Fondation taraocéan explore and share

LOG_SML-SEA SURFACE MICROLAYER

tara EUROPA — B1

YYYY	MM	DD	HH	MM		# # #		OPERATOR(S) INITIALS
2023	08	05	09	00	_STATION-	59	_SML	EB

Water Collection — Number of dips: 10 — Volume Collected (L): 0.5L

Protocol	Quantity, Container Storage	Replicate 1	Replicate 2	Replicate 3	Comments
SML-FC	Cryotube (2ml) 1.5ml sample + 30 µl Glute 25% LN2 (-80°C)	112495482	112495481		
SML-CP	Cryotube (5ml) 3ml sample + 750 µl Glycerol RT (-80°C)	112495483	112495484	112495485	
SML-320	Cryotube (2ml) Filter 3µm PC LN2 (-80°C)	112495486	112495487	112495488	~150ml
SML-023	Cryotube (2ml) Filter 0.22µm PC LN2 (-80°C)	112495489	112495490	112495491	~150ml

YYYY	MM	DD	HH	MM		# # #		OPERATOR(S) INITIALS
2023	08	07	12	20	_STATION-	60	_SML	EB

Water Collection — Number of dips: 10 — Volume Collected (L): 0.5L

Protocol	Quantity, Container Storage	Replicate 1	Replicate 2	Replicate 3	Comments
SML-FC	Cryotube (2ml) 1.5ml sample + 30 µl Glute 25% LN2 (-80°C)	112495565	112495566		
SML-CP	Cryotube (5ml) 3ml sample + 750 µl Glycerol RT (-80°C)	112495556	112495557	112495558	
SML-320	Cryotube (2ml) Filter 3µm PC LN2 (-80°C)	112495562	112495563	112495564	~150ml
SML-023	Cryotube (2ml) Filter 0.22µm PC LN2 (-80°C)	112495559	112495560	112495561	~150 ml

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LOG_UDW-AEROSOLS

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B1

	COMMENTS
1	
2	
3	
4	
5	
6	
7	

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LOG-SAMPLES_W-LAB-142-1

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C1

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	08	07	_STATION-	0	6	0	_W-LAB-142-1

OPERATOR(S): OB

Depth Replicate	S320 Cryo-5mL LN2 #1	S023 Cryo-5mL LN2 #1	Filtration Volume (Litres)	Filtration Duration (minutes)	S<02 Cryo-5mL FRG +4°C	Filtration Volume (Litres)
Z00 R01 m	112493010	112493011	[ ] 20L [ ] 50L 10 L	[ ] 15' [ ] 60' 13 min.	112493014	[ ] 10L [ ] 20L 10 L
Z00 R02 m	112493012	112493013	[ ] 20L [ ] 50L 10 L	[ ] 15' [ ] 60' 13 min.	112493015	[ ] 10L [ ] 20L 10 L
Z02 R01 m	###-Z02 S320-1	###-Z02 S023	[ ] 20L [ ] 50L L	[ ] 15' [ ] 60' min.	###-Z02 S<02	[ ] 10L [ ] 20L L
Z02 R02 m	###-Z02 S320-2	###-Z02 S023-2	[ ] 20L [ ] 50L L	[ ] 15' [ ] 60' min.	###-Z02 S<02-2	[ ] 10L [ ] 20L L

Depth Replicate	P320 Cryo-5mL LN2 #1	P023 Cryo-5mL LN2 #1	Filtration Volume (Litres)	Filtration Duration (minutes)	< 0.2 µm
Z00 m	112493016	112493017	[ ] 20L [ ] 50L 17 L	[ ] 15' [ ] 60' 60 min.	=> Collect filtrate for SS protocols onland : VV<0.2, qPCR<0.2
Z02 m	###-Z02 P320	###-Z02 P023	[ ] 20L [ ] 50L L	[ ] 15' [ ] 60' min.	

Depth Replicate	S320-L 15mL falcon -20°C + 10 mL Nucleoprotect	S023-L 15mL falcon -20°C + 10 mL Nucleoprotect	Filtration Volume (Litres)	Filtration Duration (minutes)	
Z00 m	112559009	112559010	[ ] 20L [ ] 50L 13 15 } 28 L	[ ] 15' [ ] 60 25 +10 25 min.	} 60 min
Z02 m	###-Z02 S320-L	###-Z02 S023-L	[ ] 20L [ ] 50L L	[ ] 15' [ ] 60 min.	

