

CTD_si-Th_CH4_Pa/Th

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

Secretary:

47. Cont 128 ! Je en fonce
m m en note de ap 1500 m
CC ex Cont 9:30 début
10:30 fin
OK!

ANTICIPATED				DONE																
Bottle/TARGET	Optimized	REAL	Spun Line	CHH4	NH4-300	NO3 Isot	DON Isot	POC/PON	HPLC	Chlo <200	FRFR	OMIC (3 deg CTO)	Nutri	calcif	234TH	Slp-1500	MIRB	Nd-iso-150	Bottle	
VOL (L)																			VOL (L)	
1	1500	1520		0.2	0.15	0.1	0.15					10	0.1	0.7	2	8.3	2	4	10	1
2	1000	1008																		2
3	800	807																		3
4	600	605																		4
5	500	502																		5
6	400	HUGOX4	404	X																6
7	350	352																		7
8	300	301			X															8
9	250	253			X															9
10	200	200			X			X 1.7	2.3	X										10
11	180	180			X															11
12	160	159			X															12
13	140	140			X			X 1.7	2.3	X										13
14	120	126			X															14
15	100	100			X			X 1.7	2.3	X										15
16	80	HUGOX4	79	X	X															16
17	60		60					X 1.7	2.3	X										17
18	60	HUGOX4	60	X	X															18
19	40		40		X															19
20	20	HUGOX4	18	X	X			X 1.7	2.3	X										20
21	10		10																	21
24	10	HUGOX4	16	X	X			X 1.7	2.3	X										24

3L neB'eau

Danien
colère la 24ème
10m

618

Station: SWG_47_129_P
Bottom Depth: 2139 m

Lat: °S
Long: °E

Cast TM

Longeur																						Comment			
ISP order	clump 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 (m ³)	Final Volume (m ³)	V filtered (L)	FP	L-E, H	IO	HP + NL	DC	M. Satio	CJ					
1	5	0.8	0.1	5.1	-7	2090	bottom -50	PI5010	HMB	SUPOR	101.825	102.495	670				X	X			triplicat sample pour HP & NL - blanc (triplicat aussi pour HP & NL) - 1 litre blanc				
2	5	0.8	6.0	16.2	283	1800		PI5007 + TLOG	HMB	SUPOR	14.614	15.702	1088				X	X			triplicat pour HP & NL				
3	5	0.8	11.5	32.6	833	1250		ISPCa 7	ML2	SUPOR	55.594	56.435	841				X	X			triplicat pour HP & NL: Organisme fixé, pas skroge				
4	5	0.8	9.0	46.6	1263	820	ISP-Ca 2 + deployment + 10m/20m	ISP-Ca 2	ML 1	SUPOR	17.441	17.474	33				X	X			a pompe 35 l				
5	5	0.8	0.4	52.0	1283	800		PI5009	HMT	QMAAP-1/P2	77.878	79.121	1243	X	X						Men O2				
6	5	0.8	4.2	61.2	1483	600		ISPCa 6	ML 3	SUPOR	38.529	39.366	837				X	X							
7	5	0.8	4.2	70.4	1683	400		ISPCa 3	HMT	QMAAP-1/P2	33.745	34.732	987	X	X						whiter water				
8	5	0.8	3.8	79.1	1863	220		PI5013	HMT	SUPOR	9.9324	10.181	248.6				X	X	X		plein d'eau				
9	5	0.8	0.4	84.5	1883	200		PI5012 + TLOG	HMT	QMAAP-1/P2	83.589	84.642	1053	X	X										
10	5	0.8	1.0	90.6	1933	150		ISPCa 4	HMT	QMAAP-1/P2	54.841	55.58	739	X	X										
11	5	0.8	0.6	96.2	1963	120		PI5011	HMT	QMAAP-1/P2	80.278	80.612	334	X	X						Men O2 + blanc				
12	5	0.8	0.8	102.0	2003	80		PI5021	FH1	SUPOR	6.1233	6.306	182.7				X	X	X						
									FH2	QMAAP-1/P2	7.8325	8.0945	262	X	X										
									EXH		13.8865	14.2199	333.4												
13	5	0.8	1.0	108.1	2053	30		PI5020	FH1	SUPOR	6.6023	6.7201	117.8				X	X	X		Particules hydrogènes sur les 2 parties				
									FH2	QMAAP-1/P2	8.9225	9.1032	180.7	X	X										
									EXH		15.2308	15.5262	295.4												
Total (min)	85		43.1		2090	Longeur totale file																			
Total (heure)	1.08333		0.7			Date																Onboard time	TU		
						Deployment start time																19/02/2021	01:50	20:50	

Remarques:

Hauteur de la bordée:

