St # 31 - S - Cast 80

CTD_S_Basic_FULL

20:57 (PREP)

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	31
CAST	80
DEPTH	4240

DATE: 8/2/21 Secretary: SS
SAMPLING START (GMT): 3:47
SAMPLING END (GMT): 5:05

Pre 36

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	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>150	234Th	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	mxS1750	775				1.	2.6×	1A×	1×	1×	123×													X2			X4,5	1	34.762
2	1500	1519	radium	/				2A×																				2	34.750
3	1000	1012				3.	3.1×	3A×	3×	3×	124×														× .			3	34.650
4	800	807	radium	/																				X2			X4,5	4	34.569
5	800	〃				5.	2.9×	5A×																	X .			5	〃
6	600	606				6.	3.0×	6A×																X 2	+		X 4,5	6	34.444
7	500	503						7A×	7×	7×	125×													X 2			X4,5	7	34.366
8	500 ~~400~~	〃	radium	/																				X 2	+		X4,5	8	〃
9	400	404			GMBP			9A×																	X .			9	34.279
10	300	304						10A×	10×	10×	126×		× .											X 2			X4,5	10	34.161
11	minT250	253	radium	/																				NO 2			X4,5	11	34.089
12	MinT250	〃				12.	3.1×	12A×	12×	12×	127×		× .												X .			12	〃
13	200	202						13A×	13×	13×	128×		× .									X .		X 2	+		X4,5	13	33.992
14	180	181						14A×					× .											X 2			X 4,5	14	33.947
15	160	160						15A×					X .											NO 2			X4,5	15	33.909
16	140	142				16.	3.2×	16A×					× .									X .		X 2			X4,5	16	33.875
17	120	121						DA×					× .									X .		NO 2			X4,5	17	33.858
18	100	101						18A×	18×	18×	129×		× .											X 2			X4,5	18	33.800
19	80	81						19A×					× .											NO 2			X4,5	19	33.785
20	65 DCM	65				20.	5.3×	20A×	20×	20×	130×		× .									X .		X 2			X4,5	20	33.784
21	40	40						21A×					X .											X 2			X4,5	21	33.784
24	15	15				24.	5.5×	24A×	24×	24×	131×		X .									X .		X 2			X4,5	24	33.

- Minimum de Temp. à 150m !

bouteille n. 10 : md fermée (pas d'eau pour Damien)

Station: SWG_31_081_P
Bottom Depth: 4247 m

Lat: -49.00 °N
Long: 51.535 °E

Cast TM

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)	FP	L-E. H.	IO	HP + NL	DC	M. Saito	CJ	Comment
1	6	0.8	0.1	6.1	-7	800		PIS009	HM7	QMA/P1/P2	72.523	73.024	501	X	X						
2	6	0.8	8.5	20.6	401	400		ISPCa 3	HM2	QMA/P1/P2	29.512	29.927	415	X	X						
3	6	0.8	4.2	30.8	601	200		PIS012	HM4	QMA/P1/P2	80.133	80.383	250	X	X						
4	6	0.8	1.0	37.9	651	150		ISPCa 4	HM1	QMA/P1/P2	50.232	50.492	260	X	X						
5	6	0.8	1.0	44.9	701	100		PIS011	HM3	QMA/P1/P2	77.129	77.453	324	X	X						Filtre QMA déchiré au milieu
6	6	0.8	0.8	51.7	741	60		PIS021	FH1	SUPOR	4.3101	4.4858	175.7				X		X		
									FH2	QMA/P1/P2	5.6839	5.9159	232	X	X						
									EXH		9.8276	10.2338	406.2								
7	6	0.8	0.6	58.4	771	30		PIS020	FH1	SUPOR	4.8464	5.0077	161.3				X		X		
									FH2	QMA/P1/P2	6.293	6.5075	214.5	X	X	X					
									EXH		10.8792	11.2528	373.6								
Total (min)	42		16.4		800																
Total (heure)	0.7		0.3																		

Longeur totale filée

	Date	Onboard time	TU
Deployment start time	08/02/2021	07:30	03:30
Pump start date:	08/02/2021	09:20	05:20
Pump end date:	08/02/2021	10:20	06:20
Pump onboard:	08/02/2021	13:05	07:05

Total deployment (min)	58
Total recovery time (min)	58

Remarques:

Hauteur de la bordée: 8 m

carottier raté

CTD_C

Stn31 _ Cast 82

0.3 – 2.21·10^5
0.5 – 8.37·10^4
5 – 1.41·10^3

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

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

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	Quantification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes	Tommy/He	Swinnex #	N,P,Si	dFe	dTM	dAl	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
VOLUME					0.4	0.2	0.2	0.02	0.05	1	0.12	1.2	1		0.25	0.2	0.2	0.1	0.2	0.2	0.02	0.1	0.03	1	1							VOLUME
1		4233	Bottom - 30		•	•	•				•	•			•	•	••		•	•												1
2		4071	4000		•	•	•		•		•				•	•	••		•	•										8.2	15x	2
3		3558	3500		•		•				•				•	•	••		•	•										5.7	18x	3
4		3046	3000		•	•	•				•				•	•	••			•												4
5		2534	2500		•		•				•				•	•	••		•	•										9.6	44	5
6		2026	2000		•	•	•		•		•	•			•	•	••			•										8.7	25x	6
7		1771	1750		•		•				•				•	•	••		•	•										8.2	47x	7
8		1558	1500		•	•	•				•				•	•	••			•										7.0	1x	8
9		1263	1250		•		•				•				•	•	••			•										9.3	28x	9 Blank
10		1006	1000		•	•	•		•		•				•	•	••		•	•										9.3	16x	10
11		806	800		•		•				•				•	•	••			•										9.25	41x	11
12		605	600		•	•	•				•				•	•	••			•										5.5	22x	12
13		504	500		•		•		•		•				•	•	••		•	•										7.75	36x	13
14		403	400		•	•	•				•				•	•	••			•										6.8	37x	14
15		302	300		•		•				•	•			•	•	••			•										5.1	46x	15
16		252	250		•	•	•		•		•				•	•	••		•	•										5.9	4	16
17		200	200		•		•		•		•				•	•	••			•										8.25	29x	17
18		150	150		•	•	•		•		•	•			•	•	••			•										6.25	58x	18
19		120	120 ~~110~~		•		•		•		•				•	•	••	•		•										6.1	54x	19
20		80	DCM 80		•		•		•		•				•	•	••	•		•										5.0	42x	20
21		60	60		•	•	•		•		•				•	•	••	•	•	•										3.2	57x	21
22		50	50		•		•		•		•				•	•	••	•	•	•										2.5	48x	22
23			30		•	•	•		•		•	o			•	•	••	•		•										3.0	4x	23
24			30								•		7x500mL		•	•	•		•	•	•	•	•							3.0	3x	24 Blank
																														3.7	24	
number of bottles per parameter					23	8	23	0	12	0	4		0	0	24	24	47	6	10	23	0	0	0	0	0	0	0	0	0	0		

#3 → leaking bottom
#18 → Open on the top.
#7 → leaking bottom

Blank → #8 → 5x → 1L
#23 → 6x → 1L

SHALLOW

ST#31 n° 083

CTD_S_Basic_~~FULL~~

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 8/2/21 Secretary: SS
SAMPLING START (GMT): 11:00
SAMPLING END (GMT):

Sampling: DISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DONE REAL	Spun Line	Oxygen CH4	Flask#	Tp'	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>150	MRB	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	200	200	PVB	X																								1
2	200	200		+	CH4 X																							2
3	150	150	cath X	+												X.	X.	✓.										3
4	150	150	PVB	X																								4
5	100	100																										5
6	85 80	85	PIETER X		CH4 NO	NO.					NO.					X.	X.	X.	X.				X.					6
7	85 65 DCM	85		†	CH4 X	NO.										No.	No.	No.	NO.									7
8	85 65 DCM	85	cath X	+												X.	X.	X.	X.				X					8
9	60 65 DCM	60	PVB TOMMY		X.											X	X.	X	X.									9
10	40	40			CH4 X						NO.					X.	X.	X.	X.									10
11	15	13	cath X																									11
12	15	"	PVB X																									12
13	15	"			CH4 X	NO.										X.	X.	X.	X.				✓.					13
14	15	"		X																								14
15	15	"		X																								15
16	15	"	Ingrid	X																								16
17	15	"		X																								17
18	15	"		X																								18
19	15	"		X																								19
20	15	"	Hugo X																									20
21	15	"	X																									21
24	15	"	X																									24

Peter completed bottle 12 with 11 et 20

C_32_084

Particles
1.79E5
7.42E4
1.41E3

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	32
CAST	84
DEPTH	3368

DATE: 08/02/22
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	Acidification	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	REES	Zn isotopes	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
1		3701	Bottom - 30												31x																		1
2		3559	3500												14x																	9.5	2
3		3559	3500												11x																	9.6	3
4		3047	3000												18																	9.5	4
5		2553	2500												70																	8.9	5
6		2025	2000												8x																	7	6
7		1734	1750											51x																	10.4	7
8		1517	1500												44x																	6.7	8
9		1264	1250												2x																	10.6	9
10	1010	0 my	1000												50																	5.0	10
11		908	900												27																	10.3	11
12		808	800												33x																	9.5	12
13		603	600												34x																	9.0	13
14		504	500												1																	8.2	14
15		404	400									NO			9x																	10.5	15
16		303	300												35x																	10.1	16
17		252	250									NO			13x																	10-2	17
18		201	200												55x																	8.1	18
19		140	140 ~~130~~												32x																	10.6	19
20		111	110												56x																	9.2	20
21		80	DCM 80												40x																	8.8	21
22		60	60																													5.0	22
23		51	50												59x																		23
24		30	30											19																	3.5	3.8	24
number of bottles per parameter					24	9	24	0	0	0		2		0	0	24	24	24	6	10	24	1	1	1	0	0	0	0	0	0	0	0	

Slank -
blank -

btl # 22 → leaking from bottom
↳ no water inside
↳ shorten black rubber

blank - btl # 7 → 27x
- btl # 23 → 15a 1L

C_33_085

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	33
CAST	085
DEPTH	

DATE: 5 → 09.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered | Filtered | Ultrafiltered

(db)

Bottle	Spun line	justification	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes		Tommy/He	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (125mL)	Humics (60mL)	Fluorine 1	Fluorine 2	Cation	REES	Zn isotopes	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Bottle
1	2142	2139	Bottom - 30															Natalia														1
2	|	|	Bottom - 30															Natalia														2
3	|	|	Bottom - 30															Natalia														3
4	|	|	Bottom - 30															Natalia														4
5	1145	1151	Bottom - 30															Natalia														5
6	|	|	ox min 1150															Natalia														6
7	|	|	ox min 1150															Natalia														7
8	|	|	ox min 1150															Natalia														8
9	↓	↓	ox min 1150															Natalia														9
10	1142	1145	ox min 1150															Natalia														10
11		45	Chl-max 42																													11
12		|	Chl-max 42																													12
13		|	Chla-max 42																													13
14		|	Chl-max 42																													14
15		40	Chl-max 42																													15
16		31	30		Tommy																											16
17		30	30		Tommy																											17
18		|	30		Tommy																											18
19		|	30		Tommy																											19
20		|	30		Tommy																											20
21		|	30		Tommy																											21
22		|	30		Tommy																											22
23		|	30		Tommy																											23
24		22	30		Tommy																											24

