# IODP-MI Operations Committee
# 15-16 April 2004
# IODP-MI Headquarters
# Washington DC

# Meeting Report

**MEETING ATTENDEES**

**OPCOM #2 members**

| | |
|---|---|
| Jack Baldauf | JOI Alliance, Texas A&M University, USA |
| Keir Becker | Rosenstiel School of Marine & Atmospheric Science, U. of Miami, USA |
| Mike Coffin | Ocean Research Institute, University of Tokyo, Japan |
| Dan Evans | ECORD Science Operator (ESO), British Geol Survey, United Kingdom |
| Dave Goldberg | JOI Alliance, Lamont Doherty Earth Observatory, USA |
| Thomas Janecek (chair) | IODP Management International, Inc., Washington, D.C., USA |
| Yoshihisa Kawamura | Center for Deep Earth Exploration (CDEX), JAMSTEC, Japan |
| Jeroen Kenter | Faculty of Earth Sciences, Vrije Universiteit, The Netherlands |
| Shinichi Kuramoto | Center for Deep Earth Exploration (CDEX), JAMSTEC, Japan |
| Hans Christian Larsen | IODP Management International, Inc., Sapporo, Japan |
| Frank Rack | JOI Alliance, Joint Oceanographic Institutions, Inc., USA |
| Ursula Roehl | ECORD Science Operator (ESO), University of Bremen, Germany |
| Alister Skinner* | ECORD Science Operator (ESO), British Geol Survey, United Kingdom |

**Observers**

| | |
|---|---|
| Jamie Allan | National Science Foundation (NSF), USA |
| Rodey Batiza | National Science Foundation (NSF), USA |
| Jeff Fox | JOI Alliance, Texas A&M University, USA |
| Bruce Malfait | National Science Foundation |
| Kenji Kimura | MEXT Liaison to National Science Foundation |
| Mary Reagan | JOI Alliance, Lamont Doherty Earth Observatory, USA |
| Manik Talwani | IODP Management International, Inc. (IMI), Washington, D.C., USA |
| Yoichuro Otsuka | IODP Management International, Inc. (IMI), Washington, D.C., USA |

*unable to attend

## ORIGINAL AGENDA

**Thursday 15 April 2004** **08:30-17:00**

1) Welcoming remarks and a review of the OPCOM meeting agenda

2) Review OPCOM's mode of operation

3) FY05 program plan budget updates from Lead Agencies

4) Operator updates or issues affecting scheduling
   a. CDEX representative
   b. JOI Alliance representative
   c. ESO representative

5) Review and revise FY04/FY05 schedules

6) Scoping activity- Concept and implementation
   a. Arctic
   b. NanTroSEIZE
   c. CRISP
   d. Tahiti
   e. Indus

**Friday 16 April 2004** **8:30-17:00**

7) Develop expedition and drill-site designation scheme

8) Expedition Staffing

9) IODP publications
   a. Update of FY04/05 plans (IOs)
   b. Future plans (Larsen)

10) Sample, Data, and Obligations Policy

11) Environmental issues
   a. Marine mammals (checkshots, VSPs)
   b. Bio-diversity

12) OPCOM meeting timetable and long term-planning

13) Status of IODP Site Survey Data Bank (Larsen)

14) Other business
   a. Additional IO needs from SAS?
   b. Next meeting date/location

**Revised Agenda --- Friday April 16, 20004**

Based upon discussions from Thursday April 15, 2004, the agenda for the second day was revised as follows.

**8:30-12:30**

5 cont.) Follow-up Discussion to Drilling related items (IRM alternates, contingency time)

6) Scoping-- Concept and Implementation

7) Develop expedition and drill-site designation scheme

8) OPCOM meeting timetable and long term-planning
Next meeting date/location

**13:30 to 15:30**

9) Environmental issues
Path forward on overarching policy

10) IODP publications

11) Sample, Data, and Obligations Policy

12) Status of IODP Site Survey Data Bank (Larsen)

13) Other business

## 1) Welcoming remarks and a review of the OPCOM meeting agenda

The meeting was opened with welcoming remarks by the chair, followed by an explanation of meeting logistics, and a review of the agenda.

Manik Talwani, Presidient IODP-MI Inc, further welcomed the OPCOM attendees and presented three wiring diagrams that should be used by all IODP entities (i.e., IODP-MI, IOs and SAS) to ensure that a consistent message is presented about the organization and structure of IODP (**Appendix 1**). Hard copies of the diagrams were distributed to attendees

***ACTION ITEM #1:***
*Chair to distribute digital copies to attendees.*

## 2) Review OPCOM's mode of operation

The Chair reviewed the OPCOM's mode of operation, including the General Purpose, Membership, and General Operation

• **General purpose**
The Operations Committee (OPCOM) is a standing committee of IODP Management International, Inc. (IODP-MI), whose general purpose is to formulate the most logistically and fiscally effective operational plan that has the goal of achieving the IODP scientific objectives as defined in the long-range IODP science plan and prioritized by the Science Planning Committee (SPC).

• **Membership**
The membership of OPCOM will be vary from meeting to meeting, with the attendees reflecting the issues to be addressed. The members will generally include:

- VP Science Operations: chair
- VP Science Planning
- Manager of Science Operations
- Chair SPC
- Two additional SPC members
- IO representatives
- Outside experts and SAS liaisons as needed

The two additional SPC representatives, the IO representatives, the outside guests, and SAS liaisons may vary from meeting to meeting depending on the agenda and issues to be discussed.

• **General Operation**
The principal function of the OPCOM will be to receive the prioritized program from SPC and to work with the relevant Implementing Organizations (IOs) and others, as needed, to develop one or more scenarios with a cost/benefit type of calculation for each scenario. OPCOM will then present the preferred schedule to the SPC for review and comments to ensure the prioritized

science objectives are being met within fiscal and operational constraints. If necessary, the schedule will be discussed iteratively between OPCOM and SPC to maximize the science. IODP-MI will then include this operational plan in the Program Plan to be forwarded for necessary approvals to the Science Planning and Policy Oversight Committee (SPPOC), the IODP-MI Board of Governors, and the Lead Agencies.

OPCOM members will not vote. The chair will pursue a consensus on issues, if possible, while recognizing budgetary and operational constraints. If there is no consensus, the chair will ensure that any dissenting views are communicated to SPPOC along with his recommendations.

***ACTION ITEM #2***
*In response to a query about informing the community of IODP-MI operations (and OPCOM operations in particular) the chair noted that a "Quick Start Guide to IODP" is being developed. Chair to publish "Quick Start Guide to IODP" in JOIDES Journal, on IODP website, and sent out on list-server.*

## 3) FY05 program plan budget updates from Lead Agencies

The Lead Agency representatives informed the committee that budget advice for FY05 has been provided to the IOs and IODP-MI ($20 Million for SOC). No new information was available at the time of the meeting and additional advice for FY05 and MREFC funding is expected late in this fiscal year.

ESO representative Dan Evans informed the committee that given the high cost of the ACEX expedition only about $4 million is available in FY05 for Mission Specific Platform operations.

## 4) Operator updates and issues affecting scheduling

**• CDEX Report**
Yoshi Kawamura reported on issues related to CDEX and riser operations including (1) the tentative 5-year schedule of riser operation planning, (2) riser drilling principles, (3) planning for a training cruise (4) the status of NanTroSEIZE, CRISP, Indus Fan planning and (5) scoping needs with respect to timing and personnel. **See Appendix 2 for PowerPoint presentation.**

Specific OPCOM issues from CDEX
A scoping group needs to initiated for NanTroSEIZE. See discussion in Section 6 (Scoping Group Report) for more on this issue.

**• JOI Alliance Report**
Jack Baldauf presented the USIO report including updates on 1) Phase 1 operations, (2) Expedition 1 (Juan de Fuca), (3) Transit Costa Rica Cork APL, (4) USIO Expedition 2&5 (North

Atlantic), (5) Expedition 3&4 (Core Complex) and (6) Issues surrounding Marine Mammals, Technical Exchange between IOs, the Gulf of Mexico Proposal, Reports, and Publication ( **See Appendix 3 for full PowerPoint Presentation).**

Specific OPCOM Issues from JOI Alliance

APL Costa Rica
- Should it be scheduled?
- Co-chiefs and science party?

North Atlantic
- Keep IRM Sites?
- Weather Program---put contingency time into program?
- Norwegian Greenland Sea site—Drill new hole?
- Logging policy—keep initial SPC approved logging plan?
- Science Party- approval of integrated science party plan for North Atl expeditions?

CORE
- Incorporate ADCB into Core Complex expeditions/
- Science Party- approval of integrated science party plan for CORE Complex expeditions

Other
- Gulf of Mexico- When to complete Hazard Survey?
- Reports - What type of reports does IODP-MI want?
- Publications – IO responsibility?
- How to implement long lead time management?
- Marine Mammals/EA
- Phase 2 IODP-MI coordination with SAS

**•ESO Report**

Dan Evans presented the ESO report, updating the OPCOM about ACEX and Tahiti operations (**Appendix 4**) .

ACEX Expedition

Updates for the ACEX expedition included information about the nuclear icebreaker contract (pending), recent review of ice management strategies, and the loan of drillpipe by TAMU. In addition, the ESO is awaiting SCIMP response to a proposed measurements plan and the piston corer (land) tests were scheduled for the following week in Edinburgh.

In response to a query about backup coring tools, Evan replied that the current soft-sediment backup tool for ACEX is a push corer.

Tahiti

Based upon SPC Consensus 04-03-23, ESO is now reviewing vessel options for Tahiti. The expedition would probably be scheduled for May/June 2005. Only about $4 million is available for vessel acquisition, ESO is exploring potential shore-based facilities and environmental issues. A meeting with proponents is scheduled for the first week in May.

ESO Issues for OPCOM to address

ACEX

Wireline logging vs. memory tool logging options?

Tahiti

Core size requirements- How will different core diameters affect downstream core processing?

## 5) Review and revise FY04/FY05 schedules

Based upon the presentations of the IO representatives the following issues were discussed in detail:

**CDEX ISSUES**

Scoping needs to commence soon for NanTroSEIZE. OPCOM deferred discussion of this particular issue until later in the agenda where the general issue of scoping groups (implementation, mandates, protocols, funding) would be discussed.

**JOI ALLIANCE ISSUES**

A revised FY04/FY05 USIO Phase 1 schedule was presented to OPCOM for consideration. In particular, OPCOM input was requested on a number of issues/programs that would require extra days and/or additional funds. It was noted that the current 365-day program had about eight additional days of unallocated time.

• **Costa Rica APL**

OPCOM discussed the following consensus item from SPC regarding scheduling of the Proposal 641-APL Costa Rica Cork-II.:

**SPC Consensus 04-03-15:** The SPC forwards Proposal 641-APL Costa Rica CORK-II to the OPCOM for consideration for scheduling in FY2004 provided that it does not impact any other previously scheduled expeditions.

After a discussion of the technical merits of the proposal and the logistics required to implement this APL during the transit between Juan de Fuca expedition and the first North Atlantic expedition, OPCOM decided that the Costa Rica APL should be scheduled since it can be managed within the time available without impacting other scientific cruises. Approximately three extra days are required for completion of the operation. OPCOM further discussed staffing on the transit. The scientific party will be small; on the order of 6 scientists. Thus only one co-chief is needed and the staffing for the scientific party should follow proportional member representation. Scientific staff must follow full data and sample policies and the Co-chief will be required to complete a prospectus and a cruise report. The OPCOM further decided that the cruise report should be appended to the Expedition 1 report.

***ACTION ITEM #3***
*Member country representatives at OPCOM were requested to inform their national offices to submit nominations by 23 April, 2004.*

**•North Atlantic**

IRM Sites
OPCOM was informed by the USIO that Transocean has stated that a support vessel is required for operations at the IRM sites. OPCOM discussed the implications of the cost of a vessel to drill these sites (estimated to be greater than $330K) vs. the loss of science if alternate sites were drilled (e.g., information on latitudinal changes, water-mass migration, and deep water end member for the N. Atlantic). The science at the IRM sites is a high priority of the proposal but the cost implications at this stage are an overriding factor. OPCOM elected to move forward with replacing the IRM site with alternate sites. However, OCPOM also decided to keep the IRM sites under its purview to allow for the possibility of incorporating these site into a future (USIO Phase 2) program when a ship with increased operational capabilities may be available. This discussion emphasized the need for longer-term planning between ranking and scheduling in order to identify these types of issues and to present SPC with distinct cost/benefit information before the schedule is set (See Section 8 of this report, below).

Weather Program---contingency time
The concept of including weather contingency time in North Atlantic Climate 1 schedule (and in expeditions in general) was discussed by OPCOM. The USIO estimated that the expedition could have an estimated 10-15% downtime resulting from weather. Given this, OPCOM agreed that some flexibility (3-4 day contingency) was important to incorporate into planning for this expedition. CDEX pointed out that such flexibility was also important for future riser programs. OPCOM, however, stressed that this concept needs to be discussed on a case-by-case basis for non-riser expeditions.

Norwegian-Greenland Sea

OPCOM discussed the following consensus item from SPC:

**SPC Consensus 04-03-23:** The SPC was briefed about discussions with the JOI Alliance regarding drilling a new hole for achieving the objectives described in Proposal 543-Full2. The proposal indicated that Hole 642E would be suitable, and in many ways ideal, for the proposed experiments. We are concerned that drilling a new hole will require additional time and funds, and we request that the lead proponent prepare a proposal addendum that justifies additional ship time and program costs if these are required to achieve the primary project objectives. The addendum should be submitted in time for consideration at the OPCOM meeting on 15-16 April 2004. Otherwise, the proponent and the JOI Alliance should determine the best approach to accomplish the proposed science within the currently allocated ship time and budgets.

The proponent did submit a proposal addendum and OPCOM spent considerable time discussing the scientific merit outlined in both the original proposal and the addendum, as well as the time and costs associated with drilling a new hole. OPCOM deemed that the scientific merit for a new

hole was justified and approved the new strategy with the understanding that the original program would be used as a backup strategy.

North Atlantic logging program

OPCOM discussed the issue of logging vs. coring time for the North Atlantic Expeditions. The co-chiefs wish to maximize coring, emphasizing the need to recover complete sections. OPCOM understood this need but also noted that downhole logging was part of the original proposal that was forwarded by the SSEPS and ranked by SPC. OPCOM also noted that the logging program only consisted of 36 hours of operational time at two sites. OPCOM felt that the SSEP review and SPC ranking processes were important to honor and recommended that logging be considered and planned for the initial site. The need for logging at subsequent sites should be discussed by the scientific party with decisions on how to proceed based on the results from the first sites, core recovery, and the scientific and environmental conditions. OPCOM felt the details of downhole logging conditions should be worked out between the co-chiefs and the operators at the pre-cruise meeting. As part of this discussion concerning operational changes between the time SPC ranks a proposal and it is implemented, OPCOM noted that the rationale for any significant operational changes to the scientific priorities should be explicitly detailed in the prospectus.

