

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)
SWATH	08CCT01	196	14	48	gilbert_071308		14	52	PATCH TEST LINE 1	7.2
F190		196	14	48						
Hypack		196	14	48	001-1448.196					
Hypack			14	54	002-1454.196		14	58	heading south	8.25
Hypack			15	00	003-1500.196		15	04	heading north of ship	7.2
"			15	08	004-1508.196		15	09		7.2 ft
"			15	09	005-1511.196		15	15		
"			15	17	006-1517.196		15			8.1 ft
"			15	22	007-1522.196		15	25	end of patch test	
CHIRP SWATH			15	30					west ship near shipping ch.	
Chirp SWATH			16	12	08CCT01-01		17	10	west survey track line	6.3 ft
Chirp Hypack			16	12	"		17	10		
Chirp SWATH			17	10	008-1510.196		17	10		
Chirp SWATH			17	26	08CCT01-01a		18	27	continuing line 1	7 ft
SWATH			17	26	"		18	27		
Hypack			17	26	015-1612.196		18	27		
Chirp			18	27	08CCT01-02		20	27	End of line west	7 ft
Hypack			18	31	013-1831.196		20	27	of ship channel.	
SWATH			18	31	08CCT01-02		19	52		
SWATH			19	52	08CCT01-02A		20	27		
CHIRP		197	15	20	08CCT01-03		16	55	west to east, west ship	7.5 ft
SWATH		"	"	"	"		16	55		
Hypack		"	"	"	011-1518.197		17	15		
Chirp		"	16	55	08CCT01-03B		17	15	GPS down	
SWATH		"	16	55	"		17	15		
Chirp		"	17	21	08CCT01-03C		17	30	CST was down 15k track	a/c.
SWATH		"	17	21	"		17	30		
Hypack		"	17	21	011-1721.197		17	30	end of line	
SWATH		"	17	35	08CCT01-04		18	11	red for shallow	
Chirp		"	17	35	"					
Hypack		"	17	35	09-1735.197					

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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)
Chirp		197	18	22	08CCT01-05		18	52	eol.	523
Swath			18	22	"		18	52		
hypack			18	22	007-1823.197		18	52		
Chirp			18	53	08CCT01-06		19	17		
Swath			11	"	"		19	17		
hypack			"	"	005-1917.197		19	17	eol	
Chirp			19	22	08CCT01-07		19	46		
Swath			19	22	"		19	46		
hypack			19	22	003-1922.197		19	46		
Chirp			19	47	08CCT01-08		19	56		
hypack			19	47	001-1947.197		19	56		
Swath			19	47	08CCT01-08		19	56		
Chirp			20	05	08CCT01-09		21	40		
hypack			20	05	010-2004.197		21	40		
Swath			20	05	08CCT01-09		22	13		
Chirp			21	40	08CCT01-09a		22	13	20k split	
Swath			"	"	"		22	13	continuing same line	
Chirp			22	14	08CCT01-10		23	03		
Swath			22	14	08CCT01-10a		23	03		
hypack			22	14	007-2214.197		23	03		
Chirp			23	06	08CCT01-11		23	55	eol at split end	
Swath			"	"	"		"	"		
hypack			23	06	005-2306.		"	"		
Chirp		198	14	29	08CCT01-12		15	22		
Swath		198	14	29	"		15	22		
hypack		198	14	29	003-1430.198		15	22		
Chirp		"	15	25	08CCT01-12a		15	37		
Chirp hypack		"	"	"	003 1525.198		15	37		
hypack Swath		"	"	"	08CCT01-12a		15	37		
Chirp			15	45	08CCT01-13					
Swath			"	"	"					
hypack			"	"	004-1546.198					

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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)
chirp		198	16	35	08 CCT 01-14		16	42		
swath		"	16	35	"		16	42	reboot swath	
hypack		"	16	35	002-1635.198		16	42		
chirp			16	47	08 CCT 02-14a		16	53		
swath			16	47	"		16	53		
hypack			16	47	002-1635.198		16	53		
chirp			16	54	08 CCT 02-15		16	56		
swath			16	54	"		16	56		
hypack			16	54	001-1654.198		16	56		
chirp			16	56	08 CCT 02-15a		17	10		
swath			16	56	"		17	10		
hypack			16	56	001-1704.198		17	10		
chirp			17	12	08 CCT 02-16		17	28		
swath			17	12	"		17	28		
hypack			17	12	082-1712.198		17	28		
chirp			17	39	08 CCT 02-17		17	39		
swath			17	39	"		17	39		
hypack			17	39	084-1740.198		17	46	started new file name	
hypack			17	46	085-1746.198		17	50		
chirp			17	58	08 CCT 02-18		18	28		
swath			17	58	"		18	28		
hypack			17	58	083-1759.198		18	25		
chirp			18	31	08 CCT 02-19		18	56		
swath			18	31	"		18	56		
hypack			18	31	081-1831.198		18	56		
chirp			18	59	08 CCT 02-20		20	02		
swath			18	59	"		20	02		
hypack			18	59	095-1859.198		20	49		
swath			20	02	08 CCT 02-20b		20	48		
chirp			20	02	08 CCT 02-20b		20	48		
chirp			20	51	08 CCT 02-21		20	51		
swath			20	51	"		20	56		
hypack			20	52	082-2051.198		20	56		

