

16:00 connecting ^{gas} tubing
14:16 ^{CH₃I} (lock time)
20:20

Bottle	Span time	verification	target	Sample ID	Thg	DCM	Meq/L	Salinity	DOC	OMICS	Nitrate	Isotope oxidation	Summer #	N:P:Si	σ _t	DTM	DAI	ligands (125ml)	humus (60ml)	fluorine 1	fluorine 2	Cation	REES	Zn	Isotope Pb	Isotope kinetics	oxidation	DTM	Bucket #	unfiltered (filtered)	collected (for filtered)	Volume filtered (L)	Bottle		
1	9122	2176	Bottom-30			✓	✓	✓	✓		56	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓	2	20	✓	✓	2.5	1
2	9118	2100			✓	✓	✓	✓	✓		55	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	5.4	2	
3	1921	1950			✓	✓	✓	✓	✓		54	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	10.2	3	
4	1729	1750 max Si			✓	✓	✓	✓	✓		52	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	4.85	4	
5	1524	1517	1500 mn O2		✓	✓	✓	✓	✓		51	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	3.2	5	
6	1194	1160	1150 mn S2		✓	✓	✓	✓	✓		50	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	3.3	6	
7	1022	1010	1000		✓	✓	✓	✓	✓		49	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	9.2	7	
8	915	900	900		✓	✓	✓	✓	✓		48	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	4.75	8	
9	763	752	750 max O2		✓	✓	✓	✓	✓		47	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	4.75	9	
10	614	601	600		✓	✓	✓	✓	✓		46	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	4.5	10	
11	510	503	500		✓	✓	✓	✓	✓		45	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	11	
12	403	402	400		✓	✓	✓	✓	✓		44	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	12	
13	350	351	350		✓	✓	✓	✓	✓		43	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	13	
14	307	300	300		✓	✓	✓	✓	✓		42	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	14	
15	245	247	250 max S		✓	✓	✓	✓	✓		41	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	15	
16	194	200	200		✓	✓	✓	✓	✓		40	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	16	
17	178	178	180		✓	✓	✓	✓	✓		39	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	17	
18	153	155	160		✓	✓	✓	✓	✓		38	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	18	
19	133	138	140		✓	✓	✓	✓	✓		37	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	19	
20	111	116	120		✓	✓	✓	✓	✓		36	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	20	
21	95	98	100 (DCM)		✓	✓	✓	✓	✓		35	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	21	
22	72	75	80		✓	✓	✓	✓	✓		34	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	22	
23	53	56	30		✓	✓	✓	✓	✓		33	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	23	
24	23	29	30		✓	✓	✓	✓	✓		32	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	20	✓	✓	2	24	

number of bottles per parameter

7
bottle
Leaking
bottom

⑤ 2000-1816
Leak from top
(slightly fur 16)

changed for 49x → changed 14x

no particle blank for this section

☞ unfiltered

DOC: 2, 6, 9, 11, 15, 16, 18, 19, 20, 21, 22, 23

SWG-5-03-012

CTD, S. Basic

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION: 03
CAST: 012
DEPTH: 2134

DATE: 18/11/21
SAMPLING START (GMT): 15:35
SAMPLING END (GMT):

Secretary: Catherine
pélagie c4to
analyse de données confirmée

Sampling: ORO team

Sampling: users

ANTICIPATED		DONE		Oxygen												OMC (3 d CTD)		Nitrif		Calcif		SS-1500		Ba at 2000 m		Nd-1500-15000 g/m		vol vert		Bottle
Bottle/TARGET	Optimized	REAL	Spun line	Flasher	Tp	DIC-AIK	180C	1880	Salinity#	M.P.SI	NH4-300	NO3-300	DON-300	POC/PON	IPIC	Chla-2000	FRFR													
1 Bottom-30		2170	2150	1	8.4	110	53-1	1145																					1	
2 2100		2108	2177	2	10.8	120	53-2	1146																					2	
3 2100		2109	2172																										3	
4 1750 mksi		1730	1755	4	9.2	140	53-4	1147																					4	
5 1500 mmsi		1517	1506	5	12.2	10.2	53-5	1148																					5	
6 1150 mms		1100	1101	6	11.3	160	53-6	1149																					6	
7 1150 mms		1111	1105																										7	
8 600 mmsi		608	605	8	14.3	180	53-8	1150																					8	
9 600 mmsi		607	605																										9	
10 500		506	503	10	12.2	100	53-10	1151																					10	
11 400		401	402	11	15.1	110																							11	
12 300		301	302	12	16.2	120																							12	
13 250 mms		250	250	13	16.3	130	53-13	1152																					13	
14 200		200	200	14	18.0	140																							14	
15 180		186	180	15	18.4	150																							15	
16 160		160	161	16	18.8	160	53-16																						16	
17 140		140	140	17	18.4	170	53-17																						17	
18 120		122	120	18	20.1	180	53-18																						18	
19 90 (DCM)		110	111	19	20.4	190	53-19	1153																					19	
20 80		81	81	20	22	200	53-20																						20	
21 30		20	21	21	25	210	53-21																						21	
24 5		5	5	24	25	240	53-24																						24	

de dupliquer aussi à être

nutrient
or in clean
only

ya rien de trou
vous (grosse machine to)

