

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C500	7/9/08	20	38	4 Hz shot 75m same 4-16 kHz 10ms	7/8/08	20	45	Saving chirp as JSR	4-7 m
Hypack	029-0234	7/9/08	20	36	JSR	"	20	45	Running on Port Engine	
Hypack	028-0246	7/9/08	20	45		"	20	52		
Chirp	08C501	7/9/08	20	45		"	20	58		
Chirp	08C502	"	20	58		"	21	27		
Hypack	026-2059	"	20	59		"	21	25		
Hypack	024-2125	"	21	25		"	21	42		
Chirp	08C503	7/9/08	21	27		"	21	43		
Chirp	08C504	"	21	43		"	22	05		
Hypack	022-2142	"	21	42		"	22	04		
Chirp	08C565	"	22	05		"	22	20		
Hypack	020-2023	"	22	04		"	22	19		
Chirp	08C506	"	22	20		"	22	32		
Hypack	018-2219	"	22	19		"	22	38		
Hypack	016-2238	"	22	38		"				
Chirp	08C507	"	22	40		"	22	51		
Chirp	08C508	"	22	51		"	22	54	EOD	
Chirp	08C509	7/16/08	15	20		"	15	25	Portion in - Chirp	
Hypack	014-1520	"	15	20		"	15	25	3m - Chirp	
Chirp	08C510	"	15	40	Chirp	"	15	55	Chirp in a position	
Hypack	012-1550	"	15	50		"	15	55		
Hypack	08C511	"	15	56	Chirp	"	16	05		
Hypack	006-1555	"	15	55		"	16	09		1.5m
Hypack	004-1628	"	16	28		"	16	41		
Chirp	08C512	"	16	23		"	16	41		
Hypack	010-1641	"	16	41		"	16	55		
Chirp	08C513	"	16	42		"	16	56		
Hypack	008-1655	"	16	55		"	17	04		
Chirp	08C514	"	16	56		"	17	09		
Hypack	002-1709	"	17	09		"	17	25		
Chirp	08C515	"	17	09		"	17	28		
Hypack	043-1725	"	17	25		"	18	19		
Chirp	08C516	"	17	25		"	18	19		

Activity ID: 08CT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Hypack	029-1823	7/10/08	18	23		7/10/08	18	33		509
Chirp	08C517	"	18	23		"	18	33		
Hypack	028-1832	"	18	33		"	18	48		
Chirp	08C518	"	18	33		"	18	48		
Chirp	08C519	"	19	50		"	20	08		
Hypack	030-1958	"	19	50		"	20	08		
Hypack	032-2008	"	20	08		"	20	31		
Chirp	08C520	"	20	08		"	20	31		
Hypack	034-2031	"	20	31		"	20	53		
Chirp	08C521	"	20	31		"	20	53		
Chirp	08C522	"	20	53		"	21	15		
Hypack	036-2053	"	20	53		"	21	15		
Chirp	08C523	"	21	15		"	21	27		
Hypack	038-2114	"	21	14		"	21	27		
Chirp	08C524	"	21	27		"	21	41		
Hypack	040-2127	"	21	26		"	21	40		
Hypack	041-2140	"	21	40		"	21	49		
Chirp	08C525	"	21	49		"	21	54		
Hypack	043-2149	"	21	49		"	21	54		
Hypack	042-2154	"	21	54		"	22	03		
Hypack	039-2203	"	22	03		"	22	14		
Chirp	08C526	"	~22	03		"	~22	14		
Chirp	08C527	"	22	14		"	22	24		
Hypack	037-2214	"	22	14		"	22	24		
Chirp	08C528	"	22	24		"	22	39		
Hypack	035-2224	"	22	24		"	22	39		
Chirp	08C529	"	22	39		"	22	48		
Hypack	033-2237	"	22	39		"	22	47		
Chirp	08C-530	"	22	47		"	23	10		
Hypack	32-2247	"	22	47		"	23	10		462m
Chirp	08C531	"	23	10		"	23	50		
Hypack	022-2310	"	23	10		"	23	50	EDD	