8 m

caractère

10 min

P-47-129

CTD_C

Cite: SWIMS 2021
Ship: N/O Marine Defense

STATION: 4-1
CST: 130
DEPTH: 130

DATE: 19/10/21
SAMPLING START (GMT):
SAMPLING END (GMT):

db

Unfiltered

Filtered

Unfiltered

C47-130

0.5 1.06.10
0.5 2.51.10
5 1.41.10

Bottle	Sequence	Justification	Target	Sample ID	Trig	QC#	Mdrg	Salinity	DOC	Fe oxidation	Water notch	Indicators	Turnup/Volume 2 Sample filter after 4L for duplicates	W.P.S.	STN	DATE	Upcore [125m]	Bottom [60m]	Fluorine 1	Fluorine 2	Carbon	RES	20 independent dTM	Bucket 2	Unfiltered Filtered	Unfiltered Filtered	Volume Filtered [L]	Bottle	
X	2154	Bottom -30																											X
2	2156	Bottom -30																											54x (4L)
3	2028	2000																											24x (4L)
4	2027	2000																											58x (4L)
5	1825	1800																											Blank 32x (2L)
6	1825	1800																											
7	1518	1500																											
8	1520	1500																											
9	1260	1250																											
10	1760	1250																											
11	1012	1000																											
12	809	800																											
13	608	600																											
14	506	500																											
15	404	400																											
16	354	350																											
17	304	300																											
18	253	250																											
19	204	200																											
20	151	150																											
21	131	130																											
22	76	75																											
23	31	30																											
24	29	30																											

min T: 200 m
min O: 600 m

Blank

7: 55x (1.0L)
22: 34x (1.2L)

min T in @ 200 m

Collected samples for
RES & Pb isotopes + Zn

22 -> 54x (1.2L) -> 41x (0.8L) -> 21x (0.7L) -> 46x (1.2L)
81 -> 8x (0.4L) -> 27x (13.6L) -> 16x (samples)
23 -> 13x (samples + 1.45L)

BT #19 * Huge gas vent top

2

Blank

200.25?

+ samples

Blank 32x (2L)

58x (4L)

24x (4L)

54x (4L)

Blank

CTD_S_47_cast xx_Th_Si_Ra_Ac

47- Cast 131

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	
CAST	
DEPTH	

DATE: 19.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):

Secretary: Cath of Helene

che

Ra

ANTICIPATED		DONE		Sampling: OSO Team										Sampling: users										Bottle			
Bottle/TARGET	Optimized	REAL	Spin Line	CH4	Flask	Tip	DIC-AK	13C	18O	Salinity	N.P.SI	NHK-300	NO3 test	DON test	POC/PON	HPIC	Chla-200	Chla vol	FRF	OMC (3 deg CTD)	NH4 test	234m	SP-1500	MIB	Nd-40015	VOL (L)	
VOL (L)	930	2161	2130	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
1 Bot-30-12 radium		2161	2130																								34.739
2 Bot-30-12 Nd		2161	2130																								34.735
3 Bot-30-12		2161	2130																								34.739
4 2000 radium		2025	1995																								34.742
5 1800		1821	1796																								34.748
6 1500 radium		1519	1494																								34.750
7 1000 radium		1010	995																								34.693
8 1000		1010	995																								34.693
9 800		1010	995																								34.693
10 min02 600 Nd		606	594																								34.552
11 min02 600 radium		606	594																								34.552
12 400 radium		405	395																								34.607
13 300 radium		302	291																								34.284
14 200 Nd		196	188																								33.998
15 minT 200 radium		196	188																								33.918
16 120		121	113																								33.871
17 100 radium		104	97																								33.870
18 100 PP		104	97																								33.870
19 50 PP		50	44																								33.870
20 20 radium		20	20																								33.870
21 20 Nd		20	20																								33.870
24 20 PP		20	20																								33.870

INFO: 12M DU FOND, CTD à 2130M (FOND 2142M)

#57L 14845: FERNETTES A 195M

47-132

Station: SWG_47_132_P
Bottom Depth: 2143 m

Lat: °S
Long: °E

Cast ISO: CI, MRB, PVB

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.	Comment
1	5	0.8	0.2	5.2	-8	2093		ISPCa 3	HM2	SUPOR	34.734	35.471	737	x2	Bottom-30
2	5	0.8	1.9	12.1	85	2000		ISPCa 4	HM1	SUPOR	55.583	56.245	662	x2	+ blanc
3	5	0.8	5.2	22.3	335	1750		PIS 010	HM8	SUPOR	102.497	103.431	934	x2	grosses tables vertes et petites taches roses
4	5	0.8	5.2	32.5	585	1500		ISPCa 6 + TLOG	ML3	SUPOR	39.368	40.307	939	x2	
5	5	0.8	10.4	47.9	1085	1000		ISPCa 7	ML2	SUPOR	56.435	57.172	737	x2	
6	5	0.8	4.2	57.1	1285	800		PIS020	FH1	SUPOR	6.7209	7.255	534.1		SUPOR HP/NL/DC (ISPCa 2 n'a pas fonctionné au cast 129). Tropical pour Damien
									FH2	SUPOR	9.105	9.6485	543.5		SUPOR HP/NL/DC (ISPCa 2 n'a pas fonctionné au cast 129).
									EXH		15.5284	16.5999	1071.5		
7	5	0.8	4.2	66.3	1485	600		PIS 007	HM6	SUPOR	15.403	16.367	964	x2	minO2
8	5	0.8	4.2	75.4	1685	400		PIS 009	HM7	SUPOR	79.124	79.958	834	x2	
9	5	0.8	4.2	84.6	1885	200		PIS011 + TLOG	HM3	SUPOR	80.613	81.087	474	x2	minT WW
10	5	0.8	2.1	91.7	1985	100		PIS 012	HM4	SUPOR	84.544	84.626	82	x2	Peu pompé, mais filtre peu chargé
11	5	0.8	1.7	98.4	2065	20		PIS 013	HM5	SUPOR	10.182	10.2323	50.3	x2	Peu pompé, mais filtre peu chargé. + Blanc
Total (min)	55		43.4		2085	Longueur totale file									
Total (heure)	0.91667					TU									