Ra-

Station: **SWG_03_013_P** Lat: **30°17.999 °S**
Bottom Depth: **2182 m** Long: **32°48.004 °E**

Cast ISO: CI, MRB, PVB

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	1	0,1	5,1	-7	2147		ISPCa 3	HM2	SUPOR	21,08	21,946	866	x2	ok
2	5	1	0,8	10,9	40	2100		ISPCa 4	HM1	SUPOR	42,507	43,514	1007	x2	ok
3	5	1	5,8	21,7	390	1750		ISPCa 6	ML3	SUPOR	27,072	28,085	1013	x2	ok
4	5	1	4,5	31,2	660	1480		ISPCa 7	ML2	SUPOR	45,424	46,292	868	x2	ok
5	5	1	7,7	43,9	1120	1020		PIS 007	HM6	SUPOR	3,027	4,185	1158	x2	ok
6	5	1	4,5	53,4	1390	750		PIS 009	HM7	SUPOR	65,191	66,238	1047	x2	ok
7	5	1	4,2	62,6	1640	500		PIS 010	HM8	SUPOR	90,362	91,511	1149	x2	ok
8	5	1	5,7	73,2	1880	160		PIS 011	HM3	SUPOR	70,653	71,497	844	x2	ok
9	5	1	1,0	79,2	2040	100		PIS 012	HM4	SUPOR	173,005	173,287	282	x2	ok
10	5	1	1,2	85,4	2110	30		PIS 013	HM5	SUPOR	1,7303	1,8692	138,9	x2	ok
Total (min)	50		35,4		2140										
Total (heure)	0,83333														
Longueur totale filée															
Deployment start time										Date		Onboard time		TU	
19/01/2021										19/01/2021		16:30		14:30	

Remarques:
Hauteur de la bordée: 8 m

Total deployment (min)	85
Total recovery time (min)	85

Cruise: SWIMS 2021
Ship: N/O Marion Dufresne

STATION	4
CASE	14
DEPTH	650

DATE: 20/01/21
SAMPLING START (GMT): 13:20
SAMPLING END (GMT): 18:01

Unfiltered

Filtered

Ultrafiltered

Bottle	Span time	utilization	target	Sample ID	THg	DSM	Melt	Salinity	DOC	OMICS	nitrate	iodate	oxidation	swimmer #	N.P.S.I	dfe	DTM	d4d	ligands (125ml)	fluoride (60ml)	fluorine 1	fluorine 2	Cation	REES	Zn isotopes	Pb isotopes	DTM	Bucket #	unfiltered for filtered bucket	Volume filtered (l)	Bottle
1	620		Bottom-30		V.	V.	V.	1621	V.		69	V	V	22	V.	V.	V.		V.	V.				V.	NO	10	V.	16			2
2	620		Bottom-30	Damien	V.	V.	V.	1630	V.		68	V	V	11	V.	V.	V.		V.	V.				V.	NO	10	V.	6			3
3	620		600		V.	V.	V.	1630	V.		67	V	V	16	V.	V.	V.		V.	V.				V.	NO	10	V.	23			4
4	504	max 0x	500		V.	V.	V.	1640	V.		67	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	161			5
5	404	100	400	Damien	V.	V.	V.	165	V.		66	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	161			6
6	404	100	400		V.	V.	V.	165	V.		66	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	161			7
7					V.	V.	V.	166	V.		65	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			8
8	344	340	300		V.	V.	V.	166	V.		65	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			9
9	344	340	300	Damien	V.	V.	V.	166	V.		65	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			10
10					V.	V.	V.	167	V.		64	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			11
11	253		250		V.	V.	V.	167	V.		64	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			12
12	204		200	Damien	V.	V.	V.	167	V.		64	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			13
13					V.	V.	V.	168	V.		63	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			14
14	203		200		V.	V.	V.	168	V.		63	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			15
15	180		180		V.	V.	V.	169	V.		62	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			16
16	162		160	Damien	V.	V.	V.	170	V.		61	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			17
17	151		150		V.	V.	V.	170	V.		60	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			18
18	126		125		V.	V.	V.	171	V.		60	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			19
19	101		100	Damien	V.	V.	V.	172	V.		59	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			20
20	100		100		V.	V.	V.	172	V.		59	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			21
21	76	DSM/75	DSM/75	Damien	V.	V.	V.	173	V.		58	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			22
22	76	DSM/75	DSM/75		V.	V.	V.	173	V.		58	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			23
23	39	38	30	Damien	V.	V.	V.	174	V.		57	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			24
24	38	38	30		V.	V.	V.	174	V.		57	V	V	18	V.	V.	V.		V.	V.				V.	NO	10	V.	9			25

number of bottles per parameter 13 13 13 13 13 0 5 29x 0 13 13 13 13 6 13 13 1 1 1 13 10 8 13 0 0 0 0 0 0

Go to #8 → SWIMEX #12 → blank

04-015

CTD_S_Basic

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	04
CAST	15
DEPTH	647

DATE: 20/01/21
SAMPLING START (GMT):
SAMPLING END (GMT):

Secretary:

Sampling: OKO team

Sampling users:

Heathfield Toulou

ANTICIPATED		DOING		Oxygen												Ba at 2000 m												Nd-150		Thred		Bottle
Bottle/Depth	Optimized	REAL	Spin Line	Flasks	Tp	DIC-Air	180C	180O	Salinity#	N.P.SI	NH4-300	NO3 hot	DON hot	POC/PON	HPIC	Chloro-200	FRAP-OM	CYTOMH#	CalDS-1500	Ba at 2000 m	Nd-150	150RADUM	Thred	VOL (L)								
1	Bottom-30	623		1		2.5				0.25	0.1	0.35	0.2	0.25	0.1	0.15	2.5	0.1	10	0.1	0.7	2	2	4	10	10.9	12.1	1				
2	Bottom-30	623																										2				
3	500	504			3	X12.5	3C	X	54	3	X	154																3				
4	500	504																										4				
5	400gr	400																										5				
6	400gr	400																										6				
7	350	351			7	X13.8	7C	X	54	7	X	155																7				
8	250mx02	247																										8				
9	250mx02	247																										9				
10	250mx02	247			10	X15.5	10C	X	54	10	X	156																10				
11	130	130			11	X18.2	11C	X	54	11	X	157																11				
12	80	89																										12				
13	80	89																										13				
14	80	89																										14				
15	60	60			13	X18.8	13	X	44	X	158	159																15				
16	38	36																										16				
17	38	36																										17				
18	15	16																										18				
19	12	12																										19				
20	11	11			20	X26.2	20C	X	54	20	X	160																20				
21	9	9																										21				
24	8	8																										24				

B16: NA 7 ltr
B11: Th Fred 3 ltr

+ = prelevement
de restes

montage pour
comparer de 14
ou aussi que 10L
pour NA 150

Station: SWG_04_016_P

Bottom Depth: 646 m

Lat: 29°48.595 °S

Long: 31°41.762 °E

Bottom Depth: 646 m																	Long: 31°41.762										E	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.	Cast ISO			Cast TM									
																CJ	MRB	P-VB	FP	HP + NL	L-E. H.		CJ	DC				
1	5	1	0.1	5.1	-7	616		ISPCa 4	HM1	SUPOR	43,514	43,515	44,454	979	x2	X								Pieter: Tête de filtre ouverte sur le pont pour remplacer le joint + besciole gélatineuse				
2	5	1	0.3	10.5	13	596		PIS 021 +TLOG	PIS021 FH1	SUPOR		1,5524	2,0656	513.2					X			X		Fred/Noiwenn				
									PIS021 FH2	P1/P2/QMA		1,6497	2,6207	971					X									
									EXH			3,0353	4,5306	1455.3														
3	5	1	1.6	17.1	109	500		ISPCa 6	ML3	SUPOR	26,085	26,088	26,643	555	x2	X				X		X	Pieter					
4	5	1	0.3	22.4	129	480		PIS 010	HM8	SUPOR	91,511	91,516	92,349	833					X			X	Noiwenn					
5	5	1	1.3	28.7	209	400		ISPCa 7	ML2	SUPOR	46,292	46,295	41,212	917	x2	X							Fred/Noiwenn: Max Chlora, FH2 : filament marron sur la tête, organisme sur filtre					
6	5	1	1.7	35.4	309	300		PIS 012	HM4	P1/P2/QMA	173,287	173,289	174,576	1287				X		X			Fred					
8	5	1	0.8	41.2	359	250		PIS 013	HM5	SUPOR	1,8692	1,8728	2,6205	747.7	x2	X						X	X	Pieter: Besson d'une grande vis en nylon (pas une petite)				
7	5	1	0.3	46.6	379	230		PIS 011 +TLOG	HM3	SUPOR	71,497	71,504	72,426	922					X		X		X	Noiwenn				
9	5	1	1.3	52.9	459	150		ISPCa 3	HM2	P1/P2/QMA	21,946	21,948	23,227	1279					X		X			Fred				
11	5	1	1.0	58.9	519	90		PIS 007	HM6	SUPOR	4,185	4,185	5,259	1074	x2	X								Pieter				
10	5	1	0.3	64.2	539	70		ISPCa 2	ML1	P1/P2/QMA		8,775	10,169	1394					X		X		X	Fred Répartition non homogène des particules sur le 50 micron				
									PIS 020 FH1	SUPOR		2,3394	2,6379	298.5														
12	5	1	0.5	69.7	559	40		PIS 020	PIS 020 FH2	P1/P2/QMA		2,1729	2,8944	721.5					X		X			Fred/Noiwenn: Max Chlora, FH2 : filament marron sur la tête, organisme sur filtre				
									EXH			4,2939	5,3084	1015.5														
13	5	1	0.4	75.1	594	15		PIS 009	HM7	SUPOR	66,238	66,244	66,66	416	x2	X								Pieter				

Total (mm)	65	10.1	616
Total (heures)	1.08333		

Longueur totale filée

Date		Onboard time		TU	
Deployment start time		20/01/2021		13:30	
Pump start date:		20/01/2021		15:00	
Pump end date:		20/01/2021		18:00	
Pump onboard:		20/01/2021		19:00	

Remarques:

Hauteur de la bordée: 8 m

Temps additionnel pour déployer le carottier 10 min

Total deployment (min)	80
Total recovery time (min)	80

1ère pompe à l'eau : 13:55

Dernière pompe à l'eau 14:55

05_017

CTD_S_Basic

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	25
CAST	17
DEPTH	

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

Secretary: Kéline

Sampling: OISO Team

Sampling: users

ANTICIPATED		UNIT		Oxygen										Sampling: users										Bottle	
Bottle/TARGET	Optimized	REAL	Spin Line	Fish#	Tr°	DIC-AIK	138C	138O	Salinity#	N.P.SI	NH4-300	NO3 Isot	DOH Isot	POC/PON	HPIC	Chl-a-200	FRF-OMIC (3 d)	CTD-OMIC (3 d)	Calc-Sp-1500	Ba at 2000 m	Nd-150-15d	BA DIUM	Thred	Bottle	
COL (b)							1.5	0.25	0.3	0.25	0.2	0.15	0.1	0.25	2.5	2	2.5	0.1	10	0.1	0.2	2			1
1 Bottom-30		1018	1041																						2
2 Bottom-30		1018	1041																						3
3 Bottom-30		1018	1041	1	3.7				✓ 17.8																4
4	800	800	815																						5
5	800	800	815																						6
6	800	800	815																						7
7	800	800	815	2	3.4				✓ 17.6																8
8	600	600	610																						9
9	600	600	610																						10
10	600	600	600																						11
11	400	400	402																						12
12	400	400	402																						13
13	400	400	402	4	13.5				✓ 17.7																14
14	400	400	402																						15
15	250	249	251																						16
16	250	249	251																						17
17	90	91	90																						18
18	90	91	90																						19
19	50	50	50																						20
20	50	50	50																						21
21	15	14	14	5	23.0				✓ 17.8																24
24	15	14	14																						

+ Rab d'ear

65_018

CID_C

Sampling Sheet #

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION
CAST
DEPTH

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

Unfiltered

Filtered

Bottle	Span line	Justification	target	Sample ID	Thg	DCM	Methg	Salinity	DOC	Nitrate	iodide	oxidation	Swimex #	N.P. SI	dFe	dTM	dAl	Ligands (125mL)	Humics (60mL)	Fluorine 1	Fluorine 2	Cation	REES	Zn isotope	Pb isotope	dTM	Bucket #	unfiltered collected	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1	1120		Bottom-30																													2
2			Bottom-30																													4
3			Bottom-30																													5
4			Bottom-30																													3
5			Bottom-30																													7
6			Bottom-30																													8
7			Bottom-30																													10
8			Bottom-30																													11
9			Bottom-30																													13
10			Bottom-30																													14
11			Bottom-30																													15
12			Bottom-30																													16
13			Bottom-30																													17
14			Bottom-30																													18
15			Bottom-30																													19
16			Bottom-30																													20
17			Bottom-30																													21
18			Bottom-30																													22
19			Bottom-30																													23
20			Bottom-30																													24
21			Bottom-30																													25
22			Bottom-30																													26
23			Bottom-30																													27
24			Bottom-30																													28

number of bottles per parameter

11 11 11 11 11 5 0 10 10 10 10 4 10 10 1 1 1 8 8 8 6 0 0 0 0 0 0

+ PA: 1; 4; 6; 8; 11; 14; 15; 16; 18; 20; 22 } Infused.
Phyco A: 11; 14; 15; 16; 18; 20; 22

to be available

CTD_S_Basic

Cruise: SWINGS 2021
Ship: N/O Marion Dufrene

STATION	
CAST	
DEPTH	

DATE: 9/10/19
SAMPLING START (GMT): 00:21
SAMPLING END (GMT): 2:36
Secretary: LI

Sampling: CISO Team

Sampling: users

Bottle/TARGET	ANTICIPATED		REAL	Spun line	Oxygen		DIC/ALK	138C	188O	Salinity#	N/P Si	NH4-300	NO3 isot	DON isot	POC/PON	HPLC	Chloro-200	FRAP-OMC (3)	ELECTRONIC	CALSIP-1500	Ba at 2000 m	Nd-140-15	RADIUM	Th/red	Bottle
	Optimized				Flask#	TP																			
1	350		351		6	14.6				191x															1
2	300		301		8	15.5				192x															2
3	300		301																						3
4	250		249		X																				4
5	200		200																						5
6	150		151																						6
7	150		151																						7
8	120		121		9	13.7				193x															8
9	90		91																						9
10	60		60																						10
11	50		50																						11
12	30		30																						12
13	20		20		12x	26.9				194x															13
14	15		15																						14
15	15		15																						15
16	15		16																						16
17	15		16																						17
18	15		16																						18
19	15		16																						19
20	15		16																						20
21	15		16		15	24.3				195x															21
24	15		16																						24

RN Q: Robinet dur sur 6 et 11
bouteilles 13 et 8 pas assez d'eau
(presque 1L de moins)

06-020

CTD_S_Basic

Cruise: SWINGS 2021
Ship: N/O Martin Dufrene

STATION	6
CASE	20
DEPTH	3000

DATE: 21/01/21
SAMPLING START (GMT): 11:10
SAMPLING END (GMT): 8:25
Secretary: SS

COB

Sampling: ORO Team

Sampling users

Tracy/Heather

Primarily Prod.

