

EPSP 2202 Meeting Minutes

Meeting Introduction

The EPSP meeting was called to order on February 22, 2022 at 8:30 am by the Chair Barry Katz. EPSP's conflict of interest rules reviewed. The only issue identified was with APL Proposal 972 and Brandon Dugan. As per the panel's policy Dr. Dugan will participate in the discussion but will not participate in the panel's final determination. The chair also noted that there would be some minor adjustments to the order of the agenda to account for availability of proponents.

Brief self-introductions by panel members and guests were presented by those in the meeting room at TAMU as well as those online via Zoom.

Meeting attendees: Gary Acton, Jamie Allen, Alvaro Arnaiz, Torsten Bickert, Anett Blischke, Peter Blum, Stefan Buenz, Juan Pablo Canales, Dru Clark, Tim Crone, Neil Desilva, Henry Dick, Earl Doyle, Deborá Duarte, Brandon Dugan, Emily Estes, Rachel Flecker, Wolfram Geissler, Kevin Grigar, Toby Harrold, Lisa Hawkins, Javier Hernandez-Molina, Simon Holford, Martin Hovland, Julie Huber, Matias Hugo, Barry Katz (Chair), Deborah Kelley, Jochen Knies, Sebastian Krastel, Larry Krissek, Hans Christian Larsen, Leah LeVay, Rnata Lucchi, Jacek Lupa, Mitch Malone, Tim McHargue, Charna Meth, Stephen Midgley, Philippe Lapointe, Jin-Oh Park, Katerina Petronotis, Donald Potts, Timothy Reston, Brian Romans, Christa Roque, Alessio Sanfilippo, Craig Shipp, Dax Soule, Brittany Stockmaster, Dieter Strack, Lori Summa, Zhen Sun, Jiangong Wei, Trevor Williams, Michiko Yamamoto, and Alan Yang

Meeting minutes from the 2021 EPSP meeting were approved as revised.

The panel held a brief discussion on the usefulness of the SRR previews. In general, the discussion was favorable and the panel members found it useful. There was some discussion on the need for additional clarity on what the proponents need to provide to EPSP for this preview. There was a recommendation that we check with the proponents as to whether they felt the reviews were useful. The feedback received from the proponents indicated that it was useful and it should be adopted going forward.

Katerina Petronotis presented a brief summary of the technical, logistical and technical issues since the panel last met. It was clear that COVID has impacted the program, but TAMU proved their resiliency and was able to move the program forward.

Prior to moving to the formal review of the proposals Dru Clark provided some guidance on the use of the Zoom tools and the ability to call-up data from the database.

Proposals Reviewed

IODP ID	Short Title	Submitted	Summary Result
895-SRR2	Mediterranean-Atlantic Gateway Exchange	2022-01-24 20:56:15	Reviewed; changes requested
971-SRR	Kane Megamullion Deep Drilling	2022-01-25 23:00:06	Reviewed; no changes
985-SRR2	Eastern Fram Strait Paleo Archive	2022-01-28 22:03:52	Reviewed; no changes
874-SRR2	Newfoundland Neogene Sediment Drifts	2022-01-22 19:31:16	Reviewed; no changes
973-SRR	NW Africa Neogene Climate	2022-01-28 11:12:55	Reviewed; changes requested
976-SRR	North Iceland Rift Propagation	2022-01-26 23:21:05	Reviewed; changes requested
979-SRR	Arctic Atlantic Gateway Paleoclimate	2022-01-21 19:01:07	Reviewed; changes requested
955-SRR	Axial Seamount Observatory	2022-01-24 23:48:19	Reviewed; changes requested
972-SRR	New England Slope Hydrogeology (APL)	2022-01-26 05:10:16	Reviewed; changes requested

Summary Remarks

Proposal 834 AP-15A was approved as a ribbon (width 100 meters) between latitude -36.6403008, longitude 25.408890 and latitude -36.6934013 longitude 25.416998.

The tentative next EPSP meeting dates for 2023 are March 21-23 in College Station, TX. A final determination will be made following the next JRFB and SEP meetings as to whether a meeting is required.

Meeting was adjourned at 4:00 pm on February 24, 2002.

