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Line Name: EPR3D2252P		NAVIGATION		DATE: 23/07/08																
Line Brg: 82 °		LINE LOGS		JULIAN DAY: 205																
CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812																
DC SOL: 92.2m DC EOL: 8.6m SMG SOL: 4.1 knots SMG EOL: 4.5 knots		DEPTH SOL: 2813.3m DEPTH EOL: 2863.4m FEATHER SOL: 6.9 ° FEATHER EOL: -1.9 ° MAX FEATHER: 6.9 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°																
WEATHER WIND SOL: 3 knots WIND EOL: 1.3 knots SEAS SOL: 1.0m SEAS EOL: 2.0m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Ryan Eaton																		
SP	TIME(utc)	EVENT	COMMENTS																	
895	516	FSP	start of line, first shot point																	
1001	547	FGSP	first good shot point																	
1539	820	EOL	end of line																	
			<table border="1"> <thead> <tr> <th colspan="3">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>1001</td> <td>09° 54' 50.070"</td> <td>104° 22' 21.069"</td> </tr> <tr> <td>LGSP</td> <td>1539</td> <td>09° 56' 24.177"</td> <td>104° 11' 25.373"</td> </tr> </tbody> </table>			VESSEL POSITION				SP	Latitude (N)	Longitude (W)	FGSP	1001	09° 54' 50.070"	104° 22' 21.069"	LGSP	1539	09° 56' 24.177"	104° 11' 25.373"
VESSEL POSITION																				
	SP	Latitude (N)	Longitude (W)																	
FGSP	1001	09° 54' 50.070"	104° 22' 21.069"																	
LGSP	1539	09° 56' 24.177"	104° 11' 25.373"																	
			<table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>-4.20m</td> </tr> <tr> <td>NRP - COS</td> <td>-295</td> </tr> <tr> <td>NRP - CNG</td> <td>-495</td> </tr> <tr> <td>COS - CNG</td> <td>-200</td> </tr> <tr> <td>NRP - CMP</td> <td>-395</td> </tr> </tbody> </table>			NAVIGATION OFFSET APPLIED		NRP - Stern	-4.20m	NRP - COS	-295	NRP - CNG	-495	COS - CNG	-200	NRP - CMP	-395			
NAVIGATION OFFSET APPLIED																				
NRP - Stern	-4.20m																			
NRP - COS	-295																			
NRP - CNG	-495																			
COS - CNG	-200																			
NRP - CMP	-395																			
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 – S3T1 data absent S1C9 KO'ed TB1R1- Ko'ed G2R2- Ko'ed																	
			<div> <div>P1</div> <div>EPR3D2252P.0.p190</div> </div> <div> <div>P2</div> <div>EPR3D2252P.0.p294</div> </div>																	
			<div>4 X 6000m X 150m</div>																	
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																	
Tailbuoy #1	none	Gun string #1	good																	
Tailbuoy #2	good	Gun string #2	good																	
Tailbuoy #3	good	Gun string #3	good																	
Tailbuoy #4	good	Gun string #4	none																	
				Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																
				SP spacing: 37.5m																
				line status: Line Complete																


Line Name: EPR3D2052P		NAVIGATION		DATE: 23/07/08															
Seq# 027		Line Brg: 262 °		LINE LOGS		JULIAN DAY: 205													
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D		MGL0812													
DC SOL: 7.0m DC EOL: -2.2m SMG SOL: 4.3 knots SMG EOL: 4.7 knots		DEPTH SOL: 2794.5m DEPTH EOL: 2927.0m FEATHER SOL: 12.0 ° FEATHER EOL: 1.4 ° MAX FEATHER: 12.0 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°															
WEATHER WIND SOL: 14.7 knots WIND EOL: 18.1 knots SEAS SOL: 1.0m SEAS EOL: 2.0m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Ryan Eaton																	
SP	TIME(utc)	EVENT	COMMENTS																
1537	0948	FSP	start of line, first shot point																
1432	1017	FGSP	first good shot point																
894	1248	EOL	end of line																
			<table border="1"> <thead> <tr> <th colspan="3">VESSEL POSITION</th> </tr> <tr> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>1432 09° 52' 04.724"</td> <td>104° 13' 01.673"</td> </tr> <tr> <td>LGSP</td> <td>894 09° 50' 32.948"</td> <td>104° 23' 57.560"</td> </tr> </tbody> </table>					VESSEL POSITION			SP	Latitude (N)	Longitude (W)	FGSP	1432 09° 52' 04.724"	104° 13' 01.673"	LGSP	894 09° 50' 32.948"	104° 23' 57.560"
VESSEL POSITION																			
SP	Latitude (N)	Longitude (W)																	
FGSP	1432 09° 52' 04.724"	104° 13' 01.673"																	
LGSP	894 09° 50' 32.948"	104° 23' 57.560"																	
			<table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>-4.20m</td> </tr> <tr> <td>NRP - COS</td> <td>~295</td> </tr> <tr> <td>NRP - CNG</td> <td>~495</td> </tr> <tr> <td>COS - CNG</td> <td>~200</td> </tr> <tr> <td>NRP - CMP</td> <td>~395</td> </tr> </tbody> </table>					NAVIGATION OFFSET APPLIED		NRP - Stern	-4.20m	NRP - COS	~295	NRP - CNG	~495	COS - CNG	~200	NRP - CMP	~395
NAVIGATION OFFSET APPLIED																			
NRP - Stern	-4.20m																		
NRP - COS	~295																		
NRP - CNG	~495																		
COS - CNG	~200																		
NRP - CMP	~395																		
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 – S3T1 data absent S1C9 KO'ed TB1R1- Ko'ed G2R2- Ko'ed																
			<div style="display: flex; justify-content: space-around;"> <div> P1 EPR3D2052P.0.p190 </div> <div> P2 EPR3D2052P.0.p294 </div> </div>																
			4 X 10.0m X 6000m																
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:		Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN														
Tailbuoy #1	none	Gun string #1	good			SP spacing: 37.5m													
Tailbuoy #2	good	Gun string #2	good			line status:													
Tailbuoy #3	good	Gun string #3	good			Line Complete													
Tailbuoy #4	good	Gun string #4	none																

