S37 = 07

CTD_S_OISO_St37_cast 101

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 12/02/2021
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: CC/LI

Sampling: OISO Team
Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DONE REAL	Span Line	CHH4	Oxygen Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chla <200	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>15(	234Th	Bottle
VOL (L)					0,2	1	3,2	1,5	0,25	0,1	0,55	0,2	0,15	0,1	0,15	2,5	2	2,5	0,1	10	0,1	0,7	2	2	4	10	10,9	VOL (L)
1	1200	1202	1217	1210	1/24	2.9	01	19AX	1X	1X	176X	X																1
2	1000	988	1010	1003	2X	3.2	02AX		2X	2X	177X	X																2
3	800	795	807	800	3X	3.2		X		3X		X																3
4	600	600	606	600	4X	3.6		X		4X																		4
5	500	496	501	510	5X	3.6		X	5X	5X	178X	X																5
6	400	399	401	401	6X	3.8		X				X																6
7	300	299	301	299	19X	4.4		X	7X	7X		X																7
8	250	248	250	246	8X	4.6		X				X																8
9	200	200	201	198	9X	4,3		X	9X	9X	179X	X						X9 (24)										9
10	150	150	150	148	10X	4,3		X				X						X (24)										10
11	125	124	123	119	11X	4.5		X				X						X (24)										11
12	100	100	100	98	12X	4,8		X	12X	12X	180X	X						X (24)										12
13	75	73	73	72	13X	7.0		X				X						X (24)										13
14	50	50	50	49	14X	7,1		X	14X	14X	181X	X						X (24)										14
15	40	40	40	39	15X	7,2		X				X						X (24)										15
16	30	30	32	30	16																							16
17	20	20	20	19	17X	7,4		X	17X	17X	192X	X						X (24)										17
18	10	10	10	9.6	18X	7,5		18AX				X						18X (24)										18
19	10		Hugo		X																							19
20	10		Hugo		X																							20
21	10		Hugo		X																							21
24	10		Hugo		X																							24

34.655
34.575
34.463
34.227
34.251
34.151
34.085
34.101
33.988
33.900
33.855
33.825
33.718
33.722
33.722
33.722
33.722
33.721

* prélèvement artistique

16 didn't close! ☹

CTD_C

38_102

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	38
CAST	102
DEPTH	

DATE: 13/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):

0.3 4.41.10^4
0.5 2.05.10^4
5 7.06.10^2

Unfiltered | Filtered | Ultrafiltered

dbar

Bottle	Spun line	justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes	Tommy/Hel	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (125ml)	Humics (60ml)	Fluorine 1	Fluorine 2	Cation	REE'S	Zn isotopes	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1			Bottom - 30	4358	•	•	•				•	X			•	•	•		•	•												
2			4200	4277	•	•	•				•				•	•	•		•	•										8.0	28x	1
3			4100	4175	•		•				•				•	•	•			•										6.6	19x	2
4		min T	3700	3764	•	•	•				•	• ✓			•	•	•		•	•										8.0	25x	3
5			3000	3047	•		•				•				•	•	•			•										9.75	41x	4
6			2500	2590	•	•	•				•				•	•	•		•	•										10	51x	5
7			2200	2279	•		•				•	• ✓			•	•	•			•										9.55	15x	6
8			1750	1771	•	•	•				•				•	•	•		•	•										5.7	18x	7
9			1400	1418	•		•				•				•	•	•			•										9.5	53x	8
10			1250	1266	•	•	•				•				•	•	•		•	•										5.9	36x	9
11		min ox	1100	1112	•		•				•				•	•	•			•										9.6	37x	10
12			800	807	•	•	•				•				•	•	•		•	•					•	•				7.2	64	11
13			600	605	•		•				•				•	•	•			•										7.1	70	12
14			500	505	•	•	•				•	• ✓			•	•	•		•	•										7.1	3X	13
15		ox	400	406	•		•				•				•	•	•			•					•	•				5.25	48X	14
16			300	301	•	•	•				•				•	•	•		•	•										7.0	9	15
17		T	250	249	•		•				•	• ✓			•	•	•			•										8.0	22x	16
18			200	203	•	•	•				•				•	•	•	•	•	•										9.25	57x	17
19			150	152	•		•				•				•	•	•	•		•						•				8.8	45x	18
20			110	112	•		•				•				•	•	•	•		•						•				4.75	46x	19
21			80	81	•	•	•				•				•	•	•	•	•	•					•	•				5.6	16x	20
22			40	41	•		•				•	• ✓			•	•	•	•	•	•	•	•	•			•				7.1	34	21
23			30	33	tommy 7 x 500mL																				•	•				20	5x	22
24			30	31	•	•	•				•				•	•	•	•	•	•	•	•	•	X	•	•						23
																													2.0	50	24

Blank

Blank → #8 : 44
#21 : 49x (1L)

#9 leaking bottom

#22 → 5x (2L)
22' → 24x (0.3L) + samples

#24 → 50 (2L)
24' → 52x → 0.4L + samples

S - 38 103

CTD_S_Basic_FULL

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	38
CAST	103
DEPTH	

DATE: 13.02.2021
SAMPLING START (GMT): 6:45 Secretary: Cath de 6:45 à 7:25
SAMPLING END (GMT): 7:25

Sampling: OISO Team | Sampling: users

Bottle		TARGET	Optimized	REAL	Spun Line	CH4	Oxygen Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chla <200	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>15(	MRII	Bottle
VOL (L)							0,2	1	1,5	0,25	0,1	0,35	0,2	0,35	0,1	0,15	2,5	2	2,5	0,1	10	0,1	0,7	2	2	4	10	10,9	VOL (L)
1	\	Fond-30	4300	4379	4304		37/38	1,5/2,0				X 103/104																		1
2	\	4000	4000	4072	4000																				X 6				2
3	\	3700	3700	3760	3698																				X 6				3
4	\	3500	3500	3556	3498		39X	2,1																	X 6				4
5	\	3000	1997	3044	2996																				X 6				5
6	\	2500	2500	2535	2496		40X	2,6				X95.													X 6				6
7	\	2000	2000	2026	1997																				X 6				7
8	\	1500	1500	1576	1495		41X	3,1				X96.													X 6				8
9	\	1000	1000	1051	995		42X	3,4				201X																	9
10	\	800	800	807	796		43X	3,6				192X																	10
11	\	400	400	401	395	CH4X																							11
12	\	300	300	302	294																								12
13	\	200	200	201	196		44X	4,9				193X		X.									X.						13
14	\	150	150	150	144									X.				X.	X.	X.			/.						14
15	\	100	118	98	92	CH4X	45X	6,2				189X		X.				X.	X.	X.			X.						15
16	\	80	Tommy	81	75		donne							X				X.	X.	X.									16
17	\	60	60	60	60	CH4X								X				X	X	>									17
18	\	30 DCM	Tommy	31	24		donne							X.				X.	X.	X.									18
19	\	30 DCM	31	31	24	CH4X	46X	9				X88.		X.				X.	X.	X.									19
20	\	15	Tommy	16	10		donne																						20
21	\	15	Ingrid	16	10		donne														5 donne								21
24	\	15	16	16	10	CH4X								X.				X.	X.	X.	OMIC								24