ANTICIPATED		REAL		Oxygen		DIC-MK		138C		138O		Salinity		N.P.SI		NH4-300		NO3-300		DON-300		POC/PON		HTC		Chl-a-200		PAR		OMC (3 depth CTD)		NH4		Calc		SS-1500		Be at 2000 m		Mid-depth SODIUM		Thi-red		Bottle																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
Bottle/LABET	Optimized	REAL	Spun time	Flask	TP	DIC-MK	138C	138O	Salinity	N.P.SI	NH4-300	NO3-300	DON-300	POC/PON	HTC	Chl-a-200	PAR	OMC (3 depth CTD)	NH4	Calc	SS-1500	Be at 2000 m	Mid-depth SODIUM	Thi-red	Bottle																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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- Fluorax : 70 m 0,38 ml/l
- MaxT, S : 865 db

5 ml fermeé

3 Bot -> Nd

Caractériser undercurrent
at 800 m (869 db)
rester de catcher solo
mes Roug (O₂ min)

SWG-07-21

STATION	
CAST	
DEPTH	

Secretary

 $\angle$

Min d' O₂ on sub surface : entre 130 et 150 cm

11 $\rightarrow$ Felsen

846-7-22

Station	7
Lat	32.6
Long	33.3997
Date (UTC)	1/21/21
Time (UTC)	22:02
Cast #	22
Bottom Depth (m)	3573
Mixed Layer (m)	50
Target Depths	100,80,60,40,25

Tank	5	Depth (m)	100	Fill tanks	1/21/21 22:02	1/21/21 22:44	66256.5	Start	Stop		
				Flow through	1/21/21 23:20	1/21/21 23:35	66398.2				
				Gallons	0:36	141.7					
Tank	4	Depth (m)	80	Fill tanks	1/21/21 23:24	1/21/21 23:44	66398.2	Start	Stop		
				Flow through	1/22/21 0:02	1/21/21 23:20	66538.3				
				Gallons	0:38	140.1					
Tank	3	Depth (m)	60	Fill tanks	1/22/21 0:25	1/21/21 23:28	66538.3	Start	Stop		
				Flow through	1/22/21 1:15	1/22/21 0:08	66705.5				
				Gallons	0:50	167.2					
Tank	2	Depth (m)	40	Fill tanks	1/22/21 9:19	1/22/21 0:08	117192	Start	Stop		
				Flow through	1/22/21 10:01	1/22/21 0:42	117329.8				
				Gallons	0:42	137.8					
Tank	1	Depth (m)	25	Fill tanks	1/22/21 0:44	1/22/21 10:05	117329.8	Start	Stop		
				Flow through	1/22/21 10:46	1/22/21 1:15	117467				
				Gallons	0:41	137.2					
Tank		Depth (m)		Fill tanks				Start	Stop		
				Flow through							
				Gallons							

C-08-23

SWINGS 2021
SHIP: N/O Marion Dufrenoy
Stephane: dTM/DOC/nutrients
8 depths max
DATE: 22/10/19
SAMPLING START (GMT): 19:45
SAMPLING END (GMT):
Tommy: nitrate isotopes
Nella: The all, DGM 1 depth, Merl all NG

Nolwenn: 17 depth Zn
Bruno: 4 depths

unfiltered

Unfiltered		Filtered																																
Bottle	Sample time	Justification	target	Sample ID	TTR	DGM	Meff	Salinity	DOC	OMICS	Nitrate isotopes	Isotopes for oxidation	Swimmers #	N/P/SI	dfe	dTM	dM	ligands (125mL)	Humics (60mL)	fluorine 1	fluorine 2	Cation	REES	Zn isotopes	kinetics	oxidation	dTM	Bucket #	unfiltered (filtered)	collected for filtered	Volume (bucket)	Volume (filtered L)	Bottle	
1	3692		Bottom-30	empty																														1
2	3653		3000																															2
3	3619		3000																															3
4	2990	max OK	2750																															4
5	2521		2500																															5
6	2079		2000																															6
7	1516	min OK	1500																															7
8	1258	sal min	1250																															8
9	1258		1250																															9
10	1011		1000																															10
11	809		800																															11
12	706		700																															12
13	605		600																															13
14	405	max sal OK	400																															14
15	404	max sal OK	400																															15
16	303		300																															16
17	253	ox and sal	250																															17
18	253	ox and sal	250																															18
19	201		200																															19
20	141		140																															20
21	122		120																															21
22	94	95	100																															22
23	70	70	50																															23
24	31		30																															24

2L from Nodum n

37X (GDFLO-23)

2L from Nolwenn

* GDFLO 1 is empty!
* GDFLO 7 just at the bottom.

PA: 3, 6, 8, 11, 14, 17, 19, 20, 22, 23, 24
+ platform: 17, 19, 20, 22, 23, 24
+ the 4L for Zn isotopes.

#74 → Filter advanced after 1.7L

CTD_S_Basic

S-02-24

Client: SWINGS 2021
Ship: N/O Marden Dufresne

STATION	07
CST	24
DEPTH	

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

Secretary: *Geoffrey Hedline*

Sampling: OISO Team

Sampling: users

BOTTLE/TARGET		ANTICIPATED		Oxygen		DIC-M		136C		1660		Salinity		N:P:Si		NH4<300		NO3<300		DON<300		POC/PON		HPLC		Chl-a<200		PFRF		OMC (3 d CTD)		OMC (3 d CTD) (HPLC)		OMC (3 d CTD) (HPLC) 1500		Ba at 2000 m		Nd-140>1500		Thi-red		Bottle																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
		Optimized	REAL	Spun Line	Freeze T _p																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

number of bottles per parameter

H14 finally results book
NH4 at 9040

11° Change les bouillons
17°
6°

BG 3 PAB cases
B16 B20 B21 (21)
(5,51) (41)

