

## Science Implementation and Policy Committee

### 2nd Meeting, 19-20 June 2012, Washington DC, USA

#### Science Advisory Structure Executive Committee – SIPCOM

Keir Becker	University of Miami
Jan de Leeuw	Royal Netherlands Institute for Sea Research, The Netherlands
Robert Dunbar	Stanford University
Javier Escartin	CNRS Institut de Physique du Globe
Gretchen Frueh-Green	ETH Zurich, Switzerland
Takashi Hasegawa	Kanazawa University
Akira Hayashida	Doshisha University
Yasufumi Iryu	Nagoya University
Akira Ishiwatari	Tohoku University
Hodaka Kawahata	The University of Tokyo
Dick Kroon	The University of Edinburgh
Young-Joo Lee (N)*	Korea Institute of Geoscience and Mineral Resources (KIGAM)
Zhifei Liu (N) *	Tongji University
Richard Murray	Boston University
Terry Quinn	University of Texas at Austin
Ram Sharma (N)	Ministry of Earth Science
Ruediger Stein	Alfred Wegener Institute for Polar and Marine Research
Lisa Tauxe	University of California, San Diego
Damon Teagle	University of Southampton
Paul Wilson*	University of Southampton
Hiroiyuki Yamamoto	Japan Agency for Marine-Earth Science and Technology (JAMSTEC)
Chris Yeats (N)	CSIRO Earth Science and Resource Engineering

\*Unable to attend  
(N) – non-voting

#### Liaisons, Observers and Guests

Jamie Allan	National Science Foundation (NSF)
Wataru Azuma	Center for Deep Earth Exploration (CDEX), JAMSTEC
Rodey Batiza	National Science Foundation
Gilbert Camoin	ECORD Managing Agency (EMA)
Emidio Cantidio	CAPES foundation (Ministry of higher education, Brazil)
Bradford Clement	IODP, Texas A&M University
Mike Coffin	University of Tasmania
David Divins	Consortium for Ocean Leadership
Robert Gatliff	British Geological Survey
Jeff Gee	SCRIPPS/University of California, San Diego
Holly Given	IODP Management International, Inc.
Chris Harrison	University of Miami
Tom Janecek	National Science Foundation (NSF)
Yoshihisa Kawamura	IODP Management International, Inc.
Gil Young Kim	Korea Institute of Geoscience and Mineral Resources
Anthony Koppers	Oregon State University
Shin'ichi Kuramoto	Ministry of Education, Culture, Sports, Science and Technology
Hans Christian Larsen	IODP Management International, Inc.
Gunn Mangerud	University of Bergen
David McInroy	British Geological Survey
Chara Meth	U.S. Science Support Program, Consortium for Ocean Leadership

Kiyoka Miki	Ministry of Education, Culture, Sports, Science and Technology
Borissova Milena	ECORD Managing Agency (EMA)
Dhananjai Pandey	National Centre for Antarctic and Ocean Research
Jeff Schuffert	U.S. Science Support Program, Consortium for Ocean Leadership
Shingo Shibata	Ministry of Education, Culture, Sports, Science and Technology
Kiyoshi Suyehiro	IODP Management International, Inc.
Jun Tian	Tongji University
Hidekazu Tokuyama	Kochi Core Center
Pinxian Wang	Tongji University
Michiko Yamamoto	IODP Management International, Inc.

**Science Implementation and Policy Committee**

**2nd Meeting, 19-20 June 2012,**

**Washington DC, USA**

**EXECUTIVE SUMMARY (ver. 3)**

<b>Tuesday</b>	<b>19 June 2012</b>	<b>09:00-17:30</b>
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**1. Introduction**

**SIPCOM Consensus 1206-01:** SIPCOM approves the agenda for its second meeting, 19-20 June, in Arlington, VA, USA.

**SIPCOM Motion 1206-02:** SIPCom approves the minutes of the 19-20 January 2012 meeting held in Goa, India.

*Murray moved, Tauxe seconded, 15 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Stein, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 2 non-voting (Sharma, Yeats).*

**3. IODP-MI program plan**

**3.1. SIPCOM discussion/approval of FY13 APP**

**SIPCOM Action Item 1206-03:** SIPCom will review the FY13 APP provided by IODP-MI in July to ensure that it effectively supports both the planned FY13 science operations and preparation for the post-2013 program (including FY14 operations, workshops for developing post-2013 proposals, transition support). The SIPCom budget subcommittee will provide a summary and recommendation to SIPCom soon after the APP is provided, and SIPCom will then forward its recommendation to the IODP-MI Board of Governors and IODP agencies in a timely manner.

## 4. IO Reports

### 4.1 CDEX

**SIPCOM Consensus 1206-04:** The 2011 Tohoku earthquake and tsunami caused great devastation to Japan and was a major tragedy of international importance. However, this major rupture, with unprecedented geophysical observations, also provided an ephemeral opportunity to sample, instrument, and monitor the active slip zone of a mega-earthquake.

SIPCom commends CDEX personnel and the scientific proponents for their rapid response through the timely mobilization of IODP Expedition 343 Japan Trench Fast Drilling Project (JFast) and their success in tackling the major technical challenges of drilling a deep hole in ultra-deep waters. The community looks forward to the completion of the installation of the borehole instrumentation during the July JFAST-2 expedition.

SIPCom is also very encouraged that this unexpected but necessary campaign, will not have any detrimental impact on the other Chikyu operations, and notably that the NanTroSeize project will be followed through to completion as previously planned.

## 5. PEP report

### 5.2 Proposals status (regions & themes)

**SIPCOM Consensus 1206-05:** SIPCOM thanks Dick Kroon and Michiko Yamamoto for providing a quantitative view of how the proposals currently in the pipeline at PEP or OTF address and/or relate to the specific scientific challenges for ocean drilling as articulated in the Science Plan.

## 7. FY14 Drilling Schedule

### 7.2 SIPCOM approval of FY14 schedule

**SIPCOM Motion 1206-06:** SIPCom approves the FY14 drilling schedule as presented by OTF (Agenda Item 7.1).

*Murray moved, Tauxe seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Stein, Tauxe, Teagle, Yamamoto), 0 opposed, 1 abstained (Hasegawa), 2 non-voting (Sharma, Yeats).*

## 8. Discussion of Proposal Guidelines and evaluation criteria (CPP / APL; non-scientific issues)

**SIPCOM Consensus 1206-07:** SIPCOM forms a subcommittee (Kroon, Yeats, Becker, Stein, Yamamoto, Divins, Gatliff, Azuma, Larsen) to review current proposal guidelines and evaluation criteria. The task of the subcommittee is to explore pathways of incorporation of technical and other non-scientific issues, which may impact the feasibility of proposals, into the current proposal evaluation process within PEP. The subcommittee will electronically provide a report to SIPCOM by September 1, 2012.

**Wednesday**

**20 June 2012**

**08:30-12:00**

## 9. Workshops by October 2013

### 9.2 Discussion and approval of proposals

**SIPCOM Motion 1206-08:** SIPCom recommends support of the workshop entitled “Workshop Project on Serpentinization Process” at the requested level of \$10,000. Workshop proponents are encouraged to focus the outcomes of the workshop to include potential drilling objectives, expedition and site locations, and development of drilling proposal(s).

*Murray moved, Quinn seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Motion 1206-09:** SIPCom recommends allocating \$20,000 in support of a workshop

on "Advancing our Understanding of Cretaceous Ocean Dynamics by Scientific Ocean Drilling." The steering group should ensure broad international participation and develop proposals that target the unique aspects of the Cretaceous climate system that can be addressed by scientific ocean drilling.

*Teagle moved, Dunbar seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Motion 1206-10:** SIPCOM recommends allocating \$20,000 in support of a workshop on "Scientific drilling in the Chukchi Sea". SIPCOM notes that co-funding is being sought from USSSP as well as NSF-OPP. SIPCOM suggests that workshop organizers contact and involve the lead proponents of additional Arctic proposals with scientific objectives in the Chukchi Sea/Bering Sea regions.

*Dunbar moved, Murray seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Consensus 1206-11:** SIPCom encourages the PEP to move forward with the focused and detailed planning for scientific drilling in the Arctic using both mission-specific platforms and the JOIDES Resolution. This detailed planning will need to bring together all groups including scientists, industry, and ICDP to develop a feasible campaign to explore this critical and sensitive region of the Earth.

**SIPCOM Motion 1206-12:** SIPCom recommends support of a workshop on "Drilling an active hydrothermal system of a submarine intraoceanic arc volcano" at a level of \$15,000. SIPCOM encourages the proponents to clearly define scientific hypotheses that can be tested by drilling and develop strategies for site surveys and drilling, with the main outcome being the preparation of a drilling proposal.

*Frueh-Green moved, Dunbar seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0*

*opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Motion 1206-13:** SIPCom declines the funding request for the workshop entitled “Arctic Marine Gas Hydrates: Past, Present and Future Occurrence and Stability”. SIPCom urges the proponents to seek other ways to integrate their objectives with those of existing drilling proposals. The proponents are urged to contact proponents of existing proposals and consider participating in other upcoming Arctic drilling workshops.

*Quinn moved, Tauxe seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Motion 1206-14:** SIPCom recommends support of the workshop entitled “IODP Deep Biosphere Research....” at a level of \$20,000. The proponents are encouraged to maintain their focus on IODP related microbiological research, and continue to target specific IODP objectives. The workshop program should be better defined. SIPCom further noted that PEP has identified microbiological aspects of deep crust as being an important objective, and the proponents should seek input from PEP as they build their workshop agenda.

*Yamamoto moved, Murray seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Motion 1206-15:** SIPCOM recommends support of the IODP Workshop Proposal of “Records of geohazards and monsoonal changes in the northern Bay of Bengal - preparation of an IODP drilling proposal” at the requested level of \$8,000. The proposed drilling will address high resolution records of paleoclimate, paleoceanography and paleogeohazard (earthquakes and cyclones) as well as environmental perturbations by human activities from Asian mega-delta deposits. The proponents should consider which platform will be used for this project, JR or MSP.

*Iryu moved, Dunbar seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green,*

*Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**14. Review of any additional action items, motions, and consensus statements**

**SIPCOM Consensus 1206-16:** SIPCom expresses its gratitude to Dr. Jeff Schuffert and his colleagues, our local hosts for this meeting in Arlington /Washington DC. The hotel and meeting facilities provided an excellent venue for a productive meeting including an unexpected break out session in the open air due to a fire alarm. SIPCom members also enjoyed learning about the history of our meeting location.



**Science Implementation and Policy Committee  
2nd Meeting, 19-20 June 2012,  
Washington DC, USA  
Draft Meeting minutes (ver. 2)**

<b>Tuesday</b>	<b>19 June 2012</b>	<b>09:00-17:30</b>
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## **1. Introduction**

### **1.1. Call to order and opening remarks**

SIPCOM Chair Jan de Leeuw called the meeting to order at 9:00.

### **1.2. Introduction of participants**

All meeting participants introduced themselves.

### **1.3. Welcome and meeting logistics**

Local host Jeff Schuffert welcomed the meeting participants to Washington, and outlined the logistics for the meeting.

### **1.4. Rules of engagement (Robert's rules, COI policy, etc.)**

De Leeuw explained that SIPCOM meetings are conducted according to Robert's Rules of Order, and listed some of the salient points from this set of rules.

De Leeuw reviewed the conflict-of-interest procedures for the meeting. He stated that potential conflicts should be declared. SIPCOM members declared their conflicts.

Reporter	Conflict with:
Murray	Expedition 346 (Asian Monsoon)
Stein	2 workshop proposals (Chukchi / Deep Biosphere Research)
Teagle	P522(Superfast) / P805(Mohole) / P800(Indian Ridge Moho)
Frueh-Green	P758(Atlantis Massif Seafloor Processes)

### **1.5. Meeting agenda approval**

De Leeuw asked if there was any change to the agenda. Chris Yeats suggested adding "Approve last meeting minutes." De Leeuw agreed.

**SIPCOM Consensus 1206-01:** SIPCOM approves the agenda for its second meeting, 19-20 June, in Arlington, VA, USA.

## **1.6. Approve last meeting minutes**

De Leeuw asked if anyone would like to amend the last meeting minutes and no one raised concerns.

**SIPCOM Motion 1206-02:** SIPCom approves the minutes of the 19-20 January 2012 meeting held in Goa, India.

*Murray moved, Tauxe seconded, 15 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Stein, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 2 non-voting (Sharma, Yeats).*

## **2. Current SAS and Proposal Guidelines**

### **2.1 Discussion of adjustments to the SAS ToR**

De Leeuw explained that the current rules on how to evaluate different types of proposals were found out of date especially with respect to CPPs submitted by important new member countries. PEP requested SIPCOM to update the proposal guideline to fit the present needs and situation. But at the same time, SIPCOM needs to adjust the Terms of Reference because the changes in the proposal guideline would affect some contents in it. De Leeuw suggested discussing under agenda item 8 after listening to the PEP report in agenda item 5.

## **3. IODP-MI program plan**

### **3.1. SIPCOM discussion/approval of FY13 APP**

Kiyoshi Suyehiro provided a report on the status of FY13 APP.

[APP schedule]

<b>Event</b>	<b>Ideal timing</b>	<b>Actual timing</b>
Estimate of Exps	mid-11	mid-11
OTF/ SPC	August, 11	June-Aug,11
Guidance from LAs	February	May 16
Draft APP	March-May	May-July
SIPCOM/BoG Approval	June	Delay: Seek electronic approval
LAs approval	July-Sep	July-September

[Expedition days in FY11-13]

<b>Expedition days</b>	<b>FY11</b>	<b>FY12</b>	<b>FY13</b>
JR	221	229	210
Chikyu	73	145	146
MSP	0	0	50+

[SOC through IODP-MI]

- FY12 20.3M (5.8-MI, 4.2-USIO, 9.9-CDEX, 0.3-BCR)

- FY13 13.8M (3.7-MI, ~3-USIO, ~7-CDEX, 0.3-BCR)

[Summary of status]

- All 3 platforms in action in FY13

- JR will drill 4 expeditions
- Chikyu operations will be deep riser drilling mostly for NanTroSEIZE
- MSP will drill the Baltic Sea

- Visible impact on CMO integrative activities.

- IODP-MI will reduce more than 35%
- Data management developments complete in FY12
- Minimal outreach and engineering development activities
- Less workshops, meetings, travel, publications
- Commit FY12 funds to important FY13 activities such as AGU Town Hall

- Transition to next program within FY13

- Close-out phase for Tokyo Office and DC office

- Several months in FY14. Legal and audit /tax formalities.

-FY14 and onwards

- JR be ready to embark on new IODP expeditions in the western Pacific
- Chikyu will commit to penetrate the mega-spay fault to 5200m TD with the present PMT after FY13.
- Chikyu 10 year plan workshop
- MSP will prepare for Chicxulub and Atlantis Massif drilling in the new IODP

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Wataru Azuma asked who will chair the PMT for NanTroSEIZE after IODP-MI is dissolved. Suyehiro replied that Yoshi Kawamura (IODP-MI) will not chair anymore, but most of the current members will remain as the members of the PMT and they would work fine. Murray asked what entity would support the participation of PMT. Tom Janecek replied that would be the Chikyu FGB.

