#2 Site Characterization Panel Meeting Minutes

7-9 Aug 2012 Barcelona, Catalunia, SPAIN



The 2nd SCP meeting was held in SPAIN at the Institute of Marine Sciences of CSIC, (http://www.icm.csic.es/en/content/institute-marine-sciences). The center is located located in Barcelona's Barceloneta District between the Hospital del Mar and the Olympic Towers. The host of the meeting was Roger Urgeles who offered SCP attendees a very good conference room and lodging.

1. Welcome and Introduction on August the 7th

1.1 Introduction of participants

1.2 Meeting logistics

Gilles Lericolais Roger Urgeles

2. Approval of minutes of last e-meeting

Gilles Lericolais

SCP Consensus 1208-01: e-minutes realized via emails in August 2011 are approved.

3. Conduct of business

Gilles Lericolais

Adoption of agenda

Reminder of SSP mandate

Reminder of data requirements matrix

Reminder of SSP "completeness" classification

Reminder of IODP Conflict of Interest Policy and declaration of conflicts

Member Rotation (and proposal made to the Science Support and Advisory Committees)

New members for this panel:

Ken IKEHARA (Institute of Geology and Geoinformation, AIST, Japan) - e-mail: k-ikehara@aist.go.jp

Yoshihiro ITO (AOB, Sendaï, Japan) e-mail: vito@aob.gp.tohoku.ac.jp

Alternates: Maria Jose Jurado (ECORD, Spain) mjjurado@ija.csic.es; Andrew Gorman (ANZIC)

Andrew.Gorman@otago.ac.nz and David Naar (USA) naar@usf.edu

4. Reports

4.1 IODP-MI

(15 min)

Michiko Yamamoto (IODP-MI)

- The presentation was on proposal submissions 15 new and 3 revised; 80 active proposals.
- Presentation oof the proposal breakdown NSP themes, geographic, members, platforms
- SAS meeting schedule (STP: 4-6 Sep 2012,USA; Proposal Deadline 1 Oct 2012, , PEP: 11-12 December 2012, Kyoto, Japan)
- -Elements of new framework: Three Platforms (Independently funded operations); Science Advisory Structure (Proposal evaluation); Support Office (Proposal processing and SAS support); IODP Forum (International body for monitoring and advising Platform Providers)
- -All presentations and reviews will be provided to Michiko-san at the end of the meeting.

4.2 PEP

(15 min)

Gabriele Uenzelmann-Neben (SCP liaison)

- Report on the PEP meeting held in Edinburgh 14-15 May 2012. 34 PEP members attended together with 26 liaisons, guests, observers.
- Current role of PEP: nurtures and evaluates alls proposals in context of new science plan, selects best proposals and forwards them to OFT and SIPCOM, stimulates proposal pressure in certain scientific areas in case needed.
- Information on changes in SAS structure (2 Committees PEP, SIPCOM + 3 service panels SCP, EPSP, STP -> PEP + 3 service panels).
- Statistic (scientific distribution, challenges) : Climate & Oceans 40.1 % Biosphere Frontiers 21.9 % Earth Connections 16.7 % Earth in Motion 21.4 %
- 20 proposals reviewed : 2 forwarded to OTF; 1 sent for external review; 9 to submit revised or full proposal; 6 deactivated Disagreement about destination of CPPs.

4.3 EPSP (10 min) Gilles Lericolais on behalf Barry Katz (EPSP)

Summary of 2012 Meeting of the Environmental Protection and Safety Panel College Station, TX

- EPSP Reviewed: Electronic review of JFAST completed; Adjustments were made to the active expedition 340 (Lesser Antilles) and to expedition 339 (Mediterranean Outflow) drilling programs; review Proposal 672 (Expedition 347)Baltic Sea Basin Paleoenvironment; review Proposal Expedition 344 CRISP 2a (Costa Rica Seismogenesis Project); review of Proposal 551 Hess Deep Plutonic Crust; review of Proposal 686 Southern Alaska Margin 1: Climate-Tectonics; review of Proposal 661 Newfoundland Sediment Drifts;
- Others: discussion about maximum penetration for Proposal 705 Santa Barbara basin; discussion on Arctic Drilling by the JOIDES Resolution (i.e. A drilling program could be developed but strongly recommended the development of a large number of potential sites to deal with drilling contingencies)
- Overall quality of the safety packages appears to have been regressing; EPSP suggests that representative quality packages be made available to proponents