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Line Name: EPR3D2028P		NAVIGATION		DATE: 24/07/08	
Line Brg: 262 °		LINE LOGS		JULIAN DAY: 206	
Seq# 033					
CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812	
DC SOL: 97.5m		DEPTH SOL: 2766.0m		NAVIGATION SYSTEM USED: C-Nav - Primary	
DC EOL: 115.6m		DEPTH EOL: 2937.3m		NAVIGATION SYSTEM USED: SeaPath 200	
SMG SOL: 4.2 knots		FEATHER SOL: 27.9 °		NAVIGATION SYSTEM USED: Pos MV	
SMG EOL: 5.0 knots		FEATHER EOL: -7.7 °		GRAVITY METER: BMG-II:	
WEATHER		MAX FEATHER: 27.9 °		MAGNETOMETER: GeoMetrics:	
WIND SOL: 8 knots				MAG DEC USED : 7.59°	
WIND EOL: 10 knots					
SEAS SOL: 2-4m		00:00 - 12:00 cst ⇐ Mike Martello, Kaori Kobayashi, Michael Zhang			
SEAS EOL: 2-4m		12:00 - 24:00 cst ⇐ David Martinson, Scott Upper			
SP	TIME(utc)	EVENT	COMMENTS		
1480	1904	FSP	start of line, first shot point		
1416	1923	FFSP	first good shot point		
894	2135	EOL	End of line		
			VESEL POSITION		
			SP	Latitude (N)	Longitude (W)
			FSP	1480	09° 51' 46.756"
			LSP	894	09° 50' 07.730"
			NAVIGATION OFFSET APPLIED		
			NRP - Stern		-4.20m
			NRP - COS		-295
			NRP - CNG		-495
			COS - CNG		-200
			NRP - CMP		-395
			General remarks:		
			S1C9 KO'ed		
			S2C6 KO'ed		
			G1T1 – S3T1 data absent		
			S1C9 KO'ed		
			TB1R1- Ko'ed		
			P1		
			P2		
			EPR3D2028P.0.p190 EPR3D2028P.0.p294		
			4 X 10.0m X 6000m		
Posnet locations & remarks: good - none - intermittent		Acoustic remarks:		Langseth: AXIS.LMI PacificRise.SCN(001) Lang3D.RTCN	
Tailbuoy #1	none	Gun string #1	good	SP spacing: 37.5m	
Tailbuoy #2	good	Gun string #2	good	line status:	
Tailbuoy #3	good	Gun string #3	good	Line Complete	
Tailbuoy #4	good	Gun string #4	good		

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Line Name: EPR3D2020P		NAVIGATION		DATE: 25/07/08																	
Line Brg: 262 °		LINE LOGS		JULIAN DAY: 207																	
Seq# 035																					
CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812																	
DC SOL: -357.5m DC EOL: 99.1m SMG SOL: 5.1 knots SMG EOL: 4.8 knots		DEPTH SOL: 2779.1m DEPTH EOL: 2952.3m FEATHER SOL: 60.9 ° FEATHER EOL: -3.7 ° MAX FEATHER: 60.9 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°																	
WEATHER WIND SOL: 4 knots WIND EOL: 10.1 knots SEAS SOL: 1.0m SEAS EOL: 1.0m		00:00 - 12:00 cst ⇨ Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst ⇨ David Martinson, Scott Upper																			
SP	TIME(utc)	EVENT	COMMENTS																		
1505	0350	FSP	start of line, first shot point																		
1432	0408	FFSP	first good shot point																		
894	0619	EOL	End of line																		
			<table border="1"><thead><tr><th colspan="4">VESSEL POSITION</th></tr><tr><th></th><th>SP</th><th>Latitude (N)</th><th>Longitude (W)</th></tr></thead><tbody><tr><td>FSP</td><td>1505</td><td>09° 51' 26.662"</td><td>104° 11' 25.527"</td></tr><tr><td>LSP</td><td>894</td><td>09° 49' 57.527"</td><td>104° 23' 52.517"</td></tr></tbody></table>			VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	1505	09° 51' 26.662"	104° 11' 25.527"	LSP	894	09° 49' 57.527"	104° 23' 52.517"
VESSEL POSITION																					
	SP	Latitude (N)	Longitude (W)																		
FSP	1505	09° 51' 26.662"	104° 11' 25.527"																		
LSP	894	09° 49' 57.527"	104° 23' 52.517"																		
			NAVIGATION OFFSET APPLIED																		
			NRP - Stern _____ -4.20m																		
			NRP - COS _____ -295																		
			NRP - CNG _____ -495																		
			COS - CNG _____ -200																		
			NRP - CMP _____ -395																		
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 – S3T1 data absent S1C9 KO'ed TB1R1- Ko'ed																		
			<div>P1 EPR3D2020P.0.p190</div> <div>P2 EPR3D2020P.0.p294</div>																		
			<div>4 X 10.0m X 6000m</div>																		
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																		
Tailbuoy #1	none	Gun string #1	good																		
Tailbuoy #2	good	Gun string #2	good																		
Tailbuoy #3	good	Gun string #3	good																		
Tailbuoy #4	good	Gun string #4	good																		
				Langseth: AXIS.LMI PacificRise.SCN(001) Lang3D.RTCN																	
				SP spacing: 37.5m																	
line status:				Line Complete																	

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<u>Sig# 038</u>		Line Name: EPR3D2220P		<u>NAVIGATION</u>	DATE: 25/07/08			
		Line Brg: 82 °		<u>LINE LOGS</u>	JULIAN DAY: 207			
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D		MGL0812		
DC SOL: 4.7m DC EOL: 292.2m SMG SOL: 3.9 knots SMG EOL: 4.7 knots		DEPTH SOL: 2596.1m DEPTH EOL: 2885.6m FEATHER SOL: 47.2 ° FEATHER EOL: -8.8 ° MAX FEATHER: 47.20 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°				
<u>WEATHER</u> WIND SOL: 10 knots WIND EOL: 20 knots SEAS SOL: 1-3m SEAS EOL: 2-4m		00:00 - 12:00 cst => Mike Martello, Kaeori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Scott Uppner						
<u>SP</u>	<u>TIME(utc)</u>	<u>EVENT</u>	<u>COMMENTS</u>					
735	1731	FSP	start of line 6km early at client request , first shot point					
1001	1847	FFSP	first good shot point					
1539	2111	EOL	End of line					
			VESSEL POSITION					
			SP		Latitude (N)		Longitude (W)	
			735		09° 53' 29.315"		104° 27' 40.319"	
			LSP		1539		09° 55' 36.345"	
			NAVIGATION OFFSET APPLIED					
			NRP - Stern				-4.20m	
			NRP - COS				-295	
			NRP - CNG				-485	
			COS - CNG				-200	
			NRP - CAMP				-395	
			<u>General remarks:</u> S1C8 KO red S2C6 KO red G1T1 – S3T1 data absent S1C9 KO red TB1R1- Kored					
			P1 EPR3D2220P.0.p180					
			P2 EPR3D2220P.0.p294					
			4 X 10.0m X 6000m					
<u>Dusnet locations & remarks: good = none - intermittent</u>			<u>Acoustic remarks:</u>					
Tailbuoy #1	good	Gun string #1	good					
Tailbuoy #2	good	Gun string #2	good					
Tailbuoy #3	good	Gun string #3	good					
Tailbuoy #4	good	Gun string #4	good					
Langseeth: AXIS.LMN				PacificRise.SCN(001)				Lang3D.RTCN
SP spacing:				37.5m				
line status:				Line Complete				

