
APPENDIX G:
SUMMARY OF NSF-FUNDED MARINE SEISMIC SURVEYS (2003-2009)

NSF-Funded Marine Seismic Surveys (2003-2009)

Cruise Year	Region	Description	Survey Dates*	Lead	PI (Institution)	Ship	Cruise Length*	Array Size	Vol (in ³)	Survey Lines* (km)	Seismic Ops* (hr)	Status	PAM	Location		Water Depth (m)	Available Documents							Notes
														Lat.	Long.		NSF EA	IHA FONSI	IHA Appl.	IHA Issued	FedReg Notices	90-d Rep.	NMFS BO	
2003	N Gulf of Mexico	Calibration cruise	May-Jun 03	L-DEO	Diebold (L-DEO)	Ewing	4 d	2 GI guns 6-20 airguns	105 1,350-8,600	16 306	1 16	Compl.	Y	29°N	87°W	<100 - >1,000	Y	Y	Y	Y	Y	Y	Y	
	Hess Deep - E Trop Pac	W of Galapagos Isl	Jul 03	L-DEO	Christesen (UT-A)	Ewing	12 d	10 airguns 12 airguns	3,005 3,721	1,580	192	Compl.	N	2°N	102°W	2,000- 3,400	Y	Y	Y	Y	Y	Y	Y	
	Norwegian Sea	Storegga slide area	Aug-Sep 03	L-DEO	Holbrook (UWY)	Ewing	27 d	2 GI guns 6 airguns	210 1,350	127 2,339	14 252	Compl.	N	64°N	3°W	<100 - 5,000	Y	Y	Y	Y	Y	Y	Y	
	Mid-Atlantic	TAG	Oct 03	L-DEO	Sohn (WHOI)	Ewing	6 d	20 airguns	8,575	302	37	Compl.	N	26°N	45°W	1,500 - 4,500	Y	Y	Y	Y	Y	Y	Y	
	NW Atlantic	Bermuda Rise	Nov 03	L-DEO	McNutt (MBARI)							CANC.					Y	Y	Y	Y		Y	Cruise deferred; 90-d report is a letter report	
2004	SE Caribbean	off Venezuela	Apr-May 04	L-DEO	Sawyer (Rice) & Mann (UTIG)	Ewing	40 d	20 airguns	6,947	6,605	755	Compl.	Y	13°N	65°W	15 - 6,000	Y	Y		Y	Y	Y		
	N Gulf of Mexico	Calibration cruise										CANC.						Y					For EA see 2003 GoM; cruise cancelled	
	NW Atlantic	ADWC - far SE of Nfld.	Jul-Aug 04	L-DEO	Norris (SIO)	Knorr	23 d	1 GI gun	75	3,757	419	Compl.	N	40°N	48°W	2,468 - 5,372	Y	Y	Y	Y	Y	Y	Y	For EA, IHA App, FR, BO - see 2003 mid-Atlantic
	Gulf of Alaska	Nearshore waters	Sep 04	L-DEO	Mix (OSU) & Jaeger (UFG)	Ewing	17 d	2 GI guns	210	1,111	131	Compl.	N	59°N	141°W	30 - >3,000	Y	Y		Y	Y	Y	Y	
	NE Pacific	Blanco, Off Oregon	Oct-Nov 04	L-DEO	Christesen & McIntosh (UTIG)	Ewing	7 d	10 airguns 12 airguns	3,050 3,705	988	119	Compl.	Y	43°N	130°W	1,600 - 5,000	Y	Y		Y	Y			
	ETP-C America	W of Nicaragua	Nov-Dec 04	L-DEO	Fulthorpe & McIntosh (UTIG)	Ewing	29 d	3 GI guns	135 315	3,184	394	Compl.	Y	12°N	87°W	<100 - >5,000	Y	Y		Y	Y			Because of concerns by Mexico, the seismic component of the project was cancelled.
2005	S Gulf of Mexico (Yucatan)	Chicxulub crater	Jan-Feb 05	L-DEO	Barton (U Cambridge) & Gulick (UTIG)	Ewing	23 d	20 airguns	6,970	1,892	205	Compl.	Y	22°N	90°W	<100	Y	Y		Y	Y	Y		
	Aleutians		Jul-Aug 05	L-DEO	Yogodzinski (USCarolina) et al.	Thompson	4 d	1 GI gun	45	537	44	Compl.	N	var.	var.	100 - 3,500	Y	Y		Y	Y	Y		
	Trans-Arctic	Alaska to Svalbard	Aug-Sep 05	UAF	Coakley (UAF) et al.	Healy	33 d	2 G guns	500	2,273	294	Compl.	Y	var.	var.	223 - 4,873	Y	Y		Y	Y	Y		
	SW Pacific	far S of Tahiti	Feb-Mar 05	SIO	Lyle (BSU)	Melville	41 d	2 GI guns	90	unk.	unk.	Compl.		var.	var.	4,000 - 5,000	Y	Y		Y	Y			
2006	S Pacific - Louisville Ridge	E of New Zealand	Jan-Feb 06	SIO	Lonsdale & Gee (SIO)	Revelle	21 d	2 GI guns	90	unk.	unk.	EA	N	var.	var.	800 - 2,300	Y	Y	Y		Y			
	Arctic Ocean	W Cdn Basin, Chukchi & Mendeleev Ridge	Jul-Aug 06	UTIG	Lawver (UTIG) et al.	Healy	21 d	4 G guns 2-3 airguns	1,840 - 2,340	339	77	Compl.		var.	var.	35 - 3,899	Y	Y			Y			