4.4 CDEX (15 min) Aoke Kan/Kyaw Thu Moe (CDEX)

- Expeditions:

Expedition 343: JFAST (April-May, 2012); Expedition 343T: JFAST-2 (5 – 24 July, 2012); Expedition 337: Deep Coalbed Biosphere off Shimokita (24 July – 30 September, 2012); Expedition 338: NanTroSEIZE Plate Boundary Deep Riser-2 (1 October 2012 – 13 January, 2013);

- -Future plans: NanTroSEIZE Project Drill/log/sample through the mega-splay fault (approx. 5200 mbsf) with observatory installation are primary targets at the moment. Based on 3.11 Tohoku EQ, the final target might be re-considered.
- International Workshop for Post 2013 Chikyu Mission: Prioritization of current riser drilling proposals in SAS. Select a few targets to be challenged in the first 5 years of the next phase of IODP. The consideration should be made based on the new science plan with fiscal constraints and technical challenges.

4.5 USIO (15 min) Adam Klaus (USIO)

JOIDES Resolution - Recent Expeditions:

Mid-Atlantic Ridge Microbiology Expedition (336); Mediterranean Outflow Expedition (339); Atlantis Massif Oceanic Core Complex (APL 779; 340T); Lesser Antilles Volcanism and Landslides Expedition (340); Newfoundland Sediment Drifts Expedition (342);

JOIDES Resolution unscheduled Dry Dock: 17 January to 15 February

Upcoming Expeditions - CRISP-2 (344), Hess Deep (345), South Alaska, and Asian Monsoon (346)

4.6 ESO (15 min) Sally Morgan (ESO)

- FY12: Exp. 581 Late Pleistocene Coralgal Banks (drilling trial) Forwarded March 2010 Vessel not available. Project on hold
- FY13, next MSP: Exp. 672 Baltic Sea Basin Paleoenvironment is forwarded in March 2011is planned forimplementation Spring/Summer 2013.

FY14/FY15 options: Exp. 548 Chicxulub K-T Impact Crater- Forwarded March 2010 - First MSP of the new program, 2014? Exp. 758 Atlantis Massif Seafloor Processes - Forwarded March 2011 – Programmed 2014-2015? Depends on seabed drill readiness

FY16 and beyond, current options: Exp. 716 Hawaiian Drowned Reefs - Forwarded March 2009. Exp. 581 Late Pleistocene Coralgal Banks - Forwarded March 2010. Exp. 637 New England Shelf Hydrogeology - Forwarded March 2009- In holding bin with technology and cost issues.

Plus new MSP proposals forwarded by PEP, possibly in the Arctic

5. Review of Proposals

Proposal	Short_Title	Proponent	WD1	WD2	WD3	COI
537A-Add2	Costa Rica Seismogenesis Project Phase A	Harris	Lericolais	Naar	Kim	
696-Full4	Izu-Bonin-Mariana Deep Forearc Crust	Pearce	Sager	Gorman	Goodliffe	
732-Full2	Antarctic Peninsula Sediment Drifts	Channell	Kashihara	Jurado	Naar	
735-CPP2	South China Sea Tectonic Evolution	Li	Urgeles	Nakamura	Uenzelmann- Neben	Li
777-APL	Okinawa Trough Quaternary Paleoceanography	Lee	Mallinson	Kim	lto	lkehara
784-Full	Amundsen Sea Ice Sheet history	Gohl	Goodliffe	Lericolais	lkehara	Uenzelmann- Neben
793-CPP	Arabian Sea Monsoon	Pandey	Yamashita	Urgeles	Mallinson	Pandey
795-Full	Indian Monsoon Rainfall	Clemens	Uenzelmann- Neben	Mallinson	Sager	Pandey

Duties of Three Watchdogs

Presenter (1st WD)