→ entre 30 et 20 m -

8733_086

Station: SWG_33_086_P
Bottom Depth: 2080 m

Lat: -46.12 °N
Long: 51.89 °E

Cast TM

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)	FP	L-E. H.	IO	HP + NL	DC	M. Saito	CJ	Comment
1	6	0.8	0.1	6.1	-7	800		PIS009	HM7	QMA/P1/P2			0	X	X						
2	6	0.8	8.5	20.6	401	400		ISPCa 3	HM2	QMA/P1/P2			0	X	X						
3	6	0.8	4.2	30.8	601	200		PIS012	HM4	QMA/P1/P2			0	X	X						
4	6	0.8	1.7	38.5	681	120		ISPCa 4	HM1	QMA/P1/P2			0	X	X						
5	6	0.8	0.8	45.3	721	80		PIS011	HM3	QMA/P1/P2			0	X	X						
6	6	0.8	0.6	51.9	751	50		PIS021	FH1	QMA Hg			0		X						Max Chla
									FH2	QMA/P1/P2			0	X	X						
									EXH				0								
7	6	0.8	0.4	58.4	771	30		PIS020	FH1	QMA Hg			0		X						Surface
									FH2	QMA/P1/P2			0	X	X						
									EXH				0								
Total (min)	42		16.4		800		Longeur totale filée														
Total (heure)	0.7		0.3																		

	Date	Onboard time	TU
Deployment start time	09/02/2021	12:25	08:25
Pump start date:	09/02/2021	13:45	09:45
Pump end date:	09/02/2021	15:30	11:30
Pump onboard:	09/02/2021	16:25	12:25

Total deployment (min)	58
Total recovery time (min)	58

Remarques:

Hauteur de la bordée: 8 m

particle counter: 1.02 E4
5,33 E4
1.41 E3

C_33_087

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 9/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	Pressure (db)	Target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes	siderophor (7L)	Tommy/He	Swinnex #	NLP,Si	dFe	dTM	dAl	Uganda (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		2164	Bottom-30		✓	✓	✓			✓	✓	✓			53X	✓	✓	✓	✓	✓	✓				✓	✓	✓				4.0		1
2		2128	2100		✓	X	✓		✓		✓	✓			16X	✓	✓	✓	✓		✓				✓	✓	✓				5.6		2
4 ←	✓	1822	1800		✓		✓				✓				15X	✓	✓	✓	✓	✓	✓				✓		✓				7.2		3
3 ←	✓	1808	1600		✓	✓	✓		✓		✓	✓			20X	✓	✓	✓	✓		✓				✓	✓					6.6		4
5		1415	1400		✓	✓	✓			✓	✓				19X	✓	✓	✓	✓	✓	✓						✓				8.1X		5
6		1012	1000		✓	✓	✓		✓		✓	✓			25X	✓	✓	✓	✓		✓				✓	✓					5.0		6
7		755	750		✓	✓	✓			✓	✓				5X	✓	✓	✓	✓		✓						✓				5.2		7
8		505	500		✓	✓	✓		✓		✓				48X	✓	✓	✓	✓	✓	✓					✓	✓				7.7		8
9		302	300		✓	X	✓		✓		✓				11	✓	✓	✓	✓		✓										5.3		9
10		277	275		✓	✓	✓				✓				37X		✓	✓	✓	✓	✓										8.5		10
11		227	225		✓		✓		✓		✓	✓			3X	✓	✓	✓	✓		✓				✓	✓	✓				3.4		11
12		175	175		✓	✓	✓		✓	✓	✓		✓		41X	✓	✓	✓	✓	✓	✓						✓				4.5		12
13		121	120		✓		✓		✓	✓	✓		✓		47X	✓	✓	✓	✓	✓	✓						✓				0		13
14		101	100		✓	✓	✓		✓		✓	✓	✓		29X	✓	✓	✓	✓	✓	✓						✓				0.4		14
15		45	45		✓		✓		✓		✓	✓	✓		44	✓	✓	✓	✓	✓	✓						✓				Δ0.3		15
16		28	30		✓	✓	✓		✓	✓	✓	✓	✓		15X	✓	✓	✓	✓	✓	✓						✓				*0.6		16
17		25	30		Izzy																											17
18		20	30		Izzy																											18
19		18	30		Izzy																											19
20		18	30		Natalia					Natalia																						20
21		20	30		✓	✓	✓			Natalia																						21
22		17	30		Natalia					Natalia																						22
23		19	30		Natalia					Natalia																						23
24		18	30		Natalia					Natalia																						24

filter 4 / Bottle 4 for blank

~~57X~~ ~~12~~

⚠ Bouteille 4 claquée avant la 3

For ~~all~~ samples 4 → 1808m
all ~~sampled~~ 3 → 1822m

* all samples + 1L
Δ 3L
○ 2,75L

ST 33 Cast 88 ~~OISO~~

CTD_S_Basic_1500

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	33
CAST	88
DEPTH	

DATE: 9/2/21
SAMPLING START (GMT): 15:30
SAMPLING END (GMT): 16:50
Secretary:

db

ANTICIPATED | DONE | Sampling: OISO Team | Oxygen | Sampling: users

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	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	MRB	234Th	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	1500	1517				37X	1,7	01DX			132X													X 3		MRB		1	34.718
2	1500	1517	radium X																									2	
3	1000	1011				38X	2,8	03DX			133X													X 3		MRB	X 4,5	3	34.570
4	1000	1011	radium X																								4,5	4	
5	750	758	radium X																									5	34.425
6	750	758				39X	3,0	06DX																X 3		MRB	X 4,5	6	
7	600	607				40X	3,0	07DX																X 3			X 4,5	7	34.315
8	500	505						08DX	8X	8X	134X													X 3		MRB	X 4,5	8	34.252
9	500	505	radium X																									9	
10	400	404						10D.																3			4,5	10	34.179
11	300	303			X			11DX	11X	11X	135X		X									X.		X. 3		MRB	X 4,5	11	
12	~~min~~T250	252	radium X					12DX																				12	
13	200	202						13DX	13X	13X			X.									X.		X 3		MRB	X 4,5	13	
14	180	181						14DX			136X		X.											X 3		MRB	X 4,5	14	
15	160	160						15DX					X.											~~3~~		~~MRB~~	X 4,5	15	
16	140	141				41X	3,4	16DX			137X		X.									X.		X 5			X 4,5	16	
17	120	120						17DX					X.									X.		X 5			X 4,5	17	
18	100	101				42X	3,7	18DX	18X	18X			X.											X 5		MRB	X 4,5	18	
19	80	81			X			19DX			X138		X.											X 5			X 4,5	19	
20	~~60~~ 65 DCM	61						20D.	20.	20.			.									.		5		MRB	4,5	20	
21	40	41			X	43X	5,0	21DX			139X		X.									X.		X 5			X 4,5	21	
24	15	16			X								X.									X.		X 5		MRB	X 4,5	24	

B 20 et 10 fuient (DCM / 400 m) Methane fait sur 11 BaSi ont pris 19 à la place 20
ont pris la 17, la 16 et la 14

→ essayer de rattraper DCM et 400 m –

Station: SWG_33_089_P **Lat:** -46.12 °N

Bottom Depth: 2164 m **Long:** 51.889 °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	HP + NL	L-E. H.	CJ	DC	MS	
1	5	1	0.1	5.1	8	2114		PIS013	HM5	SUPOR	6.8072		7.5182	711	X2	X									Fond. 2 petites bestioles (enlevées)
2	5	1	0.3	10.5	12	2094		PIS021	FH1	SUPOR	4.8405		5.349	508.5						X			X		Fond
									FH2	QMA Hg	6.2176		7.1235	905.9							X				
									EXH		10.889		12.3008	1411.8											
3	5	1	2.4	17.9	156	1950		ISPCa3	HM2	SUPOR	30.551		31.32	769	X2	X									Max salinité
4	5	1	0.8	23.7	206	1900		PIS007	HM6	SUPOR	11.611		12.642	1031						X			X		Masse d'eau N°2. max salinité. Trace d'organisme écrasé
5	5	1	2.5	31.2	356	1750		ISPCa4	HM1	SUPOR	51.028		51.907	879	X2	X									
6	5	1	4.2	40.4	606	1500		ISPCa6	ML3	SUPOR	34.879		35.794	915	X2	X									Traces blanches
7	5	1	8.3	53.7	1106	1000		ISPCa7	ML2	SUPOR	52.524		53.3	776	X2	X									Min O2. Petite bestiole (enlevée)
8	5	1	0.3	59.0	1126	980		PIS020	FH1	SUPOR	5.1789		5.6665	487.6						X			X		Min O2
									FH2	QMA Hg	6.6511		7.5919	940.8							X				
									EXH		11.5654		12.9859	1420.5											
9	5	1	8.0	72.0	1606	500		PIS009	HM7	SUPOR	73.811		74.708	897	X2	X									
10	5	1	4.2	81.2	1856	250		PIS010	HM8	SUPOR	98.895		99.603	708	X2	X									
11	5	1	1.3	87.5	1931	175		PIS011	HM3	SUPOR	77.879		78.447	568	X2	X									
12	5	1	2.1	94.5	2056	50		ISPCa2	ML1	SUPOR	16.287		16.552	265						X			X		Surface. Beaucoup d'eau dans la tete+filtre très chargé: perdu un peu de matériel
13	5	1	0.3	99.9	2075	30		PIS012	HM4	SUPOR	80.797		80.87	73	X2	X									Surface. Tout semble okay sur le filtre (pas folement chargé) mais pourquoi ce faible volume de filtration?
Total (min)	65		34.9	99.9	2114	Longeur totale filée																			
Total (heure)	1.08333																								

	Date	Onboard time	TU
Deployment start time	09/02/2021	19:30	15:30
Pump start date:	09/02/2021	22:15	18:15
Pump end date:	10/02/2021	01:15	21:15
Pump onboard:	10/02/2021	03:00	23:00

Total deployment (min)	110
Total recovery time (min)	110

Remarques:

Hauteur de la bordée: 8 m

Temps additionel pour déployer le carottier 10 min

ST 33_S_090

CTD_S_Basic_FULL

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	33
CAST	90
DEPTH	

DATE: 10/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Kelani

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	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	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-iso>150	MRB	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	Bottom - 30	Radium	220~~4~~	Ba	X																					3	X		1
2	Bot-30	Nd	2204	X																									2
3	1950	Radium	1973	Ba	X																					3	X		3
4	1950	Nd	1974	X																									4
5	1750	Radium	1771	Ba	X																					3	X		5
6	~~1500~~ ~~1750~~	Nd	1519	X																									6
7	1000	Nd	1009	X																									7
8	500	Nd	505	X																									8
9	400		404	X																						3	X	Th FRED	9
10	200		202														·	·	·	·									10
11	175	Radium	175	Ba	X																								11
12	175	Nd	175	X																									12
13	150		151														X·	X·	X·	X·									13
14	~~135~~ ~~125~~	Radium	136	Ba	X																								14
15	~~135~~ ~~125~~	Nd	136	X													··												15
16	~~135~~ ~~120~~		136					Tommy										X·	X·	X·									16
17	DCM ~~60~~ 40		40														X·	X·	X·	X·						[redacted]	X	Th FRED	17
18	DCM ~~60~~ 40		40					Tommy															/						18
19	DCM ~~60~~ 40	Radium	40	Ba	X																								19
20	30	Nd	30	X													X·												20
21	~~15~~ ~~30~~	Nd	15	Radium Ba	X												···												21
24	15		15					Tommy										X·	X·	X·									24

Dawen pad ~2.5L

- Fuite ID, bouchon inf/sup

V3

St 34 Cast 091

V de 9/02 14:30

CTD_S_OISO_Full

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 10/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Hélène

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DONE REAL	Spun 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>150	234Th	Bottle	Salinity
VOL (L)					0,2	1		1,5	0,25	0,1	0,35	0,2	0,15	0,1	0,15	2,5	2	1	0,1	10	0,1	0,7	2	2	4	10	9,4	VOL (L)	
1	1200		1218	1208		1	3.2	01/02	1	1	140													2				1	34.682
2	1000	Cath	1009	999	X																							2	34.593
3	1000		1009	999	2/3	3,4		03C	3	3	141													2				3	
4	800		806	798		4	3.6		4															2				4	34.490
5	600		602	597		5	4.0		5															2				5	34.343
6	500		502	499		6	4.0		6	6	142													2				6	34.225
7	400		402	398		19	4.4																	2				7	34.173
8	300		297	295		8	4.8																	2				8	34.118
9	250		250	249		9	5.0		9A/B																			9	34.028
10	200		203	202		10	4.7		10A/B	10	143													6				10	33.935
11	150		152	150		11	4.9		11A/B															6				11	33.866
12	125		126	125		12	5.1	12C	12A/B																			12	33.841
13	120	Cath	119	115	X																							13	33.837
14	100		100	100		14	5.5	14C	14A/B	14	144													6				14	33.830
15	75		75	74		15	7.0		15															6				15	33.77
16	50		50	50		16	9.5		16	16	145													6				16	33,68
17	40		38	38		17	9.5		17																			17	33,68
18	30		28	28		18	9.6	18C																6				18	33,68
19	30	Cath	28	28	X																							19	
20	20		20	20		20	9.8	20C	20	20	146																	20	33,67
21	10		11	11		21	9.6	21C																6				21	33,67
24	10	Cath	11	11	X																							24	

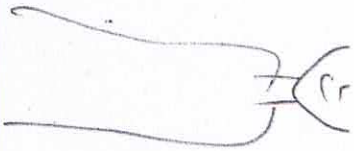
15 A 17 goût difficile à manoeuvrer

7 11

34_092

^{7}Be Station Sheet

Station	34
Lat	
Long	
Date (UTC)	2/10/21
Time (UTC)	8:30
Cast #	92
Bottom Depth (m)	2176
Mixed Layer (m)	~~58~~ 56
Target Depths	~~26, 45,~~ 30, 80, 95, ~~110~~, ~~140~~, 110, 130, 150



Tank	Depth (m)	Fill tanks	Flow through	Gallons
	6			
	150			
Start		9:31	9:58	119531
Stop		10:03	10:42	120088
	5			
	130			
Start		10:07	10:47	120088
Stop		10:39	11:24	120267
	~~10:42~~ 4			
	110			
Start		10:42	11:28	120267
Stop		11:11		120358
	3			
	95			
Start		11:14	12:23	120358
Stop		11:47	13:00	120493
	~~11:50~~ 2			
	80			
Start		11:50	13:03	120493
Stop		12:24	13:43	120621
	1			
	30			
Start		12:28	13:46	120621
Stop		13:02	14:24	120758

C_35_093

0.5 2.54.10^4

5 0

CTD_C

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 10.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):

NB

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	Bottle fired	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes	siderophores (21)	Tommy/He	Swinnex #	N,P,Si	dFe	dTM	dAl	Ligands (125mL)	Humics (60mL)	Bottle
1		1220	Bottom-30		•	•	•				•	•				•	•	•	•	•	•	1
2		1176	Bottom-30																			2
3		1101	M00 1250		•	•	•				•					•	•	•	•		•	3
4		1012	M00 1250																			4
5		1011	1000		•	•	•				•	•				•	•	•	•		•	5
6		1010	1000																			6
7		910	900		•		•				•					•	•	•	•		•	7
8		910	900																			8
9		756	750		•	•	•				•					•	•	•	•	•	•	9
10		756	750																			10
11		505	500		•	•	•				•					•	•	•	•	•	•	11
12		505	500																			12
13		304	300		•		•				•					•	•	•	•		•	13
14		304	300																			14
15		252	250		•	•	•				•	•				•	•	•	•	•	•	15
16		252	250																			16
17		200	200		•		•				•					•	•	•	•	•	•	17
18		200	200																			18
19		151	150		•	•	•				•					•	•	•	•	•	•	19
20		121	120		•		•				•					•	•	•	•		•	20
21		100	100		•	•	•				•	•				•	•	•	•		•	21
22		80	80		•		•				•					•	•	•	•		•	22
23		51,5	60		•		•				•					•	•	•	•	•	•	23
24		29,4	30		•	•	•				•	•				•	•	•	•	•	•	24