Seq# 039 Line Brg: 262 °		Line Name: EPR3D2004P LINE LOGS		Date: 26/07/08 JULIAN DAY: 207			
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D		MOL0812	
DC SOL: 96.2m DC EOL: 13.0m SMG SOL: 4.7 knots SMG EOL: 4.6 knots WEATHER WIND SOL: 4.7 knots WIND EOL: 4 knots SEAS SOL: 1-3m SEAS EOL: 1-3m		DEPTH SOL: 2912.0m DEPTH EOL: 2942.0m FEATHER SOL: 53. ° FEATHER EOL: 6.8 ° MAX FEATHER: 53. °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°			
00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Scott Uppger							
SP 1538 1432 1326 894		TIME(utc) 1538 2331 2400 0153		EVENT FSP FFSP end of day EOL		COMMENTS start of line, first shot point first full shot point midnight shot End of line	
				SP 1538 1432 1326 894		VESEL POSITION Latitude (N) Longitude (W) 09° 51' 27.536" 104° 10' 44.651"	
				FSP LSP		09° 49' 35.410" 104° 23' 49.369"	
NAVIGATION OFFSET APPLIED NRP - Stern -4.20m NRP - CDS -295 NRP - CNG -485 COS - CNG -200 NRP - CAMP -395 General remarks: S108 KO red S206 KO red G111 - S311 data absent S108 KO red TB1R1- Kored							
P1 EPR3D2004P.0.p180 P2 EPR3D20220P.0.p294							
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 4 X 10.0m X 6000m </div>							
Disnet locations & remarks: good - none - intermittent Tailbuoy #1 none gun string #1 good Tailbuoy #2 good gun string #2 good Tailbuoy #3 good gun string #3 good Tailbuoy #4 good gun string #4 good				Acoustic remarks: Langseith: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN SP spacing: 37.5m line status: Line Complete			

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Line Name: EPR3D2196P		NAVIGATION		DATE: 27/07/08																
Line Brg: 82 °		LINE LOGS		JULIAN DAY: 209																
Seq# 046																				
CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812																
DC SOL: 9.1m DC EOL: 130.5m SMG SOL: 4.5 knots SMG EOL: 4.5 knots		DEPTH SOL: 2018.8m DEPTH EOL: 2893.4m FEATHER SOL: 64.5 ° FEATHER EOL: 2.0 ° MAX FEATHER: 64.5 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°																
WEATHER																				
WIND SOL: 9.7 knots																				
WIND EOL: 2 knots																				
SEAS SOL: 1.0m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang																		
SEAS EOL: 1.0m		12:00 - 24:00 cst => David Martinson, Scott Upper																		
SP	TIME(utc)	EVENT	COMMENTS																	
895	503	FSP	start of line, first shot point																	
1001	0532	FFSP	first full fold shot point																	
1319	1023	Source	Slow down the speed from 4.8 to 4.6 due to streamer tension higher.																	
1539	0800	EOL	End of line																	
				<div style="text-align: center;">VESSEL POSITION</div> <table border="1"> <thead> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>895</td> <td>09° 53' 26.989"</td> <td>104° 24' 21.086"</td> </tr> <tr> <td>LSP</td> <td>1539</td> <td>09° 53' 46.300"</td> <td>104° 22' 12.025"</td> </tr> </tbody> </table>			SP	Latitude (N)	Longitude (W)	FSP	895	09° 53' 26.989"	104° 24' 21.086"	LSP	1539	09° 53' 46.300"	104° 22' 12.025"			
	SP	Latitude (N)	Longitude (W)																	
FSP	895	09° 53' 26.989"	104° 24' 21.086"																	
LSP	1539	09° 53' 46.300"	104° 22' 12.025"																	
				<div style="text-align: center;">NAVIGATION OFFSET APPLIED</div> <table border="1"> <tbody> <tr> <td>NRP - Stern</td> <td></td> <td>-4.20m</td> </tr> <tr> <td>NRP - COS</td> <td></td> <td>-295</td> </tr> <tr> <td>NRP - CNG</td> <td></td> <td>-495</td> </tr> <tr> <td>COS - CNG</td> <td></td> <td>-200</td> </tr> <tr> <td>NRP - CMP</td> <td></td> <td>-395</td> </tr> </tbody> </table>		NRP - Stern		-4.20m	NRP - COS		-295	NRP - CNG		-495	COS - CNG		-200	NRP - CMP		-395
NRP - Stern		-4.20m																		
NRP - COS		-295																		
NRP - CNG		-495																		
COS - CNG		-200																		
NRP - CMP		-395																		
				General remarks: S1C9 KO'ed S2C6 KO'ed S4T1 KO'ed S1C9 KO'ed TB1R1- KO'ed																
				<div style="text-align: center;"> P1 P2 EPR3D2196P.0.p190 EPR3D2196P.0.p294 </div>																
				<div style="border: 2px solid black; padding: 5px; display: inline-block;"> 4 X 10.0m X 6000m </div>																
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:	Langseth: AXIS.LMI PacificRise.SCN(001) Lang3D.RTCN																
Tailbuoy #1	none	Gun string #1	good																	
Tailbuoy #2	good	Gun string #2	good																	
Tailbuoy #3	good	Gun string #3	good																	
Tailbuoy #4	good	Gun string #4	good																	
				SP spacing: 37.5m																
				line status: Line Complete																

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Langseth: AXIS.LM1		PacificRise.SCN(001)	Lang3D.RTCN
SP spacing:		37.5m	
line status:	Line Complete		


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Seq# 057		Line Name: EPR3D2148P	NAVIGATION	DATE: 29/07/08																
		Line Brg: 82 °	LINE LOGS	JULIAN DAY: 211																
CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812																
DC SOL: -26.4m DC EOL: 73.2m SMG SOL: 4.4 knots SMG EOL: 4.6 knots <u>WEATHER</u> WIND SOL: 11. knots WIND EOL: 8.0 knots SEAS SOL: 1-2m SEAS EOL: 1-2m		DEPTH SOL: 2452.4m DEPTH EOL: 2893.0m FEATHER SOL: 59.1 ° FEATHER EOL: -6.3 ° MAX FEATHER: 59.1 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°																
00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Scott Unger																				
SP	TIME(utc)	EVENT	COMMENTS																	
895	2254	FSP	start of line																	
1001	2323	FFSP	first full fold shot point																	
1539	0159	EOL	End of line																	
			<table border="1"><thead><tr><th colspan="3">VESSEL POSITION</th></tr><tr><th></th><th>SP</th><th>Latitude (N)</th><th>Longitude (W)</th></tr></thead><tbody><tr><td>FSP</td><td>895</td><td>09° 52' 30.106"</td><td>104° 24' 12.976"</td></tr><tr><td>LSP</td><td>1539</td><td>09° 54' 16.439"</td><td>104° 11' 07.290"</td></tr></tbody></table>			VESSEL POSITION				SP	Latitude (N)	Longitude (W)	FSP	895	09° 52' 30.106"	104° 24' 12.976"	LSP	1539	09° 54' 16.439"	104° 11' 07.290"
VESSEL POSITION																				
	SP	Latitude (N)	Longitude (W)																	
FSP	895	09° 52' 30.106"	104° 24' 12.976"																	
LSP	1539	09° 54' 16.439"	104° 11' 07.290"																	
			NAVIGATION OFFSET APPLIED																	
			NRP - Stern -4.20m																	
			NRP - COS -295																	
			NRP - CNG -495																	
			COS - CNG -200																	
			NRP - CMP -395																	
			General remarks: S1C9 KO'ed S2C9 KO'ed S4T1 KO'ed S1C3 KO'ed TBV1T- KO'ed S3T3 KO'ed																	
			<p>P1 P2 EPR3D2148.0.p190 EPR3D2148P.0.p294</p> <div>4 X 6000m x 150m</div>																	
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																	
Tailbuoy #1	none	Gun string #1	good																	
Tailbuoy #2	good	Gun string #2	good																	
Tailbuoy #3	good	Gun string #3	good																	
Tailbuoy #4	good	Gun string #4	good																	
			Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																	
			SP spacing: 37.5m																	
			line status:																	