***ACTION ITEM #4****:*
*The need for a logging policy for IODP was apparent during this discussion. The OPCOM chair will ask SCIMP to address this issue at their next meeting.*

Science Party

In response to the SPC consensus 04-03-21, the USIO discussed a strategy for a joint scientific party for the two North Atlantic Expeditions (**see slide 21 of Appendix 3**).

**SPC Consensus 04-03-21:** The SPC recommends to the IMI that participants of the North Atlantic I and II and Core Complex I and II expeditions be considered as single science parties, respectively.

OPCOM approved this USIO strategy for North Atlantic expedition staffing, which involves a combined pre-cruise meeting, shared access to samples and data, separate Expedition reports, but potentially combined Scientific Reports.

**•CORE Complex Expeditions**

Advanced Diamond Core Barrel

The USIO discussed the possibility of using the Advanced Diamond Core Barrel (ADCB) on the CORE Complex expeditions. The purpose of the test would be to run a head-to-head comparison with the RCB in the same hard-rock formations. There would be minimal impact on the science as the ADCB would be deployed in the bottom of the hole after RCB coring operations ceased. ADCB operations would need approximately two days. OPCOM supported the concept of incorporating the use of the ADCB into the CORE Complex program. They felt (1) that this type of test was very appropriate given the lithologies and the science program and (2) that it was important in IODP for IOs to provide this type of engineering development and testing time when possible. In addition, if the ADCB operations were successful, it could be used at other times during the expedition

Science Party

The USIO presented a joint science party plan (slide 28 in Appendix 3) for both CORE Complex expeditions (see SPC Consensus 04-03-21 on previous page). OPCOM approved this plan, which includes a combined pre-cruise meeting, share access to samples, an integrated sampling plan, and integrated ER and SR volumes.

**REVISED SCHEDULE FOR USIO OPERATIONS**

Base upon OPCOM decisions (describe above) the USIO revised the schedule for FY04/05 riserless vessel operations. Table 1 (below) provides the details of this revised schedule.

| Cruise* | | Port (Origin) | Dates[1,2] | Total Days (Port/Sea) | Days at Sea (Transit[3]/Ops[4]) |
|---|---|---|---|---|---|
| Transit | | Gamagori, Japan | 1 - 20 June '04 | 19 (2/17) | 17/0 |
| Mobilization | | Astoria | 20 – 27 June | 7 (7/0) | (0/0) |
| Juan de Fuca Hydrogeology | 1 | Astoria | 27 June – 21 Aug | 55 (1/54) | 2/52 |
| Costa Rica Hydrogeology/ Transit | | Astoria | 21 Aug – 22 Sept | 32 (1/31) | 28/3 |
| North Atlantic Climate 1 | 2 | St. John's Newfoundland | 22 Sept– 14 Nov | 53 (5/48) | 5/43 |
| Oceanic Core Complex 1 | 3 | Ponta Delgada | 14 Nov – 5 Jan '05 | 52 (5/47) | 7/40 |
| Oceanic Core Complex 2 | 4 | Ponta Delgada | 5 Jan – 27 Feb | 53 (5/48) | 7/41 |
| North Atlantic Climate 2 | 5 | Ponta Delgada | 27 Feb – 22 April | 54 (5/49) | 4/45 |
| Transit | | Reykjavik | 22 April – 10 May | 18 (3/15) | 15/0 |
| Demobilization | | Galveston | 10 May – 1 June | 22 (22/0) | 0/0 |

Notes:

**Acceptance of the vessel will take place 31 May 2004.**

* Expedition nomenclature will be adjusted in the future to reflect naming protocols to be established by IODP-MI.

[1] Ship is scheduled to arrive 0600 hr on first day of port call.

[2] Initial cruise date reflects first day of port call; ship sails when ready.

[3] Transit = Estimated time to/from port to the operating area.

[4] Ops = Operations (includes both on-site and between-site time).

**•Other USIO Issues**

Gulf of Mexico

OPCOM discussed the status of the Gulf of Mexico (GOM) hazard survey status. Given the current FY04 budgetary constraints, a likely FY07 implementation of the GOM operation, and a fluid Phase 2 schedule (until congressional budget issues are resolved), OPCOM suggested delaying this activity until FY05.

Reports
The USIO discussed the contractual requirements for reports and how they planned to streamline the process. The OPCOM chair agreed that IODP-MI did not need additional reports and acceptd the concept that the daily, weekly, bimonthly, site summaries, prospectuses, and preliminary reports would be the same as required for NSF. These reports will be similar to those generated during ODP except that the weekly report will include a technical report.

***ACTION ITEM #5****:*
*Jack Baldauf to distribute a draft version of these reports to OPCOM for comments.*

Long Lead time management- See OPCOM timetable discussion—Item 8

Publications – See discussion under "Publications" --Item 10

**ESO ISSUES**

ACEX
Two different logging programs are being proposed for the ACEX expedition, wireline logging and memory logging. The Co-chiefs support the use of memory tool logging over wireline logging to increase time spent on coring operations (i.e., ensuring a complete stratigraphic section is recovered by drilling extra holes instead of logging). ESO is concerned about the cost of having wireline capabilities without ever using the tools. OPCOM discussed the issue of wireline vs memory logging. It was noted that the proposed memory logging technology is currently unproven and not calibrated in an IODP-type environment. In addition, as with the North Atlantic expeditions, the wireline logging program was part of the proposal that was ranked and scheduled. OPCOM decided that that the memory tool system was too new to IODP to be used as a primary system and that it should be first used for comparison with primary wireline logging system. OPCOM also noted that the actual logging program should be well-defined in the prospectus. Furthermore, changes to the logging program while at sea should be discussed by the scientific party, with decisions on how to proceed (wireline vs. memory) based on the data from the first site(s), core recovery, and the scientific and environmental conditions.

Tahiti
ESO noted that depending on the drilling system utilized for Tahiti operations, the core diameter could be larger than the standard IODP core diameter. OPCOM briefly discussed issues associated with larger (or smaller) core diameters (e.g., core processing, archiving, sample availability). In the end, ESO was requested to explore the various options (in conjunction with SCIMP) and provide that information to OPCOM for further discussion.

***ACTION ITEM #6:***
*ESO to provide OPCOM with issues/ramifications to downstream core processing and archiving associated with the use of core diameters different than standard IODP diameters. OPCOM Chair to ask SCIMP to address this issue at their next meeting.*

## 6) Scoping Groups

SPC Consensus items 04-03-16 and 04-03-17 asked OPCOM to determine the level of scoping necessary for NanTroSEIZE, CRISP, Indus Fan.

**Consensus 04-03-16:** The SPC approves the recommendation of the SSEPs to designate Proposal 603-CDP3 Nankai Trough Seismogenic Zone (NanTroSEIZE) and Proposal 537-CDP3 Costa Rica Seismogenesis Project (CRISP) as complex drilling projects (CDPs) and forwards them to the OPCOM to determine the required level of scoping activity and initiate that activity. We request a report from the OPCOM on scoping activities at the June 2004 SPC meeting. These CDP proposals should also be distributed to the SAS service panels for providing initial technical advice to the SSEPs and the SPC.

**SPC Consensus 04-03-17:** The SPC requests that the OPCOM determine the required level of scoping activity and initiate that activity for Proposal 595-Full3 Indus Fan and Murray Ridge.

In addition, OPCOM examined the level of scoping necessary at this time for the MSP Operations on Lomonosov Ridge (ACEX) and Tahiti.

Scoping was defined as project development/management above the level typically completed by the IOs (in conjunction with the Co-Chief scientists). A scoping group would consist of a number of individuals both inside of IODP and external to the program to review the implementation strategy and program goals. Given that definition, the level of scoping should be expedition-specific, some expeditions will need a higher level of scoping beyond what the IOs supply, others won't. Scoping groups would start with more emphasis on determining what will be necessary to meet the scientific objectives and progressively focus more and more on the specific drilling plans, risks, and technical requirement needed to meet these objectives. As such they must include some scientific representation from both the proponents group and the SAS. The initiation of scoping associated with a CDP is problematic. It is not clear when scoping should be an IODP-MI initiated activity or when it may be more appropriate that it be a SAS initiated (and national office funded).

***Action Item #7***
*The community needs a better definition of how what scoping is, when it should be implemented, how it should be implemented, who funds participants, etc. The OPCOM Chair to work with SPC chair, and IOs to develop policy and protocols to define the initiation and level of scoping with the SAS and within IODP. A draft of this policy/protocol will be presented at the next OPCOM meeting.*

In response to the SPC consensus items noted above, OPCOM next considered the level of scoping needed, if any, for several expeditions/proposals, including ACEX,Tahiti, NanTroSEIZE, CRISP, and Indus Fan.

<u>ACEX</u>
OPCOM determined that further oversight, if any, can by done with IODP-MI VP of Operations and that the Arctic Scoping Group can be dissolved.

NanTroSEIZE

OPCOM determined that a scoping group should be established for NanTroSEIZE (with the proviso that no IODP-MI funds are available for FY04 meetings). CDEX needs a peer review of the site survey hazard survey strategy to deal with both the engineering aspects and the implementation strategy. Suggested members include a CDEX Staff Scientist (project manager), Science Representatives (Proponent and SPC member), an IODP-MI Representative, a PPSP Representative and a member of the CDEX Operation Staff (Engineering Expertise). A first meeting could be held in conjunction with the upcoming PPSP meeting in June.

**ACTION ITEM #8**

The OPCOM Chair will work with SPC Chair, Proponent(s) and CDEX to establish a scoping group for NannoTSEIZE and determine the participants and develop a mandate.

Tahiti

OPCOM determined that the Tahiti proposal does not need a scoping group at this time. The level of scoping necessary for this proposal can be easily managed by the IO (ESO).

CRISP and Indus Fan

OPCOM determined that immediate action on these proposals is not necessary. The initiation and level of scoping should follow the overarching Scoping Group protocols that will be developed through OPCOM.

## 7) Expedition and Site Identifiers

SCIMP and SPC have recommended that (1) the prime identification of all IODP expeditions be a unique expedition name that describes the location and/or science objective and (2) Drilling sites should have a unique, sequential, platform- or expedition-based designation.

**SPC Consensus 04-03-19:** The designations of IODP expeditions are important for communicating the program results to the broad community as well as for use within the program. The SPC recommends that the prime identification of all IODP expeditions be a unique expedition name that describes the location and/or science objectives. Drilling sites should have a unique, sequential, platform- or expedition-based designation.

There are database issues, particularly with importing and searching legacy data, that must be addressed prior to implementing an alphanumeric ID system for IODP expeditions and sites. These issues are best addressed by small working group. The chair suggested that he lead this effort to developing an ID scheme that works from the rig floor, to the catwalk, throughout the shipboard labs, to curation and finally to publication. May 1, 2004 date was the suggested target date to resolve the issue.

***ACTION ITEM # 9***
*OPCOM Chair to work with IOs to determine the best strategy for implementing an expedition and site ID scheme that uses a unique name for the expedition identifier and a sequential platform-specific site identifier.*

## 8) OPCOM meeting timetable and long term-planning

OPCOM discussed mechanisms to increase the lead-time for expedition planning to at least 18 months. A new OPCOM/SPC meeting schedule was developed taking into consideration that (1) budgetary guidance is given by the lead agencies in January, (2) SSEP meetings are held in late Spring and Fall.

The following meeting scenario was developed.

| Month | YR (total months) | Committee | Action |
|---|---|---|---|
| Nov | YR0 (0) | SSEPs | Forward proposals to SPC |
| Mar | YR1 (4) | SPC | Rank proposals |
| May | YR1 (6) | OPCOM | Develop ship/platform schedules |
| Sep | YR1 (10) | SPC | Review ship/platform schedules |
| Oct | YR1 (11) | OPCOM | Revise ship/platform schedules |
| Dec | YR 1 (13) | SPPOC | Present schedule for approval |
| Jan | YR 2 (14) | Lead Agencies | Budget advice |
| Feb | YR 2 (15) | OPCOM•• | Finalize Program Plan |
| Oct | YR 2 (23) | New Fiscal Year | Start new fiscal year |

••meeting via email

In this scenario, the IOs would know the most likely scheduled expeditions approximately 18 months prior to start of FY, allowing for more robust scoping and realistic budgets.

This schedule requires the adjustment of the SPC and OPCOM meeting schedules. SPC meetings now only need to be held twice/year with the ranking of proposals at the March meeting. This new strategy could be started during the March 2005 SPC meeting where proposals would be ranked for FY2007.

A further discussion was held regarding FY06 scheduling scenarios and the best time for the next OPCOM meeting. FY06 ranking will be done at the June 06 SPC meeting. Thus the next OPCOM meeting (for FY06 scheduling) will be held either July 29-30$^{th}$ in Washington DC (at the IODP-MI offices) or on September 30 – 1 Oct (if the SPC#4 meeting is moved to October).

## 9) HSE documents

A draft overarching environmental document has been prepared by SAS members and the IOs **(Appendix 5**). NSF representatives suggested that the version reviewed at OPCOM is too detailed. PPSP will review and revise the document at its June 04 meeting. Most of the HSE issues are platform-related and thus the document should be forwarded to the national offices for review after June PPSP meeting.

## 10) IODP publications

The USIO and ESO plans for publication during FY05 (ie., prospectus, preliminary and expedition reports) were outlined for the committee. Further discussion centered on the role of the IOs and IODP-MI with respect to an integrated single entity vs. the individual IOs providing the production, publication, and distribution of expedition related reports. Numerous issues were raised, including (but not limited to) problems associated with separation of publications and database management, style guidance, cost efficiency, archiving, and quality.

Hans Christian Larsen will most likely convene a task force to focus the issues and determine the mechanism for production of expedition related reports (i.e., single IO/entity to complete all publications vs. multiple production and publication sites, some combination thereof).

CDEX reported on how it will produce technical reports and newsletters (see Appendix 6). The newsletter the currently produce has a production run 2500 copies (500 are in English). August 2004 is the next release date.

HCL reported that an IODP publication will be developed as a replacement to the JOIDES Journal. The content may be expanded to increase the community of readers (e.g., incorporated continental drilling results) The last JOIDES Journal will be distributed during summer of 2004 and the new IODP journal could be in production by early 2005.

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## 11) Sample, Data, and Obligations Policy

The Chair presented a portion of the IODP Sample, Data and Obligations Policy to OPCOM for input and guidance

> Section 7. Sample- and Data-Recipient Responsibilities
>
> All scientists who receive samples or conduct nondestructive analyses from cores after the moratorium are obligated to publish a paper in a peer-reviewed scientific journal or book that publishes in English, or submit a progress report to the IODP Curator outlining the status of the samples and/or the data no later than 36 months after receiving them. ……
>
> Those not meeting the above obligations will be restricted from obtaining future samples and data and may not be allowed to participate in future drilling projects. Obligations incurred during the Ocean Drilling Program (ODP) will be carried forward into the IODP.