Activity ID: 08CTT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C532	7/11/08	17	16	config same as previous	7/11/08	17	39		2.86m
Hypack	602-1717	"	17	17		"	17	39		
Chirp	08C533	"	17	39		"	17	55		
Hypack	6041738	"	17	39		"	17	55		
Chirp	08C534	"	17	55		"	18	18		
Hypack	600-1755	"	17	55		"	18	18	EOD	
Chirp	08C535	7/12	19	12	4 Hz shot, 75m scan 4-24 KHz	7/12	19	19		2m
Hypack	608-1902	"	19	02	10ms.	"	19	19		
Hypack	6010	"	19	19		"	19	34		
Chirp	08C536	"	19	19		"	19	34		
Hypack	6012	"	19	34		"	19	59		
Chirp	08C537	"	19	34		"	19	59		
Hypack	0614	"	19	59		"	20	12		
Chirp	08C538	"	19	59		"	20	12		
Chirp	08C539	"	20	12		"	20	37		
Hypack	6016	"	20	12		"	20	37		
Chirp	08C540	"	20	37		"	20	53		
Hypack	6018	"	20	37		"	20	53		
Chirp	08C541	"	20	53		"	21	11		
Hypack	6020	"	20	53		"	21	11		
Chirp	08C542	"	21	11		"	21	17		
Hypack	6022	"	21	11		"	21	17		
Hypack	6024	"	21	17		"	21	25		
Chirp	08C543	"	21	17		"	21	25		
Hypack	6026	"	21	25		"	21	30		
Chirp	08C544	"	21	25		"	21	30		
Hypack	6028	"	21	30		"	21	40		
Chirp	08C545	"	21	30		"	21	40		
Chirp	08C546	"	21	41		"	22	14		
Hypack	602-2140	"	21	40		"	22	14		
Hypack	603-2211	"	22	14		"	22	33		
Chirp	08C547	"	22	14		"	22	33		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Hypack	6052233	7/14/08	22	33		7/12	22	50		
Chirp	08C548	"	22	33		"	22	50	CoT	
Chirp	08C549	7/13/08	15	54	4 H2Shts, 75m saw 1-16 kHz	7/13/08	16	05		3.5m
Hypack	6022A	"	15	54	#6024A	"	16	05		
Hypack	6026A	"	16	05		"	16	12		
Chirp	08C550	"	16	05		"	16	12		
Chirp	08C551	"	16	12		"	16	19		
Hypack	0628A	"	16	12		"	16	19		
Chirp	08C552	"	16	19		"	16	25		
Hypack	0629	"	16	19		"	16	28		
Chirp	08C553	"	16	25		"	16	37		
Hypack	001-1628	"	16	28		"	16	37		
Chirp	08C554	"	16	37		"	16	51		
Hypack	6017	"	16	37		"	16	54		
Chirp	08C555	"	16	51		"	17	14		
Hypack	001-1654	"	16	54		"	17	13		
Chirp	08C556	"	17	14		"	17	31		
Hypack	001-1713	"	17	13		"	17	30		
Chirp	08C557	"	17	31		"	17	45		
Hypack	001A1730	"	17	30		"	17	45		
Hypack	001-1745	"	17	45		"	18	00		
Chirp	08C558	"	17	45		"	18	00		
Hypack	001-1800	"	18	00		"	18	17		
Chirp	08C-559	"	18	00		"	18	17		
Hypack	001-1817	"	18	17		"	18	33		
Chirp	08C-560	"	18	17		"	18	34		
Hypack	001-1833	"	18	33		"	18	47		
Chirp	08C561	"	18	34		"	18	47		
Hypack	001-1847	"	18	47		"	19	05		
Chirp	08C562	"	18	47		"	19	05		
Hypack	001-1906	"	19	05		"	19	19		
Chirp	08C563	"	19	05		"	19	19		
Hypack	001-1919	"	19	19		"	19	52		6m