Remarques:
Hauteur de la bordée: 8 m

Carottier: 10 MIN

Date		Onboard time		TU	
Deployment start time	19/02/2021	12:10		07:10	
Pump start date:	19/02/2021	14:00		09:00	
Pump end date:	19/02/2021	17:00		12:00	
Pump onboard:	19/02/2021	18:15		13:15	

Total deployment (min)	108
Total recovery time (min)	108

CTD_S_Basic_FULL_st48_133

Helene

updated 10/2/2011

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	48
CAST	135
DEPTH	1642

DATE: 20/12/11
SAMPLING START (GMT):
SAMPLING END (GMT):

Sampling: OISO Team

Sampling: users

OLD, HPLC, NH4

Bottle	TARG	Optimized	REAL	Spun Line	CH4		Oxygen		138C	138O	Salinity	calcif	Sp-1500	Ac	Nd-iso-15/Ra	Bottle
					CH4	Flash#	Trp	DIC-AIK								
1	Bot-30		1686			1					85					1
2	Bot-30		1687													2
3	Bot-30		1688			3X	1.9	X3A.								3
4	1600 1200		1621					X4A.								4
5	1500 1600		1519			5X	2.0	X5A.								5
6	1500 1600		1519													6
7	1300		1314													7
8	1000		1011			8X	2.6	X8A.								8
9	1000		1011													9
10	675 700		682			10X	2.6	X20B.								10
11	675 700		681													11
12	500		505			12X	2.3	X12A.								12
13	320 300		323					X13A.								13
14	190 200		193					X14A.								14
15	190 200		192													15
16	190 200		193													16
17	160		163					X17A.								17
18	120		120					X18A.								18
19	85 100		81					X19A.								19
20	60		60			20X	2.8	X20A.								20
21	20		20			21X	2.1	X21A.								21
24	20		20													24

34.748

34.749

34.748

34.737

34.693

34.580

34.469

34.281

33.990

33.959

33.865

33.865

33.865

no 20
mal ferme
Echantillon
tout de suite
collectés

Salinity
retirer et mettre
dans le pot
à l'analyse

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

STATION	48
CAST	134
DEPTH	100

DATE: 20/2/21
SAMPLING START (GMT):
SAMPLING END (GMT):

C-48-134

614E4
297E4

99

Unfired

Filtered

Unbranded end

Bottle	Span line	Position	Target	Sample ID	Title	NCM	Modif	Security	DOC	Pre oxidation	Merite notes	Indicators	Normy/bs-criteria n	RTS	Age	DTM	d40	Isagras (25mm)	Humus (d40)	Humus 1	Humus 2	Carbon	RTS	2h leaching DTM	Bacter 8	Indirect for Microbiol	Volume initial (L)	Bottle
1		1696	Bottom 30					97							✓	✓	✓		✓	✓	✓	✓					9.54x	1
2		1698	Bottom 30					98							✓	✓	✓		✓	✓	✓	✓		✓	✓		3.83x	2
3		1684	1660					99							✓	✓	✓		✓	✓	✓	✓		✓	✓		8.94x	3
4	1506	1520	1500	1500				100							✓	✓	✓		✓	✓	✓	✓		✓	✓		8.42x	4
5		1416	1400	1500				101							✓	✓	✓		✓	✓	✓	✓		✓	✓		8.64x	5
6		1316	1300	1400				102							✓	✓	✓		✓	✓	✓	✓		✓	✓		10.50	6
7		1215	1200	1300				103							✓	✓	✓		✓	✓	✓	✓		✓	✓		8.03x	7
8		1113	1100	1200				104							✓	✓	✓		✓	✓	✓	✓		✓	✓		8.14x	8
9		1011	1000	1100				105							✓	✓	✓		✓	✓	✓	✓		✓	✓		5.92x	9
10		1009	1000	1000				106							✓	✓	✓		✓	✓	✓	✓		✓	✓		8.37x	10
11		910	900	1000				107							✓	✓	✓		✓	✓	✓	✓		✓	✓		9.32x	11
12		808	800	900				108							✓	✓	✓		✓	✓	✓	✓		✓	✓		6.8	12
13		707	700	800				109							✓	✓	✓		✓	✓	✓	✓		✓	✓		9.91x	13
14		607	600	700				110							✓	✓	✓		✓	✓	✓	✓		✓	✓		4.55x	14
15		505	500	600				111							✓	✓	✓		✓	✓	✓	✓		✓	✓		3.93x	15
16		405	400	500				112							✓	✓	✓		✓	✓	✓	✓		✓	✓		5.34x	16
17		304	300	400				113							✓	✓	✓		✓	✓	✓	✓		✓	✓		6.34x	17
18		252	250	300				114							✓	✓	✓		✓	✓	✓	✓		✓	✓		2.32x	18
19		192	190	250				115							✓	✓	✓		✓	✓	✓	✓		✓	✓		4.22x	19
20		141	140	190				116							✓	✓	✓		✓	✓	✓	✓		✓	✓		3.52x	20
21		121	120	140				117							✓	✓	✓		✓	✓	✓	✓		✓	✓		2.07x	21
22		81	80	120				118							✓	✓	✓		✓	✓	✓	✓		✓	✓		2.02x	22
23		29	30	80				119							✓	✓	✓		✓	✓	✓	✓		✓	✓		0.25x	23
24																												24

