



INTEGRATED OCEAN DRILLING PROGRAM
United States Implementing Organization

FY08 Quarterly Report 2

1 January–31 March 2008

NSF Contract No. OCE-0352500

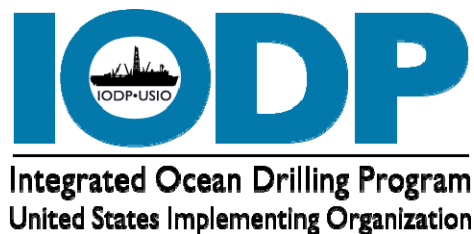
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to

The National Science Foundation

and

IODP Management International, Inc.



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INTRODUCTION

The organization of this quarterly report reflects activities and deliverables that are outlined in the Integrated Ocean Drilling Program U.S. Implementing Organization (IODP-USIO) FY08 Annual Program Plan as implemented by the USIO, which comprises the Consortium for Ocean Leadership, Inc. (Ocean Leadership), and its partners, Texas A&M University (TAMU) and Lamont-Doherty Earth Observatory (LDEO) of Columbia University.¹

MANAGEMENT AND ADMINISTRATION

CONTRACTUAL ACTIVITIES

OCEAN LEADERSHIP

NSF CONTRACT OCE-0352500 WITH OCEAN LEADERSHIP

Ocean Leadership received no modifications during the reporting period.

OCEAN LEADERSHIP SUBCONTRACT JSC 4-03 WITH LDEO

Ocean Leadership issued the following modifications during the reporting period.

- Modification 20: Provided incremental funding in the amount of \$581,495 toward FY08 Annual Program Plan activities.
- Modification 21: Decreased LDEO FY08 Annual Program Plan for science operating costs (SOC) activities by \$49,461 to correct an unreported FY06 credit.

OCEAN LEADERSHIP SUBCONTRACT JSC 4-02 WITH TAMRF

Ocean Leadership issued the following modification during the reporting period.

- Modification 27: Provided incremental funding in the amount of \$12,466,465 toward FY08 Annual Program Plan activities.

LDEO

LDEO SUBCONTRACT WITH LEICESTER

LDEO issued the following modification during the reporting period.

- Modification 6: Provided the first increment of funding in the amount of \$81,665 toward FY08 Annual Program Plan activities.

TAMRF

MISCELLANEOUS ACTIVITY

- 14 February 2008: Submitted request for blanket approval to loan government-owned property to commercial entities. Request denied.
- 25 February 2008: Submitted revised Small and Disadvantaged Subcontracting Plan and Revised SF294 Report to Ocean Leadership.

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

PERSONNEL STATUS

OCEAN LEADERSHIP

The following positions were vacated during the quarter:

- Director of Contracts and Grants (Carol Kokinda): 1 January 2008
- Contracts Specialist (Strat Cavros): 29 February 2008

The following position was opened and advertised during the quarter:

- Director of Contracts and Grants

The following position was filled during the quarter:

- Director of Contracts and Grants (Jeanine Hubler): 24 March 2008

LDEO

No positions were vacated, opened, or advertised during the quarter.

The following position was filled during the quarter:

- Logging Staff Scientist (Helen Evans): 1 February 2008

TAMU

The following positions were vacated during the quarter:

- Administrative Assistant (Martha Kacer): 31 January 2008
- Administrative Assistant (Sande Rogers): 20 February 2008
- Applications Developer II (Paul Paskin): 29 February 2008

The following positions were opened and advertised during the quarter:

- Editor II
- Senior Software Applications Developer

No positions were filled during the quarter.

IODP-USIO WEB SERVICES

Main activities during this quarter included publishing the Expedition 314 and 315 *Preliminary Reports*, assisting with the *Bubba's Tour* (www.deepearthacademy.org/Bubba) interactive learning activity for children, updating meeting information, designing the School of Rock 2008 Web site, and creating additional logging database content.

WEB SITE STATISTICS

Changes in Web site traffic from the previous quarter are given in parentheses. Where possible, visits by USIO employees and search engine spiders have been filtered out. Page statistics are inflated because the software does not differentiate pages viewed by search engines.

USIO WEB SITE

The USIO Web site is hosted at TAMU, LDEO, and Ocean Leadership.

FY08 Q2 USIO Web Site*				
Parameter	www.iodp-usio.org	iodp.ldeo.columbia.edu	iodp.tamu.edu	Total
Page views	16,220	58,133	417,900	492,253 (-23%)
Site visits	9,717	8,457	47,572	65,746 (-5%)

*As a result of the Ocean Leadership reorganization and Web site redesign, educational content is distributed among several Web servers and visits to these pages cannot be reported accurately, therefore they are not included in this table.

New and updated Web pages	Release date	URL
Curation: Sample request form	February 2008	http://iodp.tamu.edu/curation/samples.html
Publications: Order form	February 2008	http://iodp.tamu.edu/publications/order.html
Meetings schedule and resources	March 2008	http://iodp.tamu.edu/travel/meetings.html
School of Rock 2008 invitation	March 2008	http://www.oceanleadership.org/learning/teachers/school_of_rock
Bubba's Tour interactive activity	March 2008	http://www.oceanleadership.org/learning/bubba
Curation: Core repository information	March 2008	http://iodp.tamu.edu/curation/repositories.html

IODP PUBLICATIONS WEB SITE

The IODP Publications Web site is hosted at TAMU. New online publications are shown in the "Publications" section of this report.

FY08 Q2 IODP Publications Web Site	
Parameter	publications.iodp.org
Page views	198,128 (+19%)
Site visits	16,555 (-18%)

LEGACY WEB SITES

The Ocean Drilling Program (ODP) Science Operator Web site is hosted at TAMU. The ODP Legacy Web site is hosted at Ocean Leadership. The Deep Sea Drilling Project (DSDP) Publications Web site is hosted at TAMU.

Parameter	FY08 Q2 ODP Web Site			FY08 Q1 DSDP Web Site
	www-odp.tamu.edu	www.odplegacy.org	Total ODP	www.deepseadrilling.org
Page views	3,080,765	10,488	3,091,253 (+10%)	401,749 (+296%)
Site visits	239,658	4,281	243,939 (+15%)	11,677 (-9%)

TECHNICAL, ENGINEERING, AND SCIENCE SUPPORT

IODP-USIO EXPEDITION SCHEDULE

Delays in the shipyard realized during the quarter indicated that the ship will not be ready for international operations until November 2008. Because of limited operational weather windows for the Bering Sea, Canterbury Basin, and Wilkes Land expeditions, the expedition schedule could not simply be shifted to accommodate the shipyard delay. Instead, operations will commence with Canterbury Basin in November 2008, followed by Wilkes Land. The USIO and Operations Task Force (OTF) have not yet determined a resolution of the schedule after the Wilkes Land expedition.