EPSP Proposal Summary

Proposal Review

A brief science presentation and the site-by-site review for new sites was presented by Rachel Flecker and Javier Hernandez-Molina. The proposal was previously presented to EPSP at its 2021 Annual Meeting. Three science objectives were noted:

- 1) Document when the Atlantic first started to receive distinct overflow from the Mediterranean and to evaluate its role in Late Miocene global climate and regional environmental change.
- 2) Recovery of a complete record of Atlantic-Mediterranean exchange before, during and after the Messinian Salinity Crisis and to evaluate the causes and consequences of this extreme oceanographic event.
- 3) Quantitatively test our understanding of the behavior of ocean plumes during periods of extreme exchange.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
ALM-01A (Primary)	37.4317 -9.5767	1567	990	990	Approved	Approved at 2021 EPSP meeting
ALM-02A (Alternate)	36.8359 -9.7481	2265	1640	1640	Approved	Approved at 2021 EPSP meeting
ALM-03A (Alternate)	37.38375 -9.593805	1627	930		Declined	Relocate at the crossing of inline 1740 and xline 5210.
EAB-02A (Alternate)	35.75518251 -2.43956525	845	1277	1277	Approved	Approved at 2021 EPSP meeting
EAB-03A (Alternate)	35.750427 -2.431305	838	1277	1277	Approved	Approved at 2021 EPSP meeting
GUB-02A (Primary)	36.699683 -7.431424	547	1464	920	Approved (to revised depth)	Depth reduced to 1750ms two-way travel time. Depth provided post-meeting.
GUB-03A (Alternate)	36.700975 -7.411174	540	1650	930	Approved (to revised depth)	Depth reduced to 1750ms two-way travel time. Depth approved post-meeting.
WAB-03A (Primary)	36.312544 -4.571213	800	1700	1700	Approved	Approved at 2021 EPSP meeting

New Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
ALM-03B-new (Alternate)	37.37711 -9.59853	1627	930	930	Approved	Substitution for ALM-03A - relocate at the crossing of inline 1740 and xline 5210.

EPSP Proposal Summary

Additional Remarks (optional)

An addendum will need to be submitted.

EPSP Proposal Summary

Proposal Review

Henry Dick presented the science and site-by-site review. The proposed program has four science objectives.

- 1) Test the seismic and geologic interpretations of the Kane OCC sub-surface structure
- 2) Test the variability of crustal architecture with decreasing melt flux in 3D
- 3) Examine hydrothermal alteration processes in lower crustal and mantle lithologies as a function of depth and temperature
- 4) Explore heterotrophic and chemolithoautotrophic lifestyles in the lower oceanic crust and upper mantle at the Kane OCC

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
KNA-01A (Primary)	23.49047 -45.38105	2315	500	1500	Approved (to revised depth)	
KNA-02A (Alternate)	23.51191 -45.37665	2473	500	1500	Approved (to revised depth)	
KNA-03A (Alternate)	23.48768 -45.36771	2413	500	1500	Approved (to revised depth)	
KNC-01A (Primary)	23.49278 -45.28650	2080	500	1500	Approved (to revised depth)	
KNC-02A (Alternate)	23.47182 -45.29118	2080	500	1500	Approved (to revised depth)	
KNC-04A (Alternate)	23.49067 -45.27670	2183	500	1500	Approved (to revised depth)	

Additional Remarks (optional)

The panel has universally approved drilling at all sites to 1500 meters to provide the shipboard party with flexibility.

EPSP Proposal Summary

Proposal Review

Renata Lucchi and Stefan Buenz presented a brief science overview and the site-by-site review. The objectives of the proposal were:

- 1) The reconstruction of the West Spitsbergen Current's variability, its influence on climate changes particularly during the late Miocene-Pliocene, late Pliocene-Pleistocene, Mid-Pleistocene, Mid-Brunhes transitions, and sub-orbital Heinrich-like events, including impact on Arctic glaciations, ice shelves development and stability, and sea ice distribution.
- 2) Constrain the spatial location of the Miocene-Pliocene transition between the Molloy mid-ocean ridge and the Svalbard continental shelf
- 3) Investigate how variability in the WSC, ice coverage and its relation to climate might have influenced the microbial populations through time and to what extent this is still affecting contemporary geochemical fluxes.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
BED-01A (Alternate)	76.521597 12.738673	1647	397	397	Approved	
BED-02A (Primary)	76.5290 12.5522	1805	365	365	Approved	
BED-03A (Alternate)	76.555122 12.930062	1502	372	372	Approved	
ISD-01C (Primary)	77.5877111 10.0937946	1330	258	258	Approved	
ISD-02A (Alternate)	77.52639 9.82167	1665	381	381	Approved	
ISD-03A (Alternate)	77.497322 9.702931	1734	387	387	Approved	
ISD-04B (Alternate)	77.52896876 9.610717278	1714	402	402	Approved	
SVR-03A (Primary)	78.27182091 5.889664598	1581	616	616	Approved	
SVR-04A (Alternate)	78.26411325 5.92309625	1590	745	745	Approved	
SVR-05A (Alternate)	78.26884806 5.909515222	1600	738	738	Approved	
VRE-01B (Alternate)	79.03208272 7.057734589	1293	618	618	Approved	
VRE-03A (Primary)	78.94844856 7.473105204	1201	738	738	Approved	
VRE-04B (Alternate)	78.9994 7.3107	1257	730	730	Approved	
VRW-02B (Alternate)	79.15870357 4.621647776	1607	677	677	Approved	
VRW-03A (Primary)	79.15984991 4.488738388	1681	696	696	Approved	
VRW-04A (Alternate)	79.15592813 4.49752965	1690	740	740	Approved	

