

CTD_S_Basic

NdPath

CAST 29 STA1

Truse SWINGS 2021

Ship: N/O Marion Dufresne

STATION	11
CAST	28
DEPTH	

DATE: 24/01/21 Secretary: Kélice
 SAMPLING START (GMT): 22:23h40
 SAMPLING END (GMT): 25/01/21 @

ANTICIPATED				DOSE		Sampling: ORO Team										Sampling: Users												
Bottle TARGET	Optimized	REAL	Spin time	Oxygen	Flask	TP	DIC-AIR	130C	180C	Salinity	N/25	NH4-300	NO3 test	DON test	POC/PON	MPIC	Chl-a-200	FRAP	OMC (3 de CTC)	MIR	Cal-Sp-1500	Bt at 2000 m	Md-300 et F	RADIUM	MIB	Bottle		
VOL (L)								1.5	0.25	0.1	0.35	0.2	0.15	0.1	2.5	2	2.5	0.1	10	0.1	0.7	2	2.5	4	10	10.9	12.8	VOL (L)
1	Bottom-30	5500	5514	5534	1														X	.					X	.	1	
2	Bottom-30	5000	5008	5111															X	.					X	.	2	
3	4200	5000	5078	5111															X	.					X	.	3	
4	4200	4500	4501	4558															X	.					X	.	4	
5	4200	4500	4500	4558															X	.					X	.	5	
6	4000	4000	4068	4026															X	.					X	.	6	
7	4000	4000	4068	4026															X	.					X	.	7	
8	3200	3500	3558	3513															X	.					X	.	8	
9	3200	3500	3558	3513															X	.					X	.	9	
10	2500	3000	3049	3003															X	.					X	.	10	
11	2500	3000	3049	3003															X	.					X	.	11	
12	2500	3000	3049	3003															X	.					X	.	12	
13	2000	2000	2000	2000															X	.					X	.	13	
14	2000	2000	2000	2000															X	.					X	.	14	
15	1500	1550	1563	1553															X	.					X	.	15	
16	1500	1550	1563	1553															X	.					X	.	16	
17	1000	1000	1010	1001															X	.					X	.	17	
18	800	1000	1010	1001															X	.					X	.	18	
19	800	600	603	600															X	.					X	.	19	
20	250	250	250	246															X	.					X	.	20	
21	250	250	250	246															X	.					X	.	21	
24	30	30	29	25															X	.					X	.	24	

Roberts: 4 hrs durs
-2

Ingrid =

Onic: ~~XXXX~~ sur 11 et 12
 et Pao Kariehi Ab. su 1, 12

Station: **SWG_11_030_P**
Bottom Depth: 4900 Fond très variable

Lat: 39°48.048 °S
Long: 36°21.162 °E

Cast TM

ISP order	clamp time (min)	cable speed (m s ⁻¹)	cable time (min)	total ship time (min)	Longueur câble (m)	Target depth (m)	True depth (m)	ISP name	Filter Holder	Filter Type	Initial Volume (m ³)	Final Volume (m ³)	V filtered (L)	FP	L-E	H	IO	HP + NL	DC	M. Satio	CJ	Comment
1	5	0.8	0.1	5.1	-7	4870		ISPCa 2	ML1	SUPOR	10.169	11.074	905					X			X	
2	5	0.8	0.4	10.5	12	4850		PIS009	HM7	QMA Hg	66.663	67.727	1064		X							
3	5	0.8	17.7	33.3	662	4000		PIS007 + TLOG	HM6	SUPOR	5.260	6.394	1134					X	X		X	
4	5	0.8	20.8	59.1	1862	3000		ISPCa 7	ML2	SUPOR	47.214	48.095	881					X	X		X	
5	5	0.8	30.2	94.3	3312	1550		PIS010	HM8	SUPOR	92.351	93.540	1189					X	X		X	
6	5	0.8	11.5	110.8	3862	1000		ISPCa 6	ML3	SUPOR	28.646	29.784	1138					X	X			
7	5	0.8	0.4	116.2	3862	980		ISPCa 3	HM2	P1/P2/QMA	23.221	24.482	1261	X	X							
13	5	0.8	12.1	133.3	4462	400		PIS020	FH1	SUPOR	2.639	3.1571	518.1					X	X		X	
									FH2	P1/P2/QMA	2.8944	3.8941	999.7	X	X							
									EXH		5.3105	6.8193	1500.8									
									HM4	P1/P2/QMA	74.580	75.980	1400	X	X							
9	5	0.8	4.2	142.4	4662	200		PIS012 + TLOG	HM1	P1/P2/QMA	44.495	45.848	1353	X	X							
10	5	0.8	1.0	148.5	4712	150		ISPCa 4	HM3	P1/P2/QMA	72.426	73.675	1249	X	X							
11	5	0.8	1.0	154.5	4762	100		PIS011	FH1	SUPOR	2.066	2.4165	350.5					X	X		X	
12	5	0.8	0.6	160.1	4792	70		PIS021	FH2	P1/P2/QMA	2.6211	3.5093	888.2	X	X							
									EXH		4.531	5.7703	1239.3									
13	5	0.8	19.8	164.9	4832	30		PIS013	HM5	P1/P2/QMA	2.622	3.4286	807.6	X	X			X				
Total (min)	65		119.9		4870	Longueur totale file																
Total (heure)	1,08333																					