Damon Teagle asked if the Chikyu workshop had already been announced, and if the workshop would be international. Suyehiro replied that the workshop was not announced yet because it was on a very early stage and the steering committee was not yet set up. The workshop will be surely international assuming that half of the participants will be from outside of Japan. De Leeuw understood Teagle's concern, and commented that the announcement should have been done earlier, but he also showed his understanding that it had to be this late because the host tried to combine this workshop with the PEP meeting.

Rudy Stein commented that there should be a call for Chikyu proposals before the workshop because there are some groups who are seeking a chance on Chikyu and their proposals should be on the table at the workshop. Dick Kroon replied that Stein's comment was theoretically right, but pointed out that IODP already had enough proposals in the system to justify the workshop. Stein asked if the workshop is to discuss only the proposals already in the system. Suyehiro replied no, it's open to new proposals.

Kier Becker, as a chair of the budget subcommittee, stressed the importance of SIPCOM approval for IODP-MI Annual Program Plan for each FY, and suggested the following action item.

**SIPCOM Action Item 1206-03:** SIPCom will review the FY13 APP provided by IODP-MI in July to ensure that it effectively supports both the planned FY13 science operations and preparation for the post-2013 program (including FY14 operations, workshops for developing post-2013 proposals, transition support). The SIPCom budget subcommittee will provide a summary and recommendation to SIPCom soon after the APP is provided, and SIPCom will then forward its recommendation to the IODP-MI Board of Governors and IODP agencies in a timely manner.

Becker informed that the FY13 operation plan that Suyehiro showed was consistent the plan SPC had approved. The panel agreed on the action item suggested by Becker.

#### **4. IO Reports**

##### **4.1 CDEX**

Wataru Azuma provided the CDEX report.

[Expedition 343: J-Fast]

- Scientific objectives

- How and why the large EQ slip can occur in very front of the accretionary prism in relation to tsunamogenesis

- Strategy: (first scientific trail to tie between image and material sciences)

- 1) Install temperature sensors to measure thermal reduction process after coseismic heating in order to examine EQ energy budget issue and level of frictional strength on the fault.

- 2) Obtain LWD data to make clear in-situ physical properties and formation condition the M9 EQ fault propagated through

- 3) Provide samples of seismic zone for future experimental study as well as new sciences on coseismic chemical process/microbio response

[Multidisciplinary Science Team]

- 28 scientists from 10 countries Japan, US, UK, Canada, Germany, France, Italy, China, India, New Zealand

- Geologists, Geophysicists, Geochemists, Seismologists, Microbiologist
- Professors, Senior Researchers, Young Researchers, Students

[Technical Challenges]

- Water depth about 6900 meters
- Borehole about 850 meters below seafloor
- Reentry for installation of measurement tool

[New Milestones to be achieved]

- Greatest total depth below sea-level for research borehole  
(6889.5 meters water depth + 850.5 meters borehole= 7740 meters)
- Deepest research core below sea-level (7734 meters below sea-level)
- First time Japan Trench plate boundary sampled
- Deepest fault sampled

[Logging while Drilling (LWD) ]

- Measure physical properties while drilling
- Depth, width and physical properties of fault zone
- Depth for setting of the temperature monitoring string
- Depth for core samples
- Successfully reached target depth of 856.5 meters below sea floor
- Determine dip and azimuth of 'deformed' bedding
- Change in lithology
  - 820-835 m clay layer (hemipelagics)
  - 'chert and basalt' layer below 835 m
- 2 possible fault 'damaged' zones are well identified
  - 720 m below seafloor
  - 820 m below seafloor
- Stress direction from borehole breakouts
  - Maximum stress direction is about same as the plate direction

[Coring Results]

- 21 Cores from 648 to 844.5 meters below seafloor
- Sampled several small faults and other structures

- Sampled large fault zone at about 820 meters below seafloor
- Reached plate boundary between ocean and continental plate

[JFAST-17 Core]

- Depth 821.5 to 824 meters below seafloor
- 0.97 meter sample (38.8% recovery)
- Very deformed rocks => Fault zone 'melange'
- Likely Boundary between Oceanic and Continental Plates
- 2011 Tohoku earthquake fault?

[Observatory Installation]

- Wellhead and about 30 meters of casing installed.
- Return trip planned this summer to drill borehole and install temperature observatory
- Expedition 343T; 5 – 24 July 2012

May 2012 OTF "endorsed", FY2012 APP has been modified.

[Summary]

- Goal of JFAST to understand large fault slip that caused tsunami
  - big social relevance for issue on mitigating megaEQ/Tsunami damage
- IODP project mobilized quickly
  - First trial as 'rapid response fault drilling'
- Technically and logistically very difficult
  - New records set for scientific drilling
- Unable to install temperature observatory
  - Return trip planned for this summer
- Obtained about 50 meters of core
  - We think core reached plate boundary formation such as 'Melange'

[Upcoming IODP Expeditions]

- Exp 343T "JFAST-2"
  - 7 July – 22 July 2012 (16 days)
- Exp 337 "Deep Coalbed Biosphere off Shimokita"
  - 26 July – 26 September 2012 (63 days)
- Exp 338 "NanTroSEIZE Plate Boundary Deep Riser -2"
  - 4 October 2012 – 11 January 2013 (100 Days)

[Expedition 337: Deep Coalbed Biosphere off Shimokita ]

Co-chiefs; Fumio Inagaki & Kai-Uwe Hinrichs

- Understanding of 'Archea World in coalbed (nutrient rich) environment
- Riser drilling Deepest scientific drilling (2200 mbsf)
- Large diameter cores across the critical formations
- Formation fluid sampling by wireline tools
- Mud gas monitoring by newly installed lab
- First CPP project

[Expedition 338: NanTroSEIZE Plate Boundary Deep Riser -2]

Co-chiefs; Brandon Dugan, Kyuichi Kanagawa, Greg Moore, Michael Strasser,

- Deepen the Hole C0002F to 3600 mbsf (13-3/8" casing set point) from 20" casing set point of 856 mbsf (Exp. 326).
- Using Reaming-While-Drilling (RWD) technology with LWD/MWD.
- Spot coring within the inner wedge accretionary complex.
- Continuous cuttings and mud gas monitoring.

[Future Plan of NanTroSEIZE]

- Drill/log/sample through the mega-splay fault (approx. 5200 mbsf) with observatory installation are primary targets at the moment.
  - Current target; 3600 mbsf (2012) and 5200 mbsf (2013)
- Based on 3.11 Tohoku EQ, the scientific target might be re-considered.
  - 'Project Management Team' meeting
  - WS on Post 10 year Chikyu in winter
  - 'Strategy WS' will be scheduled in next year
  - Need to examine 'optimized operation plan'
- Chikyu GB will discuss how to direct this issue

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De Leeuw suggested making a consensus to congratulate the achievement of J-FAST. Becker suggested adding a warning not to delay the NanTroSEIZE project.

<b>SIPCOM Consensus 1206-04:</b> The 2011 Tohoku earthquake and tsunami caused great
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devastation to Japan and was a major tragedy of international importance. However, this major rupture, with unprecedented geophysical observations, also provided an ephemeral opportunity to sample, instrument, and monitor the active slip zone of a mega-earthquake.

SIPCom commends CDEX personnel and the scientific proponents for their rapid response through the timely mobilization of IODP Expedition 343 Japan Trench Fast Drilling Project (JFast) and their success in tackling the major technical challenges of drilling in a deep hole in ultra-deep waters. The community looks forward to the completion of the installation of the borehole instrumentation during the July JFAST-2 expedition.

SIPCom is also very encouraged that this unexpected but necessary campaign, will not have any detrimental impact on the other Chikyu operations, and notably that the NanTroSeize project will be followed through to completion as previously planned.

## 4.2 USIO

David Divins provided the USIO report.

[Mediterranean Outflow: 17 November 2011 - 17 January 2012]

Objective:

- Investigation of Mediterranean Outflow Water (MOW) through the Gibraltar gateway and its influence on global circulation and climate
- APL-763: recover Pleistocene marine reference section
- Core and log at 7 sites in Gulf of Cadiz and west Iberia Margin

Expedition Highlights:

- Confirmed a two-phase onset of Gibraltar gateway opening, in which the MOW onset is not noted until 4.1-4.4 Ma (dating being refined)
- Demonstrated that exactly the same climate signal is evident at several of the contourite drift sites, for which the sedimentation rate is 3-6 times as high

Operational Highlights:

- 7 Sites, 25 holes, 681 cores

- Total Penetration: 7854 m
- Total Recovered: 5446 m (86%)
- Logging: Triple Combo and FMS-sonic at most sites; VSPs at select locations

[Unscheduled Dry Dock: 17 January - 15 February 2012]

- American Bureau of Shipping (ABS) inspection and ultrasound survey conducted during Ponta Delgada port call indicated JOIDES Resolution's sea chests and frames were corroded beyond 20% of the acceptable thickness
- Frames were repaired during Expedition 339
- Sea chests repaired in Lisbon, Portugal. More extensive work than estimated; required 3 weeks
- Repair costs paid by Ocean Drilling Limited (ODL)

[Atlantis Massif APL: 15 February - 3 March 2012]

- Seismic sections show considerable reflectivity but most of 1415 m gabbroic section heterogeneous and not reflective
- Instrument and weather problems preclude completion of logging program during Exps. 304/205

Objective:

- Log Hole U1309D focusing on temperature, acoustic velocity measurements, and zero offset VSP (779 APL)
- New sonic logs confirm highly altered olivine-rich intervals have sufficient seismic and density contrasts with surrounding rock to reflect MCS energy
- Borehole fluid temperature anomalies related to two narrow subseafloor faults indicates flow still active

[Lesser Antilles: 3 March - 17 April 2012]

Objective:

- To better understand the constructive and destructive processes related to volcanism along island arcs
- Core and log at 9 sites off Montserrat, Guadeloupe, Dominica, and Martinique

Expedition Highlights:

- Drilled 22 holes at 9 Sites, 2384 m of core recovered (434 cores with 68% overall recovery)
- Successfully logged 510 m of formation at 4 sites, plus a VSP
- 34 measurements of downhole temperature at 7 sites
- Several hundreds of tephra layers were recovered, which will allow magmatic evolution of Montserrat over the last 4.8 Ma interval and Martinique over at least 350 Ka to be modeled
- Recovery of turbiditic and especially the deformed sediment sequences will require refinement of existing models of debris avalanche emplacement
- Based on the downhole temperature data, a new heat-flow model for the area has been developed with draft manuscript already completed
- Marine sediments recovered will allow development of a palaeoceanographic model for the back-arc Grenada Basin.

[FY12-13 JR Operations Schedule]

FY13 APP developed for 4 expedition schedule:

- Developed cost savings estimates for dropping to 3 expeditions
- Increased risk in fuel costs, back off & severing
- Publications support reduced (Duplication & shipping DVDs, Delays in publication schedule possible)
- Reduced support for Other Integrated Activities (Meetings, SEDIS support, SDRM)

Pending issues:

- End port for S. Alaska and start port for Asian Monsoon tentative

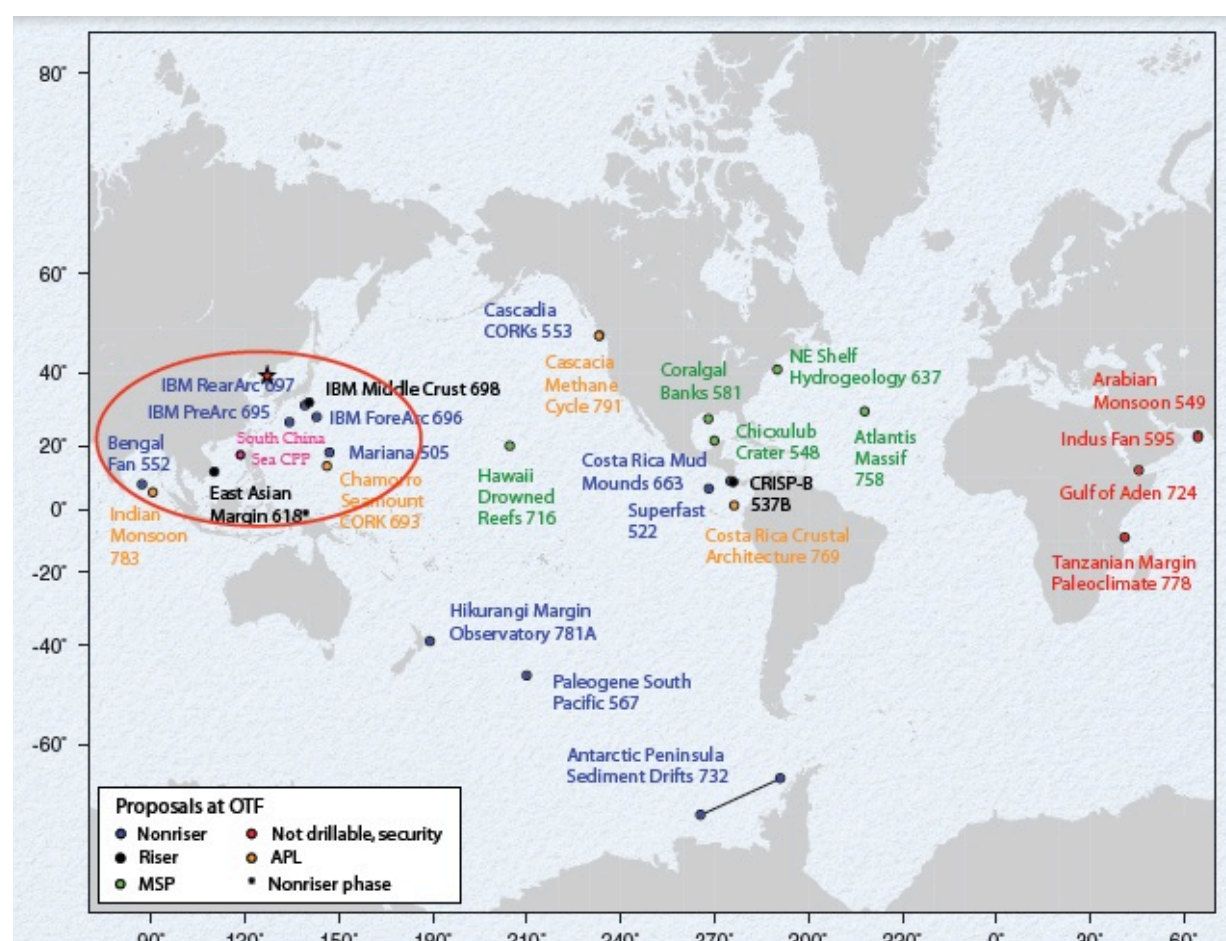
SCIMPI option: prior to S. Alaska

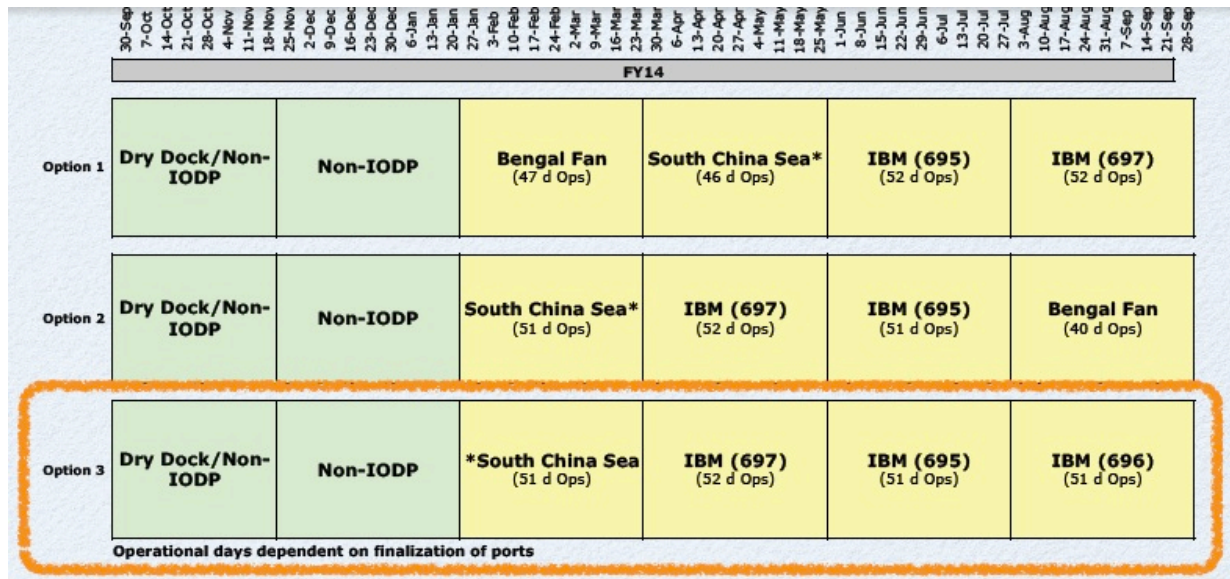
- S. Alaska includes APL (786) already assigned
- SCIMPI proponents strongly favor Cascadia location
- 4 extra days operations (2 days transit + 2 days on site) + in and out port, transport, and personnel costs
- NEPTUNE Canada commitment for post-installation access and maintenance

EXPEDITION	EXP #	START PORT	DATES
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Non-IODP		Curaçao	17 April - 2 June 12
Newfoundland Sediment Drifts	342	Bermuda	2 June - 1 Aug 12
Non-IODP		St. Johns	1 Aug - 23 Oct 12
CRISP-2	344	Balboa	23 Oct - 11 Dec 12
Hess Deep	345	Puntarenas	11 Dec - 12 Feb 13
Non-IODP		Balboa	12 Feb - 25 May 13
SCIMPI	341S	Victoria	25 - 29 May 13
S.Alaska	341	Victoria	29 May - 29 July 13
Transit	346T	Victoria	29 July - 20 Aug 13
Asian Monsoon	346	Hakodate	20 Aug - 28 Sep 13

[FY14 schedule options]





- JR required to perform dry dock by January 2014
- Option 1: 197 d operations, IBM 697 in typhoon season
- Option 2: 194 d operations, Bengal Fan starts end of monsoon season
- Option 3: 205 d operations, IBM 696 in typhoon season

If SCS not possible, substitute with proposal not on option

#### [E&O Activities]

Lisbon Port Call, January 2012:

- ~800 tour visitors
- VIPs incl. Portuguese Sec. of State for Science, members of Parliament, and a former President
- Press briefing attended by ~30 regional media, including TV and radio

Journalist on board Hess Deep:

- Jason Fagone, freelance, based in Philadelphia, PA
- On assignment for NY Times Magazine
- Long, feature-length piece
- Also gathering material for book project

Core Discoveries Newsletter:

- Spring 2012 issue published in May. Available at [http://www.oceanleadership.org/wp-content/uploads/2011/10/CoreDiscoveries\\_Spring2012\\_Final\\_WebRes.pdf](http://www.oceanleadership.org/wp-content/uploads/2011/10/CoreDiscoveries_Spring2012_Final_WebRes.pdf)
- Coverage includes Newfoundland preview, logging tools "How it Works," and update on Publications

#### Onboard Educators:

- Altantis Massif: Virginia Jones, a School of Rock 2005 alum from Idaho Falls, Idaho, produced two dozen live video interactions with urban schools in the United States.
- Lesser Antillies: Teresa Greely, education program director at the University of South Florida (USF), completed 35 video broadcasts to a wide range of international groups, including those in France, Guadeloupe, the U.K., Canada, and numerous U.S. states. Greely garnered excellent television converge for teaching USF oceanography courses live from the JOIDES Resolution.

#### Ocean Sciences Meeting, Salt Lake City, Utah, February 20-24:

- Deep Earth Academy staff chaired a thematic session titled "Live from the Ocean: Engaging Students and the Public in Active Research Projects at Sea", the session included eight oral presentations and ten posters.

#### School of Rock 2012 - Ship to Shore Science the JOIDES Resolution as a Platform for Education:

Ten informal educators, DEA staff, and three scientist instructors sailed in a transit from Curaçao to Bermuda, May 23 – June 2, 2012. Participants developed various project plans, which range from developing an E-book, to setting up regional hubs.

#### School of Rock 2012 - Introduction to Curriculum on Climate History for Minority Serving Institution Faculty:

Gulf Coast Repository June 4-June 7, 2012. Fourteen undergraduate faculty joined science instructors St. John, and Krissek, DEA staff, American Meteorological Society and GCR staff for an intensive 4-day workshop focused on the newly published Building Core Knowledge curriculum, as well as discussions on how to reach diverse audiences and plans for future proposals.

[Non-IODP Activities]

- ~ Two Months Non-IODP Work

Contract with oil and gas consortium to conduct shallow, stratigraphic coring in the North Atlantic

- Operations to occur in August–October tie-up period slot on IODP schedule
- Costs savings to program will be used to support JR operations in FY13

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De Leeuw asked who selected the onboard scientist for non-IODP activities. Divins replied that this was the USIO science project manager. He reached out to the targeted individuals who USIO knew could deliver what and when it needed.

Gretchen Frueh-Green asked why the port call after Exp. 342 (Newfoundland Sediment Drifts) was cancelled. Divins replied that was a security issue.

Azuma asked if USIO has any other non-IODP contract in the future. Divins replied nothing solid so far. Azuma asked how USIO finds the needs in industry. Divins replied that Siem Offshore, the new owner of JR, seemed to be much engaged in figuring out how to market the ship than the other owners were. But USIO has not been involved in that marketing.

Rick Murray asked how far ahead USIO purchases fuel, and how immediate the price change impact is on them. Divins replied that they purchase fuel at each port call and try to find the most cost effective way.

#### **4.3 ESO**

Robert Gatliff provided the ESO report.

[Proposal 672 / IODP Expedition 347: Baltic Sea Paleoenvironment]

- Top ranked MSP proposal in SAS
- Site survey and safety panels
- Carol Cotterill Expedition Project Manager
- Call for EoI for platform completed

- Call for scientists closed after EGU
- Call for tenders closes 29th June
- Planned for Summer 2013
- ESO Project Team formed
- Planning meetings for ESO in Leicester and Bremen
- Planning meetings with co-chiefs (Thomas Andrén and Bo Barker Jørgensen)
- Detailed Phase after preferred contractor recognised
- Baltic Palaeoenvironments Workshop was held in Gdansk, May 2012

[Coralgal Banks]

- One-day coring test on the Coralgal Banks in the northwest Gulf of Mexico.
- Lead proponent Andre Droxler
- Fugro offered 24 hours geotechnical ship time to test coring equipment to recover relict coralgal reef material.
- Technical test only, with no Science Party or minimum measurements.
- ESO is currently negotiating the contract with Fugro
- Droxler has obtained a permit for the work, granted by the Bureau of Ocean Energy Management, Regulation and Enforcement.

[Proposal 548, Chicxulub Impact Crater]

- ESO has been scoping Proposal 548 (Chicxulub) for potential implementation in FY14
- TV interest in this project
- ESO has solicited potential companies/institutes to do hazard site survey
- ESO will apply for permits from the Mexican authorities after tender
- The aim is to conduct the hazard survey in 2013, ready for the drilling phase in 2014
- Decision after Baltic tender complete
- PMT meeting, Edinburgh, Oct 2010.
- Joanna Morgan and Sean Gulick (Co-Chief Scientists)
- Sophie Green, Expedition Project Manager
- No concerns with technical or scientific requirements.

[758 Atlantis Massif Seafloor Processes]

- Possible Implementation in FY15.

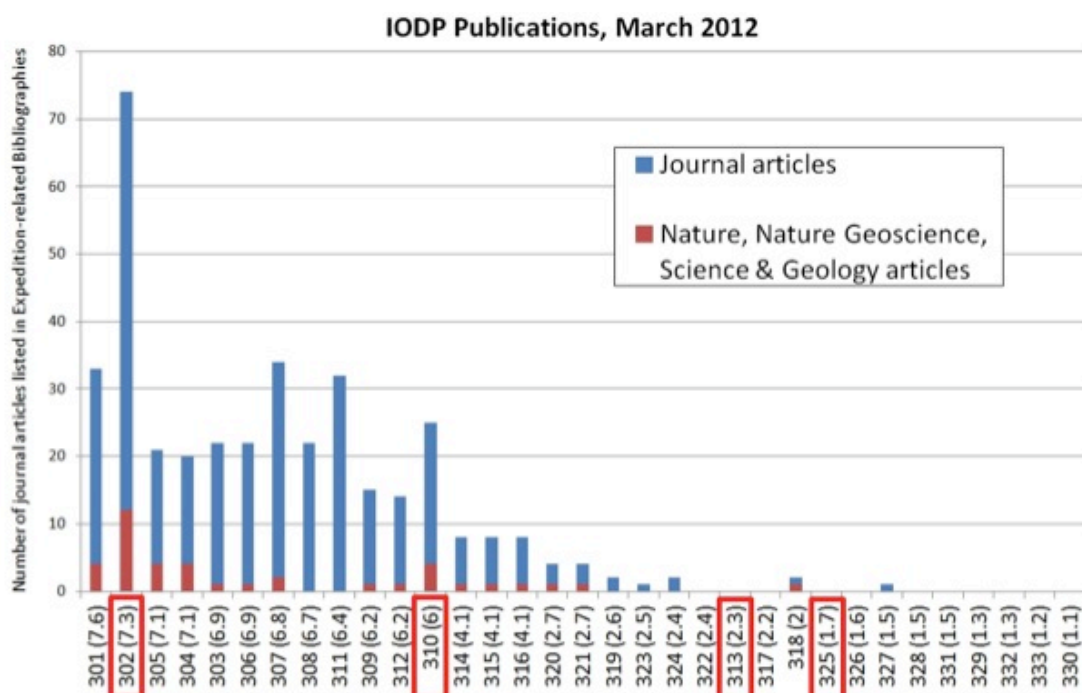


- RD2 (BGS) and MeBo (MARUM) seabed drills
- Research vessel
- New logging and sampling tool development
- Fluid sampling equipment development required
- Proponents: Gretchen Früh-Green & Chris McLeod
- Dayton Dove, Expedition Project Manager

#### [Completed Missions]

- The Expedition 313 (New Jersey) Science Party has received approval from Geosphere to proceed with submitting Expedition 313-related papers for a special electronic publication under the theme "Results of IODP Expedition 313: The history and impact of sea-level change offshore New Jersey". A raft of 313-related papers are expected to be submitted before August 2012.
- The Expedition 325 (Great Barrier Reef) 2nd Post-expedition meeting will take place from July 3–7, 2012, at Heron Island, Queensland, Australia. A special session has been co-organised with scientists associated with Expedition 310 (Tahiti) for the 12th International Coral Reef Symposium (9–13 July, Cairns, Australia).

#### [Publications per Expedition]



[IODP Seminar: University of Haifa, Israel]

Host: Nicolas Waldmann

Head of Department: Zvi Ben-Avraham

Participants:

- Dominique Weiss: Plume trails: Hawaii
- Kai-Uwe Hinrichs: Deep Biosphere
- Carlotta Escutia Dotti: Wilkes Land
- Gilbert Camoin: The New IODP Programme
- Robert Gatliff: Participation in ECORD IODP Expeditions

[Proposals for New program]

Proposal	Short title	Comments
548	Chicxulub K-T Impact Crater	Impact of meteorites
716	Hawaiian Drowned Reefs	Climate change in last 2 million years
758	Atlantis Massif Seafloor Processes	Water circulation; microbiology
581	Late Pleistocene Coralgall Banks	Impact of sea level rise and global warming
637	New England Shelf Hydrogeology	Fluid flow: fresh water beneath the oceans
796	Ligurian Landslide	Geohazards: Develop a revised full proposal
797 & 806	Beauforts Sea warming and methane release	Proponents asked to develop full MDP proposal(s) with integration
XXX	Additional Arctic Proposals	Acex 2 Expected March 2014
YYY	FP7 and Horizon 2020	Combined proposals with EU

[IODP Arctic Proposals]

Gatliff stressed the importance of the drilling in Arctic where ice cover is rapidly reducing. He pointed out that the areas of the proposed drilling sites overlap with the areas industries are interested in.

[Workshops on Arctic Ocean Drilling]

- Arctic Ocean Drilling and past activities (1986 – ACEX)
- Arctic Drilling Workshop Bremerhaven November 2008
- Arctic Drilling Workshop Copenhagen November 2011  
(The site survey challenge)
- Arctic Drilling Workshop San Francisco December 2011
- Arctic Drilling Workshop Kananaskis February 2012  
(Coordinated drilling in the Beaufort Sea)
- Arctic Drilling Workshop Copenhagen January 2013 (proposed)
- Arctic Drilling Workshop Columbus/Ohio March 2013 (proposed)

[ A new dimension to ECORD: A Distributed European Sub-seafloor Infrastructure]

- Phase 1: Establish the ECORD Technology & Engineering Panel
- Initial focus on Baltic and Atlantis Massif
- Attract additional funds to give some flexibility for infrastructure and technological developments, for example:
  - Development of sea floor coring technology  
(e.g. Sea floor drills; piston cores; new technology)
  - Development of subsea observatory technology (Fluid samples, other sensors)
- Working together

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Dick Kroon asked about the timing ESO considers when looking into a proposal for funding. Is it when the proposal is revised into a full proposal, or when PEP rates it as “excellent”? Gatliff replied that ESO needs at least to hear PEP vouch for the science. Kroon asked if ESO would pick a pre-proposal with good science. Gatliff replied that it’s possible especially if it already has support from other programs like ICDP. Allan commented that if the pre-proposal is very powerful in science, IOs can get involved at very early stage. However, in the future program, the proponents would need to take a more active role to bring in outside funds.