EXPEDITION PLANNING AND IMPLEMENTATION ACTIVITIES

IODP-USIO PACIFIC EQUATORIAL AGE TRANSECT EXPEDITIONS

Expedition Staffing: The science party was notified of shipyard delays and informed that the two expeditions would not sail as originally scheduled, pending resolution of the schedule.

IODP-USIO JUAN DE FUCA HYDROGEOLOGY (REMEDIAL CEMENTING)

Expedition Planning: The proponent was notified of shipyard delays and informed that the cementing operations would not occur as originally scheduled.

IODP-USIO BERING SEA EXPEDITION

Expedition Staffing: The science party was informed that the Bering Sea expedition was being removed from the schedule and returned to the OTF. Because of the narrow weather window for the Bering Sea, the science party was uninvited.

IODP-USIO CANTERBURY BASIN EXPEDITION

Expedition Planning: The pre-expedition meeting was held 10 and 11 January 2008 in College Station, Texas. The Co-Chief Scientists identified two alternate sites in water depths of >650 m to provide some flexibility should sea state limit access to sites that fall under more restrictive shallow-water operational guidelines. New alternate sites will be forwarded to the Environmental Protection and Safety Panel (EPSP) in the next quarter. The scientific prospectus was written and submitted to IODP for review. Clearance for operations in New Zealand territorial waters was submitted to the U.S. State Department.

Expedition Staffing: Nominations from the program member offices (PMOs) were received, including the first nominations for participation in USIO expeditions from the Australia-New Zealand IODP Consortium, and initial invitations were issued.

IODP-USIO WILKES LAND EXPEDITION

Expedition Planning: The Co-Chief Scientists identified additional alternate sites to allow flexibility should sea ice prevent occupation of primary sites. New alternate sites will be submitted to EPSP during the next quarter. The scientific prospectus was written and submitted to IODP for review.

Expedition Staffing: Nominations were received from the PMOs and review by USIO staff and Co-Chief Scientists began.

STATUS OF EQUIPMENT

All equipment loaned to the Center for Deep Earth Exploration (CDEX) for Expeditions 314–316 was returned to the USIO. The equipment included two Davis-Villinger Temperature Probes (DVTPs), three advanced piston corer temperature tool (APCT) heat flow shoes, two heat flow catcher subs, one colleted delivery system, and one laptop computer.

PROJECTS AND OTHER ACTIVITIES

ADVANCED PISTON CORER TEMPERATURE TOOL MODEL 3

Complete acceptance of the Antares APCT Model 3 (APCT3) order was on hold, pending the delivery of electrical schematics and source code as outlined in the IODP-USIO purchase order. Antares made the decision not to provide these items because of trade secret concerns. An

agreement was reached to accept the APCT3 tools, with the condition that Antares provide data file formats, data communications formats, and commands used between the WinTemp software and the APCT3 data logger. One USIO APCT3 data logger has been calibrated for use during the next expedition.

COMMON DOWNHOLE DATA ACQUISITION SYSTEM

The sediment temperature tool (SET) with revision 5 common downhole data acquisition (CDAQ) electronics was deployed successfully three times during Expedition 316 on the *Chikyu* in 4000 m of water. Fourteen CDAQ revision 6 production boards were produced and tested. The boards were subsequently modified to revision 7, to maintain real-time clock memory after powering down.

DOWNHOLE SENSOR SUB AND REMOTE MEMORY MODULE

The Remote Memory Module (RMM) was shipped from LDEO to TAMU to test communication between the Downhole Sensor Sub (DSS) and RMM. The software and RMM worked fine. A faulty transmitter board and a malfunctioning power circuit were discovered in DSS 1, but DSS 2 passed all tests and will be prepared for shipment to Schlumberger for a drilling test with the RMM on 9 May 2008. The faulty transmitter board will be returned to APS Technologies for repair. The TAMU Tools and Analytical Services department began troubleshooting the power issue on DSS 1.

INSTRUMENTED WATER SAMPLER

The design of the instrumented water sampler (IWS) is ~90% complete. Preliminary designs for the new filter and filter test fixture are complete. Preliminary designs of the syringe and valve closing mechanisms have been completed and will be tested during the next quarter. Preparation of prototype motor controller electronics is 50% complete. Detailing parts will begin in April 2008.

LOCKABLE FLAPPER VALVE PROJECT

The lockable flapper valve (LFV) was designed to prevent fluids from backflowing up through the drill pipe. The current design presents an obstacle for logging operations because a closed LFV could snag a tool string as it is withdrawn from the open hole into the drill pipe. The goal of this project is to understand why the LFV closes and, if possible, to modify its design to eliminate premature closing. The five following major milestones were identified for the project:

1. Create a 3-D assembly model of the LFV in AutoDesk Inventor.
2. Create a test fixture to determine the physical conditions that cause the flapper to close prematurely.
3. Use the 3-D assembly model to test design changes.
4. Incorporate design changes in the build-up of a new LFV.
5. Evaluate performance of the new LFV.

The first two milestones are scheduled for completion by the end of next quarter and the third milestone by the end of the fourth quarter. The last two milestones will not be completed until FY09 because funding for this project was not approved until the second quarter of this year, resulting in delays in the completion schedule.

METROLOGY LABORATORY (CALIBRATION LABORATORY)

A 10 k Ω resistance standard was purchased and integrated into the resistance check standard procedure. Four additional resistance standards, 100 Ω , 100 k Ω , 400 Ω and 33 k Ω , are on order. These will allow in-house calibration of the black stack thermistor readout modules and resistance calibration of the CDAQ data logger. An additional standard thermistor module and standard thermistor have been purchased, received, and tested. These will provide redundancy and allow more thermistors to be calibrated in a single calibration run.

SCHLUMBERGER TELEMTRY PROJECT

The purpose of this project is to create a standard that will allow non-Schlumberger tools to be used with the Schlumberger data acquisition system. Schlumberger made modifications to their data acquisition software that opened channels for our use. LDEO modified a tool to make it compatible with the Schlumberger power supply format data output. This new protocol will be tested next quarter at the Schlumberger facilities in Webster, Texas. If land tests are successful, the protocol will be tested during shakedown cruise logging operations.

SEDIMENT TEMPERATURE TOOL

The SET was deployed successfully on the *Chikyu* during Expedition 316. The first release of the SET firmware supplied a 1 Hz sample rate for tip temperature, tip resistor, board temperature, and battery voltage, and a 10 Hz sample rate for the accelerometer.

