

**8th Meeting of the
Science Steering and Evaluation Panel
May 29-June 1, 2007
Rice University, Houston, Texas, U.S.A**

EXECUTIVE SUMMARY (v5)

1. Joint Session, Reports

1.1. Introduction of panel members, liaisons, and guests.

1.2. Status of IODP

Manik Talwani addressed all attendees and summarized the status of funding and operations with IODP.

1.3. Opening remarks by local host

Julia Morgan welcomed attendees and summarized logistics.

1.4. Approval of last SSEP meeting minutes

SSEP Consensus 0705-1: The SSEP approves the minutes of its 7th meeting on 13-16 November 2007, Sapporo, Japan.
--

1.5. Approval of SSEP meeting agenda

SSEP Consensus 0705-2: The SSEP approves the revised agenda of their 8th meeting on May 29-June 1 in Houston, Texas.

1.6. Introduction to meeting organization

Barbara John briefly reviewed the meeting agenda and described how the meeting would be organized.

1.7. SPC Report

Keir Becker reported on outcomes of the 9th meeting of the Science Planning Committee, which was held in Osaka, Japan, March 4-7, 2007.

Becker reported information from the Hotspot DPG meeting held in Honolulu, Hawaii, January 12-13, 2007.

1.8. SSP Report

Dale Sawyer reported on outcomes of the 8th meeting of the Site Survey Panel, held February 20-22, 2007 in San Diego, Calif., USA.

1.9. USIO Report (United States Implementing Organization)

Jay Miller reported on personal changes and operational activities of the United States Implementing Organization (JOI Alliance), and SODV update.

1.10. CDEX Report (Japan Implementing Organization)

Yusuke Kubo reported on Chikyu test cruises and the Chikyu schedule.

1.11. EDP Report (Engineering Development Panel)

Bill Ussler (EDP liaison) provided an overview of existing technologies and engineering development plans, as requested by the SSEP in its last meeting.

1.12. IODP-MI Report

Nobu Eguchi reported on activities at IODP-MI including SAS meeting schedule, proposal submission statistics, possible SSEP recommendations, workshop update, SSEP rotations, and personnel changes. Greg Myers presented an IODP engineering update.

1.13. MS PHD'S Program

Charna Meth introduced JOI's partnership with the Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD's) Professional Development Program, as a mechanism to encourage minority students to explore and pursue careers in the ocean sciences.

1.14. Report on new tools and technologies

Chris del Campo (Schlumberger) reported on new tools being developed, followed by questions.

2. Meeting Overview

2.1. Reviewing process

Rüdiger Stein reviewed the SSEP mandate, conflict-of-interest rules, watchdog responsibilities, organization and objectives of breakout sessions, the purpose and content of watchdog reports during general sessions, the content of final reviews for proposals forwarded to SPC, procedures for rejecting (deactivating) proposals, and 5 star grouping system.

2.2. Mission concept review

Mike Underwood gave an introduction to the Mission Concept, and outlined the SSEP's role in Mission implementation, the goals and definitions of missions, the review mechanism, and SSEP's evaluation responsibilities.

As outlined, the SSEP is charged to recommend to SPC if Mission Proposals warrant Mission designation based on their definition as 1) intellectually integrated and coordinated drilling strategy, 2) originating from the scientific community, 3) address a significant aspect of an IODP Science Plan theme over an extended period, and 4) merits **urgent** promotion in order to achieve overall IODP program goals.

3. Breakout Sessions

A total of 35 proposals were reviewed during the meeting that include new external reviews available for 2 proposals. Panel members were subdivided into three breakout sessions for detailed discussions of the proposals: Breakout Session 1: Faults/Fluids (chaired by Rüdiger Stein); Breakout Session 2: Paleoclimate/oceanography (chaired by Ryuji Tada); Breakout Session 3: Solid Earth/Petrology (chaired by Barbara John).

The conflict of interest rules and confidentiality requirements were respected during the entire review procedure (breakout sessions, general sessions, and grouping). The course of action regarding each of the 35 proposals reviewed during the Houston meeting was achieved by consensus of the full panel. The dispositions are as follows:

Pre-Proposal: request Pre2 Proposal = 2 Pre-Proposal: request Full Proposals = 1 Full Proposal: forward to SPC = 2 APL: forward to SPC = 1 Full Proposal: forward to SPC for CDP approval = 2 Full Proposal: send for External Review = 5 Full Proposal no action = 1 (special case – see below)
Full Proposal: request revision = 11 Full Proposal: deactivate/request new submission = 3 Pre Proposal: deactivate/request new submission = 2 APL: deactivate/request new submission = 2 Mission proposal: evaluated = 3

A qualitative grouping was assigned to the two proposals forwarded to the SPC using the revised 5-star scale. Each grouping was obtained by consensus of the full panel.

669-Full 2 went out for external review following the November 2006 SSEP meeting in Sapporo. The SSEP received a PRL to the review in November, but no response to external reviews. The proponents indicated in March 2007 that they plan to submit a revised Full3 for the October 2007 deadline. The SSEP therefore did not review the existing proposal (669-Full2), and no action was taken.