7×500mL

Fluorine 1	Fluorine 2	Cation	REES	Zn isotopes (1* depths, #1 = shallow, dp 500m)	dTM	Bucket #	unfiltered filtered	collected for filtered	Volume bucket	Volume filtered (L)	Bottle
			•		•	8			6.8	17	1
											2
					•	7			8.5	57x	3
											4
			•		•	3			8	50	5
											6
					•	5			3.05	51x	7
											8
					•	15			3.9	22x	9
											10
			°		•	6			7.5	7x	11
			NO								12
					•	16			8.2	27x	13
											14
			•		•	9			7.5	36x	15
											16
					•	2			5.6	32x	17
											18
					•	11			3	29	19
			•			12			3.5	12x	20
			•			14			4	39x	21
						4			2.5	46x	22
					•	1			2.25	9	23
•	•	•	•		•	10			2.0	58	24

Blanks b+l # 7 → 64 → 1.0L
b+l # 23 → 21x → 1.2L

#19 → gg leaking top

S35-094 → Quart

Version 10/02 à 14 h.

Nuit du 10 au 11/02

CTD_S_Shelf_st35_Cast~~093~~

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE:
SAMPLING START (GMT): 10:15
SAMPLING END (GMT): 11:15
Secretary: Cath

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	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	Chlo <200	FRRF	OMIC (3 dept	CYTO	Nitrif	calcif	Si>1500	Ba at 2000	Nd-Iso>150	MRB	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	1	0,1	10	0,1	0,7	2	2	4	10	9,4	VOL (L)
1	Bot_30	Cath	1185																							X		1
2	Bot-30		1185			25	2.8	02A			147													6			MRB	2
3	~~1100 1250~~		1111			26	3.5	03A																6			MRB	3
4	1000	cath	1009																							X		4
5	1000		1009			27	3.8	05A			148													6			MRB	5
6	800		807			28	3.9	06A			148													6			MRB	6
7	600		602					07A																6				7
8	500	cath	503																							X		8
9	500		503					09A																6			MRB	9
10	400		405		X			10A																6				10
11	300		302			29	4,3	11A			150		X											6			MRB	11
12	250	cath	252																							X		12
13	200		200					13A					X											6				13
14	150		150			30	4.8	14A			151		X			+	+	+						6			MRB	14
15	120	Cath	121																							X		15
16	120		121					16A					X			X	X	X						6			MRB	16
17	75		75		X			17A					X			X	X	X						6			MRB	17
18	50		50		X	31	5.8	18A			152		X			/	/	/						6				18
19	30		30		X	32	5,7	19A			153		X			X	X	>						6			MRB	19
20	30	Cath	30																							X		20
21	15		15		X	33	5.7	21A			154		X			X	X	X						6				21
24	10	Cath	10																							X		24

34,583
34,583
34,55
34,55
34,55
34,45
34,55
34,25
34,25
34,18
34,11
34,09
34,08
34,93
33,86
33,86
33,82
33,82
33,82
33,82
33,82

ST 36 -095 Check

CTD_S_Ra_Ac_Nd_Full; ST 36

Cruise SWINGS 2021

Ship: N/O Marion Dufresne

STATION	36
CAST	95
DEPTH	

DATE: 11/2/21 Secretary: SS+Helene

SAMPLING START (GMT): 15:53

SAMPLING END (GMT):

	ANTICIPATED		DONE		Sampling: OISO Team																			Sampling: users						
					Oxygen																						MRB				
Bottle	TARGET	Optimized	REAL db	Spun Line	Flask#	Tp°	DIC-Alk	13δC	18δO	Salinity#	N,P,Si	NH4<300	NO3 isot	DON isot	POC/PON	HPLC	Chlo <2	FRRF	OMIC (3 de	CYTC	Nitrif	Calc	Si>1500	Ac	Nd-iso et P	RADIUM	MRB	Bottle	
VOL (L)					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	2,5	4	10	10,9	12,8	VOL (L)	
1	Bottom-30		4334																					X				1	34.675
2	Bottom -30		4334																							X		2	34.675
3	4000		4069																					X				3	34.681
4	4000		4069																							X		4	
5	3750		3815																					X				5	34.684
6	3750		3815																							X		6	
7	3500		3557																					X				7	34.692
8	3500		3557																							X		8	
9	3250		3302																					X				9	34.709
10	3250		3302																							X		10	
11	3000		3047																					X				11	34.725
12	3000		3047																							X		12	
13	2500		2538																					X				13	34.754
14	2500		2538																							X		14	
15	2000		2027																					X				15	34.764
16	2000		2027																							X		16	
17	1500		1517																						X			17	34.713
18	1500		1517																							X		18	
19	1000		1009																						X			19	34.532
20	1000		1009																							X		20	
21	750		759																						X			21	34.390
24	750		759																							X		24	