In particular, the chair wanted guidance from the panel concerning monitoring and enforcement of the obligation policy. After some discussion it was agreed upon that IODP-MI is in the best position to monitor these obligations and enforcement most likely left to the national programs that fund scientific participation.

## 12) Site survey database

Hans Christian Larsen updated the committee on the current state of SSDB funding. He reported the contract for SSDP operation has been extended through Jan 2005. A task force will be formed to look at the issues for the next generation SSDB and generate an RFP for post 2005 operations. The timetable for this process would most likely (1) Sept 04 – generate RFP (2) October 2004 deadline for receipt of RFP response (3) Dec 04, Selection of subcontractor.

## 13) Other business

The IOs were asked what additional input they need from the SAS or from IODP-MI. Several suggestions for input included:

1) The IOs requested they be notified about meeting dates/times earlier in the process (e.g., when the chair of panel requests permission for a meeting). This lead-time would help IOs allocate personnel in a more efficient manner.

2) The USIO asked for IODP-MI to help coordinate SAS input about Phase 2 ship requirements in a similar manner that JOI worked with the JOIDES Advisory structure to coordinate input for the Conceptual Design Committee document.

***Action Item #10:***
*Janecek will work with USIO to coordinate SAS input for Phase 2 ship requirements.*

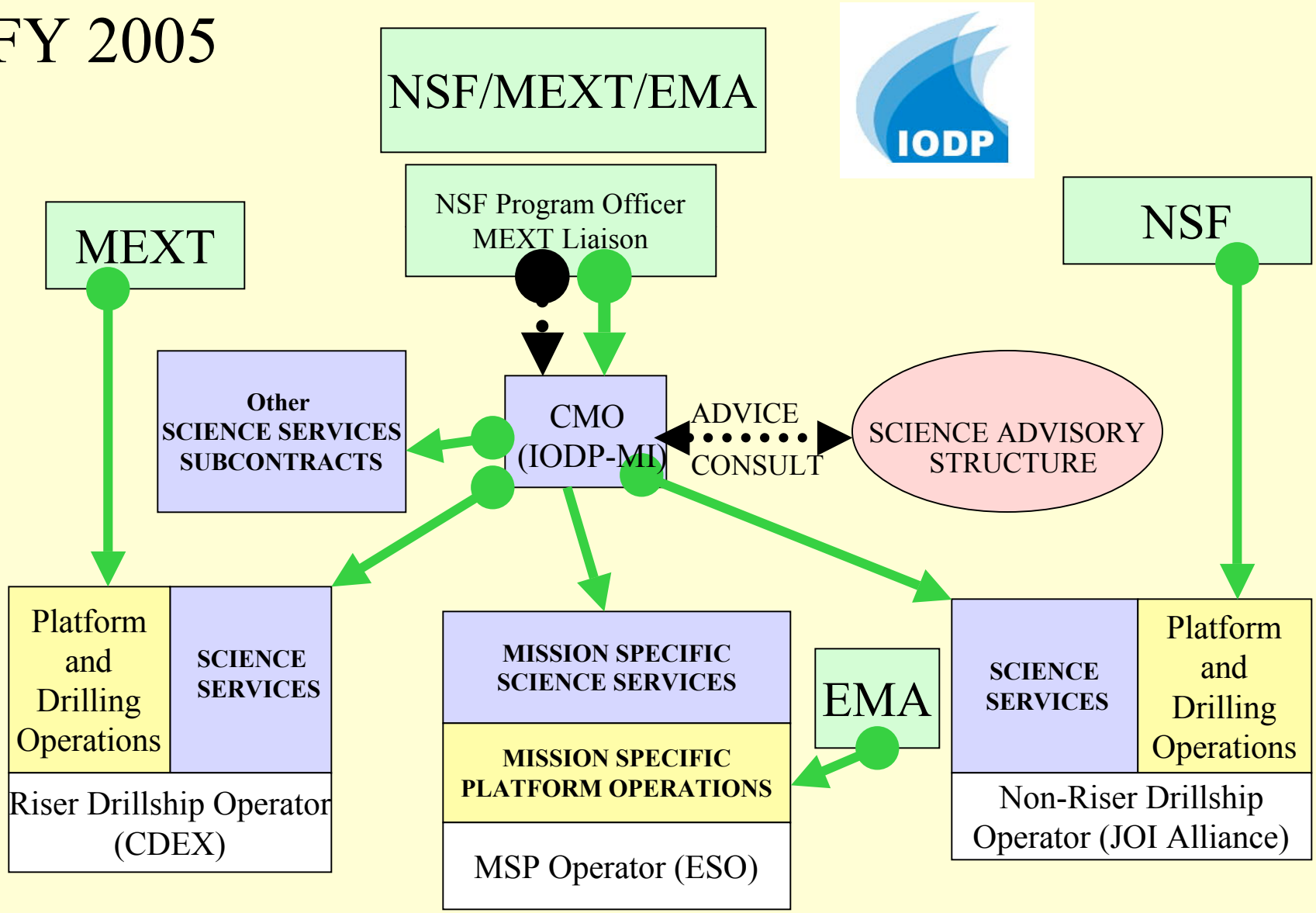
3) A request was made to insure that all meeting presentation information (e.g. PowerPoint presentations, etc) are archived for easy access and reference.

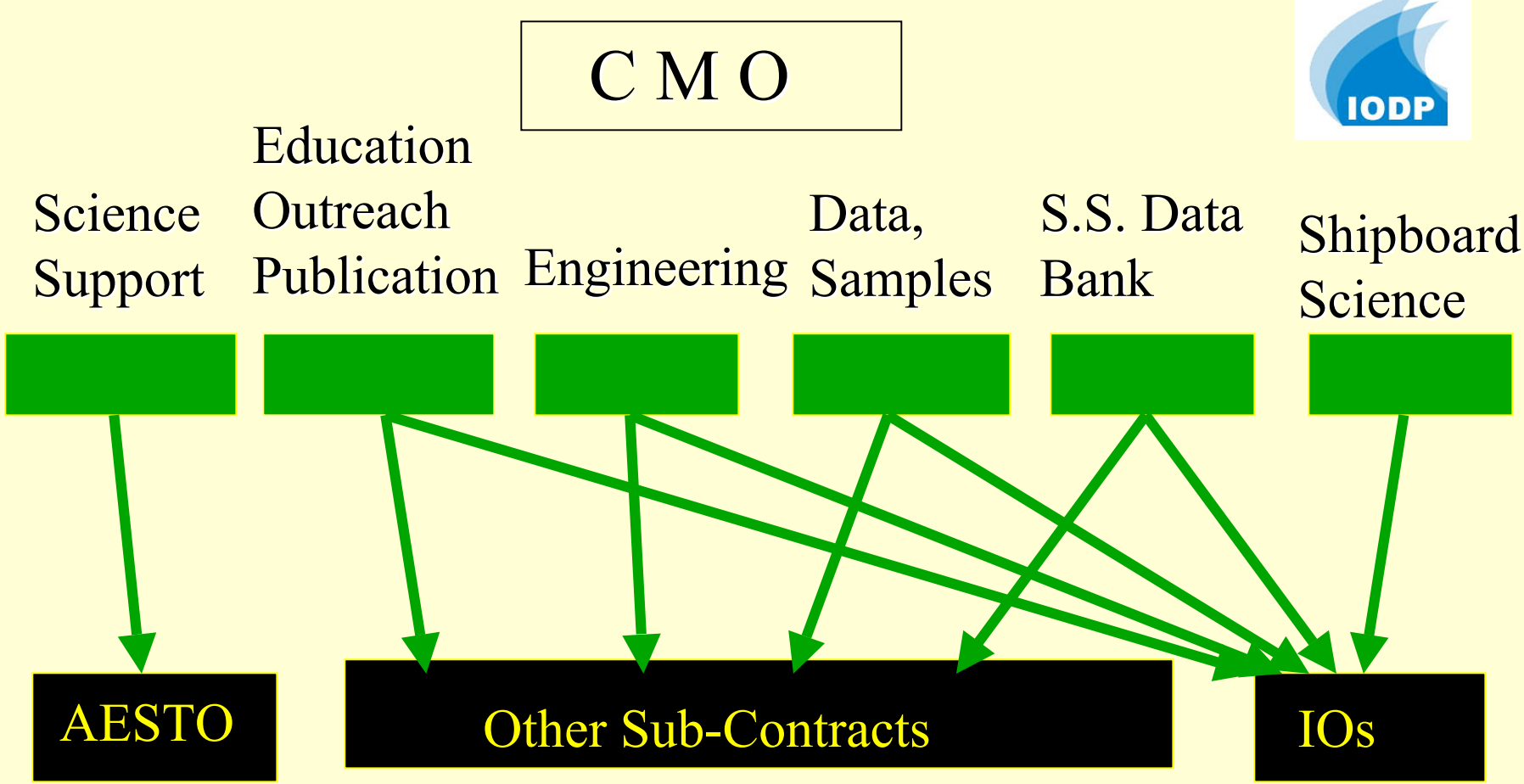
## APPENDICES

Appendix 1 IODP Wiring Diagrams
Appendix 2 CDEX report
Appendix 3 JOI Alliance report
Appendix 4 ESO report
Appendix 5 HSE Policy
Appendix 6 CDEX Publication report

# OPCOM #2
# APPENDIX 1

# FY 2005

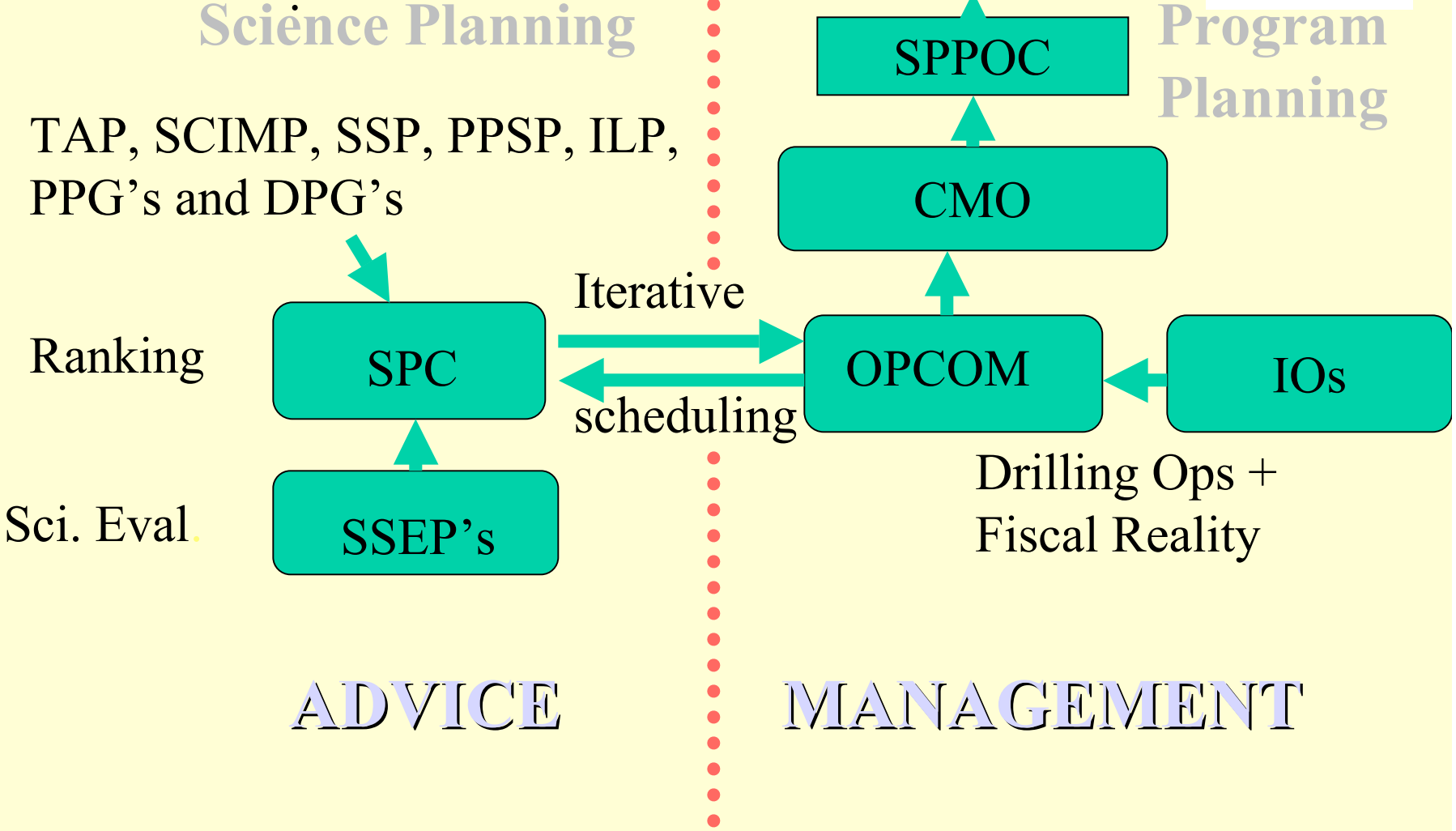

NSF/MEXT/EMA
IODP
NSF Program Officer
MEXT Liaison
MEXT
NSF
Other
SCIENCE SERVICES
SUBCONTRACTS
CMO
(IODP-MI)
ADVICE
CONSULT
SCIENCE ADVISORY
STRUCTURE
Platform
and
Drilling
Operations
SCIENCE
SERVICES
Riser Drillship Operator
(CDEX)
MISSION SPECIFIC
SCIENCE SERVICES
MISSION SPECIFIC
PLATFORM OPERATIONS
MSP Operator (ESO)
EMA
SCIENCE
SERVICES
Platform
and
Drilling
Operations
Non-Riser Drillship
Operator (JOI Alliance)


C M O
Science Support
Education Outreach Publication
Engineering
Data, Samples
S.S. Data Bank
Shipboard Science
AESTO
Other Sub-Contracts
IOs