(846)

4 clequée à 1500 et pas 1600 (numéros de bouteilles dactylées, 1600 pas clequée)
8 & 9 : 1113 db pour rattraper la bouteille 4

Bank #23 14 $\Rightarrow$ 1.1L
#4 12x $\Rightarrow$ 1.1L

#1 - New G-Flu

Ga 16 24 2. Files E4 $\rightarrow$ samples + bucket (1.6 L)
 $\hookrightarrow$ Not Noteworn Ld.

NO SHAPING SHEETS FOR

THE STATIONS

84 49 - 135
50 - 136
51 - 137
54 - 140
55 - 141
56 - 142
60 - 152

S. A. T
Fawn Inugh

CTD_S_Nd_Ac_FT_station 52_Cast 138

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION 52
CAST 138
DEPTH 2402

DATE: 20/12/21
SAMPLING START (GMT): 13:09
SAMPLING END (GMT): 13:15

Sampling: OISO Team
Sampling: users

ANTICIPATED														Oxygen		Bottle		
Bottle	TARGET	Optimized	REAL	Spun line	CH4	Flask#	Tp°	DIC-AIK	130C	180C	Salinity#	M.P.SI	Ac	REE	Nd	150-150 Pa/Th	10.5	VOL (L)
1	2430 Bot-30 2400	2387	2422		0.2	1	10	1.5	0.25	0.1	0.35	0.2	Ac	REE	Nd	10	10.5	1
2	Bot-30	2387	2422								✓ 0.89			REE	Nd	10		2
3	Bot-30	2387	2422												Nd	10		3
4	Bot-30	2387	2422												Nd	10		4
5	2550	2350	2380															5
6	2500	2350	2380															6
7	2450	2300	2331															7
8	2400	2250	2278															8
9	2400	2250	2278															9
10	2400	2250	2278															10
11	2000	2000	2013															11
12	2000	2000	2013															12
13	MMS1500	1400	1413															13
14	MMS1500	1400	1413															14
15	MMS1500	1400	1413															15
16	Min02_690	500	502															16
17	Min02_690	500	503															17
18	Min02_690	500	503															18
19	Min02_690	500	503															19
20	Min02_690	500	503															20
21	Min02_690	500	503															21
24	Min02_690	500	503															24

demander deux flacons 125 ml a l'heure pour replicats
Ac sera fait sur des containers de PVB
On filtre les 3 prof, on preleve pour REE et Pa/Th filtres
On met 10 L sur cartouche et on garde le reste acidifié a pH2
(pour replicats)
Ac sera fait sur des containers de PVB
Ac sera fait sur des containers de PVB
Ac sera fait sur des containers de PVB
Ac sera fait sur des containers de PVB
pas de stockage ds bidon (on peut preconcentrer un maximum aura plus de volume pour le point)
pas de stockage ds bidon (on peut preconcentrer un maximum aura plus de volume pour le point)
On filtre les 3 prof, on preleve pour REE et Pa/Th filtres
On met 10 L sur cartouche et on garde le reste acidifié a pH2
(pour replicats)
pas de stockage ds bidon (on peut preconcentrer un maximum aura plus de volume pour le point)
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On filtre les 3 prof, on preleve pour REE et Pa/Th filtres
On met 10 L sur cartouche et on garde le reste acidifié a pH2
(pour replicats)

SALINITY

34,71

34,732

34.588

33.971

33.755

24

CTD_S_Ra-Ac-FT_

51 15 35-17-35
(001-139)

STA-53
Cast 139

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

DATE: 30.02.2021
SAMPLING START (GMT): 17:14
SAMPLING END (GMT): 17:36
27 min !

STATION	53
CST	139
DEPTH	

Sampling: OISO Team
Sampling: users

Bottle/TARGET	Optimized	REAL	Spun Line	Oxygen		138C	138O	Salinity	M.P.SI	SP-1500	Ac		Mn-55-154-Ra	Bottle VOL (L)
				CH4	Flasker Tp	DIC-ALK					Ac			
1 Bot-30	2702	2744		0.2	1	1.5	0.25	0.1	0.35	0.2	2	4	10	10.9
2 Bot-30	2702	2744												
3	2550	2650	2692											
4	2550	2650	2692											
5	2400	2550	2588											
6	2300	2350	2384											
7	2300	2350	2384											
8	2000	2000	2026											
9	2000	2000	2026											
10	1750	1750	1772											
11	MMS1500	1550	1517											
12	MMS1500	1300	1317											
13	MMS1300	1300	1317											
14	1000	1100	1010											
15	MMS2-600	700	705											
16	500	500	505											
17	MMS2-300	400	405											
18	MMS2-200	200	200											
19	MMS2-150	110	108											
20	80	79	79											
21	20	20	20											
24	20	20	20											