OISO 31

SWG-5-08-0274

DATE: 22/01/2021

STATION n°

Pression pont avant descente =

DESCENTE	DEBUT	Heure TU :	Sondeur (ms) :	=	(m)
		Lat. :	Long. :		
	FIN	Heure TU :			
		Lat. :	Long. :		

PINGER : arrêt de la sonde à m du fond

REMONTÉE	DEBUT	Heure TU :	Sondeur (ms) :
	FIN	Heure TU :	
		Lat. :	Long. :

Pression pont après remontée =

Num Bout	Prof Prescrite	num declench	Poulie Compteuse	PRESSION	TEMPER.	SALINITE
1	3656	1				34,75
2	3300	2				34,79
3	2800	3				34,79
4	2249	4				34,76
5	2000	5				34,7
6	1600	6				34,56
7	1250	7				34,4
8	1000	8				34,57
9	800	9				34,79
10	600	10				35,4
11	500	11				35,26
12	400	12				35,37
13	350	13				35,42
14	300	14				35,57
15	250	15				35,56
16	200	16				35,58
17	159	17				35,59
18	118	18				35,6
19	86	19				35,6
20	77	20				35,59
21	41,6	21				35,6
22	X	22				
23	X	23				
24	16	24				35,6

OBSERVATIONS :

S-09.25

CID_S_Ra_Nd_P_Th

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	9
CST	
DEPTH	25

DATE: 23/01/21
SAMPLING START (GMT): 15h45
SAMPLING END (GMT): 17h30
Secretary: SS, CJ

Sampling: OISO Team

Sampling: users

Bottle	TARGET	ANTICIPATED		BOTTLE		OXYGEN		DIC-AIR	18C	1880	Salinity#	N.P. SI	NH4-KNO3	IADON	IAPOC/PMHC	Chloro-2/RRF	OMC	ICOTO	Nitrif	Calcif	SP-150Ba	at ZINC-150Ba	RADIUM	Thred	Bottle
		Optimized	REAL	Spun Line	Flash	Tr	Flash																		
1	bottom-30	5900	5910									X											X	+	1
2	Bottom -30	5900	5930									X											X	+	2
3	5050(AABW)	5050	5143									X											X	+	3
4	5050 (AABW)	5050	5143									X											X	+	4
5		4500	4593									X											X	+	5
6		4500	4583									X											X	+	6
7	4000 MRB		4067									X											X	+	7
8		3500	3554									X											X	+	8
9		3500	3554									X											X	+	9
10	2750 mx 02 et 5	3050	3096									X											X	+	10
11	2750 mx02 et 5	3050	3096									X											X	+	11
12	2300 MRB min si?	2300	2330									X											X	+	12
13	1700 min 02	1750	1769									X											X	+	13
14	1700 min02	1750	1769									X											X	+	14
15	1250 AAIW	1250	1263									X											X	+	15
16	1250 AAIW	1250	1265									X											X	+	16
17	1000 MRB		1010									X											X	+	17
18	600 max 02	680	686									X											X	+	18
19	600 max 02	680	685									X											X	+	19
20	250	180	184									X											X	+	20
21	250	180	185									X											X	+	21
24	30 CI MRB	30	37									X											X	+	24

+ : RADIUM a prelevé l'eau restante
dans les bouteilles de même profondeur

Ra et Si sont plus ou moins les mêmes Ra

920-50-9mg

Station	9
Lat	36.87083333
Long	35.22194444
Date (UTC)	1/23/21
Time (UTC)	16:50
Cast #	26
Bottom Depth	5872
Mixed Layer (m)	60-62.5
Target Depths	30,75,90,105,120

Tank	Depth (m)	Start	Stop	Fill tanks	Flow through	Gallons
5	120	1/23/21 16:53	1/23/21 17:27	1/23/21 17:30	1/23/21 18:16	117460.5
		1/23/21 17:27	1/23/21 18:16	1/23/21 18:16	1/23/21 19:02	117600.5
						140
						0:46
						147.8
Tank	Depth (m)	Start	Stop	Fill tanks	Flow through	Gallons
4	105	1/23/21 17:27	1/23/21 18:00	1/23/21 18:02	1/23/21 19:02	117748.3
		1/23/21 18:00	1/23/21 19:02	1/23/21 19:02	1/23/21 19:58	117877.2
						128.9
						0:50
Tank	Depth (m)	Start	Stop	Fill tanks	Flow through	Gallons
3	90	1/23/21 18:05	1/23/21 19:08	1/23/21 19:08	1/23/21 20:05	117877.2
		1/23/21 19:08	1/23/21 20:05	1/23/21 20:05	1/23/21 20:47	118067.3
						190.1
						0:32
Tank	Depth (m)	Start	Stop	Fill tanks	Flow through	Gallons
2	75	1/23/21 18:45	1/23/21 19:17	1/23/21 19:17	1/23/21 20:05	118067.3
		1/23/21 19:17	1/23/21 20:05	1/23/21 20:05	1/23/21 21:23	118201
						133.7
						0:37
Tank	Depth (m)	Start	Stop	Fill tanks	Flow through	Gallons
						0:34
						133.7
						0:37
						133.7
						0:34
						133.7
						0:37
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						0:34
						133.7