**SOC Funds**

# *Functioning of OPCOM*

***Modified from Keir Becker***



# OPCOM #2
# APPENDIX 2

# CDEX Activities Report

## The 2nd OPCOM Meeting

**Washington, D.C., USA**
**15-16 April 2004**

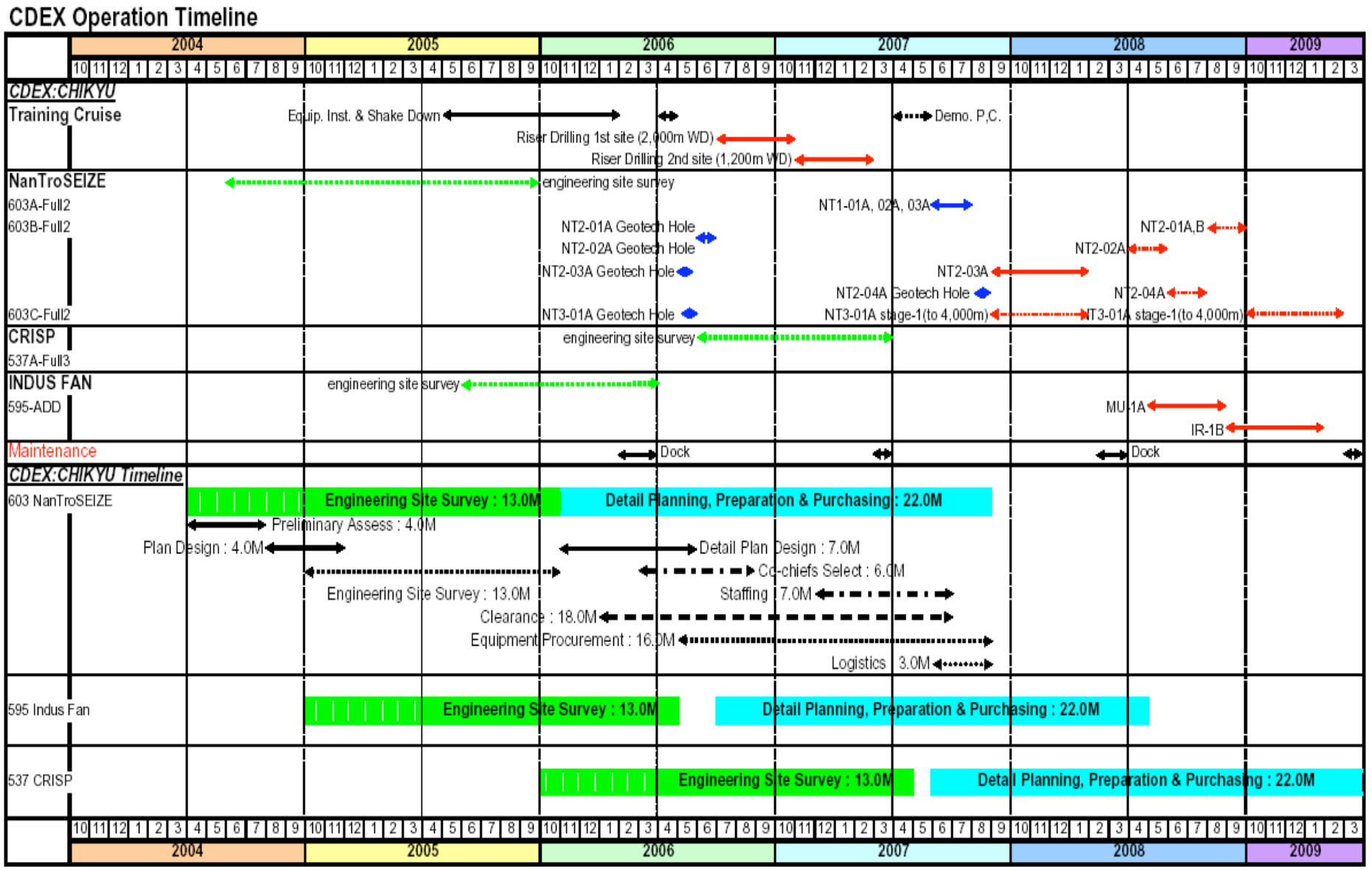
**Presented**
**by**
**S. Kuramoto & Y. Kawamura**

**Japan Agency for Marine-Earth Science and Technology (JAMSTEC)**
**– Center for Deep Earth Exploration (CDEX)**

# Topics

- Tentative 5 Years Planning
- Riser Drilling Planning Principle
- Training Cruise
- NanTroSEIZE, CRISP, Indus Fan
- Issues (related to Drilling Activities)

# Tentative 5 years Planning



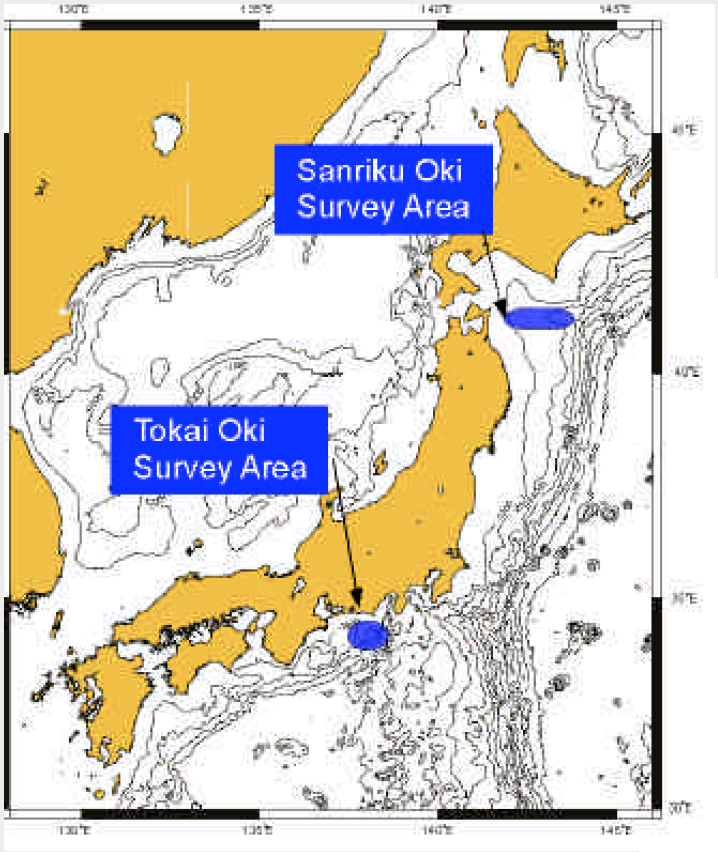
# Riser Drilling Planning Principle

- Riserless Section (from Sea floor down to 600m : 20” CSG Shoe)
  - Geotechnical Hole 8-1/2” w/wo LWD
    - Resistivity-Sonic-Density-Neutron : Standard
    - Magnetic Resonance, Seismic : Additional
  - Coring Hole 9-7/8” with 5-1/2”DP (4-1/8”I.D.)
    - 3-3/8” and/or 3-5/8” wireline logging tools
  - Main Hole 36” with 30”CSG down to 50m
  - Followed by 26” with 20”CSG down to 600m

# Riser Drilling Planning Principle cont.

- Riser Section (from 20”CSG Shoe down to TD)
  - 17-1/2” Hole with 13-3/8”CSG(from 20”CSG Shoe)
    - Coring Hole 9-7/8” : wireline coring
    - Wireline Logging in 9-7/8” Hole after coring
  - 12-1/4” Hole with 9-5/8”CSG (from 13-3/8”CSG Shoe)
    - Coring Hole 9-7/8” : wireline coring
    - Wireline Logging in 9-7/8” Hole after coring
  - 8-1/2” Hole w/wo 7”CSG (from 9-5/8”CSG Shoe)
    - 8-1/2” Hole Coring : wireline and/or conventional
    - Wireline Logging in 8-1/2” Hole after coring

# Training Cruise - Location



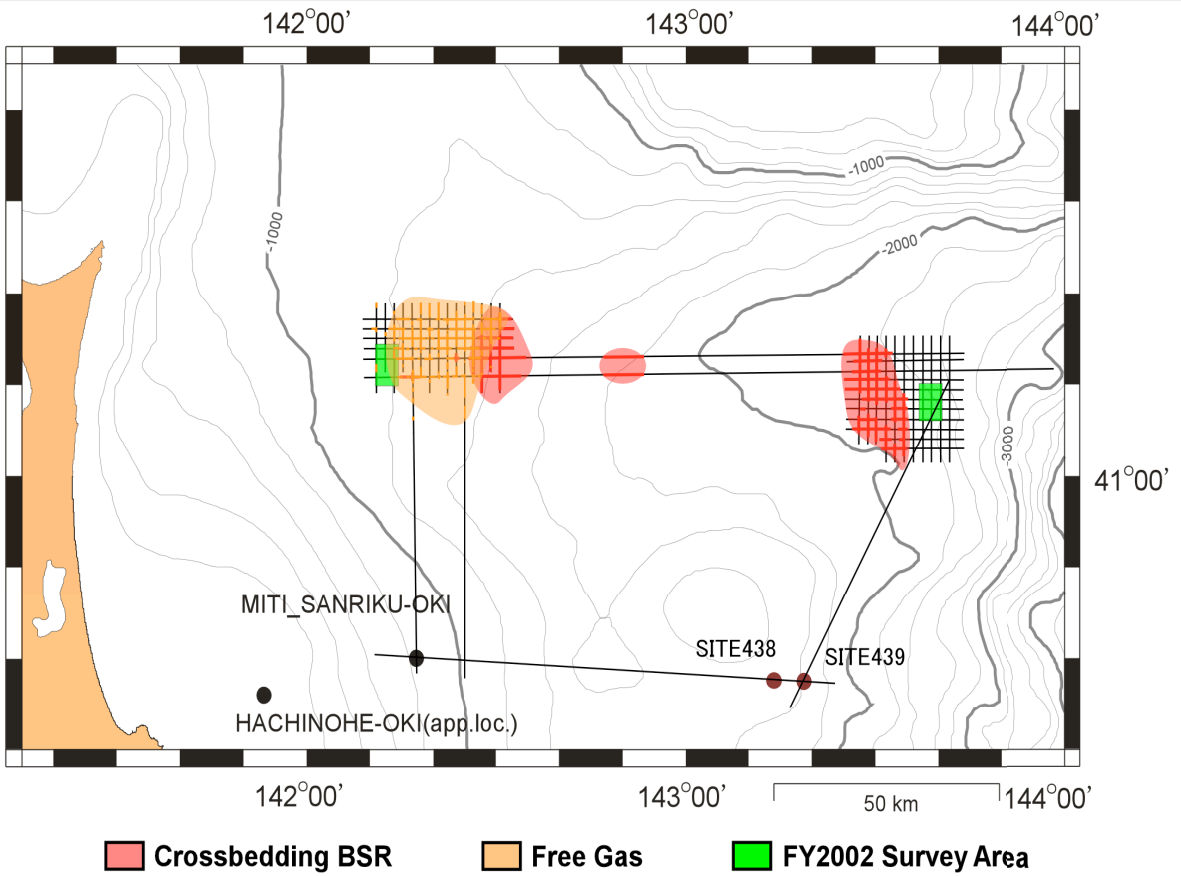
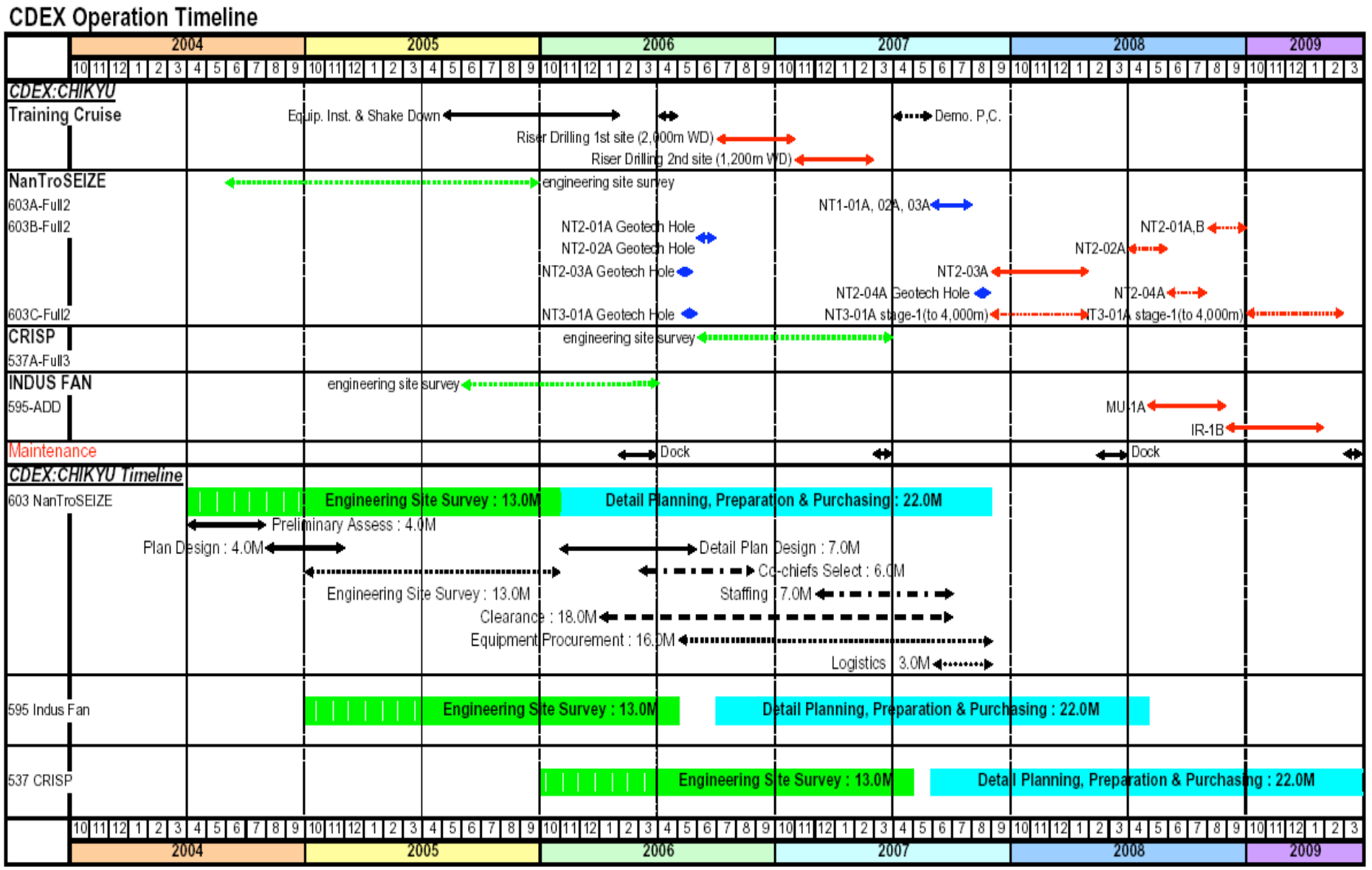




**Fig.-1 Seismic Survey Area off Eastern Shimokita Peninsula**

# Training Cruise

- Phase I : Shake Down
  - Integrated System Evaluation
    - Sub-Sea system : Riser, BOP, Mud/Pumping
- Phase II : Drilling Training
  - Riserless Drilling
    - Geotechnical Holes + coring (HPCS&ESCS)
    - Deep Water (up to 6,000m) drilling
  - Riser Drilling
    - Over 2,000m WD (penetration 3,000m) & PA
    - 1,200m WD (penetration 3,000m) & PA
    - Coring (RCB&SD-RCB), Wireline Logging