SIMULATED BOREHOLE TEST FACILITY

Significant effort was devoted to the Simulated Borehole Test Facility (SBTF) assembly and operations manual, which is now 95% complete. Work began on configuring the SET tool for testing in the SBTF.

UNIVERSAL DOWNHOLE TELEMTRY MODULE PROJECT

This project will upgrade existing electronics on the Universal Downhole Telemetry Module (UDTM) to take advantage of greater processing power. Our student worker from the Columbia University Electrical Engineering department performed an initial product search and determined that JAVA-based SNAP and JStamp microcontrollers are the two most promising candidates. A series of test programs will be conducted on each model to determine their capabilities. After evaluation, one of these will replace the Rabbit core currently being used in the UDTM and will be the core module for future tool development at LDEO.

VERSATILE SEISMIC IMAGER

Work began on reconfiguring the Versatile Seismic Imager (VSI) to increase the efficiency of vertical seismic profile (VSP) or check shot surveys. In the new configuration, two or three geophones will be used instead of one, which will allow simultaneous recording of two (or three) stations and reduce the overall operating time by half.

ENGINEERING DEVELOPMENT

There are no Engineering Development deliverables scheduled for FY08.

DATA MANAGEMENT

PROJECTS AND OTHER ACTIVITIES

With the exception of items specified below, data management activities are currently supported by the U.S. Scientific Ocean Drilling Vessel (SODV) Project and are therefore not reported here.

JANUS DATABASE

Hole core summary metadata extensible markup language (XML) files for 1,900 holes (ODP Legs 101–210) were prepared, successfully harvested, and are available from the Scientific Earth Drilling Information Service (SEDIS) portal.

Scanned images of close-up photos from ODP Legs 101–145 were sent to the National Geophysical Data Center (NGDC). Close-up photos from DSDP Legs 46 and 47 were scanned and added to the Janus database.

LOG DATABASE

The database search page was improved with the addition of a live map of logged sites. Filenames, paths, and data descriptions were cleaned up. An additional table was added to the database to allow uniform resource locators (URLs) to point directly to data files. Searches now return file lists with the ability to download individual files as well as batch downloads. European Consortium for Ocean Research Drilling (ECORD) Science Operator (ESO) data for Expedition 310 were received and prepared for inclusion in the database. SEDIS Phase I hole-level metadata records were prepared for harvesting through the Open Archive Initiative Protocol for Metadata Harvesting (OAI-PMH) service.

IODP DATABASE DATA REQUESTS

JANUS DATABASE

Top 10 Countries Accessing Janus Web Database*		
Rank	Country	Visitor Sessions
1	United States	21,237
2	Germany	689
3	United Kingdom	377
4	Japan	296
5	France	274
6	The Netherlands	144
7	Canada	136
8	China	125
9	Norway	112
10	Spain	103
	All others	849
	Total	24,342

*Excluding access from TAMU.

Top 20 Janus Web Queries*		
Rank	Query	Uploads
1	D-tube labels	5,715
2	Sample report	1,322
3	Core photos	1,017
4	Site hole summary	909
5	Bulk density (GRA)	560
6	Hole details	544
7	Chemistry: carbonates	461
8	Moisture and density	448
9	Magnetic susceptibility	411
10	Core section summary	394
11	Sample requests	378
12	Hole core summary	359
13	Color reflectance	352
14	P-wave velocity: (pwl)	345
15	Leg summary	344
16	Natural gamma radiation	290
17	Paleontology investigation	254
18	Point calculator	253
19	P-wave velocity: (pws)	242
20	Chemistry: interstitial water	222
	Others	2,995
	Total	17,815

*Excluding access from TAMU.

Other Web Statistics*		
Database query hits		
	Entire site (successful)	68,129
	Average per day	748
Visitor sessions		
	Total number of visitor sessions	24,342
	Average per day	267
	Average length of visit	00:12:07
	International visitor sessions	12.75%
	Visitor sessions of unknown origin	0.00%
	Visitor sessions from United States	87.24%
Visitors		
	Unique visitors	4,985
	Visitors who only visited once	2,353
	Visitors who visited more than once	2,632
	Average visits per visitor	4.88

*Excluding access from TAMU.

Data Requests to Data Librarian*	
Requests	Total
Country:	
United States	25
United Kingdom	6
Germany	4
Norway	3
Australia	2
France	2
Spain	2
Canada	1
Denmark	1
The Netherlands	1
Total	47
Data:	
Data request	17
Photo request	10
Data question	8
DB query problem/question	8
Photo question	3
Data correction	2
Sample question	2
Data statistics	1
Total	47

*Excluding access from TAMU.

LOG DATABASE

Top 10 Countries Accessing Log Web Database*		
Rank	Country	Visitor Sessions
1	United States	428
2	United Kingdom	94
3	France	67
4	Canada	56
5	Germany	45
6	Japan	43
7	Italy	35
8	Brazil	34
9	India	19
10	The Netherlands	14
	All others	358
	Total	1,193

*Excluding access from LDEO.

Other Log Web Statistics*		
Database query hits		
	Entire site (successful)	58,133
	Average per day	8
Visitor sessions		
	Total number of visitor sessions	8,457
	Average per day	255
	Average length of visit	2:07
	International visitor sessions	34.12%
	Visitor sessions of unknown origin	30.01%
	Visitor sessions from United States	35.88%
Visitors		
	Unique visitors	5,875
	Visitors who only visited once	4,872
	Visitors who visited more than once	1,003
	Average visits per visitor	1.44

*Excluding access from LDEO.

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

CORE CURATION

SAMPLE REQUESTS

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
East Coast Repository:			
		21174A, Dekov/Kamenov, Bulgaria	4
		21395A, Kaminski, United Kingdom	57
		21227A, Abrantes/Silvia, Portugal	24
		21216D, Lawrence/Herbert, USA	5
		21413A, Mann/Xie, USA	19
		20932D, Peucker-Ehrenbrink, USA	57
		21435A, Girault/Thierstein, Switzerland	91
		21423A, Robinson/Dowsett, USA	16
Total science	0		
Total education	0		
Total PR	0		
Total:	0	8	273
Gulf Coast Repository:			
		21423A/Robinson/USA	29
		21380A/Elderfield/United Kingdom	619
		21387A/Laverne/France	12
		21365A/Acton/USA	28
		21083B/Westphal/Germany	0
		21401A/Dawson/Australia	13
		21210A/Erba/Italy	16
		21402A/Lalicata/USA	1,028
		21432A/Vautravers/United Kingdom	587
		21456A/Flemings/USA	7