De Leeuw commented that technical difficulties in proposals should be detected at a very early stage, which was discussed at the last OTF meeting. This issue should be generalized and stipulated in the revised guidelines.

## 5. PEP report

### 5.1 2012 May meeting report

Dick Kroon provided a report on the 2nd PEP meeting 14-15 May 2012, Edinburgh, UK.

[Role of Proposal Evaluation Panel in the current SAS]

- PEP nurtures and evaluates all proposals in the context of the themes of the new science plan
- PEP selects the best proposals and forwards them to OTF and SIPCOM
- PEP participates in OTF (chairs and sub-chairs)
- PEP stimulates proposal pressure in certain scientific areas in case needed

[PEP review criteria]

The general evaluation criteria for IODP proposals are (as per the PEP ToR):

- Are the scientific questions/hypotheses being addressed exciting and of sufficiently wide interest to justify the requested resources?
- Will the proposal significantly advance one or more goals of the Science Plan?
- Would the proposal engage new communities or other science programs into the drilling program?
- To what degree does the integrated experimental design of site characterization, drilling, sampling, measurements, and downhole experiments constitute a compelling and feasible scientific proposal?

[Proposal submissions]

The total number of proposals that were submitted for 2012 April deadline: 18 (3 revised and 15 new proposals)

[Proposals reviewed at PEP May meeting and watchdogs]

Proposal #	Short title	WD1	WD2	WD3
696-Full4	Izu-Bonin-Mariana Deep Forearc Crust	Neal	Takazawa	Morishita
735-CPP2	South China Sea Tectonic Evolution	Smirnov	Koepke	Godard
778-Full2	Tanzania Margin Paleoclimate Transect	Zachos	Nishi	Singhvi

781A-Full	Hikurangi: observatory	Moulin	John	Yamada
791-APL2	Continental Margin Methane Cycling	Biddle	Suzuki	Takano
792-Pre	Shiva Impact Structure	Tian	Obana	Hornbach
793-CPP	Arabian Sea Monsoon	Shevenell	Tian	Robinson
794-Pre	Arctic slope stability	Yamada	Sultan	McHugh
795-Full	Indian Monsoon Rainfall	Nishi	Dickens	Chase
796-Full	Ligurian Landslide	Hornbach	Smirnov	John
797-Pre	Alaska Beaufort Margin	Dickens	Murayama	Robinson
798-MDP	Gulf of Lion Drilling	Smith	Zachos	Biddle
799-full	Western Pacific Warm Pool	Hodell	Lee	Yokoyama
800-full	Indian ridge Moho	Takazawa	Neal	Pecher
801-Pre	Brazil Argentina Margin Microbiology	Suzuki	Smith	Heuer
802-Pre	Marmara tectonics	John	Michibayashi	Sultan
803-pre	Greenland IceSheet	Yokoyama	Shevenell	Tian
804-Pre	Antarctic Cryosphere Evolution	Lee	Nishi	Chase
805-MDP	MoHole to the Mantle	Neal	Pecher	Smirnov
806-Pre	Beaufort Gas Hydrate	Takano	Biddle	Heuer

	: Submission of revised version
	: Came back from External review
	: New proposals

## [Review result]

Proposal #	Short title	PEP's recommendation
696-Full4	Izu-Bonin-Mariana Deep Forearc Crust	Forward to OTF
735-CPP	South China Sea Tectonic Evolution	Send to external review
778-Full2	Tanzania Margin Paleoclimate Transect	Forward to OTF
781A-Full	Hikurangi: observatory	Forward to OTF
791-APL2	Continental Margin Methane Cycling	Forward to OTF
792-Pre	Shiva Impact Structure	Deactivate
793-CPP	Arabian Sea Monsoon	Submit revised CPP

794-Pre	Arctic slope stability	Deactivate
795-Full	Indian Monsoon Rainfall	Submit revised full
796-Full	Ligurian Landslide	Submit revised full
797-Pre	Alaska Beaufort Margin	Develop MDP with 806 or Revise full
798-MDP	Gulf of Lion Drilling	Deactivate
799-full	Western Pacific Warm Pool	Submit revised full
800-full	Indian ridge Moho	Submit MDP
801-Pre	Brazil Argentina Margin Microbiology	Submit full
802-Pre	Marmara tectonics	Deactivate
803-pre	Greenland IceSheet	Deactivate
804-Pre	Antarctic Cryosphere Evolution	Deactivate
805-MDP	MoHole to the Mantle	Submit revised MDP
806-Pre	Beaufort Gas Hydrate	Develop MDP with 797 or Revise full

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Murray asked how many days P805 would need to reach the mantle. Teagle answered it could be about 400 days according his experience in the SuperFast expedition.

Teagle pointed out that P800 is aiming at rather shallow drilling depth. Kroon replied that PEP recommended using JR first for drilling the lower crust. Such logistics and feasibility decisions and handling Chikyu proposals are the biggest issues PEP found difficult to deal with. De Leeuw commented that future Chikyu proposals would hardly have a chance to be implemented in the next 10 years considering the drilling time in the Chikyu proposals already in the system. SIPCOM needs to think if a call for Chikyu proposals will be really needed in the future. Stein commented that the information on how many years ahead are reserved and the relation between the timing of proposal submission and the timing of possible implementation should be announced to the community. It would help scientists to plan their proposal development. Kroon agreed.

Hasegawa asked why PEP needs external advise for 735-CPP (South China Sea) if PEP already decided to send it to OTF. Kroon replied that PEP needed the external advise for nurturing the CPP further and fast. Terry Quinn agreed with Kroon, and added that, in a general sense, a fast track for CPPs is needed to keep the ship track efficient. Hasegawa asked if SIPCOM or

PEP should consider the disputed area issues of South China Sea. Pinxian Wang commented that ODP drilled in the same area and it succeeded after getting agreements from the neighboring countries. The same will happen again.

Teagle pointed out that the short backlog strategy (one chance of revision for full proposals, no chance for pre-proposals) makes it hard to track the history of the proposals. De Leeuw commented that the awareness of only one chance is important for proponents to develop better proposals. Hans Christian Larsen commented that deactivation might be a too strong message to the proponents and it ends the history of the proposal. He stressed that keeping a corporate memory of the proposals is important. Becker informed that the primary motivation for that change came from feedback from proponents who were tired of having to do multiple revisions and then being reviewed by SSEP who had changed their membership. Stein commented that adding a box in the cover sheet to indicate the deactivated old proposal number would be helpful as SPC suggested.

Ishiwatari asked how MDPs work if their sub proposals are independently forwarded to OTF, like P781A. Kroon replied that PEP found P781A an excellent proposal and independently ready to go. It cannot spoil the merit of MDP. Allan commented that it's unclear how P781A gets funded for the proposed observatory. NSF has not considered this issue yet. These funding issues should be considered as a part of the scientific strategy. Kroon agreed, and stressed PEP needs a SIPCOM discussion about the review process for funding and feasibility of proposals.

Murray asked if PEP does a scientific risk assessment, e.g. how big is the scientific payback for each stage of the MDP. Kroon replied that PEP does it to each stand-alone proposal, but if it comes to feasibility and technology, it's difficult for PEP to see the risk. Teagle commented that PEP is not qualified in technology, especially for drilling to mantle.

Rodey Batiza commented that PEP cannot fully look at the implementation and feasibility. Governing Facility Boards have to make a judgment according to resources and science when the proposal is doable. Kroon agreed and suggested making a pre-proposal stage compulsory for feasibility review by all panels. De Leeuw added that, by doing so, PEP has technical and financial logistic information at their hands at a very early stage, it would help PEP to judge proposals.

## 5.2 Proposals status (regions & themes)

At the previous SIPCOM meeting, SIPCOM asked PEP to analyze the active proposals in the system.

**SIPCOM Action Item 1201-17:** SIPCOM asks PEP to summarize the scientific and regional distribution of pre-proposals, proposals, CPPs, and APLs at PEP and OTF, to enable SIPCOM at their June 2012 meeting to evaluate future coverage of the post-2013 IODP Science Plan.

After that SIPCOM meeting, Kroon emailed all proponents asking what challenges fit their proposal the most. He and Yamamoto (IODP-MI) compiled their responses. When proponents didn't respond to the request, Kroon chose the appropriate challenges for them. The following statistics are calculated based on those data.

	Hit	% (Total/OTF)
CO	84	40.1 / 38.1
Challenge 1	35	16.7
Challenge 2	23	11
Challenge 3	16	7.6
Challenge 4	10	4.8
BF	46	21.9 / 22.9
Challenge 5	17	8.1
Challenge 6	14	6.7
Challenge 7	15	7.1
EC	35	16.7 / 16.2
Challenge 8	6	2.9
Challenge 9	14	6.7
Challenge 10	4	1.9
Challenge 11	11	5.2
EM	45	21.4 / 22.9



Challenge 12	22	10.5
Challenge 13	7	3.3
Challenge 14	16	7.6

CO -- Climate and Ocean Change: Reading the Past, Informing the Future

BF -- Biosphere Frontiers: Deep Life, Biodiversity, and Environmental Forcing of Ecosystems

EC -- Earth Connections: Deep Processes and Their Impact on Earth's Surface Environment

EM -- Earth in Motion: Processes and Hazards on Human Time Scales

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Kroon commented that the alleged contributions to the challenges would be 50% right, because proponents tried to make them look more important to the program.

Quinn thanked Kroon for responding to the SIPCOM action item.

Chris Yeats commented that this statistics could be misleading because there are strong links between some challenges like "Earth Connections" and "Earth in Motion", while the same doesn't apply to other challenges. Kroon replied that it's not misleading but it's just how it stands. Quinn commented that there was value in these statistics, although SIPCOM possibly should look at other ways as well.

Becker asked how many proposals Kroon saw that didn't fit any of the challenges. Kroon replied that it's hard to say because some proponents claim something new that they didn't address in their proposals.

Murray commented that the statistics show a good balance between the themes. This would be helpful if we understand the constraints and limitations of interpretation. De Leeuw suggested discussing a better way to map proposals at the next meeting.

**SIPCOM Consensus 1206-05:** SIPCOM thanks Dick Kroon and Michiko Yamamoto for providing a quantitative view of how the proposals currently in the pipeline at PEP or OTF address and/or relate to the specific scientific challenges for ocean drilling as articulated in the Science Plan.

## **6. New Program and Long Range Planning**

### **6.1 Agency comments on the new SAS and its application in IODP-2**

Tom Janecek provided updated information on the new IODP framework.

#### **[Elements of New Framework]**

- Three Platforms
  - Independently funded operations
- Science Advisory Structure
  - Proposal evaluation
- Support Office
  - Proposal processing and SAS support
- IODP Forum
  - International body for monitoring/advising Platform Providers

#### **[Platform Provider Management]**

- Independent funding for each Platform and associated facilities
- Yearly subscription or project-by-project participation
- Platforms overseen by Facility Governing Boards
  - Includes Scientists, Funding agencies, Operator
  - Yearly Scheduling
  - Long-term planning
- Core Archives
  - ECORD - Bremen Repository
  - US - Gulf Coast Repository and JR cores at Kochi
  - Japan - Chikyu cores
- Platform Providers --- Publications, Eng Dev, E&O

#### **[Science Advisory Structure]**

- Proposal Evaluation Panel (PEP) and essential service panels
  - Site Characterization Panel
  - Environmental Assessment Protection and Safety Panel
- Available for use by any Platform Provider

- Internationally Staffed
  - Membership quotas TBD
  - Members selected by Program Member Offices
- Proposals from PEP forwarded to Facility Governing Board(s)
- SIPCOM disappears after FY2013
  - SIPCOM duties move to IODP Forum and Facility Boards

[Support Office]

- Small office
  - ~ 3-4 people
- Funded by NSF and JR partner contributions
- Primary Functions:
  - Support of Science Advisory Structure
    - Proposal handling (drilling and workshop proposals)
    - SAS Meeting logistics
    - Publication of “Scientific Drilling”
    - Maintain IODP Website
- Solicitation out late summer 2012
  - 5-Year Cooperative Agreement

[IODP Forum]

- Venue for all IODP entities to meet yearly
- Two primary functions
  - Monitor science plan delivery
  - Provide advice on Platform Provider activity
- Participants
  - Active community scientists
  - Funding agencies
  - Operators
  - Program Member Office representatives
- Chaired by well-recognized scientist
  - Support of chair provided by home country
- Terms of Reference being written by SIPCOM

[What's not going to change]

- The Science Plan is the guiding scientific document for the new IODP
- Proposals can be submitted for any platform
- Internationally staffed Science Advisory Structure
- Scientific community involved in scheduling and long-term planning for all platforms
- Scientists will be able to sail on any platform
- Program member offices still nominate scientists for staffing of platforms and SAS

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Janecek informed that STP will be subsumed by the operators. Stein commented that STP is a very important panel and should be in SAS, and asked for what reason NSF excluded STP from SAS. Janecek replied that the basic idea was to establish a more facility based program. Koppers asked if the way to nominate STP members remains the same in the future. Janecek replied that the existing technology panel in USIO would probably continue as the STP for USIO. Divins commented that USIO had not really discussed about STP yet, but planned to involve scientific community. Stein asked if there will be three STPs in the future. Janecek replied yes to the STP under USIO, but he was not sure how Europe or Japan will conduct or even if they will have them. Stein asked how the cross-platform quality control will be taken over. Janecek doubted that there had been any quality control in terms of cross-platform. Gatliff stressed the importance of standard measurements across different platforms, and he was not sure that three separate STPs would be efficient for that. Divins commented that USIO's technical panel had worked fine. Allan commented that keeping the standard could be done amongst the operators. Azuma agreed and suggested having IO meetings to get all IOs together to discuss those issues. Janecek informed that IO meetings used to be held regularly and it worked well.

Dunbar asked how the new program could have a significant scientific element to decision making at the facility governing boards, while the forum has no real authority. Janecek replied that US FGB has probably seven scientists, four of those scientists will be the subchairs of PEP and one of them would be the actual chair of the facility board. An operational task force develops the platform schedules and then brings them forward to the full board for final approval. Gilbert Camoin commented that the ECORD FGB will have five selected scientists and invited PEP members to get enough feedback about the proposals. They make the priorities on the proposals. Shingo Shibata commented that Chikyu FGB will have a group of international leading scientists and the chair will be chosen from them. The

FGB will be subsumed by JAMSTEC, and MEXT will be an observer. De Leeuw commented that having PEP members in FGBs is important to implement good science. Anthony Koppers commented that if PEP members are needed in the three FGBs, they will be very busy.

