

The Proposal Review and Advisory Process

Review Procedures
(DM and DK)

Review procedures: Highlights from the SEP Terms of Reference

The SEP is responsible for selection of the best and most relevant proposals for forwarding to the JRFB or other Facility Board

The SEP also advises the FBs and Forum on any shortcomings of the proposal pool with respect to themes and challenges of the IODP Science Plan, and makes suggestions for stimulating proposal pressure in those areas (see also Forum chair's report)

Evaluation of revised Proposals submitted the 1st of October 2014

P#	Type	Title	Possible destinations
618	Add5 (Full3)	East Asia Margin	Letter to FB
760	Full	SW Australia Margin Cretaceous Climate	Forward to JRFB/ excellent/co-chief nom.
770	Add (Full3)	Kanto Asperity Project: Observatories	Stays in HB
771	Full2	Iberian Margin Paleoclimate	External review
818	Full	Brothers Arc Flux	Revise 'fast' ?
834	Full	Agulhas-Transkei Transect	Revise
835	Full	Japan Trench Tsunamigenesis	Revise
841	APL2	Creeping Gas Hydrate Slides	HB
857	MDP2	DREAM: Mediterranean Salt Giant	Stays in SEP: develop daughter proposals
865	Full	Nankai Trough Temperature Limit	Forward to CIB/ excellent/co-chief nom.

	: Came back from external review
	: Revised
	: New

P#	Type	Title	Possible destinations
866	Pre	Japan Trench Paleoseismology	Develop into Full
867	pre	Red Sea Plio-Pleistocene	Deactivate
868	Full	Drake-Scotia paleoclimate	Deactivate
869	Pre	Pacific Meridional Overturning Circulation	Deactivate
870	Pre	Rio Grande Rise Origin	Deactivate
871	Pre	Lord Howe Rise Crustal Evolution	Develop into Full
872	Pre	Manus-Basin sulfide deposit	Deactivate
873	Pre	Drake Passage Plio-Pleistocene paleoceanography	Deactivate
874	Pre	Neogene Newfoundland Sediment Drifts	Develop into Full
875	Pre	Brazilian Equatorial Margin Paleoceanography	Develop into Full
876	Pre	Bend-Fault Serpentinization	Develop into Full (send to CIB)
877	Full	High-resolution Indian Monsoon	Deactivate (Reject)
878	CPP	South China Sea Rifting	Holding Bin
879	Full	Corinth Active Rift Development	External review
880	APL	Experiment: Drilling parameters for Lithology	Revise
881	Pre	Sao Paulo Plateau magmatic system	Deactivate
882	Pre	Brazilian Equatorial Margin Tectonics	Develop into Full
883	Pre	Walvis Ridge Hotspot	Deactivate
884	CPP	Southern Australia Cretaceous Anoxia	Revise

Proposals submitted for 2015 April 1 deadline

Prpsl#	Type	Title	Possible Destinations
730	Full2	Sabine Bank Sea Level	External review
771	Add (Full2)	Iberian Margin Paleoclimate	JRFB: excellent
796	ADP	NADIR: Nice Amphibious Drilling	Revise
832	Full2	Tasman Frontier subduction	External review
834	Full2	Agulhas-Transkei Transect	External review
847	Full2	Drake Passage paleoenvironment	Deactivate
852	CPP	North Sea GlaciStore	Revise
857A	Full	DREAM: Deep-Surface Connection	Deactivate
878	Add	South China Sea Rifting	scheduled
879	Full	Corinth Active Rift Development	HB
885	Pre	Ulleung Basin Gas Hydrates	Full
886	Pre	NW Pacific Bend-Fault Hydrology	Full
887	CPP	Gulf of Mexico Methane Hydrate	Revise
888	Full	Aleutian Basin Formation	Revise
889	Pre (ADP)	HAITI-DRILL: Sliding-Doors Fault Sy	Deactivate

