

Activity ID: 09CCT03

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	09c500	jd160	18	43	DMNISTAR HP RTR Int. 50427, H=20VHZ/5ms pulse 100ms avg Ping Rate = 4 Hz JSF Format	160	19	12	DMNISTAR RTR Integ & PS (Cat 060509_a-V360_sxs)	2 m
Swath	09h500	jd160	18	43	lame side	160	19	12		
HYPACK	003-1844	jd160	18	44		160	19	12		
C	09c501	"	19	00			20	09		
Sw	09h501	"	19	20			20	09		
Hy	004-1920	"	19	28			20	09		
Hy	09c502	"	20	01			~20	55		
Sw	09h502	"	20	01			~20	55		
Hy	004-2019	"	20	11	sea grass 23:00		~20	55		
C	09c503	"	20	56			21	00		
Sw	09h503	"	20	5			21	00		
C	09c503a	"	21	02			22	07		
Sw	09h503a	"	21	02			22	07		
Hy	004-2110	"	21	02			22	07		
Ch	09c504	"	22	07			22	33	Chirp cable caught in prop - discharged	
Sw	09h504	"	22	07			22	33		
Hy	004-2210	"	22	07			22	33		
Sw	R0112x	jd160	16	15		16	16	20	-Timnet not working -	
H	R0112x	"	16	22			16	26	Attended using PC clock	
"	R0113x	"	16	28			16	32	20 m @ side @ noise	
"	R0114x	"	16	41			16	44		
H	R0115x	"	16	44			16	52		
"	R0116x	"	16	54			16	56		
H	R0117x	"	17	02			17	06		
Ch	09c505	"	18	06	H=20KHZ/5ms pulse / 100ms / Ping 4Hz		19	16	Chirp Cable Repaired	
Sw	09h505	"	18	06	10m @ side / DFI		19	16	Timnet syncd (every 720 min)	
Hy	603-1804	"	18	06	sea grass		19	16	(Cat 060509_a-V360b_sxs)	
Ch	09c506	"	19	19			20	13		
Sw	09h506	"	19	19			20	13		
Hy	603-1917	"	19	19			20	13		
Ch	09c507	"	20	18						

Activity ID: 09CCT 03

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	09h507	16	18	20		16	21	16		
ch	003-2119	16	18	20		"	21	16		
ch	09c508	"	21	16		"	~21	45		
sw	09h508	"	21	16		"	~21	45		
hy	003-2115	"	21	16		"	~21	45		
ch	09c508a	"	22	15	structure	"	~22	16		
sw	09h509	"	22	15		"	~23	15		
hy	001-2215	"	22	15		"	~23	15		
ch	09c510	16	15	51	4-20KHz, 5ms, 4Hz shot, 100m save	16	16	48	16:55	
sw	09h510	"	15	51	10m swath	"	16	48	16:17 - structure/infill ch.	
hy	001-1550	"	15	50		"	16	46	Cat 060509-a-v360b.sxs	
ch	09c511	"	16	50		"	17	30		
sw	09h511	"	16	50		"	17	30		
hy	001-1649	"	16	49		"	17	30		
ch	09c512	"	17	45		"	~18	30		
sw	09h512	"	17	45		"	~18	30		
hy	001-1743	"	17	43		"	~18	30		
ch	09c513	"	19	54		"	20	07		
sw	09h513	"	19	54		"	20	07		
hy	001-1953	"	19	53		"	20	07		
ch	09h514	"	20	18		"	21	22		
sw	09h514	"	20	18		"	21	22		
hy	001-2017	"	20	17		"	21	22		
ch	09c515	"	21	22		"	~21	30		
sw	09h515	"	21	22		"	~21	30		
hy	001-2122	"	21	22		"	~21	30		
ch	09h516	"	~21	30	} bad current/bnd data	"	~21	45		
sw	09h516	"	~21	30		"	~21	45		
ch	09c517	"	~21	45		"	~21	50		
sw	09h517	"	~21	45		"	~21	50		
ch	09c518	"	22	00		"	22	41		
sw	09h518	"	22	00		"	22	41		
hy	001-2158	"	22	00		"	22	41		

1.00m
2-25

mike [unclear] [unclear]