Station: SWG_36_096_P **Lat:** °N

Bottom Depth: 4272 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			Cast TM						Comment
																CJ	MRB	PvB	FP	HP + NL	L-E. H.	CJ	DC	MS	
1	5	0.8	0.2	5.2	-8	4222		PIS013	HM5	SUPOR CJ	7.5193		8.1787	659.4	X2	X									Fond
2	5	0.8	0.4	10.8	12	4202		PIS007	HM6	SUPOR HP	12.645		13.455	810						X		X	X		Fond. 2 filtres collés l'un sur l'autre
3	5	0.8	9.4	25.0	464	3750		ISPCa3 + TLOG	HM2	SUPOR CJ	31.322		32.045	723	X2	X									
4	5	0.8	5.2	35.2	714	3500		ISPCa4	HM1	SUPOR CJ	51.908		52.758	850	X2	X									
5	5	0.8	10.4	50.6	1214	3000		ISPCa6	ML3	SUPOR CJ	35.796		36.666	870	X2	X									
6	5	0.8	10.4	66.0	1714	2500		ISPCa7	ML2	SUPOR CJ	53.302		54.099	797	X2	X									Taches marrons-verts localisées
7	5	0.8	10.4	81.5	2214	2000		PIS009	HM7	SUPOR CJ	74.71		75.659	949	X2	X									Max salinity. Bout de plastique sur le filtre (enlevé. Venant des tubes de la tete de pompe?)
8	5	0.8	0.4	86.9	2234	1980		PIS012	HM4	SUPOR HP	81.167		82.086	919						X		X	X		Max salinity. ISP qui n'a pas pompé à la dernière cast
9	5	0.8	20.2	112.1	3204	1010		PIS010 + TLOG	HM8	SUPOR CJ	99.605		100.583	978	X2	X									Min O2. Taches blanches
10	5	0.8	0.4	117.5	3224	990		ISPCa2	ML1	SUPOR HP	16.554		17.212	658						X		X	X		Min O2. Filtre okay alors que la pompe avait le message "sudden pressure release"
11	5	0.8	10.2	132.7	3714	500		PIS011	HM3	SUPOR CJ	78.45		79.19	740	X2	X									
12	5	0.8	9.4	147.1	4164	50		PIS020	FH1	SUPOR HP	5.667		5.7915	124.5						X		X	X	X	Max Chl-a
									FH2	SUPOR CJ	7.5944		7.7191	124.7								X			
									EXH		12.9859		13.2327	246.8											
13	5	0.8	0.4	152.5	4184	30		PIS021	FH1	SUPOR HP	5.3494		5.4967	147.3						X		X	X	X	Surface
									FH2	SUPOR CJ	7.1249		7.2628	137.9								X			
									EXH		12.3018		12.5767	274.9											
Total (min)	65		87.5	152.5	4222	Longueur totale filée																			
Total (heure)	1.08333																								

	Date	Onboard time	TU
Deployment start time	11/02/2021	19:45	15:45
Pump start date:	11/02/2021	23:00	19:00
Pump end date:	11/02/2021	02:00	22:00
Pump onboard:	11/02/2021	04:20	0:20

Total deployment (min)	163
Total recovery time (min)	163

Remarques:

Hauteur de la bordée: 8 m

Temps additionel pour déployer le carottier 10 min

CTD_S_Basic_FULL

SR 36 Cast 97 — 11/02 23h00 — Version

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	36
CAST	97
DEPTH	

DATE: 12/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Kelvin

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DONE REAL	Spun Line	CH4	Flask#	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	Ba at 2000	Nd-iso>150	MRB	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	Fond-30		4331			1/2..	1,0	1/2	1	1	155													6				1
2	Fond-30		4331																							Nd		2
3	3700		3762					3E																		Nd		3
4	3500	Ingrid	3557	X																OMIC								4
5	3500		3557			5 .	1,2	5E																6				5
6	3000		3044			6 .	1,7	6E	6	6	157													6				6
7	2500		2535					7E																6				7
8	2000		2025			8 .	2,4	8E	8	8	158													6				8
9	1750	Ingrid	1773	X																OMIC								9
10	1750	cath	1773					10E																		Nd		10
11	1500		1517			11 .	2,8	11E																6				11
12	1000		1009			12 .	3,1	12E	12	12	159													6				12
13	800		907			13 .	3,1	13E																6				13
14	600		607			14 .	3,3	14E	14	14	160													6				14
15	400		404		CH4			15E																6				15
16	300		302					16E	16	16	161													6				16
17	200		202					17E																6				17
18	150		150			18 .	4,2	18E	18		162													6				18
19	MLD_80		80		CH4			19E																6				19
20	65 DCM		65		CH4			20E	20	20	163													6				20
21	40		40		CH4	21 .	8,7	21E																6				21
24	15		15		CH4			24E	24	24	164													6				24

34.675
34.684
34.691
34.722
34.753
34.761
34.749
34.710
34.536
34.417
34.266
34.177
34.103
33.934
33.870
33.770
33.733
33.683
33.663

DCM : 55 m

MLD : 50 m

0.3 4.8 E4
0.5 1.80 E4
5 0

CTD_C

C_36_098

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 12-02-2021
SAMPLING START (GMT):
SAMPLING END (GMT):