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Seq# 060	Line Name: EPR3D1940I	<u>NAVIGATION</u>	DATE: 30/07/08	
	Line Brg: 262 °	<u>LINE LOGS</u>	JULIAN DAY: 212	

CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812																	
DC SOL: -161.2m DC EOL: -300.7m SMG SOL: 4.5 knots SMG EOL: 4.5 knots WEATHER WIND SOL: 0.2 knots WIND EOL: 4.4 knots SEAS SOL: 1.0m SEAS EOL: 1.0m		DEPTH SOL: 2876.2m DEPTH EOL: 2948.2m FEATHER SOL: 65.1 ° FEATHER EOL: 1.1 ° MAX FEATHER: 65.1 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°																	
00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Scott Upper																					
SP	TIME(utc)	EVENT	COMMENTS																		
1538	1108	FSP	start of line																		
1432	1136	FFSP	first full fold shot point																		
1339	1201	maggie	disconnect maggie to remove cable from reel																		
1203	1238	maggie	maggie connected																		
894	1401	EOL	End of line																		
			<table> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> <tr> <td>FSP</td> <td>1538</td> <td>09° 50' 01.863"</td> <td>104° 10' 32.501"</td> </tr> <tr> <td>LSP</td> <td>894</td> <td>09° 48' 07.916"</td> <td>104° 23' 36.945"</td> </tr> </table>			VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	1538	09° 50' 01.863"	104° 10' 32.501"	LSP	894	09° 48' 07.916"	104° 23' 36.945"
VESSEL POSITION																					
	SP	Latitude (N)	Longitude (W)																		
FSP	1538	09° 50' 01.863"	104° 10' 32.501"																		
LSP	894	09° 48' 07.916"	104° 23' 36.945"																		
			NAVIGATION OFFSET APPLIED																		
			NRP - Stern _____ -4.20m NRP - COS _____ -295 NRP - CNG _____ -495 COS - CNG _____ -200 NRP - CMP _____ -395																		
			General remarks: S1C9 KO'ed S2C6 KO'ed S4T1 KO'ed S1C9 KO'ed TB1R1- Ko'ed S3T3 KO'ed																		
			<div> <div>P1</div> <div>EPR3D1940I.0.p190</div> </div> <div> <div>P2</div> <div>EPR3D1940I.0.p294</div> </div>																		
			<div>4 X 6000m x 150m</div>																		
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																		
Tailbuoy #1	none	Gun string #1	good																		
Tailbuoy #2	good	Gun string #2	good																		
Tailbuoy #3	good	Gun string #3	good																		
Tailbuoy #4	good	Gun string #4	good																		
				Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																	
				SP spacing: 37.5m																	
line status:				Line Complete																	

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Line Name: EPR3D2076I		NAVIGATION		DATE: 01/08/08																			
Line Brg: 262 °		LINE LOGS		JULIAN DAY: 214																			
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D		MGL0812																	
DC SOL: -33.6m DC EOL: -204.2m SMG SOL: 4.9 knots SMG EOL: 4.7 knots		DEPTH SOL: 2920.8m DEPTH EOL: 2889.2m FEATHER SOL: 63.6 ° FEATHER EOL: 5.5 ° MAX FEATHER: 63.6 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II: MAGNETOMETER: GeoMetrics: MAG DEC USED : 7.59°																			
WEATHER WIND SOL: 4.5 knots WIND EOL: 6. knots SEAS SOL: 1-2m SEAS EOL: 1-2m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang 12:00 - 24:00 cst => David Martinson, Ryan Eaton																					
SP	TIME(utc)	EVENT	COMMENTS																				
1535	0046	FSP	start of line, first shot point																				
1432	0112	FGSP	Full fold shotpoint																				
894	0328	EOL	end of line																				
			<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FGSP</td> <td>1535</td> <td>09° 52' 49.888"</td> <td>104° 11' 00.078"</td> </tr> <tr> <td>LGSP</td> <td>894</td> <td>09° 50' 55.435"</td> <td>104° 24' 00.759"</td> </tr> </tbody> </table>					VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FGSP	1535	09° 52' 49.888"	104° 11' 00.078"	LGSP	894	09° 50' 55.435"	104° 24' 00.759"
VESSEL POSITION																							
	SP	Latitude (N)	Longitude (W)																				
FGSP	1535	09° 52' 49.888"	104° 11' 00.078"																				
LGSP	894	09° 50' 55.435"	104° 24' 00.759"																				
			<table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>-4.20m</td> </tr> <tr> <td>NRP - COS</td> <td>-295</td> </tr> <tr> <td>NRP - CNG</td> <td>-495</td> </tr> <tr> <td>COS - CNG</td> <td>-200</td> </tr> <tr> <td>NRP - CMP</td> <td>-395</td> </tr> </tbody> </table>					NAVIGATION OFFSET APPLIED		NRP - Stern	-4.20m	NRP - COS	-295	NRP - CNG	-495	COS - CNG	-200	NRP - CMP	-395				
NAVIGATION OFFSET APPLIED																							
NRP - Stern	-4.20m																						
NRP - COS	-295																						
NRP - CNG	-495																						
COS - CNG	-200																						
NRP - CMP	-395																						
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 – S3T1 data absent S1C9 KO'ed TB1R1- KO'ed																				
			<div style="display: flex; justify-content: space-around;"> <div> P1 EPR3D2076I.0.p190 </div> <div> P2 EPR3D2076I.0.p294 </div> </div>																				
			4 X 6000m X 150m																				
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:			Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN SP spacing: 37.5m line status: Line Complete																	
Tailbuoy #1	none	Gun string #1	good																				
Tailbuoy #2	good	Gun string #2	good																				
Tailbuoy #3	good	Gun string #3	good																				
Tailbuoy #4	good	Gun string #4	good																				

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	Line Name:	EPR3D1668P	NAVIGATION	DATE:	07/08/08	NCS SubSea	
	Seq# 101	Line Brg:	82 °	LINE LOGS	JULIAN DAY:		220
		CLIENT: National Science Foundation	SURVEY: East Pacific Ridge3D	MGL0812			
DC SOL: -95.8m		DEPTH SOL: 2864.1m		NAVIGATION SYSTEM USED: C-Nav - Primary			
DC EOL: -30.3m		DEPTH EOL: 2869.7m		NAVIGATION SYSTEM USED: SeaPath 200			
SMG SOL: 4.0 knots		FEATHER SOL: -64.6 °		NAVIGATION SYSTEM USED: Pos MV			
SMG EOL: 3.9 knots		FEATHER EOL: 3.6 °		GRAVITY METER: BMG-II:			
WEATHER		MAX FEATHER: -64.6 °		MAGNETOMETER: GeoMetrics			
WIND SOL: 5.0 knots				MAG DEC USED : 7.59°			
WIND EOL: 5.0 knots							
SEAS SOL: 1-2m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang					
SEAS EOL: 1-2m		12:00 - 24:00 cst => David Martinson, Scott Upper					
SP	TIME(utc)	EVENT	COMMENTS				
985	0946	FSP	Start of line				
1001	1018	FFSP	first full fold shotpoint				
1539	1306	LSP	end of line				
				VESSEL POSITION			
				SP	Latitude (N)	Longitude (W)	
				FSP	985 09° 42' 52.008"	104° 22' 50.880"	
				LSP	1539 09° 44' 39.329"	104° 09' 45.712"	
				NAVIGATION OFFSET APPLIED			
				NRP - Stern	-4.20m		
				NRP - COS	-295		
				NRP - CNG	-495		
				COS - CNG	-200		
				NRP - CMP	-395		
				General remarks:			
				S1C9 KO'd			
				S2C6 KO'd			
				G1T1 – S3T1 data absent			
				S1C9 KO'd			
				TB1R1- Ko'd			
				maggie not used			
				P1	P2		
				EPR3D1668P.0.p190	EPR3D1668P.0.p294		
				4 X 6000m X 150m			
Posnet locations & remarks: good - none - intermittent				Acoustic remarks:			
Tailbuoy #1	none	Gun string #1	good				
Tailbuoy #2	good	Gun string #2	good				
Tailbuoy #3	good	Gun string #3	good				
Tailbuoy #4	ood	Gun string #4	good				
				Langseth: AXIS.LMN	PacificRise.SCN(001)	Lang3D.RTCN	
				SP spacing:	37.5m		
line status:				Line Complete			