Activity ID: 09ce + 03				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	09c519	16	17	06	4-20KHz, 5m/s, 4Hz shot, 100m range	16	17	36	Using Dredcover V351 - rec-11	3m
sw	09h519	"	17	06	-white caps, 1-2 ft seas	"	17	36	SEGY, Tom FLOAT, ASCII/JSF	
hy	005-1704	"	17	06		"	17	36		
ch	09c520	"	17	37	Shot 18:16	"	18	40		
sw	09h520	"	17	37		"	18	40		
hy	00L1726	"	17	36		"	18	40		
ch	09c521	"	18	46		"	19	49		
sw	09h521	"	18	46	Sample was collected 19:09	"	19	49		
hy	001-1844	"	18	44		"	19	49		
ch	09c522	"	19	51		"	20	20		
sw	09h522	"	19	51		"	20	20		2m
hy	00L1549	"	19	51		"	20	20		
ch	09c523	"	20	21		"	21	00		
sw	09h523	"	20	21		"	21	00		
hy	001-2020	"	20	20		"	21	00		
ch	09c524	"	21	00		"	21	20		
sw	09h524	"	21	00		"	21	20		
hy	001-2058	"	20	58		"	21	20		
ch	09c525	"	21	20		"	21	36		
sw	09h525	"	21	20		"	21	36		
hy	001-2119	"	21	20		"	21	36		
ch	09c526	"	21	33		"	21	51		
sw	09h526	"	21	33		"	21	51		
hy	001-2134	"	21	34		"	21	57		
ch	09c527	"	21	51		"	22	03		
sw	09h527	"	21	51		"	22	03		
hy	001-2150	"	21	51		"	22	03		
ch	09c528	"	22	03		"	22	18		
sw	09h528	"	22	03		"	22	18		
hy	001-2203	"	22	03		"	22	18		
ch	09c529	"	22	18		"	22	30		
sw	09h529	"	22	18		"	22	30		
hy	001-2217	"	22	17		"	22	30		

Activity ID: 09cct03				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	09c530	16 3	22	30		16 3	22	46		
sw	09h530	"	22	30		"	22	46		
hy	001-2230	"	22	30		"	22	46		
ch	09c531	"	22	46		"	22	58		
sw	09h531	"	22	46		"	22	58		
ny	001-2241	"	22	46		"	22	58		
ch	09c532	16 4	16	23	4-20 kHz, 5ms pulse / 4 Hz shot 122m. start	16 4	16	36		
sw	09h532	"	16	23	20m (side (190 cable cog. 20m))	"	16	34	cat 061309-061360.sxs	com
hy	001-1622	"	16	22		"	16	36	whiteraps (12')	
ch	09c533	"	16	38		"	16	47		
sw	09h533	"	16	38		"	16	47		
hy	001-1636	"	16	38		"	16	48		
ch	09c534	"	16	47		"	17	05		
sw	09h534	"	16	47		"	17	05		
ny	001-1648	"	16	48		"	17	05		
ch	09c535	"	17	09		"	17	11		
sw	09h535	"	17	09		"	17	14		
hy	002-1707	"	17	07		"	17	14		
ch	09c536	"	17	14		"	17	16		
sw	09h536	"	17	14		"	17	16		
ny	003-1713	"	17	13		"	17	16		
ch	09c537a	"	17	21		"	17	26		
sw	09h537a	"	17	21		"	17	26		
hy	004-1717	"	17	21		"	17	26		
ch	09c538	"	17	29		"	17	54		
sw	09h538	"	17	29		"	17	54		
hy	005-1729	"	17	29		"	17	54		
ch	09c539	"	17	53		"	17	57		
sw	09h539	"	17	53		"	17	57		
hy	001-1754	"	17	54		"	17	57		
ch	09c540	"	17	58		"	18	11		
sw	09h540	"	17	58		"	18	11		
hy	002-1757	"	17	57		"	18	11		

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Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
sh	09c541	16 17	18	17		16 17	18	20		3m
sw	09b541	"	18	17		"	18	20		
hy	003-1815	"	18	17		"	18	20		
ch	09c542	"	18	26		"	18	34		
sw	09b542	"	18	26		"	18	34		
hy	004-1825	"	18	25		"	18	33		
ch	09a543	"	18	34		"	18	38		
sw	09b543	"	18	34		"	18	38		
hy	005-1833	"	18	33		"	18	38		
ch	09c544	"	18	38		"	18	48		
sw	09b544	"	18	38		"	18	48		
hy	001-1833	"	18	38		"	18	48		
ch	09c545	"	18	50		"	18	51		
sw	09b545	"	18	50		"	18	51		
hy	002-1847	"	18	47		"	18	51		
ch	09c546	"	18	52		"	18	58		
sw	09b546	"	18	52		"	18	58		
hy	003-1852	"	18	52		"	18	58		
ch	09c547	"	20	49		"	21	06		
sw	09b547	"	20	49	Ridge - jst	"	21	06	sen died	
hy	002-2047	"	20	47		"	21	06		
ch	09c548	"	21	06	jst	"	21	10		
sw	09b548	"	21	06		"	21	10		
hy	001-2105	"	21	05		"	21	10	?	2m
ch	09c549	"	21	12	jst	"	22	13		
sw	09b549	"	21	12		"	22	13		
hy	001-2110	"	21	10		"	22	13		
ch	09c550	"	22	14	jst		22	21		
sw	09b550	"	22	14			22	21		
hy	001-2142	"	22	12			22	21		
ch	09a551	"	22	21	jst		22	13		
sw	09b551	"	—	—	No Data - No Line		22	—		
hy	001-2221	"	22	21			22	23		