# Tentative 5 years Planning



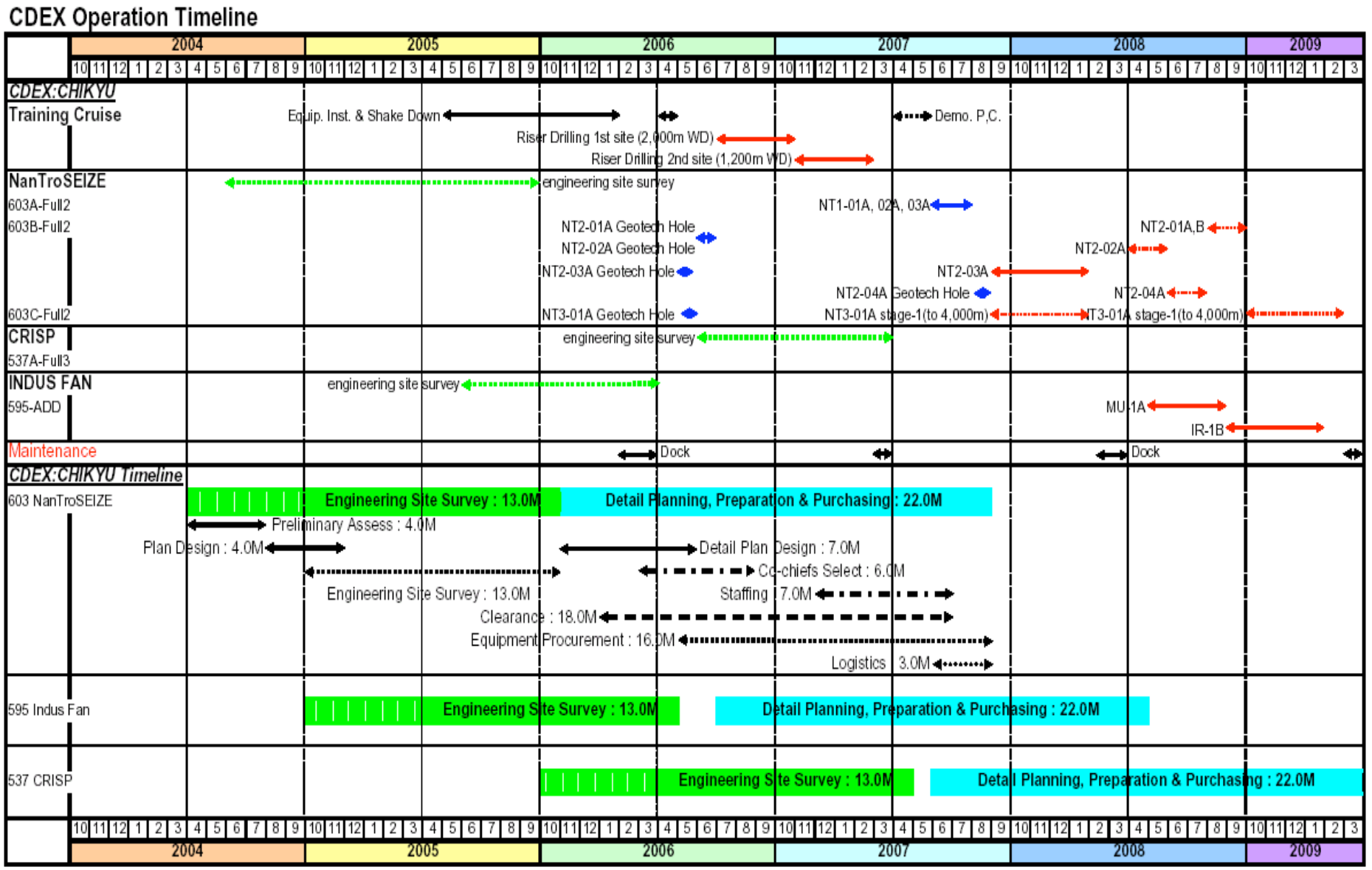
# NanTroSEIZE

- Engineering Site Survey :
  - Jun. 2004 – Sep. 2005 (FY05)
    - High Resolution Seismic
    - Current Survey
    - Side Scan Sonar, Sub Bottom Profiler
- Geotechnical Holes for Phase 2&3 :
  - May – Jun. 2006, Aug. 2007 (FY06)
    - Geotechnical Holes (Top Sec. Drillable or Not)
    - Top Section Coring (HPCS&ESCS)
- Phase 1 :
  - Jun. – Jul. 2007 (FY07)
    - Riserless Drilling

# NanTroSEIZE Cont.

- Phase 2 NT2-03A :
  - Sep. 2007 – Feb. 2008 (FY08)
    - *Kuroshio Current & Sea Bottom Profile*
    - *3rd Party Equipment (observatory)*
    - Contingency Plan : NT3-01A Stage 1(to 4,000m)
- Phase 2 NT2-01,02,04 :
  - FY10
    - As Contingency Plan : FY08
    - *Kuroshio Current & Sea Bottom Profile*
- Phase 3 NT3-01 :
  - FY10,11
    - *3rd Party Equipment (observatory)*

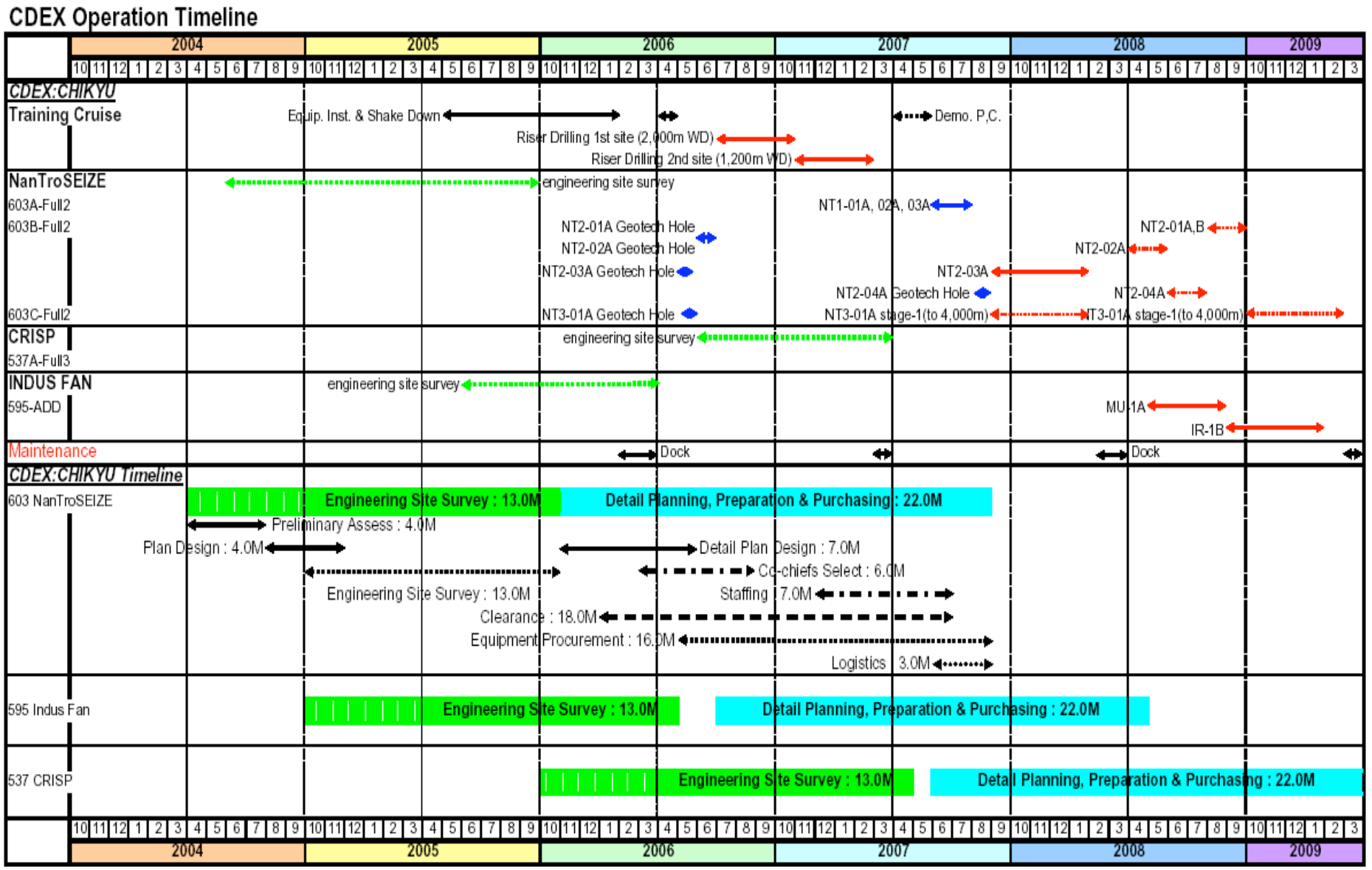
# Tentative 5 years Planning



# CRISP

- Engineering Site Survey :
  - Jun. 2006 – Mar. 2007 (FY06&07)
    - High Resolution Seismic
    - Current Survey
    - Side Scan Sonar, Sub Bottom Profiler
- Stage 1 :
  - FY07 by ex-JR?
    - Geotechnical Data for Stage 2
- Stage 2 :
  - FY09
    - *3rd Party Equipment (observatory)*

# Tentative 5 years Planning



# Indus Fan

- Engineering Site Survey :
  - Jun. 2005 – Mar. 2006 (FY05&06)
    - High Resolution Seismic
    - Current Survey
    - Side Scan Sonar, Sub Bottom Profiler
- MU-1A :
  - May – Aug. 2008 (FY08)
    - *Clearance for Drilling Activities*
- IR-1B :
  - Sep. 2008 – Jan. 2009 (FY09)
    - *Clearance for Drilling Activities*
    - Contingency Plan : NanTroSEIZE Phase 2

# Issues - Proposals

- Scoping Group :
  - Core Members
    - Chair : CDEX Staff Scientist (project manager)
    - Science Representatives (Proponent, SPC)
    - IODP-MI Representative
    - PPSP Representative
    - CDEX Operation Staffs (Engineering Expertise)
  - Implementations
    - Kick-off meeting : just after designation by SPC
    - Review Process : at PPSP
      - Initial Review : after preliminary assessment
      - 2nd Review : after engineering site survey
      - Final Review : with prospectus (9 months before Op.)

# Issues – Proposals cont.

- Staffing : Riser Operation
  - Project – Expeditions - Sessions
    - Project : based on Proposal
      - Project Manager : Staff Scientist
    - Expedition : based on Hole
      - Expedition Manager : Staff Scientist
      - Co-Chief Scientists
      - Science Party ( based on Expedition)
    - Session : based on time (two-months max.)
      - Staff Scientist
      - Co-Chief Scientists
      - Cruise Party (Scientists Group)

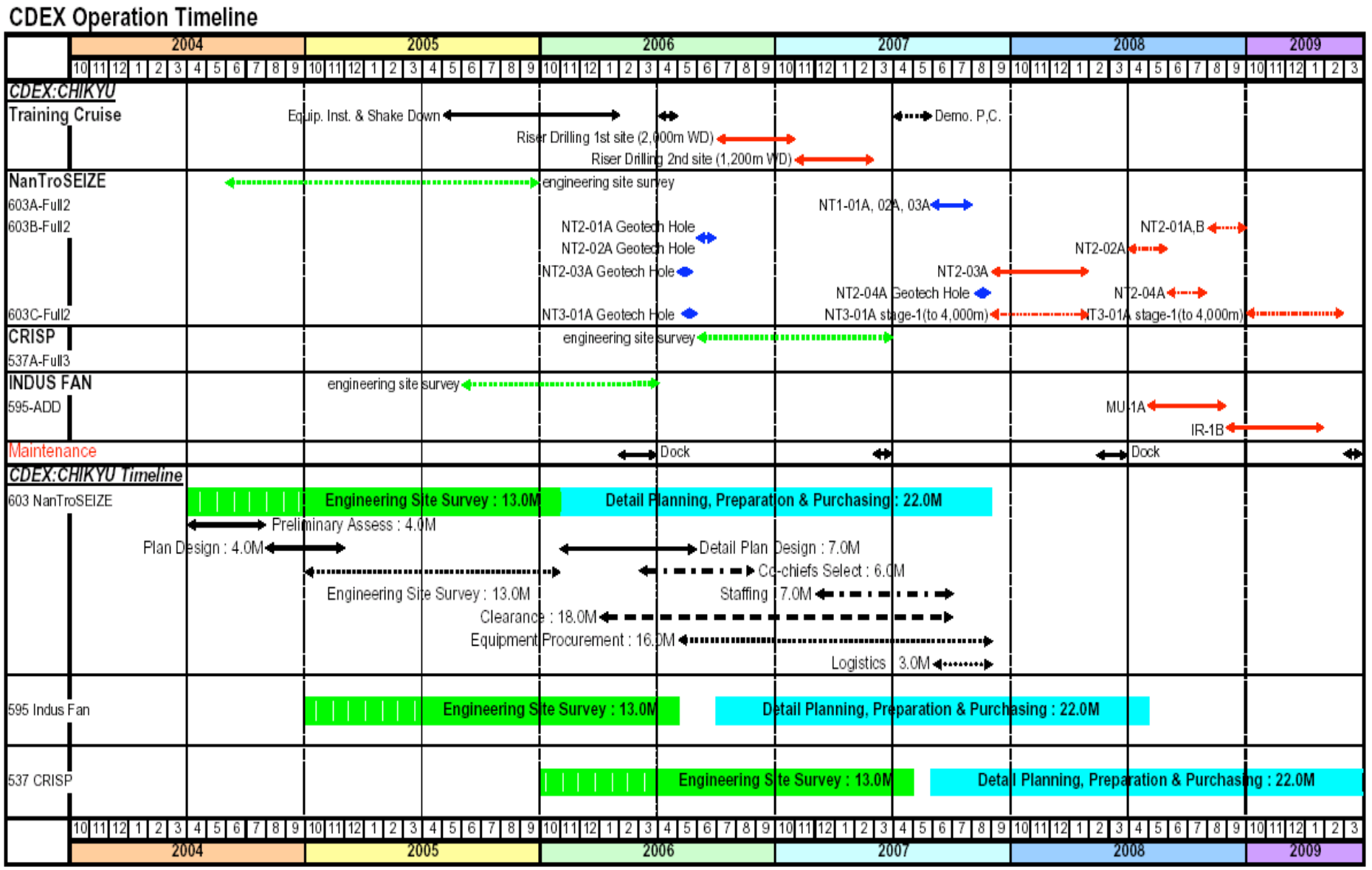
# Issues – Proposals cont.