13 profundes.
Radium per 20 l1
Actinium per 20 l1

ST 57-143 (Sea's Oiso probuvar)
DATE: 21.02.2021
SAMPLING START (GMT):
SAMPLING END (GMT):
Secretary: Helene après les avaries à australis

Helene après les courses à
ostrales

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

[illegible]

CTD_C

Cruise: SWH05 2021
Ship: N/O Marion Doreyne

STATION
CST
DEPTH

DATE
SAMPLING START (GMT)
SAMPLING END (GMT)

21-02-2021

C-58-144

0.3 2.47-105
0.5 1.59-105
5 1.06-104

Unfiltered

Filtered

Unfiltered

RowID	Scan time	Lat/Long	Target	Sample ID	Thg	DOM	Moist	Salinity	DIC	Fe condition	Water supply	Temperature	Transmittance	MPN	Grp	ATM	AM	Urbane	Marine	Saline	Marine 1	Marine 2	Column	NETS	Thalassoplutei	Butterfly	Unfiltered	Filtered	Volume	Volume	Notes
1	10:05:10.3	Bottom 30	2000		*																										
2	10:05:10.9	Bottom 30	2000		*																										
3	10:05:11.3	Bottom 30	1300		*																										
4	10:05:11.7	Bottom 30	1300		*																										
5	10:05:12.1	Bottom 30	1300		*																										
6	10:05:12.5	Bottom 30	1300		*																										
7	10:05:12.9	Bottom 30	1300		*																										
8	10:05:13.3	Bottom 30	1300		*																										
9	10:05:13.7	Bottom 30	1300		*																										
10	10:05:14.1	Bottom 30	1300		*																										
11	10:05:14.5	Bottom 30	1300		*																										
12	10:05:14.9	Bottom 30	1300		*																										
13	10:05:15.3	Bottom 30	1300		*																										
14	10:05:15.7	Bottom 30	1300		*																										
15	10:05:16.1	Bottom 30	1300		*																										
16	10:05:16.5	Bottom 30	1300		*																										
17	10:05:16.9	Bottom 30	1300		*																										
18	10:05:17.3	Bottom 30	1300		*																										
19	10:05:17.7	Bottom 30	1300		*																										
20	10:05:18.1	Bottom 30	1300		*																										
21	10:05:18.5	Bottom 30	1300		*																										
22	10:05:18.9	Bottom 30	1300		*																										
23	10:05:19.3	Bottom 30	1300		*																										
24	10:05:19.7	Bottom 30	1300		*																										

Blank #5 -> 2x
#19 -> 12x (1.3L)

#20 -> 70 (1.7 Volume) -> 22x (1.1 Volume)
#20 -> 44x (1.0L + sample) ALL over.
#18 -> 44 (4.0L Volume)
#16 -> 54x (4.0L ")

58.145

Station: SWG_58_145_P
Bottom Depth: 2087 m

Lat: °S
Long: °E

Cast TM

ISP order	clump 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	5	0.8	0.1	5.1	-7	2037	bottom -50	PIS010	HM8	SUPOR	103.431	104.068	637					X	X			+ blanc
2	5	0.8	2.9	13.0	130	1900		PIS007 + TLOG	HM6	SUPOR	16.368	17.297	929				X	X				Masse d'eau / 2 copepodes transparents
3	5	0.8	16.3	34.3	910	1120		ISPCa 7	ML2	SUPOR	57.172	57.819	647				X	X				Masse d'eau
4	5	0.8	6.3	45.5	1210	820		PIS013	HM5	SUPOR	10.2327	10.8733	640.6				X	X				Masse d'eau
5	5	0.8	0.4	50.9	1230	800		PIS009	HM7	QMAP/IP2	79.959	81.221	1262	X	X							
6	5	0.8	8.3	64.3	1630	400		ISPCa 3	HM2	QMAP/IP2	35.471	36.525	1054	X	X							masse d'eau / 1 copepode + 1 larve + 3 à 8 boules gélatineuses + 1 bébé crevette
7	5	0.8	3.8	73.0	1810	220		ISPCa 6	ML3	SUPOR	40.307	40.974	667				X	X				
8	5	0.8	0.4	78.4	1830	200		PIS012 + TLOG	HM4	QMAP/IP2	84.626	85.625	998	X	X							
9	5	0.8	0.8	84.3	1870	160		ISPCa 2	ML1	SUPOR	17.494	17.815	321				X	X	X			A POMME / 1dème brunes plus forcées pas homogènes
10	5	0.8	0.4	89.7	1890	140		ISPCa 4	HM1	QMAP/IP2	56.245	57.139	894	X	X							
11	5	0.8	0.8	95.5	1930	100		PIS011	HM3	QMAP/IP2	81.088	81.76	672	X	X							
12	5	0.8	0.5	101.0	1955	75		PIS021	EXH	SUPOR	6.306	6.6245	318.5				X	X	X			Masse d'eau / copepodés et un bébé crevette
13	5	0.8	0.9	107.0	2000	30		PIS020	EXH	SUPOR	7.2552	7.3471	91.9				X	X	X			+ blanc
Total (min)	65		42.0	107.0	2037																	
Total (heure)	1.08333		0.7																			