4. Discussion of Mission proposals

Three Mission proposals (713-MP Mission Monsoon, 719-MP Mission Moho, 720-MP Mission Birth of Oceans) were submitted by the deadline to be considered at the SSEP meeting. The SSEP was charged to recommend to SPC if Mission Proposals warrant Mission designation based on their definition as 1) intellectually integrated and coordinated drilling strategy, 2) originating from the scientific community, 3) address a significant aspect of an IODP Science Plan theme over an extended period, and 4) merits **urgent** promotion in order to achieve overall IODP program goals. Breakout group discussions on Mission proposals were led by 5 assigned watchdogs and followed the review procedure similar to regular drilling proposals except the evaluation step which focused on whether the proposals satisfied the four criteria required to satisfy Mission designation. In the joint session discussion, the three mission proposals were evaluated again based on the Mission designation criteria to assure the same criteria were applied to all the three proposals.

5. Discussions and recommendations

5.1 Recommendation related to 707-Full2 (Sagami Bay Seismic Monitoring)

The SSEP recognizes 707-Full2 (Sagami Bay Seismic Monitoring) as a very important proposal, addressing key seismic hazards in heavily populated area case. The proposal as written by Kobayashi and 34 other proponents for the Kanto asperity, is identified as an umbrella proposal for a CDP. This is not stated specifically but implied. Previous review confirmed importance of the scientific objectives, and relevance to the ISP (solid earth cycles). The SSEP therefore forwards the proposal to SPC for designation as a CDP for prompt approval, with very strong support. The full panel agreed to the following recommendation by consensus:

SSEP Recommendation 0705-3: SSEP recommends that Proposal 707-Full2, “**Kanto asperity project: Geological and geophysical characterization of the history and present behavior of the earthquake cycle**”, be recognized as a Complex Drilling Proposal (CDP) associated with component proposals presently assigned 722-Full and 723-Full. The SSEP views the scientific goals of this project as very high priority and unusually high in terms of societal relevance. The scope of the project, the interrelationship of individual phases of proposed research, and the dependence of individual expeditions on the outcome of previous ones, necessitates this designation. At this time, all of the proposals lack critical site survey data, and further consideration by the SSEP will be delayed until such data have been acquired and analyzed. However, we note that designation of Proposal 707 as a CDP may help the proponents to obtain funding to carry out the needed surveys. Additionally, CDP designation would enhance integration of the multiple science components and long-term science planning.

5.2 Recommendation related to forming a DPG related to the Asian Monsoon and Tibetan Uplift History

During discussion of the 713-MP (Mission Monsoon) proposal it was recognized that the four proposals dealing with the Asian Monsoon and Tibetan Uplift History, all proposals reviewed very positively during earlier SSEP meetings, need further coordination, organization and prioritization. This can be best achieved by forming a Detailed Planning Group (DPG) to develop an optimal plan (including drilling, proxies to be used, post-cruise science, etc.) for addressing the main objectives of research. Thus, the full panel agreed to the following recommendation by consensus:

SSEP Recommendation 0705-4: The SSEP recommends that SPC consider forming a Detailed Planning Group that will be responsible for organizing and prioritizing proposals dealing with the history of Asian monsoon and its linkage to the uplift of the Himalayan-Tibetan orogenic system (Proposals 552 – Bengal Fan, 595 – Indus Fan, 618 – SE Asian Shelf, and 683 – East Asia Topography and Monsoon). The SSEP will provide SPC with a mandate for the DPG before the next SPC meeting.

5.3 Recommendation related to 694-Full3 (Izu-Bonin-Mariana Arc Evolution umbrella proposal)

The SSEP understands the scientific importance of Izu-Bonin-Mariana arc drilling described in Proposal 694-Full3 submitted as an umbrella proposal for IBM complex drilling project. However, the SSEP could not agree by consensus whether or not this

proposal should stand as a CDP umbrella proposal, but did agreed by consensus to forward the proposal to the Science Planning Committee for their judgment.

SSEP Recommendation 0705-5: The SSEP asks SPC to decide whether or not 694-Full3 should be endorsed as a Complex Drilling Project (CDP).

6. Presentation by MS PHD's students

Each of the visiting MS PHD's students made a short presentation about what they learned during the meeting through interaction and observation with panel members and liaisons.

7. Nomination and Election of a next co-chair candidate

Jan Backman nominated Heiko Pälike to serve as the next Co-Chair of SSEP. Frédérique Eynaud seconded the nomination. The nomination of Heiko Pälike was approved by vote of the full panel, using paper ballots.

SSEP Recommendation 0705-6: The SSEP recommends that SPC consider Heiko Pälike for appointment as the next Co-Chair of SSEP.

8. Next SSEP meetings

Frédérique Eynaud announced that the 9th SSEP meeting has been scheduled in Bordeaux, France. Tentative dates are Nov 12-15, 2007. The following meeting will be held in Asia during May 2008.

9. Resolutions for outgoing SSEP members

Resolutions were presented thanking outgoing SSEP members for their years of dedication including, John Chen, Jerry Dickens, Jeff Gee, Makoto Ito, Zhimin Jian, Juli Morgan, Rüdiger Stein, Lori Summa, and Mike Underwood. A special resolution was made for Nobu Eguchi, moving from the position of IODP-MI science coordinator.

10. Conclusion

The co-chairs Ryuji Tada, Rüdiger Stein, and Barbara John thanked again the hosts Juli Morgan, Jerry Dickens and Lori Summa for their excellent organization and arrangements, field trip coordination, and hospitality throughout the meeting. The co-chairs thanked all of the panel members for their dedication and hard work. Watchdogs submitted drafts of all proposal reviews to the IODP-MI science coordinators (Nobu Eguchi and Barry Zelt) before the meeting ended.