EPSP Proposal Summary

Proposed Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
VRW-05A (Alternate)	79.14326611 4.729996632	1621	669	669	Approved	

Additional Remarks (optional)

EPSP Proposal Summary

Proposal Review

Brian Romans briefly reminded panel of the proposal's objectives and presented a site review for the site not previously presented at the 2018 EPSP meeting. The objectives are:

- 1) Determine whether the CCD fluctuations and biogenic blooms of the Oligo-Miocene reflect primarily global changes in weathering or are they driven by large-scale changes in ocean circulation and/or regional tectonics.
- 2) Establish the role of tectonics, productivity, and North Atlantic overturning circulation as potential drivers of the Middle Miocene Climatic Optimum (MMCO)
- 3) Determine whether the establishment of distinctive polar ecosystems are linked to major changes in North Atlantic ocean circulation or by a decline in pCO₂.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
NFR-01A (Primary)	40.835245 -47.721541	3320	900	900	Approved	Approved at 2018 EPSP meeting
NFR-02A (Primary)	40.889215 -47.643687	3380	300	300	Approved	Approved at 2018 EPSP meeting
NFR-03A (Primary)	40.926778 -47.589625	3500	300	300	Approved	Approved at 2018 EPSP meeting
NFR-04A (Primary)	40.967666 -47.530591	3550	300	300	Approved	Approved at 2018 EPSP meeting
NFR-05A (Primary)	41.038692 -47.516385	3550	250	250	Approved	Approved at 2018 EPSP meeting
NFR-06A (Primary)	40.085712 -47.745961	4250	475	475	Approved	Approved at 2018 EPSP meeting
NFR-07A (Primary)	40.312480 -49.670012	4420	700	700	Approved	Approved at 2018 EPSP meeting
NFR-08A (Primary)	40.185178 -49.834010	4925	700	700	Approved	Approved at 2018 EPSP meeting
NFR-09A (Alternate)	41.099113 -47.485762	3800	300	300	Approved	Approved at 2018 EPSP meeting
NFR-10A (Alternate)	40.864283 -47.880816	3280	250	250	Approved	Approved at 2018 EPSP meeting
NFR-11A (Alternate)	40.875400 -47.943644	3370	400	400	Approved	Approved at 2018 EPSP meeting
NFR-12A (Alternate)	40.868711 -47.601645	3400	300	300	Approved	Approved at 2018 EPSP meeting
NFR-13A (Alternate)	40.978834 -47.514364	3540	250	250	Approved	Approved at 2018 EPSP meeting
NFR-14B (Alternate)	40.52556 -48.70722	3710	500	600	Approved (to revised depth)	NFR-14A had been previously approved at 2018 EPSP meeting
NFR-16A (Alternate)	40.714483 -49.503335	3750	400	400	Approved	Approved at 2018 EPSP meeting

EPSP Proposal Summary

Proposed Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
NFR-17A (Alternate)	40.173750 -49.848685	5000	500		Declined	Declined at 2018 EPSP meeting
NFR-17B (Alternate)	40.156097 -49.871490	5120	500	500	Approved	Approved at 2018 EPSP meeting
NFR-19A (Alternate)	40.098776 -47.680846	4260	250	250	Approved	Approved at 2018 EPSP meeting
NFR-20A (Alternate)	39.968619 -48.959689	4620	500	500	Approved	Approved at 2018 EPSP meeting
NFR-22A (Alternate)	40.301233 -47.423836	3920	250	250	Approved	Approved at 2018 EPSP meeting
NFR-23A (Alternate)	40.195797 -47.557755	4120	250	250	Approved	Approved at 2018 EPSP meeting
NFR-24A (Alternate)	40.269925 -49.724799	4550	700	700	Approved	Approved at 2018 EPSP meeting
NFR-25A (Alternate)	39.873587 -49.097721	5070	500	500	Approved	Approved at 2018 EPSP meeting