[illegible]

Seq# 107		Line Name: EPR3D1644P		NAVIGATION		DATE: 08/08/08																			
		Line Brg: 82 °		LINE LOGS		JULIAN DAY: 221																			
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D				MGL0812																	
DC SOL: -97.9m		DEPTH SOL: 2866.2m		NAVIGATION SYSTEM USED: C-Nav - Primary																					
DC EOL: -8.5m		DEPTH EOL: 2864.8m		NAVIGATION SYSTEM USED: SeaPath 200																					
SMG SOL: 4.5 knots		FEATHER SOL: -70.9 °		NAVIGATION SYSTEM USED: Pos MV																					
SMG EOL: 4.6 knots		FEATHER EOL: 1.5 °		GRAVITY METER: BMG-II																					
WEATHER		MAX FEATHER: -70.9 °		MAGNETOMETER: GeoMetrics																					
WIND SOL: 8.0 knots				MAG DEC USED : 7.59°																					
WIND EOL: 4.0 knots																									
SEAS SOL: 1-2m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang																							
SEAS EOL: 1m		12:00 - 24:00 cst => David Martinson, Scott Upper																							
SP	TIME(utc)	EVENT	COMMENTS																						
1159	894	FSP	Start of line																						
1001	1227	FFSP	first full fold shotpoint																						
1539	1453	LSP	end of line																						
			<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>894</td> <td>09° 42' 23.063"</td> <td>104° 22' 46.751"</td> </tr> <tr> <td>LSP</td> <td>1539</td> <td>09° 44' 09.611"</td> <td>104° 09' 41.498"</td> </tr> </tbody> </table>							VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	894	09° 42' 23.063"	104° 22' 46.751"	LSP	1539	09° 44' 09.611"	104° 09' 41.498"
VESSEL POSITION																									
	SP	Latitude (N)	Longitude (W)																						
FSP	894	09° 42' 23.063"	104° 22' 46.751"																						
LSP	1539	09° 44' 09.611"	104° 09' 41.498"																						
			<table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>-4.20m</td> </tr> <tr> <td>NRP - COS</td> <td>-295</td> </tr> <tr> <td>NRP - CNG</td> <td>-495</td> </tr> <tr> <td>COS - CNG</td> <td>-200</td> </tr> <tr> <td>NRP - CMP</td> <td>-395</td> </tr> </tbody> </table>							NAVIGATION OFFSET APPLIED		NRP - Stern	-4.20m	NRP - COS	-295	NRP - CNG	-495	COS - CNG	-200	NRP - CMP	-395				
NAVIGATION OFFSET APPLIED																									
NRP - Stern	-4.20m																								
NRP - COS	-295																								
NRP - CNG	-495																								
COS - CNG	-200																								
NRP - CMP	-395																								
			<p>General remarks:</p> <p>S1C9 KO'ed</p> <p>S2C6 KO'ed</p> <p>G1T1 - S3T1 data absent</p> <p>TB1R1- Ko'ed</p> <p>maggie not used</p>																						
			<div style="display: flex; justify-content: space-around;"> <div> <p>P1</p> <p>EPR3D1644P.0.p190</p> </div> <div> <p>P2</p> <p>EPR3D1644P.0.p294</p> </div> </div>																						
			<div style="border: 2px solid black; padding: 5px; text-align: center; width: fit-content; margin: 0 auto;"> <p>4 X 6000m X 150m</p> </div>																						
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																						
Tailbuoy #1	none	Gun string #1	good																						
Tailbuoy #2	good	Gun string #2	good																						
Tailbuoy #3	good	Gun string #3	good																						
Tailbuoy #4	good	Gun string #4	good																						
				Langseth: AXIS.LMN		PacificRise.SCN(001)		Lang3D.RTCN																	
				SP spacing:		37.5m																			
				line status:		Line Complete																			


<u>Seq# 109</u>		Line Name: EPR3D1636P		NAVIGATION		DATE: 08/08/08																			
		Line Brg: 82 °		LINE LOGS		JULIAN DAY: 221																			
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D				MGL0812																	
DC SOL: -102.7m		DEPTH SOL: 2866.8m		NAVIGATION SYSTEM USED: C-Nav - Primary																					
DC EOL: -5.5m		DEPTH EOL: 2850.6m		NAVIGATION SYSTEM USED: SeaPath 200																					
SMG SOL: 4.2 knots		FEATHER SOL: -68.9 °		NAVIGATION SYSTEM USED: Pos MV																					
SMG EOL: 4.4 knots		FEATHER EOL: 2.1 °		GRAVITY METER: BMG-II																					
WEATHER		MAX FEATHER: -68.9 °		MAGNETOMETER: GeoMetrics																					
WIND SOL: 9 knots				MAG DEC USED : 7.59°																					
WIND EOL: 7 knots																									
SEAS SOL: 1-2m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi, Michael Zhang																							
SEAS EOL: 1-2m		12:00 - 24:00 cst => David Martinson, Scott Upper																							
SP	TIME(utc)	EVENT	COMMENTS																						
895	1652	FSP	Start of line																						
1539	0051	LSP	End of line																						
			<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>895</td> <td>09° 42' 13.538"</td> <td>104° 22' 45.445"</td> </tr> <tr> <td>LSP</td> <td>1539</td> <td>09° 43' 59.839"</td> <td>104° 09' 40.127"</td> </tr> </tbody> </table>							VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	895	09° 42' 13.538"	104° 22' 45.445"	LSP	1539	09° 43' 59.839"	104° 09' 40.127"
VESSEL POSITION																									
	SP	Latitude (N)	Longitude (W)																						
FSP	895	09° 42' 13.538"	104° 22' 45.445"																						
LSP	1539	09° 43' 59.839"	104° 09' 40.127"																						
			<table border="1"> <thead> <tr> <th colspan="2">NAVIGATION OFFSET APPLIED</th> </tr> </thead> <tbody> <tr> <td>NRP - Stern</td> <td>-4.20m</td> </tr> <tr> <td>NRP - COS</td> <td>-295</td> </tr> <tr> <td>NRP - CNG</td> <td>-495</td> </tr> <tr> <td>COS - CNG</td> <td>-200</td> </tr> <tr> <td>NRP - CMP</td> <td>-395</td> </tr> </tbody> </table>							NAVIGATION OFFSET APPLIED		NRP - Stern	-4.20m	NRP - COS	-295	NRP - CNG	-495	COS - CNG	-200	NRP - CMP	-395				
NAVIGATION OFFSET APPLIED																									
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NRP - COS	-295																								
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NRP - CMP	-395																								
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 - S3T1 data absent TB1R1- Ko'ed maggie not used																						
			<div style="display: flex; justify-content: space-around;"> <div> P1 EPR3D1636P.0.p190 </div> <div> P2 EPR3D1636P.0.p294 </div> </div>																						
			<div style="border: 2px solid black; padding: 5px; text-align: center; width: fit-content; margin: 0 auto;"> 4 X 6000m X 150m </div>																						
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																						
Tailbuoy #1	none	Gun string #1	good																						
Tailbuoy #2	good	Gun string #2	good																						
Tailbuoy #3	good	Gun string #3	good																						
Tailbuoy #4	good	Gun string #4	good																						
				Langseth: AXIS.LMN		PacificRise.SCN(001)		Lang3D.RTCN																	
				SP spacing:		37.5m																			
				line status:		Line Complete																			