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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)
Chirp		198	20	59	08CCT01-22		21	05		
Swath		"	20	59	"		21	05		
Hypack		"	20	59	080-2059.198		21	05		
chirp			21	07	08CCT01-23		21	17		
swath			21	07	"		21	17		
hypack			21	07	094-2107.198		21	17		
chirp			21	20	08CCT01-24		21	30		
swath			21	20	"		21	30		
hypack			21	20	093-2120.198		21	31		
chirp			21	32	08CCT01-25		22	37		
swath			21	33	"		22	37		
hypack			21	33	091-2133.198		22	37		
swath			22	37	08CCT01-25A		23	12		
Chirp			22	37	"		23	12		
Chirp		199	14	34	08CCT01-26					
Swath		"	14	34	"		16	06		
Hypack			14	34	093-1434		16	06		
swath			14	33	08CCT01-26a		16	06	Subk variant	
Chirp			16	09	08CCT01-27		17	26		
Swath			16	09	"		17	26		
Hypack			18	09	08-1609.199		17	26		
swath			17	29	08CCT01-28		18	25		
Chirp			17	29	"		18	25		
Hypack			17	29	087-1729.199		19	14		
Chirp			18	25	08CCT-28A		19	14		
Hypack			18	25	"		19	14		
Chirp			19	17	08CCT-29		19	34		
Swath			19	17	"		19	34		
Hypack			19	17	089-1917.199		19	34		
Chirp			19	36	08CCT-30		20	24		
Swath			19	36	086-1936.199					
hypack			19	36	086-1936.199					

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Chirp		19	20	22	08CCT01-31		20	20		
Swath			20	25	"			40		
			20	25	08CCT02-25-195			1		
		19	20	59	08CCT01-32		21	47		
			20	03	"		21	47		
			20	03	08CCT01-33		21	47		
hypack		200	14	32	036-1432-200		15	07	Shoal	3
Swath			14	32	08CCT01-33		15	07		
Chirp			14	32	"		15	07		
Chirp			15	08	08CCT01-34		15	19		
Swath			15	08	"		15	19		
hypack			15	08	001-1508-200		15	29		
Chirp			15	23	08CCT01-35		15	38		
Swath			15	23	"		15	38		
hypack			15	23	037-1523-200		15	38		
Chirp			15	39	08CCT-036		16	11		
Swath			15	39	"		16	11		
hypack			15	39	036-1540-200		16	11		
Chirp			16	14	08CCT-037		16	49		
Swath			16	14	"		16	49	1629 Horn Sta. UP.	
hypack			16	14	034-1614-200		16	49	Swath down	
Chirp			16	58	08CCT-037A		17	25		
Swath			16	58	"		17	25		
hypack			16	58	034-1658-200		17	25		
Chirp			17	29	08CCT-038A		18	29		
Swath			17	29	"		18	29		
hypack			17	29	032-1729-200		18	29		
Chirp			18	41	08CCT-39		19	41		
Swath			18	41	"		19	41		
hypack			18	41	030-1841-200		19	41		
Chirp			19	43	08CCT-40		20	33		
Swath			19	43	"		20	33		
hypack			19	43	029-1943-200		20	33		