- reads the proposal
- reviews the data
- creates or update the Powerpoint presentation
- presents the proposal to the SSP
- leads the discussion of the SSP to reach a consensus
- finalizes the panel review (written by Scribe) and then submit it to Kawamura

Scribe (2nd WD)

- reads the proposal
- reviews the data with the presenter
- takes notes during the discussion, including the consensus classifications
- prepares the written review in consultation with other watchdogs

Reader (3rd WD)

- reads the proposal
- reviews the data with the presenter
- provides input to other watchdogs

6. Other business

Rotation process

Recently ESSAC and USAC informed SCP, that all of their representatives would be replaced all in once. SCP warned the Support and Advisory Committees that rotating off all of their highly experienced representatives in the panel is not conducive to efficient evaluations of the proposals as the evaluation process depends on the learning curve of the members. A complete replacement of all members of one committee would really slows things down.

SCP Consensus 1208-02: SCP suggests staggering the rotation in future years so SCP will be able to maintain its expertise level.

ESSAC and USAC have recently chosen to keep one member for another year, and appoint two new members.

7. Future of the SCP.

SCP future:

SCP Consensus 1208-03: The Site Characterization Panel recalls that images of proposed drilled location are absolutely needed to ascertain the scientific validity of the target. IODP community is composed of scientists having an important skill in drilling operation and post drilling analyses but the geophysical skill is concentrated within the EPSP and SCP. SCP recalls that the assessment of the scientific readiness and appropriateness of all proposed drilling sites can only be confirmed by high quality site survey data. Therefore SCP recommends that Full Proposal should be redefined as including all preliminary survey data which helped the proponents to define their targets. These data should be submitted in the SSDB in addition to the proposal text. Site surveys are performed to clearly define the target to be drilled in order to ascertain the scientific relevance of a costly drill operation. They are of importance to understand the scientific proposal, but also to minimize the risk of harm to personnel and equipment, and to protect the natural environment. The objective of any site survey is to identify the scientific content and interpretation but also all possible constraints and hazards from man-made, natural and geological features which may affect the operational or environmental integrity of a proposed drilling operation and usable for EPSP. In addition, the proposed site survey area should be of adequate coverage to visualize the sea-floor and sub-seafloor of the drill locations, and to provide sufficient data to fully assess potential top-hole drilling hazards at these locations.

A properly conducted site survey for an offshore drilling location will require the input of a number of different expertises suitably qualified and experienced in their respective disciplines which are well represented among the SCP. The quality of any dataset selected for use in a site survey should be directly related to the types of conditions expected to exist within the area of interest. The interplay of the physical environment with the type of intended operation has a fundamental impact on the scope and content of a site survey.

The SCP/SSDB Matrix

SCP Consensus 1208-04: Many proponents find the current presentation of site survey data requirements to be confusing and the result is inefficiency for both the proponents and the program as well as fragmentary or poorly organized site survey data sets. The SCP considered that the site survey data "matrix" provided to proponents should be updated and simplified where possible. The SCP has set up a sub-committee to revise the matrix in order to simplify it and make it more efficient. SCP is aware that a similar process was carried out in 2003 in a joint iSSP/iPPSP effort, resulting in the report "Automated Guidelines for IODP Site Survey Characterization" (MATRIX Working Group Final Report, 19 February 2004). This working group concluded that a web interface for site survey data requirements could streamline the collection of such data and make the process more straightforward for proponents and robust for the program. SCP members believe that the recommendations of this report made sense in 2004 and even more so today. SCP recommends that SIPCOM panels consider this report as well as implementing its recommendations for the next phase of IODP.

8. Thanks:

To Members rotating off:

Koji Kashihara (Japan, koji.kashihara@japex.co.jp – JAPEX)

Daniel Fornari (US, dfornari@whoi.edu -Woods Hole Oceanographic Institution)

William Sager (US, wsager@tamu.edu - Texas A&M University)

Roger Urgeles (ECORD, <u>urgeles@icm.csic.es</u> - Institut de Ciències del Mar (CSIC))

SCP Consensus 1208-05: The panel thanks the SCP members rotating of for their high level of expertise and their skill in reviewing the proposals.

