

EPSP 1902 Meeting Minutes

Meeting Introduction

Meeting was called to order at 8:30 on February 12, 2019 at Texas A&M University by Barry Katz.

Mitch Malone presenting a brief safety and meeting logistics overview.

Attendees were: Paul Baker, Laurel Childress, Brad Clement, Jerry Dickens, Neil DeSilva, Earl Doyle, Brandon Dugan, Helen Feng, Sheri Fritz, Kevin Grigar, Sean Gulick, Lisa Hawkins, Tobias Hoefig, Martin Hovland, Barry Katz, Marcelo Ketzer, Denise Kulhanek, Leah LeVay, Jacek Lupa, Alberto Malinverno, Mitch Malone, Tim McHargue, Clive Neal, Donald Potts, Tadev Reis, Craig Shipp, Cleverson Silva, Brittany Stockmaster, Dieter Strack, Trevor Williams, and Carlos Alvarez Zarikian.

Proposals Reviewed

IODP ID	Short Title	Submitted	Summary Result
859-SRR3	Amazon Margin Drilling	2019-01-24 21:18:22	Reviewed; no changes
910-SRR2	Continental Margin Methane Cycling: Rio Grande	2019-01-28 22:01:36	Reviewed; no changes

Summary Remarks

Next EPSP meeting is planned for Sept 4-5, 2019 at Texas A&M University, College Station, TX.

Meeting was adjourned at 4:00

EPSP Proposal Summary

Proposal Review

Cleverson Silva presented a brief overview of the scientific rationale and objectives of 859 (Amazon Margin Drilling). The expedition's aim were:

- 1 - obtain the longest and most continuous record of Cenozoic South American climate
- 2 - reconstruct oceanographic conditions of the western tropical Atlantic
- 3 - generate a continuous palynological record of biodiversity from the early Cenozoic until the establishment of the trans-continental Amazon in the late Cenozoic.
- 4 - determine the timing of the onset of trans-continental drainage of the proto-Amazon River into the Atlantic and the changing discharge
- 5 - provide critical biostratigraphic control for correlations among Trans-Amazon Drilling Project sites in the Marajo and Amazonas basins
- 6 - Test hypothesis on the origins and extinctions of biota in tropical South America in the context of changing climate, hydrology, tectonics and oceanography.

This overview was followed by a site-by-site review.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
AM-03C (Primary)	4.6628 -50.0231	434	1536	1400	Approved (to revised depth)	Reduced from request by 200 meters
AM-04B (Alternate)	4.628938222 -50.08949344	227	2176	2100	Approved	Water depth 233m. Requested penetration depth corrected per Addendum-2.
AM-05A (Alternate)	4.590211167 -50.06301725	208	1591		Other	Not presented reported as AM-05B
AM-06A (Alternate)	4.620270472 -50.00417692	383	1705	1320	Declined	Relocated post-meeting to inline2129 cross-line 1200
AM-07A (Primary)	5.073426194 -50.40431625	373	2203	2203	Approved	Water depth revision - 358m
AM-08A (Alternate)	4.68465323 -50.09770589	291	1605	1149	Approved (to revised depth)	Water depth changed to 301m. Requested drill depth 1450m.
AM-09A (Alternate)	4.604061167 -50.03590653	281	1668		Other	Removed from consideration.
AM-10A (Alternate)	4.949105111 -50.25615075	475	2236		Approved (to revised location)	
AM-11A (Primary)	4.76049915 -50.18515796	289	1995	1800	Approved	Revised water is 277. Requested penetration 1800mbsf.
AM-12A (Alternate)	4.71438277 -50.13066275	291	2213		Other	
AM-13A (Alternate)	4.69819453 -50.11117101	312	1519	1400	Approved (to revised depth)	Revised water depth 301m. Requested drilling depth 1400 mbsf.

New Sites

EPSP Proposal Summary

New Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
AM-05B-new (Alternate)	4.68077 -50.04370	419	1550	1550	Approved (to revised location)	Addendum has been forwarded.
AM-06B-new (Alternate)	4.617034 -50.010314	366	1650	1650	Approved	New site positioned following post-meeting discussion with proponents. Positioned at inline 2129 and cross-line 1200.
AM-15A-new (Alternate)	4.68969 -50.08739	330	1395	1240	Approved (to revised location)	Addendum has been provided. Moved to XL1041 on IL2571. Depths have been modified based on Addendum-2. May need to be reexamined.
AM-10B-new (Alternate)	4.94281 -50.26368	432	2300	2300	Approved (to revised location)	Addendum will need to be submitted.
AM-14A-new (Primary)		353	2200		Declined	
AM-12B-new (Alternate)	4.73043 -50.11623	346	1344	1400	Approved (to revised location)	Addendum has been forwarded. Depths have been changed as per Addendum-2.
AM-14B-new (Alternate)	5.00429 -50.35199	342	2200	1536	Approved (to revised location)	Addendum submitted. XL1770 on IL7596. Ship positioning needs to be to the southwest. There are concerns moving multiple holes to the northeast. Drilling depths have been modified. There may be a need for further modification.