Depth Replicate	COMMENTS S####
Z00 R01 m	13 min filtration + 3/4 min purge
Z00 R02 m	13 min filtration + 3/4 min purge.
Z02 R01 m	
Z02 R02 m	

Depth	COMMENTS P####
Z00 m	no volume meter, I just look at the marks on the carboy.
Z02 m	

Depth	COMMENTS S###L
Z00 m	25 min filtration + 10 min to collect and change filters ⇒ 35 min.
Z02 m	

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	08	07	_STATION-	0	6	0	_DECK-BGC
OPERATOR(S)	T.S.							

Depth	TOC Vial-40mL FRG +4°C	TOC Vial-40mL FRG +4°C	TOC Vial-40mL FRG +4°C		DICTA Bottle-500mL RT >10°C	SAL Bottle-125mL RT >10°C
Z00 m	112559017	112559018	112559019		112559136	###-Z00 SAL
Z02 m	###-Z02 TOC-1	###-Z02 TOC-2	###-Z02 TOC-3		###-Z02 DICTA	###-Z02 SAL
	+ 150 µl HCl				+ 300 µl $HgCl_2$	

Depth		CDOM/FDOM Bottle-60mL FRG +4°C	DOC Vial-40mL FRG +4°C	NUT Bottle-60mL FRZ -20°C
Z00 m	R01	112559020	112559023	112559026
Z00 m	R02	112559021	112559024	112559027
Z00 m	R03	112559022	112559025	112559028
Z02 m	R01	###-Z02 DOM-1	###-Z02 DOC-1	###-Z02 NUT-1
Z02 m	R02	##-Z02 DOM-2	###-Z02 DOC-2	###-Z02 NUT-2
Z02 m	R03	##-Z02 DOM-3	###-Z02 DOC-3	###-Z02 NUT-3
			+ 150 µl HCl	

Depth	COMMENTS TOC	COMMENTS DICTA	COMMENTS SAL
Z00 m			
Z02 m			

Depth Replicate	COMMENTS CDOM/FDOM	COMMENTS DOC	COMMENTS NUT
Z00 R01 m			
Z00 R02 m			
Z00 R03 m			
Z02 R01 m			
Z02 R02 m			
Z02 R03 m			

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	08	07	_STATION-	0	6	0	_TARDIS-SCP
OPERATOR(S)	T.S.							

Depth		PPL Falcon-50mL FRZ -20°C	Filtration Volume (Litres)	Filtration Duration (minutes)	HLB Falcon-50mL FRZ -20°C	Filtration Volume (Litres)	Filtration Duration (minutes)
Z00 m	R01	112559086	[ ] 1L [ ] 2L ~1.85 L	[ ] 60' [ ] 120' 180 min.	112559091	[ ] 1L [ ] 2L ~1.85 L	[ ] 60' [ ] 120' 180 min.
Z00 m	R02	112559087	[ ] 1L [ ] 2L 1.80 L	[ ] 60' [ ] 120' 180 min.	112559092	[ ] 1L [ ] 2L ~1.85 L	[ ] 60' [ ] 120' 180 min.
Z00 m	R03	112559088	[ ] 1L [ ] 2L 1.85 L	[ ] 60' [ ] 120' 180 min.	112559093	[ ] 1L [ ] 2L ~1.85 L	[ ] 60' [ ] 120' 180 min.
Z00 m	R04	112559089	[ ] 1L [ ] 2L 1.85 L	[ ] 60' [ ] 120' 180 min.	112559094	[ ] 1L [ ] 2L ~1.85 L	[ ] 60' [ ] 120' 180 min.
Z02 m	R01	###-Z02 PPL-1	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.	###-Z02 HLB-1	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.
Z02 m	R02	###-Z02 PPL-2	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.	###-Z02 HLB-2	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.
Z02 m	R03	###-Z02 PPL-3	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.	###-Z02 HLB-3	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.
Z02 m	R04	###-Z02 PPL-MQW-pH2	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.	###-Z02 HLB-MQW	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.