Science Steering and Evaluation Panel
May 29-June 1, 2007
Rice University, Houston, Texas, U.S.A

Minutes (v1.1)

1. Joint Session, Reports

1.1. Introduction of panel members, liaisons, and guests

The complete list of participants in the 8th meeting of SSEP is provided as **Attachment 1**.

1.2. Status of IODP

Manik Talwani addressed all attendees and summarized the status of funding and operations with IODP.

1.3. Opening remarks by local host

Julia Morgan welcomed attendees and summarized logistics.

1.4. Approval of last SSEP meeting minutes

SSEP Consensus 0705-1: The SSEP approves the minutes of its 7th meeting on 13-16 November 2007, Sapporo, Japan.

1.5. Approval of SSEP meeting agenda

SSEP Consensus 0705-2: The SSEP approves the revised agenda of its 8th meeting on May 29-June 1 in Houston, Texas.

The agenda for the 8th meeting of SSEP is provided as **Attachment 2**.

1.6. Introduction to meeting organization

Barbara John briefly reviewed the meeting agenda and described how the meeting would be organized.

1.7. SPC Report

Keir Becker reported on outcomes of the 9th meeting of the Science Planning Committee, held in Osaka, Japan, March 4-7, 2007. Topics of interest included the approval of Barbara John as SSEP co-chair, an update on FY08-09 schedule development in light of new budget projections, results of the March 2007 SPC proposal ranking for FY09 and beyond, an update from March SASEC meeting (Jim Mori next SPC chair), an update on the SAS review, and Mission proposal review procedure.

Becker reported information from the Hotspot DPG meeting held in Honolulu, Hawaii, January 12-13, 2007.

1.8. SSP Report

Dale Sawyer reported on outcomes of the 8th meeting of the Site Survey Panel, held February 20-22, 2007 in San Diego, Calif., USA. He reiterated the recommendation made

for an open access policy for the IODP site-survey data bank and sharing site-survey data and metadata with other international scientific organizations and data banks, where possible.

1.9. USIO Report (United States Implementing Organization)

Jay Miller reported on personal changes and operational activities of the United States Implementing Organization (JOI Alliance), and SODV update. Of interest include status of the SODV conversion (contract signed, design completion, investment of ODL in vessel improvements, and expected delivery date - Jan 1, 2008), FY08-09 status, planning/pre-expedition meetings of NanTroSEIZE, Bering Sea, and Equatorial Pacific expeditions, completion of the digital library, and funding challenges.

1.10. CDEX Report (Japan Implementing Organization)

Yusuke Kubo reported on Chikyu test cruises and the Chikyu schedule. Of interest were details of the oversea shakedown cruise, and preparation for NanTroSEIZE.

1.11. EDP Report (Engineering Development Panel)

Bill Ussler (EDP liaison) provided an overview of existing technologies and engineering development plans, as requested by the SSEP in its last meeting. Topics included discussion of drilling under difficult conditions (lithologic, thermal, and in regions of fluid overpressure, and/or active tectonics).

1.12. IODP-MI Report

Nobu Eguchi reported on activities at IODP-MI including SAS meeting schedule, proposal submission statistics, possible SSEP recommendations, workshop update, SSEP rotations, and personnel changes. Greg Myers presented an IODP engineering update.

1.13. MS PHD's Program

Charna Meth introduced JOI's partnership with the Minorities Striving and Pursuing Higher Degrees of Success in Earth System Science (MS PHD's) Professional Development Program, as a mechanism to encourage minority students to explore and pursue careers in the ocean sciences.

1.14. Report on new tools and technologies

Chris del Campo (Schlumberger) reported on new tools being developed, followed by questions from the panel and liaisons.

2. Meeting Overview

2.1. Reviewing process

Rüdiger Stein reviewed the SSEP mandate, conflict-of-interest rules, watchdog responsibilities, organization and objectives of breakout sessions, the purpose and content of watchdog reports during general sessions, the content of final reviews for proposals forwarded to SPC, procedures for rejecting (deactivating) proposals, and 5 star grouping system.

2.2. Mission concept review

Mike Underwood gave an introduction to the Mission Concept, and outlined the SSEP's role in Mission implementation, the goals and definitions of missions, the review mechanism, and SSEP's evaluation responsibilities.

As outlined, the SSEP is charged to recommend to SPC if Mission Proposals warrant Mission designation based on their definition as 1) intellectually integrated and coordinated drilling strategy, 2) originating from the scientific community, 3) address a significant aspect of an IODP Science Plan theme over an extended period, and 4) merits **urgent** promotion in order to achieve overall IODP program goals.

3. Breakout Sessions

A total of 35 proposals were reviewed during the meeting that include new external reviews available for 2 proposals. Panel members were subdivided into three breakout sessions for detailed discussions of the proposals: Breakout Session 1: *Faults/Fluids* (chaired by Rüdiger Stein); Breakout Session 2: *Paleoclimate/oceanography* (chaired by Ryuji Tada); Breakout Session 3: *Solid Earth/Petrology* (chaired by Barbara John).

