Atlantic Surveyor 01005

NC Inner Shelf 2001 North of Oregon Inlet.

01005109

System	JD	UTC	Line	File	Comments
5	182	-			"system" notation: 1=navigation, 2=sidescan, 3=seismic, 4=submetrix, 5= misc. comments
5	182	1200			Begin mob. at NOAA dock
5	183	-			Continue mob.
5	184	0300			Depart NOAA dock.
5	184	1000			arrive N of 1st survey line, deploy gear.
2	184	1025			problem with port side, not transmitting
2	184	1030			fish brought back on deck
5	184	1115			bringing all gear aboard
2	184	1130			trouble shooting internals
3	184	1200			added flotation to boomer sled
2	184	1300			redeploy, testing!!
5	184	1315			heading for start of survey line 1, hypack line 6, cruise line 1 - 5-7km
3	184	1320			file NCtest2
4	184	1348			start of patch test line 1, submetrix calibration
5	184	1405			starting turn - part of patch line 2
5	184	1413			start of patch test line 2
5	184	1430			start turn -end of patch test line 2
5	184	1438			start of patch test line 3
5	184	1457			start turn -end of patch test line 3
5	184	1503			start of patch test line 4
5	184	1522			eol patch 4
5	184	1540			sound velocity station
5	184	1600			moving to start of survey line 1, Hypack area1_2, line 6
1	184	1606	1	006_1606.184	SOL 1. Adding line to seaward edge of 99045 area1
2	184	1606	1	lf1.dat	SOL 1. Adding line to seaward edge of 99045 area1. 400 m swath. Gains = 9db p/s, 12 db subb; power -9db subb.
3	184	1606	1	l1f1	SOL 1. Adding line to seaward edge of 99045 area1. 280 J output. 500 ms fire rate. 10 ms record delay. Display filters 240-3000 Hz, AGC on, 1 ms window.
4	184	1606	1	l1f1	SOL 1. Adding line to seaward edge of 99045 area1
4	184	1815	1	l1f1	Drop submetrix sidemount stanchion down 2 holes to try to add to range on port channel (we're bouncing off the hull...).
1	184	1832	1	l1f1	EOL 1, dogleg, keep same nav file in hypack
2	184	1832	1	l1f1.dat	EOL 1
3	184	1832	1	l1f1	EOL 1
4	184	1832	1	l1f1	EOL 1
1	184	1832	2	l2f1	sol 2. Adding line to seaward edge of 99045 area2
2	184	1832	2	l2f1	sol 2 Adding line to seaward edge of 99045 area2
3	184	1832	2	l2f2	sol 2. Adding line to seaward edge of 99045 area2 (note there is no f1; naming glitch)
4	184	1832	2	l2f1	sol 2. Adding line to seaward edge of 99045 area2
5	184	1854	2	l2f1	possible outcrops on sidescan; some really nice shallow subbottom, too.
4	184	1905	2	l2f1	submetrix MRU messed up. Offline.
4	184	2044	2	l2f2	submetrix pulled up, worked on, redeployed. Appears to be working
1	184	2055	2	006_1606.184	eol 2
2	184	2055	2	l2f1	eol 2
3	184	2055	2	l2f2	eol 2
4	184	2055	2	l2f2	eol 2
5	184	2055			transit inshore to start area 3
1	184	2133	3	021_2133.184	sol 3, begin area3 survey. Hypack area3a_clp line 21.
2	184	2133	3	l3f1	sol 3, begin area3 survey
3	184	2133	3	l3f1	sol 3, begin area3 survey

4	184	2133	3	I3f1	sol 3, begin area3 survey								
5	184	2310	3	I3f1	large paleo-valley in boomer, ~50 ms (~40 m) below sea surface.								
1	184	2356	3	021_2133.184	eol 3								
2	184	2356	3	I3f1	eol 3								
3	184	2356	3	I3f1	eol 3								
4	184	2356	3	I3f1	eol 3								
1	185	0005	4	022_005.185	sol 4. Hypack line 22 (working towards shore).								
2	185	0005	4	I4f1	sol 4								
3	185	0005	4	I4f1	sol 4								
4	185	0005	4	I4f1	sol 4								
3	185	0045	4	I4f1	some minor tweaking of gains on the geopulse receiver								
5	185	0055	4	I4f1	large paleo-valley in boomer, ~70 ms below sea surface.								
5	185	0112	4	I4f1	channel with acoustically transparent fill in boomer and chirp at 30 ms below sea sfc-- target for coring....								
5	185	0157	4	I4f1	complex channels in boomer and chirp.								
1	185	0214	4	022_005.185	eol 4								
2	185	0214	4	I4f1	eol 4								
3	185	0214	4	I4f1	eol 4								
4	185	0214	4	I4f1	eol 4								
1	185	0233	5	023_0233.185	sol5 Hypack line 23								
2	185	0233	5	I5f1	sol5								
3	185	0233	5	I5f1	sol5								
4	185	0233	5	I5f1	sol5								
5	185	0300	5	I5f1	make a sidescan/bathy overlay of the RSDs in this area								
2	185	0346	5	I5f2	file change								
1	185	0452	5	023_0233.185	eol5								
2	185	0452	5	I5f2	eol5								
3	185	0452	5	I5f1	eol5								
4	185	0452	5	I5f1	eol5								
1	185	0456	6	024_0456.185	sol6 Hypack line 24								
2	185	0456	6	I6f1	sol6								
3	185	0456	6	I6f1	sol6								
4	185	0456	6	I6f1	sol6								
2	185	0604	6	I6f1	pull in sidescan fish 2 meters due to shallow depth								
2	185	0605	6	I6f2	file change								
2	185	0645	6	I6f2	adjusted fish depth								
1	185	0710	6	024_0456.185	eol6								
2	185	0710	6	I6f2	eol6								
3	185	0710	6	I6f1	eol6								
4	185	0710	6	I6f1	eol6								
1	185	0714	7	025_0714.185	sol7 Hypack line 25								
2	185	0714	7	I7f1	sol7								
3	185	0714	7	I7f1	sol7								
4	185	0714	7	I7f1	sol7								
2	185	0832	7	I7f2	file change								
1	185	0943	7	025_0714.185	eol7								
2	185	0943	7	I7f2	eol7								
3	185	0943	7	I7f1	eol7								
4	185	0943	7	I7f1	eol7								
1	185	0947	8	026_0946.185	sol8 Hypack line 26								
2	185	0947	8	I8f1	sol8								
3	185	0947	8	I8f1	sol8								
4	185	0947	8	I8f1	sol8								

2	185	1058	8	l8f2	file change								
2	185	1120	8	l8f2	shoal feature..raised fish depth								
1	185	1201	8	026_0946.185	eol8								
2	185	1201	8	l8f2	eol8								
3	185	1201	8	l8f1	eol8								
4	185	1201	8	l8f1	eol8								
1	185	1207	9	027_1207.185	sol9 Hypack line 27								
2	185	1207	9	l9f1	sol9								
3	185	1207	9	l9f1	sol9								
4	185	1207	9	l9f1	sol9 , reset clock to proper time, subtracted one hour								
3	185	1213	9	l9f1	delayed start of recording!								
4	185	1236	9	l9f2	restart system, not updating display								
2	185	1324	9	l9f2	autoswitched at 200Mb limit								
1	185	1436	9	027_1207.185	eol9								
2	185	1436	9	l9f2	eol9								
3	185	1436	9	l9f1	eol9								
4	185	1436	9	l9f2	eol9								
5	185	1437	9	l9f1	end of near shore work. Breaking off to head to offshore lines..generator oil change in progress!								
1	185	1500	x	cross1	connector to offshore line								
2	185	1500	x	cross1	connector to offshore line								
3	185	1500	x	cross1	connector to offshore line								
4	185	1500	x	cross1	connector to offshore line								
3	185	1507	x	cross1	delayed start of recording!								
1	185	1511	10	020_1511.185	sol10 Hypack line 20								
2	185	1511	10	l10f1	sol10								
3	185	1511	10	l10f1	sol10								
4	185	1511	10	l10f1	sol10								
1	185	1726	10	020_1511.185	eol 10								
2	185	1726	10	l10f2	eol 10								
3	185	1726	10	l10f1	eol 10								
4	185	1726	10	l10f1	eol 10								
5	185	1726			end of surveys in area3 for the time being. Deteriorating wx and fcst, will head toward Little Creek picking up the next outboard line in 99045 areas 1 and 2								
1	185	1806	11	005_1806.185	sol 11. Picking up next seaward line in 99045 areas 1 and 2. Hypack area1_2, line 5.								
2	185	1806	11	l11f1	sol 11. Picking up next seaward line in 99045 areas 1 and 2.								
3	185	1806	11	l11f1	sol 11. Picking up next seaward line in 99045 areas 1 and 2.								
4	185	1806	11	l11f1	sol 11. Picking up next seaward line in 99045 areas 1 and 2.								
2	185	1925	11	l11f2	file change								
5	185	1939	11	l11f2	really nice channels in chirp and boomer here. Esp. chirp								
1	185	2015	11	005_1806.185	eol 11								
2	185	2015	11	l11f2	eol 11								
3	185	2015	11	l11f1	eol 11								
4	185	2015	11	l11f1	eol 11								
1	185	2015	12	005_1806.185	sol 12. Dogleg transition area2/area1. Keep same hypack file.								
2	185	2015	12	l12f1	sol 12. Note there are a few pings in file OVERFLOW.DAT (oops, file name issue).								
3	185	2015	12	l12f1	sol 12								
4	185	2015	12	l12f1	sol 12								
2	185	2135	12	l12f2	file change								
1	185	2218	12	005_1806.185	eol 12								
2	185	2218	12	l12f2	eol 12								
3	185	2218	12	l12f1	eol 12								
4	185	2218	12	l12f1	eol 12								
1	185	2225	13	004_2223.185	sol 13								

