

### Pump Cast: Super Station 36 Mid Cast

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008653	65290.7	65290.7	66303.2	1012.5
	21973472	14608.8	14608.8	14942.6	333.8
	19008655	95595.3	95595.4	96948.2	1352.9
2	19008629	105060.4	105060.4	106204.5	1144.1
	19008630	42555.5	42555.5	42936.7	381.2
	19008631	147472.2	147472.1	148996.4	1524.3
3	19008656	119919.6	119919.5	121082.9	1163.4
	19008657	56952.4	56952.5	57365.1	412.6
	19008658	186020.4	186020.5	187588.0	1567.5
4	19008638	69706.2	69706.2	70811.2	1105.0
	19008639	42288.8	42288.9	42681.7	392.8
	19008640	113434.6	113434.5	114943.5	1509.0
5	20007741	86318.2	86318.1	87438.3	1120.2
	20007742	56924.3	56924.3	57341.9	417.6
	20007743	144725.3	144725.2	146256.2	1531.0
6	20008125	59383.5	59383.5	60539.7	1156.2
	20008126	45229.6	45229.6	45691.3	461.7
	20008127	105981.9	105982.0	107598.9	1616.9
7	20008095	46945.3	46945.4	47973.4	1028.0
	20008096	26238.0	26238.0	26634.8	396.8
	20008097	72769.8	72769.9	74197.0	1427.1
8	20007747	62392.9	62393.0	63403.1	1010.1
	20007748	27337.6	27337.6	27767.4	429.8
	20007749	97918.2	97918.3	99379.4	1461.1
9					
10					
11					
12					

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

GMT=LCL+ 10

Date 2013/12/17  
 Event 4471  
 Station 36  
 Cast 12  
 Water depth 5136m  
 Delay duration 02:00:00  
 Pump duration 04:00:00  
 Trigger time 05:36 (15:36)  
 Pumps on 07:36 (17:36)  
 Pumps off 11:36 (21:36)  
 CTD/first pump in water 05:33 (15:33)  
 Last pump in water 06:32 (16:32)  
 Time at target depth 07:04 (17:04)  
 Water below pinger No pinger.  
 Messenger drop 09:40 (19:40)  
 Recovery begins 11:40 (21:40)  
 All aboard 13:10 (23:10)

**Notes**

CTD to be deployed  
 MAPRs on Pump 4 and Pump 8. DBs on Pump 3.  
 2 hrs delay  
 Programmed Pump # 3,6,8  
 2000m depth not part of original cast plan. Should have been 1000m for overlap (damn!). Overlap depth at 2400m still valid.

Post deployment download information						
Pump ID	Nisk	Nom depth	GT#	Low (rest) voltage	Error msg	Vol pumped (l)
CTD		2750	NA			
1	1	2400	10418	27.1 (32.5)		1647
2	2	2300	10419	24.8 (30.7)		1605
3	3	2200	10420	27.1 (32.5)		1647
4	4	2100	10421	25.4 (31.1)		1625
5	5	2000	10422	24.4 (30.2)		1602
6	6	1750	10423	26.8 (32.3)		1647
7	7	1500	10424	23.9 (30.9)		1422
8	8	1250	10425	26.5 (32.4)		1615