Breakout Session 1: Fluids and Faults (Chair: Rüdiger Stein)							
Proposal	Short Title	Lead Proponent	lead watchdog	watchdog2	watchdog3	watchdog4	watchdog5
601-Full3	Okinawa Trough Deep Biosphere	Takai	Menez	Yamaguchi	Schulte	Aiello	Takeuchi
662-Full3	South Pacific Gyre Microbiology	D'Hondt	Takai	Menez	Wilson	Takeuchi	Schulte
671-Pre2	Campi Flegrei Caldera	Sacchi	Kopf	Underwood	Tamura	Elliot	Wilson
703-Full	Costa Rica SeisCORK	Brown	Summa	Wilson	Kopf	Morgan	Yamaguchi
704-Full	Sumatra Seismogenic Zone	Goldfinger	Ishiwatari	Summa	Morgan	Kumagai	Chen
707-Full2	Sagami Bay Seismic Monitoring	Kobayashi	Morgan	Takeuchi	Lavier	Underwood	Takai
712-APL	Sediment-CORK Trial Installation	Davis	Lyle	Wilson	Zierenberg	Takai	Menez
715-Pre	Mediterranean Landslides	Camerlenghi	Schulte	Kopf	Ito	Jaeger	Kuroda
722-Full	Sagami Bay Tectonics and Paleoseismology	Yamamoto	Underwood	Chen	Kopf	Summa	Tamura
723-Full	Sagami Bay Kanto Asperity Network	Kobayashi	Wilson	Morgan	Chen	Lyle	Takai

Breakout Session 2: Paleoclimate/oceanography (Chair: Ryuji Tada)							
Proposal	Short Title	Lead Proponent	lead watchdog	watchdog2	watchdog3	watchdog4	watchdog5
514-Full6	Maldives Sea Level	Droxler	Aiello	Suzuki	Pälike	Ito	Yamaguchi
567-Full4	South Pacific Paleogene	Rea	Pälike	Nishi	Backman	Dickens	Takai
634-Full2	Antarctic Circumpolar Current	Barker	Backman	Jian	Kuroda	Yamaguchi	Jaeger
656-Full4	Belize Margin Paleoclimate and	Droxler	Jaeger	Backman	Ito	Suzuki	Summa

683-Full	Tectonics East Asia Topography and Monsoon Southern Alaska Margin 1: Climate-	Wang	Eynaud	Ito	Jaeger	Takeuchi	Dickens
686-Full	Tectonics Pacific Mesozoic Extreme	Jaeger	Ito	Aiello	Kuroda	Backman	Chen
709-Pre2	Environment	Ohkouchi	Lyle	Dickens	Nishi	Menez	Backman
713-MP	Mission Monsoon Gulf of Cadiz	Clift	Dickens	Pälike	Suzuki	Lyle	Nishi
714-APL	Paleoceanography Hawaiian Drowned Coral Reefs	Lobo	Kuroda	Jaeger	Aiello	Pälike	Schulte
716-Full	Bering Sea Sub- millennial Climate	Webster	Suzuki	Lavier	Jian	Menez	Eynaud
721-APL	Gulf of Aden	Cook	Kuroda	Lyle	Jian	Eynaud	Aiello
724-Full	Faunal Evolution Malvinas	deMenocal	Jian	Dickens	Eynaud	Nishi	Pälike
556-Full4	Confluence	Wefer	Nishi	Eynaud	Ito	Yamaguchi	Jian

Breakout Session 3: Solid Earth/Petrology (Chair: Barbara John)							
Proposal	Short Title	Lead Proponent	lead watchdog	watchdog2	watchdog3	watchdog4	watchdog5
623-Full4	Ontong Java Plateau	Neal	Elliot	Kumagai	Christeson	Konnerup -Madsen	Fujiwara
694-Full3	Izu-Bonin-Mariana Arc Evolution	Tatsumi	Christeson	Konerup- Madsen	Elliot	Zierenber g	Gee
695-Full	Izu-Bonin-Mariana Pre-Arc Crust	Arculus/Fujioka	Kumagai	Elliot	Christeson	Ishiwatari	Fujiwara
697-Full	Izu-Bonin-Mariana Reararc Crust	Tamura	Kimura	Fujiwara	Gee	Christeso n	Suzuki
698-Full	Izu-Bonin-Mariana Arc Middle Crust	Tatsumi	Christeson	Ishiwatari	Lavier	Takazaw a	Konerup- Madsen
706-Full2	Kerguelen Large Igneous Province	Coffin	Fujiwara	Tamura	Kumagai	Konerup- Madsen	Morgan
717-Pre	Western Australia Margin Magmatism	Müller	Zierenberg	Gee	Takazawa	Tamura	Ishiwatari
718-Pre	Pacific Plate Petit Spot Volcanism	Hirano	Takazawa	Kimura	Zierenberg	Ishiwatari	Konerup- Madsen
719-MP	Mission Moho Birth of Oceans	Ildefonse	Chen	Kimura	Elliot	Christeso n	Takeuchi
720-MP	Mission NE Atlantic Volcanic Rifted	Hopper	Gee	Summa	Takazawa	Kopf	Schulte
725-Full	Margin Walvis Ridge	Huisman	Lavier	Takazawa	Kimura	Zierenber g	Kumagai
669-Full2	Hotspot Ontong Java Plateau	Sager	Tamura	Gee	Fujiwara	Kimura	Lavier
623-Full4	Plateau	Neal	Elliot	Kumagai	Christeson	Konnerup -Madsen	Fujiwara

The conflict of interest rules and confidentiality requirements were respected during the entire review procedure (breakout sessions, general sessions, and grouping). The table below lists the conflicted SSEP members, liaisons and guests who left the room during the review of the relevant proposals.