Additional Remarks (optional)

Consider a larger area for the time slices for shipboard information. Consider dip (gradient) map of seafloor event to help with potential shipboard decisions. Addendums have been submitted by the proponents for sites AM-05B, AM-15A, AM-10B, AM-12B, and AM-14B.

Numerous changes were made in the Addendum that do not appear to be in full alignment with EPSP actions. The reported depths were developed merging the meeting minutes and Addendum-2. As a result there may be a need for a representative of the proposal to attend the September 2019 EPSP meeting to clarify those cases where there are the most significant changes - AM-06A, AM-10B, and AM-14B.

EPSP Proposal Summary

Proposal Review

Alberto Malinverno presented the scientific overview of 910 (Continental Margin Methane Recycling: Rio Grande). The stated objectives are:

- 1 - determine the prevailing microbial methanogenesis pathway
- 2 - establish the vertical distribution of microbial methane generation
- 3 - compare methanogenesis rates predicted by reaction-transport modeling constrained by pore water chemistry and incubation experiments
- 4 - contrast variations of microbial methane generation and hydrate abundance
- 5 - determine the different reactions leading to chemical and isotopic changes at the SMTZ
- 6 - characterize the time-dependent input of POC by providing a record of past productivity

This was followed by a site-by-site review.

Proposed Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
RGC-01C (Primary)	-32.94865 -49.88057	1159	500	500	Approved	
RGC-02C (Alternate)	-33.21597 -49.66411	1368	500	500	Approved	Trip out slowly.
RGC-03C (Primary)	-33.65803 -50.15192	1505	500	500	Approved	
RGC-04C (Alternate)	-33.5006 -50.34727	914	500		Declined	
RGC-05C (Primary)	-33.43466 -50.45741	607	200	200	Approved	
RGC-06C (Alternate)	-32.79565 -49.87302	1257	500		Declined	
RGC-07C (Primary)	-33.58388 -49.22675	2972	800	800	Approved	
RGC-08C (Alternate)	-33.92741 -49.81531	2664	800	800	Approved	
RGC-09B (Alternate)	-33.01200 -49.80825	1219	500	500	Approved	
RGC-10B (Primary)	-32.77458 -49.85012	1299	500	500	Approved	Hole's actual depth limited to mud availability. Depth limited to 500 meters. The "B" hole will need confirmation of the absence of sand. Without confirmation by log or core the mud limitation holds. This will be the last site in order to be drilled.
RGC-11A (Alternate)	-33.66913 -50.16478	1484	500	500	Approved	
RGC-12A (Alternate)	-33.46151 -49.09352	2993	800	800	Approved	
RGC-13A (Alternate)	-33.42207 -50.44317	608	200	200	Approved	
RGC-14A (Alternate)	-33.44959 -50.47509	607	200	200	Approved	
RGC-15A (Alternate)	-32.74982 -49.92467	1219	500		Declined	

EPSP Proposal Summary

Proposed Sites - Continued

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
RGC-16A (Alternate)	-33.15918 -48.9736	2938	800	800	Approved	

New Sites

Site Name	Position (Lat, Lon)	Water Depth (m)	Requested Drilling Depth (m)	Approved Depth (m)	EPSP Decision	Remarks
RGC-04D-new (Alternate)	-33.50588 -50.435317	918	500	500	Approved (to revised location)	CDP 2800 on line 0277-0229. An addendum has been provided.
RGC-06D-new (Alternate)	-32.81415 -49.85168	1276	500	500	Approved (to revised location)	Operationally part of the last group of sites to be drilled. CDP 5300 on line 0277-0258. An addendum has been filed.
RGC-15B-new (Alternate)	-32.74634 -49.93266	1213	500	500	Approved (to revised location)	CDP 3530 on line GB01--159. An addendum has been filed.

Additional Remarks (optional)

Please reexamine the backscatter data processing. The images provided show very little detail. Addendums have been provided for sites RGC-04D, RGC-06D, and RGC-15B.