Additional Remarks (optional)

EPSP Proposal Summary

Proposal Review

Torsten Bickert and Sebastian Krastel presented the science overview and the site-by-site review. The proposals objectives are:

- 1) Examine the NW African climate in a warmer world, with emphasis on wind systems, dust supply, precipitation and vegetation
 - a) How did African climate and vegetation respond to global warmth during the late Cenozoic?
 - b) What is the relationship between NW African hydroclimate, global warmth and Atlantic Ocean circulation?
 - c) How old is the Sahara, and what forcing mechanisms controlled its origin and evolution?
- 2) Examine ocean productivity and ecosystem response to climate perturbations
 - a) What is the marine productivity response to warmer climate conditions ?
 - b) What is the role of dust in fertilizing marine bioproduction and ballasting particle fluxes?
 - c) What are the consequences of future climate change for marine ecosystems off NW Africa?

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
NWAFR-01A (Alternate)	27.5374 -13.8459	1430	500	500	Approved	
NWAFR-02B (Primary)	24.2663 -17.1061	1590	1100	1100	Approved	
NWAFR-03B (Alternate)	24.2694 -17.1585	1690	1060	1060	Approved	
NWAFR-04A (Alternate)	20.85154 -18.41738	2140	500	500	Approved	
NWAFR-05B (Primary)	15.4865 -17.9131	2280	250	250	Approved	
NWAFR-06B (Primary)	13.5269 -18.4441	3540	500	500	Approved	
NWAFR-07A (Alternate)	18.0772 -21.0262	3069	300	300	Approved	
NWAFR-08B (Primary)	5.7587 -20.0084	2880	250	250	Approved	
NWAFR-09B (Alternate)	27.5376 -13.7022	900	650	650	Approved	
NWAFR-10B (Alternate)	20.5454 -18.0512	900	550	500	Approved (to revised depth)	
NWAFR-11B (Alternate)	12.4293 -18.0054	3001	300	300	Approved	
NWAFR-12C (Alternate)	18.7383 -21.0029	3180	300	300	Approved	
NWAFR-13A (Alternate)	5.6742 -19.8437	2865	250	250	Approved	
NWAFR-14A (Primary)	17.9509 -20.8328	2850	300	300	Declined	Replaced by NWAFR 18B to circumvent channel fill at 400-4050 msec on seismic line MSM87-123-124
NWAFR-15A (Alternate)	27.5374 -13.9646	1690	500		Declined	Relocate to SP9800 on line GeoB09-063.

EPSP Proposal Summary

Proposed Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
NWAFR-16A (Alternate)	23.9990 -20.0008	3728	300	300	Approved	
NWAFR-17A (Alternate)	23.1672 -21.1691	4330	300	300	Approved	

New Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
NWAFR-18B-new (Alternate)	17.9465 -20.8300	2860		300	Approved	New site added during the EPSP meeting discussion. Located at CDP5025 on line MSM87_114. The proponents have requested that this site be positioned at CDP5050 on line MSM87_114. Hence it has been renamed NWAFR-18B. It is positioned 80 from the originally proposed location. Any objections should be reported during minutes review.
NWAFR-15B-new (Alternate)	27.5373 -13.9881	1735		500	Approved	Replaces Site NWAFR-15A new site location SP9800 on line GeoB09-063.

Additional Remarks (optional)

An addendum will need to be submitted.
Complications may exist in obtaining approval for some of the sites located in Western Sahara waters.

