Repository (BCR) and four core shipments from the BCR to the GCR.

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—JOI LEARNING WEB SITE

JOI Learning staff worked with JOI information technology (IT) staff to complete the *JOI Learning* sections of the new overall JOI site, resolving issues and ensuring user-friendly content for appropriate target audiences. New and revised *JOI Learning* activities were posted to the Classroom Activities section of the site, as well as announcements of upcoming opportunities.

MATERIALS DEVELOPMENT AND EDUCATION PROGRAMS

TEACHER TRAINING PROGRAMS

JOI Learning staff announced and reviewed applications for three programs: the 2007 School of Rock workshop, a Teacher-at-Sea opportunity, and a new year-long teacher fellowship at the JOI offices.

School of Rock 2007

Two dozen applications were received for the School of Rock 2007 workshop; *JOI Learning* staff selected 15 outstanding teachers for participation. The workshop will be held 22–28 July 2007 at the Gulf Coast Repository in College Station, Texas.

Teacher-at-Sea Program

Eight applications were received for JOI's Teacher-at-Sea opportunity to sail with W. Sager (Professor of Marine Geology and Geophysics, TAMU) on the *Roger Revelle* from 18 June through 6 August 2007 during a site survey expedition on the Ninetyeast Ridge. *JOI Learning* staff selected R. Wilson, a middle school teacher in Meeker, Colorado. Wilson worked with students and staff to create a highly interactive and engaging Web site (www.joilearning.org/sea90e) that includes contests, science challenges, shipboard personnel profiles, questions and answers, and background information.

Teacher-in-Residence Program

JOI Learning staff selected L. Pacunas, a middle school teacher in Bethesda, Maryland, for the year-long Teacher-in-Residence fellowship. Beginning in August 2007, Pacunas will provide a helpful current classroom perspective and assist in development of new curricula and presentations at workshops and conferences.

TEACHER WORKSHOPS

In June 2007, *JOI Learning* staff and volunteers ran three separate teacher workshops for middle and high school teachers—one at Grand Valley State University, another in collaboration with Centers for Ocean Sciences Education Excellence (COSEE) Southeast, and one as part of the Virginia Content Academy at James Madison University.

JOI Learning was also represented by a team at the 2007 AccessData Workshop in Boston, Massachusetts, run by Technical Education Research Centers (TERC). *JOI Learning* representatives included D. Quoidbach (Manager of Information Services, USIO-LDEO), J. Weinberger (Logging Staff Scientists, USIO-LDEO), and M. Whaley (School of Rock Expedition participant). The workshop focused on using real data in education, and the work of the *JOI Learning* team will result in a chapter about data from ODP Leg 199 for the *Earth Exploration Toolbook* (<http://serc.carleton.edu/eet/>).

JOI DIVERSITY (MINORITY OUTREACH)

HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP

The USIO is contractually required to award two Historically Black Colleges and Universities (HBCU) Fellowships in FY08. The FY08 application deadline was 15 May 2007. Two applications were received; one from a graduate student at Howard University and one from an undergraduate student at Huston-Tillotson University.

One year-long fellowship was awarded to D. Godfrey, an undergraduate student in education at Huston-Tillotson University in Austin, Texas. Working under the guidance of K. Ellins (Program

Manager, University of Texas Institute for Geophysics [UTIG]), Godfrey will assist with implementation of “Earth Science Revolution Workshops,” a professional development series for teachers and teacher mentors. Godfrey’s work will commence on 15 August 2007. The first payment of \$7,500 will be released to Huston-Tillotson in August 2007 as an FY07 award; the second portion of the fellowship will be released in December 2007 as an FY08 award.

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

Building on successful experiences in 2005 and 2006, USIO supported the participation of four students and one program representative at IODP’s SSEP meeting held 29 May–1 June 2007 in Houston, Texas. MS PHD’S attendees included one graduate student from Stanford University, two graduate students and one postdoctoral candidate from University of South Florida, and one undergraduate student from City University of New York (CUNY), Lehman College.

During the meeting, the students engaged in a range of activities that contributed to their professional development. Five SSEP United States scientists acted as meeting mentors and engaged with the students regarding science discussions, proposal development and evaluation, and how science can serve as a diplomatic function in the international sphere.

Participant evaluations continue to indicate the value of these MS PHD’S activities in providing insights into the inner workings of science and professional organizations, valuable networking opportunities with scientists from a broad range of academic and research fields, and general professional development activities such as mentoring and career guidance. The cost to USIO for these activities was \$4,054.02.

CONGRESSIONAL OUTREACH

On 1 and 2 May 2007, IODP scientists G. Mountain (Rutgers University) and B. Clement (Florida International University) participated in the 12th Annual Science Engineering and Technology Congressional Visits Day 2007. Scientists and engineers visiting congressional offices aimed to underscore the long-term importance of science, engineering, and technology to the nation through meetings with congressional decision makers.

APPENDIX L: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

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