Fondation tara océan — explore and share

LOG-SAMPLES_W-LAB-142-1

tara EUROPA   C1

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	06	24	_STATION-	0	4	1	_W-LAB-142-1

OPERATOR(S) JOB

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	112497079	112497080	[ ] 20L [ ] 50L 7 L	[✓] 15' [ ] 60' min.	112497083	[ ] 10L [ ] 20L 7 L
Z00 R02 m	112497081	112497082	[ ] 20L [ ] 50L 6 L	[✓] 15' [ ] 60' min.	112497084	[ ] 10L [ ] 20L 6 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	112557688	112557689	[ ] 20L [ ] 50L 20 L	[ ] 15' [✓] 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	112497085	112497086	[ ] 20L [ ] 50L 15 L	[ ] 15' [✓] 60 min.	
Z02 m	###-Z02 S320-L	###-Z02 S023-L	[ ] 20L [ ] 50L L	[ ] 15' [ ] 60 min.	

Depth Replicate		COMMENTS S###
Z00	R01	
	m	
Z00	R02	
	m	
Z02	R01	
	m	
Z02	R02	
	m	

Depth	COMMENTS P###
Z00	
m	
Z02	
m	

Depth	COMMENTS S###L
Z00	
m	
Z02	
m	

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	06	24	_STATION-	0	4	1	_DECK-BGC

OPERATOR(S): GB

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	112557731	112557732	112557733		112557742	###-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	R01 m	112557737	112557734	112557728			
Z00	R02 m	112557738	112557735	112557729			
Z00	R03 m	112557739	112557736	112557730			
Z02	R01 m	###-Z02 DOM-1	###-Z02 DOC-1	###-Z02 NUT-1			
Z02	R02 m	##-Z02 DOM-2	###-Z02 DOC-2	###-Z02 NUT-2			
Z02	R03 m	##-Z02 DOM-3	###-Z02 DOC-3	###-Z02 NUT-3			
			+ 150 µl HCl				

Depth	COMMENTS TOC	COMMENTS DICTA	COMMENTS SAL
Z00 ___ m	TOC FROM NISKIN ORDER: NUT-1,2,3; DOC-1,2,3; DOM-1,2,3 1 STERIVEX FILTER	AT THE END THE FILTER WAS COLORED A LOT ALMOST CLOGGED ON DOM-3	
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			

LOG_SAMPLES_ | YYYY **2023** | MM **06** | DD **24**   _STATION- **0 4 1** _TARDIS-SCP

OPERATOR(S) **GB**

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	112557724 PPL-1	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **133** min.	112557720	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **133** min.
Z00 m	R02	112557725	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **134** min.	112557721	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **134** min.
Z00 m	R03	112557726	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **134** min.	112557722	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **233** min.
Z00 m	R04	112557727	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **132** min.	112557723	[ ] 1L [x] 2L L	[ ] 60' [ ] 120' **134** 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-4	[ ] 1L [ ] 2L L	[ ] 60' [ ] 120' min.	###-Z02 HLB-4	[ ] 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	112557718	[ ] 16L **17** L	[ ] 30 **24** min.	112557719	[ ] 16L **17** L	[ ] 30 **24** min.
Z02 m	###-Z02 MB320	[ ] 16L L	[ ] 30 min.	###-Z02 MB033	[ ] 16L L	[ ] 30 min.

Depth		COMMENTS
Z00	R01	MB FILTRATION STARTED WITH 30 min DELAY (eDNA PROTOCOL)
	m	ENGINES ON DURING THE EXTRACTION
Z00	R02	
	m	
Z00	R03	
	m	
Z00	R04	
	m	
Z02	R01	
	m	
Z02	R02	
	m	
Z02	R03	
	m	
Z02	R04	
	m	