EPSP Proposal Summary

Proposal Review

Hans Christen Larsen and Anett Blischken presented a brief science overview and the site-by-site review. The objectives for the proposal were:

- 1) Test the model that explains the formation of the Iceland Plateau by northward propagation of rifting from the Iceland Plume.
- 2) Investigate the nature and compositional changes of the mantle source, mantle potential temperature, and possible continental lithosphere contaminants during the time of rift propagation and into the early history of the Kolbeinsey Ridge.
- 3) Develop geodynamic models of thermochemical plumes originating near the core-mantle boundary, and the melting processes and mantle.
- 4) Sampling of the sub-Arctic Oligocene record of the transition into the ice-house world within an important conduit for Atlantic-Arctic oceanic exchange.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
IPI-01A (Primary)	67.055214 -8.307984	1241	410	500	Approved (to revised depth)	As requested by the proponents washdown was approved because of the proximity to Site 350.
IPII-01B (Primary)	67.61727028 -8.75158581	1580	782	850	Approved (to revised depth)	
IPIII-01A (Alternate)	67.798970 -9.848865	1746	699	800	Approved (to revised depth)	
IPIII-02A (Alternate)	68.649419 -8.189013	2023	502	550	Approved (to revised depth)	
IPIII-03A (Primary)	67.57133108 -10.68247975	1742	491	600	Approved	
IPIV-01A (Primary)	67.586210 -12.253577	1739	392	650	Approved (to revised depth)	
IPIV-02A (Alternate)	69.464838 -9.858744	2168	404	500	Approved (to revised depth)	
IPIV-03A (Alternate)	67.60501609 -12.34485635	1759	378		Declined	Relocate to CDP 6028 on line RC2114-208.
KR-01B (Primary)	69.212519 -12.762229	1827	312	400	Approved (to revised depth)	Permission to washdown was granted.
PKR-01B (Alternate)	69.684462 -10.410205	1852	518	570	Approved (to revised depth)	

EPSP Proposal Summary

Proposed Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
PKR-02A (Primary)	69.27684435 -10.6849484	1666	741	850	Approved (to revised depth)	EPSP did not approve the requested washdown, but did approve a spot coring program with appropriate monitoring.
PKR-03A (Alternate)	69.31682687 -10.54914683	1777	580	650	Approved	
SRCT-01B (Primary)	68.15934198 -8.52727024	1494	504	550	Approved (to revised depth)	
SRCT-01C (Alternate)	68.17090255 -8.59329336	1386	646	646	Approved	

New Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
PKR-04A-new (Alternate)	69.320277 -10.549557	1896	580	650	Approved (to revised depth)	Suggested as a better location than PKR-03A positioned at CDP8465 on line JM-11-0004.
IPIV-03B-new (Alternate)	67.604166 -12.359695	1747	450	450	Approved	Relocated from IPIV-03A to CDP6028 on line RC2114-208.
IPIII-04A-new (Alternate)	68.650171 -8.189013	2037	600	600	Approved	Replacement of IPIII-03A. Positioned at CDP6686 on line JM85-16.

Additional Remarks (optional)

Addendums need to be submitted for the three new sites.

EPSP Proposal Summary

Proposal Review

Wolfram Geissler and Knies Jochem presented the science overview and the site-by-site review. The objectives of the proposal are:
 1) Constrain the geological history of the only deep-water connection to the Arctic Ocean and its impacts on the Earth's Cenozoic climate evolution.
 2) Understand the role of the Arctic-Atlantic Gateway (AAG) region for the cryosphereocean evolution of the Northern Hemisphere.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
FR-02A (Alternate)	77.2243 1.0292	3206	900	900	Approved	
FR-03A (Alternate)	73.3562 -14.3341	2431	1000	1050	Approved	Deepened to accommodate rathole.
FR-04A (Alternate)	75.2967 -11.3048	1600	1300	1250	Approved	
FR-05A (Primary)	75.2487 -11.0376	2089	1300	1300	Approved	
FR-06A (Alternate)	75.2197 -10.8764	2423	1300	1300	Approved	
FR-07A (Alternate)	76.5909 -1.3729	2991	800	800	Approved	
FR-08A (Alternate)	77.2158 1.0756	3205	1020	1020	Approved	
FR-09A (Alternate)	77.1737 1.3165	3206	1020	1020	Approved	
FR-10A (Alternate)	77.1173 1.6345	3198	420	420	Approved	
FR-11A (Primary)	76.4472 -0.6448	3102	800	800	Approved	
FR-12A (Alternate)	76.9056 -2.1056	3058	800	800	Approved	
FR-14A (Alternate)	76.4906 -0.0024	3171	800		Declined	
FR-15A (Alternate)	73.4006 -14.1015	2468	1000	1050	Approved	
FR-16A (Alternate)	73.2257 -14.2778	2464	1000		Declined	Move to CDP 1116 on line AWI-20090310.
FR-17A (Alternate)	73.1662 -14.2056	2484	1000		Declined	Move to CDP 700 on line AWI-20090315.
FR-19A (Primary)	73.4605 -14.3375	2358	1000		Declined	Move to CDP 3770 on line AWI-20030586.