IODP Expedition/ Repository	Visitors	Request Number, Name, Country	Number of Samples
		21434A/Foellmi/France	10
		21465A/Heid/USA	9
		21219B/Scott/New Zealand	9
		21216D/Lawrence/USA	5
		21438A/Knappertsbusch/Switzerland	11
	1	21380B/Eldefield/United Kingdom	243
		21435A/Girault/Switzerland	248
		21442A/Hermann/Switzerland	75
	1	21436B/Spinelli/USA	44
		21111C/Swart/USA	864
		21450A/Ford/USA	28
		21460A/Verleye/Belgium	4
		21062C/Norris/USA	89
		21448A/Kameo/Japan	505
		21062B/Norris/USA	177
		21017D/DeBernardi/Italy	158
		21441A/Kuroda/Japan	19
		20176E/Pusz/USA	190
		21432A/Vautravers/United Kingdom	60
		21250B/Thiagarajan/USA	24
		21132C/Tripati/United Kingdom	823
		21464A/Jackett/USA	1,126
	2	21474A/Marcantonio/USA	49
		20241B/Woodard/USA	61
		21482A/Iijima/Japan	48
		21341B/Rafter/USA	420
	8	21478A/Escutia/Spain	1,494
	1	21494A/Williams/USA	4
		21487A/Kyte/USA	48
		21506A/Pakunas/USA	4
		21471A/Waddell/USA	3
		20317F/Martin/USA	107
		20903B/Oda/Japan	246
	2	21498A/Dekens/USA	519
	1	20277C/Tejada/Japan	67
	28	21059A/Mack/USA (Education)	No samples
Total science	15	44	
Total education:	28	1	
Total PR:	0		
Total:	43	45	10,130
West Coast Repository:			
		21435A, Girault, Switzerland	78
		21436A, Spinelli, USA	89
	1	21462A, Doubrovine/Tarduno, USA	124
		21481A, Griffith/Payton, USA	1
		21513A, Cortese/Crundwell, New Zealand	3
Total science:	1		
Total education:	0		
Total PR:	0		
Total:	1	5	295

DSDP/ODP CORE REDISTRIBUTION PROJECT

The West Coast Repository (WCR) packed and shipped nine containers of core to the Kochi Core Center (KCC). The Gulf Coast Repository (GCR) packed and shipped eleven containers of core to KCC, and received one container of core from the East Coast Repository (ECR). KCC received and racked six containers of core from WCR and eight from the (GCR).

PUBLICATIONS

IODP-USIO REPORTS

FY07 IODP QUARTERLY REPORT

The IODP-USIO report for the first quarter of FY08 (October–December 2007) was submitted to NSF and the IODP central management office (IODP Management International, Inc. [IODP-MI]) on 10 February 2008.

IODP-USIO FY07 ANNUAL REPORT

The IODP-USIO FY07 Annual Report was submitted to NSF and IODP-MI on 10 January 2008.

FY08 ANNUAL PROGRAM PLAN

New NSF guidance received on 25 February 2008 directed the USIO to integrate into the FY08 U.S. Systems Integration Contract costs (SIC) budget all SOC operations costs, which are defined as “that which funds U.S. SODV SOC operations at sea and all costs in support of these operations such as planning, logistics, engineering science support, etc.” On 20 March 2008, the USIO submitted for review and evaluation to IODP-MI and NSF a fifth revision of the IODP-USIO FY08 Annual Program Plan for SOC and platform operating costs (POC) and submitted to NSF a revised Appendix to the FY08 Annual Program Plan for SIC.

The IODP-USIO FY08 Annual Program Plan consists of requests for SOC Nonoperations and POC costs of non-SODV mobilization activities, long-lead time items and the associated costs for expeditions proposed for FY09, and continuing SOC shore-based activities during FY08. The budget totaled \$37,341,338, with \$4,849,665 in SOC Nonoperations requested from IODP-MI and \$32,491,673 in POC requested from NSF.

In addition to SOC Operations costs, the Appendix to the IODP-USIO FY08 Annual Program Plan outlines requests related to the IODP-USIO U.S. Systems Integration Contract, which include costs that cover USIO efforts for completion of ODP publications work, education and outreach, and associated management and administrative support. The FY08 Annual Program Plan Appendix to NSF included a SIC budget totaling \$7,031,497 and also provided POC budget details and SOC Nonoperations budget details.

IODP SCIENTIFIC PUBLICATIONS

Publication	Release Date	Digital Object Identifier	Comments
Preliminary Reports:			
Expedition 314 (NanTroSEIZE Stage 1: LWD Transect)	February 2008	doi:10.2204/iodp.pr.314.2008	Edited and formatted for CDEX
Expedition 315 (NanTroSEIZE Stage 1: NanTroSEIZE Megasplay Riser Pilot)	February 2008	doi:10.2204/iodp.pr.315.2008	Edited and formatted for CDEX
Proceedings of the Integrated Ocean Drilling Program:			
Volume 301			
Data report: trace element, Sr isotope, and Ge/Si composition of fluids and sediments in ridge-flank low-temperature hydrothermal environments	15 February 2008	doi:10.2204/iodp.proc.301.202.2008	
Volume 302			
Data report: high-resolution bulk density, dry density, and porosity records from the Arctic Coring Expedition, IODP Expedition 302	17 January 2008	doi:10.2204/iodp.proc.302.201.2008	
Volume 308			
Data report: planktonic and benthic foraminifers from IODP Hole U1322B*	17 December 2007	doi:10.2204/iodp.proc.308.202.2007	
Data report: planktonic foraminifer stable isotope results from IODP Hole U1322B	5 March 2008	doi:10.2204/iodp.proc.308.201.2008	
Volume 311			
Data report: bulk mineralogical composition of Cascadia margin sediments, IODP Expedition 311	5 February 2008	doi:10.2204/iodp.proc.311.201.2008	
Data report: gas hydrate structural and compositional characterization by spectroscopic analysis, IODP Expedition 311	6 March 2008	doi:10.2204/iodp.proc.311.202.2008	

* Information about this publication was inadvertently omitted from FY08 Quarterly Report 1.

DISTRIBUTION OF SCIENTIFIC PUBLICATIONS

Publication	Number Distributed
IODP Publications:	
<i>Proceedings of the Integrated Ocean Drilling Program Expedition Report DVDs</i>	1
ODP Publications:	
<i>Proceedings of the Ocean Drilling Program, Initial Reports</i>	5
<i>Proceedings of the Ocean Drilling Program, Scientific Results</i>	2
DSDP Publications:	
<i>DSDP Initial Reports (books)</i>	2

RESOLUTION OF DIGITAL OBJECT IDENTIFIERS

IODP is a member of CrossRef, the official digital object identifier (DOI) registration agency for scholarly and professional publications. All IODP scientific reports and publications are registered with CrossRef and assigned a unique DOI that facilitates online access. DOIs have also been assigned to ODP and DSDP scientific reports and publications. CrossRef tracks the number of times a publication is accessed, or resolved, through the DOI system. Statistics for the second quarter are shown in the table below.