	NW Atlantic	Bermuda Rise	Oct-Nov 06	L-DEO	McNutt (MBARI)							CANC.					Y						Cancelled; copy of Ltr of Refusal from Gov't of Bermuda	
	E Trop Pacific	IODP	Mar 06	SIO	Lyle (BSU) et al.	Revelle	unk.	2 GI guns	90	unk.	unk.			var.	var.	3,900 - 5,200		Y		Y				
2006-07	S Pacific	E of NZ - IODP	Dec 06-Jan 07	SIO	D'Hondt (URI) et al.	Revelle	40 d	2 GI guns	90	unk.	unk.	EA		var.	var.	3,200 - 5,700	Y	Y						
2007	NE Pacific	Off coast of OR	Sep 07	SIO	Trehu (OSU)	Wecoma	2 d	1 GI gun	45		53	Compl.	N	45°N	125°W	110 - 3,050	Y	Y	Y	Y	Y		Doc of EFH determination included	
	NE Indian Ocean	90 E Ridge - IODP	May-Jul 07	SIO	Sager (TA&M) et al.	Revelle	55 d	2 GI guns	90	2,700	245	EA	N	var.	var.	1,600 - 5,100	Y	Y						
	Queen Charlotte Snd	BATHOLITHS	Fall									CANC.												
2007-08	N Gulf of Mexico	Calibration cruise	Nov 07-Feb 08	L-DEO	Diebold (L-DEO)	Langseth	14 d	18 airguns 36 airguns	3,300 6,600	865	104	Compl.	Y	28°N	95°W	<100 - >1,000	Y	Y		Y	Y			Adopted 2003 Ewing calibration cruise EA
2008	C America - Carib & C America - Pacific	off Costa Rica	Feb-Mar08 Mar-Apr 08	L-DEO	Holbrook (UWY)	Langseth	14 d 27 d	36 airguns 36 airguns	6,600 6,600	2,204 4,257	264 540	Compl.	Y	var.	var.	<100 - >2,500	Y	Y	Y		Y	Y		
	NE Pacific	Off coast of OR	Jun-Jul 08	SIO	Bangs (UTIG)	Thompson	15 d	2 GI guns	150	974	189	Compl.	N	45°N	125°W	650 - 1,650	Y	Y	Y	Y	Y	Y	Y	Adopted 2007 EA (Trehu) for NE Pacific; also includes Suppl. EA prepared by NMFS to support issuance of 2008 IHA.
	E Gulf of Alaska	STEEP	Sep-Oct 08	L-DEO	Gulick & Christesen (UTIG)	Langseth	11 d	36 airguns	6,600	1,633	203	Compl.	Y	59°N	140°W	40 - 4,000	Y	Y	Y	Y		Y	Y	
	E Trop Pacific	QDG EPR	Apr-May 08 Jun-Aug 08	L-DEO	McGuire (WHOI) et al.	Langseth	4 d 32 d	36 airguns 18 airguns	6,600 3,300	146 3,045	20 379	Compl.	Y	var.	var.	>2,000	Y	Y	Y		Y	Y		
	Santa Barbara Channel		Nov 08	SIO	Nicholson (UCSB)	Melville	12 d	Boomer/sparker 1 GI gun	1.5-2 kJ 25-45	~1,100	unk.	EA	N	34°N	120°W	<50 - 580	Y	Y		Y			Y	
2009	SE Asia	TAIGER	Apr-Jul 09	L-DEO	McIntosh (UTIG) & Wu (SUNYB)	Langseth	~90 d	36 airguns	6,600	15,143	1,879	Compl.	Y	var.	var.	20 - 6,800	Y	Y	Y	Y	Y	Y	Y	Numerous supplementals included.
	SW Pacific	E Lau Spreading Ctr	Jan-Mar 09	L-DEO	Wiens (Wash. U) et al.	Langseth	26 d	36 airguns	6,600	4,784	592	Compl.	Y	20°S	176°W	>1,000	Y	Y	Y	Y	Y	Y	Y	
	NW Atlantic	continental shelf off MA	Aug 09	Rice	Dugan (Rice)	Endeavor	15 d	1-2 GI guns or sparker	45-90	1,444	197	Compl.	N	41°N	70°W	25 - 200	Y	Y	Y	Y	Y	Y	Y	
	NE Pacific	Off coast of OR	Jul 09	SIO	Trehu (OSU)	Wecoma	5 d	1 GI gun	45		32	EA	N	45°N	125°W	110 - 3,050	Y	Y	Y	Y	Y		Y	
	NE Pacific	ETOMO BC, Canada	Aug-Sep 09	LDEO	Toomey (UO)	Langseth	15 d	36 airguns	6,600	3,002	210	Compl.	Y	48°N	128°W	>1,000	Y	Y	Y		Y	Y		

Status: Canc. = cancelled; Compl. = completed

* If the cruise was completed, values are from the post-cruise 90-d report; if cruise was not been completed, values are based on the EA and are estimated. "Cruise length" is the duration of active seismic operations (if known) not total cruise length.