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	10
CST	27
DEPTH	

DATE: 24/01/21
SAMPLING START (GMT): 5 am
SAMPLING END (GMT): 8 am

0.3 → 3.56.10⁵
0.5 → 1.13.10⁵
5 → 1.41.10³

Unfiltered

Filtered

17 mg/L, 8.4
µM, 0.004

Bottle	Spun line	Justification	target	Sample ID	Thg	DGM	MeHg	Salinity	DOC	OMICS	Nitrate	IsotPs	Fe oxidation	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (125mL)	Humics (60mL)	Fluorine 1	Fluorine 2	Calon	REES	Zn isotopes	DTM	Bucket #	unfiltered filtered	collected for filtered bucket	Volume filtered (L)	Bottle
1	5746		Bottom-30					049						11x												2		6.7	1		
2	5090		5000					050						23x											NO	19		6.2	2		
3	4069		4000					051						45x														7.4	3		
4	3043		3000					052						49x														7.0	4		
5	2536		2500					053						47x														9.5	5		
6	2129		2100					054						1														X		6	
7	1770	0.0	1750			8		055	8					24											NO	21		5.8	7		
8	1517	0.0	1500			NO		056	NO					NO														7.8	8		
9	1365	0.0	1350			10		057						15x														4	9		
10	1011	0.0	1000			NO		058	10					1x											NO	22		0.4	10		
11	809		800					059	80					4x														4	11		
12	704		700					060						27														1.7	12		
13	606		600					061						16x														5.9	13		
14	504		500					062						50														7.8	14		
15	404		400					063						14														9.5	15		
16	354		350					064						44x														9.2	16		
17	302		300					065						25x														5.95	17		
18	252		250					066						6x														7.25	18		
19	202		200					067						26x														9	19		
20	152		150					068						27x														8.25	20		
21	101		100					069						42x														7.5	21		
22	76	0.0	75					070						18x														7.4	22		
23	51	0.0	50					071						29x														20.4	23		
24	32		30					072						37x														3.0	24		

BH #3 - leaking bottom
#6 →
#5 → Filter (14x) → 47x

min sd: 1350
min Dr: 1750

CTD_S_Basic

DATE: 24/6/24
STATION: 022028
CAST: 5354
DEPTH: 5354

DATE: 24/6/24
STATION: 022028
CAST: 5354
DEPTH: 5354

Secretary: C.B.