2	185	2225	13	l13f1	sol 13								
3	185	2225	13	l13f1	sol 13								
4	185	2225	13	l13f1	sol 13								
1	185	2332	13	004_2223.185	abort line 13 due to deteriorating wx.								
2	185	2332	13	l13f1	abort line 13 due to deteriorating wx.								
3	185	2332	13	l13f1	abort line 13 due to deteriorating wx.								
4	185	2332	13	l13f1	abort line 13 due to deteriorating wx.								
5	186	0400			arrive in port, Little Creek Navy base								
5	186	-			wx day in port, Little Creek								
5	187	1000			depart Little Creek Navy Base, extension on submetrix requires cal.								
5	187	1430			arrived for patch calibration survey								
4	187	1445			deployed instrument, hove to for obs, preparing for patch 2 survey								
4	187	1513			patch 1, leg 2 - compass failure...circle back for restart - contemplating aborting submetrix								
4	187	1530			re-booting submetrix computer system - compass???								
4	187	1600			restart patch test								
5	187	1727			confused seas, winds 15-18 kt, ops on hold off Currituck Light until things calm down.								
5	187	2300			deploy gear at N end of area3; repairs effected to TSS cable for MRU.								
5	187	2315			port channel out on SIS-1000; pull sidescan								
2	187	2315			port channel out on SIS-1000; pull sidescan								
2	188	0130			back in business.								
4	188	0130			Odom velocity profiler consumed by ship's prop.								
5	188	0130			back in business. But, Odom velocity profiler consumed by ship's prop.								
1	188	0130	14	019_0127.188	south end of the line (last 7000 m). Hypack line 19.								
2	188	0130	14	l14f1	sol 14 (southern 7000 m only)								
3	188	0130	14	l14f1	sol 14 (southern 7000 m only)								
4	188	0130	14	l14f1	sol 14 (southern 7000 m only)								
1	188	0230	14	019_0127.188	eol 14								
2	188	0230	14	l14f1	eol 14								
3	188	0230	14	l14f1	eol 14								
4	188	0230	14	l14f1	eol 14								
1	188	0237	15	018_0238.188	sol 15								
2	188	0237	15	l15f1	sol 15								
3	188	0237	15	l15f1	sol 15								
4	188	0237	15	l15f1	sol 15								
3	188	0337	15	l15f1	apparent deep channel (with floodplain terrace?) at ~90-110 ms								
5	188	0337	15	l15f1	apparent deep channel (with floodplain terrace?) at ~90-110 ms								
2	188	0352	15	l15f2	file change								
1	188	0457	15	018_0238.188	eol 15								
2	188	0457	15	l15f2	eol 15								
3	188	0457	15	l15f1	eol 15								
4	188	0457	15	l15f1	eol 15								
1	188	0503	16	017_0503.188	sol 16								
2	188	0503	16	l16f1	sol 16								
3	188	0503	16	l16f1	sol 16								
4	188	0503	16	l16f1	sol 16								
1	188	0725	16	017_0503.188	eol 16								
2	188	0725	16	l16f2	eol 16								
3	188	0725	16	l16f1	eol 16								
4	188	0725	16	l16f1	eol 16								
1	188	0733	17	016_0733.188	sol 17								
2	188	0733	17	l17f1	sol 17								

3	188	0733	17	I17f1	sol 17								
4	188	0733	17	I17f1	sol 17								
2	188	0850	17	I17f2	file change								
1	188	1001	17	016_0733.188	eol 17								
2	188	1001	17	I17f2	eol 17								
3	188	1001	17	I17f1	eol 17								
4	188	1001	17	I17f1	eol 17								
1	188	1006	18	015_1006.188	sol 18								
2	188	1006	18	I18f1	sol 18								
3	188	1006	18	I18f1	sol 18								
4	188	1006	18	I18f1	sol 18								
2	188	1122	18	I18f2	file change								
1	188	1230	18	015_1006.188	eol 18								
2	188	1230	18	I18f2	eol 18								
3	188	1230	18	I18f1	eol 18								
4	188	1230	18	I18f1	eol 18								
1	188	1237	19	014_1237.188	sol 19								
2	188	1237	19	I19f1	sol 19								
3	188	1237	19	I19f1	sol 19								
4	188	1237	19	I19f1	sol 19								
2	188	1353	19	I19f2	file change								
1	188	1457	19	014_1237.188	eol 19; now switching over to tie lines for a while								
2	188	1457	19	I19f2	eol 19; now switching over to tie lines for a while								
3	188	1457	19	I19f1	eol 19; now switching over to tie lines for a while								
4	188	1457	19	I19f1	eol 19; now switching over to tie lines for a while								
5	188	1500	-	-	time out for generator maintenance								
1	188	1516	20	001_1515.188	sol 20; a short, shore-oblique, shoreward-directed tie line at the N end of area3								
2	188	1516	20	I20f1	sol 20; a short, shore-oblique, shoreward-directed tie line at the N end of area3								
3	188	1516	20	I20f1	sol 20; a short, shore-oblique, shoreward-directed tie line at the N end of area3								
4	188	1516	20	I20f1	sol 20; a short, shore-oblique, shoreward-directed tie line at the N end of area3								
1	188	1557	20	001_1515.188	eol 20								
2	188	1557	20	I20f1	eol 20								
3	188	1557	20	I20f1	eol 20								
4	188	1557	20	I20f1	eol 20								
1	188	1557	21	001_1557.188	sol 21 begin area3 tie lines								
2	188	1557	21	I21f1	sol 21 begin area3 tie lines								
3	188	1557	21	I21f1	sol 21 begin area3 tie lines								
4	188	1557	21	I21f1	sol 21 begin area3 tie lines								
2	188	1605	21	I21f1	port channel experiencing intermittent drop-outs								
2	188	1607	21	I21f1	let fish out; problem resolved								
1	188	1705	21	001_1557.188	eol 21								
2	188	1705	21	I21f1	eol 21								
3	188	1705	21	I21f1	eol 21								
4	188	1705	21	I21f1	eol 21								
1	188	1707	22	001_1707.188	sol 22								
2	188	1707	22	I22f1	sol 22								
3	188	1707	22	I22f1	sol 22								
4	188	1707	22	I22f1	sol 22								
1	188	1730	22	001_1707.188	eol 22								
2	188	1730	22	I22f1	eol 22								
3	188	1730	22	I22f1	eol 22								
4	188	1730	22	I22f1	eol 22								

1	188	1730	23	001_1731.188	sol 23								
2	188	1730	23	I23f1	sol 23								
3	188	1730	23	I23f1	sol 23								
4	188	1730	23	I23f1	sol 23								
1	188	1830	23	001_1731.188	eol 23								
2	188	1830	23	I23f1	eol 23								
3	188	1830	23	I23f1	eol 23								
4	188	1830	23	I23f1	eol 23								
1	188	1832	24	001_1831.188	sol 24								
2	188	1832	24	I24f1	sol 24								
3	188	1832	24	I24f1	sol 24								
4	188	1832	24	I24f1	sol 24								
1	188	1856	24	001_1831.188	eol 24								
2	188	1856	24	I24f1	eol 24								
3	188	1856	24	I24f1	eol 24								
4	188	1856	24	I24f1	eol 24								
1	188	1857	25	001_1857.188	sol 25								
2	188	1857	25	I25f1	sol 25								
3	188	1857	25	I25f1	sol 25								
4	188	1857	25	I25f1	sol 25								
1	188	2000	25	001_1857.188	eol 25								
2	188	2000	25	I25f1	eol 25								
3	188	2000	25	I25f1	eol 25								
4	188	2000	25	I25f1	eol 25								
1	188	2001	26	001A2001.188	sol 26 (note "A" instead of "_" in file name).								
2	188	2001	26	I26f1	sol 26								
3	188	2001	26	I26f1	sol 26								
4	188	2001	26	I25f1	sol 26 (note file name)								
1	188	2024	26	001A2001.188	eol 26 (note "A" instead of "_" in file name).								
2	188	2024	26	I26f1	eol 26								
3	188	2024	26	I26f1	eol 26								
4	188	2024	26	I25f1	eol 26 (note file name)								
1	188	2026	27	001A2001.188	sol 27 (note same file name)								
2	188	2026	27	I27f1	sol 27								
3	188	2026	27	I27f1	sol 27								
4	188	2026	27	I27f1	sol 27								
5	188	2054	27	I27f1	slight bathymetric high with complex channeling beneath it. Cool.								
1	188	2122	27	001A2001.188	eol 27 (note same file name)								
2	188	2122	27	I27f1	eol 27								
3	188	2122	27	I27f1	eol 27								
4	188	2122	27	I27f1	eol 27								
1	188	2123	28	001A2123.188	sol 28								
2	188	2123	28	I28f1	sol 28								
3	188	2123	28	I28f1	sol 28								
4	188	2123	28	I28f1	sol 28								
1	188	2150	28	001A2123.188	eol 28								
2	188	2150	28	I28f1	eol 28								
3	188	2150	28	I28f1	eol 28								
4	188	2150	28	I28f1	eol 28								
1	188	2151	29	001A2123.188	sol 29 (note same file name)								
2	188	2151	29	I29f1	sol 29								
3	188	2151	29	I29f1	sol 29								

4	188	2151	29	I29f1	sol 29								
1	188	2252	29	001A2123.188	eol 29 (note same file name)								
2	188	2252	29	I29f1	eol 29								
3	188	2252	29	I29f1	eol 29								
4	188	2252	29	I29f1	eol 29								
1	188	2254	30	001_2254.188	sol 30								
2	188	2254	30	I30f1	sol 30								
3	188	2254	30	I30f1	sol 30								
4	188	2254	30	I30f1	sol 30								
1	188	2318	30	001_2254.188	eol 30								
2	188	2318	30	I30f1	eol 30								
3	188	2318	30	I30f1	eol 30								
4	188	2318	30	I30f1	eol 30								
1	188	2319	31	001_2254.188	sol 31								
2	188	2319	31	I31f1	sol 31								
3	188	2319	31	I31f1	sol 31								
4	188	2319	31	I31f1	sol 31								
1	189	0016	31	001_2254.188	eol 31								
2	189	0016	31	I31f1	eol 31								
3	189	0016	31	I31f1	eol 31								
4	189	0016	31	I31f1	eol 31								
1	189	0018	32	013_0024.189	sol 32 transit line to resume shore-parallel lines in area3								
2	189	0018	32	I32f1	sol 32 transit line to resume shore-parallel lines in area3								
3	189	0018	32	I32f1	sol 32 transit line to resume shore-parallel lines in area3								
4	189	0018	32	I32f1	sol 32 transit line to resume shore-parallel lines in area3								
1	189	0051	32	013_0024.189	eol 32								
2	189	0051	32	I32f1	eol 32								
3	189	0051	32	I32f1	eol 32								
4	189	0051	32	I32f1	eol 32								
1	189	0052	33	013_0052.189	sol 33. Resume shore-parallel lines in area3. Hypack line 13, area3a_clp.lnw								
2	189	0052	33	I33f1	sol 33. Resume shore-parallel lines in area3								
3	189	0052	33	I33f1	sol 33. Resume shore-parallel lines in area3								
4	189	0052	33	I33f1	sol 33. Resume shore-parallel lines in area3								
2	189	?	33	I33f2	file change								
1	189	0252	33	013_0052.189	eol 33								
2	189	0252	33	I33f1	eol 33								
3	189	0252	33	I33f1	eol 33								
4	189	0252	33	I33f1	eol 33								
1	189	0259	34	012_0258.189	sol 34. Hypack line 12.								
2	189	0259	34	I34f1	sol 34								
3	189	0259	34	I34f1	sol 34								
4	189	0259	34	I34f1	sol 34								
2	189	0414	34	I34f2	file change								
3	189	0442	34	I34f1	possible surface fault at 35.9908, 75.57368								
1	189	0514	34	012_0258.189	eol 34								
2	189	0514	34	I34f2	eol 34								
3	189	0514	34	I34f1	eol 34								
4	189	0514	34	I34f1	eol 34								
1	189	0521	35	011_0521.189	sol 35								
2	189	0521	35	I35f1	sol 35								
3	189	0521	35	I35f1	sol 35								
4	189	0521	35	I35f1	sol 35								