34.669
34.672
34.689
34.696
34.726
34.756
34.761
34.721
34.528
34.422
34.110
34.143
34.043
33.943
33 981
33 982
33 750
33.737
33 738
33 741
33 741
33 741

P_38_104

Station: SWG_38_104_P
Bottom Depth: 4326 m

Lat: -47.27 °N
Long: 59.791 °E

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.	Cast TM							Comment
																FP	IO	HP + NL	L-E, H.	CJ	DC	MS	
1	5	0.8	0.2	5.2	-8	1000		PIS013	HM5	SUPOR	8.1788		9.0424	863.6				X		X	X		
2	5	0.8	4.2	14.3	192	800		PIS009	HM7	QMA/P1/P2	75.66		77.023	1363		X			X				
3	5	0.8	6.3	25.6	492	500		ISPCa 6	ML3	SUPOR	36.664		37.841	1177				X		X	X		traces blanches . A l'air okay par rapport au tuyau mal fixé
4	5	0.8	2.1	32.7	592	400		ISPCa 3	HM2	QMA/P1/P2	32.045		33.141	1096		X			X				DISCONNETED
5	5	0.8	4.2	41.8	792	200		PIS012	HM4	QMA/P1/P2	82.086		83.17	1084		X	X		X				
6	5	0.8	1.0	47.9	842	150		ISPCa 4	HM1	QMA/P1/P2	52.758		53.932	1174		X			X				
7	5	0.8	0.6	53.5	872	120		ISPCa 7	ML2	SUPOR	54.1		54.819	719				X		X	X		Plein de mini bestioles (donné échantillon à Hugo pour check au microscope)
8	5	0.8	0.4	58.9	892	100		PIS011	HM3	QMA/P1/P2	79.19		80.002	812		X			X				
9	5	0.8	0.8	10.8	932	60		PIS020	FH1	SUPOR	5.7924		5.9671	174.7				X		X	X	X	Plein de filaments (pelètes fécales)
									FH2	QMA/P1/P2	7.7193		7.9848	265.5		X			X				P1: filtre pas homogène
									EXH		13.2328		13.6694	436.6									
10	5	0.8	0.6	16.5	962	30		PIS021	FH1	SUPOR	5.4878		5.5989	111.1				X		X	X	X	Max Chl-a. Filaments sombres (pelètes fécales?)
									FH2	QMA/P1/P2	7.2631		7.4533	190.2		X	X		X				
									EXH		12.5761		12.8766	300.5									
Total (min)	50		20.4	70.4	1000	Longeur totale filée																	
Total (heure)	0.83333																						

	Date	Onboard time	TU
Deployment start time	13/01/2021	11:00	5:00
Pump start date:	13/01/2021	12:30	8:30
Pump end date:	13/01/2021	15:30	11:30
Pump onboard:	13/01/2021	16:30	12:30

Total deployment (min)	70
Total recovery time (min)	70

Pas de restes pour CJ - ça a été donné à Nolwenn pour δ60Ni

Remarques:

Hauteur de la bordée: 8 m

Temps additionel pour déployer le carottier min

38_105

CTD_S_BaSiThNd_st38_105

Cruise:	SWINGS 2021	STATION:	DATE: 13/02	Secretary:	
Ship:	N/O Marion Dufresne	CAST:	SAMPLING START (GMT):		
		DEPTH:	SAMPLING END (GMT):		

Cath.

Bottle	Spun line	CTD pressure	Ba_Si_BSi_iso	234Th	[illegible]	vol vert	Bottle
Vol (L)			6,5	4,5	0,02	11,02	Vol (L)
1	1200	1215	X 6,5	X 4,5			1
2	1000	1013	X 6,5	X 4,5			2
3	800	808	X 6,5	X 4,5			3
4	600	606	X 6,5	X 4,5			4
5	500	~~504~~	6,5	4,5			5
6	400	404	X 6,5	X 4,5			6
7	350	353	X 6,5	X 4,5			7
8	300	302	X 6,5	X 4,5			8
9	250	249	X 6,5	X 4,5			9
10	230	242 cath Nd			X		10
11	200	200	X 6,5	X 4,5			11
12	180	180	6,5	X 4,5			12
13	160	160	X 6,5	X 4,5			13
14	140	139		X 4,5			14
15	120	121	X 6,5	X 4,5			15
16	100	101	X	X 4,5			16
17	80	78	X 6,5	X 4,5			17
18	60	58	6,5	X 4,5			18
19	40	40	X 6,5	X 4,5			19
20	20	20	X	X 4,5			20
21	10	10	X 6,5	X 4,5			21
24	5	5			X		24

— Bouchon bas mal fermé

^{7}Be Station Sheet

S_38_Be

106

Station	38
Lat	
Long	
Date (UTC)	1/13/21
Time (UTC)	14:00
Cast #	
Bottom Depth (m)	
Mixed Layer (m)	44
Target Depths	22, 60, 85, 110, 135, 156 +60

* 110 was lost

		Fill tanks	Flow through	Gallons
Tank	6			
Depth (m)	156			
Start		15:04	15:42	107589
Stop		15:35	16:25	120893
Tank	5			
Depth (m)	135			
Start		15:42	16:26	120893
Stop		16:14	17:00	121033
Tank	4			
Depth (m)	110			
Start		16:18	17:04	121033
Stop		16:53	17:44	121188
Tank	3			
Depth (m)	85			
Start		17:00	1800	121188
Stop		17:33	18:43	121359
Tank	2			
Depth (m)	60			
Start		17:38	18:46	121359
Stop		10:12	19:30	121451
Tank	1			
Depth (m)	22			
Start		18:24	17:31	121451
Stop		18:51	20:20	121611

CTD_S_Basic_FULL

St x 39 OISO _ 107

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 14/12/21
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Hélène

Sampling: OISO Team | Sampling: users

Bottle	TARGET	Optimized	REAL	Span Line	CH4	Oxygen Flask#	Oxygen Tp°	Oxygen DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chla <200	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Bs at 2000	Nd-iso>15	234Th	Bottle
VOL (L)					0.2	1		1.5	0.25	0.1	0.33	0.2	0.15	0.1	0.35	2.5	2	2.5	0.3	10	0.1	0.7	2	2	4	10	10.5	VOL (L)
1	1200		1213			1/19	2.7/2.8	1/19	1X	1X	202X	X																1
2	1000		1005			2	2.9	2X	2X	2X	203X	X																2
3	800		807			3	3.1	3X	3X	3X		X																3
4	600		607			4	3.5	4X	4X	4X		X																4
5	500		504			5	3.7	5X	5X	5X	204X	X																5
6	300 ~~400~~		~~400~~ 300			6	4.0	6X				X																6
7	300		304			22	3.9	7X	7X	2X		X																7
8	250		248			8	4.3	8X				X																8
9	200		201			9	4.4	9X	9X	9X	205X	X						9										9
10	150		152			10	4.6	10X				X						10										10
11	125		127			11	4.8	11X				X						11										11
12	100		102			12	5.9	12X	12X	12X	206X	X						12										12
13	75		77			13	6.1	13X				X						13										13
14	50		51			14	6.5	14X	14X	14X	207X	X						14										14
15	40		39			15	6.5	15X				X						15X										15
16	30		31			16	6.4	16X				X						16X										16
17	20		19			17	6.4	17X	17X	17X	208X	X						17X										17
18	10		11			18X	6.6	MX				X						18X										18
19																												19
20																												20
21																												21
24																												24

A la volée

Fureur : 6 et 7 clapues à 300m.