Remarques: Hauteur de la bordée: 8 m

Date	Onboard time	TU
Deployment start time	24/01/2021 03:45	00:45
Pump start date:	24/01/2021 06:00	03:00
Pump end date:	24/01/2021 09:00	06:00
Pump onboard:	24/01/2021 11:15	08:15

Total deployment (min)	185
Total recovery time (min)	185

PHOTOS microscope de bords de filtre avec HULLO (Dow, feed + bouteille 155cm)

CTD_C_Hg

Cruise: SWINOS 2021
Ship: N/O Marion Dufrenoy

STATION	11
CAT	031
DEPTH	

DATE:
STARTING START (GMT):
STOPPING END (GMT):

Unfiltered

Filtered

Unfiltered

Bottle	Spin line/stratification	Target	Sample	500ml glass	250ml	500ml	1 Liter	THg	DGM	TMHhg
1		1850 4560	4953	x				x	x	x
2		1900 4560	4952	x				x		
3		1850 4560	4952	x				x		x
4		3500	3532	x				x	x	x
5		2500	2539	x						
6	02 min	1500 1790	1513	x				x	x	x
7	02 min	1500 1790	1517	x				x		
8		1500 1790	1517	x				x	x	x
9	02 min	1250 1400	1252	x				x		x
10		1100	1110	x				x	x	x
11	min sal	800	808	x	x5	x5	x	x	x	x
12		400	401	x				x	x	x
13		200	201	x						
14	chl max	50	75	x						
15	chl max	51	75	x						
16	chl max	52	75	x					x	x
17	chl max	53	75	x						
18	chl max	54	75	x						
19	chl max	55	75	x						
20	surface		30	x						
21	surface		30	x				x		x
22	surface		30	x						
23	surface		30	x						
24	surface		30	x						

number of bottles per parameter 24 5 5 1 11 8 11

ST-11 - 60532

STATION	11
CAST	32
DEPTH	150 m

CaH₂

22' de grès -

take PUB
care }

conic English done on Bottles 9, 15, 16, 17, 18, 19.

SR 1A - Cast 33

Cruise: SWINGS 2021	STATION: 11	DATE: 25/01/2021	Secretary: 55
Ship: N/O Marion Dufresne	CAST: 33	SAMPLING START (UT): 15h44	
	DEPTH:	SAMPLING END (UT): 16h38	

Bottle	ANTICIPATED		DONE		234TH	Ba. St. BS, Iso	OMIC	vol vert	Bottle
	TARGET m	Optimized d/R	REAL db	Spun line m					
Vol (L)									Vol (L)
1	1500	1100	1517	1505	X	6.5	0.02		1
2	1000	1100	1109	1102	X	6.5			2
3	1000	1000	1012	1003	X	6.5			3
4	800	800	805	800	X	6.5			4
5	600	600	603	601	X	6.5			5
6	500	500	504	502	X	6.5			6
7	400	400	404	403	X	6.5			7
8	350	350	352	351	X	6.5			8
9	300	300	303	302	X	6.5			9
10	250	250	252	252	X	6.5			10
11	200	200	201	203	X	6.5			11
12	180	180	182	182	X	6.5			12
13	160	160	162	162	X	6.5			13
14	140	140	141	141	X	6.5			14
15	120	120	122	121	X	6.5			15
16	100	100	102	101	X	6.5			16
17	80	80	75	75	X	6.5			17
18	60	60	61	60	X	6.5			18
19	40	40	40	40	X	6.5			19
20	20	20	40	40	X	6.5			20
21	10	10	10	10	X	6.5			21
24					X	6.5			24

bouteille 14 m) fermée (mais volume suffisant)