2	189	0630	35	I35f2	file change
1	189	0726	35	011_0521.189	eol 35
2	189	0726	35	I35f2	eol 35
3	189	0726	35	I35f1	eol 35
4	189	0726	35	I35f1	eol 35
1	189	0730	36	010_0730.189	sol 36
2	189	0730	36	I36f1	sol 36
3	189	0730	36	I36f1	sol 36
4	189	0730	36	I36f1	sol 36
2	189	0846	36	I36f2	file change
1	189	0946	36	010_0730.189	eol 36
2	189	0946	36	I36f2	eol 36
3	189	0946	36	I36f1	eol 36
4	189	0946	36	I36f1	eol 36
1	189	0952	37	009_0952.189	sol 37
2	189	0952	37	I37f1	sol 37
3	189	0952	37	I37f1	sol 37
4	189	0952	37	I37f1	sol 37
2	189	?	37	I37f2	file change
1	189	1151	37	009_0952.189	eol 37
2	189	1151	37	I37f2	eol 37
3	189	1151	37	I37f1	eol 37
4	189	1151	37	I37f1	eol 37
2	189	1157	38	I38f1	sol 38
3	189	1157	38	I38f1	sol 38
4	189	1157	38	I38f1	sol 38
1	189	1155	38	008_1155.189	sol 38
2	189	1311	38	I38f2	file change
1	189	1412	38	008_1155.189	eol 38
2	189	1412	38	I38f2	eol 38
3	189	1412	38	I38f1	eol 38
4	189	1412	38	I38f1	eol 38
5	189	1412			jogging between lines while generator is checked
1	189	1424	39	007_1424.189	sol 39
2	189	1424	39	I39f1	sol 39
3	189	1424	39	I39f1	sol 39
4	189	1424	39	I39f1	sol 39
2	189	1540	39	I39f2	file change
5	189	1558	39	I39f1/f2	*really* nice channel complex in chirp and boomer. Best we've seen yet. Also is a slight bathy high.
1	189	1627	39	007_1424.189	eol 39 begin transit inshore to pick up missing part of area3 hypack line 19 (cruise I14)
2	189	1627	39	I39f2	eol 39 begin transit inshore to pick up missing part of area3 hypack line 19 (cruise I14)
3	189	1627	39	I39f1	eol 39 begin transit inshore to pick up missing part of area3 hypack line 19 (cruise I14)
4	189	1627	39	I39f1	eol 39 begin transit inshore to pick up missing part of area3 hypack line 19 (cruise I14)
1	189	1657	40	019_1657.189	sol 40 filling in missing part of area3 hypack line 19 (cruise I14)
2	189	1657	40	I40f1	sol 40 filling in missing part of area3 hypack line 19 (cruise I14)
3	189	1657	40	I40f1	sol 40 filling in missing part of area3 hypack line 19 (cruise I14)
4	189	1657	40	I40f1	sol 40 filling in missing part of area3 hypack line 19 (cruise I14)
5	189	1742	40	I40f1	interesting nested, yet isolated channel in chirp. The small channel appears to be above the "ravinement" surface. Hmm.
5	189	1756	40	I40f1	a nearly symmetrical, and symmetrically filled, channel in chirp. Bathtub rings?
1	189	1823	40	019_1657.189	eol 40 end of lines for a little bit while we do a patch test for the submetrix.
2	189	1823	40	I40f1	eol 40 end of lines for a little bit while we do a patch test for the submetrix.
3	189	1823	40	I40f1	eol 40 end of lines for a little bit while we do a patch test for the submetrix.

4	189	1823	40	l40f1	eol 40 end of lines for a little bit while we do a patch test for the submetrix.
1	189	1857	p1	001_1857.189	sol patch test line 1
4	189	1857	p1	patch1	sol patch test line 1, in patch189 folder
1	189	1903	p1	001_1857.189	eol patch test line 1
4	189	1903	p1	patch1	eol patch test line 1, in patch189 folder
1	189	1907	p2	002_1907.189	sol patch test line 2
4	189	1907	p2	patch2	sol patch test line 2
1	189	1912	p2	002_1907.189	eol patch test line 2
4	189	1912	p2	patch2	eol patch test line 2
1	189	1918	p3	003_1918.189	sol patch test line 3
4	189	1918	p3	patch3	sol patch test line 3
1	189	1924	p3	003_1918.189	eol patch test line 3
4	189	1924	p3	patch3	eol patch test line 3
1	189	1929	p4	004_1929.189	sol patch test line 4
4	189	1929	p4	patch4	sol patch test line 4
1	189	1933	p4	004_1929.189	eol patch test line 4
4	189	1933	p4	patch4	eol patch test line 4
1	189	1939	p5	005_1939.189	sol patch test line 5
4	189	1939	p5	patch5	sol patch test line 5
1	189	1945	p5	005_1939.189	eol patch test line 5. End patch test
4	189	1945	p5	patch5	eol patch test line 5. End patch test
4	189	2030	-	-	NOW USING JD 189 PATCH TEST CORRECTIONS STARTING THIS LINE.
1	189	2032	41	026_2032.189	sol 41. Begin surveys in area4
2	189	2032	41	l41f1	sol 41. Begin surveys in area4
3	189	2032	41	l41f1	sol 41. Begin surveys in area4
4	189	2032	41	l41f1	sol 41. Begin surveys in area4
3	189	2100	41	l41f1	engine interference with boomer. Have messed around with engine rpms to little avail. Will mess again in a little while.
5	189	2120	41	l41f1	channeled surface in chirp, with some sfc expression in sidescan
5	189	2123	41	l41f1	small scarps and outcrops visible in chirp and submetrix. We're about 1/2 mi N of the S. Nags Head water ball.
2	189	2136	41	l41f1	nav has been out to elics for a while. Now restored
2	189	2145	41	l41f2	file change
1	189	2228	41	026_2032.189	eol 41
2	189	2228	41	l41f2	eol 41
3	189	2228	41	l41f1	eol 41
4	189	2228	41	l41f1	eol 41
1	189	2238	42	025_2238.189	sol 42
2	189	2238	42	l42f2	sol 42. Note l41f1 is bogus (includes the turn and a bit of a wander...) DO NOT process or mosaic l41f1.
3	189	2238	42	l42f1	sol 42
4	189	2238	42	l42f1	sol 42
2	189	2342	42	l42f3	file change
2	189	2342	42	l42f3	reduced chirp power to -9db
5	189	2356	42	l42f1	nice BSDs in the submetrix
5	189	2358	42	l42f3	outcrop surfacing in chirp at sidescan backscatter change. Good example for figure.
1	190	0023	42	025_2238.189	eol 42
2	190	0023	42	l42f3	eol 42
3	190	0023	42	l42f1	eol 42
4	190	0023	42	l42f1	eol 42
1	190	0030	43	024_0030.190	sol 43
2	190	0030	43	l43f1	sol 43. Subbottom power back to -9 db
3	190	0030	43	l43f1	sol 43

4	190	0030	43	I43f1	sol 43
2	190	0146	43	I43f2	file change
2	190	0200	43	188-0145.dat	some confusion over file names and where they are. Apparently there is no I43f2. The present file 188-0145.dat will be renamed I43f3.dat
2	190	0200	43	I43f4	file change
1	190	0226	43	024_0030.190	eol 43
2	190	0226	43	I43f1	eol 43
3	190	0226	43	I43f1	eol 43
4	190	0226	43	I43f4	eol 43
1	190	0229	44	Q23_0229.190	sol 44
2	190	0229	44	I44f1	sol 44
3	190	0229	44	I44f1	sol 44
4	190	0229	44	I44f1	sol 44
2	190	0345	44	188-0345.dat	another weird file name auto-change
2	190	0347	44	I44f3	file change
1	190	0428	44	023_0229.190	eol 44
2	190	0428	44	I44f3	eol 44 carried past annotated end to cover gap
3	190	0428	44	I44f1	eol 44
4	190	0428	44	I44f1	eol 44
1	190	0434	45	022_0434.190	sol 45
2	190	0434	45	I45f1	sol 45 started early to cover gap in other area
3	190	0434	45	I45f1	sol 45
4	190	0434	45	I45f1	sol 45
2	190	0552	45	I45f2	file change
2	190	0553	45	I45f2	Jane noticed system date on ISIS is off since line 14 - by one or two julian days
1	190	0700	45	022_0434.190	eol 45
2	190	0700	45	I45f2	eol 45, changed system date from 7 July to 9 July 2001
3	190	0700	45	I45f1	eol 45
4	190	0700	45	I45f1	eol 45
1	190	0708	46	021_0708.190	sol 46
2	190	0708	46	I46f1	sol 46
3	190	0708	46	I46f1	sol 46
4	190	0708	46	I46f1	sol 46
2	190	0822	46	I46f2	file change
1	190	0912	46	021_0708.190	eol 46
2	190	0912	46	I46f2	eol 46
3	190	0912	46	I46f1	eol 46
4	190	0912	46	I46f1	eol 46
1	190	0917	47	020_0917.190	sol 47
2	190	0917	47	I47f1	sol 47
3	190	0917	47	I47f1	sol 47
4	190	0917	47	I47f1	sol 47
2	190	1034	47	I47f2	file change
2	190	1150	47	I47f3	file change
3	190	1156	47	I47f1	boomer power source intermittent
1	190	1205	47	020_0917.190	eol 47
2	190	1205	47	I47f3	eol 47
3	190	1205	47	I47f1	eol 47 lower power at end of line, 105 joules
4	190	1205	47	I47f1	eol 47
1	190	1210	48	Q19_1210.190	sol 48
2	190	1210	48	I48f1	sol 48
3	190	1210	48	I48f1	sol 48
4	190	1210	48	I48f1	sol 48