	: Back from external review
	: Revised
	: New

Proposal_Nu mber	type	title	PI	Response	Since Latest	Since1 st	SHIP		
635	Full3	Hydrate Ridge Observatory	Marta E. Torres	"Agree that this old proposal is obsolete and should probably be deactivated."	8	12	JR		
658	Full2	North Atlantic Volcanism and Paleoclimate	Sverre Planke		8	11	JR		
692	Full	Flemish Cap Rifted Margin	John R. Hopper	No response Responded once. (emails exchanged to track down PI's whereabouts.)	8	10	JR		
680	Full	Bering Strait Climate Change	Sarah J. Fowell	"Need it active, now working to get NSF funding for new site survey"	7	10	MSP		
703	Full	Costa Rica SeisCORK	Kevin Brown	"Want it active for now. Searching funding but stuck in. Would deactivate when no chance confirmed. "	7	10	JR		
740	Full	Galicia Margin Rift History	Timothy J. Reston	"Will submit a new pre-proposal as successor or revised version for next October deadline"	7	7	JR		
750	Pre	Beringia Sea Level History	Leonid Polyak	No response	7	7	MSP		
659	Full	Newfoundland Rifted Margin	Donna J. Shillington	No response	6	11	JR		
754	Full2	Norwegian Sea Silica Diagenesis	Richard Davies	"Planning to submit a revision and change PI. Discussing with co-proponents"	6	6	JR		
756	Pre	Arctic Ocean Exit Gateway	Martin Jakobsson		6	6	MSP		
761	Pre	South Atlantic Bight Hydrogeology	Alicia Wilson	"Still good proposal. Started the discussion how to collect more site survey data " "Let's deactivate now. Will get restarted in one or two years for a new proposal"	6	6	MSP		
753	Pre2	Beaufort Sea Paleooceanography	Matthew O'Regan	"Will discuss with co-proponents" (PI was at sea, found the message on 6/28)	5	7	JR		
772	APL2	North Atlantic Crustal Architecture	Masako Tominaga	"Withdraw P772. Will submit a new proposal in the future."	5	6	JR		
<p>The SEP recommends deactivation of the following dormant proposals (i.e., no proposal activity within the previous five years), with the statement that proponents are encouraged to resubmit:</p>					Years from their last submission	Years from their 1st submission			
	635-Full	740-Full	754-Full2	753-Pre2					
	658-Full	750-Pre	756-Pre	772-APL2					
	692-Full	659-Full	761-Pre						
<p>Deactivation is recommended so that proponents can update the science, objectives and hypotheses, allowing resubmissions to remain competitive.</p>									

Discussion

- Present classification scheme

- Requires significant explanation every time it's used.
- Does not provide immediate understanding of the status of a site with respect to readiness; may send conflicting messages.
- E.g., is a 1Cd ready to drill? The “1” indicates it's presently viable, but the “d” indicates the data cannot be reviewed.
- For the “2” class, what constitutes “substantial items”?

Review Procedures:

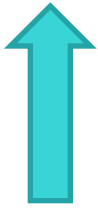
Characterizing the Site Survey Data: Site survey data are characterized based upon completeness and adequacy:

ADEQUACY 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 (e.g., faults, MTDs, missing sections, etc.).
- c.** Data do not image the target adequately (proponents may need to simply reprocess data, or they may need to acquire new data).
- d.** Data are not properly annotated and/or well-enough organized to review.

Objective: to develop the data package so that the proposal may be forwarded to the Facility Board (FB)

Forward
to FB



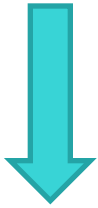
①

Data reviewed by SEP are sufficient to support the drilling effort and there are no further concerns

②

Data reviewed by SEP are sufficient to support the drilling effort, but minor concerns require follow-up by proponents (specify in text)

Holding Bin,
Revise or
Deactivate



③

Data reviewed by SEP are insufficient to support the drilling effort, but other data are believed to exist; and/or data are not annotated or organized sufficiently to fully review, or there are scientific concerns

④

Data reviewed by SEP are insufficient to support the drilling effort, and additional data are not believed to exist

⑤

No data have been reviewed by SEP

“Insufficient” indicates that the data package is not sufficient to convince the SEP that the scientific objectives can be addressed. For example: ① the data package may lack items that are fundamental to determining the correct site location or target depth; ② the data may be of insufficient resolution to demonstrate the existence of targeted strata; ③ the data may not demonstrate unequivocally that the proposed locations are correct (e.g. sites are not plotted correctly or mismatches exist between navigation files and proposed locations); ④ site locations are deemed to be inadequate for addressing the objectives (e.g. missing critical sections, misinterpretations, science or safety concerns, etc.).