Depth Replicate	MB320 50mL-Falcon FRZ -20°C	Filtration Volume (Litres)	Filtration Duration (minutes)	MB033 50mL-Falcon FRZ -20°C	Filtration Volume (Litres)	Filtration Duration (minutes)
Z00 m	112559096	[ ] 16L L	[ ] 30 min.	112559097	[ ] 16L L	[ ] 30 min.
Z02 m	###-Z02 MB320	[ ] 16L L	[ ] 30 min.	###-Z02 MB033	[ ] 16L L	[ ] 30 min.

Depth		COMMENTS
Z00	R01 m	
Z00	R02 m	
Z00	R03 m	
Z00	R04 m	
Z02	R01 m	
Z02	R02 m	
Z02	R03 m	
Z02	R04 m	
		possible contamination due to heavy wind and rain

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LOG-SAMPLES_S-LAB-OTHER

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E1

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	08	07	_STATION-	0	6	0	_S-LAB-OTHER
OPERATOR(S)	E Boss							

Depth Replicates	HC Cryo-5mL LN2 #1	HC-G Cryo-5mL LN2 #1	CP-G Cryo-5mL LN2 #1	SG Cryo-5mL LN2 #1	FC-P Cryo-2mL LN2 #3	FC-G Cryo-2mL LN2 #3
Z00 m R01	112495545	112495537	112495529	112495526	112495504	112495506
Z00 m R02	112495544	112495536	112495528	112495567	112495503	112495505
Z00 m R03	112495543	112495535	112495527	Glycine-betaine prealiquot at 4°C	PFA prealiquot at -20°C	Glutaraldehyde prealiquot at -20°C
Z00 m R04	112495542	112495534	Glycerol prealiquot - RT			
Z00 m R05	112495541	112495533		**DGAS*** **12 mL exetainer** **+4°C**	**DGAS*** **12 mL exetainer** **+4°C**	**DGAS*** **12 mL exetainer** **+4°C**
Z00 m R06	112495540	112495532		###-Z00 DGAS-1	###-Z00 DGAS-4	###-Z00 DGAS-7
Z00 m R07	112495539	112495531		###-Z00 DGAS-2	###-Z00 DGAS-5	###-Z00 DGAS-8
Z00 m R08	112495538	112495530		###-Z00 DGAS-3	###-Z00 DGAS-6	###-Z00 DGAS-9
Prealiquot	No prealiquot	Glycerol prealiquot - RT		* + 100 µL $ZnCl^2$	* + 100 µL $ZnCl^2$	* + 100 µL $ZnCl^2$

Depth Replicate	eDNA Watera capsule RT	Filtration Volume (Litres)	Filtration Duration (minutes)	+ 50 mL of buffer	< 0.45 µm
Z00 m	112559122	[ ] 30L 20 L	[✓] 30 min.	=> Collect filtrate for SS protocol onland : V<0.45	
Z02 m	###-Z02 eDNA	[ ] 30L L	[ ] 30 min.		

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LOG-SAMPLES_S-LAB-OTHER

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E1

Depth Replicate		COMMENTS
Z00	R01 m	put too much fluid in SG-2 & redid it.
Z00	R02 m	
Z00	R03 m	
Z00	R04 m	
Z00	R05 m	
Z00	R06 m	
Z00	R07 m	
Z00	R08 m	

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LOG-SAMPLES_S-LAB-DECKNET-5

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E2

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	08	07	_STATION-	0	6	0	_S-LAB-DECKNET-5

OPERATOR(S) E.Boss

Depth	DECKNET Volume (Litres)	Time start FILLING ##:##	Time end NET OUT ##:##	SG5-1* Cryo-5mL LN2	SG5-2* Cryo-5mL LN2
Z00 m	[ ] 100 L 50 L	11:45	12:20	112495523	112495524
Z02 m	[ ] 100 L L	:	:	### Z02 SG5-1	### Z02 SG5-2
				* Glycine-betaine pre-aliquot at 4°C	

Depth	FM5-1* Falcon-50mL FRG +4°C	FM5-2* Falcon-50mL FRG +4°C
Z00 m	112559041	112559042
Z02 m	### Z02 FM5-1	### Z02 FM5-2
	*pre-aliquoted 5 mL PFA/GLUT stored at -20°C	