Longeur totale filee

Date	Onboard time	TU
Deployment start time	22/01/2021 01:00	20:00
Pump start date:	22/01/2021 03:15	22:15
Pump end date:	22/01/2021 06:15	01:15
Pump onboard:	22/01/2021 07:30	02:30

Total deployment (min) 117

Total recovery time (min) 117

Remarques: Hauteur de la bordée: 8 m

carotier rate 10 min

ST58-146

CTD_S_OISO_st 58_cast146

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	58
CAST	146
DEPTH	2087

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

22-02-2021
Hélène

Secretary:

Pdbj

Sampling: OISO Team
Sampling: users

ANTICIPATED		DONE		Oxygen																							
BOTTLE TARGET	Optimized	REAL	Spin line	CH14	Flask	Tp	DIC-AIK	138C	138O	Salinity#	N.P.SI	NH4<200	NO3 bot	DON bot	POC/PON	HRIC	Chl<200	Chl vol	FRF	OMC13 deg CTD	Nitrif	colif	234TH	SP-1500	MIB	Nd-iso-15	Bottle
VOL (L)																											
1 Bot-30-15	2072	2100		0.2	37X	0.7	10X	1X	1X	133X																	1
2	1800	1799	1821	1799			20X																				2
3	1600	1610			38X	1.0	30X																				3
4	1400	1400	1418				40X																				4
5	1200	1200	1213		39X	1.5	50X																				5
6	1000	1000	1011	1000			60X	6X	6X	133X																	6
7	800	800	810		40X	1.9	70X																				7
8	600	600	604				30X																				8
9	500	500	506		41X	1.8	90X	9X	9X	134X																	9
10	400	400	403				100X																				10
11	300	300	301		43X	1.8	110X																				11
12	200	200	200		44X	1.7	120X	12X	12X	135X																	12
13	140	140	141		42X	1.7	135X																				13
14	120	120	120																								14
15	120	120	120		48X	1.9	150X																				15
16	100	100	102		45X	1.5	165X	16X	16X	136X																	16
17	80	80	88				170X																				17
18	60	60	60																								18
19	60	58	60		46X	1.6	180X	19X	19X	137X																	19
20	20	19	19				200X																				20
21	10	10	10																								21
24	10	10	10		47X	1.7	240X	24X	24X	138X																	24

34.688
34.693
34.701
34.712
34.720
34.731
34.736
34.732
34.718
34.697
34.664
34.626
34.555
34.531
34.531
84.531
84.452
34.200
34.000
33.934
33.905
33.910
33.810

11 ou 12 a fu (forcé par équipage lors de la mise à bord, nous n'en sont pas sûr du nombre)

Station	58
Lat	
Long	
Date (UTC)	02/22/21
Time (UTC)	05:15
Cast #	147
Bottom Depth (m)	2092
Mixed Layer (m)	50
Target Depths	25, 65, 80, 95, 120, 150

Fail of hose at Junction.
Time 10g forced miss last 2 depths proceeding with 4 repair.

Tank	1	Depth (m)	95	Fill tanks	6:09	Flow through	6:42	Gallons	1216.99	Start	6:42	Stop	6:43	1217.5
Tank	2	Depth (m)	25	Fill tanks	7:27	Flow through	7:27	Gallons	1217.5	Start	7:27	Stop	7:27	1218.75
Tank	3	Depth (m)	38	Fill tanks	8:00	Flow through	8:00	Gallons	1218.75	Start	8:00	Stop	8:00	1219.5
Tank	4	Depth (m)	43	Fill tanks	8:35	Flow through	8:35	Gallons	1220.2	Start	8:35	Stop	8:35	1220.2
Tank	5	Depth (m)	55	Fill tanks	8:51	Flow through	8:51	Gallons	1220.2	Start	8:51	Stop	8:51	1220.2
Tank	6	Depth (m)	65	Fill tanks	9:11	Flow through	9:11	Gallons	1220.2	Start	9:11	Stop	9:11	1220.2
Tank	7	Depth (m)	75	Fill tanks	9:35	Flow through	9:35	Gallons	1220.2	Start	9:35	Stop	9:35	1220.2
Tank	8	Depth (m)	85	Fill tanks	9:51	Flow through	9:51	Gallons	1220.2	Start	9:51	Stop	9:51	1220.2
Tank	9	Depth (m)	95	Fill tanks	10:11	Flow through	10:11	Gallons	1220.2	Start	10:11	Stop	10:11	1220.2
Tank	10	Depth (m)	105	Fill tanks	10:35	Flow through	10:35	Gallons	1220.2	Start	10:35	Stop	10:35	1220.2

Hose was a bowl of spaghetti!