CTD_40_108

CTD_S_Basic_FULL 108

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 14.02.2021
SAMPLING START (GMT): 18:00
SAMPLING END (GMT): 19:25
Secretary: [signature]

Sampling: OISO Team (Oxygen) — Sampling: users

Bottle	TARGET (ANTICIPATED)	Optimized	REAL (DONE) dL	Spun Line	CH4	Flask#	Tp°	DIC-Alk	13C	18O	Salinity#	N,P,Si	NH4<300
VOL (L)					0.2	1		1.3	0.25	0.1	0.35	0.2	0.15
1	Bot-30	2034	2062	2035									
2	- 1700	1703	1724	1697									
3	1500	1502	1515	1493									
4	1200	1200	1214	1194		25/26 209	/2.7	D05/D04	4 X	4 X	209 X	X .	
5	1000	1000	1014	1000		27 X	4.0 !	D05 .	X5 .	X5 .	210 X	X !	
6	800	799	811	795		28 X	3.3 •	X06 .				X .	
7	600	601	608	592		29 X	3.0	X07 .				X .	
8	500	500	504	432		30 X	3.1	X08 .	X8 .	X8 .	X211 .	X .	
9	400	400	402	391		31 X	3.7	X09 .				X .	
10	300	300	301	290		32 X	3.4	X10 .	10 X .	10 X .		X .	X .
11	250	249	249	239		33 X	3.5	X11 .	X11a/b	11		/ .	X .
12	200	200	200	189		34 X	3.4	X12 .	X12a/b	X12 .	X212 .	X .	X .
13	150	150	150	138		35 X	3.6	X13 .	X13a/b			X .	X .
14	125	125	126	114		36 X	3.9	X14 .	X14a/b			X .	X .
15	100	100	101	90		37 X	4.6	X15 .	X15a/b	X15 .	X213 .	X .	X .
16	75	74	75	64		38 X	5.4	X16 .	X16 .			X .	X .
17	50	50	50	40		39 X	5.4	X17 .	X .	17 X	214 X	X .	X .
18	40	40	40	30		40 X	5.3	X18 .	X19 .			X .	X .
19	30	31	32	20		41 X	5.2	X19 .				X .	X .
20	20	21	21	13		42 X	5.2	X20 .	X20 .	X20 .	215 X	X .	X .
21	10	12	12	4		43 X	5.2	21 X	21 X			X .	X .
24	10	12	12	4									

Bottle	NO3 isot	DON isot	POC/PON	HPLC	Chla<200	FRRF	OMIC (3 dept)	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>15	234Th	Bottle	
VOL (L)	0.1	0.15	2.5	2	2.5	0.1	20	0.2	0.7	2	2	4	20	20.9	VOL (L)	
1											X 6				1	34.746
2											X 6				2	34.755
3											X 6				3	34.757
4											X 6				4	34.727
5											\ pas fait			/	5	34.672
6											X 6				6	34.610
7											X 6				7	34.463
8											X 6				8	34.389
9											X 6				9	34.273
10											X 6				10	34.148
11											NON 6	NON			11	33.988
12				X .	X .	X .					X 6				12	33.915
13				X .	X .	X .					X 6				13	33.883
14				X .	X .	X .				X .					14	33.866
15				X .	X .	X .					X 6				15	33.828
16				X .	X .	X .									16	33.768
17				X .	X .	X .					X 6				17	33.767
18				X .	X .	X .									18	33.767
19				X .	X .	X .				X .	X 6				19	33.766
20				X .	✓	X .									20	33.766
21				X .	X .	X .				X .					21	33.766
24											X 6				24	33.766

! Bout 5 = de gros pb s'est vidée
Ça fait [illegible] fois .

Les OISO ont un pb de thermomètre : valeurs variables

Damien ne prend pas la 11 (250 m)

(- 40.109

0.5 2.44 .10
5 0

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 14 02 2021
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered

Bottle	Spun line	justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes		Tommy/He
		db												
1	[illegible]	2062	Bottom - 30		•	•	•	217 •			•			
2		2027	2000		•	•	•	218 •	•		•			
3		1826	1800		•		•	219 •			•			
4		1520	1500		•	•	•	220 •	•		•			
5		1265	1250		•		•	221 •			•			
6		1009	1000		•	•	•	222 •	•		•			
7		810	800		•		•	223 •			•			
8		606	600		•		•	224 •			•			
9		504	500		•		•	225 •	•		•			
10		382	380		•	•	•	226 •			•			
11		272	270		•		•	227 •			•			
12		255	250		•	•	•	228 •			•			
13		201	200		•		•	229 •	•		•			
14		157	150		•	•	•	230 •	•		•			
15		151	150					X •						
16		120	120		•		•	231 •	•		•			
17		103	100		•		•	232 •			•			
18		90	90		•	•	•	233 •			•			
19		55	90					X •						
20		70	70		•		•	234 •			•			
21		60	70					X •						
22		50	50		•	•	•	235 •			•			
23		40	50					X •						
24		33	30		•		•	236 •			•			

Filtered / Ultrafiltered

Bottle	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (125ml)	Humics (60ml)	Fluorine 1	Fluorine 2	Cation	REES	Zn isotopes	dTM
1		•	•	•		•	•						
2		•	•	•		•	•						
3		•	•	•			•						
4		•	•	•		•	•						
5		•	•	•			•						
6		•	•	•		•	•						
7		•	•	•			•						
8		•	•	•			•						
9		•	•	•		•	•						
10		•	•	•			•						
11		•	•	•			•						
12		•	•	•		•	•						
13		•	•	•	•		•						
14		•	•	•			•						
15													
16		•	•	•	•		•						
17		•	•	•	•	•	•						
18		•	•	•	•		•						
19													
20		•	•	•	•		•						
21													
22		•	•	•	•		•						
23													
24		•	•	•	•		•	•	•	•			

Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle	
				57X		
			7.2	[illegible]	1	34.740
			9.0	24X	2	34.741
			9.0	36X	3	34.749
			9	52X	4	34.747
			8.8	24	5	34.727
			7.9	45X	6	34.674
			6	12X	7	34.613
			6.3	50	8	34.461
			5.4	48X	9	34.377
			6.5	44	10	34.262
			6.3	4	11	34.068
			5.6	12	12	34.038
			4.5	18X	13	33.906
			5.4	53X	14	33.858
				~~47X~~	15	33.858
			4.5	47X	16	33.84
			2.6	20	17	33.76
			2.4	41X	18	33.76
					19	33.76
			2.2	64	20	
					21	
			1.4	32X	22	
					23	
			2.7	50X	24	

