

APPENDIX

USGS Field Activity	Field Activity or Data Web Sites	Field Activity Details as indicated on the Field Activity web site.			
		Survey Equipment	Survey Info	Data Type(s)	Data Collected
1993-009-FA	http://cmgds.marine.usgs.gov/fan_info.php?fa=1993-009-FA	3.5 kHz	---	Sub Bottom Profiler	1993-009-FA-SE-001 (microfilm of)
		Sidescan sonar	---	Sidescan	1993-009-FA-SO-001 (Collection of paper record displays of sidescan sonar data for lines)
					1993-009-FA-SO-002 (microfilm of)
					1993-009-FA-SO-003 (Digital tapes of SSS LINES 1-59: inventory #6164, 6165, 6166, and 6167.)
		SeaBOSS	---	Experiments	
				Surveys	
				Photo	
				Video	
				Biology	
				Geology	
				Species ID	
		Corer - gravity	---	Geology	1993-009-FA-SC-001 (CORE, GRAB samples)
		Corer - piston	---	Geology	
		GPS (wh)	---	Navigation	1993-009-FA-LN-002-01 (Raw navigation data files.)
					1993-009-FA-LN-001 (Navigation trackline plot for field activity 93009)
		Loran-C	---	Navigation	
1995-007-FA	http://woodshole.er.usgs.gov/publications/of01-97/	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://woodshole.er.usgs.gov/publications/of01-157/				Chirp navigation ()
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1995-007-FA	DGPS	---	Navigation	Water gun navigation ()
	http://cmgds.marine.usgs.gov/images.php?cruise=1995-007-FA				1995-007-FA-LN-001-02 (Sidescan sonar navigation data)
					1995-007-FA-LN-001-03 (Chirp sonar navigation data)
					1995-007-FA-LN-001-01 (Water gun navigation data)
		SIS1000 Sidescan sonar	---	Sidescan	1995-007-FA-SO-001-01 (Sidescan sonar data and images)
		Water gun (wh)	---	Air Gun / Water Gun	
		3.5 kHz	---	Sub Bottom Profiler	
		Grab sampler - Van Veen	---	Geology	1995-007-FA-SC-001 (GRAB samples)
		Boomer	---	Boomer	
				Air Gun / Water Gun	Water gun data ()
		Single channel hydrophone	---	Boomer	Chirp seismic data ()
				Bubble Gun	1995-007-FA-SE-002-01 (Water gun data and images)
				Sparker	1995-007-FA-SE-001-01 (chirp subbottom data and images)
				Sub Bottom Profiler	
1996-004-FA	http://woodshole.er.usgs.gov/publications/of00-340/	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://woodshole.er.usgs.gov/publications/of01-96/				Boomer navigation ()
	http://woodshole.er.usgs.gov/publications/of00-396/				Chirp navigation ()
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1996-004-FA	DGPS	---	Navigation	Water gun navigation ()
	http://cmgds.marine.usgs.gov/images.php?cruise=1996-004-FA				1996-004-FA-LN-002-01 (Processed navigation)
					1996-004-FA-LN-001-01 (Ship's trackmap.)
					1996-004-FA-LN-003 (DGPS navigation printout.)
		SIS1000 Sidescan sonar	---	Sidescan	1996-004-FA-SO-001 (Sidescan sonar data)