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Chirp	200	20	20	33	08CCT01-41		20	50		
Swath			20	33	"		20	50		
Hypack			20	33	029-2033-200	2	20	35		
Hypack			20	35	028-2035-200		20	50		
Chirp			21	04	08CCT01-42		21	35		
Swath			21	04	"		21	35		
Hypack			21	04	001-2104-200		21	35		
Chirp			21	35	08CCT01-43		22	21		
Swath			21	35	"		22	21		
Hypack			21	25	026-2136-200		22	21		
Chirp			22	24	08CCT01-44		22	46		
Swath			22	24	"		22	46		
Hypack			22	25	024-2225-200		22	46		
Chirp		201	14	20	08CCT01-45		15	38		
Swath			14	20	"		15	38		
Hypack			14	20	096-1420-201		15	38		
Chirp			15	47	08CCT01-46		16	51		
Swath			15	47	"		16	51		
Hypack			15	47	098-1547-201		16	51		
Chirp			16	55	08CCT01-47		17	48		
Swath			16	55	"		17	48		
Hypack			16	55	100-1654-201		17	48		
Chirp			18	05	08CCT01-48		18	14		
Swath			18	05	"		18	14		
Hypack			18	05	113-1805-201		18	14		
Chirp			18	15	08CCT01-49		19	00		
Swath			18	15	"		19	00		
Hypack			18	15	113-1816-201		19	00		
Chirp			19	03	08CCT01-50		19	47		
Swath			19	03	"		19	47		
Hypack			19	03	115-1904-201		19	47		

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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)
chirp		201	19	50	08CCT01-51		20	11		
swath			19	50	"		20	11		
hypack			19	50	117-1950.201		20	11		
chirp			20	16	08CCT01-52		20	31		
swath			20	16	"		20	31		
hypack			20	16	119-2016.201		20	31		
chirp			20	33	08CCT01-53					
swath			20	33	"					
hypack			20	33	121-2033.201					
chirp			20	54	08CCT01-54					
swath			20	54	"					
hypack			20	54	112-2054.201					
chirp			21	12	08CCT01-55		21	26		
swath			21	12	"		21	26		
hypack			21	12	117, 2112.201		21	26		
chirp			21	24	08CCT01-56		21	42		
swath			21	28	"		21	42		
hypack			21	28	119-2128.201		21	42		
chirp			21	43	08CCT01-57		21	54		17
swath			21	43	"		21	54		
hypack			21	43	121-2143.201		21	54		
chirp			21	56	08CCT01-58		22	08	end.	
swath			21	56	"		22	08		
hypack			21	56	123-2156.201		22	08		
chirp		202	18	41	08CCT01-59		19	28		
swath			"	"	"		19	28		
hypack			"	"	057-1841.202		19	28		
chirp			19	31	08CCT01-60		20	19		
swath			19	31	08CCT01-60		20	19		
hypack			19	31	055-1931.202		20	19		
chirp			20	22	08CCT01-61		21	00		
swath			20	22	"		21	00	Swath froze	
hypack			20	22	053-2022.202		21	00		

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Chirp	202	202	21	07	08CCT01-61a					
Swath			21	07	"					
hypack			21	07	053-2107.202					
Chirp			21	10	08CCT01-62					
Swath			21	10	"					
hypack			21	16	051-2116.202					
Chirp			21	25	08CCT01-62A					
Swath			21	25	"					
hypack			21	25	051-2126.202					
Chirp					08CCT01-63			23	02	
Swath					"					
hypack										
Chirp		203	18	53	08CCT01-64		19	18	offshore Ship Is Ch.	5.2m
Knudsen	KEB		18	53	"		19	18	3 Files: KEB, AF, LF S	egy +
Knudsen	Sgy		18	53	"		19	18		
hypack			18	53	001-1853.203			19	44	
Chirp			19	31	08CCT01-65			19	44	Chop
Knudsen			19	31	"			19	44	
hypack			19	34	001-1931.203			20	00	
Chirp			19	44	08CCT01-66			20	00	
Knudsen			19	44	"			20	"	
Chirp			20	01	08CCT01-67			20	12	
Knudsen			20	01	"			20	12	
Chirp			20	14	08CCT01-68			20	28	
Knudsen			20	14	"			20	28	
Chirp			20	29	08CCT01-69			20	43	
Knudsen			20	29	"			20	43	
Chirp			20	45	08CCT01-70			20	54	
Knudsen			20	45	"			20	54	
Chirp			21	47	08CCT01-71			21	01	inshore Channel Cut
Knudsen			21	47	"			21	01	
hypack			21	47	001-2147.203			21	01	