5	190	1220	48		maneuvered around buoy								
2	190	1305	48	I48f1	surface signature from patrol boat circling off the stern								
2	190	?	48	I48f2	file change								
1	190	1424	48	019_1210.190	eol 48								
2	190	1424	48	I48f2	eol 48								
3	190	1424	48	I48f1	eol 48								
4	190	1424	48	I48f1	eol 48								
1	190	1430	49	018_1430.190	sol 49								
2	190	1430	49	I49f1	sol 49								
3	190	1430	49	I49f1	sol 49 - still at 105 joules								
4	190	1430	49	I49f1	sol 49								
3	190	1434	49	I49f1	testing power source, confirmed lower setting - 105 joules - twiggy								
2	190	1546	49	I49f2	file change								
1	190	1700	49	018_1430.190	eol 49								
2	190	1700	49	I49f2	eol 49								
3	190	1700	49	I49f1	eol 49								
4	190	1700	49	I49f1	eol 49								
1	190	1706	50	017_1706.190	sol 50								
2	190	1706	50	I50f1	sol 50								
3	190	1706	50	I50f1	sol 50								
4	190	1706	50	I50f1	sol 50								
3	190	1715	50	I50f1	messing around with fire rate on boomer, now at 0.250 shot/sec								
2	190	1820	50	I50f2	file change								
1	190	1919	50	017_1706.190	eol 50								
2	190	1919	50	I50f2	eol 50								
3	190	1919	50	I50f1	eol 50								
4	190	1919	50	I50f1	eol 50								
1	190	1922	51	016_1922.190	sol 51								
2	190	1922	51	I51f1	sol 51								
3	190	1922	51	I51f1	sol 51								
4	190	1922	51	I51f1	sol 51								
2	190	2038	51	I51f2	file change								
1	190	2134	51	016_1922.190	eol 51								
2	190	2134	51	I51f2	eol 51								
3	190	2134	51	I51f1	eol 51								
4	190	2134	51	I51f1	eol 51								
1	190	2146	52	015_2146.190	sol 52								
2	190	2146	52	I52f1	sol 52								
3	190	2146	52	I52f1	sol 52								
4	190	2146	52	I52f1	sol 52								
2	190	2255	52	I52f1	a good place to sort out the reflectors from the multiples in the boomer								
5	190	2255	52	I52f1	a good place to sort out the reflectors from the multiples in the boomer								
2	190	2305	52	I52f2	file change								
5	190	2340	52	I52f2	channel in chirp, sits on top of and cuts through the "ravinement" sfc.								
1	191	0000	52	015_000.191	apparent hypack auto-change of file. Rollover of julian day? It's a feature, not a bug....								
1	191	0002	52	015_000.191	eol 52								
2	191	0002	52	I52f1	eol 52								
3	191	0002	52	I52f1	eol 52								
4	191	0002	52	I52f1	eol 52								
1	191	0007	53	014_0007.191	sol 53								
2	191	0007	53	I53f1	sol 53								
3	191	0007	53	I53f1	sol 53								

4	191	0007	53	I53f1	sol 53
2	191	0124	53	I53f2	file change
1	191	0223	53	014_0007.191	eol 53
2	191	0223	53	I53f2	eol 53
3	191	0223	53	I53f1	eol 53
4	191	0223	53	I53f1	eol 53
1	191	0230	54	013_0230.191	sol 54
2	191	0230	54	I54f1	sol 54
3	191	0230	54	I54f1	sol 54
4	191	0230	54	I54f1	sol 54
5	191	0302	54	I54f1	nice example of "ravinement" going under an apparent sand body. Also compare bathy of this feature – somewhat isolated and perhaps not related to the "massif" to the north.
2	191	0348	54	I54f2	file change
3	191	0430	54	I54f1	Hi Pass Pre-Filter set to 300HZ to minimize low frequency input noise from ships screws.
1	191	0452	54	013_0230.191	eol 54
2	191	0452	54	I54f2	eol 54
3	191	0452	54	I54f1	eol 54
4	191	0452	54	I54f1	eol 54
1	191	0458	55	012_0458.191	sol 55
2	191	0458	55	I55f1	sol 55
3	191	0458	55	I55f1	sol 55
4	191	0458	55	I55f1	sol 55
3	191	0503	55	I55f1	change filter back to 100HZ
2	191	0613	55	I55f2	file change
2	191	0726	55	I55f3	file change
1	191	0737	55	012_0458.191	eol 55
2	191	0737	55	I55f3	eol 55
3	191	0737	55	I55f1	eol 55
4	191	0737	55	I55f1	eol 55
1	191	0745	56	011_0745.191	sol 56
2	191	0745	56	I56f1	sol 56
3	191	0745	56	I56f1	sol 56
4	191	0745	56	I56f1	sol 56
2	191	0901	56	I56f2	file change
1	191	1014	56	011_0745.191	eol 56
2	191	1014	56	I56f2	eol 56
3	191	1014	56	I56f1	eol 56
4	191	1014	56	I56f1	eol 56
1	191	1020	57	010_1020.191	sol 57
2	191	1020	57	I57f1	sol 57
3	191	1020	57	I57f1	sol 57
4	191	1020	57	I57f1	sol 57
3	191	1030	57	I57f1	late start - problem with program set up - polloni hit stop button instead of "rec" off!
3	191	1045	57	I57f2	seismic logging back on line! Finally - year needs char count start for "50"!
3	191	1115	57	I57f2	hauling boomer sound source for retro - switching power source
2	191	1136	57	I57f2	file change
3	191	1158	57		boomer back in the water
3	191	1204	57	I57f3	restart with applied acoustics power supply. 300 J, 0.5 s shot rate.
1	191	1204	57	010_1020.191	there are two brief interludes of slow speed this line due to haul and reconfig of the boomer sled
2	191	1204	57	I57f2	there are two brief interludes of slow speed this line due to haul and reconfig of the boomer sled
3	191	1204	57	I57f3	there are two brief interludes of slow speed this line due to haul and reconfig of the boomer sled
4	191	1204	57	I57f1	there are two brief interludes of slow speed this line due to haul and reconfig of the boomer sled
1	191	1244	57	010_1020.191	eol 57

2	191	1244	57	I57f2	eol 57								
3	191	1244	57	I57f3	eol 57								
4	191	1244	57	I57f1	eol 57								
1	191	1249	58	009_1249.191	sol 58								
2	191	1249	58	I58f1	sol 58								
3	191	1249	58	I58f1	sol 58								
4	191	1249	58	I58f1	sol 58								
2	191	1405	58	I58f2	file change								
1	191	1506	58	009_1249.191	eol 58								
2	191	1506	58	I58f2	eol 58								
3	191	1506	58	I58f1	eol 58								
4	191	1506	58	I58f1	eol 58								
1	191	1511	59	008_1511.191	sol 59								
2	191	1511	59	I59f1	sol 59								
3	191	1511	59	I59f1	sol 59								
4	191	1511	59	I59f1	sol 59								
2	191	1524	59	I59f1	box visible to starboard - refrigerator?? Small barge? In fish habitat area								
2	191	1625	59	I59f2	file change								
1	191	1720	59	008_1511.191	eol 59 suspend shore-parallel lines in area4 to do tie lines								
2	191	1720	59	I59f2	eol 59 suspend shore-parallel lines in area4 to do tie lines								
3	191	1720	59	I59f1	eol 59 suspend shore-parallel lines in area4 to do tie lines								
4	191	1720	59	I59f1	eol 59 suspend shore-parallel lines in area4 to do tie lines								
1	191	1725	60	001_1730.191	sol 60 start tie lines in area4; running shoreward into Oregon Inlet								
2	191	1725	60	I60f1	sol 60 start tie lines in area4; running shoreward into Oregon Inlet								
3	191	1725	60	I60f1	sol 60 start tie lines in area4; running shoreward into Oregon Inlet								
4	191	1725	60	I60f1	sol 60 start tie lines in area4; running shoreward into Oregon Inlet								
1	191	1754	60	001_1730.191	eol 60								
2	191	1754	60	I60f1	eol 60								
3	191	1754	60	I60f1	eol 60								
4	191	1754	60	I60f1	eol 60								
1	191	1757	61	001_1757.191	sol 61. First full tie line at S end of area4, onshore->offshore								
2	191	1757	61	I61f1	sol 61. First full tie line at S end of area4, onshore->offshore								
3	191	1757	61	I61f1	sol 61. First full tie line at S end of area4, onshore->offshore								
4	191	1757	61	I61f1	sol 61. First full tie line at S end of area4, onshore->offshore								
1	191	1846	61	001_1757.191	eol 61								
2	191	1846	61	I61f1	eol 61								
3	191	1846	61	I61f1	eol 61								
4	191	1846	61	I61f1	eol 61								
1	191	1847	62	001_1847.191	sol 62								
2	191	1847	62	I62f1	sol 62								
3	191	1847	62	I62f1	sol 62								
4	191	1847	62	I62f1	sol 62								
1	191	1917	62	001_1847.191	eol 62								
2	191	1917	62	I62f1	eol 62								
3	191	1917	62	I62f1	eol 62								
4	191	1917	62	I62f1	eol 62								
1	191	1917	63	001_1917.191	sol 63, offshore->onshore								
2	191	1917	63	I63f1	sol 63, offshore->onshore								
3	191	1917	63	I63f1	sol 63, offshore->onshore								
4	191	1917	63	I63f1	sol 63, offshore->onshore								
1	191	2016	63	001_1917.191	eol 63								
2	191	2016	63	I63f1	eol 63								