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		Water gun (wh)	---	Air Gun / Water Gun	
		3.5 kHz	---	Sub Bottom Profiler	
		GeoPulse system	---	Sub Bottom Profiler	1996-004-FA-SE-002-03 (CHIRP subbottom data - SEG-Y data files and images.)
		Echosounder	---	Single Beam	Boomer seismic data ()
		Grab sampler	---	Biology Geology	1996-004-FA-SE-002-02 (Boomer subbottom data - SEG-Y data files and images.)
		Benthos model 372 camera and strobe	---	Photo	
		Single channel hydrophone	---	Air Gun / Water Gun	1996-004-FA-SE-001 (Collection of paper record displays of seismic data(H2O) for lines)
				Boomer	Water gun data ()
				Bubble Gun	Chirp seismic data ()
				Sparker	1996-004-FA-SE-002-01 (Water Gun Data - SEG-Y data files and images.)
				Sub Bottom Profiler	
1996-040-FA	http://woodshole.er.usgs.gov/publications/of00-467/	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1996-040-FA	DGPS	---	Navigation	Chirp navigation ()
	http://cmgds.marine.usgs.gov/images.php?cruise=1996-040-FA				Boomer navigation ()
					1996-040-FA-LN-001-01 (Processed navigation)
		GeoPulse system	---	Sub Bottom Profiler	Chirp seismic data ()
					1996-040-FA-SE-002 (Remastered DVD disk of Chirp subbottom data, lines 1-79.)
					1996-040-FA-SE-001-02 (CHIRP Subbottom Data - SEG-Y data files and images.)
					Boomer seismic data ()
					1996-040-FA-SE-001-01 (Boomer Subbottom Data - SEG-Y data files and images.)
		3.5 kHz	---	Sub Bottom Profiler	
		SIS1000 Sidescan sonar	---	Sidescan	
		ISIS	---	Sidescan	
		Grab sampler	---	Biology Geology	1996-040-FA-SC-001 (GRAB samples)
		Camera- deep sea	---	Photo	
		Video camera - deep sea	---	Video	
1997-011-FA	http://woodshole.er.usgs.gov/publications/of00-241/	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1997-011-FA	DGPS	---	Navigation	Nav data ()
	http://cmgds.marine.usgs.gov/images.php?cruise=1997-011-FA				1997-011-FA-LN-001 (Chirp Field Navigation Data and Shotpoint Maps)
					1997-011-FA-LN-002 (Boomer and Sparker Field Navigation Data and Shotpoint Maps)
		SIS1000 Sidescan sonar	---	Sidescan	
		Echosounder	---	Single Beam	
		GeoPulse system	---	Sub Bottom Profiler	1997-011-FA-SE-001-04 (CHIRP Subbottom Data - SEG-Y data files and images.)
					1997-011-FA-SE-001-01 (Boomer Subbottom Data - SEG-Y data files and images.)
					sparker seismic data ()
					1997-011-FA-SE-003 (Remastered 1-DVD, Datasonics Chirp subbbottom data)

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		SeaBOSS	---	Experiments	
				Surveys	
				Photo	
				Video	
				Biology	
				Geology	
				Species ID	
		Sparker system	---	Sparker	
		Single channel hydrophone	---	Air Gun / Water Gun	1997-011-FA-SE-001-03 (Sparker Subbottom Data - SEG-Y data files and images.)
				Boomer	Sparker seismic data ()
				Bubble Gun	Boomer seismic data ()
				Sparker	1997-011-FA-SE-002 (Remastered 3 DVD set, Boomer and Sparker subbottom data.)
				Sub Bottom Profiler	
1997-032-FA	http://woodshole.er.usgs.gov/publications/of00-142/	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://woodshole.er.usgs.gov/publications/of00-152/	DGPS	---	Navigation	Chirp navigation ()
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1997-032-FA				1997-032-FA-LN-001 (Chirp Field Navigation Data and Shotpoint Maps)
	http://cmgds.marine.usgs.gov/images.php?cruise=1997-032-FA				1997-032-FA-LN-002 (Boomer and Sparker Field Navigation Data and Shotpoint Maps)
					Boomer/Sparker navigation ()
		SIS1000 Sidescan sonar	---	Sidescan	1997-032-FA-SO-001 (Sidescan-Sonar data and DGPS Navigation data.)
		GeoPulse system	---	Sub Bottom Profiler	1997-032-FA-SE-001 (Boomer and Sparker Subbottom Data, Discs 1-7 - SEG-Y data files and images for Lines 1-10 (Area 1), 11-20 (Area 3), 22-28 (Area 3), 37-38 (Area 4), 57-65 (Area 3), 66-72 (Area 2), 73-86 (Area 1), 87-91 (Area 2), 92-94 (Area 3), 95-101 (Area 2), 108 (Area 3), 141-148 (Area 3), and 173 (Area 3).)
					1997-032-FA-SE-002 (Boomer and Sparker Subbottom Data, Discs 8-13 - SEG-Y data files and images for Lines 29-36 (Area 4), 39-47 (Area 4), 48 (Area 5), 49-56 (Area 4), 109 (Area 4), 110-111 (Area 5), 114-118 (Area 5), 121-130 (Area 5), 131 (Area 4), 132-139 (Area 5), 140 (Area 4), 149-159 (Area 4), 160-161 (Area 5), and 172 (Area 4).)
					1997-032-FA-SE-003 (Boomer and Sparker Subbottom Data, Discs 14 & 15 - SEG-Y data files and images for Lines 162-171 (Area 5).)
					1997-032-FA-SE-004 (CHIRP Subbottom Data - SEG-Y data files and images.)
		Echosounder	---	Single Beam	Chirp seismic data ()
		Grab sampler - Van Veen	---	Geology	1997-032-FA-SC-001 (GRAB samples)
		Sparker system	---	Sparker	
		Single channel hydrophone	---	Air Gun / Water Gun	1997-032-FA-SE-005 (Boomer and Sparker Subbottom Data, Discs 1-7 - SEG-Y data files and images for Lines 1-10 (Area 1), 11-20 (Area 3), 22-28 (Area 3), 37-38 (Area 4), 57-65 (Area 3), 66-72 (Area 2), 73-86 (Area 1), 87-91 (Area 2), 92-94 (Area 3), 95-101 (Area 2), 108 (Area 3), 141-148 (Area 3), and 173 (Area 3).)
				Boomer	1997-032-FA-SE-006 (Boomer and Sparker Subbottom Data, Discs 8-13 - SEG-Y data files and images for Lines 29-36 (Area 4), 39-47 (Area 4), 48 (Area 5), 49-56 (Area 4), 109 (Area 4), 110-111 (Area 5), 114-118 (Area 5), 121-130 (Area 5), 131 (Area 4), 132-139 (Area 5), 140 (Area 4), 149-159 (Area 4), 160-161 (Area 5), and 172 (Area 4).)
				Bubble Gun	1997-032-FA-SE-007 (Boomer and Sparker Subbottom Data, Discs 14 & 15 - SEG-Y data files and images for Lines 162-171 (Area 5).)
				Sparker	Boomer seismic data ()