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C564	7/13/08	19	19	"	7/17/08	19	52		
Chirp	08C565	"	19	52	001-1938	"	20	09	(No data for line 08C565)	
Hypack	001-1952	"	19	52		"	20	09		
Hypack	001-2009	"	20	09		"	20	24		
Chirp	08C566	"	20	24		"	20	24		
Hypack	001-2021	"	20	21		"	20	21		
Chirp	08C567	"	20	36		"	20	45		
Hypack	001-2036	"	20	36		"	20	40		
Chirp	08C568	"	20	45		"	20	48		
Chirp	08C569	"	20	50		"	21	01		
Hypack	001-2058	"	20	58		"	21	01		
Hypack	038-2218	"	22	18		"	22	20		
Chirp	08C570	"	22	18		"	22	20		
Chirp	08C571	"	22	20		"	22	30		
Hypack	040-2222	"	22	22		"	22	30		
Chirp	08C572	"	22	30		"	22	36		
Hypack	041-2230	"	22	30		"	22	36		
Chirp	08C573	"	22	36		"	22	45		
Hypack	042-2236	"	22	36		"	22	45		
Chirp	08C574	"	22	45		"	22	50		
Hypack	044-2234	"	22	45		"	22	50	EOD	
Chirp	08C575	7/15/08	15	52	4-16 KHZ, 4 Hz burst, 75m 10ms	7/15/08	15	53		
Chirp	08C575A	"	15	53		"	16	00		
Hypack	004-1552	"	15	52	Dog Key Chan. 10 Sh p-1hr	"				
Chirp	08C575D	"	16	00		"	16	02		
Chirp	08C575C	"	16	02		"	16	52		
Hypack	006-1650	"	16	52		"	16	52		
Chirp	08C576	"	16	52		"	17	02	Gen died EOD	42m
Chirp	08C576	7/16/08	15	35	same as previous	7/16/08	15	01	also 08C576a	
Hypack	014-1436	"	14	36	Dog Key Chan	"	15	00		
Chirp	08C577	"	15	01		"	15	21		
Hypack	015-1500	"	15	00		"	15	20		
Hypack	018-1520	"	15	20		"	15	49		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C578	7/16/09	15	20	4-24 kHz, 10m s. Ducer 75m swath 4Hz shot	7/16/09	15	47		2m
Hypack	020-1547	"	15	47		"	16	09		
Chirp	08C579	"	15	47		"	16	09		
Hypack	022-1609	"	16	09		"	16	38		
Chirp	08C580	"	16	01		"	16	38		
Hypack	021-1638	"	16	38		"	17	02		
Chirp	08C581	"	16	38		"	17	02		
Hypack	026-1702	"	17	02	Crossing	"	17	35		
Chirp	08C582	"	17	02		"	17	35		
Hypack	001-1714	"	17	14		"	18	27		
Chirp	08C583	"	17	44	Thin Ice Chirp	"	18	27		
Hypack	001-1927	"	18	27	sparse seagrass (4-16 kHz)	"	18	55		
Chirp	08C584	"	18	27		"	18	55		
Chirp	08C585	"	19	55		"	20	30		
Hypack	028-1955	"	19	55		"	20	30		
Chirp	08C586	"	20	30		"	20	30		
Hypack	028-2029	"	20	29		"	21	39		
Chirp	08C587	"	20	30		"	21	39		
Chirp	030-205	"	20	30		"	21	39		
Hypack	37-3139	"	21	39		"	21	39		
Chirp	08C588	"	21	39		"	21	39		
Chirp	08C589	"	21	52		"	22	13		
Hypack	034-2150	"	21	50	Crossing	"	22	13		
Chirp	08C590	7/17/09	14	50	4-16 kHz, 10m s. Ducer 75m swath 4Hz shot	7/17/09	15	34		
Hypack	001-1444	"	14	44	W. Ship Island - shadow	"	15	34		
Chirp	08C591	"	15	34		"	15	54		
Hypack	001-1534	"	15	34		"	15	54		
Hypack	001-1602	"	16	02		"	16	41		
Chirp	08C592	"	16	02		"	16	41		
Chirp	08593	"	16	45		"	17	25		
Hypack	001-1647	"	16	47		"	17	25		
Chirp	012594	"	17	25		"	18	00		
Hypack	001-1725	"	17	25		"	18	00		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Hypack	001-1815	7/17/08	18	15		7/17/08	18	54		
Chirp	08C595	"	18	15	> Horns Sound Side	"	18	54		
Chirp	08C596	"	19	03		"	19	17		
Hypack	001-1903	"	19	03		"	19	17		
Hypack	001-1915	"	19	15	Chirp	"	19	54		
Chirp	08C597	"	19	17		"	19	54		
Chirp	08C598	"	19	54		"	20	11		
Hypack	001-1954	"	19	54	Slowed to 3 kts	"	20	16		
Hypack	001-2011	"	20	11		"	20	27		
Chirp	08C599	"	20	16	NSF - W. Side bay side	"	20	27		
Hypack	001-2027	"	20	27		"	20	35		
Chirp	08C600	"	20	27		"	20	35		
Hypack	001-2047	"	20	47		"	20	47		
Chirp	08C600A	"	20	47		"	20	47		
Hypack	001-2100	"	21	00		"	21	17		
Chirp	08C601	"	21	00		"	21	17		
Chirp	08C602	"	21	17		"	21	20		
Hypack	001-2117	"	21	17		"	21	34	-GPS Died	
Hypack	001-2120	"	21	34		"	21	34		
Chirp	08C603	"	21	41		"	22	00		
Hypack	001-2141	"	21	41		"	22	00		
Hypack	001-2200	"	22	00		"	22	23		
Chirp	08C604	"	22	00		"	22	23	EOD	
Chirp	08C605	7/18/08	17	54		7/18/08	17	56		
Hypack	001A1654	"	17	54	4-16KHZ, 4KHZ GCF, 15m swath	"	17	05		
Hypack	001-1706	"	17	06	SEAGRASS BAY SIDE HORN	"	17	55	port Rfm 3-8	
Chirp	08C606	"	17	56		"	18	26		
Hypack	001-1755	"	17	55	ZIG ZAGS	"	18	04		
Hypack	001-1804	"	18	04		"	18	25		
Hypack	001-1825	"	18	25		"	18	50		
Chirp	08C607	"	18	26		"	18	50		
Chirp	08C608	"	18	50		"	19	04		
Hypack	001-1850	"	18	50		"	19	04		

Activity ID: 08CTT02

## USGS CMG FACS Operation Log

Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Hypack	001-1906	7/18/08	19	06		7/18/08	19	24		
Chirp	08C609	"	19	06		"	19	24		
Chirp	08C610	"	19	24		"	19	48		
Hypack	001-1924	"	19	24		"	19	45		
Chirp	08C611	"	19	48		"	20	15		
Hypack	001-1949	"	19	49		"	19	55		
Hypack	001-1955	"	19	55		"	20	15		
Chirp	08C612	"	19	55		"	20	22		
Chirp	001-2057	"	20	57		"	21	14		
Hypack	08C613	"	21	01		"	21	14		
Hypack	001-2114	"	21	14		"	21	32		
Chirp	08C614	"	21	14		"	21	32		
Chirp	08C615	"	21	32		"	21	46		
Hypack	001-2132	"	21	32		"	21	55		
Chirp	08C616	"	21	46		"	22	00		
Hypack	001-2145	"	21	45		"	22	00		
Hypack	001-2200	"	22	00		"	22	16		
Chirp	08C617	"	22	00		"	22	13		
Chirp	08C618	"	22	13		"	22	33		
Hypack	001-2216	"	22	16		"	22	33		
Chirp	08C619	"	22	33		"	22	54		
Hypack	001-2233	"	22	33		"	22	54		
Chirp	08C620	"	22	54		"	23	22		
Hypack	001-2254	"	22	54		"	23	22		
Chirp	08C621	7/19/08	14	30	Same settings as previous -	7/19/08	14	39	EOD	
Hypack	005-1430	"	14	30		"	14	39		
Hypack	007-1439	"	14	39		"	14	49		
Chirp	08C622	"	14	39		"	14	49		
Hypack	007-1449	"	14	49		"	15	01		
Chirp	08C623	"	14	49		"	15	01		
Chirp	08C624	"	15	01		"	15	16		
Hypack	011-1501	"	15	01		"	15	14		
Hypack	011-1514	"	15	14		"				

Name: M. J. ...