→ It was not possible to slow down due to the waves for the B18 to B24 so depths could be approx slightly different

Blank → #22 → 34x (1.0L)
#3 → 20x (1.1L)

CTD_S_Basic_FULL_sT 41_cast 110

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	41
CAST	110
DEPTH	875m

DATE: 15.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Hélène

Sampling: OISO Team
Sampling: users

Bottle	TARGET	Optimized	REAL	Spun Line	CHH4	Flask#	Tp°	Oxygen DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chlo <200	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>15(	234Th	Bottle
VOL (L)					0,2	1		1,5	0,25	0,1	0,35	0,2	0,15	0,1	0,25	2,5	2	2,5	0,1	10	0,1	0,7	2	2	4	10	10,9	VOL (L)
1	780	847	854		X	44	2,5	01D. X			49X																	1
2	~~750~~	847	855		X	45	2.5	02D. X																				2
3	700	700	707					03D. X																				3
4	650	650	657					04D. X																				4
5	600	600	606					05D. X																				5
6	550	546	551					06D. /																				6
7	500	500	504		X	46.	2,6	07D. X			50X																	7
8	450	450	455					08D. X																				8
9	400	400	403		X.			09D. /																				9
10	300	303	305					10D.																				10
11	250	250	252					11D. X																				11
12	200	200	202		X	47.	2.4	12D.			51X							X										12
13	150		151					13D. /										X										13
14	125		126					14D. X										X										14
15	100		101		X	48.	4.0	15D. X			52.							X										15
16	75		75		X.			16D. X										X										16
17	50		50		X.	.		17D X			.							X										17
18	40		39		X.			18B X										X										18
19	10		10		X.	854	4.7	19D. X			53X							X										19
20	10		10																									20
21	10		10																									21
24	10		10																									24

34.576
34.576
34.496
34.475
34.427
34.344
34,309
34,278
34,221
34,061
34,032
33,936
33,89
33,83
33,80
33,78
33,78
33,78

BTL 1 & 2 : { fermeture au même niveau ~850m → doublet

stn 42_111 [oiso10]

CTD_S_Basic_FULL

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 15.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: CC

Sampling: OISO Team | Sampling: users

Bottle	TARGET	ANTICIPATED Optimized	REAL	Spun Line	CH4	Oxygen Flask#	Tp°	DIC-Alk	13C	18O	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chla <200	Chla vol	FRRF	OMIC (3 dep	CYTO	Nitrif	calcif	234Th	Si>1500	Ba ARB >2000	Nd-iso>150	Bottle	
VOL (L)					0.2	1		2.8	0.25	0.1	0.25	0.2	0.15	0.2	0.15	2.5	2	2.5		0.2	10	0.1	0.2	2	20.8	1	1	2	22	VOL (L)	
1	1600	1599	1620	1597		1 X	2,0	01A X	1 X	1 X	54 X	X														X	X	X	1	34.753
2	1400	1400	1416	1395		2 X	2.2	02A X				X														X	X		2	34.750
3	1200	1195	1211	1193		3 X	2.4	03A X				X														X	X	X	3	34.736
4	1000	995	1007	991		4 X	2.6	04A X	4 X	4 X	55 X	X														X	X	X	4	34.710
5	800	798	806	793		5 X	2.6	05A X				X													X	X	X		5	34.635
6	600	599	603	593		6 X	2.7	06A X				X													X	X	X		6	34.495
7	500	500	503	494		23 X	2.7	07A X	7 X	7 X	56 X	X													X	X	X		7	34.391
8	400	400	404	395		8 X	3.0					X													X	X	X		8	34.270
9	350	350	353	345		9 X	2.3	09A X				X													X				9	34.213
10	300	299	302	294		10 X	2.3	20B X	10 X			X													X	X			10	34.142
11	250	250	251	245		11 X	2.2	11A X	11A/B X X			X													X	X	X		11	34.025
12	200	201	202	195				12A X	12A/B X X	12 X	57 X	X						12 X	1L						X	X			12	33.910
13	180	180	181	174		13 X	2.1	13A X	13A/B X X			X						13 X	2L						X				13	33.904
14	160	160	161	154				14A X	14A/B X X			X						14 X	1L						X	X	X		14	33.894
15	140	139	139	133		15 X	2.3	15A X	15A/B X X			X						15 X	2L						X				15	33.877
16	120	119	120	114		[illegible]		16A X	16A/B X X			X						16 X	1,75L						X	X	X		16	33.818
17	100	99	99	94		17 X	4.0	17A X	17A/B X X	17 X	53 X	X						17 X	2L						X	[illegible]	[illegible]		17	33.811
18	80	81	82	76		[illegible]		18A X				X						18 X	1,5L						X	X	X		18	33.811
19	60	60	60	54		19 X	4.0	19A X	19 X	19 X	59 X	X						19 X	2L						X	[illegible]	[illegible]		19	33.811
20	40	41	41	35				20A X				X						20 X	1,5L						X	X	X		20	33.810
21	20	20	20	15		21 X	4,2	21A X				X						21 X	2L						X				21	33.811
24	10	10	4	6		-		24A X	24 X	24 X	60 X	X						[illegible]	0L						X	X	Y		24	33.810

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	42
CAST	112
DEPTH	

DATE: 15.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):

0.3 2.35E5
0.5 6.18E4
5 0

C_42_112

not tm settles do not mix

remember to fill no bubbles

remember to acidify

remember to multiply by 2 think it was 250ml

add samples

Unfiltered | Filtered | Ultrafiltered

[dL]

Bottle	Soun line	Justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes	Tommy/Nic	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (125mL)	Ligands (60mL)	Fluorine 1	Fluorine 2	Cation	REES	Zn isotopes	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1		1685	Bottom - 30		V.	V.	V.			V	V.	V.			V.	V.	V.		V.	V.				V.	V.	V.				5.6	5X	1
2		1671	1650		V.		V.				V.				V.	V.	V.			V.										10	39X	2
3		1619	1600		V.	=	V.		V.		V.	V.			V.	V.	V.			V.				V.	V.					6.7	7 0	3
4		1520	1500																												4
5		1417	1400		V.		V.				V.				V.	V.	V.		V.	V.										9.2	50	5
6		1315	1300		V.		V.				V.				V.	V.	V.			V.										9.2	32X	6
7		1214	1200		V.		V.		V.	V	V.				V.	V.	V.		V.	V.				V.						6.5	47X	7
8		1013	1000		V.	V.	V.		V.		V.	V.			V.	V.	V.		V.	V.				V.	V.	V.				6.5	41X	8
9		1012	1000																												9
10		910	900		V.		V.				V.				V.	V.	V.			V.										10.1	18X	10
11		812	800		V.		V.		V.		V.				V.	V.	V.			V.										9.25	52X	11
12		708	700		V.	V.	V.			V	V.				V.	V.	V.		V.	V.				V.		V.				7.0	24X	12
13		700	700	500																											13
14		505	500		V.	V.	V.		V.		V.	V.			V.	V.	V.			V.				V.	V.	V.				5.65	12X	14
15		404	400		V.		V.				V.				V.	V.	V.		V.	V.										6.4	15X	15
16		303	300		V.	V.	V.				V.				V.	V.	V.			V.				V						7 1	16X	16
17		252	250		.		.				V.				V.	V.	V.			V.				X						7 11	~~17X~~	17
18		902	200		V.		V.		V.	V	V.	V.			V.	V.	V.	V.		.				V.	V.	V.				1.25	53X	18
19		164	160 / 160		V.		V.		V.		V.				V.	V.	V.	V.		V.										4.X	44	19
20		161	160																												20
21		111	110		V.		V.		V.	V	V.				V.	V.	V.	V.		V.				V.		V.				3	7X	21
22		X1	80		V.	V.	V.		V.		V.				V.	V.	V.	V.	V.	V.										3.4	28X	22
23		62	60 CM		V.		V.		V.		V.	V.			.	.	.	.	.	.				.	V.	.				3 1	45X	23
24		30	30 30		V.	V.	V.		V.		V.	V.	7x500mL		V.	V.	V.	V.	V.	V.	V.	V.	V.	V.	1.4	V.				2.8	29	24