USGS Field Activity	Field Activity or Data Web Sites	Field Activity Details as indicated on the Field Activity web site.			
				Sub Bottom Profiler	Sparker seismic data ()
1998-009-FA	http://cmgds.marine.usgs.gov/fan_info.php?fa=1998-009-FA	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://cmgds.marine.usgs.gov/images.php?cruise=1998-009-FA	Alpine Vibracorer	---	Geology	1998-009-FA-SC-001 (CORE samples)
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1998-009-FA	Boomer	---	Boomer	
		Sidescan sonar	---	Sidescan	1998-009-FA-SO-001 (Digital tape(s) of SSS L11-17, SSS L18-20,)
		HYPACK	---	Navigation	1998-009-FA-LN-001 (Floppy disk(s) containing NAV HYPACK, NAV HYPACK,)
		Grab sampler - Van Veen	---	Geology	
				Air Gun / Water Gun	1998-009-FA-SE-002-01 (Processed SEG-Y seismic data)
		Single channel hydrophone	---	Boomer	1998-009-FA-SE-001 (CD ROM disk of BOOM ELICS LINE 1-5,8-20, BOOM SEG-Y RAW 1-5,8-10, BOOM SEG-Y RAW 11-17, BOOM SEG-Y PROCESSED,)
				Bubble Gun	1998-009-FA-SE-002 (Raw seismic data)
				Sparker	Boomer seismic data ()
				Sub Bottom Profiler	
1998-013-FA	http://woodshole.er.usgs.gov/publications/of99-037/	Survey Equipment	Survey Info	Data Type(s)	Data Collected
	http://woodshole.er.usgs.gov/publications/of99-395/				1998-013-FA-LN-001-04 (Sparker Navigation Data and Shotpoint Maps)
	http://cmgds.marine.usgs.gov/fan_info.php?fa=1998-013-FA				1998-013-FA-LN-001-02 (Water gun Navigation Data and Shotpoint Maps)
	http://cmgds.marine.usgs.gov/images.php?cruise=1998-013-FA				1998-013-FA-LN-001-03 (Sidescan sonar Navigation Data and Shotpoint Maps)
		DGPS	---	Navigation	1998-013-FA-LN-001-01 (Chirp Field Navigation Data and Shotpoint Maps)
					1998-013-FA-LN-002 (Remastered 6 DVD set of Sidescan-Sonar and DGPS Navigation data.)
					Water gun navigation ()
					Chirp navigation ()
					1998-013-FA-SO-001 (Sidescan Data Link - Disk 1.)
					1998-013-FA-SO-002 (Sidescan Data Link - Disk 2.)
					1998-013-FA-SO-003 (Sidescan Data Link - Disk 3.)
		SIS1000 Sidescan sonar	---	Sidescan	1998-013-FA-SO-004 (Sidescan Data Link - Disk 4.)
					1998-013-FA-SO-005 (Sidescan Data Link - Disk 5.)
					1998-013-FA-SO-006 (Sidescan Data Link - Disk 6.)
					1998-013-FA-SO-007 (Remastered 6 DVD of Sidescan-Sonar and DGPS Navigation data.)
					1998-013-FA-SE-004 (CHIRP Subbottom Data - SEG-Y data files and images, CD 2.)
					Chirp seismic data ()
					1998-013-FA-SE-005 (CHIRP Subbottom Data - SEG-Y data files and images, CD 3.)
					1998-013-FA-SE-006 (CHIRP Subbottom Data - SEG-Y data files and images, CD 4.)
					1998-013-FA-SE-007 (CHIRP Subbottom Data - SEG-Y data files and images, CD 5.)
		GeoPulse system	---	Sub Bottom Profiler	1998-013-FA-SE-008 (CHIRP Subbottom Data - SEG-Y data files and images, CD 6.)
					1998-013-FA-SE-003 (CHIRP Subbottom Data - SEG-Y data files and images, CD 1.)
					1998-013-FA-SE-009 (CHIRP Subbottom Data - SEG-Y data files and images, CD 7.)
					1998-013-FA-SE-010 (CHIRP Subbottom Data - SEG-Y data files and images, CD 8.)
					1998-013-FA-SE-011 (CHIRP Subbottom Data - SEG-Y data files and images, CD 9.)
					1998-013-FA-SE-012 (2 remastered dvd of Chirp Subbottom (seg-y) data files and images.)
		Air gun	---	Air Gun / Water Gun	
		Sparker system	---	Sparker	