Proposal No	Short Title	Lead Proponent	Conflict of Interest observed
514-Full6	Maldives Sea Level	Droxler	
567-Full4	South Pacific Paleogene	Rea	Lyle
601-Full3	Okinawa Trough Deep Biosphere	Takai	Takai, Kumagai,
623-Full4	Ontong Java Plateau	Neal	
634-Full2	Antarctic Circumpolar Current	Barker	
656-Full4	Belize Margin Paleoclimate and Tectonics	Droxler	
662-Full3	South Pacific Gyre Microbiology	D'Hondt	
671-Pre2	Campi Flegrei Caldera	Sacchi	
683-Full	East Asia Topography and Monsoon	Wang	Tada (mission proponent)
686-Full	Southern Alaska Margin 1: Climate-Tectonics	Jaeger	Jaeger
694-Full3	Izu-Bonin-Mariana Arc Evolution	Tatsumi	Tamura
695-Full	Izu-Bonin-Mariana Pre-Arc Crust	Arculus/Fujioka	Tamura, Gurnis
697-Full	Izu-Bonin-Mariana Reararc Crust	Tamura	Tamura
698-Full	Izu-Bonin-Mariana Middle Crust	Tatsumi	Tamura
703-Full	Costa Rica SeisCORK	Brown	
704-Full	Sumatra Seismogenic Zone	Goldfinger	
706-Full2	Kerguelen Large Igneous Province	Coffin	
707-Full2	Sagami Bay Seismic Monitoring	Kobayashi	Ito
709-Pre2	Pacific Mesozoic Extreme Environment	Ohkouchi	Kuroda
712-APL	Sediment-CORK Trial Installation	Davis	Becker
713-MP	Mission Monsoon	Cliff	Tada
714-APL	Gulf of Cadiz Paleooceanography	Lobo	
715-Pre	Mediterranean Landslides	Camerlenghi	
716-Full	Hawaiian Drowned Coral Reefs	Webster	
717-Pre	Western Australia Margin Magmatism	Müller	
718-Pre	Pacific Plate Petit Spot Volcanism	Hirano	Kumagai
719-MP	Mission Moho	Ildefonse	Gee, Kumagai, Takazawa
720-MP	Birth of Oceans Mission	Hopper	Lavier, Sawyer
721-APL	Bering Sea Sub-millennial Climate	Cook	
722-Full	Sagami Bay Tectonics and Paleoseismology	Yamamoto	
723-Full	Sagami Bay Kanto Asperity Network	Kobayashi	
724-Full	Gulf of Aden Faunal Evolution	deMenocal	
725-Full	NE Atlantic Volcanic Rifted Margin	Huisman	
556-Full4	Malvinas Confluence	Wefer	
669-Full2	Walvis Ridge Hotspot	Sager	

The course of action regarding each of the 35 proposals reviewed during the Houston meeting was achieved by consensus of the full panel. The dispositions are as follows:

<p>Pre-Proposal: request Pre2 Proposal = 2 Pre-Proposal: request Full Proposals = 1 Full Proposal: forward to SPC = 2 APL: forward to SPC = 1 Full Proposal: forward to SPC for CDP approval = 2 Full Proposal: send for External Review = 5 Full Proposal no action = 1 (special case – see below)</p>

Full Proposal: request revision = 11
Full Proposal: deactivate/request new submission = 3
Pre Proposal: deactivate/request new submission = 2
APL: deactivate/request new submission = 2
Mission proposal: evaluated = 3

The specific dispositions for each proposal are as follows:

Status	Proposal No	Short Title	Lead Proponent	Country	Review
re Full	514-Full6	Maldives Sea Level	Droxler	USA	Deactivate
re Full	567-Full4	South Pacific Paleogene	Rea	USA	Ext. Review
re Full	601-Full3	Okinawa Trough Deep Biosphere	Takai	Japan	Forward to SPC
re Full	623-Full4	Ontong Java Plateau	Neal	USA	Revise full
re Full	634-Full2	Antarctic Circumpolar Current	Barker	ECORD (UK)	Deactivate
re Full	656-Full4	Belize Margin Paleoclimate and Tectonics	Droxler	USA	Revise full
re Full	662-Full3	South Pacific Gyre Microbiology	D'Hondt	USA	Ext. Review
re Pre	671-Pre2	Campi Flegrei Caldera	Sacchi	ECORD (Italy)	Deactivate
new Full	683-Full	East Asia Topography and Monsoon	Wang	China	Revise full
new Full	686-Full	Southern Alaska Margin 1: Climate-Tectonics	Jaeger	USA	Ext. Review
re Full	694-Full3	Izu-Bonin-Mariana Arc Evolution	Tatsumi	Japan	Decision by SPC
new Full	695-Full	Izu-Bonin-Mariana Pre-Arc Crust	Arculus/Fujioka	Australia	Revise full
new Full	697-Full	Izu-Bonin-Mariana Reararc Crust	Tamura	Japan	Revise full
new Full	698-Full	Izu-Bonin-Mariana Arc Middle Crust	Tatsumi	Japan	Revise full
new Full	703-Full	Costa Rica SeisCORK	Brown	USA	Ext. Review
new Full	704-Full	Sumatra Seismogenic Zone	Goldfinger	USA	Revise full
re Full	706-Full2	Kerguelen Large Igneous Province	Coffin	Japan	Deactivate
re Full	707-Full2	Sagami Bay Seismic Monitoring	Kobayashi	Japan	Revise full
re Pre	709-Pre2	Pacific Mesozoic Extreme Environment	Ohkouchi	Japan	Deactivate
new APL	712-APL	Sediment-CORK Trial Installation	Davis	Canada	forward SPC
new Mission	713-MP	Mission Monsoon	Cliff	UK	---
new APL	714-APL	Gulf of Cadiz Paleoceanography	Lobo	ECORD (Spain)	Deactivate
new Pre	715-Pre	Mediterranean Landslides	Camerlenghi	ECORD (Spain)	Develop full
new Full	716-Full	Hawaiian Drowned Coral Reefs	Webster	Australia	Revise full
new Pre	717-Pre	Western Australia Margin Magmatism	Müller	Australia	Revise pre
new Pre	718-Pre	Pacific Plate Petit Spot Volcanism	Hirano	Japan	Revise pre
new Mission	719-MP	Mission Moho	Ildefonse	ECORD (France)	---
new Mission	720-MP	Birth of Oceans Mission	Hopper	USA	---
new APL	721-APL	Bering Sea Sub-millennial Climate	Cook	USA	Deactivate
new Full	722-Full	Sagami Bay Tectonics and Paleoseismology	Yamamoto	Japan	Revise full
new Full	723-Full	Sagami Bay Kanto Asperity Network	Kobayashi	Japan	Revise full
new Full	724-Full	Gulf of Aden Faunal Evolution	deMenocal	USA	Ext. Review
new Full	725-Full	NE Atlantic Volcanic Rifted Margin	Huisman	ECORD (Norway)	Revise full
Ext. Review	556-Full4	Malvinas Confluence	Wefer	ECORD (Germany)	Forward to SPC
Ext. Review	669-Full2	Walvis Ridge Hotspot	Sager	USA	Revise full