Activity ID: 08CTT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C625	7/19/08	15	14		7/19/08	15	31		
Chirp	08C626	"	15	31		"	15	45		
Hypack	015-1531	"	15	31		"	15	45		
Chirp	08C627	"	15	45		"	16	00		
Hypack	017-1545	"	15	45		"	16	00		
Chirp	08C628	"	16	00		"	16	16		
Hypack	019-1600	"	16	00		"	16	05		
Chirp	08C629	"	16	45		"	16	50		
Hypack	003-1642	"	16	42		"	16	50		
Chirp	08C630	"	16	50		"	16	59		
Hypack	005-1650	"	16	50		"	16	59		
Chirp	08C631	"	16	54		"	17	08		
Hypack	007-1654	"	16	54		"	17	08		
Chirp	08C632	"	17	08		"	17	17		
Hypack	009-1708	"	17	08		"	17	17		
Chirp	08C633	"	17	17		"	17	27		
Hypack	011-1717	"	17	17		"	17	27		
Chirp	08C634	"	17	27		"	~17	40		
Hypack	013-1727	"	17	27		"	~17	40		
Chirp	08C635	"	18	13		"	18	17		
Hypack	008-1813	"	18	03		"	18	13		
Hypack	007-1812	"	18	12		"	18	17		
Chirp	08C636	"	18	17		"	18	25		
Hypack	004-1817	"	18	17		"	18	25		
Hypack	003-1825	"	18	25		"	18	34		
Chirp	08C637	"	18	25		"	18	34		
Chirp	08C638	"	18	34		"	18	41		
Hypack	002-1834	"	18	34		"	18	41		
Chirp	08C639	"	18	41		"	18	47		
Hypack	01848	"	18	41		"	19	13 (?)		
Chirp	071640	"	19	13		"	19	31		
Hypack	001-1913	"	19	13		"	19	25		
Chirp	002-1927	"	19	27		"	19	34		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C641	7/19/08	19	27		7/19/08	19	46		
Chirp	08C642	"	19	37		"	19	53		
Hypack	003-1996		19	36		"	19	46		
Chirp	08C643	"	19	47		"	20	00		
Hypack	004-1996	"	19	46		"	19	53		
Chirp	08C644	"	20	00		"	20	08		
Hypack	005-1953	"	19	53		"	20	00		
Chirp	08C645		20	08		"	20	16		
Hypack	006-2000		20	00		"	20	18		
Chirp	08C646		20	04		"	20	28		
Hypack	007-2008		20	08	-N	"	20	28		
Chirp	08C647		20	28		"	21	00		
Hypack	008-2017		20	12		"	21	00		
Chirp	08C648		20	53		"	21	08		
Hypack	006-2052		20	52		"	21	00		
Hypack	002-2100		21	00		"	21	08		
Chirp	08C649		21	08		"	21	22		
Hypack	003-2108		21	08		"	21	22		
Chirp	08C650		21	22		"	21	36		
Hypack	004-2122		21	22		"	21	36		
Chirp	08C631		21	36		"	21	47		
Hypack	005-2136		21	36		"	21	47		
Chirp	08C652		21	47		"	22	01		
Chirp	08C653		22	01		"	22	18		
Hypack	006-2148		21	48		"	22	00		
Hypack	007-2200		22	00		"	22	18		
Chirp	08C654		22	18		"	22	29		
Chirp	08C655		22	29		"	22	43		
Hypack	008-2218		22	18		"	22	30		
Hypack	009-2230		22	30		"	22	43		
Skipped	file 08C656		-	-			-	-	No File - No data	
Chirp	08C657	7/20/08	16	57	4-16 CHIRP 4Hz, 10ms, 4Hz 75m	7/20/08	17	05		2m
Hypack	011-1651		16	57		"	17	05		