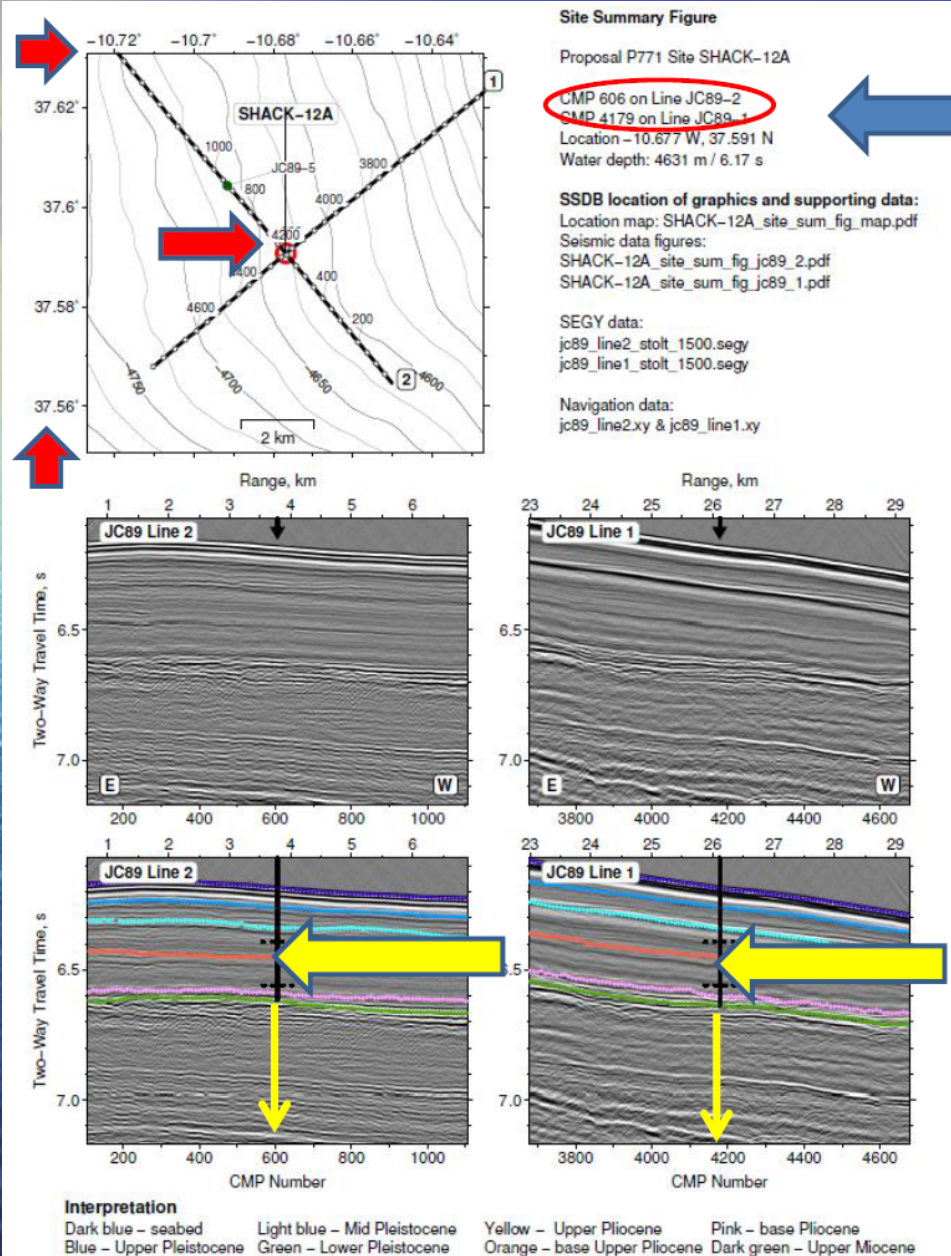
“Minor concerns” may include missing items or questions that do not affect the assessment that drilling is warranted at proposed sites, meaning the objectives can be met based on existing data despite the concerns. Examples include: ① missing image files (e.g. bathymetry); ② minor issues with velocity that may slightly affect the proposed depth of penetration; ③ minor navigation issues. These can be addressed while proposal resides at the FB.

● Data formats for the guidelines

Digital Seismic	SEG-Y
Images (Graphics)	JPEG, GIF, TIFF, PDF, PNG
Tables	PDF, ASCII/plain text, RTF, CSV
Video	AVI, DV, MPEG, Quicktime movie (MOV)
Digital Maps	NetCDF, ASCII XYZ, GMT GRD, ARC GRD, Fledermaus SD or scene
Logging Data	LAS, LIS, ASCII/plain text
Echosounder	KEB, SEG-Y (suggest removing KEB)
Navigation	CSV, ASCII/plain text, UKOOA, SEG-P1, MGD77
Velocity	ASCII/plain text, JPEG, GIF, TIFF, PDF, PNG

- SEG-Y files - Should we require a table showing byte location of data?
- Formats for digital maps; Are these too many? Should we allow Arc Shapefiles?
- Navigation data – should we restrict to decimal degrees? Reduce number of formats?
- Format for velocity (models? Semblance plots?)
- Other issues?