De Leeuw commented that the program should publish a call for proposals regularly as especially the JR needs enough proposal pressure. Becker asked if there will be a separate call from each FGB. Janecek replied possibly yes. Murray asked if the calls will be made from the support office. Janecek replied yes. Yeats asked about the frequency of the calls, and commented that PEP should meet more than twice a year to assess the regions for the calls. Janecek replied that there is no need for such frequent assessments because Chikyu would need a call every 3-5 years. Murray commented that the call for proposals should be discussed at the Forum level if it needs oversight coordination between FGBs.

De Leeuw suggested publishing a call for specific proposals. Lisa Tauxe commented that there would be no need for such a tailor-made call as long as there is some flexibility in the system. As the J-FAST proved, urgent needs for certain proposals could be solved with the current system. The system should be flexible enough to welcome unanticipated drilling proposals. Janecek commented that the US needs calls for regional proposals to keep the ship track efficient. Murray commented that the FGBs would need to be involved in any call for proposals no matter who actually writes the call.

Anthony Koppers asked what the balance between the scientists and the other members in FBG will be. Janecek replied that that will be an OTF-like balance between scientists, operators and funding agencies.

Jeff Schuffert commented that it would be difficult in balancing institutions, levels of experience, expertise, gender, etc. with three separate STPs and FGBs. Janecek agreed and commented that it would be the PMO's task to think how to keep that balance.

Koppers was concerned how standardization would be maintained between the three FGBs. Janecek replied that the three individual facilities have agreed to try to maintain standards, but it cannot be guaranteed because they operate under different physical restraints and different management constraints.

## 6.2 IODP Forum ToR

The SIPCOM subcommittee for the Forum's Terms of Reference was formed at the January SIPCOM meeting as the following SIPCOM consensus shows.

**SIPCOM Action Item 1201-07:** SIPCOM, being asked by IWG+ to draft the Terms of Reference for the IODP Forum, forms a subcommittee consisting of Lisa Tauxe, Chris Yeats, Hiroyuki Yamamoto, Rick Murray, Ruediger Stein and Zhifei Liu chaired by Terry Quinn to draft the Terms of Reference for the IODP Forum and to present this draft at the next SIPCOM meeting in June 2012 for discussion and approval.

The first draft of ToR (see Appendix A) was distributed to the SIPCOM members before the meeting. After Quinn summarized the draft, discussion was open to the floor.

### -- Paragraph "Decisions"

Becker asked if it means only one member's vote can block the decision. Quinn and Yeats replied that consensus cannot be blocked by a single person. Yeats explained that if 11 people are in favor and 1 person opposes, that motion is forwarded not as a decision, because the Forum doesn't have executive power.

Dunbar commented that it's odd to have a "Decisions" paragraph to say how decisions were not made, and this oddness originated from the assumption that the Forum's main task is only to "monitor". He suggested "foster" instead of "monitor", to make the Forum's activities sound more proactive.

### -- Workshops

De Leeuw commented that they need a decision at their workshop evaluation. Quinn agreed. Frueh-Green commented that review of workshop proposals would be needed more than once a year, and the policy of workshop handling should be clarified in the document. De Leeuw suggested reviewing workshops through email to increase the number of times of review. Tauxe recommended Adobe Connect as a communication tool for it.

Koppers asked how workshop reviews by the Forum would be justified when the Forum has no budget for workshops. Janecek replied that the Forum just recommends, and cannot say whether it's going to be funded. De Leeuw asked to whom the Forum sends their

recommendation. Quinn replied that it's to FGBs and the support office.

-- Paragraph "Mandate"

Murray suggested adding publication aspect to "Mandate", because internationality and commonality of publication is important for the IODP community and it could be monitored well by the overarching Forum.

-- Paragraph "Membership"

Janecek commented that the 3 year term of membership would not fit all representatives because, for example, representatives of NSF can serve 10 years. Quinn agreed that it does not apply to representatives from the funding agencies.

Teagle asked about the balance between independent scientists, the funding agencies, and the operators. Quinn replied he assumed one-third scientist and two-thirds others, but the subcommittee had not had a full discussion on that. Hasegawa commented that it's important to have scientific members as voting members.

Becker asked what type of contribution defines as the "contributor". Quinn replied all countries and consortia providing funds for the platform operations. Yeats suggested a similar manner as in IWG+, one vote for one representative, regardless the size of financial contribution.

Shibata commented that IWG+ recommended an executive committee established within the Forum, and asked why it was removed. Quinn replied that the subcommittee discussed this aspect and decided not to have it. Yeats commented that there is no sense with the executive committee because the Forum has no authority. De Leeuw commented that the SIPCOM discussion in Goa did not lead to any conclusion on this, and SIPCOM left it to the subcommittee to decide. And he agreed that there is no need for an executive committee because the original idea of the executive committee was a small group to work between their regular meetings when needed, but the Forum itself can define a sub-committee to do that. Quinn and Janecek agreed.

--- Paragraph "Chair"

Larsen asked what the actual duties of the chair are when the Forum has no budget and no executive power and no executive committee. Quinn replied that he/she will go to various

meetings trying to spread the word of Ocean Drilling and its value to various societies. Koppers commented that an executive committee would be needed to support such a big task. Murray commented that the Forum chair's tasks are very important to keep the program international and integrated along one science plan. Yeats agreed.

De Leeuw asked if the Forum chair could be a member of the support office for his better working environment. Janecek replied no because the funding for the support office comes from a particular country's funding agency.

### 6.3 Discussion of proposal status and possible needs for actions

De Leeuw skipped this agenda item and suggested discussing under agenda item 8. All agreed.

## 7. FY14 Drilling Schedule

## 7.1 OTF report

Kawamura reported the expedition schedules of FY12, FY13 and FY14.

[FY12 schedule]

FY2012											
<div> <div>EXP.336 Mid-Atlantic Mbio</div> <div>EXP.339 Med. Outflow (includes APL 763)</div> <div>Dry Dock</div> <div>EXP.340 Lesser Antilles (including Exp.340T)</div> <div>Maintenance Period (Non-IODP)</div> <div>EXP.342 Newfoundland Sediment Drifts (inc. MDHSS S.T.)</div> <div>Maintenance Period (Non-IODP)</div> </div>											
<div> <div>Industry Contract Work (Non-IODP)</div> <div>Exp.343 JFAST</div> <div>Repair (Dock)</div> <div>Exp. 343 JFAST 2</div> <div>EXP.337 Shimokita</div> <div>EXP. 338</div> </div>											
<div>Preparation for FY13 Expedition</div>											



## USIO:

- JR required a Dry Dock repair in Jan 2012.

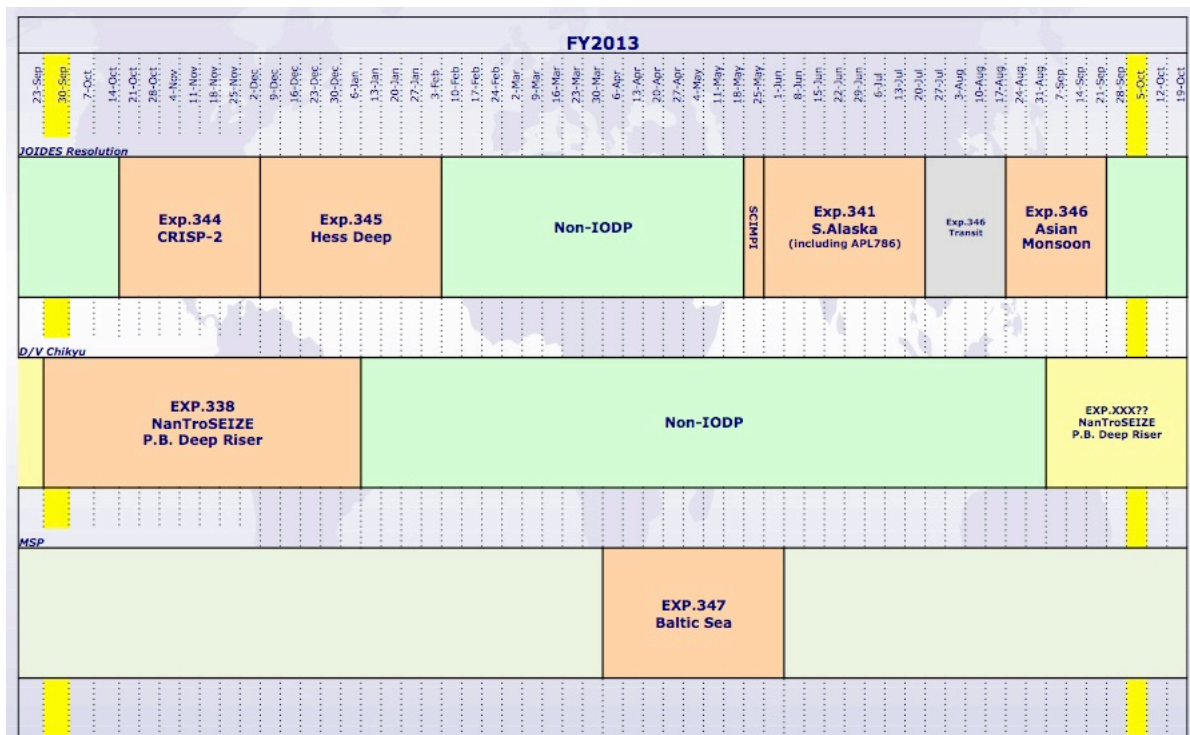
## CDEX:

- Chikyu Dry Dock (to install missing az.-thruster) completed.
- Extend Exp.343 causes Exp.337 & 338 schedule change.

## ESO:

- Coralgal Banks drilling trial: August 2012?
- FY13 Platform bidding process ongoing

## [FY13 schedule]



## USIO:

- 4 Expeditions planned but depend on NSF budget
- Budget shortfall may cause the delay of exp.346 Asian monsoon
- SCIMPI sea trial has been included in FY13 operation
- Support proposal from Neptune program

## CDEX:

- Re-scheduled Exp.338 NanTroSEIZE:
  - Shorten operation days, due to JAMSTEC H24 (2012.4 – 2013.3) budget)
  - Keeping same target depth (3,600mbsf) by introducing new technique, not to cause

further delay on NanTroSEIZE project

ESO:

- 1 Expedition planned: Baltic Sea
- Need to start FY14 expedition preparation:

Chicxulub hazard survey

[FY14 schedule]

FY2014											
23-Sep	30-Sep	7-Oct	14-Oct	21-Oct	28-Oct	4-Nov	11-Nov	18-Nov	25-Nov	2-Dec	9-Dec

USIO:

- FY14 budget: 3-4 expeditions (CPP helps the situation)
- Dry Dock requirement at the beginning of FY14
- Maximize JR operation days: Western Pacific region
  - P-505: Mariana Convergent Margin - CORKs
  - P-695: IBM Pre-Arc Crust
  - P-696: IBM Deep Forearc crust
  - P-697: IBM Reararc Crust
  - P-735: South China Sea (CPP)\* PEP-external review
  - P-552: Bengal Fan
  - APL-693: S. Chamorro Seamount – CORK
  - APL-783: Indian Monsoon History
- FY15-16 JR Ship Track: Western Pacific & Indian Ocean

- FY17 JR Ship Track: Southern Ocean toward to S. America?

CDEX:

- FY14 (H25) budget: 5 months Riser Operation?
- Continue NanTroSEIZE project to Mega-Splay Fault (5,200mbsf)
  - Depend on FY13 operation result
  - CDEX/JAMSTEC - MEXT commitment for the project?
- Renewal Program (Chikyu business model) beyond FY13?
  - Existing proposals at OTF and PEP

ESO:

- P-548 Chicxulub project: depend on FY13 Hazard Survey
- P-758 Atlantis Massif: depend on technical development
- FY15 & beyond: One MSP operation every year

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Hasegawa asked if PEP already forwarded the Chinese CPP (735-CPP) to OTF. Kawamura replied that the proposal is still in the PEP stage, but OTF put it in the FY14 schedule because it could maximize the operational activity of the JR and would probably be forwarded to OTF soon anyway. Hasegawa was concerned that it could be a message to the external advisers that this CPP will be implemented no matter how they evaluate this proposal, or they would feel being forced to say yes to this proposal. Kroon agreed with Hasegawa, but asked for his understanding of the need for a fast track for CPPs and this proposal's scientific potential. The proposal could mature from the external advice. De Leeuw added that the external advisers would receive a letter explaining how important the proposal is for the program, the background of the proposal, and PEP's comments. This particular external advise is to ask them to nurture the proposal further, not ask for their judgment. Hasegawa commented that SIPCOM and PEP need to be more careful in scheduling such a premature proposal as the program still pays 30% of the expedition cost. Larsen pointed out that implementing this proposal actually saves the program money because JR costs a lot whether it's at sea or tied up to a port. He also pointed out that this urgency is not because of the proponent, but because the program needs an efficient schedule. Divins agreed with Larsen. Kawamura gave the example of Shimokita CPP which went up to OTF on a very fast track. Hasegawa

asked if PEP will officially forward the proposal to OTF after they review the feedback from the external advisers. Kroon replied yes. He commented that the proposal would be polished with their Proposal Reponse Letter to the external advisers as they can add some output from their workshop that was held short time before the April proposal submission deadline.

Stein asked if OTF can wait for the CPP to be officially forwarded to OTF after the next PEP meeting. Kawamura replied that it could be too late because it needs 14 months prior to the schedule. Hasegawa suggested putting the CPP at end of FY14 schedule. Divins replied that it should be where it now sits because it's the only time that the weather window is open. Yeats commented that he didn't see any problem in having a CPP that makes the program financially better and more efficient in the ship track-wise.

Schuffert commented that three IBM expeditions in a row could make staffing difficult. Frueh-Green recommended petrologists, experimentalists, modelers, sedimentologists, and paleontologists. Those proposals are not just about hard rock.

De Leeuw asked what expeditions after NanTroSEIZE could enhance the Chikyu schedule. Kawamura replied he put "???" in the schedule because of no budget information from JAMSTEC; that will come around the start of Japanese FY14 (April). Azuma commented that CDEX will start to negotiate about the budget and develop the ship schedule after the Chikyu workshop that will prioritize proposals and scientific issues.

## 7.2 SIPCOM approval of FY14 schedule

Panel members voted on the FY14 drilling schedule.

**SIPCOM Motion 1206-06:** SIPCom approves the FY14 drilling schedule as presented by OTF (Agenda Item 7.1).

*Murray moved, Tauxe seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Stein, Tauxe, Teagle, Yamamoto), 0 opposed, 1 abstained (Hasegawa), 2 non-voting (Sharma, Yeats).*

## **8. Discussion of Proposal Guidelines and evaluation**

De Leeuw suggested changing the current proposal guidelines to allow different treatment for different types of proposals, and to have a mechanism to detect feasibility or safety problems at a very early stage, for example, by making submission of a pre-proposal and reviewing feasibility at that stage compulsory. He also suggested forming a sub-committee to discuss this issue and to come up with a draft guideline for SIPCOM discussions later on.

Becker asked what the timeline should be. De Leeuw replied that draft should be finished by the next SIPCOM meeting in January and finalized before the 2013 April proposal deadline. Yeats asked if it could be before the next call for proposal. De Leeuw replied that that would be ideal but too short timewise.