Depth	COMMENTS SG5
Z00 R01 m	
Z00 R02 m	

Depth	COMMENTS FM5
Z00 R01 m	
Z00 R02 m	

LOG_SAMPLES_	YYYY: 2023	MM: 08	DD: 07
_STATION-	#: 0	#: 6	#: 0
_S-LAB-25-1			
OPERATOR(S)	Clara		

Depth	Turbidimeter (FNU)		PM control (EVERY TWO STATIONS)	Filtration Volume (mL)	N° filtres + weight (mg)	
Z00 m	1. 0.66 2. 0.65 3. 0.66		###-Z00 PM-CTRL	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight.	
Z02 m	1. 2. 3.		**TRIPLICATES ONCE A MONTH FOR HP**	**HP Cryo-2mL LN2 #2**	**Filtration Volume (mL)**	**Filtration Duration (minutes)**

Depth	PA Petridish FRZ -20°C	Filtration Volume (mL)	HP	HP Cryo-2mL LN2 #2	Filtration Volume (mL)	Filtration Duration (minutes)
			Z00 R01 m	112495546	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [x] 1080 [ ] 2270	[ ] 30' [ ] 40' max 27 min
Z00 m	112559046	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [x] 1080 [ ] 2270	Z00 R02 m	###-Z00 HP-2	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	[ ] 30' [ ] 40' max min
Z02 m	###-Z02 PA	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	Z00 R03 m	###-Z00 HP-3	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	[ ] 30' [ ] 40' max min

Depth	PM Petridish FRZ -20°C	Filtration Volume (mL)	N° filtre + weight (mg)	FOI Petridish FRZ -20°C	Filtration Volume (mL)	N° filtre + weight (mg)
Z00 R01 m	112559043	[ ] 65 [ ] 135 [ ] 270 [x] 635 [ ] 1080 [ ] 2270	N°: TR159 Weight: 37,396	112559047	[ ] 65 [ ] 135 [ ] 270 [x] 635 [ ] 1080 [ ] 2270	N°: TR 25 Weight: 37,095
Z00 R02 m	112559044	[ ] 65 [ ] 135 [ ] 270 [x] 635 [ ] 1080 [ ] 2270	N°: TR 192 Weight: 37,551	112559048	[ ] 65 [ ] 135 [ ] 270 [x] 635 [ ] 1080 [ ] 2270	N°: TR 142 Weight: 37,391
Z00 R03 m	112559045	[ ] 65 [ ] 135 [ ] 270 [x] 635 [ ] 1080 [ ] 2270	N°: TR 288 Weight: 37,253	112559049	[ ] 65 [ ] 135 [ ] 270 [x] 635 [ ] 1080 [ ] 2270	N°: TR 226 Weight: 37,795
Z02 R01 m	###-Z02 PM-1	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight:	###-Z02 FOI-1	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight:
Z02 R02 m	###-Z02 PM-2	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight:	###-Z02 FOI-2	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight:
Z02 R03 m	###-Z02 PM-3	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight:	###-Z02 FOI-3	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: Weight:

Depth Replicate		COMMENTS PM	COMMENTS FOI
Z00	R01 m		
Z00	R02 m		
Z00	R03 m		
Z02	R01 m		
Z02	R02 m		
Z02	R03 m		