Activity ID: 09cc+03					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	09h552	16	22	26	jst	16	~22	28		
sw	09h552	"	22	26		"	~22	28		
hy	003-2225	"	22	25		"	~22	28		
ch	09c553	16	15	10	4-20 kHz, 5m swath / 4 Hz/100m	16	15	28	JSF + SEG Y (IBM float, ASCII)	7m
sw	09h553	"	15	10	30m swath	"	15	28	Cat 061609_Cal_v360.sxs	
hy	001-1589	"	15	09		"	15	28	(Roll cal SXS file)	
ch	09c554	"	15	30		"	15	30		
sw	09h554	"	15	30		"	15	30	N. 2! seas - Chopping	2m
hy	001-1529	"	15	29		"	15	30		
ch	09c555	"	15	42		"	15	50		
sw	09h555	"	~15	42		"	~15	50		
hy	001-1542	"	~15	42		"	~15	50		
ch	09c556	"	~15	50		"	~15	55		
sw	09h556	"	~15	50		"	~15	55		
ch	09c557	"	~15	55		"	~16	01		
sw	09h557	"	~15	55		"	~16	01		
ch	09c558	"	~16	01		"	~16	05		
sw	09h558	"	~16	01		"	~16	05		
hy	001-1601	"	~16	00		"	~16	05		
ch	09c558	"	~16	00		"	~16	10		
sw	09h558	"	~16	05		"	~16	10		
ch	09c559	"	16	53		"	17	20		
sw	09h559	"	16	53		"	17	20		5m
hy	001-1652	"	16	52		"	17	20		
ch	09c560	"	18	21		"	19	26		
sw	09h560	"	18	21		"	19	26		
hy	002-1921	"	18	21		"	18	24		
ch	09c561	"	18	27		"	18	29		
sw	09h561	"	18	27		"	19	39		
hy	001-1827	"	18	27		"	19	39		
ch	09c562	"	18	39		"	18	52		
sw	09h562	"	18	39		"	19	52		
hy	001-1839	"	18	39		"	18	52		

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Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
ch	09c563	16	18	52		16	19	08		
sw	09h563	"	18	52		"	19	08		
hy	001-1852	"	18	52		"	19	08		
ch	09c564	"	19	08		"	19	20		
ny	09h564	"	19	08		"	19	20		
sh	09c565	"	19	20		"	19	36		
sw	09h565	"	19	20		"	19	36		
hy	001-1920	"	19	20		"	19	36		
ch	09c566		19	36			19	47		
l	09h566		19	36			19	47		
s	001-1936		19	36			19	47		
ch	09c567		19	47			20	02		
sh	09h567		19	47			20	02		
ny	001-1947		19	47			20	02		
ch	09c568		20	02			20	13		
sw	09h568		20	02			20	13		
hy	001-2002		20	02			20	13		
ch	09c569		20	13			20	29		
sw	09h569		20	13			20	29		
hy	001-2013		20	13			20	29		
ch	09c570		20	29	} Bad data - no quit 5 generator quit		20	50		
sw	09h570		20	29			20	50		
ch	09c570a		20	43			21	15		
sw	09h570a		20	43			21	15		
ny	001-2043		20	43			21	15		
ch	09c571		21	26			21	33		
sw	09h571		21	26			21	33		
ny	001-2125		21	25			21	33		
ch	09c572		21	39			21	46		
sw	09h572		21	39			21	46		
hy	001-2139		21	39			21	46		
ch	09c573		21	47			22	05		
sw	09h573		21	47			22	05		

