

Pump Cast: Station 23 Deep Cast

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008653	49992.4	49992.3	50997.3	1005.0
	21973472	9751.7	9751.7	10082.1	330.4
	19008655	74898.6	74898.6	76248.6	1350.0
2	19008629	87435.5	87435.5	88584.2	1148.7
	19008630	36504.5	36504.5	36895.4	390.9
	19008631	123790.3	123790.4	125330.2	1539.8
3	19008656	104545.0	104545.1	105673.3	1128.2
	19008657	51074.9	51074.9	51472.3	397.4
	19008658	163923.5	163923.6	165441.4	1517.8
4	19008638	54716.0	54716.0	55885.3	1169.3
	19008639	36903.5	36903.6	37283.1	379.5
	19008640	92916.3	92916.6	94476.8	1560.2
5	20007741	69473.0	69473.1	70609.7	1136.6
	20007742	50308.5	50308.6	50724.6	416.0
	20007743	120853.7	120853.7	122402.0	1548.3
6	20008125	42717.6	42717.7	43905.3	1187.6
	20008126	37982.1	37982.2	38424.5	442.3
	20008127	81845.3	81845.3	83474.2	1628.9
7	20007747	47617.2	47617.3	48729.5	1112.2
	20007748	21141.0	21141.0	21535.6	394.6
	20007749	76837.3	76837.3	78344.8	1507.5
8	20007744	52076.2	52076.3	53285.2	1208.9
	20007745	27649.7	27649.7	28066.5	416.8
	20007746	87894.3	87895.3	89520.0	1624.7
9					
10					
11					
12					

Dates Y/M/D and times in local time (and GMT)
 GMT=LCL+ 8
 Date 2013/11/28 to 29
 Event 4300
 Station 23
 Cast 8
 Water depth 3411
 Delay duration 02:20:00
 Pump duration 04:00:00
 Trigger time 21:52 (05:52)
 Pumps on 00:12 (08:12)
 Pumps off 04:12 (12:12)
 CTD/first pump in water 21:52 (05:52)
 Last pump in water 23:25 (07:25)
 Time at target depth 23:47 (07:47)
 Water below pinger ~17m
 Messenger drop 02:12 (10:12)
 Recovery begins 04:15 (12:15)
 All aboard 06:03 (14:03)

Post deployment download information

Pump ID	Nisk	Nom depth	GT#	Low (rest) voltage	Error msg	Vol pumped (l)
CTD		3370	NA			
1	1	3350	9061	26.0(32.7)		1647
2	2	3300	9062	28.9(34.7)		1647
3	3	3000	9063	26.7(34.2)		1647
4	4	2800	9064	27.0(33.6)		1647
5	5	2450	9065	26.7(33.1)		1647
6	6	2400	9066	26.0(32.8)		1647
7	7	2200	9067	27.3(34.8)		1646
8	8	750	9068	27.3(34.1)		1646
NA	9	2000	9060	NA		NA

Notes

MAPRs on Pumps 4 and 8. DBs on Pump 2. (Should have been on 3.)
 An extra niskin (#9) was deployed at 2000m for Spike/Café Th counter efficiency samples.