Murray commented that it would be difficult to evaluate all non-scientific issues at the pre-proposal stage, especially because different platforms have different non-scientific issues. We should be careful not to build an architecture that requires every single thing to be thought out ahead of time. Yeats agreed but stressed the need for the feasibility review at the pre-proposal stage.

De Leeuw pointed out that feasibility review at pre-proposal stage couldn't solve the cases of APL and CPP or others urgent proposals, which should be on a fast track and might prefer to skip the pre-proposal stage. Quinn commented that we should maintain flexibility and agility in the review system. A mandatory pre-proposal stage would help IODP beginners, but could be a wrong message to many people in the community who have already successfully written proposals. Becker and Murray agreed with Quinn. Murray commented that if PEP sees a feasibility problem in a newly submitted full proposal, they can just deactivate it right away.

Larsen pointed out that we limited the number of revisions when we developed the current system, which was a message that we don't babysit proposals anymore. Setting more filters in the system as suggested would drive the system to the opposite direction. De Leeuw replied that, however, the fact that many proposals are stuck in OTF because of non-specific issues should be recognized and solved. Yeats commented that PEP is the one to handle the proposals, so Kroon's comment should be respected.

Kroon commented that there was confusion about the CPP handling because the guidelines and what PEP should do for the program were different. And there would be confusion in the future about mantle drilling proposals that obviously have feasibility issues about which PEP might not be qualified to judge. PEP needs SIPCOM's guidance on how to deal with different types of proposals and feasibility.

Teagle commented that a pre-proposal of a very complicated project like drilling to the mantle could not be useful because of the page limit for a pre-proposal. Becker commented that the thematic review committee that existed a couple of years ago pointed out a need for greater scope in input from the IOs, and the funding agencies assured it for the new program. He was not sure about the timing, but sure that the IO's input should go to PEP. Kroon commented that he asked IOs for their input and they worked with PEP at the last meeting. Koppers suggested the IO's input at the time of sending to external review. De Leeuw commented that it should be before external review to not waste proponent's time to develop the proposal that far.

De Leeuw suggested leaving proponents to decide a full or pre-proposal, although we advise in the proposal guidelines that less experienced proponents should submit a pre-proposal to find out early about required additional funding or technical problems or piracy issues, etc. and he suggested forming a sub-committee to discuss how to deal with different proposal types.

**SIPCOM Consensus 1206-07:** SIPCOM forms a subcommittee (Kroon, Yeats, Becker, Stein, Yamamoto, Divins, Gatliff, Azuma, Larsen) to review current proposal guidelines and evaluation criteria. The task of the subcommittee is to explore pathways of incorporation of technical and other non-scientific issues, which may impact the feasibility of proposals, into the current proposal evaluation process within PEP. The subcommittee will electronically provide a report to SIPCOM by September 1, 2012.

<b>Wednesday</b>	<b>20 June 2012</b>	<b>08:30-12:00</b>
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## 9. Workshops by October 2013

7 workshop proposals that are listed in the table below were submitted for the May 10 2012 deadline. The watchdogs presented the summary of the proposals.

Short title	Proponent	Timing	Requested(K)	Watchdogs
Sepentinization	Delacour	Sep.2, 12	10	Murray
Bengal Bay	Kudrass	Oct. 8, 12	8	Iryu
Intraoceanic arc hydrothermal system	Bach	Nov. 15, 12	22.4	Frueh-Green/ Escartin
Cretaceous Ocean Dynamics	Bralower	Mar., 13	30	Teagle/ Wilson
Chukchi Sea	Polyak	Mar., 13	30	Dunbar
Deep Biosphere Research	Orcutt	Summer, 13	30	Yamamoto
Arctic marine gas hydrates	Mikkelsen	January, 13	20	Quinn

---- Sepentinization WS

[Title] Workshop Project on Serpentinization Process & Its Implications

[Proponents]

M. Andreani, Associate Professor, Lyon

A.L. Auzende, Professor, Lyon

I. Daniel, Associate Professor, Univ. Paris

A. Delacour, Associate Professor, Toulouse

[Relevance to Science Plan, 2013-2023]

Challenge 5: What are the origin, composition and global significance of subseafloor communities?

Challenge 10: What are the mechanisms, magnitude, and history of chemical exchanges between the oceanic crust and seawater?

Challenge 11: How do subduction zones initiate, cycle volatiles, and generate continental crust?

Challenge 4: Long-term climate evolution.

Also related to Deep Carbon Observatory (DCO).

[Thematic Sessions]

Mineralogy & Thermodynamics: T. McCollum (Boulder), B. Evans (U. Wash.).

Rheology, Deformation, Magnetism: I. Katayama (Hiroshima).

Geodynamics: S. Guillot (Grenoble), M. Cannat (IPGP, Fr.)

Origin of Life: N. Holm (Stockholm), M. Shrenk (Greenville, US).

Societal Implications: B. Goffe (France)

[Logistics and Budget]

Where: Porquerolles Island, Hyeres (S. France).

When: September 2-6, 2012 (3.5 days).

Who: 120 participants.

How Much: Total Budget = \$ 88,909. REQUEST = \$ 10,000.

Budget proposed for: (a) all expenses for invited speakers, incl. fees. (b) room rental and coffee breaks.

Registration fees of the other participants will cover rest of budget.

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Teagle commented that serpentinization is a hot topic and would give a new angle to challenges 8 and 9 of the IODP science plan. Murray and de Leeuw agreed. Frueh-Green commented that IODP should support early career people like these organizers. Murray asked how much the proponents knew about IODP. Frueh-Green replied that the lead proponent had joined an IODP expedition. De Leeuw commented that it would be more promising if they could focus on potential drilling sites.

**SIPCOM Motion 1206-08:** SIPCom recommends support of the workshop entitled "Workshop Project on Serpentinization Process" at the requested level of \$10,000. Workshop proponents are encouraged to focus the outcomes of the workshop to include potential drilling objectives, expedition and site locations, and development of drilling proposal(s).

*Murray moved, Quinn seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0*



*opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

--- Cretaceous dynamics WS

[Title] Understanding of Cretaceous Ocean Dynamics By Scientific Ocean Drilling

[Proponents]

Timothy J. Bralower, Paul R. Bown, Elisabetta Erba, Hugh Jenkyns, Mark Leckie and Stuart Robinson

[SPECIFIC QUESTIONS]

Unique and somewhat different from Paleogene themes

- (1) How did warm Cretaceous climate and low thermal gradients impact the intensity and patterns of ocean circulation?
- (2) What were the triggers for oceanic anoxia, and what was the geographic and bathymetric extent of anoxia?
- (3) What is the geochemical and paleontological record of ocean acidification both at the surface of the ocean and at depth?
- (4) How do anoxia and acidification affect the origination, extinction, composition and diversity of plankton and benthos assemblages? and
- (5) How and why did perturbations end and the oceanic ecosystem returned to “normal” dynamics?

[Future drilling targets]

- Northwest Africa
- Falklands Plateau
- Magellan/Manihiki
- Blake Bahamas
- Maud Rise
- Arctic Ocean

[Workshop to instigate new drilling legs]

- UCL – March 2013
- 36 participants
- COL application for US scientists

- This proposal for 18 non-US (inc. 4 grad. students)

8 x non-European @\$2000

10 x European @\$1400

Total: \$30,000

#### [Outcomes]

- Strategy for understanding Cretaceous ocean circulation
- Prioritized list of drilling legs (proposals)
- Enlistment of participants to prepare pre-proposals/update proposals
- 4-5 pre-proposals; 1-2 existing proposals
- Subsequent meetings at AGU, EGU etc.

#### [Pros]

- The Cretaceous and Palaeogene sedimentary record features multiple carbon cycle-coupled perturbations to the climate system involving changes in, for example, ocean acidity, biotic turnover and/or ocean circulation.
- This record represents arguably the most relevant geological analog that we have for ongoing Anthropogenic change.
- The Cretaceous is unique in one key respect (oceanic anoxic events) but much less extensively drilled and understood
- IODP is the only platform capable of accessing this archive
- This community has delivered in the past. Extreme Climates PPG 1997-1999: ODP 198; 199; 207; 208; 320; 342) but only Legs 198 & 207 targeted the Cretaceous

#### [Cons]

- The scientific rationale could be more sharply focused on the unique deliverable of the Cretaceous - hypoxia
- The list of potential participants has some omissions (Japanese?)
- The list of potential drilling targets is somewhat conservative
- and should focus on drilling depth transects if ocean circulation is a key objective

#### [Suggestion]

SIPCom supports this initiative subject to iteration of the focus of the scientific rationale and broadening of participation base.

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Tauxe questioned if the drilling platform is the only way to access cretaceous rocks, despite the fact that many samples were already recovered by old drillings. Dunbar replied that they might be aiming at continuous records. Teagle commented that some improved proxies have not been applied to cretaceous rocks. Kroon commented that the new proxies worked very well for Paleogene, so should work for Cretaceous. Dunbar suggested recommending engaging outcrop communities in this project.

Hasegawa expressed his support for this workshop, and commented that they should involve Japanese and New Zealand participants if they target the Pacific.

**SIPCOM Motion 1206-09:** SIPCom recommends allocating \$20,000 in support of a workshop on "Advancing our Understanding of Cretaceous Ocean Dynamics by Scientific Ocean Drilling." The steering group should ensure broad international participation and develop proposals that target the unique aspects of the Cretaceous climate system that can be addressed by scientific ocean drilling.

*Teagle moved, Dunbar seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

--- Chukchi Sea WS

[Title] Scientific drilling in the Chukchi Sea: Linking North Pacific and Arctic Ocean history

[Conveners]

Leonid Polyak (Ohio State University, USA)

Julie Brigham-Grette (U. Mass, Amherst, USA)

Bernard Coakley (U. Alaska, Fairbanks, USA)

[Steering Comm]

S.-I. Nam (KOPRI, South Korea)

M. O'Regan (Stockholm U., Sweden)

T. Sakamoto (JAMSTEC, Japan)

R. Stein (AWI, Germany)

G. St-Onge (U. Quebec Rimouski, Canada).

[Proposals “in the pipeline” in this area]

680, The Bering Strait, Global Climate Change, and Land Bridge Paleoecology

750, Chukchi Shelf to Slope Transect: Linking Beringian and Arctic Ocean history

753, Late Quaternary Paleoceanography & Glacial Dynamics in the Beaufort Sea

806-Pre, Beaufort gas hydrate

797-Pre, Alaska Beaufort Margin

[Rationale]

5,000 km of new seismic data collected in Chukchi Sea recently. Workshop will allow scientists to use this data as well as regional syntheses to develop and refine new and existing drilling proposals. Note also the other Arctic workshop proposal.

[Questions to be answered with Arctic Drilling]

- History of Beringia sea level and, thus, of water flow through the Bering Strait;
- Architecture, composition, and paleoclimate record of progradational wedges at the northern Chukchi margin, especially large mouth fans of the Herald and Barrow canyons;
- Fluctuations of the summer sea-ice margin over the broad Chukchi shelf during past warm periods;
- Extent and timing of ice caps grounded on the Chukchi shelf during Pleistocene glaciations;
- Origin and tectonic evolution of the Chukchi Borderland and Canada Basin.

[Requested fund]

Funds requested: \$30,000 (travel and meetings costs for 17 people, e.g. steering committee, keynote speakers, and 10 “early career” scientists). Going after additional funds from NSF OPP and IODP USSSP.

[Notes]

The Arctic is underrepresented in ODP/IODP accomplishments. Consistent and dramatic reductions in summer sea ice extent permit much cheaper drilling than was possible even 15 years ago.

The proposal is light on details of outputs/outcomes of the workshop (compare with serpentinization proposal!). Yet the topic is excellent, the timing is right, and this is the type of regional workshop we asked for, albeit not one of the targeted areas we discussed last meeting. (It seems that 3 of the 7 workshop proposals are in targeted areas). This is a chance to prepare a MDP?

Budget? US participant costs for a Columbus, OH, meeting seem high (\$1500) compared to what is budgeted for overseas participants (\$1700). If \$ are tight for workshops this year then I move that we fund this one at \$25K rather than \$30K.

[Watchdog's suggestion]

SIPCOM Motion 1206 - X: SIPCOM recommends funding a workshop on "Scientific drilling in the Chukchi Sea" with expenditures as requested (7 domestic US & 10 overseas participants; 10 of the 17 are early career scientists). SIPCOM notes that a co-funding is being sought from USSSP as well as NSF-OPP. (Perhaps recommend combining with Arctic methane hydrates?)

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Murray commented that IODP should support this workshop, as the Arctic is an important area for IODP. Getting some specifics about areas that need or don't need ice breakers would be useful for future drillings. Quinn agreed with Murray, and commented that he agreed with the proponent that this particular area in the Arctic is the key for Arctic research.

Teagle commented that there might be a lot of workshops about Arctic but little drilling proposals, and asked Kroon how many drilling proposals at PEP are promising as future expeditions. Kroon replied that there are about 10 Arctic proposals. He informed that PEP asked the proponents of the Chukchi drilling proposal to combine other Arctic proposals to produce the best Arctic drilling project in the next 10 years, and this proposal is their response to PEP's request. Camoin commented that the number of MSP expeditions will be limited, therefore, DPG approach would be encouraged to prioritize the drilling sites and the new areas.

**SIPCOM Motion 1206-10:** SIPCOM recommends allocating \$20,000 in support of a workshop on “Scientific drilling in the Chukchi Sea”. SIPCOM notes that co-funding is being sought from USSSP as well as NSF-OPP. SIPCOM suggests that workshop organizers contact and involve the lead proponents of additional Arctic proposals with scientific objectives in the Chukchi Sea/Bering Sea regions.

*Dunbar moved, Murray seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

**SIPCOM Consensus 1206-11:** SIPCOM encourages the PEP to move forward with the focused and detailed planning for scientific drilling in the Arctic using both mission-specific platforms and the JOIDES Resolution. This detailed planning will need to bring together all groups including scientists, industry, and ICDP to develop a feasible campaign to explore this critical and sensitive region of the Earth.

--- Arc hydrothermal system WS

[Title] Drilling an active hydrothermal system of a submarine intraoceanic arc volcano

[Steering Committee]

Wolfgang Bach, University of Bremen, Germany (co - convener)

Cornel de Ronde, GNS Science, Lower Hutt, New Zealand (co - convener)

Fernando Barriga, University of Lisbon, Portugal (co - convener and host)

Susan Humphris, Woods Hole Oceanographic Institution, USA

Junichiro Ishibashi, Kyushu University, Japan

[Timing]

3 days hosted in Lisbon, Portugal, mid - November 2012

[Participants]

~30 international experts in volcanology, seafloor hydrothermal systems and ore deposits research to discuss and plan an IODP proposal for drilling into a hydrothermal system hosted by the submarine Brothers volcano, part of the Kermadec intraoceanic

arc.