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Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
hy	001A2147	167	21	47		167	22	05		3
ch	09c574	"	22	05		"	21	11		
sw	09h574	"	22	05		"	21	11		
hy	002-2205	"	22	05		"	21	11		
ch	09c575	"	22	13		"	22	17		
sw	09h575	"	22	13		"	22	17		
hy	002-2212	"	22	12		"	22	17		
ch	09c576	"	22	18		"	22	23		
sw	09h576	"	22	18		"	22	23		
hy	003-2218	"	22	18		"	22	23		
ch	09c577	"	22	23	22:26 - Recharge	"	22	28		
sw	09h577	"	22	23		"	22	28		
hy	004-2223	"	22	23		"	22	28		
ch	09c578	"	22	29		"	22	41		
sw	09h578	"	22	29		"	22	41		
hy	005-2228	"	22	28		"	22	41		
ch	09c579	"	22	41		"	22	50		
sw	09h579	"	22	41		"	22	50		
hy	001-2241	"	22	41		"	22	50		
ch	09c580	"	22	50	Shallow - chirp on	"	22	58		
sw	09h580	"	22	50	bottom 22:54	"	22	58		
hy	001-2249	"	22	49		"	22	50		
ch	09c581	Jul 16	15	14	4-20kHz, 5ms/4Hz shot/100m avg	168	16	19		
sw	09h581	"	15	14	30m depth - 23	"	16	19	sea grass - 15:28 (visual)	
hy	601-1513	"	15	13		"	16	19	sea grass - 15:38 (" ")	
ch	09c582	"	16	18		"	16	33		
sw	09h582	"	16	18		"	16	33		
hy	001-1618	"	16	18		"	16	33		
ch	09c583	"	16	33		"	16	48		
sw	09h583	"	16	33		"	16	48		
hy	001-1633	"	16	33		"	16	48		
ch	09c584	"	16	49	17:00 Infill chan.	"	17	00		
sw	09h584	"	16	49		"	17	00		

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Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
hy	001A1649	168	16	49		169	17	00		
ch	09c585	"	17	00		"	17	50		
sw	09c585	"	17	00		"	17	50		
hy	0011700	"	17	00		"	17	56		
ch	09c586	"	17	51		"	17	56		
sw	09h586	"	17	51		"	17	56		
ch	09c587	"	18	06		"	19	12		
sw	09h587	"	18	06		"	19	12		
hy	001-1806	"	18	06		"	19	12		
ch	09c588	"	19	12		"	20	12		
sw	09h588	"	19	12		"	20	12		
hy	002-1911	"	19	12		"	20	12		
ch	09c589	"	20	12		"	21	46		
sw	09h589	"	20	12		"	21	46		
hy	001-2011	"	20	12		"	21	46		
ch	09c590	"	21	46		"	21	56		
sw	09h590	"	21	46		"	21	56		
hy	001-2145	"	21	46		"	21	56		
ch	09c591	"	21	56		"	22	40		
sw	09h591	"	21	56		"	22	40		
hy	002-2156	"	21	56		"	22	40		
ch	09c592	169	17	13	4-20kHz, 5ms/100m, 4Hz	169	17	25		
sw	09h592	"	17	13	30m swath	"	17	25		
hy	001-1713	"	17	13		"	17	25		
ch	09c593	"	17	25		"	17	47		
sw	09h593	"	17	25		"	17	47		
hy	001-1726	"	17	25		"	17	47		
ch	09c594	"	17	47		"	17	59		
sw	09h594	"	17	47		"	17	59		
hy	001-1747	"	17	47		"	17	59		
ch	09c595	"	17	59		"	19	13		
sw	09h595	"	17	59		"	19	13		
hy	001-1759	"	17	59		"	19	13		

Activity ID: 09cct83					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	09c596	169	18	14	- 1	170	18	26		
sw	09h596	"	18	14		"	18	26		
hy	001-1814	"	18	14		"	18	26		
ch	09c597	"	18	25		"	~18	35		
sw	09h597	"	18	25		"	~18	35		
hy	001-1925	"	18	25		"	~18	35		
ch	09c598	"	18	40		"	~18	50		
sw	09h598	"	18	40		"	~18	50		
hy	001-1840	"	18	40		"	~18	50		
ch	09c599	"	19	11		"	~20	11		
sw	09h599	"	19	11	"	~20	11			
hy	003-1911	"	19	11	"	~20	11			
					Clamp cable intermittent recieve					
ch	09c600	170	18	35	4-20kHz, 5m/175m SECY, 10m FT act 402pm	170	19	25	Using short (20m) spare cable	2m
sw	09h600	"	18	35	36m swath	"	19	25		
hy	001-1834	"	18	34		"	19	25		
ch	09c601	"	19	30	175m depth	"	19	31		
sw	09h601	"	19	30	30m swath	"	18	34		
ch	001-1930	"	19	30		"	18	34		
ch	09c602	"	19	36		"	20	00		
sw	09h602	"	19	36		"	20	00		
hy	001A1935	"	19	35		"	20	00		
ch	09c603	"	20	04		"	20	43		
sw	09h603	"	20	04		"	20	43		
hy	001-2003	"	20	03		"	20	43		
ch	09c604	"	20	58	occupy sand waves	"	21	10		
sw	09h604	"	20	58	"	"	21	10		
hy	001A2058	"	20	58		"	21	10		
ch	09c605	"	21	13		"	21	34		
sw	09h605	"	21	13		"	21	34		
hy	001-2113	"	21	13		"	21	34		
ch	09c606	"	21	35		"	21	35		