→ depth OCM à adapter.
 → erreur (2 bouteilles fermées à la même profondeur)

Station: **SWG_11_035_P**
Bottom Depth: 4900 m
Front file window

Lat: 39°48.048
Long: 36°21.162

°S
°E

Cast ISO + Hg

Comment

ISP order	clamp time (min)	cable speed (m s ⁻¹)	cable time (min)	total ship time (min)	Longueur cable (m)	Target depth (m)	True depth (m)	ISP name	Filter Holder	Filter Type	Initial Volume (m³)		Final Volume (m³)	V filtered (L)	Mn cart.	
1	5	0.8	0.2	5.2	-8	5000		ISFCA 4	HM1	SUPOR	45.848	45.949	46.688	839	x2	
2	5	0.8	10.4	20.6	492	4500		ISFCA 6	ML3	SUPOR	29.784	29.787	30.662	875	x2	Pb lumière pont (spot à grille): plein de poussière du câble sur l'ISP
3	5	0.8	10.4	36.0	992	4000		PIS 010 + TLOG	HMA8	SUPOR	93.54	93.542	94.456	914	x2	
4	5	0.8	10.4	51.4	1492	3500		ISFCA 7	ML2	SUPOR	48.095	48.098	48.881	783	x2	
5	5	0.8	10.4	66.8	1992	3000		PIS 012	HMA4	SUPOR	75.98	75.985	76.72	735	x2	
6	5	0.8	16.7	88.5	2792	2200		PIS 013	HMA5	SUPOR	3.4296	3.4317	4.1824	750.7	x2	
7	5	0.8	13.1	106.6	3422	1570		PIS 020	PIS 020 FH1	SUPOR	3.1571	3.1586	3.8915	733	min O2	
									PIS 020 FH2	QMA Hg	3.8941	3.8946	4.3737	479.1		
									EXH		6.8193	6.8213	8.0289	1205.6		
8	5	0.8	0.4	112.0	3442	1550		PIS 011 + TLOG	HMA3	SUPOR	73.675	73.678	74.44	762	x2	
									HMA2	SUPOR	24.482	24.496	25.407	911	x2	
									ML1	QMA Hg	11.074	11.074	11.936	862		
9	5	0.8	11.5	128.5	3892	1000		ISFCA 3								
10	5	0.8	4.2	137.7	4192	800		ISFCA 2								
11	5	0.8	11.5	154.1	4742	250		PIS 007	HMA6	SUPOR	6.394	6.397	7.51	1113	x2	
12	5	0.8	4.2	163.3	4942	50		PIS 021	PIS021 FH1	SUPOR	2.4156	2.41171	2.8028	391.09	Chi max, FH1 remplie d'eau. Tache noire sur le QMA	
									PIS021 FH2	QMA Hg	3.5093	3.5104	3.922	411.6		
									EXH		5.7703	5.7713	6.5705	799.2		
13	5	0.8	0.4	166.7	4962	30		PIS 009	HMA7	SUPOR	67.727	67.733	68.131	398	x2	
Total	65		103.7		5000											
Total (heure)	1.08333															

Longueur totale filée

Date Onboard time

TU

Deployment	26/01/2021	23:50	20:50
Pump start	26/01/2021	03:10	00:10
Pump end	26/01/2021	06:10	03:10
Pump onboard:	26/01/2021	08:20	05:20

Total deployment (min)	169
Total recovery time (min)	169

Remarques: 8 m
Hauteur de la bordée: min
Temps additionnel pour déployer le carottier