3	191	2016	63	I63f1	eol 63								
4	191	2016	63	I63f1	eol 63								
1	191	2016	64	001_2016.191	sol 64								
2	191	2016	64	I64f1	sol 64								
3	191	2016	64	I64f1	sol 64								
4	191	2016	64	I64f1	sol 64								
1	191	2041	64	001_2016.191	eol 64								
2	191	2041	64	I64f1	eol 64								
3	191	2041	64	I64f1	eol 64								
4	191	2041	64	I64f1	eol 64								
1	191	2041	65	001_2041.191	sol 65, onshore->offshore								
2	191	2041	65	I65f1	sol 65, onshore->offshore								
3	191	2041	65	I65f1	sol 65, onshore->offshore								
4	191	2041	65	I65f1	sol 65, onshore->offshore								
1	191	2144	65	001_2041.191	eol 65								
2	191	2144	65	I65f1	eol 65								
3	191	2144	65	I65f1	eol 65								
4	191	2144	65	I65f1	eol 65								
1	191	2144	66	001_2144.191	sol 66								
2	191	2144	66	I66f1	sol 66								
3	191	2144	66	I66f1	sol 66								
4	191	2144	66	I66f1	sol 66								
1	191	2209	66	001_2144.191	eol 66								
2	191	2209	66	I66f1	eol 66								
3	191	2209	66	I66f1	eol 66								
4	191	2209	66	I66f1	eol 66								
1	191	2209	67	001_2209.191	sol 67, offshore->onshore								
2	191	2209	67	I67f1	sol 67, offshore->onshore								
3	191	2209	67	I67f1	sol 67, offshore->onshore								
4	191	2218	67	I67f1	sol 67, offshore->onshore. Note time delay in changing files.								
5	191	2300	68	I67f1	nice low-backscatter ridge with basal unconformity in chirp, and a ridge-parallel reflector, too. Interesting.								
1	191	2305	67	001_2209.191	eol 67								
2	191	2305	67	I67f1	eol 67								
3	191	2305	67	I67f1	eol 67								
4	191	2305	67	I67f1	eol 67								
1	191	2305	68	008_2305.191	sol 68, shore-oblique offshore tie line to get back to shore-parallel surveys								
2	191	2305	68	I68f1	sol 68, shore-oblique offshore tie line to get back to shore-parallel surveys								
3	191	2305	68	I68f1	sol 68, shore-oblique offshore tie line to get back to shore-parallel surveys								
4	191	2305	68	I68f1	sol 68, shore-oblique offshore tie line to get back to shore-parallel surveys								
1	192	0006	68	008_2305.191	eol 68, end of tie lines								
2	192	0006	68	I68f1	eol 68, end of tie lines								
3	192	0006	68	I68f1	eol 68, end of tie lines								
4	192	0006	68	I68f1	eol 68, end of tie lines								
1	192	0011	69	007_0011.192	sol 69, resume shore-parallel surveys in area4								
2	192	0011	69	I69f1	sol 69, resume shore-parallel surveys in area4								
3	192	0011	69	I69f1	sol 69, resume shore-parallel surveys in area4								
4	192	0011	69	I69f1	sol 69, resume shore-parallel surveys in area4								
1	192	0120	69	007_0011.192	eol 69 temporarily to fix a hole in line 57								
2	192	0120	69	I69f1	eol 69 temporarily to fix a hole in line 57								
3	192	0120	69	I69f1	eol 69 temporarily to fix a hole in line 57								
4	192	0120	69	I69f1	eol 69 temporarily to fix a hole in line 57								
1	192	0129	57	010_0128.192	sol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections								

2	192	0129	57	l57f3	sol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
3	192	0129	57	l57f4	sol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
4	192	0129	57	l57f2	sol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
1	192	0145	57	010_0128.192	eol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
2	192	0145	57	l57f3	eol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
3	192	0145	57	l57f4	eol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
4	192	0145	57	l57f2	eol fill-in line 57, hypack line 10, area4, to fix where we missed earlier today while swapping boomer sled connections									
1	192	0158	69	007_0158.192	sol 69, resume shore-parallel line									
2	192	0158	69	l69f2	sol 69, resume shore-parallel line									
3	192	0158	69	l69f2	sol 69, resume shore-parallel line									
4	192	0158	69	l69f2	sol 69, resume shore-parallel line									
1	192	0318	69	007_0158.192	eol 69									
2	192	0318	69	l69f2	eol 69									
3	192	0318	69	l69f2	eol 69									
4	192	0318	69	l69f2	eol 69									
1	192	0322	70	006_0322.192	sol 70									
2	192	0322	70	l70f1	sol 70									
3	192	0322	70	l70f1	sol 70									
4	192	0322	70	l70f1	sol 70									
2	192	0438	70	192-0438.dat	another weird file name auto-change									
1	192	0520	70	006_0322.192	eol 70 - matrix area 4									
2	192	0520	70	192-0438.dat	eol 70									
3	192	0520	70	l70f1	eol 70									
4	192	0520	70	l70f1	eol 70									
1	192	0521	71	006_0521.192	sol 71 - matrix area 3									
2	192	0521	71	l71f1	sol 71									
3	192	0521	71	l71f1	sol 71									
4	192	0521	71	l71f1	sol 71									
2	192	0548	71	l71f1	crater?? Interesting feature! Wow!									
2	192	0638	71	l71f2	file change									
1	192	0723	71	006_0521.192	eol 71 - matrix area 3									
2	192	0723	71	l71f2	eol 71									
3	192	0723	71	l71f1	eol 71									
4	192	0723	71	l71f1	eol 71									
1	192	0729	72	005_0729.192	sol 72 - matrix area 3									
2	192	0729	72	l72f1	sol 72 - matrix area 3									
3	192	0729	72	l72f1	sol 72 - matrix area 3									
4	192	0729	72	l72f1	sol 72									
2	192	0845	72	l72f2	file change									
1	192	0959	72	005_0729.192	eol 72 - matrix area 3									
2	192	0959	72	l72f2	eol 72 - matrix area 3									
3	192	0959	72	l72f1	eol 72 - matrix area 3									
4	192	0959	72	l72f1	eol 72									
1	192	0959	73	005_0959.192	sol 73 - matrix area 4									
2	192	0959	73	l73f1	sol 73 - matrix area 4									
3	192	0959	73	l73f1	sol 73 - matrix area 4									
4	192	0959	73	l73f1	sol 73 - matrix area 4									
2	192	1115	73	l73f2	file change									
1	192	1220	73	005_0959.192	eol 73 - matrix area 4									
2	192	1220	73	l73f2	eol 73 - matrix area 4									
3	192	1220	73	l73f1	eol 73 - matrix area 4									
4	192	1220	73	l73f1	eol 73 - matrix area 4									

1	192	1224	74	004_1224.192	sol 74 - matrix area 4								
2	192	1224	74	l74f1	sol 74 - matrix area 4								
3	192	1224	74	l74f1	sol 74 - matrix area 4								
4	192	1224	74	l74f1	sol 74 - matrix area 4								
2	192	1340	74	l74f2	file change								
1	192	1432	74	004_1224.192	eol 74 - matrix area 4								
2	192	1432	74	l74f2	eol 74 - matrix area 4								
3	192	1432	74	l74f1	eol 74 - matrix area 4								
4	192	1432	74	l74f1	eol 74 - matrix area 4								
1	192	1433	75	l75f1	connection to area3 line 4 offset! - switching to line 76 and Hypack line 4								
1	192	1434	75	l75f1	no logging								
2	192	1434	75	l75f1	connector file - n/a								
3	192	1434	75	l75f1	connector file - n/a								
4	192	1434	75	l75f1	connector file - n/a								
1	192	1438	76	004_1438.192	sol 76 - matrix area 3 - Hypack line 4!								
2	192	1438	76	l76f1	sol 76 - matrix area 3								
3	192	1438	76	l76f1	sol 76 - matrix area 3								
4	192	1438	76	l76f1	sol 76 - matrix area 3								
2	192	??	76	192-1553.dat	another weird file name auto-change								
1	192	1643	76	004_1438.192	eol 76								
2	192	1643	76	192-1553.dat	eol 76								
3	192	1643	76	l76f1	eol 76								
4	192	1643	76	l76f1	eol 76								
1	192	1645			break off surveys to recon a floating jet-ski we observed and reported in area3, per USCG request								
2	192	1645			break off surveys to recon a floating jet-ski we observed and reported in area3, per USCG request								
3	192	1645			break off surveys to recon a floating jet-ski we observed and reported in area3, per USCG request								
4	192	1645			break off surveys to recon a floating jet-ski we observed and reported in area3, per USCG request								
5	192	1645			break off surveys to recon a floating jet-ski we observed and reported in area3, per USCG request								
1	192	1738	77	004_1738.192	sol 77, area1_2, hypack line 4 in area2								
2	192	1738	77	l77f1	sol 77, area1_2, hypack line 4 in area2								
3	192	1738	77	l77f1	sol 77, area1_2, hypack line 4 in area2								
4	192	1738	77	l77f1	sol 77, area1_2, hypack line 4 in area2								
4	192	1850	77	l77f1	some brief messing around with power and pulse length settings, returned to original settings								
2	192	1850	77	l77f2	file change								
1	192	1931	77	004_1738.192	eol 77								
2	192	1931	77	l77f2	eol 77								
3	192	1931	77	l77f1	eol 77								
4	192	1931	77	l77f1	eol 77								
1	192	1931	78	004_1931.192	sol 78, area1_2, hypack line 4 in area1								
2	192	1931	78	l78f1	sol 78, area1_2, hypack line 4 in area1								
3	192	1931	78	l78f1	sol 78, area1_2, hypack line 4 in area1								
4	192	1931	78	l78f1	sol 78, area1_2, hypack line 4 in area1								
5	192	1945	78	l78f1	really nice deep channel in chirp and boomer. Bottoms out in boomer at ~57 ms.								
5	192	2024	78	l78f1	offshore of the big high backscatter area in area1 the shallow subsfc is really chewed up by channels, more in boomer, but also visible in chirp.								
2	192	2045	78	l78f2	file change								
3	192	2052	78	l78f1	boomer power source quit								
1	192	2119	78	004_1931.192	eol 78								
2	192	2119	78	l78f2	eol 78								
3	192	2119	78	l78f1	eol 78								
4	192	2119	78	l78f1	eol 78								
1	192	2122	79	003_2122.192	sol 79								
2	192	2122	79	l79f1	sol 79								