USGS Field Activity	Field Activity or Data Web Sites	Field Activity Details as indicated on the Field Activity web site.			
				Air Gun / Water Gun	1998-013-FA-SE-001 (Water Gun Subbottom Data - SEG-Y data files and images.)
		Single channel hydrophone	---	Boomer	1998-013-FA-SE-002 (Sparker Subbottom Data - Images only.)
				Bubble Gun	Water gun data ()
				Sparker	Sparker seismic data ()
				Sub Bottom Profiler	
		Water gun (wh)	---	Air Gun / Water Gun	
		Echosounder	---	Single Beam	
1999-023-FA	http://cmgds.marine.usgs.gov/fan_info.php?fa=1999-023-FA	Survey Equipment	Survey Info	Data Type(s)	Data Collected
		Alpine Vibracorer	---	Geology	
		DGPS	---	Navigation	1999-023-FA-LN-001-01 (Chirp Field Navigation Data and Shotpoint Maps) 1999-023-FA-LN-001-02 (Boomer Field Navigation Data and Shotpoint Maps)
		SIS1000 Sidescan sonar	---	Sidescan	
		Boomer	---	Boomer	
		Grab sampler - Van Veen	---	Geology	
				Air Gun / Water Gun	1999-023-FA-SE-002 (Boomer Subbottom Data images)
		Single channel hydrophone	---	Boomer	1999-023-FA-SE-001 (Chirp Subbottom Data images)
				Bubble Gun	
				Sparker	
				Sub Bottom Profiler	
2011-005-FA	http://cmgds.marine.usgs.gov/fan_info.php?fa=2011-005-FA http://pubs.usgs.gov/of/2014/1203/ofr2014-1203-data_catalog.html	Survey Equipment	Survey Info	Data Type(s)	Data Collected
		Sensor - MVP30	This system is used to acquire the speed of sound within the water column during survey operations.	Sound Velocity	2011-005-FA_mvp (Locations and data of sound velocity profiles collected by the USGS offshore of Fire Island, NY in 2011 (Geographic, WGS 84, Esri point shapefile, ASCII and PNG image formats).)
	http://woodshole.er.usgs.gov/field-activity-data/2011-005-FA/	SWATHplus-M 234 kHz	This system is used to acquire swath bathymetric and acoustic backscatter data.	Interferometric	FI_Bathy5m (5-meter swath bathymetric grid collected by the USGS offshore of Fire Island, NY in 2011 (UTM zone 18N, WGS 84, Esri binary grid file format).)
					2011-005-FA_swathtrk (Backscatter and bathymetric trackline navigation for the Bathyswath SWATHplus sonar collected by the USGS offshore of Fire Island, NY in 2011 (Geographic, WGS84, Esri polyline shape file).)
					FI_sonar5m (5-meter bacscatter mosaic of Bathyswath SWATHplus sonar image collected by the USGS offshore of Fire Island, NY in 2011 (UTM zone 18N, WGS 84, 24-bit continuous unsigned integer GeoTIFF format).)
					2011-005-FA_chimages (Images of Edgetech SB-512i chirp subbottom profiler data collected by the USGS offshore of Fire Island, NY in 2011 (PNG image format).)