Depth Replicate	COMMENTS PA - HP
Z00 m	
Z02 m	

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LOG-SAMPLES_S-LAB-NET-20

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F2

	YYYY	MM	DD		#	#	#	
LOG-SAMPLES_	2023	08	07	_STATION-	0	6	0	_S-LAB-NET-20
OPERATOR(S)	Clara							

	Net 20 µm			[●] Decknet [ ] Deployed at sea		
SAMPLE SPLITTING	# of cod-ends [●] 1 [ ] 2	Total volume [●] 1600 mL	Aliquots vol. [ ] 200 mL			
PROTOCOLS	Barcode	Fraction of total volume	Aliquot Volume (mL)	Barcode	Fraction of total volume	Aliquot Volume (mL)
● S20 Cryo-5mL LN2 #1	112495547	[●] 1/8	[●] 200 mL [ ] 15 mn	112495548	[●] 1/8	[●] 200 mL [ ] 15 mn
FCAM20 Bottle-250mL LIVE	112559054	[ ] 1/8	[ ] 200 mL			
E20 Falcon-15mL + 15mL ETOH FRZ -20°C	112559050	[●] 1/8	[●] 200 mL			
S20-L Falcon-5mL FRZ -20°C + 5 mL NucleoProtect	112559055	[ ] 1/8	[●] 200 mL [ ] 15 mn			
MB20 Vial-4mL FRZ -20°C	112559051	[●] 1/8	[●] 200 mL			
FM20 Falcon-50mL FRG +4°C Prealiquoted PFA+GLUTA store at -20°C	112559052	[●] 45 mL		112559053	[●] 45 mL	

	COMMENTS	COMMENTS
SAMPLE SPLITTING		
PROTOCOLS		
S20 Cryo-5mL LN2 #1		
FCAM20 Bottle-250mL LIVE		
E20 Falcon-15mL FRZ -20°C		
S20-L Falcon-5mL FRZ -20°C		
MB20 Vial-4mL FRZ -20°C		
FM20 Falcon-50mL FRG +4°C		

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LOG-SAMPLES_S-LAB-NET-200

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F3

	YYYY	MM	DD		#	#	#	
LOG-SAMPLES_	2023	08	07	_STATION-	0	6	0	_S-LAB-NET-200
OPERATOR(S)	Clara							

	Horizontal WPII-200					
SAMPLE SPLITTING	**COD-END #1**					
PROTOCOLS	**Barcode**		**Aliquot Volume (mL)**			
F200 Bottle-250mL + borax/formol RT >10°C	112559058		[•] 250 mL			
SAMPLE SPLITTING	**COD-END #2**	**Total volume** [•] 1600 mL	**Aliquots vol.** [ ] 200 mL			
PROTOCOLS	**Barcode**	**Fraction of total volume**	**Aliquot Volume (mL)**	**Barcode**	**Fraction of total volume**	**Aliquot Volume (mL)**
S200 Cryo-5mL LN2 #1	112495549	[ ] 1/8	[ ] 200 mL 180mL [ ] 15 mn	112495550	[ ] 1/8	[ ] 200 mL 170mL [ ] 15 mn
S200-L Falcon-5mL FRZ -20°C + 5mL Nucleo	112559056	[ ] 1/8	[•] 200 mL [ ] 15 mn			

	COMMENTS	COMMENTS
SAMPLE SPLITTING		
PROTOCOLS		
F200 Bottle-250mL RT >10°C		
SAMPLE SPLITTING		
PROTOCOLS		
S200 Cryo-5mL LN2 #1	Did not filter 200mL because already a lot of biomass and thought that more would be difficult to put in cryotube.	
S200-L Falcon-5mL FRZ -20°C		

Fondation tara océan explore and share

LOG-SAMPLES_S-LAB-NET-680

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F4

	YYYY	MM	DD		#	#	#	
LOG-SAMPLES_	2023	08	07	_STATION-	0	6	0	_S-LAB-NET-680

OPERATOR(S) Clara

	Régent 680					
SAMPLE SPLITTING	NET TOW #1 Total volume [ ] 1600 mL			NET TOW #2 Total volume [■] 1600 mL		
PROTOCOLS	Barcode		Bottle volume (mL)	Barcode	Fraction of total volume	Aliquot Volume (mL)
F680 Bottle-250mL RT >10°C + Borax/Formol	112559059		[●] 250 mL			
F2000 Bottle-250mL RT >10°C + borax/formol	### EPI F2000	hand-picked #ind=	[ ] 250 mL			
S680-L Falcon-5mL FRZ -20°C + 5mL Nucleoprotect				112559057		[ ] 200 mL [ ] 400 mL [ ] 600 mL [X] 800 mL [ ] 15 mn

	COMMENTS	COMMENTS
SAMPLE SPLITTING		
PROTOCOLS		
F680 Bottle-250mL RT >10°C		
F2000 Bottle-250mL RT >10°C		
S680-L Falcon-5mL FRZ -20°C		