Activity ID: D8CTD2					USGS CMG FACS Operation Log					
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Chirp	08C658	7/20/08	17	05	W. Ship		17	13		1 m
Hypack	009-1705	"	17	05			17	13		
Chirp	08C659	"	17	13			17	18		
Hypack	007-1713	"	17	13			17	19		
Chirp	08C660	"	17	19			17	25		
Hypack	005-1718	"	17	18			17	25		
Chirp	08C661	"	17	25			17	32		
Hypack	003-1725	"	17	25			17	32		
Chirp	08C662	"	17	32			17	40		
Hypack	001-1732	"	17	32			17	40		
Chirp	08C663	"	17	40	Xing		17	50		
Hypack	021-1740	"	17	40			17	50		
Chirp	08C664	"	17	50			17	53		
Hypack	022-1750	"	17	50			17	53		
Hypack	020-1753	"	17	53			17	58		
Chirp	08C665	"	17	53			17	58		
Hypack	019-1758	"	17	58			18	04		
Chirp	08C666	"	17	58			18	04		
Hypack	016-1804	"	18	04			18	10		
Chirp	08C667	"	18	04			18	16		
Hypack	014-1810	"	18	10			18	16		
Chirp	08C668	"	18	10			18	16		
H	012-1816	"	18	16			18	24		
C	08C669	"	18	16			18	24		
H	010-1826	"	18	26			18	36		
C	08C670	"	18	26			18	36		
C	08C671	"	18	36			18	53		
H	008-1836	"	18	36			18	53		
H	001-1405	7/22/08	14	05	SWATH Roll out line	7/22/08	14	12		
X	Roll	"	14	05	SYS Files	"	14	16		
X	Roll	"	14	16	Cal_072108_3	"	14	24		
H	002-1416	"	14	16		"	14	24		
H	003A1426	"	14	26		"	14	47		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
X	roll 3	7/27/07	14	26	SWATH roll cal line	"	14	49		
H	004-1449	"	14	49	"		14	59		
X	roll 4	"	14	49	"		14	59		
H	005-1459	"	14	59	"		15	09		
X	roll 5	"	14	59	"		15	09		
H	006-1509	"	15	09	"		15	18		
X	roll 6	"	15	09	"		15	18		
H	007-1518	"	15	18	"		15	56		
X	roll 7	"	15	18	"		15	50		
Chirp	08H641	"	15	56			16	00		
Chirp	08C672	"	15	50	same as previous - for chirp		16	00		3.5m
Hyp	001-1554	"	15	54	Some chirp interference in		16	00		
Swath	08H642	"	16	00	swath - 50m side		16	47		
Chirp	08C673	"	16	15			16	47		
Hyp	002-1615	"	16	15			16	47		
Swath	08H643	"	16	47			17	45		
Chirp	08C674	"	-	-			-	-	NO DATA - No Line	
Hyp	003A1643	"	16	43			17	15		
Chirp	08C675	"	17	15			17	41		
Swath	08H644	"	17	15			17	41		
Hyp	000-1715	"	17	15			17	41		
Chirp	08C676	"	17	54			18	11		
SW	08H645	"	17	54			18	11		
Hyp	000-1754	"	17	54			18	11		
Ch	08C677	"	18	11			18	59		
SW	08H646	"	18	11			18	59		
Hyp	011-1811	"	18	11			18	59		
Ch	08C678	"	18	59			18	59		
SW	08H647	"	18	59			19	42		
Hyp	011-1854	"	18	54			19	42		
SW	08H648	"	20	33			20	45		
Hyp	900-2033	"	20	33			20	45		
SW	08H649	"	20	45			20	57		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
HY	800-2045	7/22/08	20	45		7/24/08	20	57		
SW	08H650	"	20	57	Seagrass beds	"	21	15		
HY	600-2059	"	20	59		"	21	15		
SW	08H651	"	21	16	Sea grass	"	20	43		
HY	400-2117	"	21	17	~ 1.5m (Box - 100% depth)	"	20	43		
HY	500-2143	"	20	47		"	21	58		2m
SW	08H652	"	21	47	Sea grass	"	21	52	off for seagrass	
HY	500-2158	"	21	58	~ 1.80 m wide	"	22	21	08H650 -	
HY	600-2205	"	22	05		"	22	21		
SW	08H653	"	22	05	Seagrass	"	22	21		
SW	08H654	"	22	21		"	22	25		
HY	500-2225	"	22	25		"	22	37		
SW	08H655	"	22	37		"	22	52		
HY	500-2237	"	22	37	Seagrass	"	22	52		
SW	08H656	"	22	58	Seagrass - Trout	"	23	04		
HY	400-2300	"	23	00		"	~23	30		
SW	08H656A	"	23	00		"	~23	30		
SW	08H657	7/23/08	15	03	Cot 072108-3	7/23/08	15	20		
HY	300-1503	"	15	03		"	15	20		
HY	100-1523	"	15	23		"	15	39		
SW	08H658	"	15	23	~1.5-1.2m Ship track	"	15	39		
SW	08H659	"	15	37		"	15	47		
HY	100-1539	"	15	39		"	15	45		
SW	08H659A	"	15	45		"	15	49		
SW	08H659B	"	15	49		"	15	56		
SW	08H660	"	16	00		"	16	10		
CH	08C679	"	16	00	4-16H, 4H, 7m	"	16	10		
HY	200-1600	"	16	00		"	16	10		
SW	08H661	"	16	14	Shopped 1620-1622	"	16	20	Swamp did not	
CH	08C680	"	16	14		"	16	30		
HY	100-1616	"	16	16		"	16	30		
SW	08H661A	"	16	30		"	16	37		
SW	08H661B	"	16	37		"	16	33		