[illegible]


Seq# 114		Line Name: EPR3D1788P Line Brg: 262 °		NAVIGATION LINE LOGS		DATE: 08/08/08 JULIAN DAY: 222																											
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D				MGL0812																									
DC SOL: -125.7m DC EOL: -156.4m SMG SOL: 4.6 knots SMG EOL: 4.7 knots WEATHER WIND SOL: 1.0 knots WIND EOL: 6.0 knots SEAS SOL: 1-2m SEAS EOL: 1-2m		DEPTH SOL: 2866.5m DEPTH EOL: 2938.6m FEATHER SOL: -80.0 ° FEATHER EOL: 2.5 ° MAX FEATHER: -80.0 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II MAGNETOMETER: GeoMetrics MAG DEC USED : 7.59°																													
		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi 12:00 - 24:00 cst => David Martinson, Scott Upper																															
SP	TIME(utc)	EVENT	COMMENTS																														
1537	2331	FSP	Start of line																														
1432	2357	FFSP	First full fold shotpoint																														
1121	0114	MMO	Shut down to one gun for pilot whales. SP1122 is last good shotpoint. .																														
1072	0127	Source	Begin ramp up of guns.																														
995	0147	Source	Ramp up complete.																														
894	0213	LSP	End of line																														
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">VESSEL POSITION</th> </tr> <tr> <th></th> <th style="text-align: center;">SP</th> <th style="text-align: center;">Latitude (N)</th> <th style="text-align: center;">Longitude (W)</th> </tr> <tr> <td style="text-align: center;">FSP</td> <td style="text-align: center;">1537</td> <td style="text-align: center;">09° 46' 59.055"</td> <td style="text-align: center;">104° 10' 09.906"</td> </tr> <tr> <td style="text-align: center;">LSP</td> <td style="text-align: center;">894</td> <td style="text-align: center;">09° 45' 08.797"</td> <td style="text-align: center;">104° 23' 11.494"</td> </tr> </table>							VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	1537	09° 46' 59.055"	104° 10' 09.906"	LSP	894	09° 45' 08.797"	104° 23' 11.494"								
VESSEL POSITION																																	
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FSP	1537	09° 46' 59.055"	104° 10' 09.906"																														
LSP	894	09° 45' 08.797"	104° 23' 11.494"																														
			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">NAVIGATION OFFSET APPLIED</th> </tr> <tr> <td style="text-align: center;">NRP - Stern</td> <td style="text-align: center;">_____</td> <td colspan="2" style="text-align: center;">-4.20m</td> </tr> <tr> <td style="text-align: center;">NRP - COS</td> <td style="text-align: center;">_____</td> <td colspan="2" style="text-align: center;">-295</td> </tr> <tr> <td style="text-align: center;">NRP - CNG</td> <td style="text-align: center;">_____</td> <td colspan="2" style="text-align: center;">-495</td> </tr> <tr> <td style="text-align: center;">COS - CNG</td> <td style="text-align: center;">_____</td> <td colspan="2" style="text-align: center;">-200</td> </tr> <tr> <td style="text-align: center;">NRP - CMP</td> <td style="text-align: center;">_____</td> <td colspan="2" style="text-align: center;">-395</td> </tr> </table>							NAVIGATION OFFSET APPLIED				NRP - Stern	_____	-4.20m		NRP - COS	_____	-295		NRP - CNG	_____	-495		COS - CNG	_____	-200		NRP - CMP	_____	-395	
NAVIGATION OFFSET APPLIED																																	
NRP - Stern	_____	-4.20m																															
NRP - COS	_____	-295																															
NRP - CNG	_____	-495																															
COS - CNG	_____	-200																															
NRP - CMP	_____	-395																															
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 - S3T1 data absent TB1R1- Ko'ed maggie not used Sp1121-894 are not to be processed.																														
			<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> P1 EPR3D1788P.0.p190 </div> <div style="text-align: center;"> P2 EPR3D1788P.0.p294 </div> </div> <div style="border: 2px solid black; padding: 10px; margin: 20px auto; width: 150px; text-align: center;"> 4 X 6000m X 150m </div>																														
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:			Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN SP spacing: 37.5m																											
Tailbuoy #1	none	Gun string #1	good			line status:		Line Complete																									
Tailbuoy #2	good	Gun string #2	good																														
Tailbuoy #3	good	Gun string #3	good																														
Tailbuoy #4	good	Gun string #4	good																														


[illegible]

Seq# 117		Line Name: EPR3D1612P Line Brg: 82 °	NAVIGATION LINE LOGS	DATE: 10/08/08 JULIAN DAY: 223																	
CLIENT: National Science Foundation		SURVEY: East Pacific Ridge3D		MGL0812																	
DC SOL: -105.7m DC EOL: 50.4m SMG SOL: 4.3 knots SMG EOL: 4.6 knots WEATHER WIND SOL: 3.0 knots WIND EOL: 3.0 knots SEAS SOL: calm SEAS EOL: calm		DEPTH SOL: 2865.8m DEPTH EOL: 2946.9m FEATHER SOL: -66.5 ° FEATHER EOL: -7.7 ° MAX FEATHER: -66.5 ° 00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi 12:00 - 24:00 cst => David Martinson, Scott Upper		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II MAGNETOMETER: GeoMetrics MAG DEC USED : 7.59°																	
SP	TIME(utc)	EVENT	COMMENTS																		
895	1227	FSP	Start of line																		
1001	1255	FFSP	First full fold shotpoint																		
1404	1444	workboat	Launch workboat to work on acoustics for streamer 4 and to change lights on all tailbuoys ; gps patch antenna on TB1																		
1539	1522	extended line	Will continue to shoot while acoustic / tailbuoys are being worked on and vessel continues on line heading,																		
1542	1523	source	String 2 coming in for repair.																		
1553	1526	streamer 4	Surface last 6 bird of streamer to reach acoustic for changing out S4T6																		
	1542	workboat	Ready to head back to Langseth																		
1630	1546	LSP	End of line																		
			<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="4" style="text-align: center;">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> <tr> <td>FSP</td> <td>895</td> <td>09° 41' 44.626"</td> <td>104° 22' 41.289"</td> </tr> <tr> <td>LSP</td> <td>1630</td> <td>09° 43' 44.449"</td> <td>104° 07' 44.819"</td> </tr> </table>			VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	895	09° 41' 44.626"	104° 22' 41.289"	LSP	1630	09° 43' 44.449"	104° 07' 44.819"
VESSEL POSITION																					
	SP	Latitude (N)	Longitude (W)																		
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NAVIGATION OFFSET APPLIED																					
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NRP - COS	-295																				
NRP - CNG	-495																				
COS - CNG	-200																				
NRP - CMP	-395																				
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 - S3T1 data absent TB1R1- Ko'ed maggie not used Streamer4 shotpoints 1553 to 1630 to edit d/t changing depths of last 6 birds																		
			<div style="display: flex; justify-content: space-around; margin-bottom: 10px;"> <div> P1 EPR3D1612P.0.p190 </div> <div> P2 EPR3D1612P.0.p294 </div> </div> <div style="border: 2px solid black; padding: 5px; width: fit-content; margin: 0 auto;"> 4 X 6000m X 150m </div>																		
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:																		
Tailbuoy #1	none	Gun string #1	good																		
Tailbuoy #2	good	Gun string #2	good																		
Tailbuoy #3	good	Gun string #3	good																		
Tailbuoy #4	good	Gun string #4	good																		
			Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN SP spacing: 37.5m																		
			line status: Line Complete																		