3	192	2122	79	offline	sol 79								
4	192	2122	79	I79f1	sol 79								
2	192	2151	79	I79f1	scarp at edge of channel complex where it crops out on seafloor. Pretty spectacular. Good figure.								
5	192	2200			squalls ahead of a cold front are approaching. Wind has gone NE 15-20.								
1	192	2237	79	I79f1	suspend ops due to wx and 2 non-functioning boomer power supplies								
2	192	2237	79	I79f1	suspend ops due to wx and 2 non-functioning boomer power supplies								
3	192	2237	79	I79f1	suspend ops due to wx and 2 non-functioning boomer power supplies								
4	192	2237	79	I79f1	suspend ops due to wx and 2 non-functioning boomer power supplies								
5	192	2237			suspend ops due to wx and 2 non-functioning boomer power supplies. Fcst calls for NE winds for next several days. Heading into NOAA Norfolk to pick up boomer parts, new TSS cabl								
5	193	-			day in port at NOAA dock for boomer repairs, etc.								
5	194	1600			Depart NOAA dock. All gear repaired and ready to roll.								
5	194	2300			arrive N end of area1, deploy gear.								
1	194	2316	79	003_2316.194	sol 79 restart, N area1								
2	194	2316	79	I79f2	sol 79 restart, N area1								
3	194	2316	79	I79f2	sol 79 restart, N area1								
4	194	2316	79	I79f2	sol 79 restart, N area1								
2	195	0032	79	I79f3	file change								
1	195	0119	80	003_0119.195	sol 80, area2								
2	195	0119	80	I80f1	sol 80, area2								
3	195	0119	80	I80f1	sol 80, area2								
4	195	0119	80	I80f1	sol 80, area2								
2	195	0235	80	I80f2	file change								
1	195	0308	80	003_0119.195	eol 80								
2	195	0308	80	I80f2	eol 80								
3	195	0308	80	I80f1	eol 80								
4	195	0308	80	I80f1	eol 80								
1	195	0310	81	003_0310.195	sol 81, area3								
2	195	0310	81	I81f1	sol 81, area3								
3	195	0310	81	I81f1	sol 81, area3								
4	195	0310	81	I81f1	sol 81, area3								
5	195	0332	81	I81f1	spectacular channel in chirp								
2	195	0426	81	I81f2	file change								
1	195	0512	81	003_0310.195	eol 81								
2	195	0512	81	I81f2	eol 81								
3	195	0512	81	I81f1	eol 81								
4	195	0512	81	I81f1	eol 81								
1	195	0514	82	003_0514.195	sol 82, area 4								
2	195	0514	82	I82f1	sol 82, area 4								
3	195	0514	82	I82f1	sol 82, area 4								
4	195	0514	82	I82f1	sol 82, area 4								
2	195	0629	82	I82f2	file change								
5	195	0657	82	I82f1	nice channel in boomer								
1	195	0718	82	003_0514.195	eol 82								
2	195	0718	82	I82f2	eol 82								
3	195	0718	82	I82f1	eol 82								
4	195	0718	82	I82f1	eol 82								
1	195	0726	83	002_0726.195	sol 83, area 4								
2	195	0726	83	I83f1	sol 83, area 4								
3	195	0726	83	I83f1	sol 83, area 4								
4	195	0726	83	I83f1	sol 83, area 4								
2	195	0842	83	I83f2	file change								
1	195	0954	83	002_0726.195	eol 83, area 4								

2	195	0954	83	I83f2	eol 83, area 4								
3	195	0954	83	I83f1	eol 83, area 4								
4	195	0954	83	I83f1	eol 83, area 4								
1	195	0954	84	002_0954.195	sol 84, area3								
2	195	0954	84	I84f1	sol 84, area3								
3	195	0954	84	I84f1	sol 84, area3								
4	195	0954	84	I84f1	sol 84, area3								
2	195	1046	84	I84f1	port channel dropouts..occurred after speed increase								
2	195	1055	84	I84f1	port channel dropouts..still problems...ok in deeper water								
2	195	1110	84	I84f2	file change								
1	195	1212	84	002_0954.195	eol 84, area3								
2	195	1212	84	I84f2	eol 84, area3								
3	195	1212	84	I84f1	eol 84, area3								
4	195	1212	84	I84f1	eol 84, area3								
1	195	1217	85	002_1217.195	sol 85, area 2								
2	195	1217	85	I85f1	sol 85, area 2								
3	195	1217	85	I85f1	sol 85, area 2								
4	195	1217	85	I85f1	sol 85, area 2								
2	195	1333	85	I85f1	file change								
1	195	1425	85	002_1217.195	eol 85, area 2								
2	195	1425	85	I85f1	eol 85, area 2								
3	195	1425	85	I85f1	eol 85, area 2								
4	195	1425	85	I85f1	eol 85, area 2								
1	195	1425	86	002_1425.195	sol 86, area 1								
2	195	1425	86	I86f1	sol 86, area 1								
3	195	1425	86	I86f1	sol 86, area 1								
4	195	1425	86	I86f1	sol 86, area 1								
2	195	1541	86	I86f2	file change								
1	195	1632	86	002_1425.195	eol 86								
2	195	1632	86	I86f2	eol 86								
3	195	1632	86	I86f1	eol 86								
4	195	1632	86	I86f1	eol 86								
1	195	1637	87	001_1637.195	sol 87, area1. Last line in area1								
2	195	1637	87	I87f1	sol 87, area1. Last line in area1								
3	195	1637	87	I87f1	sol 87, area1. Last line in area1								
4	195	1637	87	I87f1	sol 87, area1. Last line in area1								
2	195	1750	87	I87f2	file change								
1	195	1844	87	001_1637.195	eol 87								
2	195	1844	87	I87f2	eol 87								
3	195	1844	87	I87f1	eol 87								
4	195	1844	87	I87f1	eol 87								
1	195	1844	88	001_1844.195	sol 88, area2. Last line in area2								
2	195	1844	88	I88f1	sol 88, area2. Last line in area2								
3	195	1844	88	I88f1	sol 88, area2. Last line in area2								
4	195	1844	88	I88f1	sol 88, area2. Last line in area2								
5	195	1947	88	I88f1	channel cuts through two apparent relatively horizontal reflectors in chirp								
1	195	2037	88	001_1844.195	eol 88								
2	195	2037	88	I88f2	eol 88								
3	195	2037	88	I88f1	eol 88								
4	195	2037	88	I88f1	eol 88								
1	195	2041	89	001_2041.195	sol 89. Last line in area3								
2	195	2041	89	I89f1	sol 89. Last line in area3								

3	195	2041	89	I89f1	sol 89. Last line in area3								
4	195	2041	89	I89f1	sol 89. Last line in area3								
2	195	2149	89	I89f1	port channel out.								
2	195	2200	89	I89f2	file change								
2	195	2201	89	I89f2	port channel back on - depper water >55ft								
1	195	2246	89	001_2041.195	eol 89								
2	195	2246	89	I89f2	eol 89								
3	195	2246	89	I89f1	eol 89								
4	195	2246	89	I89f1	eol 89								
1	195	2246	90	001_2246.195	sol 90. Last line in area4								
2	195	2246	90	I90f1	sol 90. Last line in area4								
3	195	2246	90	I90f1	sol 90. Last line in area4								
4	195	2246	90	I90f1	sol 90. Last line in area4								
5	195	2315	90	I90f1	possible lee side bedform bedding in the big sandwave in chirp.								
2	195	?	90	I90f2	file change								
1	196	0101	90	001_2246.195	eol 90								
2	196	0101	90	I90f2	eol 90								
3	196	0101	90	I90f1	eol 90								
4	196	0101	90	I90f1	eol 90								
1	196	0105	91	001_0105.196	sol 91. Start surveys in area6								
2	196	0105	91	I91f1	sol 91. Start surveys in area6								
3	196	0105	91	I91f1	sol 91. Start surveys in area6								
4	196	0105	91	I91f1	sol 91. Start surveys in area6								
2	196	0111	91	I91f2	halving ping rate (now at 0.53 sec = 800 m swath) to account for blind port channel as water depth decreases								
2	196	~0115	91	I91f3	small useless file. Do not process								
2	196	~0115	91	I91f4	file change. Ping rate 0.53 sec. (swath 800 m)								
1	196	0217	91	001_0105.196	eol 91								
2	196	0217	91	I91f4	eol 91								
3	196	0217	91	I91f1	eol 91								
4	196	0217	91	I91f1	eol 91								
1	196	0223	92	003_0222.196	sol 92. Hypack line 3 going north								
2	196	0223	92	I92f1	sol 92. Hypack line 3 going north								
3	196	0223	92	I92f1	sol 92. Hypack line 3 going north								
4	196	0223	92	I92f1	sol 92. Hypack line 3 going north								
1	196	0335	92	003_0222.196	eol 92								
2	196	0335	92	I92f1	eol 92								
3	196	0335	92	I92f1	eol 92								
4	196	0335	92	I92f1	eol 92								
1	196	0341	93	004_0341.196	sol 93. Hypack line 4 going south in area 6								
2	196	0341	93	I93f1	sol 93. Hypack line 4 going south in area 6								
3	196	0341	93	I93f1	sol 93. Hypack line 4 going south in area 6								
4	196	0341	93	I93f1	sol 93. Hypack line 4 going south in area 6								
1	196	0447	93	004_0341.196	eol 93. Hypack line 4 going south in area 6								
2	196	0447	93	I93f1	eol 93. Hypack line 4 going south in area 6								
3	196	0447	93	I93f1	eol 93. Hypack line 4 going south in area 6								
4	196	0447	93	I93f1	eol 93. Hypack line 4 going south in area 6								
1	196	0457	94	007_0457.195	sol 94. Hypack line 7 going north in area 6								
2	196	0457	94	I94f1	sol 94. Hypack line 7 going north in area 6								
3	196	0457	94	I94f1	sol 94. Hypack line 7 going north in area 6								
4	196	0457	94	I94f1	sol 94. Hypack line 7 going north in area 6								
1	196	0607	94	007_0457.195	eol 94. Hypack line 7 going north in area 6								
2	196	0607	94	I94f1	eol 94. Hypack line 7 going north in area 6								