To our host:

SCP Consensus 1208-06: The panel thanks our host Roger Urgeles for organizing a wonderful meeting and making our visit to Barcelona very pleasant and productive.

ROSTER

Name	Firstname	Affiliation	email	
Burberry Clennell	Caroline Ben	SCP SCP	cburberry2@unl.edu Ben.Clennell@csiro.au	not attending
Fornari	Daniel	SCP	dfornari@whoi.edu	not attending
Goodliffe	Andrew	SCP	amg@ua.edu	not attending
Gorman	Andrew	SCP	Andrew.Gorman@otago.ac.nz	alternate for Clennnell
Ikehara	Ken	SCP	k-ikehara@aist.go.jp	
Ito	Yoshihiro	SCP	yito@aob.gp.tohoku.ac.jp	New
Kashihara	Koji	SCP	koji.kashihara@japex.co.jp	New
Kim	Gil Young	SCP	gykim@kigam.re.kr	
Lericolais	Gilles	SCP	Gilles.lericolais@ifremer.fr	Chair
Li	Jiabiao	SCP	jbli@zgb.com.cn	not attending
Mallinson	David	SCP	mallinsond@ecu.edu	Vice-chair
Naar	David	SCP	naar@usf.edu	alternate for Fornari
Nakamura	Yasuyuki	SCP	yasu@jamstec.go.jp	
Pandey	Dhananjai K	SCP	pandey@ncaor.org	not attending/ no alternate
Sager	William	SCP	wsager@tamu.edu	
Uenzelmann-Neben	Gabriele	SCP	Gabriele. Uenzelmann-Neben@awi.de	
Urgeles	Roger	SCP	urgeles@icm.csic.es	Host
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Tanahashi	Manabu	EPSP	tanahashi-m@aist.go.jp	not attending
Yamamoto	Michiko	IODPMI	science@iodp.org	
Tamamoto	WITCHING	1001 1011		

SSP completeness classification

1. (Presently viable proposal for drilling next FY)

- 1A. All required data are in the Data Bank and have been reviewed by SSP
- 1A* Proprietary industry data are not in the Data Bank but have been reviewed by SSP.
- 1B. A few required items are missing from the Data Bank but data are readily available.
- 1C. A few required items are not in the Data Bank and not believed to exist.

2. (Possibly viable proposal for next FY or later)

- **2A**. Substantial items of required data are not in the Data Bank but are believed to exist.
- **2B**. Substantial items of required data are not in the Data Bank and not believed to exist, but site survey is scheduled.
- 2C. Substantial items of required data are not in the Data Bank and not believed to exist.

3. (Unlikely for next FY, possible for later)

- **3A**. No data are in the Data Bank but are believed to exist.
- **3B**. No data are in the Data Bank.

Site Characterization Data Adequacy

(Lower case letter to be added to the completeness classification)

- a. Data image the target adequately and there are no scientific concerns of drill site location and penetration
- b. Data image the target adequately but there are scientific concerns of drill site location or penetration
- c. Data do not image target adequately
- **d.** Data are not properly annotated and/or well-enough organized to review

PROPOSAL REVIEW NOTES

Proposal No. 537A-Add2

Short Title Costa RIca Seismogenesis Project CRISP Program A

Lead Proponent Robert Harris

SCP Watchdogs Gilles Lericolais, David Naar, Gil-Young Kim

SCP Conflicts None

Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

(KEY: aka = also known as)

Site	Classification	Latitude	Longitude
Primary Sites:			
U1381 (aka CRIS-1A)	1Aa	8° 25.71' N	84° 9.47' W
U1380 (aka CRIS-10A)	1Aa	8° 36.00' N	84° 4.40' W
CRIS-9A	1Aa	8° 29.33' N	84° 7.69' W
CRIS-13B	1Aa	8° 44.46' N	84° 6.81' W
Alternate Sites:			
CRIS-19A (for U1381)	1Aa	8° 30.23' N	84° 13.53' W
U1378 (aka CRIS-3B, for U1380)	1Aa	8° 35.54' N	84° 4.63' W
CRIS-12B (for U1380)	1Aa	8° 36.45' N	84° 4.19' W
U1379 (aka cris-4A, for cris-13B)	1Aa	8° 40.85' N	84° 2.02' W
CRIS-14A (for CRIS-13B)	1Aa	8° 44.50' N	84° 9.51' W
CRIS-15B (for CRIS-13B)	1Aa	8° 42.78' N	84° 8.77' W
CRIS-20A (Contingency if time)	1Aa	8° 57.38' N	84° 3.80' W