Activity ID:				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
SW	08H662	7/23/08	16	39		7/23	16	48		
SW	08H663	"	16	51	20m @ side	"	17	25	1.5m	
HY	300-1651	"	16	51		"	17	25		
SW	08H664	"	17	25	20m @ side	"	17	48		
HY	300-1725	"	17	25		"	17	48		
SW	08H665	"	17	49	"	"	18	05		
HY	400-1749	"	17	49		"	18	05		
SW	08H666	"	18	06	"	"	18	20		
HY	500-1806	"	18	06		"	18	20		
HY	600-1820	"	18	20		"	18	38		
SW	08H667	"	18	38		"	19	10		
HY	400-1838	"	18	38		"	19	10		
SW	08H668	"	18	33		"	19	10		
HY	065-1935	"	19	39		"	20	07		
SW	08C681	"	19	43	- same as previous chip	"	20	07		
SW	08H669	"	19	41	- 40m @ side	"	20	40		
SW	08H670	"	20	10		"	20	40		
CH	08C682	"	20	10		"	20	56		
HY	063-2012	"	20	12		"	21	30		
HY	200-2116	"	21	16		"	22	08		
CH	08C683	"	21	16	- same as prev	"	21	30		
SW	08H671	"	21	30	- 40m @ side (chip)	"	22	08		
SW	08H671A	"	21	30	- sea grass - 20m @ side	"	22	08		
CH	08C684	"	22	08	feature, inside Horn Tule	"	22	53	PC crashed	
SW	08H672	"	22	08		"	22	35		
HY	400-2208	"	22	08		"	22	53		
SW	08H672B	"	22	07		"			No Data, PC Lock up	
SW	08C673	7/24/08	14	32	40m SW	7/24/08	15	03		
CH	08C685	"	14	32	same as previous	"	15	03		
HY	061-1432	"	14	32		"	14	59		
SW	08H673a	"	14	59	20m swath	"	15	03		
HY	059-1503	"	14	03		"	15	03		
SW	08H674	"	15	03	shallow	"	15	58		

Activity ID: 08CCT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Ch	08C686	7/21/02	15	03		7/24/02	15	58		
	08H675	"	15	17	-also Chirp 08C687-	"	15	58		
Hypack	055-1558	"	15	58		"	16	22		
Swath	08H676	"	15	58		"	16	22		
Chirp	08C688	"	15	58		"	16	22		
Swath	08H677	"	16	22	Swath Waves	"	16	34		
Chirp	08C689	"	16	22		"	16	34		
Hypack	055-1622	"	16	22		"	16	34		
Swath	08H678	"	16	34		"	17	01		
Chirp	08C690	"	16	34		"	17	01		
Hypack	053-1634	"	16	34		"	17	01		
Hypack	051-1701	"	17	01		"	17	32		
SW	08H679	"	17	01		"	17	32		
Ch	08C691	"	17	01	feature	"	17	32		
Hy	049-1732	"	17	32		"	18	04		
SW	08H680	"	17	32		"	18	04		
Ch	08C692	"	17	32		"	18	04		
Hy	047-1804	"	18	04		"	18	32		
SW	08H681	"	18	04		"	18	32		
Ch	08C693	"	18	04		"	18	32		
Hy	045-1832	"	18	32		"	19	03		
SW	08H682	"	18	32		"	19	03		
Ch	08C694	"	18	32		"	19	03		
SW	08H683	"	19	03		"	19	34		
Ch	08C695	"	19	03		"	19	34		
Hy	043-1903	"	19	03		"	19	34		
SW	08H684	"	19	34		"	20	03		
Ch	08C696	"	19	34		"	20	03		
Hy	041-1934	"	19	34		"	20	02		
SW	08H685	"	20	03		"	20	29		
Ch	08C697	"	20	03		"	20	29		
Hy	39-2002	"	20	01		"	20	29		
SW	08H686	"	20	29	noisy data, choppy	"	21	07		

Activity ID: 08CTT02				USGS CMG FACS Operation Log						
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
Un	08C698	7/24/07	20	29		7/24/07	21	07		
Hy	037-2029		20	29		"	21	07		
SW	08H687		21	07		"	22	07		
Ch	08C699		21	07		"	22	07		
Hy	035-2107		21	07		"	22	07		
SW	08H688	"	22	07	20m @ 10	"	22	07		
Ch	08C700	"	22	07		"	22	07		
Hy	600-2216	"	22	07		"	22	07		
Ch	08C701	7/25/07	14	37	4-16 KHZ, 4 Hz SW 75m swath	7/25/07	14	50		
SW	08H689		14	37	20m @ 10	"	15	12		
Hy	012-1437	"	14	37	2	"	15	12		
Hy	010-1453	"	14	53		"	15	12		
SW	08H690	"	14	55	Sand Waves	"	15	12		
Ch	08C702	"	14	55		"	15	12		
Hy	008-1512	"	15	12		"	15	24		
SW	08H691	"	15	12		"	15	24		
Ch	08C703	"	15	12		"	15	24		
SW	08H692	"	15	24	Sand Waves	"	15	41		
Ch	08C704	"	15	24		"	15	41		
Hy	006-1524	"	15	24		"	15	41		
SW	08H693	"	15	41		"	16	19		
Ch	08C705	"	15	41		"	16	19		
Hy	004-1541	"	15	41		"	16	19		
SW	08H694	"	16	19		"	16	55		
Ch	08C706	"	16	19		"	16	55		
Hy	032-1619	"	16	19		"	16	55		
SW	08H695	"	16	55	001-1655 - 1hr piece	"	17	08		
Ch	08C707	"	16	55		"	17	08		
Ch	08C708	"	17	08		"	17	34		
SW	08H696	"	17	08		"	17	34		
Hy	001-1708	"	17	08		"	17	34		
Hy	021-1736	"	17	34	Do not know what this is	"	17	52		
Ch	08C709	"	17	34		"	17	52		