A qualitative grouping was assigned to the two proposals forwarded to the SPC using the revised 5-star scale. Each grouping was obtained by consensus of the full panel.

669-Full 2 went out for external review following the November 2006 SSEP meeting in Sapporo. The SSEP received a PRL to the review in November, but no response to external reviews. The proponents indicated in March 2007 that they plan to submit a revised Full3 for the October 2007 deadline. The SSEP therefore did not review the existing proposal (669-Full2), and no action was taken.

4. Discussion of Mission proposals

Three Mission proposals (713-MP Mission Monsoon, 719-MP Mission Moho, 720-MP Mission Birth of Oceans) were submitted by the deadline to be considered at the SSEP meeting. The SSEP was charged to recommend to SPC if Mission Proposals warrant Mission designation based on their definition as 1) intellectually integrated and coordinated drilling strategy, 2) originating from the scientific community, 3) address a significant aspect of an IODP Science Plan theme over an extended period, and 4) merits **urgent** promotion in order to achieve overall IODP program goals. Breakout group discussions on Mission proposals were led by 5 assigned watchdogs and followed the review procedure similar to regular drilling proposals except the evaluation step which focused on whether the proposals satisfied the four criteria required to satisfy Mission designation. In the joint session discussion, the three mission proposals were evaluated again based on the Mission designation criteria to assure the same criteria were applied to all the three proposals.

5. Discussions and recommendations

5.1 Recommendation related to 707-Full2 (Sagami Bay Seismic Monitoring)

The SSEP recognizes 707-Full2 (Sagami Bay Seismic Monitoring) as a very important proposal, addressing key seismic hazards in heavily populated area case. The proposal as written by Kobayashi and 34 other proponents for the Kanto asperity, is identified as an umbrella proposal for a CDP. This is not stated specifically but implied. Previous review confirmed importance of the scientific objectives, and relevance to the ISP (solid earth cycles). The SSEP therefore forwards the proposal to SPC for designation as a CDP for prompt approval, with very strong support. The full panel agreed to the following recommendation by consensus:

SSEP Recommendation 0705-3: SSEP recommends that Proposal 707-Full2, **Kanto asperity project: Geological and geophysical characterization of the history and present behavior of the earthquake cycle**, be recognized as a Complex Drilling Proposal (CDP) associated with component proposals presently assigned 722-Full and 723-Full. The SSEP views the scientific goals of this project as very high priority and unusually high in terms of societal relevance. The scope of the project, the interrelationship of individual phases of proposed research, and the dependence of individual expeditions on the outcome of previous ones, necessitates this designation. At this time, all of the proposals lack critical site survey data, and further consideration by the SSEP will be delayed until such data have been acquired and analyzed. However, we note that designation of Proposal 707 as a CDP may help the proponents to obtain

funding to carry out the needed surveys. Additionally, CDP designation would enhance integration of the multiple science components and long-term science planning.

5.2 Recommendation related to forming a DPG related to the Asian Monsoon and Tibetan Uplift History

During discussion of the 713-MP (Mission Monsoon) proposal it was recognized that the four proposals dealing with the Asian Monsoon and Tibetan Uplift History, all proposals reviewed very positively during earlier SSEP meetings, need further coordination, organization and prioritization. This can be best achieved by forming a Detailed Planning Group (DPG) to develop an optimal plan (including drilling, proxies to be used, post-cruise science, etc.) for addressing the main objectives of research. Thus, the full panel agreed to the following recommendation by consensus:

SSEP Recommendation 0705-4: The SSEP recommends that SPC consider forming a Detailed Planning Group that will be responsible for organizing and prioritizing proposals dealing with the history of Asian monsoon and its linkage to the uplift of the Himalayan-Tibetan orogenic system (Proposals 552 – Bengal Fan, 595 – Indus Fan, 618 – SE Asian Shelf, and 683 – East Asia Topography and Monsoon). The SSEP will provide SPC with a mandate for the DPG before the next SPC meeting.