[Funds]

Partial funds (€14,700) for this workshop are provided through the MagellanPlus Program to support researchers from ECORD nations. Total requested funds: \$22,400

[Summary]

Hydrothermal processes associated with intraoceanic arcs result in large polymetallic sulfide deposits, making them a primary target for deep sea metal exploration and an important analogue for fossil Cu and Au deposits mined on land.

These hydrothermal systems host to diverse animal and microbial communities and are also some of the most hostile environments for life, owing to the extraordinary high concentration of toxic metals and metalloids in very acidic fluids.

Knowledge of the potential for these volcanoes to form subseafloor Cu deposits is entirely lacking. Thus, drilling of Brothers volcano would provide the missing link (i.e., 3D) in our understanding of mineral deposit formation and microbial environments at these volcanoes.

Drilling into an intraoceanic arc volcano with diverse hydrothermal vents would provide critical new insights into the following interrelated processes:

- the mechanism and extent of fluid-rock interaction and consequences for mass transfer of C, S, and metals and metalloids into the oceans
- the distribution of metals and associated mineral deposits in the subseafloor
- the diversity and extent of microbial life in a hostile volcanic environment

These issues are closely related to major themes of the current and future IODP science plan, as they directly address plate tectonics and the accretion of crust, chemical exchange between the lithosphere and hydrosphere, and the distribution and functioning of a deep biosphere in hostile, high pressure and high temperature environments.

[Full budget]

Travel:

\$1000 contribution towards airfare for 16 participants:     \$16,000

Lodging:

\$100 contribution towards room charges per night and participant:  $16 \times 100 \times 4 = \$6,400$

Total requested funds: \$22,400

Partial funds (€14,700) for this workshop are provided through the MagellanPlus Program to support researchers from ECORD nations.

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Frueh-Green informed that this request is only for the non-US, because the Magellan is only for European. Yeats asked what is the upper limit of the funding for this kind of proposals. De Leeuw replied that it's 30K if it's a thematic workshop. Larsen commented that the upper limit was decided when MI had 150K/year as the total workshop fund. It could not apply to the current situation.

**SIPCOM Motion 1206-12:** SIPCom recommends support of a workshop on "Drilling an active hydrothermal system of a submarine intraoceanic arc volcano" at a level of \$15,000. SIPCOM encourages the proponents to clearly define scientific hypotheses that can be tested by drilling and develop strategies for site surveys and drilling, with the main outcome being the preparation of a drilling proposal.

*Frueh-Green moved, Dunbar seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

--- Arctic gas hydrate WS

[Title]

Arctic Marine Gas Hydrates: Past, Present and Future Occurrence and Stability

[Proponents]

Convenors: Naja Mikkelsen, Jürgen Mienert, Jens Greinert, Rudiger Stein

Steering Committee: Tove Nielsen, Niels Nørgaard-Pedersen

[Workshop Purpose]

- Discuss how to add a gas hydrate dimension to the 5 existing Arctic proposals.



- 680: The Bering Strait, global climate change and land bridge paleoecology;
- 708: A paleoceanographic transect across the Central Arctic Ocean: towards a continuous Cenozoic record from a greenhouse to an icehouse world;
- 750: Chukchi Shelf to Slope transect: linking Beringian and Arctic Ocean history;
- 753: Late Quaternary paleoceanography and glacial dynamics in the Beaufort Sea;
- 756: Morris Jessup Rise: drilling the Arctic Ocean exit gateway
- Discuss ways of a better integration of in situ and remote sensing observations and state-of-the-art models.
- Generate one or more IODP proposals linked to the ICDP program and focusing on outstanding questions related to the distribution as well as past present and future stability of marine permafrost and hydrate deposits

#### [Workshop Logistics]

- 50 participants, 3 days, January 2013, outside Copenhagen, Denmark.
- Cost expected 51k Euros (~\$64k USD)
  - Request 20k Euros (\$25k) from IODP\_MI
  - Request 15.5k Euros from Magellan Plus
  - Secured 9.5k Euros from IASC/MWG
  - Secured 6k Euros from ESF/Pergamon

#### [ Scientific Objectives]

- Quantify the distribution and stability of submarine permafrost and gas hydrates in the Arctic Ocean realm
- Outline their role in the global climate system through time
- Develop new field observations needed to constrain and validate existing models of gas hydrate formation, which can be used to constrain the prediction of the future stability and behaviour of gas hydrates in a warming world

#### [Watchdog Summary and Recommendation]

- Key Strengths
  - Location, location, location (Arctic is key location for drilling)
  - Seek to understand the history of submarine permafrost and gas hydrates through time to enable an integration of modern observations within past global changes
- Key Weaknesses
  - Proposal is just not compelling (add to scope of existing proposals)
  - Cost/benefit is questionable

- Outstanding Question

- IF we really do need another Arctic workshop, is this the one that will create a coherent and integrated drilling plan from existing suite of proposals?

- Recommendation

- Decline this workshop proposal
- PIs should seek other ways to integrate their objectives with objectives of existing proposals.
- A small meeting/workshop with a few of the lead proponents of existing proposals might be an appropriate pathway forward

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Dunbar asked Quinn if he saw any synergy with the Chukchi Sea WS proposal. Quinn replied that the Chukchi Sea proposal was a lot more advanced and this workshop could be included in the Chukchi workshop or other existing workshops. But this proposal alone would not deserve of 20K. De Leeuw commented that this proposal could involve ICDP. Quinn agreed but commented that the proposal didn't mention it.

**SIPCOM Motion 1206-13:** SIPCom declines the funding request for the workshop entitled "Arctic Marine Gas Hydrates: Past, Present and Future Occurrence and Stability". SIPCom urges the proponents to seek other ways to integrate their objectives with those of existing drilling proposals. The proponents are urged to contact proponents of existing proposals and consider participating in other upcoming Arctic drilling workshops.

*Quinn moved, Tauxe seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

--- Deep biosphere research WS

[Title]

Joint Meeting with DEBI-RCN, IODP Deep Biosphere Research: A synthesis of recent investigations, discussion of new research questions, and identification of new drilling targets

[Proponent]

Lead Proponent: Beth Orcutt

[Objectives]

The final meeting of the five-year DEBI-RCN program has the aim of providing a comprehensive overview of deep biosphere research conducted within the scope of the DEBI program. To broaden the scope of this intended meeting, and to allow for more international investigators to participate, we propose to have a joint meeting between the DEBI-RCN and IODP.

\* Dark Energy Biosphere Investigation-Research Coordination Network (DEBI-RCN)

[Outcomes]

- 1) Developing comprehensive syntheses for EOS and Scientific Drilling.
- 2) Road map for applying modeling approaches for finding patterns of available data,
- 3) Road map for developing new sampling strategies
- 4) Identification of new high priority deep biosphere drilling targets, focused by region

[Funds]

Requested funding: \$ 30,000 from IODP support, primarily to cover the costs of the domestic travel expenses.

Remark: The workshop fees will be provided by DEBI-RCN meeting support funds.

[Watchdog's comment]

This WS may have a potential to develop a new scientific approaches on Deep Biosphere research, because many researchers were listed as participants. While, this workshop seems to make a plan of big meeting for final year of DEBI program, rather than proposal pressure for IODP.

- 1) The specific topics listed in this proposal already appeared in the IODP workshop reports and the new Science Plan for 2013-2023, Illuminating Earth's past, present and future. There is a doubt whether new quality synthesis, which overcome the new Science Plan, could be produced in this workshop.
- 2) The proponent mentions the road maps for applying modeling approaches as the objectives. Only one expert on thermodynamic modeling is listed as participant. It may

be a hard condition to conduct a beneficial discussion in the workshop.

3) Developing new sampling strategies for Deep Biosphere research is indispensable work. The DEBI project has developed sampling tools to collect the fluid sample.

4) Identification of new high priority deep biosphere drilling targets is a very important issue for the next IODP. The proponents should consider a focused workshop involving several disciplines to produce quality IODP proposals on the deep biosphere.

Recommendation: Decline this workshop proposal.

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Yeats commented that the microbiology community should be more engaged in IODP, and expressed his support for this workshop. Murray commented that the proponents would need to think the balance in the participants from modeling field and IODP community. Becker questioned their connection to the drilling program but agreed with Yeats and commented that we should not turn it down flat.

Yamamoto commented that he wanted to support this workshop as a microbiologist, but he doubted if there will be a focus on drilling when the workshop is combined to the final ceremonial meeting of DEBI program. Yeats commented that they are focusing on IODP drilling as they mentioned in the proposal that their goals are all related to IODP.

**SIPCOM Motion 1206-14:** SIPCom recommends support of the workshop entitled “IODP Deep Biosphere Research....” at a level of \$20,000. The proponents are encouraged to maintain their focus on IODP related microbiological research, and continue to target specific IODP objectives. The workshop program should be better defined. SIPCom further noted that PEP has identified microbiological aspects of deep crust as being an important objective, and the proponents should seek input from PEP as they build their workshop agenda.

*Yamamoto moved, Murray seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

--- Bengal Bay WS

[Title]

Records of geohazards and monsoonal changes in the northern Bay of Bengal-  
preparation of an IODP drilling proposal

[Proponents]

Volkhard Spiess and Christian France-Lanord

[Scientific Objectives]

Ganges and Brahmaputra transport the world largest sediment load into the northern Bay of Bengal (BoB).

The rapidly accumulating sediments on shelf, slope and in a canyon contain a high-resolution record of:

- Anthropocene, Holocene and late Pleistocene paleoclimatic changes and cyclonic episodes - Subsidence, sea-level changes and subduction-related earthquakes.

The workshop at Marum/Bremen combines different disciplines to develop the best strategy for a complex IODP drilling proposal.

[Scope of Topics]

- Anthropocene environmental changes,
- Late Holocene cyclone history,
- Late Holocene subduction earthquakes,
- Holocene paleoclimatic and paleoceanographic changes,
- Pleistocene sea level changes and subsidence, and
- Pleistocene paleoceanographic history.

[Potential for interactions with other international Science Programs]

- US based PIRE "Life on a tectonically-active delta: Convergence of Earth science and geohazard research in Bangladesh with education and capacity building",
- International Geological Correlation Programme (IGCP) Project 475, "Deltas in the Monsoon Asia-Pacific Region (DeltaMAP)",
- APN "Asian Mega-Delta" project

[Requested fund]

8000 US Dollar

[Watchdog's comment]

I have reviewed the IODP Workshop Proposal of "Records of geohazards and monsoonal changes in the northern Bay of Bengal - preparation of an IODP drilling proposal" and strongly recommend funding for this workshop because this study is important and this proposal tries to develop the new phase of IODP.

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Dunbar commented that we should not spend a lot of time to discuss this proposal because they were asking only 8K. Yeats commented that their request was not that small to the fairly small total WS budget. Iryu commented that their objectives are directly linked to the IODP science plan and suggested supporting this proposal.

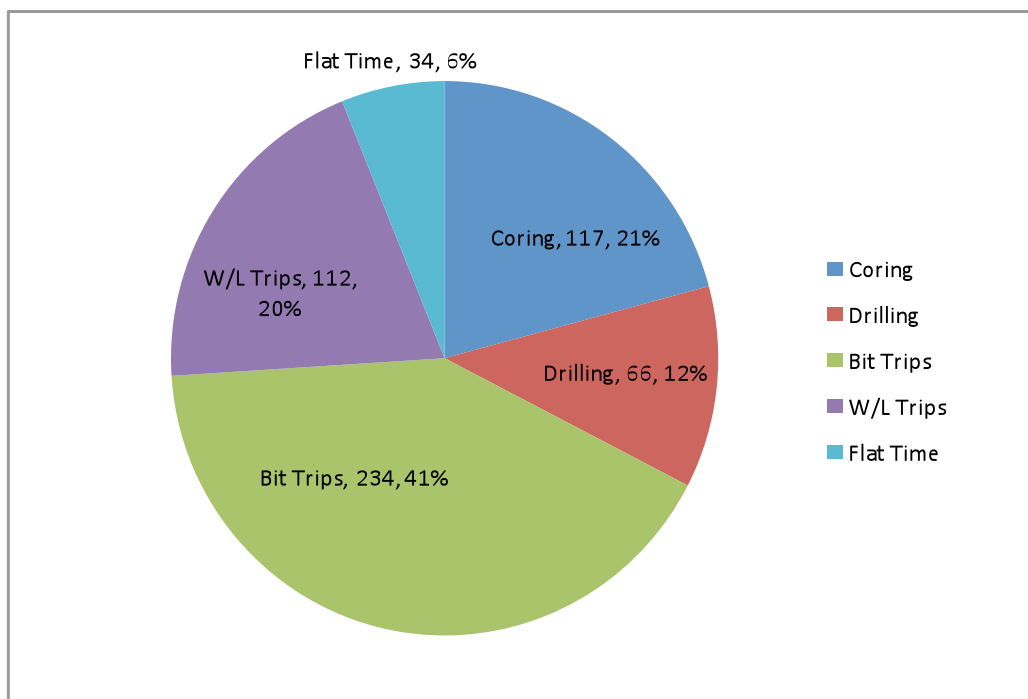
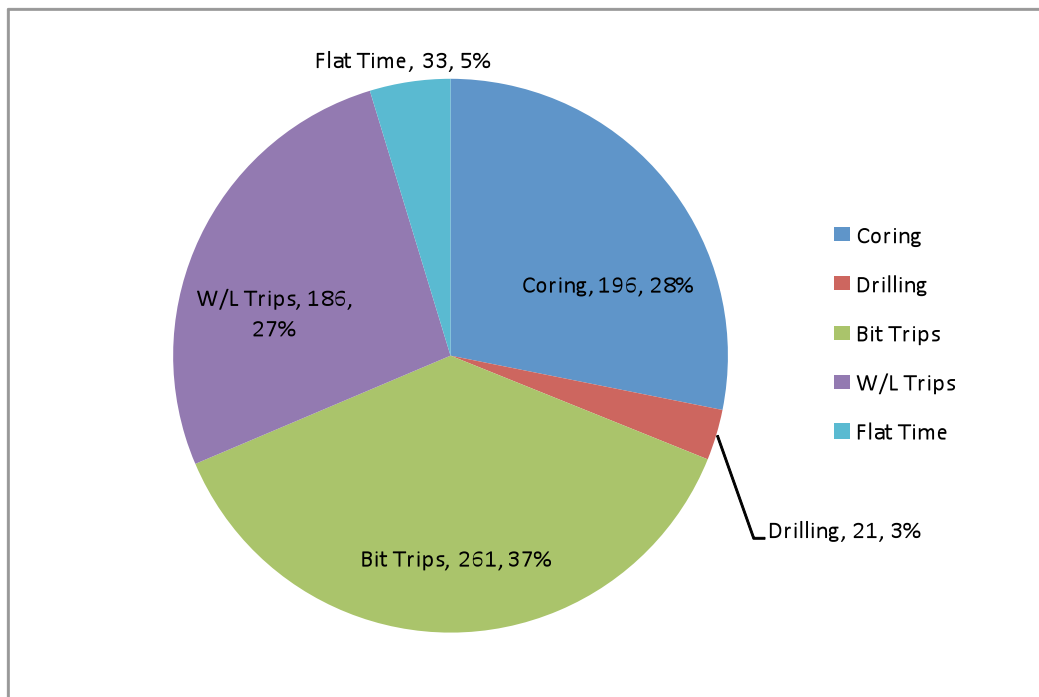
**SIPCOM Motion 1206-15:** SIPCOM recommends support of the IODP Workshop Proposal of "Records of geohazards and monsoonal changes in the northern Bay of Bengal - preparation of an IODP drilling proposal" at the requested level of \$8,000. The proposed drilling will address high resolution records of paleoclimate, paleoceanography and paleogeohazard (earthquakes and cyclones) as well as environmental perturbations by human activities from Asian mega-delta deposits. The proponents should consider which platform will be used for this project, JR or MSP.