Activity ID: 08CCT02				USGS CMG FACS Operation Log							
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)	
SW	08H697	7/2/08	17	36	Sand Waves - 17:40	7/2/08	17	52			
Hy	019-1752	"	17	52		"	18	07			
SW	08H698	"	17	52		"	18	07			
Ch	08C710	"	17	52		"	18	07			
Hy	003-1801	"	18	01		"	20	00			
Ch	08C711	"	18	01		"	20	00			
SW	08H699	"	18	01	Sand Waves	"	20	00			
Hy	001-2000	"	20	00		"	21	20			
Ch	08C712	"	20	00		"	21	20			
SW	08H700	"	20	00	30m @ side	"	21	20			
Hy	200-2118	"	21	48		"	21	30			
Ch	08H701	"	21	48	30m side, - sea grass	"	21	30			
SW	08C713	"	21	48		"	22	00			
SW	08H701A	"	22	00	Sea grasses - E. Horn	"	22	30	- approx 20-20		
Hy	400-2206	"	22	06		"	~23	00			
SW	08H702	"	22	06	Port/Star wobble in down	"	~23	00			
Ch	08C714	"	22	06	head mount	"	~23	00			
Hy	001-1437	7/26/08	14	37	E. Horn -	7/26/08	7/26/08				
SW	08H703	"	14	37	30m @ side	"	~15	07			
Ch	08C715	"	14	37	4-16 kHz, 75m scan	"	~15	07			
Ch	08C716	"	15	07	inside spit C. Horn	"	~15	19			
SW	08H704	"	15	07	~50m @ side	"	~15	19			
Ch	08C717	"	15	19		"	15	26			
SW	08H705	"	15	19		"	15	26			
Hy	021-1519	"	15	19		"	15	31			
Ch	08C718	"	15	26		"	15	31			
SW	08H706	"	15	26		"	15	31			
SW	08H707	"	15	31		"	15	50			
Ch	08C719	"	15	31		"	15	50			
Hy	079-1501	"	15	31		"	15	50			
SW	08H708	"	15	40		"	15	50			
SW	08H709	"	15	50		"	16	11			
Ch	08C720	"	15	50		"	14	11			

Activity ID: 08CCT		USGS CMG FACS Operation Log						
Equipment Code	ID	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
SW	08H710	13		7/26/02	17	20		
Ch	08C721	13		"	17	20		
Hy	102-1613	13			17	20		
SW	08H711	26			17	46		
Ch	08C722	26			17	46		
Hy	003-1726	26			17	46		
Ch	08C723	46			19	06		
SW	08H712	46			19	06		
Hy	004-1746	46			19	06		
Ch	08C724	26			19	40		
SW	08H713	00			7			
Hy	1202-1800	00			18	40		
Ch	205-1800	00			18	45		
SW	08H714	00			19	15		
Ch	08C725	00			19	15		
Hy	007-1915	15			19	43		
SW	08H715	15			19	43		
Ch	08C726	15			19	43		
Hy	007-1929	29			19	44		
SW	08H716	20	30m - 10m		19	49		
Hy	007-1949	49			19	54		
Ch	08C727	44			19	54		
Hy	08H717	44			20	05		
Hy	003-1954	54			20	05		
Ch	08C728	53			20	05		
SW	08H718	54			20	07		
Ch	08C729	07			20	07		

FILL OUT THE DIAGRAM TO SHOW ACQUISITION GEOMETRY.  
 INCLUDE GPS-TO-SHOT DISTANCE, SLED-TO-SHOT DISTANCE,  
 AND STREAMER-TO-SHOT DISTANCE.

08CCT02

GPS-TO-SHOT DISTANCE \_\_\_\_\_  
 SLED-TO-SHOT DISTANCE \_\_\_\_\_  
 STREAMER-TO-SHOT DISTANCE \_\_\_\_\_



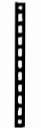



SWATH (Cartboat)