5.3 Recommendation related to 694-Full3 (Izu-Bonin-Mariana Arc Evolution umbrella proposal)

The SSEP understands the scientific importance of Izu-Bonin-Mariana arc drilling described in Proposal 694-Full3 submitted as an umbrella proposal for IBM complex drilling project. However, the SSEP could not agree by consensus whether or not this proposal should stand as a CDP umbrella proposal, but did agree by consensus to forward the proposal to the Science Planning Committee for their judgement.

SSEP Recommendation 0705-5: The SSEP asks SPC to decide whether or not 694-Full3 should be endorsed as a Complex Drilling Project (CDP).

6. Presentation by MS PHD's students

Each of the visiting MS PHD's students made a short presentation about what they learned during the meeting through interaction and observation with panel members and liaisons.

7. Nomination and Election of a next co-chair candidate

Jan Backman nominated Heiko Pälike to serve as the next Co-Chair of SSEP. Frédérique Eynaud seconded the nomination. The nomination of Heiko Pälike was approved by vote of the full panel, using paper ballots.

SSEP Recommendation 0705-6: The SSEP recommends that SPC consider Heiko Pälike for appointment as the next Co-Chair of SSEP.

8. Next SSEP meetings

Frédérique Eynaud announced that the 9th SSEP meeting has been scheduled in Bordeaux, France. Tentative dates are Nov 12-15, 2007. The following meeting will be held in Asia during May 2008.

9. Resolutions for outgoing SSEP members

Resolutions were presented thanking outgoing SSEP members for their years of dedication including, John Chen, Jerry Dickens, Jeff Gee, Makoto Ito, Zhimin Jian, Juli Morgan, Rüdiger Stein, Lori Summa, and Mike Underwood. A special resolution was made for Nobu Eguchi, moving from the position of IODP-MI science coordinator.

10. Conclusion

The co-chairs Ryuji Tada, Rüdiger Stein, and Barbara John thanked again the hosts Juli Morgan, Jerry Dickens and Lori Summa for their excellent organization and arrangements, field trip coordination, and hospitality throughout the meeting. The co-chairs thanked all of the panel members for their dedication and hard work. Watchdogs submitted drafts of all proposal reviews to the IODP-MI science coordinators (Nobu Eguchi and Barry Zelt) before the meeting ended.

Attachment 1. List of participants

Name (*co-chair)	E-mail	Affiliation	Notes
Aiello, Ivano	iaielo_at_mlml.calstate.edu	SSEP	
Anma, Ryo	anma_at_arsia.geo.tsukuba.ac.jp	SSEP	not attending
Backman, Jan	backman_at_geo.su.se	SSEP	
Chen, John Yongshun	johnyc_at_pku.edu.cn	SSEP	
Christeson, Gail	gail_at_ig.utexas.edu	SSEP	
Dickens, Gerald	jerry_at_rice.edu	SSEP	
Elliott, Timothy	tim.elliott_at_bris.ac.uk	SSEP	
Eynaud, Frédérique	f.eynaud_at_epoc.u-bordeaux1.fr	SSEP	
Fujiwara, Toshiya	toshi_at_jamstec.go.jp	SSEP	
Gee, Jeff	jsgee_at_ucsd.edu	SSEP	
Gurnis, Mike	gurnis_at_caltech.edu	SSEP	not attending
Hirono, Tetsuro	hirono_at_ess.sci.osaka-u.ac.jp	SSEP	not attending
Ishiwatari, Akira	geoishw_at_kenroku.kanazawa-u.ac.jp	SSEP	alternate for Hirono, Tetsuro
Ito, Makoto	mito_at_faculty.chiba-u.jp	SSEP	
Jaeger, John	jaeger_at_geology.ufl.edu	SSEP	
Jian, Zhimin	zjiank_at_online.sh.cn	SSEP	
John, Barbara*	bjohn_at_uwoyo.edu	SSEP	
Joye, Samantha	mjoye_at_uga.edu	SSEP	not attending
Kim, Dae Choul	dckim_at_pknu.ac.kr	SSEP	not attending
Kimura, Jun-ichi	jkimura_at_riko.shimane-u.ac.jp	SSEP	
Konnerup-Madsen, Jens	jenskm_at_geol.ku.dk	SSEP	not attending
Kopf, Achim	akopf_at_uni-bremen.de	SSEP	new member
Kumagai, Hidenori	kumagai_at_jamstec.go.jp	SSEP	alternate for Anma, Ryo
Kuroda Junichiro	kurodaj_at_jamstec.go.jp	SSEP	new member
Lavier, Luc	luc_at_utig.ig.utexas.edu	SSEP	alternate for Gurnis, Mike
Lyle, Mitch	mlyle_at_ocean.tamu.edu	SSEP	alternate for Torres, Marta
Menez, Bénédicte	menez_at_ipgp.jussieu.fr	SSEP	
Morgan, Julia	morganj_at_rice.edu	SSEP	
Nishi, Hiroshi	hnishi_at_mail.sci.hokudai.ac.jp	SSEP	
Pälike, Heiko	heiko_at_noc.soton.ac.uk	SSEP	new member
Schulte, Mitchell	schultemd_at_missouri.edu	SSEP	alternate for Joye, Samantha
Stein, Rüdiger *	rstein_at_awi-bremerhaven.de	SSEP	
Summa, Lori	lori.l.summa_at_exxonmobil.com	SSEP	
Suzuki, Atsushi	a.suzuki_at_aist.go.jp	SSEP	
Tada Ryuji *	ryuji_at_eps.s.u-tokyo.ac.jp	SSEP	
Takai, Ken	kent_at_jamstec.go.jp	SSEP	
Takeuchi, Mio	takeuchi-mio_at_aist.go.jp	SSEP	
Tamura, Yoshihiko	tamuray_at_jamstec.go.jp	SSEP	
Takazawa, Eiichi	takazawa_at_geo.sc.niigata-u.ac.jp	SSEP	new member
Torres, Marta	mtorres_at_coas.oregonstate.edu	SSEP	not attending
Underwood, Mike	underwoodm_at_missouri.edu	SSEP	
Wilson, Alicia	awilson_at_geol.sc.edu	SSEP	
Yamaguchi Kosei	kosei_at_jamstec.go.jp	SSEP	new member
Zierenberg, Robert	zierenberg_at_geology.ucdavis.edu	SSEP	
Bangs, Nathan	nathan_at_utig.ig.utexas.edu	SSP	
Becker, Keir	kbecker_at_rsmas.miami.edu	SPC	