19X B

52X B

Ingrid

Ingrid

Ingrid

Ingrid

0

34-748
34-748
34-749
34-750
34-745
34-742
34-732
34.696
34.696
34-656
34-612
34-557
34-557
34-405
34-322
34-145
34,030
33.917
33-874
33-874
33-801
33-806
33-806
33-805

Deep Blank 19X for Bottle #3 ⇒ 1L

Surf 52X #19 ⇒ 1L

* 53X (4.7L) ⇒ 49X (1.25L)

45X (38L) ⇒ 38X

no rinse for all the sampling bottles for Bottle #24 because we ran out of water for Nakamura's samples.

Prokaryote abundance: 3; 8; 12; 14; 16; 17; 18; 19; 21 22; 23; 24

Phyto abundance: 18; 19; 21; 22; 23; 24

42_113

Station: SWG_42_113_P
Bottom Depth: 1690 m

Lat: -50.702 °N
Long: 68.497 °E

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.	Cast ISO			Cast TM							Comment
																CJ	MRB	PvB	FP	JO	HP + NL	L-E. H.	CJ	DC	MS	
1	5	0.8	0.2	5.2	8	1640		PIS007 + TLOG	HM6	SUPOR CJ	13.457		14.342	885	X2	X										
2	5	0.8	0.4	10.6	12	1620		ISPCa2	ML1	SUPOR HP	17.212		17.236	24							X		X	X		Fond
3	5	0.8	12.9	28.5	832	1000		PIS013	HM5	SUPOR CJ	9.0441		9.8032	759.1	X2	X										Fond. N'a pompé que 20L -> filtre blanc
4	5	0.8	4.2	37.7	832	800		PIS020	FH1	SUPOR HP	5.9673		6.4794	512.1							X		X	X		Bestiole noire et dure -> coquille ? (enlevée)
									FH2	QMA/P1/P2	7.9847		8.796	811.3					X			X				
									EXH		13.6693		14.9859	1316.6												
5	5	0.8	6.3	48.9	1132	500		PIS010	HM8	SUPOR CJ	100.584		101.483	899	X2	X										traces blanches
6	5	0.8	2.1	56.0	1232	400		ISPCa4	HM1	QMA/P1/P2	53.933		54.841	908					X	X		X				QMA craqué au milieu
7	5	0.8	4.0	65.0	1422	210		ISPCa7 + TLOG	ML2	SUPOR CJ	54.823		55.379	556	X2	X										Winter water (temperature < 2°C). Taches blanches
8	5	0.8	0.4	70.4	1442	190		PIS009	HM7	QMA/P1/P2	77.025		77.622	597					X			X				
9	5	0.8	0.8	76.2	1462	150		PIS012	HM4	QMA/P1/P2	83.17		83.467	297					X	X		X				
10	5	0.8	1.0	82.3	1532	100		ISPCa3	HM2	QMA/P1/P2	33.143		33.439	296					X			X				
11	5	0.8	0.7	88.0	1567	65		PIS011	HM3	QMA/P1/P2	80.007		80.273	266					X			X				Max Chl-a. QMA craqué
12	5	0.8	0.4	93.4	1587	45		ISPCa6	ML3	SUPOR CJ	37.843		38.161	318	X2	X										Petite bestiole (enlevée)
13	5	0.8	0.4	98.8	1607	25		PIS021	FH1	SUPOR HP	5.5991		5.8167	217.6							X		X	X	X	Surface. 2 bestioles (enlevée)
									FH2	QMA/P1/P2	7.4532		7.6434	190.2					X	X		X				Plein d'eau (perte sur le 5µm) & 50 µm pas homogène & QMA craqué
									EXH		12.8767		13.2828	406.1												
Total (min)	65		33.8	98.8	1640	Longeur totale filée																				
Total (heure)	1.08333																									

	Date	Onboard time	TU
Deployment start time	15/02/2021	00:00	19:00
Pump start date:	15/02/2021	01:50	20:50
Pump end date:	16/02/2021	04:50	23:50
Pump onboard:	16/02/2021	06:10	1:10

Total deployment (min)	109
Total recovery time (min)	109

Remarques:

Hauteur de la bordée 8 m

Temps additionel pour déployer le carottier 10 min succès!

S42_114

CTD_S_Basic_FULL_kerfix

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	42
CAST	114
DEPTH	

DATE: 16/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: SS

db

Sampling: OISO Team

Sampling: users

Bottle	TARGET	Optimized	REAL	Spun Line	CH4	Oxygen Flask#	Oxygen Tp°	DIC-Alk	13C	18O	Salinity#	N,P,Si	NH4<300	NO3 Isot	DON Isot	POC/PON	HPLC	Chla <200	FRRF	OMIC (3 depth)	CTTO	Nitrif	calcif	Si>1500	Ac	Nd-iso>150	Ra	Bottle	
VOL (L)					0.2	1		1.5	0.25	0.1	0.35	0.2	0.15	0.1	0.15	2.5	2	2.5	0.1	10	0.1	0.7	2	2	4	10	10.9	VOL (L)	
1	Bot-30	Radium	1682	1671																							X	1	34.752
2	Bot-30	Actinium	1681																						X			2	
3	Bot-30	cath	1682																							X		3	
4	1600	Actinium	1615																						X			4	34.754
5	1500	Radium	1516	1507																							X	5	34.753
6	1500	Actinium	1516																						X			6	
7	1000	Radium	1010	1004																							X	7	34.696
8	1000	Actinium	1010																						X			8	
9	700	Radium	708	701																							X	9	34.596
10	700	cath	708																							X		10	
11	700	Actinium	708																						X			11	
12	500	Radium	506	498	no X																						X	12	34.408
13	300	Radium	302	295									X									X.					X	13	34.165
14	200	cath	201	196									X.			X.	X.	X.	X.			X.				X		14	33.942
15	200	Radium	201																								X	15	
16	200	Actinium	201		✓																				✓			16	
17	160	cath	162	157	X								X.									X.				X		17	33.837
18	120	Tommy	121	115									X.									X.	X.					18	33.814
19	100	cath	101	97	X								X.			X.	X.	X.	X.							X		19	33.81
20	60	Tommy	59	55	X								X.									X.	X.					20	33.811
21	20	cath	21	17									X.			X.	X.	X.	X.							cath X		21	33.811
24	20	Radium	21		X																						X	24	
		Actinium avec chips																											