Reports and Publications	DOI Prefix	Resolutions			
		January 2008	February 2008	March 2008	FY08 Q2 Total
IODP	10.2204	2,103	2,272	2,680	7,055
ODP/DSDP	10.2973	2,380	2,190	2,948	7,518

PROJECTS AND OTHER ACTIVITIES

SOCIETY FOR TECHNICAL COMMUNICATION AWARDS

On 22 February 2008, the USIO won four awards in the Houston Chapter of the Society for Technical Communication (STC) annual awards competition. The awards were in the categories of informational materials, art packaging design, annual report design, and online communication. The Publication Services Department won an Award of Excellence for a site chapter from the *Proceedings of the Integrated Ocean Drilling Program Volume 307* in the informational materials category. In the technical publications category, the design for the IODP-USIO FY06 Annual Report and the art packaging design for the Expedition 310 digital versatile/video disk (DVD) won Distinguished awards. The Web site for the IODP-USIO SODV, the *JOIDES Resolution* (<http://iodp.tamu.edu/labs/ship.html>), won an Award of Merit in the category of online communication. The site shows the living environment, scientific labs, and analytical equipment available on the refurbished *JOIDES Resolution*. The winning entries advanced to STC's international awards competition.

EDUCATION

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

DEEP EARTH ACADEMY

EDUCATION VISUAL IDENTITY—DEEP EARTH ACADEMY WEB SITE

Deep Earth Academy continued to add new materials to its Web site, including new climate change materials and an outreach tool kit for scientists. Staff also worked with Web contractors to improve the usability and search functions of Classroom Activities pages.

The Ask-a-Scientist Web page completed its debut with Expedition 316, receiving more than 250 questions from students in the United States and Japan. Staff engaged the participation of numerous scientists and technicians on board the *Chikyu* and posted answers and images for 41 questions. We hope to continue this project during future expeditions.

In March 2008, Deep Earth Academy launched an interactive Web-based children's educational activity called *Bubba's Tour* (www.deepearthacademy.org/Bubba). Featuring audio, flash animation, and links to other Deep Earth Academy content, *Bubba's Tour* gives an overview of scientific ocean drilling, engages kids in questions and answers, and provides a puzzle for them to solve and a certificate of completion when done.

DISTRIBUTION OF EDUCATIONAL MATERIALS

During the quarter, Deep Earth Academy distributed 7,900 posters and 1,200 DVDs at conferences and outreach activities and in response to requests received through the Deep Earth Academy Web site. Materials were distributed at the following meetings.

Conference/Meeting/Workshop	Date	Location
American Meteorological Society (AMS) WeatherFest	20 January 2008	New Orleans, Louisiana
National Science Foundation (NSF) Open House	4 February 2008	Arlington, Virginia
2008 Advancing Science, Serving Society (AAAS) Annual Meeting: Science and Technology from a Global Perspective	14–17 February 2008	Boston, Massachusetts
South Carolina and Georgia Regional Competition, 2008 National Ocean Sciences Bowl	23 February 2008	Columbia, South Carolina
University of California Santa Cruz docent class	27 February 2008	Santa Cruz, California
Teacher workshop—Centers for Ocean Sciences Education Excellence (COSEE) Southeast (SE) Marine Education Center and Aquarium	February 2008	Savannah, Georgia
2008 Ocean Sciences Meeting: From the Watershed to the Global Ocean	2–7 March 2008	Orlando, Florida
Ocean Awareness Day Teacher Workshop—COSEE SE Leadership Seminar	8 March 2008	Duluth, Georgia
The North Carolina Aquarium—Ocean Awareness Day Workshop for classroom teachers	8 March 2008	Pine Knoll Shores, North Carolina
National Science Teachers Association (NSTA) National Conference on Science Education	27–30 March 2008	Boston, Massachusetts

MATERIALS DEVELOPMENT AND EDUCATION PROGRAMS

MATERIALS DEVELOPMENT

Deep Earth Academy developed and produced a *Bubba's Tour* bookmark to accompany the interactive Web-based children's educational game, new core pencils, Deep Earth Academy stickers, an updated microfossils poster, a climate change postcard, *JOIDES Resolution* cookie cutters, and drill site beach balls with an accompanying Web page of activities (www.deepearthacademy.org/globe).

The 2007 School of Rock participants created data-rich, inquiry-based classroom activities that were teacher-developed, tested, and scientifically reviewed prior to posting on the Activity of the Month Web site (www.oceanleadership.org/learning/activityofthemonth/home). These activities also served as the basis for monthly e-mail updates for educators across the nation. Activity of the Month features for this quarter included “Where in the World?” (January 2008), teaching Grades 4–8 about latitude and longitude in relation to global position; “It’s Not Just the Core that Tells the Story” (February 2008), teaching Grades 7–12 about downhole logging technology; and “Magnets at the Core” (March 2008), teaching Grades 7–12 about magnetic orientation of deep-sea sediment cores.

SCHOOL OF ROCK

Deep Earth Academy began planning the 2008 School of Rock workshop to be held 6–14 July 2008 at the GCR in College Station, Texas. The program will focus on climate change. Development of curriculum and presentation materials began, the workshop was advertised, and applications and information were posted online (www.oceanleadership.org/learning/SOR2008).

TEACHER-AT-SEA PROGRAM

In March 2008, the Sea90E poster and associated Web site (www.oceanleadership.org/sea90e) produced with 2007 Teacher-at-Sea R. Wilson (Mathematics Teacher, Barone Middle School,

Meeker, Colorado) were selected as finalists in the Association of Educational Publishers 2007 Distinguished Achievement Awards competition. Winners will be announced in June 2008.

TEACHER-IN-RESIDENCE PROGRAM

Ocean Leadership Teacher Fellow L. Pacunas communicated with teachers through monthly e-mail updates, organized Deep Earth Academy presence at conferences, reviewed activities for pedagogical appropriateness, and implemented creative outreach ideas. Though funded through the U.S. Science Support Program (USSSP), Pacunas worked on both USSSP- and IODP-funded projects, including planning for School of Rock 2008, developing new educational products for use by teachers and students, and developing the outreach tool kit for scientists.