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Chirp	2-	203	21	01	08CCT01-72		21	08		
KandSen					"		21	08		
hypack					001-2147.203		21	08	2139 Hypack down	
Chirp			21	09	08CCT01-73		21	15		
KandSen			21	09	"		21	15		
Chirp			21	16	08CCT01-74		21	22		
KandSen			21	16	"		21	22		
Chirp			21	23	08CCT01-75		21	32		
KandSen			21	23	"		21	32		
Chirp			21	33	08CCT01-76		21	40		
KandSen			21	33	"		21	40		
hypack			22	39	001-2239.203					
Chirp			21	41	08CCT01-77		21	46		
KandSen			21	41	"		21	46		
Chirp			21	47	08CCT01-78		21	54		
KandSen			21	47	"		21	54		
Chirp			21	55	08CCT01-79		21	59		
KandSen			21	55	"		21	59		
Chirp		204	14	15	08CCT01-80		14	20		
KandSen			14	15	"		14	20		
hypack			14	15	001-1415.204		14	20		
Chirp			14	21	08CCT01-81		14	26		
KandSen			14	21	"		14	26		
hypack			14	27	001-1426.204		14	36		
Chirp			14	27	08CCT01-82		14	36		
KandSen			14	27	"		14	36		
Chirp			14	36	08CCT01-83		14	47		
KandSen			14	36	"		14	47		
hypack			14	36	001-1436.204		14	47		
Chirp			14	47	08CCT01-84		14	55		
KandSen			14	47	"		14	55		
hypack			14	47	001-1447.204		14	55		

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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)
Chirp		204	14	57	08CCT01-85	15	15	17		
Kanadson			14	57	"		15	17		
Hypack			14	57	001-1457.204		15	17		
Chirp			15	17	08CCT01-86		15	32		
Kanadson			15	17	"		15	32		
Hypack			15	17	001-1517.204		15	32		
Kanadson			15	32	08CCT01-87		15	41		
Chirp			15	32	"		15	41		
Chirp			16	34	08CCT01-88		16	57		
Kanadson			16	34	"		16	57		
Hypack			16	34	128-1634.204		16	57		
Chirp			16	59	08CCT01-89		17	25		
Kanadson			16	59	"		17	25		
Hypack			16	59	130-1659.204		17	25		
Chirp			17	27	08CCT01-90		17	51		
Kanadson			17	27	"		17	51		
Hypack			17	27	132-1727.204		17	51		
Chirp			17	53	08CCT01-91		18	20		
Kanadson			17	53	"		18	20		
Hypack			17	53	134-1753.204		18	20		
Chirp			18	22	08CCT01-92		18	45		
Kanadson			18	22	"		18	45		
Hypack			18	22	136-1822.204		18	45		
Chirp			18	46	08CCT01-93		19	13		
Kanadson			18	46	"		19	13		
Hypack			18	46	134-1846.204		19	13		
Chirp			19	13	08CCT01-94		19	37		
Kanadson			19	13	"		19	37		
Hypack			19	13	132-1913.204		19	37		
Chirp			19	39	08CCT01-95		20	06		
Kanadson			19	39	"		20	06		
Hypack			19	39			20	06		

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Chirp		204	20	10	08CCT01-96		20	32		
Kandson			20	10	"		20	32		
hypack			20	10	128-2009.204		20	32		
Chirp			20	28	08CCT01-97		20	50		
Kandson			20	28	"		20	50		
hypack			20	38	001-2038.204					
Chirp			20	50	08CCT01-98		21	17		
Kandson			20	50	"		21	17		
Chirp			21	17	08CCT01-99		21	31		
Kandson			21	17	"		21	31	Kandson 99 = Chirp 100	
Chirp			21	31	08CCT01-100		21	47		
Kandson					08CCT01-99		21	47		
Chirp			21	47	08CCT01-101		21	58	end end	
Kandson			21	47	08CCT01-101		21	58		
Chirp		205	16	52	08CCT01-102		17	49	offshore 200-205 SW	
Kandson			16	52	"		17	49	22' wind	
hypack			16	52	047-1652.205		17	49		
Chirp			17	52	08CCT01-103		18	41		
Kandson			17	52	"		18	41		
hypack			17	52	045-1752.205		18	41		
Chirp			18	42	08CCT01-104		19	09		
Kandson			18	42	"		19	09		
hypack			18	42	043-1842.205		19	09		
Chirp			19	12	08CCT01-105		19	39	Shoal	
Kandson			19	12	"		19	39		
hypack			19	12	041-1912.205		19	39		
Chirp			19	51	08CCT01-106		20	28		
Kandson			19	51	"		20	28		
hypack			19	51	078-1951.205		20	28		
Chirp			20	30	08CCT01-107		21	16	Sea state bad	
Kandson			20	30	"		21	16		
hypack			20	30	076-2031.205		21	16		