TOMMY is taking the surface sample with the fish; he managed with David for the sampling tomrrow morning

bouteilles 14, 19 et 21 : Nd ~~#~~ 6L

43 115 V2

CTD_S_Basic_FULL_sT 41_cast 110

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE:
SAMPLING START (GMT):
SAMPLING END (GMT):

Secretary:

Sampling: OISO Team

Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	REAL	Spun Line	CH4	Oxygen Flask#	Oxygen Tp°	DIC-Alk	13C	18O	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chla<200	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>15	234Th	Bottle
1	1200	12	1215				7,7	x .			61 x	x .																1
2	1100		1114				3,4	x .				x .																2
3	1000		1014				2,5	x .			62 x	x .																3
4	900		909				2,6	x .				x .																4
5	800		808				2,1	x .			63 x	.																5
6	700		708				2,9	x .				.																6
7	600		609			3 .	3,0	x .				A .																7
8	500		505					x .			64 x	D .																8
9	400		403			31.	3,0	x .				.				.	.											9
10	350		351					x .				0 .																10
11	300		309			33.	2,8	x .				2 .																11
12	250		252					x .				P .																12
13	200		200			34.	2.3	x .			65 x	Q .					.											13
14	150		150					x .				R .				.	.											14
15	125		125					x .				* .				.	.											15
16	100		100			35.	33	x .			66 .	x .				.	.											16
17	75		75					x .				x .																17
18	50		50			36.	4,3	x .				x .				x .	.											18
19	40		40					x .				x .					x .											19
20	30		30			37.	4,5	x .			67 x	x .				.	x .											20
21	20		20					x .				x .					x .											21
24	10		10			38.	4,3	x .			68 x	x .				x .	x .											24

Bottle	
1	34,71
2	34,70
3	34,67
4	34,64
5	34,59
6	34,55
7	34,49
8	34,42
9	34,32
10	34,29
11	34,18
12	34,05
13	33,94
14	33,91
15	33,82
16	33,85
17	33,85
18	33,85
19	33,85
20	33,85
21	33,84
24	33,84

L= 10 mm 290 ox 3,71° 33,84 S

Bo

déploiement Arlo.

16/02/2021

43 - 116

Be

mais abandonné

cause mauvais temps

CTD_C

Cruise: SWINGS 2021
Ship: R/O Marion Dufresne

STATION	
CAST	
DEPTH	292

DATE: 17/02/24
SAMPLING START (GMT):
SAMPLING END (GMT):

St 44 Cast 117

1.05E5
3.81E4
0

Note Tommy, Ingrid, Catherine are unfiltered.

Prokaryotic abundance: 6; 10; 14; 17; 18; 20; 22
Phyto abundance: 18; 20; 22

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	Justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate Isot	Pb Isotopes	Fe	Tommy/He	Swinner #	N,P,Si	dFe	dTM	dAl	Ligands (125mL)	Humics (60mL)	Fluorine 1	Fluorine 2	Cation	REE5	Zn Isotopes	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1	257		Bottom - 30		•	•	•			•	•	•				•	•	•	•	•	•				•	•	•				2 0	33x	1
2	259		Bottom - 30																	Catherine													2
3	258	bottom 30 280			•		•			•						•	•	•			•										4.0	5x	3
4	244		240 280			Ingrid																											4
5	243		240 280		•		•			•						•	•	•			•						•				5.2	14	5
6	240		240		•	•	•		•	•						•	•	•			•										5.0	46x	6
7	222		220 240	Ingrid																													7
8	120		220		•		•				•					•	•	•	•	•	•						•				4.25	6x	8
9	203	mint T	200	Ingrid																													9
10	206		200		•		•		•		•	•				•	•	•	•		•				•	•					4.0	19	10
11	200		200																	Catherine													11
12	181		180		•	•	•				•					•	•	•	•		•										5.9	12	12
13	161		160																														13
14	150		150		•		•		•	•	•					•	•	•	•	•	•				•	•	•				3.0	17x	14
15	145		150																	Catherine													15
16	124		120																	Tommy													16
17	119		120		•		•		•		•	•				•	•	•			•										3.4	38x	17
18	93		80		•	•	•		•		•					•	•	•	•		•										2.5	42x	18
19	81		80	Tommy																													19
20	78		80		•	•	•		•		•					•	•	•	•	•	•						•				2.5	2x	20
21	32		30	Tommy																													21
22	31		30		•	•	•		•	•	•	•		7x500mL		•	•	•	•	•	•	•	•	•	•	•	•				0.8	4x	22
23	25		30																	Catherine													23
24	22		30																	Ingrid													24
number of bottles per parameter					12	5	12	0	7	3	4		0	0	12	12	12	8	5	12	0	0	0	4	4	6	0	0	0	0	0		
																			1,28	5,12													

Box all inverted!

#1 → leaking bottom → empty
#9 → " "
#20 → Filter 4x and 24 → N. Natwerm Lab finally (Just sample)

Blank #20 → 54x (1.1L) #14 → 17x → 51x (1.55L)
(3.0L) Just Natwerm Lab.
#5 → 18x (1.0L) #3 → 5x → 53(x) (1.0L)
(4.0L) Just Natwerm Lab.

#10 → 19 → 6x (1.6L)

#22 → 4x → 24 → empty →
(0.9L) Just Natwerm Lab
(x) (2.2L)

Coring

44_118

n'a pas marché

P 44_113

Station: SWG_44_119_P Lat: °S

Bottom Depth: 290 m Long: °E

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.	Cast ISO: CJ	Cast ISO: MRB	Cast ISO: PvB	Cast TM: FP	Cast TM: tO	Cast TM: HP + NL	Cast TM: L-E. H.	Cast TM: CJ	DC	MS	Comment
1	5	0.6	0.2	5.2	-8	260		ISPCa3 + TLOG	HM2	SUPOR CJ	33.439	33.744	305	x2	X										+ filtre blanc
2	5	0.6	0.6	10.8	12	240		ISPCa6	ML3	SUPOR HP	36.161	38.528	367							X			X		+ filtre blanc
3	5	0.6	0.6	16.3	32	220	winter water à vérifier	PIS010	HM8	SUPOR CJ	101.483	101.824	341	x2	X										winter water, Taches blanches
4	5	0.6	0.6	21.9	52	200		PIS021	FH1	SUPOR HP	5.817	6.1233	306							X			X		
									FH2	P1/P2/QMA	7.6438	7.8325	189					X			X				Pleine d'eau -> perte de materiel au 50 et 5 µm. 2 filtres Petex 5 µm (utilisé comme blanc)
									EXH		13.2828	13.7765	494												
5	5	0.6	0.8	27.7	82	170		PIS012	HM4	P1/P2/QMA	183.467	183.5885	121					X			X				
6	5	0.6	0.6	33.3	102	150		PIS013	HM5	SUPOR CJ	9.8035	9.931	128	x2	X										
7	5	0.6	0.6	38.8	122	130		PIS009	HM7	P1/P2/QMA	77.622	77.878	256					X			X				Pleine d'eau -> perte de materiel au 5 µm
8	5	0.6	0.6	44.4	142	110		PIS007	HM6	SUPOR CJ	14.343	14.613	270	x2	X										
9	5	0.6	1.1	50.5	182	70		ISPCa7+ TLOG	ML2	SUPOR CJ	55.379	55.524	145	x2	X										+ filtre blanc
10	5	0.6	0.6	56.1	202	50	max chloro à vérifier	PIS020	FH1	SUPOR HP	6.4796	6.6023	123							X			X	X	max de chloro. + filtre blanc
									FH2	P1/P2/QMA	8.7967	8.9225	126					X			X				Beaucoup de petites bestioles roses sur le 50 µm.
									EXH		14.9859	15.2308	245												
Total (min)	50		6.1	56.1	260	Longeur totale filée																			
Total (heure)	0.83333																								