Del Campo, Chris	delcampo_at_sugar-land.oilfield.slb.com	Schlumberger	
Eguchi, Nobuhisa	science_at_iodp-mi-sapporo.org	IODP-MI	
Gamage, Kusali	gamage_at_iodp.tamu.edu	USIO	
Geldmacher, Jörg	geldmacher_at_iodp.tamu.edu	USIO	
John, Cedric	john_at_iodp.tamu.edu	USIO	
Kubo, Yusuke	kuboy_at_jamstec.go.jp	CDEX	
Mori, James	mori_at_eqh.dpri.kyoto-u.ac.jp	SPC	
Meth, Charna	cmeth_at_joyscience.org	USSSP	
Miller, Jay	miller_at_iodp.tamu.edu	USIO	
Morell, Margo	mmorell_at_joyscience.org	USIO	
Myers, Greg	GMyers_at_iodp.org	IODP-MI	
O'Riordan, Catherine	coriordan_at_joyscience.org	USSSP	
Sawyer, Dale	dale_at_rice.edu	SSP	
Talwani, Manik	mtalwani_at_iodp.org	IODP-MI	
Weinberger, Jill	jillw_at_ldeo.columbia.edu	USIO	
Zelt, Barry	science_at_iodp-mi-sapporo.org	IODP-MI	
Ussler, William	methane_at_mbari.org	EDP	

Brown, Justin	jrbrown5_at_stanford.edu	MS PHD'S Program	
Haynes, Sekeenia	shaynes_at_marine.usf.edu	MS PHD'S Program	
Howard, Joniqua	joniquahoward_at_gmail.com	MS PHD'S Program	
Ithier, Warner	ithiergu_at_marine.usf.edu	MS PHD'S Program	
Smith, Adrienne	adrienne_at_ldeo.columbia.edu	MS PHD'S Program	
Vargas, Wanda	wandav_at_anvilknitwear.com	MS PHD'S Program	

Attachment 2. Provisional agenda

#8 Scientific Steering and Evaluation Panel
Tuesday, May 29 – Friday, June 1, 2007
8:30 – 17:00 (will end at noon on Friday)
Rice University
Houston, Texas, U.S.A.

Monday, May 28 (Optional)

Field Trip to Galveston & Gulf Coast (co-led by John Anderson)

FT Dinner in Galveston or Kemah

Tuesday, May 29

Joint Session, Reports

- Introduction of attendees to SSEP
- Opening Remarks by Host (Morgan)
- Approval of the agenda (John)
- Approval of minutes from Sapporo Meeting, Japan, November 2006 (John)
- Introduction to the meeting (John)
- Status of IODP (Talwani)
- SPC report (Becker)
- SSP report (Sawyer)
- USIO report (Miller)

----- Coffee break -----

- CDEX report (Kubo)
- ESO report (Brewer)
- EDP report (Ussler)
- IODP-MI report (Eguchi/Myers)
- MS PHD'S Program (TBN)

----- Lunch break -----

Meeting overview

- Reviewing process and breakout sessions (Stein)
- Mission concept, SSEP role, reviewing process (Underwood) and mission reviewing process discussion (Stein?)

----- Coffee break -----

Report on new tools and technologies (Campo/Schlumberger)
and panel discussion
Breakout sessions

- Proposal review
 - Mission proposal review
- Ice Breaker and BBQ dinner at Martel College, Rice University (optional)*

Wednesday, May 30

Breakout sessions

- Proposal review cont.
- Mission proposal review cont.

Meeting Dinner - downtown on Metro (ExxonMobil sponsors)

Thursday, May 31

Breakout sessions

- Proposal review cont.
- Mission proposal review cont.

Joint SSEP session

- Proposal review.
- Mission proposal review

Astros-Cincinnati Game (optional)

Friday, June 1

Joint SSEP session

- Proposal review
- Mission proposal review

Discussions and recommendations to SPC

Presentations by MS PHD'S students

Nomination of next co-chair

Resolutions for outgoing SSEP members

Announcements and discussion on upcoming SSEP Meetings

November 2007

May 2008 (suggestions)

Conclusions