

Pump Cast: Super Station 18 Deep Cast

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

GMT=LCL+ 7

Date 2013/11/20 to 21

Event 4234

Station 18

Cast 3

Water depth 2644m

Delay duration 02:15:00

Pump duration 04:00:00

Trigger time 19:42 (02:42)

Pumps on 21:57 (04:57)

Pumps off 01:57 (08:57)

CTD/first pump in water 19:42 (02:42)

Last pump in water 20:22 (03:22)

Time at target depth 21:20 (04:20)

Water below pinger ~8m

Messenger drop 23:40 (06:40)

Recovery begins 02:00 (09:00)

All aboard 03:31 (10:31)

Post deployment download information

Pump ID	Flow S/N	Prev. End	Start (l)	End (l)	Calc. Diff
1	19008653	42376.7	42376.8	43381.7	1004.9
	21973472	7271.5	7271.5	7608.3	336.8
	19008655	64765.0	64765.0	66114.9	1349.9
2	19008629	78532.9	78532.8	79691.9	1159.1
	19008630	32835.5	32835.5	33254.0	418.5
	19008631	110925.6	110925.5	112507.1	1581.6
3	19008656	95874.8	95874.8	97011.7	1136.9
	19008657	47912.5	47912.4	48344.1	431.7
	19008658	152125.0	152125.0	153688.5	1563.5
4	19008638	45457.1	45457.1	46618.5	1161.4
	19008639	33488.2	33488.1	33882.7	394.6
	19008640	80111.4	80111.4	81682.0	1570.6
5	20007741	60716.9	60716.9	61778.8	1061.9
	20007742	46233.1	46233.0	46759.7	526.7
	20007743	107972.1	107972.1	109559.7	1587.6
6	20008125	34968.6	34968.6	36177.3	1208.7
	20008126	33192.0	33192.0	33616.6	424.6
	20008127	69260.2	69260.2	70898.2	1638.0
7	20007747	39489.5	39489.5	40601.9	1112.4
	20007748	17962.5	17962.5	18373.8	411.3
	20007749	65467.3	65467.4	66993.4	1526.0
8	20007750	81820.5	81820.5	82919.0	1098.5
	20008101	48767.0	48767.1	49130.4	363.3
	20008102	139143.0	139143.1	140620.1	1477.0
9					
10					
11					
12					

Notes

Hydrothermal plume station. ~50m pump spacing up to 2300m
 MAPRs set to sample every 10 seconds.
 MAPR 61 on Pump 1. MAPR 62 on Pump 3. MAPR 63 on Pump 5
 DBs on Pump 1
 Final payout: as planned
 Pumps programed for shallow cast

Pump ID	Nisk	Nom depth	GT#	Low (rest) voltage	Error msg	Vol pumped (l)
CTD		2625	NA			
1	1	2610	8434	25.7(31.2)		1626
2	2	2550	8435	27.2(32.5)		1647
3	3	2500	8436	25.5(30.6)		1630
4	4	2450	8437	26.7(31.6)		1647
5	5	2400	8438	26.4(31.1)		1647
6	6	2350	8439	28.1(33.1)		1647
7	7	2300	8440	30.0(34.5)		1647
8	8	2200	8441	25.5(31.6)		1561