- Operational Milestones : Riser Operation
  - Scoping Group Establishment
    - 42 months before operation (6 months)
      - Preliminary Assessment
      - Basic Planning
      - *Initial Review at PPSP*
  - Engineering Site Survey
    - 36 months before operation (13 months)
      - Geo-Hazard Identification
      - *2nd Review at PPSP*
        - *Operability Check : Drillable or Not*
        - *Expedition Approval*

# Issues – Proposals cont.

- Operational Milestones : Riser Operation
  - Detailed Expedition (Hole) Design
    - 22 months before operation (7 months)
      - Clearance
      - Equipment Procurement
  - Co-Chief Selection
    - 18 months before operation (6 months)
      - Finalize Expedition/Sessions
  - Staffing for Expedition
    - 9 months before operation (7 months)
  - Prospectus/Pre-meeting
    - 9 months before operation
    - *Final Review at PPSP*

# Tentative 5 years Planning



# OPCOM #2
# APPENDIX 3

# U.S. Implementing Organization (USIO)

# OPCOM Overview

April 2004

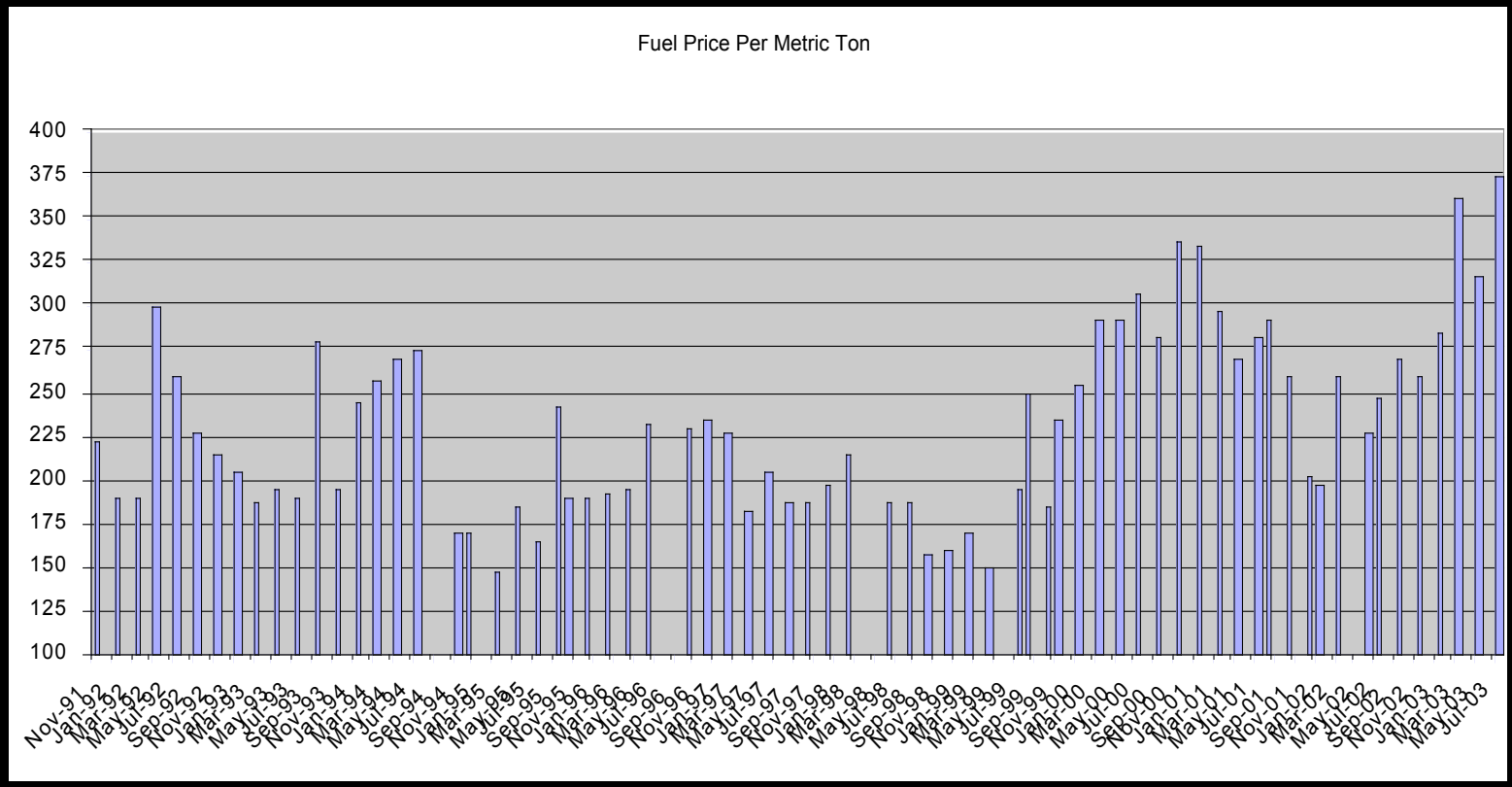
# USIO Phase 1 Operations

- TRANSOCEAN - Contract under negotiations
- Schlumberger - Contract under negotiations

- Acceptance and mobilization preparations underway

- Schedule will be finalized following OPCOM, about additional 8 days required to achieve 365-day program

- Significant budget risks due to lack of long-term planning and fluctuation in market forces




Nov '91

July '03

# Operations Schedule

Notes:
[1] Ship is scheduled to arrive 0600 hr on first day of port call.
[2] Initial cruise date reflects first day of port call; ship sails when ready.
[3] Ops = Operations (includes both on-site and between-site time).
[4] Actual start date needs to be finalized.
[5] Demobilization port is to be finalized.

# Adjusted Operational Schedule

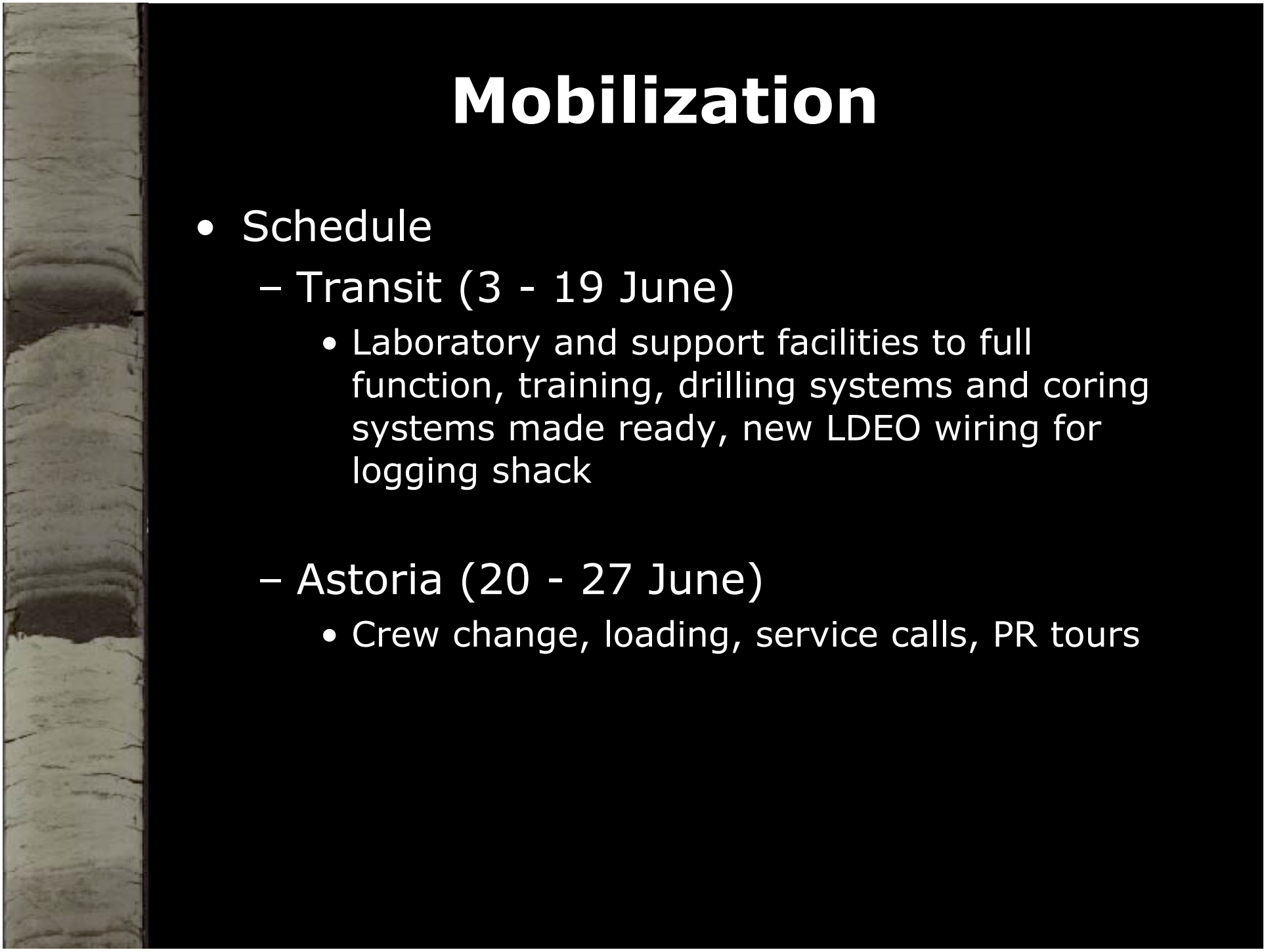
| | | |
|---|---|---|
| • Mobilization | (20 days) | (25 days) |
| • Ex1 | (69) | (56) |
| • Transit | (15) | (26) |
| • Ex2 | (47) | (53) |
| • Ex3 | (49) | (49) |
| • Ex4 | (54) | (54) |
| • Ex5 | (54) | (54) |
| • Demobilization | (40) | (40) |
| – Total | 348 | 357 |

# Potential Adjustments

- Transit
  - Cost Rica APL (3 days),
  - Balboa port call (2 days)
- Expedition 2
  - Site adjustments/weather contingency (4 days) (added)
- Expedition 3
  - ADCB (3 days)
- Expedition 5
  - New hole (1 day)
  - Weather contingency (2 days)

# Mobilization

- Goal
  - to reoccupy the *RV JOIDES Resolution* and prepare the labs for resumption of scientific coring in a cost/time effective manner
- Schedule
  - GAMAGORI (31 May - 2 June)
    - Acceptance, reoccupation, freight loading, port call work, service calls



# Mobilization

- Schedule
  - Transit (3 - 19 June)
    - Laboratory and support facilities to full function, training, drilling systems and coring systems made ready, new LDEO wiring for logging shack
  - Astoria (20 - 27 June)
    - Crew change, loading, service calls, PR tours

# USIO Expedition 1

- Proposed Strategy
  - Replace two existing CORKS (Sites 1026/ 1027); install new multi-level CORK-II in deep basement hole, log, packer pump test)

- Current Strategy
  - SR-1 site consists of two holes for shallow and deep objectives
    - Increase chance of success, avoid complex single hole operations, and allows monitoring and penetration through unstable rubble zone

# Expedition 1 Budget

- Cost delta of about -$221K
  - additional borehole installation (r/e cone, hangers, casing, CORK head, umbilical)
  - packer cost double LEG 205 costs (about $100K)
  - Umbilical required is more complex than planned
  - Increase definition of PI requirements
  - microbiological requirements, engineering requirements/review
- Cost reductions of about 68K
  - less complex single hole cementing requirements
  - utilization of Leg 196/205 umbilical

# Expedition 1 Time Differential

- Changes accommodated within allocated time
  - slight reduction in basement penetration
  - less involved cementing
  - conventional casing deployment vs. drilling casing in (reduce pipe trips)

# Expedition 1 Operational Issues

- Preparations continue
  - precruise meeting/MBARI meeting
- Microbiology
  - 5 microbiologist sailing, no isotope work planned, microbiology van is not being mobilized
- Clearances – Canadian (pending)
- PR activities – Astoria (pending)
- End cruise port call changed to Astoria
- VSP – Marine mammals

# Expedition 1 Staffing

- Co-Chiefs
  - Andy Fisher/Tetsuro Urabe
- Project Manager
  - Adam Klaus
- Expedition Superintendent
  - Mike Storms
- Engineers
  - Derryl Schroeder/Richard Dixon
- Logging Staff Scientist
  - Gerardo Iturrino

# Expedition 1 Staffing (cont.)

- Science party staffing
  - Completed
- Technical staffing underway
  - IO cross-training
    - 1 CDEX lab officer as part of USIO technical staff
    - Potential berth available for BGS technician
  - Teacher at Sea
    - 1 berth allocated, applications under review

# Transit

- Costa Rica APL Proposal
  - replace osmosamplers (3 days/$15K)
- Port call Balboa
  - Fueling (2 days, if fuel savings realized)
- End port modified
  - relocated from Bermuda to St. John's
    - Crew change in St. John's

# USIO Expeditions 2/5

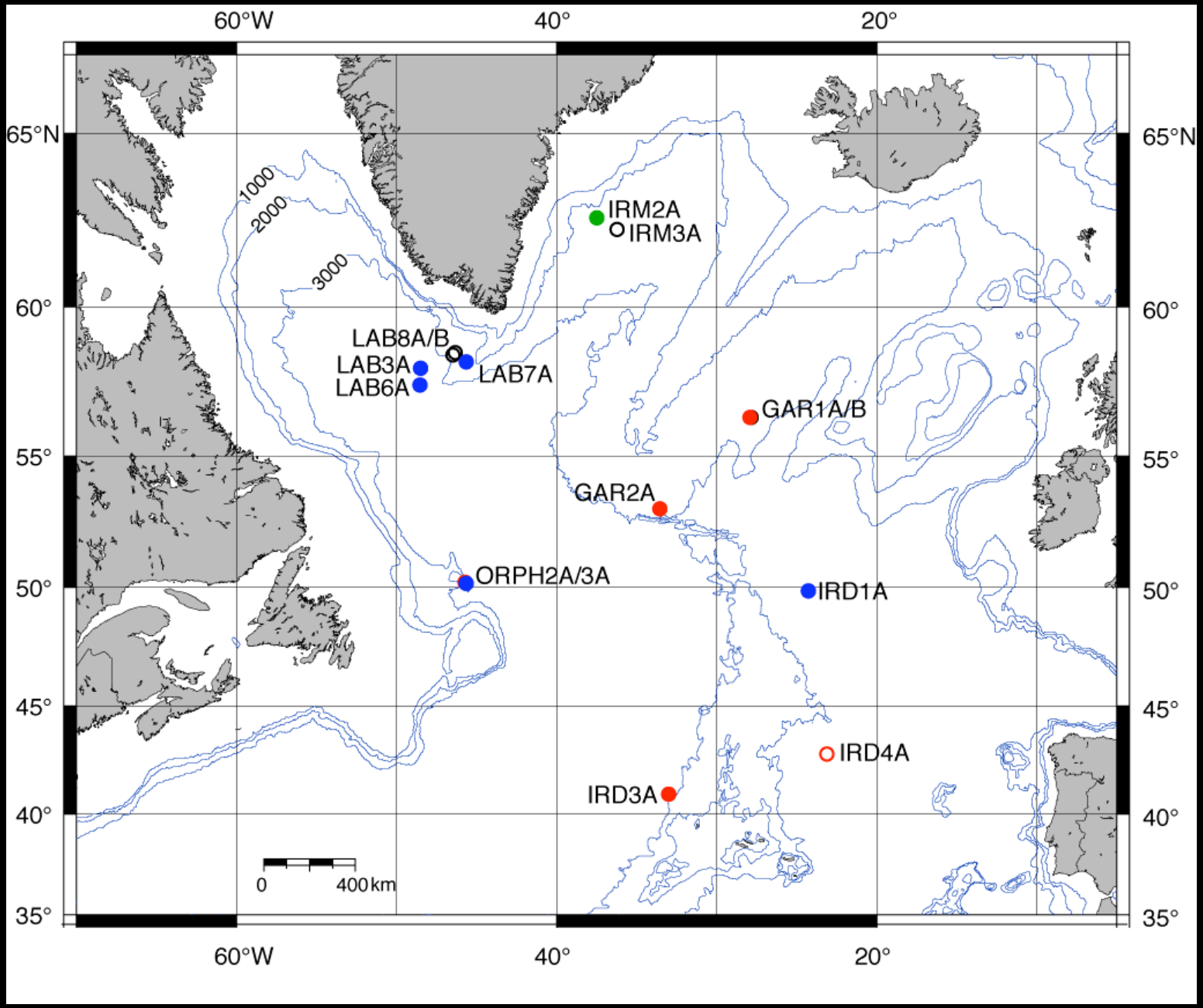
- Proposed Strategy
  - 3x APC refusal, XCB 35-400 mbsf, log 3 of 9 sites
- Current Strategy
  - 10 primary sites, 3x APC to 300 mbsf (i.e. complete stratigraphic section)
- Budget
  - Nonmagnetic core barrels ($25K to replenish/upgrade 4 system)
  - Time differential (adjustment for weather)