EPSP Proposal Summary

Proposed Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
FR-21A (Primary)	77.3946 0.0499	2843	300	300	Approved	Deepening into basement is permitted.
FR-23A (Alternate)	77.2407 1.5023	3192	520	520	Approved	
FR-24A (Alternate)	77.1387 0.8986	3190	780	950	Approved	

New Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
FR-19B-new (Primary)	73.4444 -14.3669	2341	1000	1050	Approved	Moved from FR-19A to CDP 3770 on line AWI-20030586.
FR-16B-new (Alternate)	73.2336 -14.2682	2468	1000	1050	Approved	Move FR-16A to CDP 1116 on line AWI-20090310.
FR-17B-new (Alternate)	73.1671 -13.8466	2549	1000	1050	Approved	Move FR17A to CDP 700 on line AWI-20090315.

Additional Remarks (optional)

An addendum will need to be presented.

EPSP Proposal Summary

Proposal Review

Julie Huber and Tim Crone presented the science overview and the site review. The proposals objectives are:

- 1) Determine the distribution and composition of crustal seafloor microbial communities, their association with mineral assemblages, rates of activity, and role in biogeochemical cycling of carbon, iron, nitrogen, hydrogen, and sulfur.
- 2) Determine the 4-D architecture of an active hydrothermal system and understand how the connectivity of the hydrological, chemical, and physical properties of the upper oceanic crust are linked to magmatic and tectonic deformation through a volcanic cycle,
- 3) Determine the temporal characteristics and nature (structure, composition, hydrostratigraphy) of the upper oceanic crust in an active mid-ocean ridge volcanic setting, including host rock petrology, geochemistry, alteration, and physical properties.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
AXIAL-01B (Primary)	45.925800 -129.978800	1520	325	325	Approved	Approved to requested depth or bit destruction whichever is greater.
AXIAL-02B (Primary)	45.923931 -129.978170	1523	325	325	Approved	Approved to requested depth or bit destruction whichever is greater.
AXIAL-03B (Primary)	45.924054 -129.973988	1530	325	325	Approved	Approved to requested depth or bit destruction whichever is greater.
AXIAL-04B (Primary)	45.919632 -129.976725	1533	50	50	Approved	Approved to requested depth or bit destruction whichever is greater.
AXIAL-06A (Alternate)	45.921980 -129.968270	1543	325	325	Approved	Approved to requested depth or bit destruction whichever is greater.
AXIAL-07A (Alternate)	45.915250 -129.975270	1545	50	50	Approved	Approved to requested depth or bit destruction whichever is greater.
AXIAL-08A (Alternate)	45.925800 -129.972350	1533	325	325	Approved	Approved to requested depth or bit destruction whichever is greater.

New Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
AXIAL-09A-new (Alternate)		1533	325	325	Approved	Panel approved all locations within the box. Drilling approved within region bounded by: 45.9275 (northern latitude), 45.9140 (southern latitude), -129.9640 (eastern longitude), -129.9834 (western longitude).

EPSP Proposal Summary

Additional Remarks (optional)

An option was provided to the proponents to submit a polygon that would include the proposed sites. This would provide expanded options to the science party.

All sites were approved to the requested depth or bit destruction, whichever is greater.

EPSP Proposal Summary

Proposal Review

Brandon Dugan presented the science overview and the site-by-site review. The objectives of the proposal are:
 1) Obtain a direct characterization of processes acting in the shallow seafloor that drive seepage from the slope into the ocean, which can be used in calibration for process-based models that account for driving forces and temporal evolution of these dynamic.
 2) Examine linkages between freshwater in the shelf, active seepage on the slope, and slope erosive processes.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
MVS-03A (Primary)	39.8427 -69.6265	932	500	500	Approved	Coordinates need to be provided for the corners of a box that are located 175 meters from the original latitude (39.8427) and longitude (-69.6265). Drilling approved within region bounded by: 39.8443 (northern latitude), 39.8411 (southern latitude), -69.6245 (eastern longitude), -69.6285 (western longitude).
MVS-04A (Primary)	40.0093 -69.2678	162	500	500	Approved	

Additional Remarks (optional)

An addendum will need to be submitted.