Activity ID: 08 OCT 03

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	09h606	170	21	55		170	21	55		
ny	001A2134	"	21	54		"	21	55		
ch	09c607	"	21	55		"	22	54		
su	09h607	"	21	55		"	22	54		
hy	001-2155	"	21	55		"	22	54		
ch	09c608	"	22	58		"	23	10		
sw	09h608	"	22	58		"	23	10		
hy	001-2258	"	22	58		"	23	10		
ch	09c609	"	23	10		"	23	25		
sw	09h609	"	23	10		"	23	25		
hy	601-2310	"	23	10		"	23	25		
ch	09c610	"	23	25		"	23	40		
sw	09h610	"	23	25		"	23	40		
ny	001-2325	"	23	25		"	23	40		
ch	09c611	"	23	40		"	23	54		
cs	09h611	"	23	40		"	23	54		
hy	001-2340	"	23	40		"	23	54		
ch	09c612	"	23	54		"	00	04		
sw	09h612	"	23	54		"	00	04		
hy	001-2354	"	23	54		"	00	04		
ch	09c613	171	16	13	4-20 kHz 5m 4Hz 75m 5	171	16	18		
sw	09h613	"	16	13	30m swath	"	16	18		
ny	003-1613	"	16	13		"	16	18		
ch	09c614	"	16	28	shoot 16:28	"	16	51		
sw	09h615	"	16	28		"	16	51		
hy	002-1622	"	16	22		"	16	51		
ch	09c615	"	16	52	shoot 16:55	"	17	32		
sw	09h615	"	16	52		"	17	32		
ny	001A1652	"	16	52		"	17	32		
ch	09c616	"	17	33		"	17	47		
sw	09h616	"	17	33		"	17	47		
ny	002-1732	"	17	32		"	17	47		
sw	09c617	"	17	51		"	17	59		

Activity ID: 09cct03				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)
SD	09h617	17	17	57		17	17	57		
HY	002-1751	"	17	57		"	17	57		
SW	09c618	"	17	58		"	18	03		
HY	09h618	"	17	58		"	18	03		
CH	09c619	"	18	03		"	18	15		
SW	09h619	"	18	03		"	18	15		
HY	003-1803	"	18	03	Ashten died	"	18	15		
CH	09c620	"	18	21		"	19	26		
SW	09h620	"	18	21		"	19	26		
HY	001-1821	"	18	21		"	19	26		
CH	09c621	"	19	26		"	18	36		
SW	09h621	"	18	26		"	18	36		
HY	002-1825	"	18	26		"	18	36		
CH	09c622	"	18	36		"	18	47		
SW	09h622	"	18	36		"	18	47		
HY	003-1836	"	18	36		"	18	47		
CH	09h-623	"	18	47	18:53 - out	"	~19	00		
SW	09h-623	"	18	47		"	~19	00		
HY	003-1847	"	18	47		"	~19	00		
CH	09c-624	"	21	14		"	21	30		
SW	09h-624	"	21	14		"	21	30		
HY	001-2114	"	21	14		"	21	30		
CH	09c625	"	21	30		"	21	45		
SW	09h625	"	21	30		"	21	45		
HY	001-2130	"	21	30		"	21	45		
SW	09c624	"	21	45		"	22	06		
CH	09h626	"	21	45		"	22	06		
HY	001A2145	"	21	45		"	22	06		
CH	09c627				End of 09cct03					
HY	09h627				Begin 09cct03A - same physical config as 09cct03					
					↓					

Activity ID: 09cc+03A				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)
	09c627	Island Survey			Kate Rise UNO - Accident at Mid Survey				09cc+03A	
ch	09c627	17	15	58	H-20 kHz, 5ms / 4 Hz shot 75m	17	17	16		
sw	09h627	"	15	58	50m swath ps 10	"	17	16		
hy	200-1558	"	15	58		"	17	16		
ch	09c628	"	17	23		"	18	25		
sw	09h628	"	17	23		"	18	25		
hy	00L-1723	"	17	23		"	18	25		
ch	09c629	"	18	32		"	18	53		
sw	09h629	"	18	32		"	18	53		
hy	160-1832	"	18	32		"	18	53		
ch	09c630	"	18	54		"	19	00		
sw	09h630	"	18	54		"	19	00		
hy	003-1854	"	18	54	- background	"	19	00		
ch	09c631	"	19	18		"	20	10		
sw	09h631	"	19	18	30m swath	"	20	10		
hy	004E1918	"	19	18		"	20	10		
ch	09c632	"	20	13		"	20	30		
sw	09h632	"	20	13		"	20	30		
hy	0062013	"	20	13		"	20	30		
ch	09c633	"	20	30		"	20	40		
sw	09h633	"	20	30		"	20	40		
hy	006-2030	"	20	30		"	20	40		
sw	09c634	"	20	40		"	20	57		
sw	09h634	"	20	40		"	20	57		
sw	09c635	"	20	57		"	21	00		
sw	09h635	"	20	58		"	21	00		
hy	006-2057	"	20	58		"	21	00		
sw	10920536	"	21	02		"	21	30		
sw	09h636	"	21	02		"	21	30		
hy	004-2102	"	21	02		"	21	30		
ch	09c637	"	21	33		"	22	17		
sw	09h637	"	21	33		"	22	17		
hy	003-2133	"	21	33		"	22	17		

