

Pump Cast: Super Stn 1 MID

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008635	35441.6	35441.7	36665.0	1223.3
	19008636	28758.2	28758.2	29210.9	452.7
	19008637	65660.5	65660.7	67357.1	1696.4
2	19008629	57141.4	57141.4	58355.3	1213.9
	19008630	24604.2	24604.2	25010.7	406.5
	19008631	81283.1	81283.3	82900.8	1617.5
3	19008656	75792.3	75792.3	76984.2	1191.9
	19008657	40774.3	40774.4	41166.8	392.4
	19008658	123688.3	123688.3	125297.0	1608.7
4	19008638	24418.0	24418.1	25627.5	1209.4
	19008639	25633.5	25633.6	26059.5	425.9
	19008640	51064.8	51065.0	52707.1	1642.1
5	20007741	43501.0	43501.0	44236.1	735.1
	20007742	36176.6	36176.6	36931.2	754.6
	20007743	79472.9	79472.9	80964.5	1491.6
6	20008125	15985.6	15985.6	17240.2	1254.6
	20008126	24483.3	24483.3	24973.2	489.9
	20008127	41556.0	41556.0	43297.9	1741.9
7	20007747	22216.5	22216.4	23408.0	1191.6
	20007748	11202.3	11202.3	11649.2	446.9
	20007749	41396.5	41396.9	43033.2	1636.3
8	20007750	65722.4	65722.4	66814.0	1091.6
	20008101	42728.9	42728.9	43172.4	443.5
	20008102	116832.0	116832.0	118379.0	1547.0
9					
10					
11					
12					

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

GMT=LCL+ 5

Date 2013-10-29 (2013-10-29/30)

Event 4021

Station 1

Cast 9

Water depth 5500

Delay duration 02:20:00

Pump duration 04:00:00

Trigger time 17:11 (22:11)

Pumps on 19:31 (00:31)

Pumps off 23:31 (04:31)

First pump in water 17:15 (22:11)

Last pump in water 19:16 (00:16)

Time at target depth 19:26 (00:26)

Water below pinger Pinger not used

Messenger drop 21:31 (02:31)

Recovery begins 23:45 (04:45)

All aboard 01:20 (06:20)

Notes

MAPR sensors on Pumps 6, 7, and 8; DBs on Pump 1
 Niskin 2 (2800m) damaged during recovery; depth resampled next cast
 Pump 1 deployed via countdown timer (trigger not working)
 An extra niskin (Niskin 8) was deployed at 450m for Erin
 Pulled 9 GT numbers (extra for Niskin 8)
 Pump 8 has Niskin 9 associated with it
 Final wire out: 3620m
 A petrel hit Spike in the face during recovery of Pump 2
 Niskin 2 dropped (still attached to wire) during recovery. Broken nipple.
 Sample may have exchanged w/surface. Re-sampled this depth with a solo niskin on the deep cast.

Post deployment download information						
Pump ID	Nisk	Nom depth	GT#	Low voltage	Error msg	Vol pumped (l)
CTD		3620	NA			
1		3600	2162	31.3		
2		2800	2163	30.3		
3		2400	2164	30.3		
4		1600	2165	30.7		
5		1200	2166	29.4		
6		800	2167	27.3		
7		550	2168	30.7		1039.02
NONE	8	450	2169			
	8	300	2170	30.5		582.5