TEACHER WORKSHOPS*

Conference/Meeting	Date	Location
Climate Change: Science and Solutions—8th National Conference on Science, Policy, and the Environment (S. Cooper [Assistant Education Director, Ocean Leadership])	16–18 January 2008	Washington, D.C.
Mohawk Guy and his Band of Neogene Planktic Foraminifer Friends (Classroom Outreach)—(M. Leckie [School of Rock 2005 Mentor] and T. King and B. King [School of Rock 2007 alumni])	21–23 January 2008	Lebanon, Tennessee
All Girls Day Workshop (T. King [School of Rock 2007 participant])	9 February 2008	Lebanon, Tennessee
TeXas Earth and Space Science (TXESS) Revolution: Poking Holes into the Planet (K. Ellins [HBCU Fellow mentor])	14–16 February 2008	Austin, Texas
American Meteorological Society (AMS) WeatherFest (M. Passow [School of Rock 2007 alumnus])	20 February 2008	New Orleans, Louisiana
2008 Ocean Sciences Meeting: From the Watershed to the Global Ocean—Sharing Scientific Ocean Drilling's Greatest Hits with Educators (S. Cooper and L. Peart [Director of Education, Ocean Leadership])	4 March 2008	Orlando, Florida
Alamo Regional Academy of Science and Engineering Presentation (C. Buchholtz [School of Rock 2005 alumnus])	8 March 2008	San Antonio, Texas
2008 NSTA National Conference sessions and National Earth Science Teachers Association Space Science Share-a-Thon [Deep Earth Academy staff and SOR alumni]	27–30 March 2008	Boston, Massachusetts

*Teacher workshops that were conducted by representatives of the Deep Earth Academy or at which representatives of Deep Earth Academy gave presentations.

DIVERSITY SUPPORT ACTIVITIES

HISTORICALLY BLACK COLLEGES AND UNIVERSITIES FELLOWSHIP

Coordination of the Historically Black Colleges and Universities (HBCUs) fellowship was transferred from A. Castner (Director of Board Relations, Ocean Leadership) to M. Morell (Assistant Director of Ocean Drilling Programs, Ocean Leadership). Discussions began for selection of Fellow candidates for FY09. Plans include targeting Hampton University (Hampton, Virginia) and other HBCUs.

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

Coordination of Ocean Leadership's participation in the Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD'S) Initiative was transferred from A. Castner to C. Meth (Assistant Director of the U.S. Science Support Program [USSSP], Ocean Leadership).

The USIO will support the participation of four students and one program representative at IODP's Science Steering and Evaluation Panel (SSEP) meeting to be held 19–22 May 2008 in

Busan, South Korea. MS PHD'S attendees selected during the quarter include one graduate student from Stony Brook University (Stony Brook, New York) and three undergraduate students, one each from Queens College (New York City, New York), Universidad Metropolitana (Cupey, Puerto Rico), and University of West Georgia (Carrollton, Georgia).

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:

- J. Corsiglia (Communications Associate, Ocean Leadership) gave an introductory public and media outreach presentation via videoconference to expedition Co-Chief Scientists, Staff Scientists, and key operations staff at the Canterbury Basin pre-expedition meetings on 10 and 11 January 2008 in College Station, Texas.
- Ocean Leadership convened two scientific symposia at the 2008 Annual Meeting of the American Association for the Advancement of Science (AAAS) on 14–18 February 2008 in Boston, Massachusetts. The symposia related recent results from paleoclimate investigations of IODP to modern systems.
- Ocean Leadership organized and hosted the Ocean Leadership Public Policy Forum on Ocean Science Infrastructure, on 28 February 2008 on Capitol Hill.
- Ocean Leadership produced and staffed a 300-square-foot exhibit at the 2008 Ocean Sciences Meeting on 2–7 March 2008 in Orlando, Florida.

PUBLIC RELATIONS MATERIALS

USIO MEDIA ADVISORIES/NEWS RELEASES

The following media advisories were distributed this quarter:

- Climate change symposia at AAAS Annual Meeting (13 February 2008).
- Join Deep Earth Academy at the NSTA conference in Boston [multimedia advisory] (14 March 2008). <http://oceanleadership.org/deepearthacademy/nsta2008>

The following news release was distributed this quarter:

- UPDATE: IODP—U.S. Implementing Organization and the *JOIDES Resolution* (25 March 2008).

ARTICLES AUTHORED BY USIO STAFF

Science and other articles authored by USIO staff published during this quarter include the following. Bold type indicates USIO staff. 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).

- **Inwood, J., Brewer, T., Braaksma, H., and Pezard, P., 2008.** Integration of core, logging and drilling data in modern reefal carbonates to improve core location and recovery estimates (IODP Expedition 310). *J. Geol. Soc.*, 165(2):585–596. [doi:10.1144/0016-76492007-041](https://doi.org/10.1144/0016-76492007-041)
- **Tsuji, T., and Iturrino, G.J., 2008.** Velocity-porosity relationships in oceanic basalt from eastern flank of the Juan de Fuca Ridge: the effect of crack closure on seismic velocity. *Explor. Geophys.*, 39(1):41–51. [doi:10.1071/EG08001](https://doi.org/10.1071/EG08001)

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.

- *CORDIS News*, 2008. Earth’s ‘super greenhouse’ period did not prevent glaciation, research suggests. *CORDIS News*, 11 January 2008. http://cordis.europa.eu/fetch?CALLER=EN_NEWS&ACTION=D&SESSION=&RCN=28971
- Hill, J., 2008. Deep-ocean researchers target tsunami zone near Japan. *Canada Free Press*. 21 January 2008. <http://canadafreepress.com/index.php/article/1495>
- Kerr, R.A., 2008. More climate wackiness in the Cretaceous supergreenhouse? *Science*, 319(5860):145. [doi:10.1126/science.319.5860.145a](https://doi.org/10.1126/science.319.5860.145a)
- Madrigal, A., 2008. Highlights from the floor of the AAAS Annual Meeting. *Wired Science*, 18 February 2008. <http://blog.wired.com/wiredscience/2008/02/highlights-from.html>
- Normile, D., 2008. Japan’s ocean drilling vessel debuts to rave reviews. *Science*. 319(5866):1037. [doi:10.1126/science.319.5866.1037](https://doi.org/10.1126/science.319.5866.1037)
- *Oil and Gas Journal*, 2008. US–India study discovers large gas hydrate presence. *Oil Gas J.*, 18 February 2008.
- *ScienCentralNews*, 2008. Supergreenhouse climate mystery. *ScienCentralNews*, 26 February 2008. http://www.sciencentral.com/articles/view.php3?type=article&article_id=218393068
- *ScienceDaily*, 2008. Core samples from subsea fault system off Japan will help explain how earthquakes are generated. *ScienceDaily*, 11 February 2008. <http://www.sciencedaily.com/releases/2008/02/080205125248.htm>
- *Thaindian News*, 2008. Analysis of ancient global warming event provides clues to what the future may hold. *Thaindian News*, 17 February 2008. http://www.thaindian.com/newsportal/health/analysis-of-ancient-global-warming-event-provides-clues-to-what-the-future-may-hold_10018354.html
- *Thaindian News*, 2008. Scientists detect strong variation in tectonic stresses in Japan’s earthquake generating zone. *Thaindian News*, 18 January 2008. http://www.thaindian.com/newsportal/health/scientists-detect-strong-variation-in-tectonic-stresses-in-japans-earthquake-generating-zone_10013278.html
- *The Eagle*, 2008. College town for January 13. *The Eagle* [Bryan–College Station, Texas], 13 January 2008. http://www.theeagle.com/local/COLLEGE_TOWN2008_01_12T19_52_00 [Staff members from the IODP-USIO were recognized for their outstanding work during an