Activity ID: 09cct03A				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	09c638	172	22	20		172	22	24		
sw	09h638	"	22	20		"	22	24		
hy	113-2219	"	22	20		"	22	24		
ch	09c639	"	22	23		"	22	19		
sw	09h639	"	22	23		"	22	15		
hy	002-2223	"	22	23		"	22	19		
ch	09c640	"	23	23		"	~ 23	50		
sw	09h640	"	23	23		"	~ 23	50		
hy	003-2323	"	23	23		"	~ 23	50		
		173								
ch	09c641	173	15	20	4-20 kHz Sms/75m 4 Hz, 408 pps 1st/5th	173	15	46	Marsh Inlet/Munkay	
sw	09h641	"	15	20	20m swath	"	15	46		
hy	004-1518	"	15	18		"	15	45		
ch	09c642	"	15	46	16:05 pm	"	16	30		
sw	09h642	"	15	45	30m swath 25%	"	16	30		
hy	016-1546	"	15	46		"	15	50		
sw	09h642a	"	~ 15	50	sea grass 16:00 →	"	16	30		
ch	09c643	"	16	30	20% pm	"	16	54		
sw	09h643	"	16	30		"	16	54		
hy	021-1629	"	16	29		"	16	54		
ch	09c644	"	16	54	SEMI waves 16:54 40% pm	"	17	01		
sw	09h644	"	16	54	20m swath	"	17	01		
hy	110-1654	"	16	54		"	17	01		
ch	09c645	"	17	01		"	17	26		
sw	09h645	"	17	01	30m swath SEMI waves	"	17	26		
hy	019-1701	"	17	01		"	17	26		
ch	09c646	"	17	26		"	17	35		
sw	09h646	"	17	26		"	17	35		
hy	017-1726	"	17	26		"	17	35		
ch	09c647	"	17	35		"	17	53		
sw	09h647	"	17	35		"	17	53		
hy	017-1735	"	17	35		"	17	53		
ch	09c648	"	17	53		"	18	030		

Activity ID: 09CCF03A

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	09h648	173	17	58		173	18	00		
hy	018-1758	"	17	58		"	18	00		
ch	09c649	"	18	06		"	18	27		
sw	09h649	"	19	06		"	18	27		
hy	015-1806	"	18	06		"	19	27		
ch	09c650	"	18	27		"	19	35		
sw	09h650	"	18	27		"	19	35		
hy	013-1827	"	18	27		"	18	35		
ch	09c651	"	18	35	} generator died	"	18	55		
sw	09h651	"	18	35		"	18	55		
hy	013-1835	"	18	35		"	19	53		
ch	09c652	"	19	15		"	19	30		
sw	09h652	"	19	15		"	19	30		
hy	011-1914	"	19	14		"	19	30		
ch	09c653	"	19	28		"	19	38		
sw	09h653	"	19	28		"	19	38		
hy	012-1926	"	19	26		"	19	38		
ch	09c654	"	19	38		"	19	53		
sw	09h654	"	19	38		"	19	53		
hy	009-1938	"	19	38		"	19	53		
ch	09c655	"	19	53		"	20	00		
sw	09h655	"	19	53		"	20	00		
hy	008-1953	"	19	53		"	20	00		
ch	09c656	"	20	00		"	21	17		
sw	09h656	"	20	00		"	21	17		
hy	057-2000	"	20	00		"	21	17		
sw	09c657	"	20	15	No chirp file	"	20	26		
hy	009-2015	"	20	15		"	20	26		
ch	09c658	"	20	26	} circle file	"	20	34		
sw	09h658	"	20	26		"	20	34		
hy	117-2025	"	20	25		"	21	03		
ch	09c659	"	20	37		"	21	03		

