

### Pump Cast: Stn 3

Dates Y/M/D and times in local time (and GMT)

GMT=LCL+ 5

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008635	38608.4	38608.4	39691.0	1082.6
	19008636	29922.6	29922.6	30412.1	489.5
	19008637	70050.8	70050.9	71632.1	1581.2
2	19008629	60241.0	60241.0	61249.5	1008.5
	19008630	25809.6	25809.6	26356.7	547.1
	19008631	85585.7	85585.7	87137.8	1552.1
3	19008656	78742.9	78743.0	79145.3	402.3
	19008657	41886.1	41886.0	42047.4	161.4
	19008658	127823.1	127823.0	128395.1	572.1
4	19008638	27398.4	27398.4	28205.0	806.6
	19008639	26762.3	26762.3	27023.5	261.2
	19008640	55191.5	55191.5	56266.3	1074.8
5	20007741	45536.5	45536.5	45602.8	66.3
	20007742	37393.0	37393.0	37667.0	274.0
	20007743	83951.7	83951.7	84324.5	372.8
6	20008125	18408.5	Not Depl	18408.5	0.0
	20008126	25363.8	Not Depl	25363.8	0.0
	20008127	44858.0	Not Depl	44858.0	0.0
7	20007747	24458.0	Not Depl	24458.0	0.0
	20007748	12025.0	Not Depl	12025.0	0.0
	20007749	44450.7	Not Depl	44450.7	0.0
8	20007750	67860.9	Not Depl	67860.9	0.0
	20008101	43520.3	Not Depl	43520.3	0.0
	20008102	119829.5	Not Depl	119829.5	0.0
9					
10					
11					
12					

Date 2013/11/01 (2013-11-01)  
 Event 4047  
 Station 3  
 Cast 4  
 Water depth 180 m  
 Delay duration 00:45:00  
 Pump duration 04:00:00  
 Trigger time 13:10 (18:10)  
 Pumps on 13:55 (18:55)  
 Pumps off 17:55 (22:55)  
 First pump in water 13:16 (18:16)  
 Last pump in water 13:30 (18:30)  
 Time at target depth 13:35 (18:35)  
 Water below pinger 8.3m  
 Messenger drop NA  
 Recovery begins 18:05 (23:05)  
 All aboard 18:25 (23:25)

**Post deployment download information**

Pump ID	Nisk	Nom depth	GT#	Low (rest) voltage	Error msg	Vol pumped (l)
CTD		170	NA			
1		170	2326	25.5 (31.7)		1615
2		90	2327	30.0 (34.6)		1647
3		65	2328	26.8 (32.2)	Stopped by user	592
4		35	2329	25.3 (31.6)		1380
5		20	2330	25.9 (31.7)		946
6	Not depl.		NA			Not depl
7	Not depl.		NA			Not depl
8	Not depl.		NA			Not depl

**Notes**

Shallow shelf station with no notable BNL, two fluorescence maxima, and OMZ.  
 MAPRs on Pumps 1, 2 & 3. DBs on Pump 1 (in tupperwares).  
 Pump 1 shackled to bottom of wire with CTD/pinger attached below the pump (same nominal depth). Active pump 1 heads in DB "angel wing" positions with tupperwares at center positions, nearer the shackle.  
 Only pumps 1-5 were deployed.  
 Actual final wire-out: 158m, with "8.3m" between pinger and bottom (difficult to assess precisely due to ship's Knudsen software)  
 Pump 3: stopped by user error with 572L total pumped