annual awards competition sponsored by the Houston Chapter of the Society for Technical Communication.]

- *The Eagle*, 2008. Graduate students awarded prestigious Schlanger Fellowships. *The Eagle* [Bryan–College Station, Texas], 16 March 2008. http://www.oceanleadership.org/ocean_drilling/inthenews/BCEagle_2008-03-16
- *United Press International*, 2008. Geological cores explain how quakes occur. *United Press International*, 7 February 2008. http://www.upi.com/NewsTrack/Science/2008/02/07/geological_cores_explain_how_quakes_occur/7568/
- Wasserrab, J., 2008. World races to win Arctic treasure hunt. Jan. 13, 2008. *Deutsche Welle*, 13 January 2008. <http://www.dw-world.de/dw/article/0,2144,3048136,00.html>

MUSEUM PARTNERSHIPS

Deep Earth Academy staff met with Smithsonian personnel in January 2008 to discuss partnering on a family festival and related activities to coincide with the opening of the Ocean Hall in September 2008. This partnership would involve working with staff and students from the Duke Ellington School for the Arts.

CONGRESSIONAL OUTREACH

See highlighted Ocean Leadership Public Policy Forum event under “Public Affairs.”

USIO INTERACTIONS WITH IODP-MI AND OTHER IMPLEMENTING ORGANIZATIONS

INTERACTIONS

LOGGING-WHILE-DRILLING OPERATIONS FOR ESO EXPEDITION 313

LDEO personnel discussed logging-while-drilling (LWD) operations and staffing for Expedition 313 with S. Davies (European Petrophysics Consortium Manager, Leicester University). LDEO will provide assistance with both staffing and the lease of LWD equipment for this expedition.

USIO SERVICES ON BOARD THE *CHIKYU*

DOWNHOLE MEASUREMENT SUPPORT TO CDEX

The USIO completed provision of formation temperature measurement services on board the *Chikyu* during Expeditions 315 and 316 using USIO-loaned downhole measurement tools. The SET was deployed successfully several times and both the APCT and SET provided critical and high-quality formation temperature data to the science party (see “Status of Equipment” and “Projects and Other Activities” in “Technical, Engineering, and Science Support” for more information).

PUBLICATIONS SUPPORT TO CDEX

Report coordination: The USIO completed provision of publications support on board the *Chikyu* during Expeditions 314–316. In late February, the USIO provided CDEX with a review document detailing the FY08 publications experience from the USIO’s perspective. Review comments were divided into four categories: overarching comments, requested clarifications,

future requirements, and suggestions. The document was reviewed with CDEX staff in February 2008 and the USIO asked for a response by 1 April 2008 if CDEX would like the USIO to provide publications coordination services for CDEX's FY09 IODP expeditions.

First CDEX postexpedition meeting: The USIO provided meeting facilities and publications support for CDEX's first IODP postexpedition meeting on 25–29 February 2008. The meeting was scheduled in College Station, Texas, to allow access to the Publication Services staff, which is responsible for formatting and editing scientific reports and publications from all IODP implementing organizations (IOs).

MEETINGS

ENGINEERING DEVELOPMENT PANEL MEETING

The Engineering Development Panel (EDP) Meeting was held 9–11 January 2008 in Nice, France (see “Appendix C” for list of USIO attendees). K. Grigar (Staff Engineer, TAMU) and S. Mrozewski (Mechanical Engineer, LDEO) provided a review of FY07 activities and an update of ongoing FY08 projects. USIO attendees participated in discussions on improving VSP data acquired using the *JOIDES Resolution*.

SITE SURVEY PANEL MEETING

The Site Survey Panel (SSP) Meeting was held 23–25 January 2008 in Tokyo, Japan (see “Appendix C” for list of USIO attendees). Adam Klaus (Supervisor of Science Support, TAMU) gave a presentation covering major current USIO operational and planning activities and issues including ship conversion, expedition implementation, ship scheduling, DSDP/ODP digital publications availability, USIO support for *Chikyu* expeditions, and program challenges.

SCIENTIFIC TECHNOLOGY PANEL MEETING

The Scientific Technology Panel (STP) Meeting was held 18–20 February 2008 in Sendai, Japan (see “Appendix C” for list of USIO attendees). D. Houpt (Supervisor of Analytical Systems, TAMU) presented an update on current projects including the SODV and general USIO programmatic information. T. Williams (Logging Staff Scientist, LDEO) presented progress on the magnetic susceptibility sonde developed by LDEO. USIO attendees also participated in discussions of the Quality Assurance/Quality Control (QA/QC) Task Force final report, IODP measurements, microbiological science issues (e.g., patent rights, legacy samples), reference collections for lithology and paleontology, and the Scientific Technology Roadmap.

DATA MANAGEMENT COORDINATION GROUP

A technical meeting of the Data Management Coordination Group (DMCG) was held 18–23 February 2008 in Sapporo, Japan (see “Appendix C” for list of USIO attendees). P. Foster (Supervisor of Applications Development, TAMU) provided an update on the Sample and Data Request Management and Central Inventory projects, D. Quoidbach (Manager of Information Services, LDEO) presented an update on the logging database, and S. Higgins (Associate Director of Ocean Drilling Programs, Ocean Leadership) presented an update on CoreWall and Corellator. USIO attendees participated in a review of progress of the SEDIS I portal and generation of metadata by the IOs, SEDIS II, and SEDIS III, and discussed the issue of persistent data sets.