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		Edgetech chirp subbottom profiler 512i	This system is used to acquire chirp sub-bottom data in a frequency range of 500 Hz to 12 kHz.	Sub Bottom Profiler	2011-005-FA_chirptrk (Trackline navigation for the Edgetech SB-512i chirp subbottom profiler data collected by the USGS offshore of Fire Island, NY in 2011 (Geographic, WGS 84, Esri polyline shapefile).)
					2011-005-FA_chirp500sht (Shot point navigation at 500-shot intervals for the Edgetech SB-512i chirp subbottom profiler data collected by the USGS offshore of Fire Island, NY in 2011 (Geographic, WGS 84, Esri point shapefile, and unique shot point navigation included in CSV file format).)
		HYPACK	These are the navigation data acquired during survey operations and stored in HYPACK raw format.	Navigation	2011-005-FA_HYPACK (Text files of the RTK-GPS, DGPS and Wide Area Augmentation System (WAAS) navigation collected by the USGS offshore of Fire Island, NY in 2011 (WGS 84, HYPACK ASCII text file formats).)
2014-072-FA	http://woodshole.er.usgs.gov/field-activity-data/2014-072-FA/				
	http://dx.doi.org/10.5066/F7C827BX				
	Swath bathymetry collected offshore of Fire Island and western Long Island, New York in 2014, U.S. Geological Survey Field Activity 2014-072-FA				
		Filename and Description	Preview	FGDC Metadata	Data and Metadata Download
		Bathymetry			
		FI_MB5m_2014	thumbnail image of 5 meter swath bathymetric grid	HTML	2014-072-FA_FI_MB5m.zip
		5-meter swath bathymetric grid collected by Alpine Ocean Seismic Survey, Inc., offshore of Fire Island, NY in 2014, as part of a collaborative U.S. Army Corp of Engineers and USGS mapping effort (UTM zone 18N, WGS 84, Esri binary grid file format).			
				FAQ	33.3 MB
				TEXT	
				XML	
		NYB_MB5m_2014	thumbnail image of 5meter bathymetric grid	HTML	2014-072-FA_NYB_MB5m.zip

USGS Field Activity	Field Activity or Data Web Sites	Field Activity Details as indicated on the Field Activity web site.			
		5-meter swath bathymetric grid collected by Alpine Ocean Seismic Survey, Inc., offshore of western Long Island, NY in 2014, as part of a collaborative U.S. Army Corp of Engineers and USGS mapping effort (UTM zone 18N, WGS 84, Esri binary grid file format).		FAQ	9.06 MB
				TEXT	
				XML	
		Backscatter			
		2014-072-FA_FI_Sonar5m	thumbnail image of 5 meter backscatter	HTML	2014-072-FA_FI_sonar5m.zip
		5-meter backscatter image collected by Alpine Ocean Seismic Survey, Inc., offshore of Fire Island, NY in 2014, as part of a collaborative U.S. Army Corp of Engineers and USGS mapping effort (UTM zone 18N, WGS 84, 32-bit continuous unsigned integer GeoTIFF format).		FAQ	20.1 MB
				TEXT	
				XML	
		2014-072-FA_NYB_Sonar5m	thumbnail image of 5 meter backscatter image	HTML	2014-072-FA_nyb_sonar5m.zip

USGS Field Activity	Field Activity or Data Web Sites	Field Activity Details as indicated on the Field Activity web site.			
		5-meter backscatter image collected by Alpine Ocean Seismic Survey, Inc., offshore of western Long Island, NY in 2014, as part of a collaborative U.S. Army Corp of Engineers and U.S. Geological Survey mapping effort (UTM zone 18N, WGS 84, 32-bit continuous unsigned integer GeoTIFF format).		FAQ	6.10 MB
				TEXT	
				XML	
		Log Files			
		Acquisition and processing logs maintained by Alpine Ocean Seismic Survey, Inc., during U.S. Geological Survey Field Activity 2014-072-FA offshore of southern Long Island, NY in 2014, as part of a collaborative U.S. Army Corp of Engineers and U.S. Geological Survey mapping effort.	no preview available	HTML	2014-072-FA_Alpine_logs.zip
				FAQ	3.97 MB
				TEXT	
				XML	