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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)
Chirp		205	21	19	08CCT01-108		21	57		
Knudsen			21	19	"		21	57		
Hypack			21	19	074-2119.205		21	57		
Chirp			21	58	08CCT01-109		22	39		
Knudsen			21	58	"		22	39		
Hypack			21	58	072-2159.205		22	39		
		205	15	40	075CCT01-110		16	00		
			15	40	"		16	00		
			15	40	063-1547.206		16	00		
Chirp			16	04	08CCT01-111		16	15		
Knudsen			16	04	"		16	15	start/stop rec (filename)	
Hypack			16	04	065-1603.206		16	15		
Chirp			16	17	08CCT01-112		16	49		
Knudsen			16	12	"		16	49		
Hypack			16	17	063-1618.206		16	49		
Chirp			16	52	08CCT01-113		17	36		
Knudsen			16	52	"		17	36		
Hypack			16	52	065-1652.206		17	36		
Chirp			17	38	08CCT01-114		18	17		
Knudsen			17	39	"		18	17		
Hypack			17	38	067-1739.206		18	17		
Chirp			18	20	08CCT01-115		19	00		
Knudsen			18	20	"		19	00		
Hypack			18	20	069-1820.206		19	00		
Chirp			19	09	08CCT01-116		19	14		
Knudsen			19	09	"		19	14		
Hypack			19	09	001-1909.206		19	14		
Chirp			19	16	08CCT01-117		19	29		
Knudsen			19	16	"		19	29		
Hypack			19	16	001-1906.206					
Chirp			19	30	08CCT01-118		19	40		
Knudsen			19	30	"		19	40		

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)
chirp		206	19	43	08cct01-119		19	58		
knudsen			19	43	"		19	58	N	
chirp			19	59	08cct01-120		20	09		
knudsen			19	59	"		20	09		
			20	10	08cct01-121		20	25		
knudsen			20	10	"		20	25	file name 20=121	
hypack			20	10	001-2010.206		20	25		
chirp			20	26	08cct01-122		20	53		
knudsen			20	26	"		20	53		
hypack			20	26	001-2027.206		20	59		
chirp			20	41	08cct01-123		20	53		
knudsen			20	41	"		20	53		
knudsen		207	14	44	08cct01-124		14	53	no TSS this line	
hypack			14	44	001-1445.207		14	53		
chirp			15	19	08cct01-125		15	41		
knudsen			15	19	"		15	41		
hypack			15	19	007-1520.207		15	41		
chirp			15	42	08cct01-126		15	54		
knudsen			15	42	"		15	56		
hypack			15	42	008-1543.207		15	56		
chirp			15	57	08cct01-127		16	17		
hypack			15	57	"		16	17		
knudsen			15	57	009-1557.207		16	17		
chirp			16	18	08cct01-128		16	32		
knudsen			16	18	"		16	32		
hypack			16	18	010-1618.207		16	32		
chirp			16	33	08cct01-129		16	51		
knudsen			16	33	"		16	51		
hypack			16	33	011-1634.207		16	51		
chirp			16	53	08cct01-130		16	59	start/stop	
knudsen			16	53	"		16	59		
hypack			16	53	001-1655.207		17	01		

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)
chirp		207	17	01	08ccT01-131		17	12		
knudsen			17	01	"		17	12		
hypack			17	01	002-1702.207		17	12		
chirp			17	13	08ccT01-132		17	26		
knudsen			17	13	"		17	26		
hypack			17	13	003-1714.207		17	26		
chirp			17	26	08ccT01-133		17	40		
knudsen			17	26	"		17	40		
hypack			17	26	004-1727.207		17	40		
chirp			17	42	08ccT01-134		17	56		
knudsen			17	42	"		17	56		
hypack			17	42	005-1742.207		17	56		
chirp			17	57	08ccT01-135		18	09		
knudsen			17	57	"		18	09		
hypack			17	57	006-1757.207		18	09		
chirp			18	10	08ccT01-136		18	18		
knudsen			18	10	"		18	18		
hypack			18	10	001-1810.207		18	38		
chirp			18	19	08ccT01-137		18	25		
knudsen			18	19	"		18	25		
chirp			18	26	08ccT01-138		18	38		
knudsen			18	26	"		18	38		
chirp					08ccT01-139				no nav to chirp	
knudsen			19	41	"		19	48		
hypack			19	41	001-1942.207		20	07		
knudsen			19	50	08ccT01-140		20	05		
knudsen			20	06	08ccT01-141		20	07		
knudsen			20	07	08ccT01-142		20	09		
knudsen			20	20	08ccT01-143		20	37	? continuation of 142	
knudsen			20	39	08ccT01-144		20	43		
hypack			20	39	001-2039.207		21	25		
knudsen			20	44	08ccT01-145		21	52		
chirp			20	46	"		21	02		