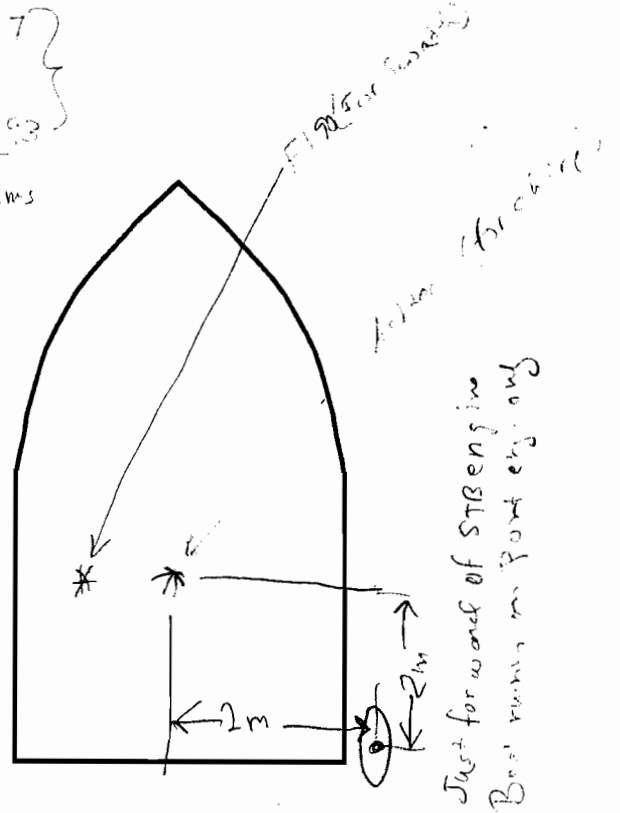
F190 Offset

$x = -3.1847$   
 $y = -.7873$   
 $z = -2.0593$

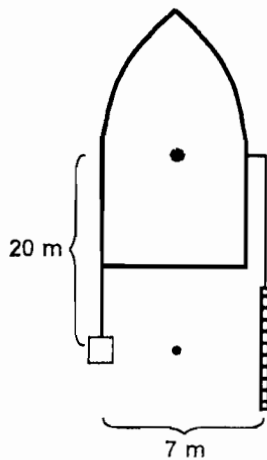
LURE: Lure arms

$x = 3.414$   
 $y = -.0256$   
 $z = .7198$

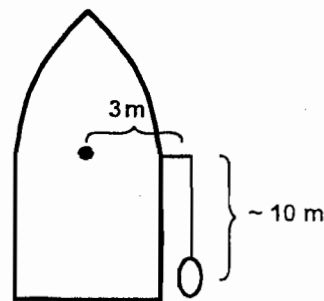
- GPS antenna 
- boomer 
- streamer 
- chirp 
- sidescan 
- shot 



BOOMER EXAMPLE



CHIRP EXAMPLE



July 08 - Catboat SWATH

FI90's Common point

FI90 offsets  
 X = -3.1847  
 Y = -.7873  
 Z = -2.0593

Swath Lever Arms  
 X = 3.414 m  
 Y = .0256  
 Z = .7198

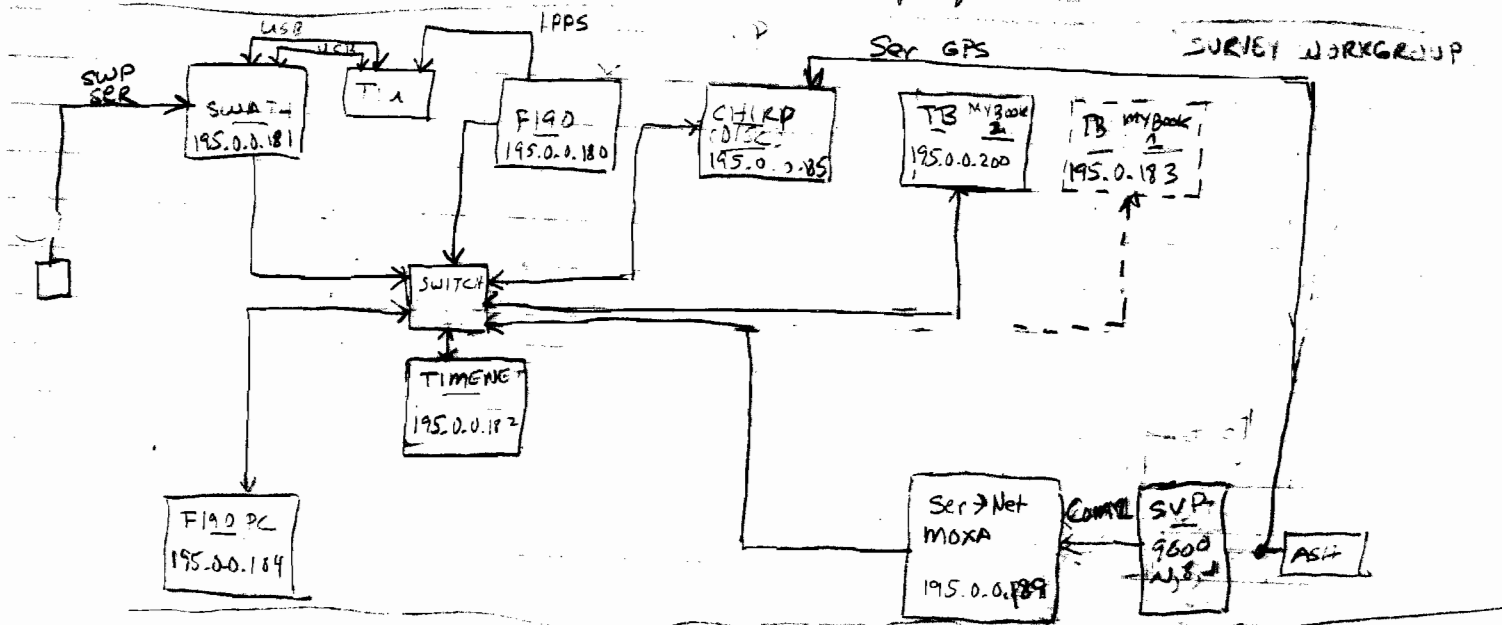
Ducer 01 (A) (Port)

Z = Height = .7198 m (short pole), 7048  
 X = Forward = -3.414 m  
 Y = Stb = -0.0544 m  
 Azi = -90  
 Elev = -30  
 Skew = 0  
 Water depth for SOS = .5 m

Ducer 02 (B) (Stb)

Z = Height = .7198 m 7048  
 X = Forward = -3.414 m  
 Z = Stb = 0.156 m  
 Azi = 90  
 Elev = -30  
 Skew = 0  
 Water depth for SOS = .5 m

remove L bracket



Z-Height = 71.98 - 1.5 = 70.48 cm  
 Z = .7048

(Ducer below hull ~10")

SXS config file: cat\_072107-3.SXS  
 using applied moxa sfp ca  
 9600, N, 8, 1 - "return/return" to start  
 "M" to send data