CTD_S_Basic_FULL

File: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	11
CST	36
DEPTH	500

DATE: 26/01/21
SAMPLING START (GMT): 10:20
SAMPLING END (GMT): 11:30

Secretary: *Cal*

S-11-036 Basic

db m

Sampling: ODS Team

Sampling: users

Bottle Target	Optimized	REAL	Spin Line	Oxygen		130C	180C	Salinity	N/25	NH4-300	NO3 bot	DON bot	POC/PON	HPLC	Chl-a-200	FRR	OMC (3 depth CTD)	Nitr	Cd/Cd	Ss-1500	Ba at 2000 m	Nd-1500-15k	RADIUM	Tbref	Bottle
				Flask	TP																				
1	5000	5101	5027	1	6.0	X	0.1	1.1	97X																1
2	4000 msi	4108	4020	2	6.4	X	0.2	1.2	98X																2
3	3000	3045	3015	3	6.8	X	0.3	1.3	106X																3
4	2500	2534	2501	4	7.2	X	0.4	1.4	99X																4
5	2000	2025	2006	5	7.7	2.0	5X	5X	99X																5
6	1750 msi	1771	1753	6	7.8	X	X	X	100X																6
7	1500 msi	1517	1503	7	8.2	6X	7X	7X	100X																7
8	1000 msi	1017	1010	8	9.5	X	8X	8X	101X																8
9	750	757	754	9	11.1	X	10X	10X	102X																9
10	550	554		10	12.8	X	10X	10X	102X																10
11	400			11	14.6	X																			11
12	350			12	15.0	X																			12
13	300			13	15.8	X																			13
14	250			14	16.5	X																			14
15	200			15	17.1	X																			15
16	160			16	17.5	X																			16
17	120			17	18.0	X																			17
18	100			18	18.2	X																			18
19	75			19	18.6	X																			19
20	60 DCM			20	18.8	X																			20
21	40			21	20.2	2.1X	21X	21X	105X																21
24	15			24	20.2	2.4X	24X																		24

Reau fin

de Bouteilles 9,10,11,12
[entre 8 et 9 kg]

Max DCM 59 m

durée S à 1500 m pour passer 107
durée O2 à 1500 m pour passer 22 → T_p = 8,50

Robinet 17 litres durs-

durée DIC sur B5 avec n° 22 ID

Emoute, les Ra ont pris 100P
à 35 et 135 m pour le premier de qui suit.

SWG-12-037

Station	11
Lat	41.05083333
Long	36.86972222
Date (UTC)	1/26/21
Time (UTC)	10:38
Cast #	37
Bottom Depth	5822
Mixed Layer (ft)	50
Target Depths	135

Tank	6
Depth (m)	135
Start	1/26/21 11:34
Stop	1/26/21 12:15
Flow through	118201
Gallons	118345.5
0:41	144.5
0:46	144.5
Tank	5
Depth (m)	115
Start	1/26/21 12:15
Stop	1/26/21 12:49
Flow through	118345.5
Gallons	118483.2
0:34	137.7
0:39	137.7
Tank	4
Depth (m)	95
Start	1/26/21 12:51
Stop	1/26/21 13:25
Flow through	118483.2
Gallons	118624.8
0:34	141.6
0:35	141.6
Tank	3
Depth (m)	80
Start	1/26/21 13:29
Stop	1/26/21 14:09
Flow through	118624.8
Gallons	118791.1
0:40	166.3
0:43	166.3
Tank	2
Depth (m)	65
Start	1/26/21 14:17
Stop	1/26/21 14:40
Flow through	118791.1
Gallons	118935.6
0:23	144.5
0:33	144.5
Tank	1
Depth (m)	25
Start	1/26/21 14:57
Stop	1/26/21 15:39
Flow through	118935.6
Gallons	119072.2
0:42	136.6
0:40	136.6