LOG_SAMPLES_ YYYY `2023` MM `06` DD `24` **_STATION-** # `0` # `4` # `1` **_S-LAB-OTHER**

OPERATOR(S) `Agata 3.`

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	R01 m	112497087	112497095	112497103	112497106	112497110	112497112
Z00	R02 m	112497088	112497096	112497104	112497107	112497111	112497113
Z00	R03 m	112497089	112497097	112497105	Glycine-betaine prealiquot at 4°C	PFA prealiquot at -20°C	Glutaraldehyde prealiquot at -20°C
Z00	R04 m	112497090	112497098	Glycerol prealiquot - RT			
Z00	R05 m	112497091	112497099		DGAS 12 mL exetainer +4°C	DGAS 12 mL exetainer +4°C	DGAS 12 mL exetainer +4°C
Z00	R06 m	112497092	112497100		112557673	112557676	112557679
Z00	R07 m	112497093	112497101		112557674	112557677	112557680
Z00	R08 m	112497094	112497102		112557675	112557678	112557681
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	112557682	[ ] 30L 2̶1̶5 L	[ ] 30 45 min.	=> Collect filtrate for SS protocol onland : V<0.45		
Z02 m	###/Z02 eDNA	[ ] 30L _L	[ ] 30 _min.			

Tips for operator C

Autors :

- Julie Poulain (Lorient-Ostende)
- Margaux Crédeville (Oostende – Aarhus)

Day before the station

- Prepare the logsheets, labels, tubes (only logsheets "samples", this one, print the logsheets "event")
- 2 racks with location of tubes are ready to use for 4 stations, in the wetlab
- Few tubes are available in a grey box in the wetlab, near the peristaltic pump. If not enough, the stock is in the forepeak.

- Make sure you have all the consumables you need for the station (enough DACRON pads and filtres, enough bleach 10% for rinsing, spray bottles filled)

Starting the station

- In the atelier, if not yet done switch ON the circuit-breaker of the wetlab on electric board
- In the wetlab, prepare all the tripods
    - Humidify the blue filter holders using spray of MQW and place Dacron pads
    - Humidify the Dacron pads using spray of MQW and place the right filters
    - Close all the tripods

- Outside the wetlab,
    - Place the funel equiped with 20 µm mesh on the dedicated holder. Attach using elastic a piece of 200 µm mesh on the outlet of the tube connected to pump A20. Then attach the weight on the inlet of the tube. Dip the tube inlet to the surface sea water (~1m)
    - Start the pump A20 (switch O/I in the wetlab) and rinse all carboys using the FSW<20 µm. For virus carboys // and // rinse with FSW<0,1 µm. The pipe of the Filter Sea Water <0,2 µm is on the right of the wetlab and the swith is located on the aft deck, port side

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E2

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	06	24	_STATION-	0	4	1	_S-LAB-DECKNET-5

OPERATOR(S): Agata 3.

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 60 L	07:32	09:00	112497108	112497109	
Z02 m	[ ] 100 L L			### Z02 SG5-1	### Z02 SG5-2	

Depth	FM5-1* Falcon-50mL FRG +4°C	FM5-2* Falcon-50mL FRG +4°C				
Z00 m	112557740	112557741				
Z02 m	### Z02 FM5-1	### Z02 FM5-2				

*pre-aliquoted 5 mL PFA/GLUT store at -20°C

* pre-aliquoted Glycine betaine store at 4°C

- When the first carboy is full, go to the next one and start the filtration immediately (Cf Handbook), launch the timer and the debimeter.
- Process in the same way for the next full carboy

During the station
- Keep always an eye on carboys and tripods
- If air is present don't hesitate to use the bleeding valves
- If there are leaks around or under the tripode, stop the filtration by releasing the hose from the head and resolve it. The reasons can be various. Incorrectly tightened throttles, jaws or clamps. Damaged O-ring, filter support and/or grille badly positioned. After some time of filtration it can be due to the saturation of the filter. In this case you may have to decide to stop the filtration before reaching the set time or volume.
  All stuff and spare for repration are in the black and red case in the wetlab
- Fill the logsheet with filtered volume, time of filtration and any comments (at the back of the logsheet) if something have running wrong

Endding the station
- Store S320-L/S023-L and S<02-R01 and R02 in the forepeak freezer and fridge respectively
- Clean all the tripods and carboys and let dried (tripode opened)
- Fill the MQW tank (it's not recommanded to do that at the begining or during the station)
- Prepare new bleach solution (10%) for the next station
- Check your logsheets (Events and Samples) and store them in the folder « Logsheets to scan »
- Fill the TaraEuropa_Samples_Inventory_Shipping file
  https://docs.google.com/spreadsheets/d/180Bqgv3TUK45k79oEUiC7QQH7Rejp2MMH_K1KHyq_nc/edit#gid=0

Depth	COMMENTS SGS FMS	
Z00	R01	m
Z00	R02	m
Z00	R01	m
Z00	R02	m

	YYYY	MM	DD		#	#	#	
LOG_SAMPLES_	2023	06	24	_STATION-	0	4	1	_S-LAB-25-1

OPERATOR(S): D.D.