Activity ID: 09cct03A

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	09h659	173	20	37		173	21	03		
ch	09c659	"	21	03		"	~21	10		
sw	09h660	"	21	03		"	~21	10		
ch	09c660	"	21	10	2 creek lines for autopilot	"	~21	50		
sw	09h660	"	~21	10	= 0	"	~21	50		
ch	09c661	"	21	50	Starting 22:30	"	22	50		
sw	09h661	"	21	50	20 m swath 22:30	"	22	50		
hy	119-2150	"	21	50		"	23	00		
ch	09c662	"	23	00		"	23	06		
sw	09h662	"	23	00		"	23	06		
hy	110-2300	"	23	00		"	23	06		
ch	09c663	"	23	06		"	~23	30		
sw	09h663	"	23	06		"	~23	30		
hy	111-2306	"	23	06		"	~23	30		
ch	09c664	174	15	24	4-20 kHz, 5ms/15m, 4 Hz 35f	174	15	52		
sw	09h664	"	15	24	30m sw	"	16	52		
hy	004-1534	"	15	24		"	16	52		
ch	09c666	"	15	51		"	16	10		
sw	09h666	"	15	51	20 m swath / pos. xa grass	"	16	10		
hy	202-1551	"	15	51		"	16	10		
ch	09c666	"	16	10		"	16	55		
sw	09h666	"	16	10	sea grass?	"	16	55		
hy	202-1610	"	16	10		"	16	55		
ch	09c667	"	17	01	sea grass?	"	17	13		
sw	09h667	"	17	01		"	17	13		
hy	204-1701	"	17	01		"	17	13		
ch	09c668	"	17	20		"	17	31		
sw	09h668	"	17	20		"	17	31		
hy	021-1720	"	17	20		"	17	31		
ch	09c669	"	17	31		"	17	39		
sw	09h669	"	17	31		"	17	39		
hy	114-1731	"	17	31		"	17	39		
ch	09c670	"	17	39		"	17	50		