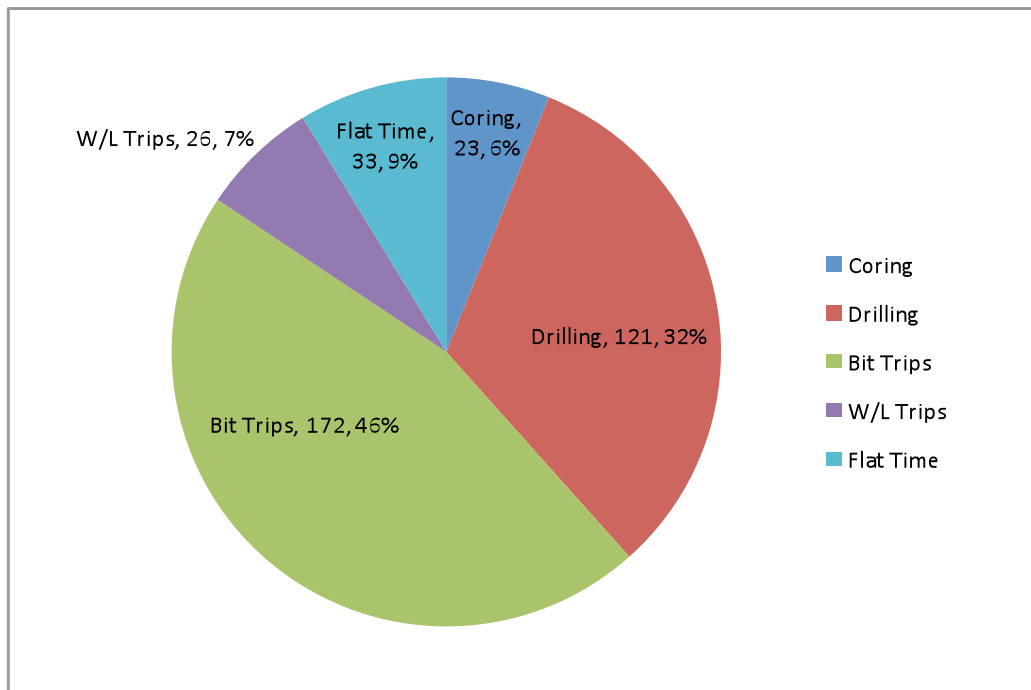
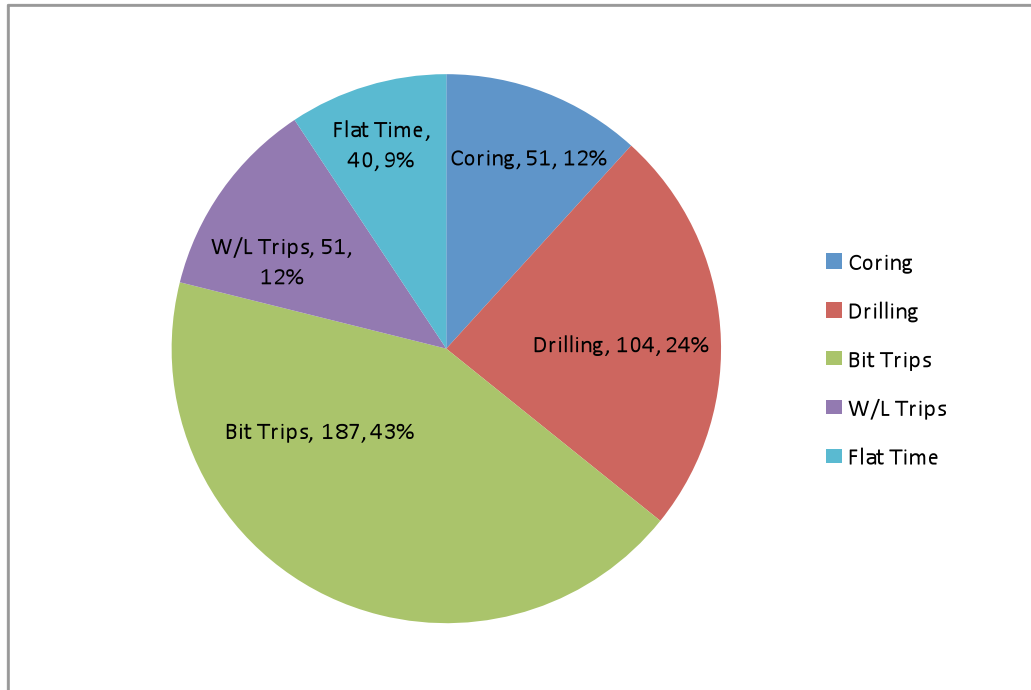
*Iryu moved, Dunbar seconded, 14 in favor (Becker, de Leeuw, Dunbar, Frueh-Green, Hasegawa, Hayashida, Iryu, Ishiwatari, Kroon, Murray, Quinn, Tauxe, Teagle, Yamamoto), 0 opposed, 0 abstained, 1 in COI (Stein), 2 non-voting (Sharma, Yeats).*

## 10. Scoping of BEAM mantle drilling

Holly Given introduced BEAM and its activities.

BEAM office was established with the support from Sloan Foundation. It made a contract with a consulting company, Blade energy, to study the feasibility of mantle drilling. One of the outcomes was an approximation of the number of ship days needed for the project. The pie graphs below show 4 patterns of the number of days and the balances of how many days are spent by what kind of operation.





As these graphs shows, significant time would be spent just for replacing drill bits. The more cores, the more days. And the longer time, the bigger cost, the bigger risk.

There was a meeting with the Sloan officer in October. Sloan and BEAM office agreed on spending the fund for the following items.



- IODP Community Discussions
- Roundtable Exercise
- Next-Phase Engineering Study
- Public Outreach Materials
- Broaden the Science Community
- Persuade “Thought Leaders”

Beam office held a management exercise in February at Scripps. We invited some outside experienced people like James Baker who had been running NOAA for many years. The JAMSTEC budget director also joined. One strong recommendation was the need to spread the right message to the community about the compelling science in the project. A web site must be a good tool to do it.

Yoshi Kawamura and Blade had a kickoff meeting for the next-phase engineering study “High-Impact Systems Technical Review and Risk Reduction Study” at OTC in Huston. The objective of the study was officially prescribed as follows.

“The Objectives of this Study are to identify the original equipment manufacturers and service companies that provide rock drill bits and coring, and investigate the status of their technologies today, what technological improvements they may reveal for mantle application by 2017, and what suggestions they offer to accelerate technological development between now and 2017”

Attending OTC was also to outreach the drilling engineering community. Their involvement is indispensable to the success of this mantle project.

Here is the list of the recent activities:

- Scoping volunteers identified 12/11
- Management Exercise 02/12
- Blade High-Impact Systems Study 03/12
- Media Coordination w/ American Institute of Physics 4/12
- Prototype Project Website 06/12
- Follow up M2M Review (with proponents)
- Walter Munk visit to Japan 11/12
- Chikyu Ten-Year Workshop 12/12

Walter Munk is a symbolic scientist to the mantle drilling community from Project MOHOLE. We have made contact with others who could be influential outside our community, including two people on the board of the J. Craig Venter Institute. All have been enthusiastic.

BEAM project needs a Continued Campaign of Project Development and Communication, because although it might be too early for some specific groups to show their support for this project, but it's not too early to get them "not against" this project.

#### **11. ICDP-IODP linkages update**

Larsen reported that there had been no update since the previous SIPCOM meeting. He commented that there would be two issues related the future collaboration with ICDP, Scientific Drilling that is published jointly by IODP and ICDP, and the Forum that ICDP should be involved in as a member. He stressed that it's very prudent for IODP's future to start talking to ICDP over these issues soon.

#### **12. Website progress**

Given introduced the new IODP web site that was launched on June 13th.

[Features]

- New Content Management System (CMS) and new design
- System uses open-source components.
- System is hosted on virtual servers administered by IODP-MI.
- All pages from old site have been migrated to new CMS and are findable via Search.
- New site information architecture intended to provide a better introduction to IODP for general public, and to make the site easily navigable for regular visitors.

Comments and suggestions can be sent to [webmaster@iodp.org](mailto:webmaster@iodp.org).

#### **13. SCP (Site Characterization Panel) and SD (Scientific Drilling)**

De Leeuw brought up the two issues, SCP (in terms of the matrix of required site survey data

and the timing of meeting) and SD (in terms of the future demand), which NSF asked SIPCOM to discuss.

--- SCP

Allan offered an idea that SCP would function most optimally by having closer ties to the PEP, and mentioned that the matrix classification system of SSP is out of date and should not be used as criterium anymore.

Kroon and De Leeuw agreed on the efficiency of SCP in conjunction with PEP.

Teagle commented that the current matrix requires too many site surveys, which is financially bad for the program. Dunbar agreed with Teagle. Murray and Dunbar pointed out that SSP asked proponents for expensive unnecessary data. If SSP did it wrong just because of the existing matrix, not using it would increase the quality of the SCP. Murray pointed out that different platforms require different levels of site survey data. PEP's feedback about the need for what kind of site survey data should be respected.

De Leeuw summarized that SIPCOM is in favor of SCP meetings in conjunction with PEP meetings and not using the existing matrix.

--- SD

De Leeuw informed that NSF asked SIPCOM to discuss whether SD (Scientific Drilling), which is now published by IODP-MI, should be continued. Allan explained that NSF admits the importance in terms of the joint effort with ICDP, but NSF now questioned its expense and future ownership. Janecek commented that SIPCOM's advice on how important the SD is in the future program would help NSF's internal discussion.

Murray asked how expensive it is. Given replied about 25K USD per issue. Allan pointed out that FTE's salary should be added to it. Murray summed them up to 100K USD per year roughly. Tauxe suggested digital distribution to reduce the cost of printing and mailing. Larsen commented that mailing had been an important aspect of the journal and he had received some positive feedback about mailing from his colleagues. Yeats agreed with Larsen.

Teagle agreed on the importance of SD in terms of a visible link with ICDP. Murray commented that getting information from both ICDP and IODP at the same time is great, but if giving up printing and mailing could save some expeditions, digital distribution should be chosen. Tauxe stressed that online publication is no longer a problem for most people, as many journals are shifting to online, outreach activities in scientific community also shifting to it and people are used to it.

Becker commented that the decision should be made based on analysis of what degree it contributes to outreach and education.

De Leeuw summarized that SIPCom agrees on the importance of SD in the future and supported the possibility of digital distribution.

#### **14. Review of action items, motions, and consensus statements**

Panel members walked through the drafts of the consensus statements, motions and action items, and discussed the wording.

#### **15. Review of any additional action items, motions, and consensus statements**

De Leeuw and Quinn drafted the following consensus.

**SIPCOM Consensus 1206-16:** SIPCom expresses its gratitude to Dr. Jeff Schuffert and his colleagues, our local hosts for this meeting in Arlington /Washington DC. The hotel and meeting facilities provided an excellent venue for a productive meeting including an unexpected break out session in the open air due to a fire alarm. SIPCom members also enjoyed learning about the history of our meeting location.

----- Next SIPCOM Meeting

De Leeuw suggested having the SIPCOM last meeting in early January when the detailed information on the future program framework will be more available and possibly before FGB's operations start.

Place: UK

Date: 22-23 January 2013

**16. Closing Remarks**

De Leeuw adjourned the meeting at 16:20.

(Appendix A)

**IODP Forum**  
**Terms of Reference (Version 2)**  
**DRAFT 05/15/12**

**General Purpose**

The IODP Forum is the custodian of the Science Plan and is a venue to monitor scientific progress during the new program. The Forum will provide advice to IODP Facility Governing Boards on Platform Provider activity.

**Mandate**

1. Assessing progress on achieving long-term objectives of the Science Plan.
  - a. The Forum will monitor and assess long term and regional planning, and make recommendations to the individual Facility Governing Boards.
  - b. The Forum Chair will discuss the progress of the program toward completion of the Science Plan with the respective Facility Governing Boards.
2. Monitoring progress of Facility Governing Boards and Platform Providers and providing assistance where needed in select areas, specifically:
  - a. Standardization of reporting efforts.
  - b. Curation and storage of cores, including access to archive cores.
  - c. Overarching educational and public relations activities.
  - d. Planning and scoping of major projects.
  - e. Communication of need for non-standard activities to the scientific community. For example:
    - i. co-funding of drilling operations by commercial entities,
    - ii. rapid response drilling that might impact planned expeditions.
3. Monitoring effectiveness of IODP website by working with the Program Support Office.
4. Monitoring synergistic collaborations with other organizations (e.g., DCO, ICDP, OOI, PAGES, etc.)

5. Evaluating workshop proposals and providing recommendations on priority and funding levels to Facility Governing Boards and Program Support Office
6. Advising/stimulating public relations and educational activities
7. Advising on ethical issues

## **Membership**

IODP Forum membership is open to all countries, consortia or entities providing funds to platform operations. Each contributor to the Program can provide 1 voting member to IODP Forum. The membership of the Forum shall be selected by member Program Offices, based on demonstrated experience in scientific and managerial leadership positions. In addition to voting members, the Forum will have liaisons from all major entities in the program (including Facility Governing Boards, Implementing Organizations, the Program Support Office, and the Chair and Deputy Chairs of the Proposal Evaluation Panel), potential new members to the Program, and interested related organizations (e.g., PAGES, OOI, ICDP etc.). Forum member representatives shall serve staggered 3-year terms and may serve consecutive terms.

## **Chair**

The chair of the IODP Forum should be selected for their scientific and managerial leadership and will be a well-recognized scientist who will be the face of the Program. The role will require some dedicated time, and the chair should be provided with appropriate salary and logistical support (0.5 FTE). The chair serves for two years and will be selected by an independent panel of experts through an open process.

## **Decisions**

The Forum shall reach decisions by consensus. A quorum shall consist of at least two-thirds of all voting members. In cases for which a consensus is not possible, a vote will be recorded but no decision reached.

## **Meetings**

The Forum will commence with the new Program on October 1<sup>st</sup>, 2013. It will convene once annually to execute its mandate and assess progress of the Program toward completion of the Science Plan.