58 -
Cast 147
Ree

CTD_S_St-58_cast 148_Si-Th-Pa/TTh

Cruise: SWINGS 2021
Ship: N/O Marion Dufresne

22/02/21

Secretary:

Call

start = 10:50
end = 11:30

ANTICIPATED		DONE																			
Bottle	TARGET	Optimized	REAL	Spun Line	CHH4	NH4<300	NO3 isot	DON isot	POC/PON	HPIC	Chla <200	FRF	OMIC (3 deg CTO)	Nitrif	calcif	234Th	SP-1500	MRB	Nd-iso-150	Bottle	
VOL (l)																				VOL (l)	
1	1500		1521		0.2	0.15	0.1	0.15	2	1.7	0.7	0.1	10	0.1	0.7	2	X.	2	4	1	
2	1000		1013													X.	X.			2	
3	800		809													X.	X.			3	
4	600		607													X.	X.			4	
5	500		506													X.	X.			5	
6	400		405		Hugo											X.	X.			6	
7	350		352													X.	X.			7	
8	300		301													X.	X.			8	
9	250		250													X.	X.			9	
10	200		202					X 1,7								X.	X.			10	
11	180		180													X.	X.			11	
12	160		159													X.	X.			12	
13	140		141					X 1,7								X.	X.			13	
14	120		121													X.	X.			14	
15	100		97					X 1,7								X.	X.			15	
16	80		81		Hugo											X.	X.			16	
17	60		53		Hugo			X 1,7								X.	X.			17	
18	40		39													X.	X.			18	
19	20		20		Hugo			X 1,7								X.	X.			19	
20	10		10		Hugo			X 1,7								X.	X.			20	
21	10															X.	X.			21	
24	10															X.	X.			24	

de 5 a 1000 pour faire un arrivage sur le port

laurence AL sur la 5

4th sur ces 2 Beukelley

58 - 149.5

Station: SWG_58_149_P
Bottom Depth: 2087 m

Lat: °S
Long: °E

Cast ISO: CI, MRB, PVB

Comment									
ISP order	clamp time (mn)	cable speed (m s ⁻¹)	cable time (mn)	total ship time (mn)	Longueur cable (m)	Target depth (m)	True depth (m)	ISP name	Filter Holder
1	5	0.8	0.2	5.2	-8	2057	bottom 50	PIS010	HM8
2	5	0.8	2.3	12.4	100	1950		PIS007	HM6
3	5	0.8	4.2	21.6	300	1750		ISPCa 7 + TLOG	ML2
4	5	0.8	5.2	31.8	550	1500		PIS013	HM5
5	5	0.8	10.4	47.2	1050	1000		PIS009	HM7
6	5	0.8	5.2	57.4	1300	750	Max 5	ISPCa 2	ML1
7	5	0.8	5.2	67.6	1550	500		ISPCa 3	HM2
8	5	0.8	5.6	78.3	1820	230		ISPCa 6	ML3
9	5	0.8	1.7	84.9	1900	150		PIS021	FH1
10	5	0.8	1.0	91.0	1950	100		PIS012 + TLOG	HM4
11	5	0.8	0.7	96.7	1985	65	winter water	ISPCa 4	HM1
12	5	0.8	0.5	102.2	2010	40		PIS011	HM3
13	5	0.8	0.4	107.6	2030	20		PIS020	FH1
Total (mn)	65		42.6	107.6	2057				FH2
Total (heure)	1,08333		0,7						EXH

Longueur totale file

Date Onboard time

TU

Deployment start time	22/01/2021	16:00	11:00
Pump start date:	22/01/2021	17:45	12:45
Pump end date:	22/01/2021	20:45	15:45
Pump onboard:	22/01/2021		

Total deployment (mn)	118
Total recovery time (mn)	118

Remarques:
Hauteur de la bordée: 8 m
carotier 10 min

Cruise: SWINGS 2021
Ship: N/O Marion Dufrenoy

STATION	
CAST	
DEPTH	

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

22-01-2021.

C-58-1150

$$\begin{array}{r} 1.15 \text{ €} \\ 5.79 \text{ €} \\ 4.59 \text{ €} \\ 2 \end{array}$$

Bottle	Spec line	Justification	target	Sample ID	Thg	OCM	Metg	Salinity	DOC	Frondation	Water temp	Isotopes	Termin/No	Session #	N.P.Si	dFe	dTM	dcl	Isotope (GEO)	Isotope (GEO)	Salter	Fluorine 1	Fluorine 2	Carbon	BES	Zn isotope	dTM	Bucket #	unfiltered	collected	Volume	Volume	
1		PA1	Bottom -30																														
2			Bottom -30																														
3			Bottom -30																														
4			Bottom -30																														
5			Bottom -30																														
6			Bottom -30																														
7			Bottom -30																														
8		PA1	Bottom -30																														
9		PA1	Bottom -30																														
10			Bottom -30																														
11			Bottom -30																														
12			Bottom -30																														
13			Bottom -30																														
14		PA1	Bottom -30																														
15		PA1	Bottom -30																														
16		PA1	Bottom -30																														
17			Bottom -30																														
18			Bottom -30																														
19			Bottom -30																														
20			Bottom -30																														
21			Bottom -30																														
22			Bottom -30																														
23			Bottom -30																														
24			Bottom -30																														

Supposed

for better access

Lineages numbers

—

206 → 15
214 → 16

$15A \rightarrow 6x$
 $15\text{ blank} \rightarrow 55x$
 $16B \rightarrow 58x$
 $16C \rightarrow 18$
 $13A \rightarrow 15x$
 $13\text{ blank} \rightarrow 26x$
 $14B \rightarrow 16x$
 $14C \rightarrow 23x$

could not
be done
due to
lack of
Sw

CTD_S_59_Nd_CAST CATH (151)