Seq# 118		Line Name: EPR3D1460P		NAVIGATION		DATE: 10/08/08																											
		Line Brg: 262 °		LINE LOGS		JULIAN DAY: 223																											
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D				MGL0812																									
DC SOL: 50.6m		DEPTH SOL: 3041.0m		NAVIGATION SYSTEM USED: C-Nav - Primary																													
DC EOL: -79.5m		DEPTH EOL: 2858.9m		NAVIGATION SYSTEM USED: SeaPath 200																													
SMG SOL: 4.4 knots		FEATHER SOL: 73.2 °		NAVIGATION SYSTEM USED: Pos MV																													
SMG EOL: 4.3 knots		FEATHER EOL: 4.6 °		GRAVITY METER: BMG-II																													
WEATHER		MAX FEATHER: 73.2 °		MAGNETOMETER: GeoMetrics																													
WIND SOL: 8 knots				MAG DEC USED : 7.59°																													
WIND EOL: 6.0 knots																																	
SEAS SOL: 1-2m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi																															
SEAS EOL: 1-2m		12:00 - 24:00 cst => David Martinson, Scott Upper																															
SP	TIME(utc)	EVENT	COMMENTS																														
1627	1703	FSP	Start of line early – string 2 still being deployed																														
1612	1707	FFSP	First full fold shotpoint																														
1228	1855	MMO	Shutdown to one gun d/t turtle.																														
1198	1903	MMO	Source at full volume. Shotpoints 1227-1199 to be edited.																														
894	2027	LSP	End of line.																														
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NAVIGATION OFFSET APPLIED																																	
NRP - Stern			-4.20m																														
NRP - COS			-295																														
NRP - CNG			-495																														
COS - CNG			-200																														
NRP - CMP			-395																														
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 – S3T1 data absent GRAVITY METER: BMG-II maggie not used																														
			<div style="display: flex; justify-content: space-around;"> <div> P1 EPR3D1460P.0.p190 </div> <div> P2 EPR3D1460P.0.p294 </div> </div>																														
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Posnet locations & remarks: good - none - intermittent			Acoustic remarks:			Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																											
Tailbuoy #1	none	Gun string #1	good				SP spacing: 37.5m																										
Tailbuoy #2	good	Gun string #2	good																														
Tailbuoy #3	good	Gun string #3	good																														
Tailbuoy #4	good	Gun string #4	good				line status: Line Complete																										

Seq# 126		Line Name: EPR3D1428P		NAVIGATION		DATE: 11/08/08																			
Line Brg: 262 °		LINE LOGS		JULIAN DAY: 224																					
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D		MGL0812																			
DC SOL: -302.2m DC EOL: 24.0m SMG SOL: 4.3 knots SMG EOL: 4.1 knots WEATHER WIND SOL: 20.0 knots WIND EOL: 27.2 knots SEAS SOL: 1-2m SEAS EOL: 2.0m		DEPTH SOL: 3028.6m DEPTH EOL: 2893.2m FEATHER SOL: 92.6 ° FEATHER EOL: -1.7 ° MAX FEATHER: 92.6 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II MAGNETOMETER: GeoMetrics MAG DEC USED : 7.59°																					
		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi 12:00 - 24:00 cst => David Martinson, Scott Upper																							
SP	TIME(utc)	EVENT	COMMENTS																						
1682	0524	FSP	Start of line																						
1663	0529	source	Start strings 3&4 back out																						
1513	0608	reset filters	Estimate position prior to wouce positioning																						
1492	0613	source	All guns in positon and firing																						
1432	0629	FFSP	Firlt full fold shotpoint																						
894	0857	preplot eol	original end of line																						
751	0938	LSP	End of Line extended per client request																						
			<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>1682</td> <td>09° 40' 02.656"</td> <td>104° 06' 08.923"</td> </tr> <tr> <td>LSP</td> <td>751</td> <td>09° 37' 34.998"</td> <td>104.2504.729</td> </tr> </tbody> </table>							VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	1682	09° 40' 02.656"	104° 06' 08.923"	LSP	751	09° 37' 34.998"	104.2504.729
VESSEL POSITION																									
	SP	Latitude (N)	Longitude (W)																						
FSP	1682	09° 40' 02.656"	104° 06' 08.923"																						
LSP	751	09° 37' 34.998"	104.2504.729																						
			NAVIGATION OFFSET APPLIED NRP - Stern _____ -4.20m NRP - COS _____ -295 NRP - CNG _____ -495 COS - CNG _____ -200 NRP - CMP _____ -395																						
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 - S3T1 data absent TB1R1- Ko'ed maggie not used sp 1492 all guns in position and firing																						
			<div style="text-align: center;"> P1 EPR3D1428P.0.p190 </div> <div style="text-align: center;"> P2 EPR3D1428P.0.p294 </div> <div style="text-align: center; border: 2px solid black; padding: 5px; margin-top: 20px;"> 4 X 6000m X 150m </div>																						
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:		Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																				
Tailbuoy #1	none	Gun string #1	good																						
Tailbuoy #2	good	Gun string #2	good																						
Tailbuoy #3	good	Gun string #3	good																						
Tailbuoy #4	good	Gun string #4	good																						
					line status:		Line Complete																		