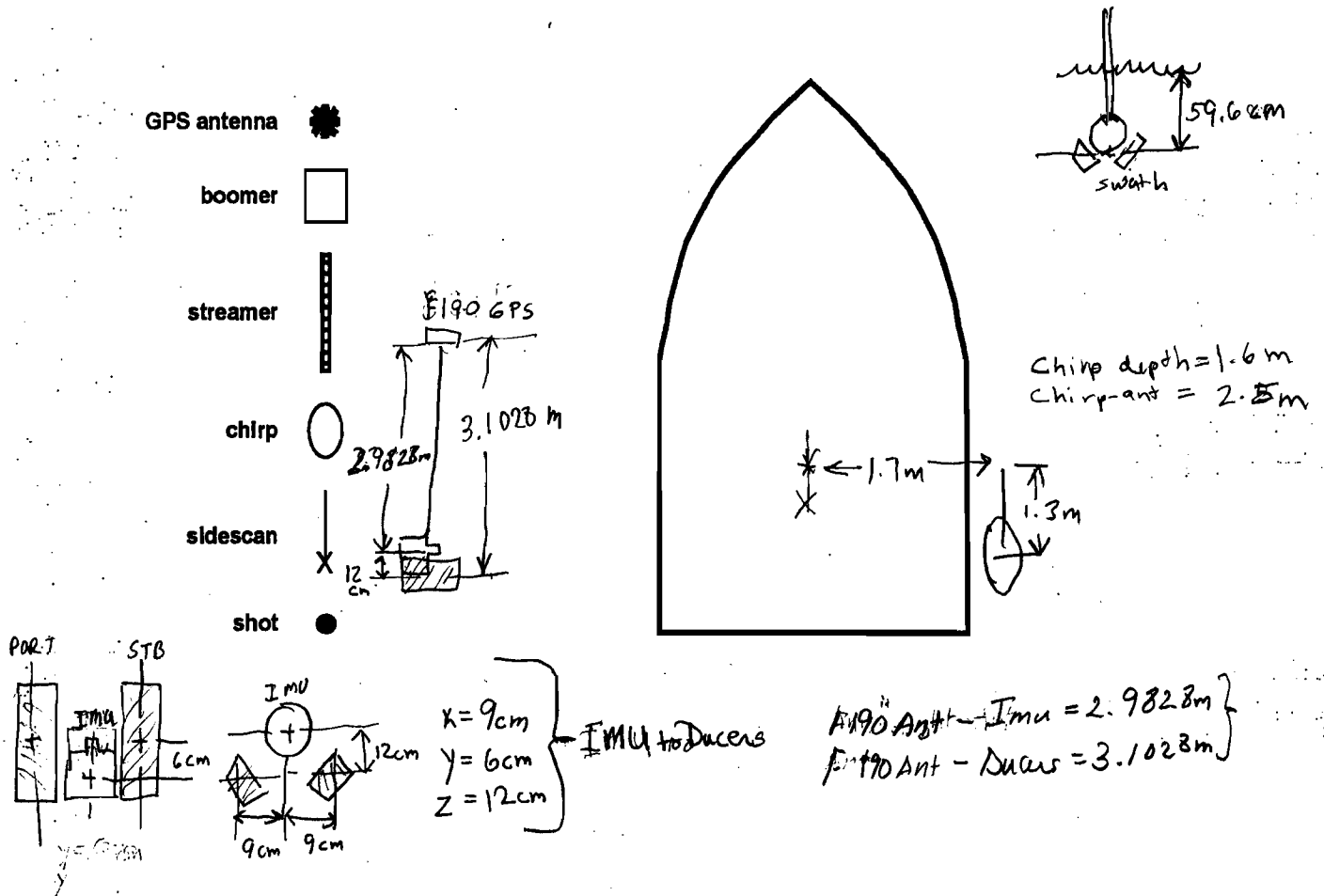
-stopped for sample

Activity ID: 09cct 03A				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	09h670	17	17	39		17	17	52		
hy	019-1739	"	17	39		"	17	52		
ch	09c671	"	17	52		"	18	01		
sw	09h671	"	17	52		"	18	01		
hy	05-1752	17	17	52		"	18	01		
ch	09c672	"	18	02		"	18	20		
sw	09h672	"	18	02		"	18	20		
hy	017-1802	"	18	02		"	18	20		
ch	09c673	"	18	20		"	18	29		
sw	09h673	"	18	20		"	18	29		
hy	013-1820	"	18	20		"	18	29		
cu	09c674	"	18	29		"	18	44		
sw	09h674	"	18	29		"	18	44		
hy	015-1829	"	18	29		"	18	44		
cu	09c675	"	18	44		"	18	53		
sw	09h675	"	18	44	sea guns?	"	18	53		
hy	016-1844	"	18	44		"	18	53		
ch	09c676	"	18	53		"	19	11		
sw	09h676	"	18	53		"	19	11		
hy	013-1853	"	18	53		"	19	11		
ch	09c677	"	18	12		"	19	21		
sw	09h677	"	18	12		"	19	21		
hy	12-1912	"	18	12		"	19	21		
ch	09c678	"	19	21		"	19	30		
sw	09h678	"	19	21		"	19	30		
hy	011-1921	"	19	21		"	19	30		
ch	09c679	"	19	30		"	19	46		
sw	09h679	"	19	30		"	19	46		
hy	009-1946	"	19	30		"	19	46		
ch	09c680	"	19	46		"	20	04		
sw	09h680	"	19	46		"	20	04		
hy	009-1946	"	19	46		"	20	04		

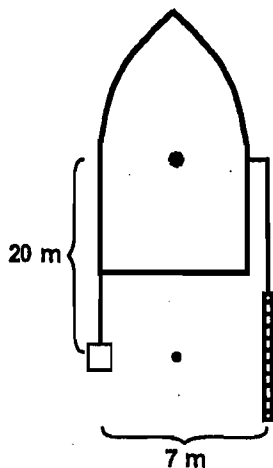
Activity ID: 09cc703A					USGS CMG FACS Operation Log					
Equipment Code	ID	Start Day	Start Hour	Start Min	Start Comment	End Day	End Hour	End Min	End Comment	Depth (meters)
ch	09c681	174	20	07		174	20	05		
sw	09h681	"	20	07		"	20	05		
hy	112-2007	"	20	07		"	20	05		
ch	09c682	"	20	15		"	20	29		
sw	09h682	"	20	15		"	20	29		
hy	D07-2015	"	20	15		"	20	29		
ch	09c683	"	20	29		"	21	15		
sw	09h683	"	20	29		"	21	15		
hy	114-2029	"	20	29		"	21	15		
ch	09c684	"	21	16		"	21	24		
sw	09h684	"	21	16		"	21	24		
hy	115-2116	"	21	16		"	21	24		
ch	09c685	"	21	24		"	22	03		
sw	09h685	"	21	24		"	22	03		
hy	113-2124	"	21	24		"	22	03		
ch	09c686	"	22	03		"	22	16		
sw	09h686	"	22	03		"	22	16		
hy	114-2203	"	22	03		"	22	16		
ch	09c687	"	22	16		"	22	29		
sw	09h687	"	22	16		"	22	29		
hy	112-2216	"	22	16		"	22	29		
ch	09c688	"	22	29		"	22	53		
sw	09h688	"	22	29		"	22	53		
hy	112-2229	"	22	29		"	22	53		
ch	09c689	"	22	53		"	22	59		
sw	09h689	"	22	53		"	22	59		
hy	113-2253	"	22	53		"	22	59		
ch	09c690	"	22	59		"	23	06		
sw	09h690	"	22	59		"	23	06		
hy	114-2259	"	22	59		"	23	06		
ch	09c691	"	23	06		"	23	16		
sw	09h691	"	23	06		"	23	16		
hy	115-2306	"	23	06		"	23	16		

09cct 03

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



BOOMER EXAMPLE



CHIRP EXAMPLE