	Date	Onboard time	TU
Deployment start time:	17/02/2021	08:15	3:15
Pump start date:	17/02/2021	09:20	4:20
Pump end date:	17/02/2021	11:20	6:20
Pump onboard:	17/02/2021		

TU = LT-5

Remarques:

ST # 44 Carr 120

CTD_S_Th_Si_Ra_Ac

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE:
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Hélène

Sampling: OISO Team | Sampling: users

	ANTICIPATED		DONE					Oxygen																								
Bottle	TARGET	Optimized	REA	Spun Line	CH4	Flask#	Tp°	DIC-Alk	13C	18O	Salinity#	N,P,Si	NH4<300	NO3 Isot	DON Isot	POC/PON	HPLC	Chla<200	Chla vol	FRRF	OMIC (3 dep	CYTO	Nitrif	calcif	234Th	Si>1500	MRB	Nd-iso>15	Bottle
VOL (L)					0,2	1		1,5	0,25	0,1	0,35	0,2	0,15	0,1	0,15	2,5	2	2,5		0,1	10	0,1	0,7	2	10,9	2	4	10	VOL (L)
1	Bot-30	XX	264																										1
2	Bot-30	Actinium	264	X																									2
3	Bot-30		264			3 X	2.7	03AX			69 X		X.										X.		X.	X.			3
4	240	Actinium	242	X																									4
5	240		242			5X	2.8	05AX			70 X		X.												X.	X.			5
6	220	XX	223																										6
7	220	Actinium	223	X				07AX																					7
8	200		202					08AX	8 X	8 X	71 X		X.			X	X	X	X.					X.				8
9	180	Actinium	182	X		9 X	3.1	09AX																					9
10	160		165					26BX	10 X	10X			X.												X.				10
11	150		150					[illegible]																	X.	X.			11
12	140		140					12AX					X.			X	X	X	X						X.	X.			12
13	120		120			13X	3.3	13AX					X.			X	X	X	X.						X.	X.			13
14	110	XX	110																						X.	X.			14
15	100		100					15AX	15 X	15X	72X		X.																15
16	80		80			16X	3.7	16AX					X.			X	X	X	X.						X.	X.			16
17	70	XX	71					17AX																	X.	X.			17
18	60		61					18AX	18 X	18 X	73X		X.										X		X.	X.			18
19	40		41					19AX					X.			X.	X.	X.	X.						X.	X.			19
20	30	XX	29																						X.	X.			20
21	20		19			21X	3.5	20AX					X																21
24	10		10					24AX	24 X	24 X	74X		X.			X	X	X	X				X		X.				24
	chips																												

34,03
1
34,02
34,02
34,00
34,00
33,99
33,99
33,97
33,96
33,95
33,95
33,95
33,94
33,92
33,92
33,91
33,91
33,91
33,91
33,91

⚠ Volumes sous-estimés ! Il manque :

24 → 0.5L pour Fred
19 → 0.5L pour Damien
16 → 1.5L "
13 → 1.5L "
12 → 1L
9 → 0,2L pour Fred

8 → 0,2 L pour Fred
3 → 1 L pour Damien

Suggestion : Tourner initiale à 11 carr pour avoir tous les flacons - revoir budget carr

CTD_S_45_PVB_Ra

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	45
CAST	121
DEPTH	

DATE:
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: GaB

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DOME REAL	Spun Line	Oxygen CHH4	Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 Isot	DON Isot	POC/PON	HPLC	Chla<200	Chla vol	FRRF	OMIC (3 dep	CYTO	Nitrif	calcif	234Th	Si>1500	MRB	Nd-iso>15	Bottle
VOL (L)	24x5				0,2	1		1,5	0,25	0,1	0,35	0,2	0,15	0,1	0,15	2,5	2	2,5		0,1	10	0,1	0,7	2	10,9	2	4	10	VOL (L)
1	Bot-20	75								✓ Radium																			1
2	Bot-20	75								✓ Radium																			2
3	Bot-20	75								✓ Radium																			3
4	Bot-20	75								✓ Radium																			4
5	Bot-20	75								✓ Radium																			5
6	Bot-20	75								✓ Radium																			6
7	Bot-20	75								✓ Radium																			7
8	Bot-20	75								✓ Radium																			8
9	Bot-20	75								✓ Radium																			9
10	Bot-20	75								✓ Radium																			10
11	Bot-20	75								✓ Radium																			11
12	30	27								✓ Radium																			12
13	30	27								✓ Radium																			13
14	30	27								✓ Radium																			14
15	30	27								✓ Radium																			15
16	30	27								✓ Radium																			16
17	30	27								✓ Radium																			17
18	30	27								✓ Radium																			18
19	30	27								✓ Radium																			19
20	30	27								✓ Radium																			20
21	30	27								✓ Radium																			21
24	30	27								✓ Radium																			24

C_45_122

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 18.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered | Filtered | Ultrafiltered

Gallium (filtered)

Bottle	Spare line	justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes	Ga	Swinnex #	N,P,Si	Fe	DFM	dFe	Ligands (125mL)	Humics (60mL)	Fluorine 1	Fluorine 2	Cation	REES	Zn isotopes	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1			75		V.	V.	V.		X.	V.	V.	V.	V		.	.	.	.	...	.	0	'	0	.	.	.					50	1
2			75	pTM																												2
3			75																													3
4			75																													4
5			75																													5
6			75																													6
7			75	pTM																												7
8			75																													8
9			75																													9
10			75																													10
11			75	pTM																												11
12			75																													12
13			30																													13
14			30		V.	V.	V.		X.	X	V.	V.	.	V	.	.	.	.	.	.	.	.	.	V.	.	.						14
15			30	~~pTM~~																												15
16			30	~~pTM~~																												16
17			30																													17
18			30	pTM																												18
19			30	pTM																												19
20			30	(Heather)																												20
21			30	pTM																												21
22			30	Heather																												22
23			30	Heather																												23
24			30	Heather																												24

Particulate trace metals: connect directly the filter holder and let it flow !