(Dropped From Previous Review: CRIS 5A, CRIS 6A, CRIS 7A, CRIS 8A, & CRIS 11A)

Completeness:

1A: All required data are in the Data Bank and have been reviewed by SCP.

Data Adequacy:

a: Data image the target adequately and there are no scientific concerns of drill site location and penetration.

Proposal No. 696-Full4

Short Title Izu-Bonin-Mariana Deep Forearc Crust

Lead Proponent Julian Pearce

SCP Watchdogs Will Sager, Andrew Gorman, Andrew Goodliffe

SCP Conflicts none

Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

Site	Classification	Latitude	Longitude
BON-1	3B	28°27.0'N	142°45.5'E
BON-2	3B	28°24.5'N	142°36.5'E
DSDP 459 (Alternate	2Ad	17°51.8'N	147°18.1'E
site)			

Completeness:

3B (Unlikely for next FY, possible for later) No data are in the Data Bank.

2A: substantial items of required (but existing) data are not in the Data Bank.

Data Adequacy:

d: Data are not properly annotated and/or well-enough organized to review.

Proposal No. 732-Full2

Short Title Antarctic Peninsula Sediment Drifts

Lead Proponent J.E.T. Channell

SCP Watchdogs Koji Kashihara, María José Jurado, David Naar

SCP Conflicts none

Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

Site	Classification	Latitude	Longitude
PEN-1A	1Bd	64° 54.12' S	69° 2.99'W
PEN-2B	1Ba	66° 16.33' S	71° 54.53′W
PEN-3B	1Bb	67° 40.09' S	74° 38.54'W
PEN-4B	1Bb	67° 51.86' S	76° 10.76'W
PEN-5C	1Bb	67° 39.41'S	77° 13.40'W
BELS-1A	1Ba	68° 56.57' S	85° 47.36'W
BELS-2C	1Ba	69° 31.85' S	93° 57.38' W
BELS-3B	1Ba	69° 31.74' S	94° 33.66'W

Completeness:

1B: A few required items are missing from the Data Bank but data are readily available.

Data Adequacy:

a: Data image the target adequately and there are no scientific concerns of drill site location and penetration.

b: Data image the target adequately but there are scientific concerns of drill site location or penetration.

d: Data are not properly annotated and/or organized enough to review.

Proposal No. 735-CPP2

Short Title Opening of the South China Seal

Lead Proponent Chun-Feng Li

SCP Watchdogs Roger Urgeles, Yasuyuki Nakamura, Gabriel Uenzelmann-Neben

SCP Conflicts Chun-Feng Li Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

Site	Classification	Latitude	Longitude
SCS-2C	2Cd	17° 20.472' N	116° 47.802' E
SCS-2D	2Cc	17° 20.652' N	116° 38.718' E
SCS-6A	2Cc	18° 21.117' N	116° 23.45' E
SCS-6B	2Cc	18° 20.167' N	116° 42.28' E
SCS-3B	2Cc	15° 23.214' N	116° 59.976' E
SCS-3C	2Cb	14° 26.766' N	116° 48.618' E
SCS-4B	2Cd	12° 55.137' N	115° 2.8326' E
SCS-4C	2Cd	12° 59.033' N	115° 9.40' E
SCS-1C	2Cd	21° 0.15' N	119° 47.1' E

Completeness:

2C: Substantial items of required data are not in the Data Bank and not believed to exist.

Data Adequacy:

b: Data image the target adequately but there are scientific concerns of drill site location or penetration.

c: Data do not image target adequately.

d: Data are not properly annotated and/or well-enough organized to review.