3	196	0607	94	l94f1	eol 94. Hypack line 7 going north in area 6							
4	196	0607	94	l94f1	eol 94. Hypack line 7 going north in area 6							
1	196	0615	95	005_0615.195	sol 95. Hypack line 5 going south in area 6							
2	196	0615	95	l95f1	sol 95. Hypack line 5 going south in area 6							
3	196	0615	95	l95f1	sol 95. Hypack line 5 going south in area 6							
4	196	0615	95	l95f1	sol 95. Hypack line 5 going south in area 6							
1	196	0720	95	005_0615.195	eol 95. Hypack line 5 going south in area 6							
2	196	0720	95	l95f1	eol 95. Hypack line 5 going south in area 6							
3	196	0720	95	l95f1	eol 95. Hypack line 5 going south in area 6							
4	196	0720	95	l95f1	eol 95. Hypack line 5 going south in area 6							
1	196	0726	96	004_0726.195	sol 96. Hypack line 4 going north in area 6							
2	196	0726	96	l96f1	sol 96. Hypack line 4 going north in area 6							
3	196	0726	96	l96f1	sol 96. Hypack line 4 going north in area 6							
4	196	0726	96	l96f1	sol 96. Hypack line 4 going north in area 6							
1	196	0837	96	004_0726.195	eol 96. Hypack line 4 going north in area 6							
2	196	0837	96	l96f1	eol 96. Hypack line 4 going north in area 6							
3	196	0837	96	l96f1	eol 96. Hypack line 4 going north in area 6							
4	196	0837	96	l96f1	eol 96. Hypack line 4 going north in area 6							
1	196	0846	97	007_0846.195	sol 97. Hypack line 7 going south in area 6							
2	196	0846	97	l97f1	sol 97. Hypack line 7 going south in area 6							
3	196	0846	97	l97f1	sol 97. Hypack line 7 going south in area 6							
4	196	0846	97	l97f1	sol 97. Hypack line 7 going south in area 6							
1	196	0947	97	007_0846.195	eol 97. Hypack line 7 going south in area 6							
2	196	0947	97	l97f1	eol 97. Hypack line 7 going south in area 6							
3	196	0947	97	l97f1	eol 97. Hypack line 7 going south in area 6							
4	196	0947	97	l97f1	eol 97. Hypack line 7 going south in area 6							
1	196	0955	98	009_0955.195	sol 98. Hypack line 9 going north in area 6							
2	196	0955	98	l98f1	sol 98. Hypack line 9 going north in area 6							
3	196	0955	98	l98f1	sol 98. Hypack line 9 going north in area 6							
4	196	0955	98	l98f1	sol 98. Hypack line 9 going north in area 6							
1	196	1116	98	009_0955.195	eol 98. Hypack line 9 going north in area 6							
2	196	1116	98	l98f1	eol 98. Hypack line 9 going north in area 6							
3	196	1116	98	l98f1	eol 98. Hypack line 9 going north in area 6							
4	196	1116	98	l98f1	eol 98. Hypack line 9 going north in area 6							
1	196	1123	99	012_1123.195	sol 99. Hypack line 12 going south in area 6							
2	196	1123	99	l99f1	sol 99. Hypack line 12 going south in area 6							
3	196	1123	99	l98f1	sol 99. Hypack line 12 going south in area 6							
4	196	1123	99	l98f1	sol 99. Hypack line 12 going south in area 6							
5	196	1200	99		boat wake obvious in sidescan - crossed across the bow							
1	196	1220	99	012_1123.195	eol 99. Hypack line 12 going south in area 6							
2	196	1220	99	l99f1	eol 99. Hypack line 12 going south in area 6							
3	196	1220	99	l99f1	eol 99. Hypack line 12 going south in area 6							
4	196	1220	99	l99f1	eol 99. Hypack line 12 going south in area 6							
1	196	1226	100	011_1226.195	sol 100. Hypack line 11 going north in area 6							
2	196	1226	100	l100f1	sol 100. Hypack line 11 going north in area 6							
3	196	1226	100	l100f1	sol 100. Hypack line 11 going north in area 6							
4	196	1226	100	l100f1	sol 100. Hypack line 11 going north in area 6							
1	196	1340	100	011_1226.195	eol 100. Hypack line 11 going north in area 6							
2	196	1340	100	l100f1	eol 100. Hypack line 11 going north in area 6							
3	196	1340	100	l100f1	eol 100. Hypack line 11 going north in area 6							
4	196	1340	100	l100f1	eol 100. Hypack line 11 going north in area 6							
5	196	1345			wiring gen for grab sampling winch - fixed depth ducer tie line - jogging to next line							

1	196	1415	101	009_1415.195	sol 101. Hypack line 9 going south in area 6							
2	196	1415	101	l101f1	sol 101. Hypack line 9 going south in area 6							
3	196	1415	101	l101f1	sol 101. Hypack line 9 going south in area 6							
4	196	1415	101	l101f1	sol 101. Hypack line 9 going south in area 6							
3	196	1430	101	l101f1	seismic power source continues to hiccup on occasion - short data gaps							
1	196	1446	101	l101f1	Hypack nav dropped sync - clock - nav resynced							
1	196	1448	101	009_1448.195	continue Hypack line 9							
1	196	1522	101	009_1415.195	eol 101. Hypack line 9 going south in area 6							
2	196	1522	101	l101f1	eol 101. Hypack line 9 going south in area 6							
3	196	1522	101	l101f1	eol 101. Hypack line 9 going south in area 6							
4	196	1522	101	l101f1	eol 101. Hypack line 9 going south in area 6							
1	196	1533	102	012_1533.195	sol 102. Hypack line 12 going north in area 6							
2	196	1533	102	l102f1	sol 102. Hypack line 12 going north in area 6							
3	196	1533	102	l102f1	sol 102. Hypack line 12 going north in area 6							
4	196	1533	102	l102f1	sol 102. Hypack line 12 going north in area 6							
1	196	1649	102	012_1533.195	eol 102							
2	196	1649	102	l102f1	eol 102							
3	196	1649	102	l102f1	eol 102							
4	196	1649	102	l102f1	eol 102							
1	196	1653	103	013_1653.196	sol 103. Hypack line13 going south							
2	196	1653	103	l103f1	sol 103. Hypack line13 going south							
3	196	1653	103	l103f1	sol 103. Hypack line13 going south							
4	196	1653	103	l103f1	sol 103. Hypack line13 going south							
1	196	1656	103	013_1653.196	eol 103							
2	196	1656	103	l103f1	eol 103							
3	196	1656	103	l103f1	eol 103							
4	196	1656	103	l103f1	eol 103							
1	196	1802	104	015_1802.196	sol 104. Hypack line 15 going north							
2	196	1802	104	l104f1	sol 104. Hypack line 15 going north							
3	196	1802	104	l104f1	sol 104. Hypack line 15 going north							
4	196	1802	104	l104f1	sol 104. Hypack line 15 going north							
1	196	1909	104	015_1802.196	eol 104							
2	196	1909	104	l104f1	eol 104							
3	196	1909	104	l104f1	eol 104							
4	196	1909	104	l104f1	eol 104							
1	196	1918	105	018_1918.196	sol 105. Hypack line 18 going south							
2	196	1918	105	l105f1	sol 105. Hypack line 18 going south							
3	196	1918	105	l105f1	sol 105. Hypack line 18 going south							
4	196	1918	105	l105f1	sol 105. Hypack line 18 going south							
1	196	2021	105	018_1918.196	eol 105							
2	196	2021	105	l105f1	eol 105							
3	196	2021	105	l105f1	eol 105							
4	196	2021	105	l105f1	eol 105							
1	196	2026	106	017_2026.196	sol 106. Hypack line 17 going north							
2	196	2026	106	l106f1	sol 106. Hypack line 17 going north							
3	196	2026	106	l106f1	sol 106. Hypack line 17 going north							
4	196	2026	106	l106f1	sol 106. Hypack line 17 going north							
1	196	2133	106	017_2026.196	eol 106							
2	196	2133	106	l106f1	eol 106							
3	196	2133	106	l106f1	eol 106							
4	196	2133	106	l106f1	eol 106							
1	196	2138	107	015_2138.196	sol 107. Hypack line 15 going south							

2	196	2138	107	I107f1	sol 107. Hypack line 15 going south								
3	196	2138	107	I107f1	sol 107. Hypack line 15 going south								
4	196	2138	107	I107f1	sol 107. Hypack line 15 going south								
1	196	2243	107	015_2138.196	eol 107								
2	196	2243	107	I107f1	eol 107								
3	196	2243	107	I107f1	eol 107								
4	196	2243	107	I107f1	eol 107								
1	196	2253	108	018_2253.196	sol 108. Hypack line 18 going north								
2	196	2253	108	I108f1	sol 108. Hypack line 18 going north								
3	196	2253	108	I108f1	sol 108. Hypack line 18 going north								
4	196	2253	108	I108f1	sol 108. Hypack line 18 going north								
1	196	2215	108	018_2253.196	interlude to swap boomer power supplies								
2	196	2215	108	I108f1	interlude to swap boomer power supplies								
3	196	2215	108	I108f1	interlude to swap boomer power supplies								
4	196	2215	108	I108f1	interlude to swap boomer power supplies								
1	196	2227	108	018_2253.196	resume line								
2	196	2227	108	I108f1	resume line								
3	196	2227	108	I108f2	resume line. Geoacoustics output 175 J								
4	196	2227	108	I108f1	resume line								
1	197	0010	108	018_2253.196	eol 108								
2	197	0010	108	I108f1	eol 108								
3	197	0010	108	I108f2	eol 108								
4	197	0010	108	I108f1	eol 108								
1	197	0019	109	020_0019.197	sol 109. Hypack line 20 going south								
2	197	0019	109	I109f1	sol 109. Hypack line 20 going south								
3	197	0019	109	I109f1	sol 109. Hypack line 20 going south								
4	197	0019	109	I109f1	sol 109. Hypack line 20 going south								
3	197	0042	109	I109f2	change power to 280 J (was 175 J)								
1	197	0122	109	020_0019.197	eol 109								
2	197	0122	109	I109f1	eol 109								
3	197	0122	109	I109f2	eol 109								
4	197	0122	109	I109f1	eol 109								
1	197	0134	110	023_0134.197	sol 110. Hypack line 23 going north								
2	197	0134	110	I110f1	sol 110. Hypack line 23 going north								
3	197	0134	110	I110f1	sol 110. Hypack line 23 going north								
4	197	0134	110	I110f1	sol 110. Hypack line 23 going north								
5	197	0158	110	I110f1	isolated channel in chirp. Possible 8ka coring target? Right depth.....								
1	197	0243	110	023_0134.197	eol 110								
2	197	0243	110	I110f1	eol 110								
3	197	0243	110	I110f1	eol 110								
4	197	0243	110	I110f1	eol 110								
1	197	0249	111	021_0249.197	sol 111. Hypack line 21 going south								
2	197	0249	111	I111f1	sol 111. Hypack line 21 going south								
3	197	0249	111	I111f1	sol 111. Hypack line 21 going south								
4	197	0249	111	I111f1	sol 111. Hypack line 21 going south								
1	197	0354	111	021_0249.197	eol 111								
2	197	0354	111	I111f1	eol 111								
3	197	0354	111	I111f1	eol 111								
4	197	0354	111	I111f1	eol 111								
1	197	0402	112	022_0402.197	sol 112 Hypack line 22 going north								
2	197	0402	112	I112f1	sol 112. Chirp rate now 0.27 sec (400 m swath)								
3	197	0402	112	I112f1	sol 112								