Cruise: SWINGS 2021

Ship: N/O Marion Dufresne

STATION	59
CAST	151
DEPTH	

Sampling: OSO Team

ANTICIPATED		DOING		Oxygen		DIC-ALK		SP-1500		Ba at 2000 m		Nd-150 et P RADIUM		MIB		Bottle
Bottle/TARGET	Optimized	REAL	Spun Line	Flask#	TP			1.5	2.5		4	10	10.9	12.8	VOL (l)	
1	Bottom-10	4562		1	0218						X	X			1	
2	Bottom-10	4384			X						X	X			2	
3	4200	4195			X						X	X			3	
4	4200	4193			X						X	X			4	
5	4000	4077			X						X	X			5	
6	4000	4032			X						X	X			6	
7	3500	3511			X						X	X			7	
8	3500	3531			X						X	X			8	
9	3000	3050									X	X			9	
10	3000	3050									X	X			10	
11	2750	2791									X	X			11	
12	2500	2540									X	X			12	
13	2000	2027									X	X			13	
14	2000	2027									X	X			14	
15	1500	1518									X	X			15	
16	1500	1518									X	X			16	
17	1000	1013									X	X			17	
18	500	605									X	X			18	
19	200	304									X	X			19	
20	100	111									X	X			20	
21	-50	49									X	X			21	
24	-20	20									X	X			24	

34.656
34.656
34.656
34.656
34.662
34.668
34.671
34.675
34.685
34.699
34.725
34.726
34.592
34.268
34.849
33.848

pour l'analyse (je la suppléerai volontairement)

34.699
34.725
34.726
34.592
34.268
34.849
33.848

$$\delta = \left(\frac{\text{measured}}{\text{ref.}} - 1 \right) \times 1000$$

$$\delta = \left(\frac{\frac{14.3}{14.4}}{\text{ref.}} - 1 \right) \times 1000$$

34.699
34.725
34.726
34.592
34.268
34.849
33.848

34.699
34.725
34.726
34.592
34.268
34.849
33.848

34.699
34.725
34.726
34.592
34.268
34.849
33.848

CTD_S_61_Nd_Ra(151)

12h50 (shiptive)

Ship: N/O Marion Dufresne

Sampling: OLSO Team

Sampling: OISO Team

ANTICIPATED

OXYGEN

Oxygen

Bottle/TARGET

Optimized

REAL

Spun Line

Flask#

Tp°

DIC-ALK

SIP-1500

Ba at 2000 m

Nd-Isot and FRADUM

MRE

Bottle

VOL (L)

17

Bot-20

1091

1099

1091

1950

1750

1750

1500

1500

1000

750

500

350

230

230

150

150

100

100

65

65

40

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CTD_S_62_OISO_All_154

Cruise: SWINGS 2021

Ship: N/O Marion Dufresne

STATION	
CAST	
DEPTH	

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

Cal
 10:120
 11:120

Sampling: OISO Team
 Sampling: users

ANTICIPATED				Oxygen		DIC-AIR		13C	18O	Salinity	Heads	CH4	NO3	DON	POC/POH	HPIC	Chlo	c200	FRRF	CHL	B	CTC	NIR	Cal	SP-1500	Ba	2000 m	Nd	et F	RADUM	MRB	Bottle	
Bottle	TARGET	Optimized	REAL	Spin time	Flask	1p																											
1	Bot-20	1	1350		1		X 1A.	1.5	0.25	0.1	X 133.	X C	0.06	0.15	0.1	0.15	2.5	2.5	0.1	10	0.1	0.7	2	2.5		X	10	10.76	12.8	1	34.71		
2	Bot-20		1950			X 2.	10																			X						34.71	
3	Bot-20		180																							X							34.71
4	1600 3200		1601			X 4.	1, 1°	X 14A.			X 14.0°															X						34.71	
5	1600		1621			X 5.	1, 2	X 5A.			X 14.1															X						34.71	
6	-1500 ou 1400		1417																							X							34.71
7	1400		1417																							X							34.73
8	1200		1214			X 8.	15	X 8A.			X 14.2.	6H														X						34.73	
9	1000		1012					X 9A.																		X							34.73
10	800		803			X 10.	2, 0	X 20A.			X 14.3.	6H														X						34.72	
11	600		606			X 11.	2, 3	X 11A.																								34.72	
12	500		504																														34.70
13	400		404			X 13.	2, 5	X 23A.			X 14.4.	CH4														X						34.64	
14	230		220			X 13.0	2, 3	X 14A.																		X						34.64	
15	210		222			X 15.	2, 2	X 15A.			X 14.5.	CH4														X						34.59	
16	150		151			X 16.	2, 1	X 16A.																		X						34.53	
17	minO2 100		101			X 17.	1, 9																			X						34.53	
18	minO2 100		101					X 18A.																		X							34.53
19	40		41			X 19.	1, 5	X 19A.																		X							33.88
20	40		41			X 20.	1, 5	X 20A.			X 14.6.	CH4														X							33.88
21	40		41																														33.88
24	20		20			X 24.		24A.																									33.88

La 24 n'a pas été chargée.
 N° 24 a été pris sur 21 (400), 18 (100), 15 (220), 7 (1400) et 2 (Bot-20)

Les Rodium font aussi 25, 15, 10, 5, 2, 1, 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

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