Proposal No. 777-APL2

Short Title Okinawa Trough Quaternary Paleoceanography

Lead Proponent Kyung Eun Lee

SCP Watchdogs David Mallinson, Gil Young Kim, Yoshihiro Ito

SCP Conflicts None
Review date 9-Aug-12

Site characterization completeness and data adequacy classification:

Site	Classification	Latitude	Longitude
OT-01A	2Cc	27° 41.63'N	126° 48.29'E

Completeness:

2C: Possibly viable proposal for next FY or later.

Substantial items of required data are not in the databank and are not believed to exist.

Data Adequacy

c: Data do not image target adequately.

Proposal No. 784-Full

Short Title Amundsen Sea Ice Sheet History

Lead Proponent Karsten Gohl

SCP Watchdogs Andrew Goodliffe, Gilles Lericolais, Ken Ikehara

SCP Conflicts Gabriele Uenzelmann-Neben

Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

Site	Classification	Latitude	Longitude
ASSE-01B	1Bc	72°55.1' S,	107°47.8' W
ASSE-02B (alt)	1Bc	72°54.2′ S,	106°20.0' W
ASSE-03B	1Bc	72°34.9′ S,	108°00.1' W
ASSE-04B (alt)	1Bc	72°33.5° S,	106°26.9' W
ASSE-05B	1Bb	72°04.6' S,	108°27.5' W
ASSE-06B	1Bc	71°53.6′ S,	105°33.1' W
ASSE-07B	2Cc	71°17.2' S,	104°45.0' W
ASSE-08B (alt)	2Cc	71°37.1′ S,	113°12.0' W
ASRE-01B	1Bc	70°14.5' S,	103°43.1' W
ASRE-02B (alt)	2Cc	70°31.7° S,	102°23.6' W
ASSW-01B (alt)	2Cc	72°59.6' S,	115°47.5' W
ASSW-02B (alt)	2Cc	72°49.0° S,	116°35.0' W
ASSW-03B (alt)	2Cc	72°30.1' S,	117°58.3′ W
ASRW-01B (alt)	2Cc	71°42.8' S,	120°27.1' W

Completeness:

- 1B. A few required items are missing from the Data Bank but data are readily available.
- 2C. Substantial items of required data are not in the Data Bank and not believed to exist.

Data Adequacy:

- b. Data image the target adequately but there are scientific concerns of drill site location or penetration
- c. Data do not image target adequately

Proposal No. 793-CPP

Short TitleArabian Sea MonsoonLead ProponentDhananjai K Pandey

SCP Watchdogs Mikiya Yamashita, Roger Urgeles, David Mallinson

SCP Conflicts Dhananjai K Pandey Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

Site	Classification	Latitude	Longitude
INDUS-01A	2Cc	17:47:36.76 N	67:59:45.15E
INDUS-02A	2Cc	17:52:52.09 N	68:36:07.95E
INDUS-03A	2Cc	16:37:21.97 N	68:43:33.70E
INDUS-04A	2Cc	16:36:53.08 N	69:21:30.92E

Completeness:

2C: Substantial items of required data are not in the Data Bank and not believed to exist

Data Adequacy:

c: Data do not image target adequately.

Proposal No. 795-Full

Short Title Indian Monsoon Rainfall in the Core Convective Region

(iMonsoon)

Lead Proponent Clements

SCP Watchdogs G. Uenzelmann-Neben, D. Mallinson, W. Sage

SCP Conflicts

Review date 9 August 2012

Site Characterization Completeness and Data Adequacy Classification:

Site	Classification	Latitude	Longitude
AA-1 (alternate)	2Ab	10°N 49' 20.184"	93°E 06' 44.037"
AA-2 (primary)	2Ab	10°N 46' 04.66"	93°E 00' 00.308"
BB-1	2Ab	18°N 55' 02.968"	85°E 40' 44.736"
BB-2	2Ab	18°N 59' 18.328"	85°E 37' 46.536"
KK-1	2Ab	15°N 10' 07.066"	71°E 19' 39.044"
KK-2	2Ab	15°N 02' 04.615"	71°E 01' 35.619"

Completeness:

2A: Substantial items of required data are not in the Data Bank but are believed to exist

Data Adequacy:

b: Data image the target adequately but there are scientific concerns of drill site location or penetration.