Demo dataset



CMP (or SP) position of site on seismic data

CMP (or SP) position of site on seismic data (both lines), site summary form 2, and navigation file. Crossing lines position matches position of site.

Map units are in decimal degrees and match the navigation file.

CMP position of site agrees with position indicated on site summary form 2, and navigation file.

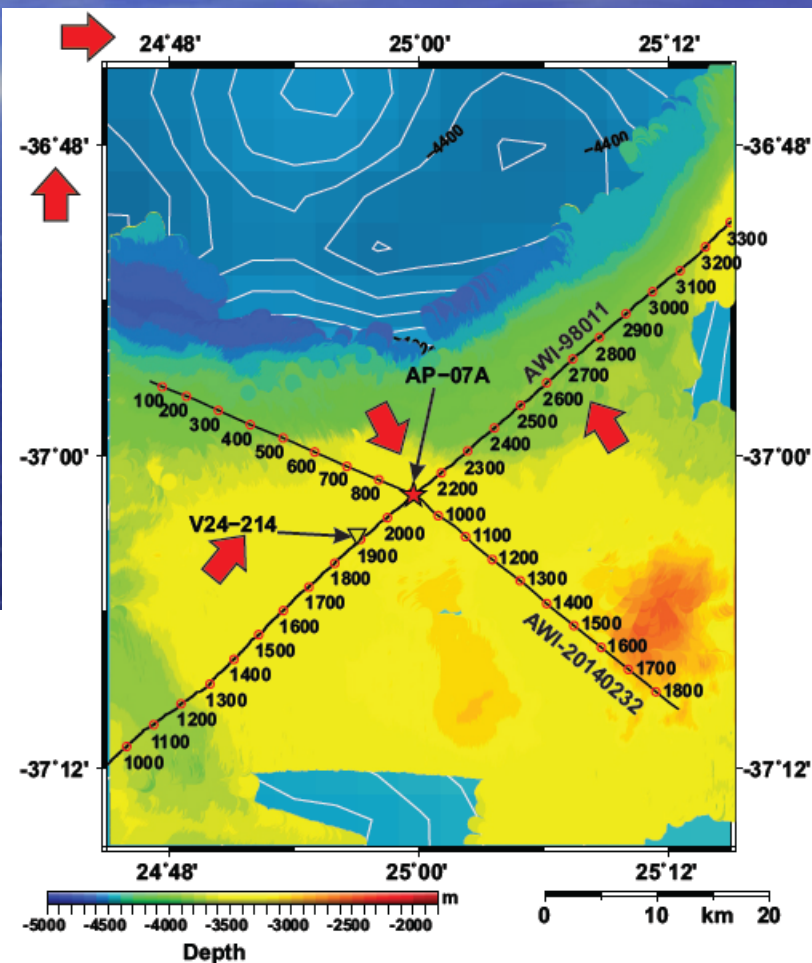
Navigation file contains CMP, SP, latitude, and longitude. This must agree with information on site summary form 2 and the map. Lon/Lat in decimal degrees. Navigation file must be available for each seismic line and for the whole seismic lines

# CMP	SHOT	LAT	LON
57	1	-41.5699005	24.3428001
58	1	-41.5699005	24.3428001
59	1	-41.5699005	24.3428001
60	1	-41.5699005	24.3428001
61	1	-41.5699005	24.3428001
62	1	-41.5699005	24.3428001
63	1	-41.5699005	24.3428001

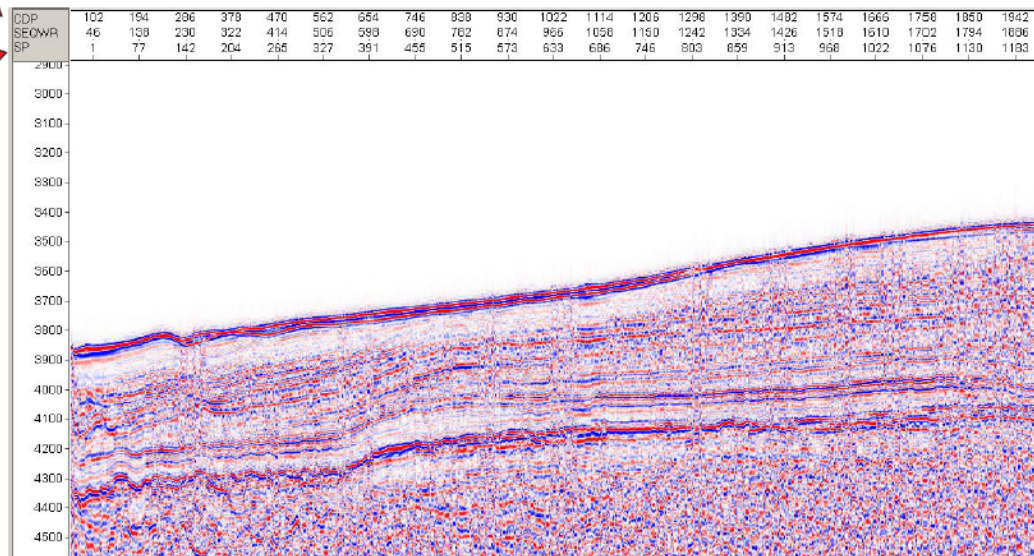
Multibeam bathymetry file contains longitude, latitude, and water depth. Lon/Lat in decimal degrees.