<u>Seq# 130</u>		Line Name: EPR3D1412P		NAVIGATION		DATE: 13/08/08																											
		Line Brg: 262 °		LINE LOGS		JULIAN DAY: 226																											
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D				MGL0812																									
DC SOL: 56.9m		DEPTH SOL: 2937.5m		NAVIGATION SYSTEM USED: C-Nav - Primary																													
DC EOL: 88.1m		DEPTH EOL: 2916.2m		NAVIGATION SYSTEM USED: SeaPath 200																													
SMG SOL: 3.9 knots		FEATHER SOL: 60.2 °		NAVIGATION SYSTEM USED: Pos MV																													
SMG EOL: 3.7 knots		FEATHER EOL: -6.2 °		GRAVITY METER: BMG-II																													
WEATHER		MAX FEATHER: 60.2 °		MAGNETOMETER: GeoMetrics																													
WIND SOL: 11 knots				MAG DEC USED : 7.59°																													
WIND EOL: 19.0 knots																																	
SEAS SOL: 2-3M		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi																															
SEAS EOL: 2.0m		12:00 - 24:00 cst => David Martinson, Scott Upper																															
SP	TIME(utc)	EVENT	COMMENTS																														
1538	0211	FSP	Start of line, shooting with port source only																														
1528	0215	source	Picking up strings 1 & 2 to work on 1																														
1432	0245	FFSP	First full fold shotpoint																														
1218	0359	source	First shot point on dual source																														
894	0545	LSP	End of Line																														
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			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 - S3T1 data absent TB1R1- Ko'ed maggie not used																														
			<div style="display: flex; justify-content: space-around;"> <div> P1 EPR3D1412P.0.p190 </div> <div> P2 EPR3D1412P.0.p294 </div> </div>																														
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Posnet locations & remarks: good - none - intermittent				Acoustic remarks:		Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																											
Tailbuoy #1	none	Gun string #1	good			SP spacing: 37.5m																											
Tailbuoy #2	good	Gun string #2	good																														
Tailbuoy #3	good	Gun string #3	good																														
Tailbuoy #4	good	Gun string #4	good			line status: Line Complete																											

Seq# 132		Line Name: EPR3D1476P		NAVIGATION		DATE: 13/08/08																			
		Line Brg: 262 °		LINE LOGS		JULIAN DAY: 226																			
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D				MGL0812																	
DC SOL: -7.2m		DEPTH SOL: 2873.7m		NAVIGATION SYSTEM USED: C-Nav - Primary																					
DC EOL: -11.5m		DEPTH EOL: 2842.2m		NAVIGATION SYSTEM USED: SeaPath 200																					
SMG SOL: 3.9 knots		FEATHER SOL: -59.4 °		NAVIGATION SYSTEM USED: Pos MV																					
SMG EOL: 3.9 knots		FEATHER EOL: -5.0 °		GRAVITY METER: BMG-II																					
WEATHER		MAX FEATHER: -59.4 °		MAGNETOMETER: GeoMetrics																					
WIND SOL: 12.0 knots				MAG DEC USED : 7.59°																					
WIND EOL: 23.0 knots																									
SEAS SOL: 2.0m		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi																							
SEAS EOL: 2.0m		12:00 - 24:00 cst => David Martinson, Scott Upper																							
SP	TIME(utc)	EVENT	COMMENTS																						
1538	1143	FSP	Start of line – cables at 15meters																						
1454	1210	trim	all streamers in spec																						
1432	1217	FFSP	First full fold shotpoint																						
894	1506	LSP	End of Line																						
			<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>1538</td> <td>09° 40' 45.813"</td> <td>104° 09' 13.915"</td> </tr> <tr> <td>LSP</td> <td>894</td> <td>09° 38' 56.252"</td> <td>104° 22' 18.601"</td> </tr> </tbody> </table>							VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	1538	09° 40' 45.813"	104° 09' 13.915"	LSP	894	09° 38' 56.252"	104° 22' 18.601"
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			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 – S3T1 data absent TB1R1- Ko'ed maggie not used																						
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Posnet locations & remarks: good - none - intermittent			Acoustic remarks:				Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																		
Tailbuoy #1	none	Gun string #1	good				SP spacing: 37.5m																		
Tailbuoy #2	good	Gun string #2	good																						
Tailbuoy #3	good	Gun string #3	good																						
Tailbuoy #4	good	Gun string #4	good				line status: Line Complete																		

[illegible]

Seq# 140		Line Name: EPR3D1596R		NAVIGATION		DATE: 15/08/08																			
Line Brg: 82 °		LINE LOGS		JULIAN DAY: 228																					
CLIENT: National Science Foundation				SURVEY: East Pacific Ridge3D		MGL0812																			
DC SOL: -154.0m DC EOL: -149.2m SMG SOL: 4.2 knots SMG EOL: 4.2 knots WEATHER WIND SOL: 1-2m knots WIND EOL: 0.0 knots SEAS SOL: 1-2m SEAS EOL: 1-2m		DEPTH SOL: 2875.5m DEPTH EOL: 2871.8m FEATHER SOL: 62.9 ° FEATHER EOL: -2.6 ° MAX FEATHER: 62.9 °		NAVIGATION SYSTEM USED: C-Nav - Primary NAVIGATION SYSTEM USED: SeaPath 200 NAVIGATION SYSTEM USED: Pos MV GRAVITY METER: BMG-II MAGNETOMETER: GeoMetrics MAG DEC USED : 7.59°																					
		00:00 - 12:00 cst => Mike Martello, Kaori Kobayashi 12:00 - 24:00 cst => David Martinson, Scott Upper																							
SP	TIME(utc)	EVENT	COMMENTS																						
895	0113	FSP	Start of line																						
895	0113	FFSP	First full fold shot point																						
1165	0230	reshoot	first shot of reshoot																						
1216	0244	reshoot	last shot of reshoot																						
1220	0245	reshoot	first shot of reshoot																						
1270	0259	reshoot	last shot of reshoot																						
1539	0415	LSP	Last shot point																						
			<table border="1"> <thead> <tr> <th colspan="4">VESSEL POSITION</th> </tr> <tr> <th></th> <th>SP</th> <th>Latitude (N)</th> <th>Longitude (W)</th> </tr> </thead> <tbody> <tr> <td>FSP</td> <td>895</td> <td>09° 41' 26.836"</td> <td>104° 22' 38.776"</td> </tr> <tr> <td>LSP</td> <td>1539</td> <td>09° 43' 16.107"</td> <td>104° 09' 33.958"</td> </tr> </tbody> </table>							VESSEL POSITION					SP	Latitude (N)	Longitude (W)	FSP	895	09° 41' 26.836"	104° 22' 38.776"	LSP	1539	09° 43' 16.107"	104° 09' 33.958"
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			NAVIGATION OFFSET APPLIED NRP - Stern _____ -4.20m NRP - COS _____ -295 NRP - CNG _____ -495 COS - CNG _____ -200 NRP - CMP _____ -395																						
			General remarks: S1C9 KO'ed S2C6 KO'ed G1T1 - S3T1 data absent TB1R1- Ko'ed maggie not used																						
			<div style="display: flex; justify-content: space-around;"> <div> P1 EPR3D1596R.0.p190 </div> <div> P2 EPR3D1596R.0.p294 </div> </div> <div style="border: 2px solid black; padding: 5px; text-align: center; margin-top: 20px;"> 4 X 6000m X 150m </div>																						
Posnet locations & remarks: good - none - intermittent			Acoustic remarks:			Langseth: AXIS.LMN PacificRise.SCN(001) Lang3D.RTCN																			
Tailbuoy #1	none	Gun string #1	good			SP spacing: 37.5m																			
Tailbuoy #2	good	Gun string #2	good																						
Tailbuoy #3	good	Gun string #3	good																						
Tailbuoy #4	good	Gun string #4	good			line status: Line Complete																			