4	197	0402	112	l112f1	sol 112	
1	197	0517	112	022_0402.197	eol 112 Hypack line 22 going north	
2	197	0517	112	l112f1	eol 112. Chirp rate now 0.27 sec (400 m swath)	
3	197	0517	112	l112f1	eol 112	
4	197	0517	112	l112f1	eol 112	
1	197	0524	113	024_0524.197	sol 113 Hypack line 24 going south	
2	197	0524	113	l113f1	sol 113 Hypack line 24 going south	
3	197	0524	113	l113f1	sol 113 Hypack line 24 going south	
4	197	0524	113	l113f1	sol 113 Hypack line 24 going south	
5	197	0600	113		line may deviate to seaward as we skirt along the shoal area near the beach!!	
1	197	0641	113	024_0524.197	eol 113 Hypack line 24 going south	
2	197	0641	113	l113f1	eol 113 Hypack line 24 going south	
3	197	0641	113	l113f1	eol 113 Hypack line 24 going south	
4	197	0641	113	l113f1	eol 113 Hypack line 24 going south	
1	197	0658	114	001_0658.197	sol 114 Hypack tie line 1 going east in area 6	
2	197	0658	114	l114f1	sol 114 Hypack tie line 1 going east in area 6	
3	197	0658	114	l114f1	sol 114 Hypack tie line 1 going east in area 6	
4	197	0658	114	l114f1	sol 114 Hypack tie line 1 going east in area 6	
1	197	0754	114	001_0658.197	eol 114 Hypack tie line 1 going east in area 6	
2	197	0754	114	l114f1	eol 114 Hypack tie line 1 going east in area 6	
3	197	0754	114	l114f1	eol 114 Hypack tie line 1 going east in area 6	
4	197	0754	114	l114f1	eol 114 Hypack tie line 1 going east in area 6	
1	197	0755	115	001_0755.197	sol 115 Hypack tie line 1 going north in area 6	
2	197	0755	115	l115f1	sol 115 Hypack tie line 1 going north in area 6	
3	197	0755	115	l115f1	sol 115 Hypack tie line 1 going north in area 6	
4	197	0755	115	l115f1	sol 115 Hypack tie line 1 going north in area 6, logged as l15f1?? Just a tie line!	
1	197	0823	115	001_0755.197	sol 115 Hypack tie line 1 going north in area 6	
2	197	0823	115	l115f1	sol 115 Hypack tie line 1 going north in area 6	
3	197	0823	115	l115f1	sol 115 Hypack tie line 1 going north in area 6	
4	197	0823	115	l115f1	sol 115 Hypack tie line 1 going north in area 6, logged as l15f1?? Just a tie line!	
1	197	0824	116	001_0826.197	sol 116 Hypack tie line 1 going west in area 6	
2	197	0824	116	l116f1	sol 116 Hypack tie line 1 going west in area 6	
3	197	0824	116	l116f1	sol 116 Hypack tie line 1 going west in area 6	
4	197	0824	116	l116f1	sol 116 Hypack tie line 1 going west in area 6	
1	197	0925	116	001_0826.197	eol 116 Hypack tie line 1 going west in area 6, could this be the last survey line?? Yesss!!!	
2	197	0925	116	l116f1	eol 116 Hypack tie line 1 going west in area 6	
3	197	0925	116	l116f1	eol 116 Hypack tie line 1 going west in area 6	
4	197	0925	116	l116f1	eol 116 Hypack tie line 1 going west in area 6	
1	197	0925	116	-	end of geophysics for atsv01005 off North Carolina	
2	197	0925	116	-	end of geophysics for atsv01005 off North Carolina	
3	197	0925	116	-	end of geophysics for atsv01005 off North Carolina	
4	197	0925	116	-	end of geophysics for atsv01005 off North Carolina	
5	197	0926			preparing for ground truthing sampling with van-veen grab - jogging on cse 020	
5	197	0930			Barry checking nav gear - sample rates..connections..etc	
5	197	0955			preparing to pull gear	
5	197	1025			gear pulled, transiting to first grab sample site.	
	197				begin grab sampling	
				Sample ID	**Time UTC (hhmmss)**	**Brief Sample Description**
	197	1337		gs-1	13:37:25	
	197	1337		gs-1a	mercenaria valve	
	197	1350		gs-2	13:50:34	

	197	1357		gs-3	13:57:45							
	197	1408		gs-4	14:08:55							
	197	1414		gs-5	14:14:16							
	197	1420		gs-6	14:20:20	shell frags over clay						
	197	1436		gs-7	14:36:40	fine sand, gray						
	197	1453		gs-8	lost grab sampler - wire broke!		360506.118	754006.34				
	197	1600			picked up loaner sampler - Duck Pier							
	197	1605			proceeding to next sample site							
	197	1700			grapple searching for lost sampler							
				gs-8	183040	vf gray/black sand; sm. Merc. Valve in bag 8a						
				gs-9	184145	vf gray/black sand						
				gs-10	184907	c-vc tob and gb gravel and shell hash						
				gs-11	185630	vf gray/black sand						
				gs-12	190102	med tan sd						
				gs-13	190654	c-vc tob and gb sand, gravel and shell hash; gb enbarnacled merc. Valve in gs-13a						
				gs-14	191213	c-vc tob and gb sand, gravel and shell hash						
				gs-15	192108	predom gb vc/pea gravel						
				gs-16	192635	vf gray olive sand						
				gs-17	193433	vf gray olive sand						
				gs-18	193910	f-c tob sd and shell frags						
				gs-19	194330	f-c tob sd and shell frags						
				gs-20	195228	f-vc gb sd and shells, lots oyster frags						
				gs-21	195822	f light gray sd						
				gs-22	200702	vf gray olive sd						
				gs-23	202535	orange merc. Stuck in grab. repeat						
				gs-23	202725	tob pea gravel over gray mud, no obvious organics						
				gs-24	203800	failed trigger						
				gs-24	203925	med tob sd						
				gs-25	204648	med tob sd with tob lg tob gravel						
				gs-26	205352	merc stuck in grab. Repeat						
				gs-26	205556	failed again						
				gs-26	205740	predom gray, poorly sorted muddy gravel with abundant shell frags. Separate bag with several mercs. And oyster valves						
				gs-27	210552	tan fs						
				gs-28	211235	tan fs						
				gs-29	212449	failed. Repeat						
				gs-29	212645	failed. Repeat						
				gs-29	212835	gray fine muddy sd, wrong facies. Try again						
				gs-29a	213512	muddy hash. Merc frags in separate bag gs-29a-2						
				gs-30	214037	failed						
				gs-30	214321	tan and gray med sd						
				gs-31	214804	olive gray muddy vfs						
				gs-32	220533	dk gray fs						
				gs-33	222130	failed						
				gs-33	222742	muddy gb shell hash and some m-c sd						
				gs-34	224038	m-vc tob gravel and some shells						
				gs-35	224826	m-c tob sd						
				gs-36	230300	failed						
				gs-36	230418	tan-gray fs						
				gs-37	232957	tob and gb shell hash and gravel with crs sd						
				gs-38	235010	dark olive gray vfs						
				gs-39	000056	dk gray muddy vfs						
				gs-40	001109	m-c tob sd						

				gs-41	002734	failed trigger							
				gs-41	002900	poorly sorted m-vc gray (? It's dark out) sd							
				gs-42	005138	gray vfs							
				gs-43	010635	muddy gray shell hash, lots diopatra							
				gs-44	012040	med gray(?) sd							
				gs-45	013142	med tan sd							
				gs-46	014142	tan-gray fs							
				gs-47	015309	failed trigger							
				gs-47	015438	c-vc tan sd w minor gravel							
				gs-48	020535	very poorly sorted tob/gb vfs-gravel. Merc in separate bag							
				gs-49	021358	muddy tan vfs							
				gs-50	022400	failed trigger							
				gs-50	022515	tan-gray fs							
				gs-51	024216	gray vfs, some mud, diopatra							
				gs-52	024740	gray vfs							
				gs-53	025732	poorly sorted fs-vc and lots gravel and shell valves, tan/gray							
				gs-54	030712	failed trigger							
				gs-54	030825	tan med sd							
				gs-55	031923	dk gray muddy vfs							
				gs-56	032914	chunky mud							
				gs-57	033855	gb gravel w some f-m sd							
				gs-58	035503	gray vf-f sd							
				gs-59	040042	muddy shell hash, some gravel, lots diopatra							
				gs-60	040935	muddy-sand shell hash							
				gs-61	041659	gray, mud-v.fine sand							
				gs-62	043144	fine sand w/some shell hash							
				gs-63	044709	clean fine-med sand							
				gs-64	045434	no trigger							
				gs-64	045542	clean fine-med sand - wellsorted							
				gs-65	050408	muddy fine sand							
				gs-66	051411	v.fine sand							
				gs-67	052305	muddy silt							
				gs-68	053527	clean fine-med sand - well sorted							
				gs-69	054618	no trigger							
				gs-69	054710	clean fine-med sand - well sorted							
				gs-70	055839	mod sorted fine sand w/shell hash							
				gs-71	060326	compacted' mud							
				gs-72	060756	fairly well sorted fine sand (slight mud component)							
				gs-73	061214	compacted' mud							
				gs-74	063142	shell hash							
				gs-75	064044	well-sorted, clean fine sand							
				gs-76	070042	well sorted, clean med sand							
				gs-77	071752	well sorted silt							
				gs-78	073131	v. fine sand - well sorted							
				gs-79	073543	well sorted silt							
				gs-80	073543	shells - quahog + oyster							
				gs-80	073845	coarse sand w/shell hash							
				gs-81	074705	well sorted medium sand (clean)							
				gs-82	080125	coarse sand/gravellylag							
				gs-83	082100	coarse sand/gravelly lag							
				gs-84	082714	well-sorted, fine sand							
				gs-85	084230	gravelly lag w/fine sand matrix							

				gs-86	085347	well sorted silt							
				gs-87	090331	coarse sand w/muddy matrix							
				gs-88	091050	med - crs sand							
				gs-89	091736	poorly sorted crs sand w/shell hash							
				gs-90	093321	gravel/shell hash							
				gs-91	093806	no trigger							
				gs-91	093934	no trigger							
				gs-91	094317	well sorted fine sand							
				gs-92	095841	well sorted fine sand							
				gs-93	100439	quohog shell - old one!							
				gs-93	100439	shell hash							
				gs-94	101345	fine sand							
				gs-95	102425	fine sand							
				gs-96	103313	fine sand							
				gs-97	104003	well sorted medium sand (clean)							
				gs-98	104940	fine sand							
				gs-99	105719	well sorted fine/med sand							
				gs-100	111120	coarse sand/shell hash							
				gs-101	111303	no trigger							
				gs-101	112125	coarse sand							
				gs-102	113300	mud							
				gs-103	114838	coarse sand/shell hash							
				gs-104	120150	well sorted medium sand (clean)							
				gs-105	121350	well sorted fine/med sand							
				gs-106	122040	very well sorted fine sand							
				gs-107	123016	very well sorted fine sand							
				gs-108	124719	well sorted fine/med sand							
				gs-109	125300	very well sorted fine sand							
				gs-110	010806	very well sorted med sand							
				gs-111	011909	black & dark grey mud - anoxic							
				gs-112	013046	no trigger							
				gs-112	013139	v. well sorted fine sand							
				gs-113	014635	silt							
				gs-114	015609	silt							
				gs-115	020823	silty matrix w/shell fragments, worm tube, too							
				gs-116	021537	silty matrix w/large shell frags							
				gs-117	023045	silty matrix w/shell frags							
				gs-118	023747	med sand w/shell frags & mud component							
				gs-119	024556	muddy,silty,sandy matrix w/shell frags - large							
						merc valve placed in 2nd bag for this sample site							
5	198	1450			END GRAB SAMPLING ATSV01005								
5	198	1500			begin transit to Wilmington								