Particulate trace metals: connect directly the filter holder and let it flow !

Particulate trace metals: connect directly the filter holder and let it flow !

Particulate trace metals: connect directly the filter holder and let it flow !

4 ~~45X~~ 50 7

3.9 ~~44X~~ 14

3.9 35X 8

2.1 20X 12

2.0 64 3

1.6 49X 10

Blank 37X 40 flux #2 1.2L

S_45_123

CTD_S_45_cast 123

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	123
CAST	
DEPTH	80

DATE: 18.02.2021
SAMPLING START (GMT): ~~16~~ 4 53 2
SAMPLING END (GMT):
Secretary:

Cast / E6

Sampling: OISO Team
Sampling: users

Bottle	TARGET	ANTICIPATED Optimized	DONE REAL	Spun Line	CH4	Oxygen Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chla <200	Chla vol	FRRF	OMIC (3 dep	CYTO	Nitrif	calcif	234Th	Si>1500	MRB	Nd-iso>15	Bottle
VOL (L)		501 = 6			0,2	1		1,5	0,25	0,1	0,35	0,2	0,15	0,1	0,15	2,5	2	2,5		0,1	10	0,1	0,7	2	10,9	2	4	10	VOL (L)
1	75	71	done																										1
2	75					25 X	3,1	02C X			75 X																		2
3	75		DONE																										3
4	75				oui X																								4
5	75	76			NON																				SI X	SI			5
6	60	60				26 X	3,1	06C X			76 X		X.				X.	X.		X.			X.						6
7	60		DONE										X.																7
8	60		done																										8
9	60																												9
10	40	40	done																						SI X	SI			10
11	40																												11
12	40				X								X.				X.	X.		X.					SI X	SI			12
13	40					27 X	3,1	13C X			72 X																		13
14	30	30	DONE																										14
15	30		done																										15
16	30				X	28 X	3,3	16C X	16 X	16 X			X.				X.	X.		X.			X.						16
17	30																												17
18	20	21			X	29 X	3,4	18C X			78 X		X.												SI X	SI			18
19	20	21						19C X																					19
20	10	12						20C X	20 X	20 X																			20
21	10	0,	DONE																						SI X	SI			21
24	10	7			X								X.				X.	X.		X.			X.						24

33 930
33 930
33.930
33 930

Prélèvement de 75 m fait sur la 4

Prélèvement artistique en surf par Fabien.

#20, 21, 24 @ 10m : RADIUM.

CTD_S_46_PVB_Ra CAST 124

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE:
SAMPLING START (GMT):
SAMPLING END (GMT):

Secretary: CC

BARIUM

Sampling: OISO Team

Sampling: users

	ANTICIPATED		DONE					Oxygen																						
Bottle	TARGET	Optimized	REAL	Spun Line	CHH4	Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 Isot	DON Isot	POC/PON	HPLC	Chla <200	Chla vol	FRRF	ChlC2-3 dep	CYTO	Nitrif	calcif	234Th	Si>1500	MRB	Nd-Iso>15	Bottle
VOL (L)					0,2	1		1,5	0,25	0,1	0,35	0,2	0,15	0,1	0,15	2,5	2	2,5		0,1	10	0,1	0,7	2	10,9	2	4	10	VOL (L)
1	Bot-20		106							Radium															X				1
2	Bot-20									Radium																			2
3	Bot-20									Radium																			3
4	Bot-20									Radium																			4
5	Bot-20									Radium																			5
6	Bot-20									Radium																			6
7	Bot-20									Radium																			7
8	Bot-20									Radium																			8
9	Bot-20									Radium																			9
10	Bot-20									Radium																			10
11	Bot-20									Radium																			11
12	30		30							Radium																			12
13	30									Radium																			13
14	30									Radium																			14
15	30									Radium															X				15
16	30									Radium																			16
17	30									Radium																			17
18	30									Radium																			18
19	30									Radium																			19
20	30									Radium																			20
21	30									Radium																			21
24	30									Radium																			24

C-46-125

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE:
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes		Tommy/Lin	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (12SmL)	Humics (60mL)	Fluorine 1	Fluorine 2	Cation	REES	Zn isotopes	dTMA	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1		104	bottom							NO																							1
2			bottom																									12					2
3			bottom			FILTER																						3			3	47X	3
4			bottom																														4
5			bottom																														5
6			bottom																														6
7			bottom			FILTER																											7
8		104	bottom																									10			3.1	9	8
9			75																														9
10			75																														10
11			75			FILTER																						6			2.9	12X	11
12			75																														12
13			75							NO		NO													NO			20					13
14			75		FILTER																							5			3	22X	14
15			75																														15
16			75																														16
17			30		FILTER																							14			2.4	25X	17
18			30																														18
19			30																														19
20			30																														20
21			30	s: connect directly the filter holder and let it flow !							FILTER																	7			3.1	39X	21
22			30																														22
23			30																														23
24			30							NO		NO													NO			8					24

Particulate trace metals: connect directly the filter holder and let it flow !

Particulate trace metals: connect directly the filter holder and let it flow !

Btl #1 → broke before cast

Blank Btl #3 swinnex #29 → 1L

46

CTD_S_45_cast 126 ou 127

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: Secretary:
SAMPLING START (GMT):
SAMPLING END (GMT):

Sampling: OISO Team | Sampling: users

	ANTICIPATED		DONE					Oxygen																							
Bottle	TARGET	Optimized	REAL	Spun Line	CHH4	Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 Isot	DON Isot	POC/PON	HPLC	Chla <200	Chla vol	FRRF	OMIC (3 dep	CYTO	Nitrif	calcif	234Th	Si>1500	MRB	Nd-Iso>15l	Bottle
VOL (L)					0,2	1		1,5	0,25	0,1	0,25	0,2	0,15	0,1	0,15	2,5	2	2,5		0,1	10	0,1	0,7	2	10,9	2	4	10	VOL (L)
1	ot-20 (100)		102	✓																									1
2	Bot-20		1			✓		✓			✓																⌐		2
3	Bot-20																												3
4	Bot-20		1																							SI X	X		4 ✓
5	Bot-20		1										✓				✓	✓		✓				✓					5
6	60		60			✓		✓			✓		X													oui			6
7	60	done	✓																										7
8	60																												8
9	60																									SI			9
10	40		40																										10
11	40																									SI X	SI X		11
12	40												X				X	X		X									12
13	40					✓		✓			✓																		13
14	30		30	✓																									14
15	30		1																									/	15
16	30					✓		✓			✓		✓				✓	✓		✓				✓					16 → open/empty
17	30																X	X		X				X	SI X	SI X		17
18	20		20			✓		✓			✓		X																18
19	10		9																										19
20	10							✓	✓	✓																SI ✓	SI ✓		20
21	10																												21
24	10												X				X	X		X				X					24

MO δ18O / MO S

Dernier = 60 m prélevé sur n° 6

open?

locking

OUBLI de daquer

33,93

33,93

33,93

33,93

Cast 127

Core = 127

Une carotte prélevée devant Heard station 46 de 18/02/21 - Appui ha !