Unfiltered | Filtered | Ultrafiltered

Bottle	Spun line	justification (dL)	target	Sample ID	THg	DGM	MeHg	Salinity	DOC	Fe oxidation	Nitrate isot	Pb isotopes		Tommy/He	Swinnex #	N,P,Si	dFe	dTM	dAl	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	4267	4342	Bottom - 30		✓	✓	✓			✓	✓	✓				✓	✓	✓		✓	✓				✓	✓	✓				5.9	46X	1
2	4202	4278	4200		✓	✓	✓				✓					✓	✓	✓			✓					✓	✓				5.1	20X	2
3	4094	4172	4100		✓		✓				✓					✓	✓	✓		✓	✓						✓				9.2	36X	3
4	3701	3765	3700		✓	✓	✓		✓	✓	✓	✓				✓	✓	✓			✓				✓						8.2	46X	4
5	2998	3046	3000		✓		✓				✓					✓	✓	✓		✓	✓										?	7X	5
6	2495	2536	2500		✓	✓	✓				✓					✓	✓	✓			✓					✓	✓				8.75	11	6
7	2198	2231	2200		✓		✓		✓	NO	✓					✓	✓	✓		✓	✓										6.2	32X	7
8	1638	1667	1650 1650		✓	✓	✓			✓	✓	✓				✓	✓	✓			✓				✓	✓	✓				6.7	12X	8
9	1392	1417	1400		✓		✓		✓		✓	✓				✓	✓	✓		✓	✓				✓						4.5	43X	9
10	1240	1264	1250		✓	✓	✓				✓	✓				·	·	·			·				✓	✓					4	35X	10
11	985	1010	1000		✓		✓		✓	✓	✓	✓				✓	✓	✓			✓				✓		✓				6.4	27X	11
12	790	809	800		✓	✓	✓				✓	✓				✓	✓	✓		✓	✓				✓	✓					6	21X	12
13	582	607	600		✓		✓				✓					✓	✓	✓			✓										8.4	39X	13
14	489	508	500		✓	✓	✓		✓		✓	✓				✓	✓	✓			✓				✓		✓				8	51X	14
15	386	404	400		✓		✓			✓	✓					✓	✓	✓		✓	✓					✓					5	41X	15
16	287	303	300		✓	✓	✓				✓					✓	✓	✓			✓				✓						8.2	45X	16 *
17	237	253	250		✓		✓				✓	NO				✓	✓	✓	✓		✓										5.8	~~39~~	17
18	167	182	180 200		✓	✓	✓		·	✓	✓	✓				✓	✓	✓	✓		✓					✓	✓				3.2	50X	18
19	136	151	150		✓		✓		·		✓					✓	✓	✓	✓		✓										6.6	4	19
20	95	109	110		✓		✓		·		✓					✓	✓	✓	✓		✓										~~7.4~~	57X	20
21		81	80		✓	✓	✓		·		✓					✓	✓	✓	✓	✓	✓					✓					2.7	~~24~~	21
22		40	CM 40		✓		✓		✓		✓					✓	✓	✓	✓	✓	✓						✓				1.8	29	22
23		28	30	Tommy 7 x 500mL			✓		✓					~~7500~~																			23
24		27	30		✓	✓	✓		✓		✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				6.1	5X	24

8L

12X

26X

Chl max 40 m

Oxy

22X blank (deep) Gotflo #8 ⇒ 1L
18X (surf) 19 ⇒ 1L

24X clogged (2.75L) ⇒ 49X
5X " (2L) ⇒ 34 (2L) ⇒ 38X (1.1L)

? fell down

* gas leak seriously for Gotflo #16

CTD_S_250 St 36 cast 99

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	36
CAST	99
DEPTH	

DATE: 12/2/21 Secretary:
SAMPLING START (GMT):
SAMPLING END (GMT):

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DONE REAL	Spun Line	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 m	Nd-iso>15(	RADIUM	ThFred	Bottle
VOL (L)					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	12,8	VOL (L)
1	290 250	Radium	288										PVB	X														1
2	290 250	Radium	288										PVB	X														10
3	290 250	Radium	"										PVB	X														2
4	290 250	Radium	"										PVB	X														3
5	290 250	Radium	"										PVB	X														4
6	290 250	Radium	"										PVB	X														5
7	290 250	Radium	"										PVB	X														6
8	290 250	Radium	"										PVB	X														7
9	290 250	Radium	"										PVB	X														8
10	290 250	Radium	"										PVB	?														9
11	290 250	Radium	"										PVB	NO														11
12	27 30	Radium	27										PVB	X														12
13	" 30	Radium	"										PVB	X														13
14	" 30	Radium	"										PVB	X														14
15	30	Radium	"										PVB	X														15
16	30	Radium	"										PVB	X														16
17	30	Radium	"										PVB	X														17
18	30	Radium	"										PVB	X														18
19	30	Radium	"										PVB	X														19
20	30	Radium	"										PVB	X														20
21	30	Radium	"										PVB	X														21
24	30	Radium	"										PVB	X														24

bouteilles ouvertes : # 10 et 7 (sur la 7 pas sûr du numéro)

la 10 n'a pas été prelevée

D_S_1300m St 36 cast 100

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

DATE: 12.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Hélène

Sampling: OISO Team | Sampling: users

Bottle	ANTICIPATED TARGET	Optimized	DONE dB Real	Spun Line	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 m	Nd-iso>15(	RADIUM	ThFred	Bottle
VOL (L)					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	12,8	VOL (L)
1	1300	1306	1318																									1
2	1000	1000	997									cath	X															10
3	500	500	504									Ingrid	X						OMIC									2
4	500 Radium		504									cath	X															3
5	300	300	304										PVB	X														4
6	300	300	304									cath	X								X							5
7	250 Radium	251										cath	X															6
8	200 Radium	201											PVB	X														7
9	160	160	160									pb et tommy	X								X							8
10	140 Radium	140										Ingrid	X						OMIC									9
11	140 Radium	140											PVB	X														11
12	120	120	120									pvb et tommy	X								X							12
13	DCM-60 Radium	61											Tommy	X														13
14	DCM-60	60	61										PVB	X														14
15	30 Radium	30											Tommy	X														15
16	30 Nd	30											PVB	X														16
17	15 Nd	15											cath	/														17
18	15	15											cath															18
19	15	15											MRB	/														19
20	15	15											Tommy	X														20
21	15 Radium	15										Ingrid	X						OMIC									21
24	~~15~~												PVB	/														24

repro CJ

⚠ 20 juil - Seulement 4L :

bouchon 17 super dur.