# LON	LAT	water depth
015.6970798	-37.1435637	-4724.000
015.6986643	-37.1448691	-4761.000
015.7003194	-37.1462325	-4780.000
015.7020374	-37.1476477	-4780.000
015.7040065	-37.1492696	-4727.000
015.7054735	-37.1504780	-4742.000
015.7066895	-37.1514795	-4794.000
015.7082587	-37.1527718	-4774.000
015.7097023	-37.1539607	-4767.000
015.7111460	-37.1551496	-4749.000

- detailed map for each proposed site with
 - a) regional bathymetry,
 - b) measured multibeam bathymetry,
 - c) labelled seismic lines relevant for the proposed site,
 - d) marked CMPs (or SPs), which match the position on seismic data, site summary form 2, and navigation file
 - e) geological cores/samples
- map unit are in decimal degrees and match navigation file
- scale for multibeam bathymetry and distance
- size of map ca 30*30'



- digital seismic data in IBM Float SGY format
- no gain applied!
- CMP and SP as header words, those must match values given on site summary forms 2 and 6, maps and seismic images
- text header giving information on acquisition and processing status
- digital files should cover the whole seismic line, not just immediate vicinity of proposed site; SEP may want to provide help in relocating the site, if necessary; for this the whole profile is needed



Summary	Text Header	Bin Header	Trace Header	Trace Data	Spectrum
Summary information					
File : C:\Users\wenzel\plans\Agulhas Plateau_drilling\SSDS_files					
SEG-Y File					
EBCDIC Text Header Encoding					
Big Endian byte order					
# Traces	:	2910			
# Trace Samples	:	6000			
Sample Format	:	1			
	:	IBM Float (32 bit)			
Sample Interval (uS)	:	1000			
Time Length	:	5999			
Header First trace Last trace					
SP	1	1775			
CDP	57	2966			
FPID	2	1780			

Summary	Text Header	Bin Header	Trace Header	Trace Data	Spectrum
C 1	COMPANY: ALFRED WEGENER INSTITUTE				
C 2	AREA: Agulhas Plateau				
C 3	LINE: ANI-98018				
C 4	START: 1998/01/21 15:02:00				
C 5	END: 1998/01/21 22:39:00				
C 6	SOURCE: 2 GI-AIRGUN 1.4L				
C 7	INSTRUMENT: EG&G GEOMETRICS				
C 8	SAMPLE INTERVAL: 1 MS				
C 9	RECORDLENGTH: 6 S				
C 10	RECORDING FORMAT: SEG-D				
C 11	ALIAS FILTER: 180 HZ				
C 12	RECEIVER: 96 CHANNEL STREAMER				
C 13	DISTANCE SOURCE-1stCHANNEL: 200M				
C 14	HYDROPHONE GROUP SPACING: 25 M				
C 15	DATA SORTED BY CDP				
C 17	PROCESSING SEQUENCE:				
C 18	1. DEMULTIPLEX				
C 19	2. EDITING				
C 20	3. CDP SORTING				
C 21	4. SPHERICAL DIVERGENCE CORRECTION				
C 23	6. NMO CORRECTION				
C 27	10. STACK				
C 28	11. TIME MIGRATION (OMEGA_X)				
C 29	12.				

SEP Member Rotation 2015

- Science

- Beth Christensen (US)
- Peter Clift (US)
- Jörg Geldmacher (ECORD)
- Verena Heuer (ECORD)
- Dick Kroon (Co-Chair)
- Lisa McNeill (ECORD)
- Tomoaki Morishita (Japan)
- Koichira Obana (Japan)
- John Tarduno (US)

- Site

- Jamie Austin (US)
- Roger Flood (US)
- Mads Huuse (ECORD)
- David Mosher (ECORD)
- Derek Sawyer (US)



Next SEP at Scripps early
January 2016