In early February 2008, prior to the DMCG meeting, J. Collier (IODP-MI Data Manager) visited USIO staff at LDEO and TAMU to discuss data management topics.

SCIENCE PLANNING COMMITTEE MEETING

The Science Planning Committee (SPC) Meeting was held 3–6 March 2008 in Barcelona, Spain (see “Appendix C” for list of USIO attendees). D. Divins (Director of Ocean Drilling Programs, Ocean Leadership) presented the USIO report, which highlighted the budget difficulties facing the USIO and IODP. Particular emphasis was placed on the high percentage of the USIO operating budget that is required to meet contractual obligations and consequently the small amount of funds available for science. An update on the SODV conversion was also given.

APPENDIX A: FINANCE REPORT

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

APPENDIX B: CONFERENCE AND MEETING SCHEDULE*

Conference/Meeting	Date	Location
Engineering Development Panel (EDP) Meeting	9–11 January 2008	Nice, France
Canterbury Basin Expedition 321 Pre-expedition Meeting	10 and 11 January 2008	College Station, Texas
Science Advisory Structure Executive Committee (SASEC) Meeting	15 and 16 January 2008	Santa Cruz, California
Site Survey Panel (SSP) Meeting	23–25 January 2008	Tokyo, Japan
Industry–IODP Science Program Planning Group (IIS PPG) Meeting	28 and 29 January 2008	Pau, France
American Association for the Advancement of Science (AAAS) Annual Meeting	14–18 February 2008	Boston, Massachusetts
Scientific Technology Panel (STP) Meeting	18–20 February 2008	Sendai, Japan
Data Management Coordination Group (DMCG) Technical Meeting	18–23 February 2008	Sapporo, Japan
Expedition 314 Postcruise Meeting	25–30 February 2008	College Station, Texas
Ocean Leadership Public Policy Forum on Ocean Science Infrastructure	28 February 2008	Washington, D.C.
2008 Ocean Sciences Meeting	2–7 March 2008	Orlando, Florida
Science Planning Committee (SPC) Meeting	3–6 March 2008	Barcelona, Spain
USIO Meeting with National Science Foundation (NSF)	13 March 2008	Washington, D.C.
National Science Teachers Association (NSTA) National Conference on Science Education	27–30 March 2008	Boston, Massachusetts

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

APPENDIX C: TRAVEL*

Purpose	Dates	Location	Institution: Personnel
Publication Specialist Services during Center for Deep Earth Exploration (CDEX) Expedition 316 (<i>Chikyu</i>)	10 December–9 January 2008	Nankai Trough, Kumano-nada, Offshore Kii Peninsula, Japan	TAMU: G. Lowe
Formation Temperature Measurement Services during CDEX Expedition 316 (<i>Chikyu</i>)	16 December–7 February 2008	Nankai Trough, Kumano-nada, Offshore Kii Peninsula, Japan	TAMU: M. Meiring
Publication Specialist Services during CDEX Expedition 316 (<i>Chikyu</i>)	4 January–7 February 2008	Nankai Trough, Kumano-nada, Offshore Kii Peninsula, Japan	TAMU: K. Petronotis
Engineering Development Panel (EDP) Meeting	9–11 January 2008	Nice, France	LDEO: S. Mrozewski TAMU: K. Grigar
Canterbury Basin Expedition 321 Pre-cruise Meeting	10 and 11 January 2008	College Station, Texas	LDEO: G. Guerin, A. Slagle
Passport Application	16 January 2008	Houston, Texas	TAMU: C. Peng
Review of <i>JOIDES Resolution</i> refurbishment	19–25 January 2008	Singapore	TAMU: J. Fox
Site Survey Panel (SSP) Meeting	23–25 January 2008	Tokyo, Japan	TAMU: Adam Klaus
Management Concepts Activity-Based Cost Management Course	30 January–1 February 2008	Washington, D.C.	TAMRF: B. Lancaster
Engineering Meeting at Falmouth Scientific	12–15 February 2008	Falmouth, Massachusetts	TAMU: R. Grout
FrameMaker 8 Training	13–16 February 2008	Raleigh, North Carolina	TAMU: M. Chapman, P. Edwards
Scientific Technology Panel (STP) Meeting	18–20 February 2008	Sendai, Japan	Ocean Leadership: S. Higgins LDEO: T. Williams TAMU: D. Houpt

Data Management Coordination Group (DMCG) Technical Meeting	18–23 February 2008	Sapporo, Japan	Ocean Leadership: S. Higgins LDEO: D. Quoidbach TAMU: P. Foster, D. Sims
Relocation	18–27 January 2008	Bremerton, Washington	TAMU: R. Gjesvold
IODP Management International, Inc. (IODP-MI), Planning Meeting	22 February 2008	Houston, Texas	TAMU: J. Fox
Meeting with Transocean, Inc., risk management staff regarding ship insurance	22 February 2008	Houston, Texas	TAMRF: K. Johnson, B. Wasson
Acceptance Test for Drill Pipe Stress Program	26 February 2008	Houston, Texas	TAMU: R. Grout, M. Storms
2008 Annual Trans-Texas Videoconference Network (TTVN) Conference	26–29 February 2008	Galveston, Texas	TAMU: D. Becker
FY07 Annual Report, ODP Final Technical Report, and CDEX Expeditions Debriefings and Publications Meetings	26 February–6 March 2008	College Station, Texas	TAMU: G. Lowe
IODP/SEDCLIM Sampling Party	2–6 March 2008	College Station, Texas	LDEO: T. Williams
Science Planning Committee (SPC) Meeting	3–6 March 2008	Barcelona, Spain	Ocean Leadership: D. Divins LDEO: A. Malinverno
2008 Ocean Sciences Meeting	3–7 March 2008	Orlando, Florida	Ocean Leadership: S. Cooper, J. Corsiglia, L. Peart. TAMU: J. Firth
Geological Society of America (GSA) 2008 GeoHealth I Meeting	4–6 March 2008	Reston, Virginia	TAMU: K. Gamage
U.S. Scientific Ocean Drilling Vessel (SODV) Shipyard Meeting**	8–12 March 2008	Singapore	Ocean Leadership: D. Divins
USIO Meeting with National Science Foundation (NSF)	13 March 2008	Washington, D.C.	TAMRF: B. Wasson
National Science Teachers Association (NSTA) National Conference on Science Education	27–30 March 2008	Boston, Massachusetts	Ocean Leadership: S. Cooper, L. Peart

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

**USIO funded this trip for USIO representative(s) to attend an SODV Project meeting.

APPENDIX D: IODP-USIO QUARTERLY REPORT DISTRIBUTION LIST

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