Sampling: CTD Team

Sampling: users

Anticorallite		Optimized	Reel	Span line	Oxygen		DC-MN	1-SC	1800	Salinity	N:P:Si	NH4:300	NO3:300	DON:300	POC:300	WPC	Chl-a:200	PRF	OMC (3 dCCTO:1000)	OMC (3 dCCTO:1500)	Bg at 2000 m	M4:1000	M4:1500	M4:2000	M4:2500	M4:3000	M4:3500	M4:4000	M4:4500	M4:5000	M4:5500	M4:6000	M4:6500	M4:7000	M4:7500	M4:8000	M4:8500	M4:9000	M4:9500	M4:10000	M4:10500	M4:11000	M4:11500	M4:12000	M4:12500	M4:13000	M4:13500	M4:14000	M4:14500	M4:15000	M4:15500	M4:16000	M4:16500	M4:17000	M4:17500	M4:18000	M4:18500	M4:19000	M4:19500	M4:20000	M4:20500	M4:21000	M4:21500	M4:22000	M4:22500	M4:23000	M4:23500	M4:24000	M4:24500	M4:25000	M4:25500	M4:26000	M4:26500	M4:27000	M4:27500	M4:28000	M4:28500	M4:29000	M4:29500	M4:30000	M4:30500	M4:31000	M4:31500	M4:32000	M4:32500	M4:33000	M4:33500	M4:34000	M4:34500	M4:35000	M4:35500	M4:36000	M4:36500	M4:37000	M4:37500	M4:38000	M4:38500	M4:39000	M4:39500	M4:40000	M4:40500	M4:41000	M4:41500	M4:42000	M4:42500	M4:43000	M4:43500	M4:44000	M4:44500	M4:45000	M4:45500	M4:46000	M4:46500	M4:47000	M4:47500	M4:48000	M4:48500	M4:49000	M4:49500	M4:50000	M4:50500	M4:51000	M4:51500	M4:52000	M4:52500	M4:53000	M4:53500	M4:54000	M4:54500	M4:55000	M4:55500	M4:56000	M4:56500	M4:57000	M4:57500	M4:58000	M4:58500	M4:59000	M4:59500	M4:60000	M4:60500	M4:61000	M4:61500	M4:62000	M4:62500	M4:63000	M4:63500	M4:64000	M4:64500	M4:65000	M4:65500	M4:66000	M4:66500	M4:67000	M4:67500	M4:68000	M4:68500	M4:69000	M4:69500	M4:70000	M4:70500	M4:71000	M4:71500	M4:72000	M4:72500	M4:73000	M4:73500	M4:74000	M4:74500	M4:75000	M4:75500	M4:76000	M4:76500	M4:77000	M4:77500	M4:78000	M4:78500	M4:79000	M4:79500	M4:80000	M4:80500	M4:81000	M4:81500	M4:82000	M4:82500	M4:83000	M4:83500	M4:84000	M4:84500	M4:85000	M4:85500	M4:86000	M4:86500	M4:87000	M4:87500	M4:88000	M4:88500	M4:89000	M4:89500	M4:90000	M4:90500	M4:91000	M4:91500	M4:92000	M4:92500	M4:93000	M4:93500	M4:94000	M4:94500	M4:95000	M4:95500	M4:96000	M4:96500	M4:97000	M4:97500	M4:98000	M4:98500	M4:99000	M4:99500	M4:100000	M4:100500	M4:101000	M4:101500	M4:102000	M4:102500	M4:103000	M4:103500	M4:104000	M4:104500	M4:105000	M4:105500	M4:106000	M4:106500	M4:107000	M4:107500	M4:108000	M4:108500	M4:109000	M4:109500	M4:110000	M4:110500	M4:111000	M4:111500	M4:112000	M4:112500	M4:113000	M4:113500	M4:114000	M4:114500	M4:115000	M4:115500	M4:116000	M4:116500	M4:117000	M4:117500	M4:118000	M4:118500	M4:119000	M4:119500	M4:120000	M4:120500	M4:121000	M4:121500	M4:122000	M4:122500	M4:123000	M4:123500	M4:124000	M4:124500	M4:125000	M4:125500	M4:126000	M4:126500	M4:127000	M4:127500	M4:128000	M4:128500	M4:129000	M4:129500	M4:130000	M4:130500	M4:131000	M4:131500	M4:132000	M4:132500	M4:133000	M4:133500	M4:134000	M4:134500	M4:135000	M4:135500	M4:136000	M4:136500	M4:137000	M4:137500	M4:138000	M4:138500	M4:139000	M4:139500	M4:140000	M4:140500	M4:141000	M4:141500	M4:142000	M4:142500	M4:143000	M4:143500	M4:144000	M4:144500	M4:145000	M4:145500	M4:146000	M4:146500	M4:147000	M4:147500	M4:148000	M4:148500	M4:149000	M4:149500	M4:150000	M4:150500	M4:151000	M4:151500	M4:152000	M4:152500	M4:153000	M4:153500	M4:154000	M4:154500	M4:155000	M4:155500	M4:156000	M4:156500	M4:157000	M4:157500	M4:158000	M4:158500	M4:159000	M4:159500	M4:160000	M4:160500	M4:161000	M4:161500	M4:162000	M4:162500	M4:163000	M4:163500	M4:164000	M4:164500	M4:165000	M4:165500	M4:166000	M4:166500	M4:167000	M4:167500	M4:168000	M4:168500	M4:169000	M4:169500	M4:170000	M4:170500	M4:171000	M4:171500	M4:172000	M4:172500	M4:173000	M4:173500	M4:174000	M4:174500	M4:175000	M4:175500	M4:176000	M4:176500	M4:177000	M4:177500	M4:178000	M4:178500	M4:179000	M4:179500	M4:180000	M4:180500	M4:181000	M4:181500	M4:182000	M4:182500	M4:183000	M4:183500	M4:184000	M4:184500	M4:185000	M4:185500	M4:186000	M4:186500	M4:187000	M4:187500	M4:188000	M4:188500	M4:189000	M4:189500	M4:190000	M4:190500	M4:191000	M4:191500	M4:192000	M4:192500	M4:193000	M4:193500	M4:194000	M4:194500	M4:195000	M4:195500	M4:196000	M4:196500	M4:197000	M4:197500	M4:198000	M4:198500	M4:199000	M4:199500	M4:200000	M4:200500	M4:201000	M4:201500	M4:202000	M4:202500	M4:203000	M4:203500	M4:204000	M4:204500	M4:205000	M4:205500	M4:206000	M4:206500	M4:207000	M4:207500	M4:208000	M4:208500	M4:209000	M4:209500	M4:210000	M4:210500	M4:211000	M4:211500	M4:212000	M4:212500	M4:213000	M4:213500	M4:214000	M4:214500	M4:215000	M4:215500	M4:216000	M4:216500	M4:217000	M4:217500	M4:218000	M4:218500	M4:219000	M4:219500	M4:220000	M4:220500	M4:221000	M4:221500	M4:222000	M4:222500	M4:223000	M4:223500	M4:224000	M4:224500	M4:225000	M4:225500	M4:226000	M4:226500	M4:227000	M4:227500	M4:228000	M4:228500	M4:229000	M4:229500	M4:230000	M4:230500	M4:231000	M4:231500	M4:232000	M4:232500	M4:233000	M4:233500	M4:234000	M4:234500	M4:235000	M4:235500	M4:236000	M4:236500	M4:237000	M4:237500	M4:238000	M4:238500	M4:239000	M4:239500	M4:240000	M4:240500	M4:241000	M4:241500	M4:242000	M4:242500	M4:243000	M4:243500	M4:244000	M4:244500	M4:245000	M4:245500	M4:246000	M4:246500	M4:247000	M4:247500	M4:248000	M4:248500	M4:249000	M4:249500	M4:250000	M4:250500	M4:251000	M4:251500	M4:252000	M4:252500	M4:253000	M4:253500	M4:254000	M4:254500	M4:255000	M4:255500	M4:256000	M4:256500	M4:257000	M4:257500	M4:258000	M4:258500	M4:259000	M4:259500	M4:260000	M4:260500	M4:261000	M4:2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