# USIO Expeditions 2/5 (cont.)

- Operational issues
  - Weather constraints - TRANSOCEAN requires support vessel for IRM site operations
    - 1 primary and 1 alternate site
    - cost $11K/day (excluding mobilization/ demobilization, time and fuel).
    - Aberdeen about 20 days ship time
    - total cost estimate = $347,192

# USIO Expeditions 2/5 (cont.)

- Operational issues (cont.)
  - Weather operations strategy
    - Operational strategy for weather management
      - Safety first
      - Provide weather service and sail locate expert
      - Review weather and commence POH at 50 kts
      - VSAT capability for weather maps
    - Developing alternate sites  to replace IRM locations


60°W
40°
20°
65°N
60°
55°
50°
45°
40°
35°
1000
2000
3000
IRM2A
IRM3A
LAB8A/B
LAB3A
LAB6A
LAB7A
GAR1A/B
GAR2A
ORPH2A/3A
IRD1A
IRD4A
IRD3A
0
400 km

# Expeditions 2/5 Operational Issues

- Clearances - Denmark/Greenland (pending); Norwegian (TBS)
- Logging program (Ex2/Ex5)
  - Consensus statement on merits of logging forwarded to Co-chiefs for comments
  - Comments to be discussed by JA operations team and OPCOM
- Proposed new hole (EX5)
  - Addendum for new hole submitted to OPCOM
    - Requires 4 days and about $80K compared to about $22K and 3 days for initial strategy

# Expeditions 2/5 Operational Issues (cont.)

- Joint science party definition
  - Combined precruise meeting
  - Shared access to samples and data - Note 5 month separation between cruises
  - Priority given to sailing scientists on each cruise
  - SAC will be coordinated
  - SAC/ERBs to encourage collaboration
  - Publications:
    - ER - Produced separately, published on WWW (w/links), combined hard copy possible
    - SR - depends format - could be combined

# Expeditions 2/5 Staffing

- Co-chiefs
  - Jim Channell/Toki Sato (Ex2);
  - Rudiger Stein, TBD (Ex5)
- Project Manager
  - Mitch Malone (Ex2); TBD (Ex5)
- Expedition Superintendent
  - Ron Grout (Ex2/Ex5)
- Lab Officer
  - Roy Davis (Ex2/Ex5)
- Logging Staff Scientists
  - Stuart Robinson (Ex2);
  - Brice Rea, Gilles Guerin (Ex5)
- Science party Staffing
  - Ex2 (April-May); Ex5 (Aug-Sept.)

# USIO Expeditions 3/4

- Proposed Strategy
  - Core to >400 mbsf through detachment fault and hanging wall
  - Core to >700 mbsf in peridotite beneath footwall of detachment fault (target high seismic velocity zone)
- Current Strategy
  - Ex3
    - Set HRRS in hanging wall basalt, core about 130 mbsf, case (if required)
    - Set HRRS in footwall peridotite, core about 130 mbsf, case (if required)
    - Deepen hanging wall hole through fault
  - Ex4
    - Deepen footwall hole

# USIO Expeditions 3/4 (cont.)

- Budget
  - Cost delta of about -$221K (Ex3) and a similar amount for EX4
    - SDS charging market rates for hammer rentals (-130K)
    - Casing (-80K)
- Time differential
  - no significant difference
- Staffing
  - Ex3/Ex4 (May-July)

# Expeditions 3/4 Staffing

- Co-Chiefs
  - Chris MacLeod/TBN (Ex3);
  - Donna Blackman/Yasuhiko Ohara (Ex4)
- Project Manager
  - TBD (Ex3); Jay Miller (Ex4)
- Expedition Superintendent
  - TBD (Ex3/Ex4)
- Lab Officer
  - Bill Mills (Ex3); Burney Hamlin (Ex4)
- Logging Staff Scientists
  - Florence Einaudi (Ex3); Heike Delius (Ex4)

# Expeditions 3/4 Operational Issues

- ADCB use on expeditions
  - Description
    - 6-3/4” BHA using diamond impregnated bits
    - Coring at high speed with low WOB purpose of test
  - Purpose of test
    - Run head-to-head comparison with RCB in same hard rock formations
    - Evaluate performance by varying rpm, flow rate and WOB

# Expeditions 3/4 Operational Issues (cont.)

- ADCB use on expeditions (cont.)
  - Advantage of deployment on Expeditions 3/4
    - Minimal impact on science by running in bottom of hole at end of RCB coring ( 2 days of Operation)
    - Prospect of superior core and recovery vs. RCB could benefit science
  - Strategy
    - RCB half core to 75 mbsf/ADCB to 130 mbsf, open hole (72 hrs)
    - RCB core to td, ADCB core additional cores (48 hrs)
    - Cost estimate $10K for shipping

# Expeditions 3/4

Ex3/4 - Joint science party

- Combined precruise meeting
- Shared access to samples and data - back to back cruises allow more seamless integration
- Integrated sampling plan
- Integrated ER and SR
- VSP/checkshot survey

JOIDES Resolution

Tentative Schedule as of April 5, 2004

| | | | | | |
|---|---|---|---|---|---|
| Japex Demobilization | 19-May-04 | 20-May-04 | 2.0 | | |
| In Gamagori off contract | 21-May-04 | 30-May-04 | 10.0 | | |
| | | | | | |
| Rig Acceptance | 31-May-04 | 31-May-04 | 0.5 | | |
| Loading in Japan | 01-Jun-04 | 02-Jun-04 | 2.0 | | |
| Mob to Astoria | 03-Jun-04 | 19-Jun-04 | 17.0 | 25 | 20.0 |
| Port Call Astoria | 20-Jun-04 | 26-Jun-04 | 7.0 | | |
| Crew Change Astoria | 27-Jun-04 | 27-Jun-04 | 1.0 | | |
| Transit to Site | 28-Jun-04 | 28-Jun-04 | 1.0 | | |
| Juan de Fuca Phase I | 29-Jun-04 | 19-Aug-04 | 52.0 | 52.0 | 52.0 |
| Transit to Astoria | 20-Aug-04 | 20-Aug-04 | 1.0 | 56.0 | 69 |
| Crew Change Astoria | 21-Aug-04 | 21-Aug-04 | 1.0 | | |
| Transit to APL | 22-Aug-04 | 01-Sep-04 | 11.0 | | |
| **APL Cost Rica** | **02-Sep-04** | **04-Sep-04** | **3.0** | | |
| Transit to Balboa | 05-Sep-04 | 06-Sep-04 | 2.0 | | |
| Port Call Balboa | 07-Sep-04 | 06-Sep-04 | 0.0 | | |
| Balboa to St Johns | 07-Sep-04 | 18-Sep-04 | 12.0 | 29 | 15 |
| St. Johns Port Call | 19-Sep-04 | 21-Sep-04 | 3.0 | | |
| Crew Change St. Johns | 22-Sep-04 | 22-Sep-04 | 1.0 | | |
| St John's portcall | 23-Sep-04 | 23-Sep-04 | 1.0 | | |
| Transit to Site | 24-Sep-04 | 25-Sep-04 | 2.0 | | |
| **North Atlantic 1** | **26-Sep-04** | **07-Nov-04** | **43.0** | 43.0 | 45 |
| Transit to AZORES | 08-Nov-04 | 10-Nov-04 | 3.0 | 53 | 47.0 |
| Azores Crew Change | 11-Nov-04 | 11-Nov-04 | 1.0 | | |
| Azores Port Call | 12-Nov-04 | 15-Nov-04 | 4.0 | | |
| Transit to Site | 16-Nov-04 | 18-Nov-04 | 3.5 | | |
| **Core 1** | **19-Nov-04** | **29-Dec-04** | **41.0** | **41** | 37.0 |
| Transit to Azores | 30-Dec-04 | 02-Jan-05 | 3.5 | **53** | 49.0 |
| **Crew Change Ponta Delgado** | **03-Jan-05** | **03-Jan-05** | **1.0** | | |
| Port Call Porta Delgado | 04-Jan-05 | 07-Jan-05 | 4.0 | | |
| Transit to Site | 08-Jan-05 | 11-Jan-05 | 4.0 | | |
| Core 2 | 12-Jan-05 | 22-Feb-05 | 42.0 | 42 | 41 |
| Transit to Azores | 23-Feb-05 | 25-Feb-05 | 3.0 | 54 | 54 |
| Crew Change Ponta Delgado | 26-Feb-05 | 26-Feb-05 | 1.0 | | |
| Port Call Porta Delgado | 27-Feb-05 | 02-Mar-05 | 4.0 | | |
| Transit to site | 03-Mar-05 | 04-Mar-05 | 2.0 | | |
| North Atlantic 2 | 05-Mar-05 | 18-Apr-05 | 45.0 | 45 | 34 |
| Transit to Iceland | 19-Apr-05 | 20-Apr-05 | 2.0 | 54 | 54 |
| Crew Change Reykjavik | 21-Apr-05 | 23-Apr-05 | 3.0 | | |
| Demobilization- transit | 24-Apr-05 | 08-May-05 | 15.0 | | |
| Demobilization | 09-May-05 | 30-May-05 | 22.0 | | |
| | | | 364.5 | | |

# Other Issues

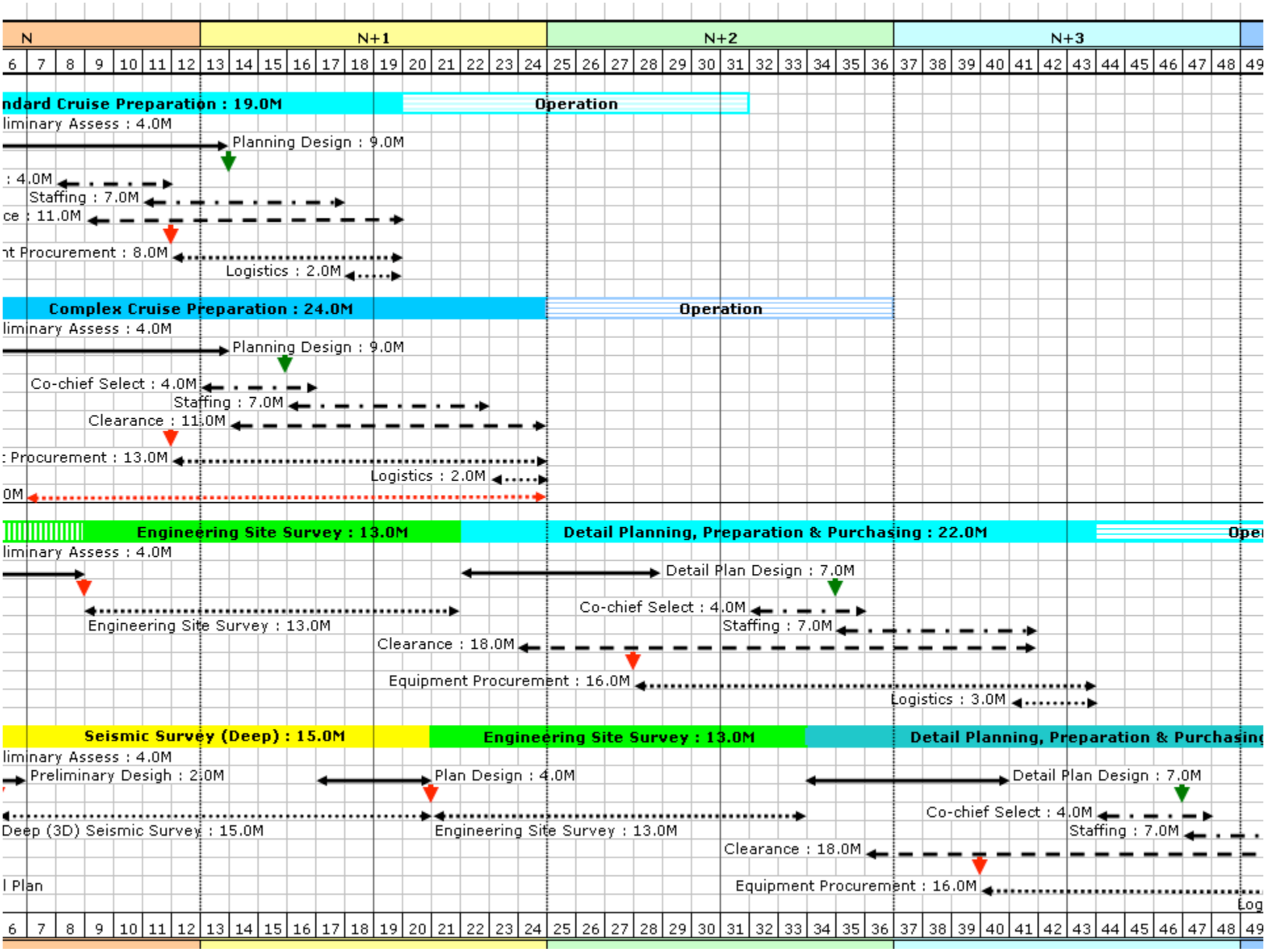
- Technical exchange
  - Currently developing protocol
    - Takamitsu Sugihara will sail on Ex1 as a member of the science support group (CDEX will pay travel/salary, USIO will pay room and board at sea)
    - BGS under discussion
- Phase 1 EA
  - 1985 ODP EIS update by M&E and LGL for Phase 1 EA
  - Draft document forwarded to NSF for review and comment
  - Final document will be completed prior to operations
  - NSF findings will dictate operational protocol for marine surveys and VSP activities