135 115 95 80 65 25

CTD_C_S C

C-12-038

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	12
CAST	038
DEPTH	

cause court circuit
decruit S
→ 12 faite au lac

Scid

Bottle	Spun linsificatio	target	Sample ID	oxygen		DIC-alk	Salinity	nutrients	NH4	NO3		Heather/12z/Tommy	dtm
				Flask#	Tr°					isotopes			
1		4900 Bottom-30	4272	25 34	X	O1A	179	.	X	.	X		
2		4000 maxi	4020	26 34	X	O2A	X	.	X	.	X		
3		3000	3045	27 4.5	X	O3A	180	.	X	.	X		
4		2500	2536	28 5	X	O4A	X	.	X	.	X		
5		2000	2026	29 5.2	X	O5A	181	.	X	.	X		
6		1500 minO2	1516	X	X	O6A	X	.	X	.	X		
7		1250 min Ox	1264	30 5.8	X	O7A	X	.	X	.	X		
8		750 mins	755	31 6	X	O8A	X	.	X	.	X		
9		500	505	32 8.8	X	O9A	182	.	X	.	X		
10		350	354	X	X	O10A	X	.	X	.	X		
11		300	302	X	X	O11A	X	.	.	.	X		
12		250	251	X	X	O12A	X	.	.	.	X		
13		200	201	X	X	O13A	183	.	.	.	X		
14		200	201	X	X	X	X	.	.	.	X		
15		160	163	X	X	O14A	X	.	.	.	X		
16		120	122	X	X	X	X	.	.	.	X		
17		120	122	X	X	O16A	X	.	.	.	X		
18		100	99	X	X	O17A	184	.	.	.	X		
19		75	74	X	X	O18A	X	.	.	.	X		
20		chl max	63	X	X	X	X	.	X	.	X		
21		chl max	62	X	X	O20A	X	.	X	.	X		
22		chl max	62	X	X	X	X	.	.	.	X		
23		40	40	33 4.5	X	O21A	185	.	.	.	X		
24		30	30	34 4.6	X	O24A	X	.	.	.	X		

34.22
34.73
34.79
34.810
34.722
34.652
34.523
34.27
34.43
34.55
34.64
34.64
34.73
34.73
34.945
34.93
34.93
34.88
34.81
34.83
34.83
34.83
34.69
34.69

D_S_Basic

S-13-039

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	13
CAST	39
DEPTH	

DATE: 27/01/21
SAMPLING START (GMT):
SAMPLING END (GMT):

Secretary:

Sampling: OISO Team

Sampling: users

Bottle/TARGET	ANTICIPATED	Optimized	REAL	Spun Line	Oxygen			DIC/ALK	138C	188O	Salinity#	N.P.SI	NH4-300	NO3 Isot	DON Isot	POC/PON	HPLC	Chloro-200	FRF/OMC (3 d)	CTONITRIT	Cd/SS-1500	Ba at 2000 m	Nd-150-15	RADIUM	MRB	Bottle
					Flash#	Tr																				
1	Bottom-30		1602	1580	1	✓	3.5	0.14V	1.5	0.25	0.2	121V														1
2	Bottom-30		1602	1580																						2
3	Bottom-30		1602	1590																						3
4	1250		1265	1249	2	✓	3.5	0.44V			122V															4
5	1250		1265	1249																						5
6	1250		1265	1249																						6
7	1000		1012	997				0.74V																		7
8	1000		1012	997																						8
9	1000		1012	997																						9
10	800		806	794				10A ✓																		10
11	800		806	794																						11
12	800		806	794																						12
13	500		504	495	3	✓	5.5	13A ✓			123V															13
14	500		504	495																						14
15	500		504	495																						15
16	300		302	296	4	✓	5.6	16A ✓			124V															16
17	300		302	296																						17
18	300		302	296																						18
19	150		151	144	5	✓	6.5	19A ✓			125V															19
20	150		151	144																						20
21	150		151	144																						21
24	5040 (CM)	55	51	45	6/7	✓	9.1	23/24A ✓			126V															24

9.21

Find $\Delta H_{\text{rxn}} = 1385$

18.01.2021

Secretariat:

STATION	14
CAST	040
DEPTH	

DATE: 2/20/01
SAMPLING START (GMT):
SAMPLING END (GMT):

SAVING LIVES (cont.)

Sampling: OISO Team

Sampling: users

[illegible]

Sainte-OTD
(PSO)
34.56t

	34.568
	34.568
	34.546
	34.534
	34.529
	34.529
	34.499
	34.499
	34.477
	34.476
	34.450
	34.429
	34.388
	34.386
	33.987
	33.986
	33.921
	33.922