Depth	Turbidimeter (FNU)		PM control (EVERY TWO STATIONS)	Filtration Volume (mL)	N° filtres + weight (mg)	
Z00 __ m	1. 4.21 2. 4.16 3. 4.30		112557655	[ ] 65 [ ] 135 [ ] 270 [ ] 635 [X] 1080 [ ] 2270	N°: TR 236 Weight: 36604	
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)	Z00 R01 __ m	112497020	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	[ ] 30' [ ] 40' max min
Z00 __ m	112557656	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 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	112557657	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: TR 239 Weight: 37.237	112557660	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: TR 238 Weight: 38.005
Z00 R02 __ m	112557658	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: TR280 Weight: 36.477	112557661	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: TR257 Weight: 36.884
Z00 R03 __ m	112557659	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: TR121 Weight: 37.124	112557662	[ ] 65 [ ] 135 [X] 270 [ ] 635 [ ] 1080 [ ] 2270	N°: TR286 Weight: 37.048
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	

	YYYY	MM	DD		#	#	#	
LOG-SAMPLES_	2023	06	24	_STATION-	0	4	1	_S-LAB-NET-20

OPERATOR(S) D.D.

		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	112497022	[X] 1/8 300 ml	[ ] 200 mL [ ] 15 mn	112497023	[ ] 1/8	[ ] 200 mL 300 ml [ ] 15 mn
FCAM20 Bottle-250mL LIVE	112557663	[X] 1/8	[ ] 200 mL ~~crossed out~~			
E20 Falcon-15mL + 15mL ETOH FRZ -20°C	112557664	[X] 1/8	[X] 200 mL			
S20-L Falcon-5mL FRZ -20°C + 5 mL NucleoProtect	112557665	[X] 1/8	[ ] 200 mL [ ] 15 mn 350 ml			
MB20 Vial-4mL FRZ -20°C	112557666	[X] 1/8	[X] 200 mL			
FM20 Falcon-50mL FRG +4°C Prealiquoted PFA+GLUTA store at -20°C	112557667	[X] 45 mL		112557668	[X] 45 mL	

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LOG-SAMPLES_S-LAB-NET-20

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F2

	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		

LOG-SAMPLES_ **2023** / **06** / **24** _STATION- **0 4 1** _S-LAB-NET-200

YYYY MM DD | # # #

OPERATOR(S) **D.D.**

	Horizontal WPII-200					
SAMPLE SPLITTING	**COD-END #1**					
PROTOCOLS	**Barcode**	**Fraction of total volume**	**Aliquot Volume (mL)**			
F200 Bottle-250mL + borax/formol RT >10°C	###_Z00 112557669	⬤ 1 (100%)	⬛ 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**	112497024	[ ] 1/8 _250ml_	[ ] 200 mL [ ] 15 mn	112497021	[ ] 1/8 _200 ml_	☒ 200 mL [ ] 15 mn
S200-L Falcon-5mL FRZ -20°C + 5mL Nucleo	112557670	[ ] 1/8 _200 ml_	☒ 200 mL [ ] 15 mn			

		COMMENTS	COMMENTS
SAMPLE SPLITTING			
PROTOCOLS			
F200 Bottle-250mL RT >10°C			
SAMPLE SPLITTING			
PROTOCOLS			
S200 Cryo-5mL LN2 #1			
S200-L Falcon-5mL FRZ -20°C			

LOG-SAMPLES_	YYYY	MM	DD	_STATION-	#	#	#	_S-LAB-NET-680
	2023	06	24		0	4	1	

OPERATOR(S): D.D.

Régent 680

SAMPLE SPLITTING	NET TOW #1			NET TOW #2		
	Total volume [ ] 1600 mL			**Total volume** [ ] 1600 mL		
PROTOCOLS	**Barcode**	**Fraction of total volume**	**Bottle volume (mL)**	**Barcode**	**Fraction of total volume**	**Aliquot Volume (mL)**
F680 Bottle-250mL RT >10°C + Borax/Formol	112557671	[ ] 50 % [X] 100 %	● 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				112557672	[ ] 50 % [ ] 100 % 250 ml	[ ] 200 mL [ ] 400 mL [ ] 600 mL [ ] 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		