# Other Issues

- Marine Mammal Sight Survey Protocols
  - Safety zone will be established
  - Pre-seismic operation planning and mitigation strategy
  - Daytime/visible start up
  - Trained observers w/min. 1 hr. pre-survey observations
  - Mate has authority to alter vessel course/speed
  - Documentation of all encounters

# Other Issues

- GOM proposal
  - Hazard Survey completion strategy
- Operational procedures
  - Reports (daily, weekly, bimonthly)
  - Prospectus and preliminary reports
    - Contractual requirement for all IOs
    - Distribution requirements
    - Formal title of series
    - Citation format
  - Cruise questionnaire
  - Long lead operational planning
  - Specification of program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ndard Cruise Preparation : 19.0M
Operation
liminary Assess : 4.0M
Planning Design : 9.0M
: 4.0M
Staffing : 7.0M
ce : 11.0M
nt Procurement : 8.0M
Logistics : 2.0M
Complex Cruise Preparation : 24.0M
Operation
liminary Assess : 4.0M
Planning Design : 9.0M
Co-chief Select : 4.0M
Staffing : 7.0M
Clearance : 11.0M
: Procurement : 13.0M
Logistics : 2.0M
0M
Engineering Site Survey : 13.0M
Detail Planning, Preparation & Purchasing : 22.0M
liminary Assess : 4.0M
Detail Plan Design : 7.0M
Co-chief Select : 4.0M
Engineering Site Survey : 13.0M
Staffing : 7.0M
Clearance : 18.0M
Equipment Procurement : 16.0M
Logistics : 3.0M
Seismic Survey (Deep) : 15.0M
Engineering Site Survey : 13.0M
Detail Planning, Preparation & Purchasing
liminary Assess : 4.0M
Preliminary Desigh : 2.0M
Plan Design : 4.0M
Detail Plan Design : 7.0M
Co-chief Select : 4.0M
Deep (3D) Seismic Survey : 15.0M
Engineering Site Survey : 13.0M
Staffing : 7.0M
Clearance : 18.0M
l Plan
Equipment Procurement : 16.0M
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49

# JOI Alliance (JA) Phase 2 Activities: Future Plans

- Request IODP-MI to Coordinate SAS Input on Laboratory Design Plans (5/14/04)
- Hire MREFC Project Director at JOI (7/15/04)
- Issue RFP's for U.S. IODP-Phase 2 SODV and for Phase 2 Logging Subcontractor (7/15/04)
- Begin Evaluation of RFP Responses (10/4/04)
- Negotiation with Vessel Contractor (12/04 to 2/05)
- Begin Engineering Design Phase (EDP) for U.S. IODP-Phase 2 Scientific Ocean Drilling Vessel (SODV) and related systems (1/05)
- Establish Contract for U.S. IODP-Phase 2 SODV (2/05)
- Availability of MREFC funding for SODV project (2/05)

| ID | Task Name | Duration |
|---|---|---|
| 1 | Initiate IODP | 0 days |
| 2 | Prepare Proj Exec Plan | 3 emons |
| 3 | **Technology Innovation** | **496 days** |
| 4 | JA Define Potential Lab Upgrades | 16 ewks |
| 5 | Community/NSF Input on Labs | 40 ewks |
| 6 | Set up & Test Lab Eqmt | 43 ewks |
| 7 | **Market Survey Drilling Equipment** | **120 days** |
| 8 | Issued Market Survey | 0 days |
| 9 | Drilling Eqmt Vendors Respond | 11.8 ewks |
| 10 | Vendors Submit Market Survey Response | 0 days |
| 11 | Review Eqmt Vendor responses | 12 ewks |
| 12 | **Invitation to Tender for Drillship** | **108 days** |
| 13 | ***Issued Invitation to Tender (ITT)*** | 0 ewks |
| 14 | Drilling Contractors (DC) Respond | 13.2 ewks |
| 15 | Drilling Contractors Submit ITT Response | 0 days |
| 16 | Review DC ITT response | 8 ewks |
| 17 | **RFP for Drillship** | **284 days** |
| 18 | Prepare RFP & NSF Interface | 9 ewks |
| 19 | ***Window to Issue RFP to DC*** | 4 ewks |
| 20 | Drilling Contractors (DC) Prepare Response | 12 ewks |
| 21 | Review RFP & Inspect Drillships | 8 ewks |
| 22 | NSF & Community Interface | 10 wks |
| 23 | ***Window for Drilling Contract Negotiations*** | 10 ewks |
| 24 | **Target for Signed Drillship Contract** | 0 days |
| 25 | Science Community Briefings | 3 emons |
| 26 | **RFP for Logging Subcontractor** | **310 days** |
| 27 | Prepare RFP & NSF Interface | 10 ewks |
| 28 | Logging Subcontractors Prepare Response | 8 ewks |
| 29 | Review RFP | 8 ewks |
| 30 | NSF & Community Interface | 18 ewks |
| 31 | **Target for Signing Logging Subcontract** | 0 days |
| 32 | Procure Long Lead Logging Eqmt | 16 ewks |
| 33 | **Drillship Implementation Strategy** | **381 days** |
| 34 | ***Window forDrillship Mod Negotiations*** | 10 ewks |
| 35 | DC Engineer Design Phase (EDP) | 26 ewks |
| 36 | Develop Drillship Acceptance Plan (VAP) | 16 ewks |
| 37 | Shipyard Bids & Negotiate | 12 ewks |
| 38 | **Drilling Contractor Signs Shipyard Contract** | 0 days |
| 39 | Procure Long Lead Vendor Equipment | 16 wks |
| 40 | ***Window for Shipyard Drillship Conversion*** | 26 ewks |
| 41 | Outfit Drillship Labs | 8 ewks |
| 42 | ***Window for Sea Trials*** | 16 ewks |

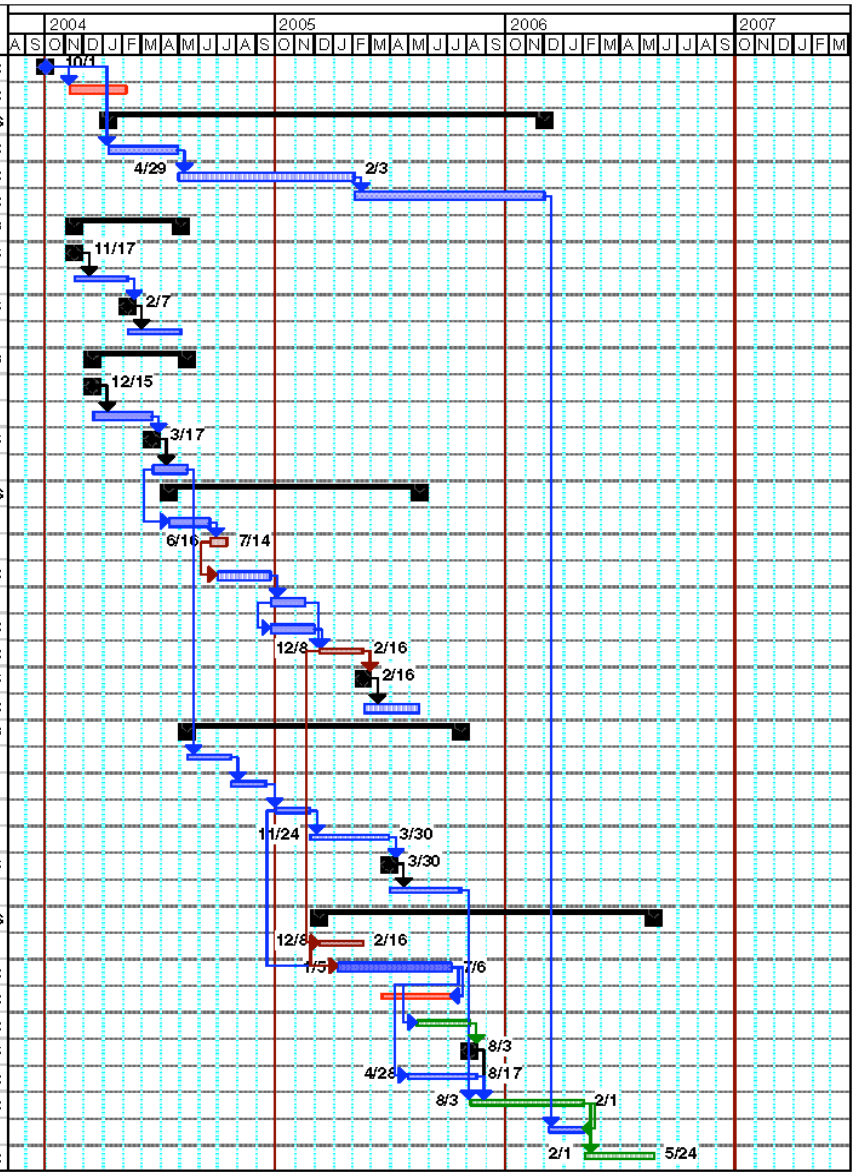


**Figure 7. Timeline for Scientific Ocean Drilling Vessel Acquisition, Conversion, Acceptance and Commissioning Process**

# JOI Alliance Proposed Outreach to Stakeholders

- Element 1 - Invite IMI to coordinate an IODP SAS process to provide comments on the design document(s) for the onboard science capability of the U.S. SODV. The vision here is that the design document(s) would be forwarded to the appropriate SAS panels for review; comments would be submitted to IODP-MI, who would integrate these comments into a single SAS assessment provided to the JOI Alliance.

- Element 2 - Invite selected members of the science community to review and provide comments on the ITT responses submitted by contractors, in conjunction with the JOI Alliance Platform Team, in order to prepare the U.S. SODV Request for Proposals (RFP). Participants in this activity will be required to sign a confidentiality agreement.

- Element 3 - Invite selected individuals from USSAC and/or SCIMP to serve as community representatives on each of the design teams tasked with planning the onboard science capability for the U.S. SODV

## JOI Alliance Proposed Outreach to Stakeholders

- Element 4 - Introduce the community to the MREFC web site and encourage their use of this site to become informed about U.S. IODP-Phase 2 activities. The USIO will also provide updates via community list servers, if and when appropriate.

- Element 5 - Hold, as appropriate, "town meetings" and/or provide updates at appropriate SAS or USSAC panel meetings to ensure community awareness about the U.S. SODV planning process and to gather community input on issues.

- Element 6 - Invite the USSAC chair, or delegate to serve as a nonvoting member on the U.S. Scientific Ocean Drilling Vessel (SODV) selection team. Note that individuals on this team will be required to sign a confidentiality agreement.

# OPCOM #2
# APPENDIX 4

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Universität Bremen
rcom
marum

# OPCOM

## 15-16 April 2004, Washington

# ESO Operator Report


**Dan Evans**

ESO Science Manager


ESO
ECORD Science Operator

ECORD
European Consortium for Ocean Research Drilling

# ACEX

- NIB contract
- Meeting on Oden – ice management and database
- Contract meeting with EMA
- Measurements plan – awaiting SciMP
- Drillpipe and containers
- Piston corer

- Wireline logging issue

ECORD Science Operator

# Tahiti

- Acting on March decision by SPC
- No certainty of vessel
- Probably May-June
- C $4m available as POCs
- Use of shore-based facility?
- Environmemtal issues with SPC ad-hoc committee
- Co-chiefs – awaiting SPC
- Probably meeting with proponent 1st week in May

- Core size issue

ECORD Science Operator

# OPCOM #2
# APPENDIX 5

# IODP Environmental principles

As a community exploring the ocean environment, we recognize that we all carry a responsibility to ensure that our activities have a negligible impact. We will therefore conform to the highest levels of environmental sensitivity: All members of the IODP ocean science community will familiarise themselves with the principles outlined below and-will ensure that they are adhered to by both themselves and others. These principles will enhance awareness of environmental issues in members of the community and, as such, will constitute a basis for IODP's expectations of scientific staff, particularly those participating in drilling operations. These principles define the standards that IODP operational organizations and contractors are committed to adhere to fully.

The implementing organizations (CDEX, ESO, and JA) and their contractors are responsible and accountable for drilling and related activities to their funding organizations, the MEXT, ECORD and NSF, as well as to the international public.

**Protection of marine life and the environment**

- IODP will minimize the release of any substances into the marine environment that could cause damage to marine organisms.
- When operating, IODP seismic data will be collected according to the established guidelines for seismic operations to minimize impact on marine mammals.
- The operators will obtain all required operating permits.
- A review of risks will be conducted by IODP's Pollution Prevention and Safety Panel and by the contracted operators for all drilling operations.
- IODP will act to minimize any and all identified risks through appropriate control measures.

**Disposal of waste materials and restitution of the environment**

- When operating within national jurisdictions IODP will follow those nations requirements for the handling of drilling by-products.
- IODP will calculate the amount of material released to the sea floor.
- All other materials will be disposed of in accordance with the applicable international standards.

**Storage and curation of potentially harmful substances/organisms**

- Samples will be transported and stored in such a way as to prevent contamination of the environment.

**Keeping the public informed of our activities**

- The public will be kept informed of operational activities as appropriate.

# OPCOM #2
# APPENDIX 6

# Proposal of CDEX Publication


S. Kuramoto

&

Y. Kawamura

# CDEX Technical Report

- Publish engineering site survey results
  - Seismic profiles
  - Side Scan Sonar Image
  - Bathymetry
  - Current
  - Cores
- Simply shows the data
- Publish in English (Web and Prints)
- Twice a year

# CDEX Technical Report
## (NanTroSEIZE as a 1st volume)

- **Contents**
  - **Introduction**
    - Index Map, Bathymetry, Tectonics
  - **Method**
    - Acquisition, Configurations, Processing
  - **Data**
    - Navigation, Seismic Profiles
  - **Remarks**
    - Simple interpretation

# CDEX News Letter

- **Public Relation & Outreach**
  - **Chikyu News (Construction, Technology, etc)**
  - **Introduce IODP Sciences**
  - **Event Information**
- **Publish in English (Web and Prints)**
- **Twice a year**

Work w/ AESTO

# Publication Schedule

- ~Jul. 04
  - NanTroSEIZE Technical Report – 1
- ~Feb. 05
  - Off Shimokita (Training Cruise Sites) Technical Report
- ~ Aug. 04
  - News Letter vol. 1
- ~ Mar. 05
  - News Letter vol. 2

# Proposal for IODP Publication

- **Initial Results**
- **Scientific Results (SciMP's Recommendation)**
- **Technical Report**
- **IODP Journal (News Letter)**