



Tara_STATION_PLAN_UTC YYYY MM DD HH MM

Start:	2010	04	06	08	50
End:	2010	04	06	13	28

CHIEF SCIENTIST STATION LAT DDD MM.MMM LON DDD MM.MMM

XD2M	43	North	004	39,590	East	073	29,130
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00:15

UTC TIME	FWD STARBOARD	AFT A-FRAME	DEPTH	AFT CRANE	DEPTH
08:30		Sondage			
08:45		CAST_ROSETTE	50		
09:00		CAST_ROSETTE			
09:15		WPII_50µm_dz	50		
09:30		WPII_200µm_dz	50		
09:45		REGENT_680µm_dz	50		
10:00	PUMP_SRF	DOUBLE_20µm_SRF	SRF		
10:15	PUMP_SRF	DOUBLE_20µm_SRF			
10:30	PUMP_SRF	DOUBLE_20µm_SRF			
10:45	PUMP_SRF				
11:00	PUMP_SRF				
11:15	PUMP_SRF				
11:30	PUMP_SRF				
11:45	PUMP_SRF				
12:00	PUMP_SRF				
12:15	PUMP_SRF				
12:30					
12:45					
13:00					
13:15		BONGO_180µm_SRF	SRF		
13:30	DINNER	BONGO_300µm_dz	50		
13:45	DINNER				
14:00	DINNER				
14:15	DINNER				
14:30					
14:45					
15:00					
15:15					
15:30					
15:45					
16:00					
16:15					



Tara_EVENT_CAST.UTC YYYY MM DD HH MM _01

Start	2010	04	05	08	50
End	2010	04	05	09	06

STATION_ LAT DDD MM.MMM LON DDD MM.MMM _CAST# _DAY / NIGHT

43	(V) N	004	39.582	(V) E	073	29.128		Day
	() S	004	39.594	() W	073	29.130		

INVESTIGATORS DEPTH_Intended (m) DEPTH_Bottom (m) CABLE_Length (m)

	50	53	50
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SECCHI_Depth (m): 15.5	CAST_Type : () Rosette () Niskin line () Other
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BOTTLE # DEPTH_Intended	COMMENTS SRF= TopML= TopDCM= BotML= DCM= BotDCM=	→ WRAPPING ←	NORMAL		NORMAL
		HPLC (2000 mL) LN ₂	Hg (80 mL) -20°C		NUTRIENTS (100 mL) -20°C
1 50 m	SAL : T°C : CTD_z :		800 HG B1	800	
4 35 m	SAL : T°C : CTD_z :		HG B2		
6 25 m	SAL : T°C : CTD_z :		HG B3		
8 15 m	SAL : T°C : CTD_z :		HG B4		
10 5 m	SAL 34.47 T°C 30.01 CTD_z : 2.5 m		HG B5		
6 / m	SAL : T°C : CTD_z :	HP B6	HG B6		NU B6
7 / m	SAL : T°C : CTD_z :	HP B7	HG B7		NU B7
8 / m	SAL : T°C : CTD_z :	HP B8	HG B8		NU B8
9 / m	SAL : T°C : CTD_z :	HP B9	HG B9		NU B9
10 / m	SAL : T°C : CTD_z :	HP B10	HG B10		NU B10



Tara_EVENT_CAST_UTC YYYY MM DD HH MM _02

Start	2010	04	05	08	50
End	2010	04	05	09	06

CAST_Pressure_Max (m) CAST_Duration (HHMM) UVP5_Light Test (value)

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DATA (Y/N): () CTD () DO () FLRTD () PAR ()
 () BBRTD () Cstar () FLCDRTD () ISUS () UVP5

INSTRUMENT FILENAMES (YYYYMMDDHHMM) VOLTAGE UPLD TIME BKUP (Y/N)

CTD	Tara_sbe _UTC	-		
ISUS	Tara_isus UTC	-		
UVP5	Tara_uvp5 UTC	-		

NORMAL STICKERS

CARBONATE - (3 x 500 mL) - 100 µL HgCl - RT

SURF BOTTLE # : 16		DEPTH (metres) : 0		DEEP BOTTLE # :		DEPTH (metres) :	
FLASK# : G-007	FLASK# : G-008	FLASK# : G-009	FLASK# : G-	FLASK# : G-	FLASK# : G-	FLASK# : G-	FLASK# : G-
P100000465	P100000464	P100000463	CA 400m	CA 400m	CA 400m	CA 400m	CA 400m

NORMAL STICKERS

FLOWCAM (mL) RT	OMPhyto-L (250 mL) Lugol (5mL) +4°C	OMPhyto-F (250 mL) Formol (25mL) +4°C	CULT-PLAIN (50 mL) Incubator	CULT-K (35 mL) Kmed (15mL) Incubator	CULT-F/2 (35 mL) F/2med (15mL) Incubator
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SURFACE BOTTLE # : DEPTH (metres) :

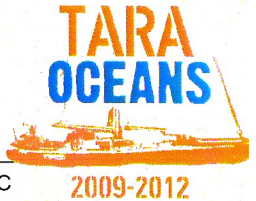
G100000033	G100000017	G100000018	G100000024	G100000026	G100000027
			CP S2	CK S2	CF S2
G100000034	G100000019	G100000020			

DCM BOTTLE # : DEPTH (metres) :

FCAM-F hh:mm D	PL D1	PF D1	CP D1	CK D1	CF D1
FCAM-T hh:mm D	PL D2	PF D2	CP D2	CK D2	CF D2

Comments

Tara-OCEANS NET SAMPLING LOG-SHEET (recto)



OPERATORS :	MP		STATION :	43		
DATE :	<input checked="" type="checkbox"/> UTC <input type="checkbox"/> LOCAL	2010/04/05		<input checked="" type="checkbox"/> UTC <input type="checkbox"/> LOCAL		
LAT / LONG Start :	04°39.596 N	73°29.134 E	TIME Start :	09:14		
LAT / LONG End :	04°39.596 N	73°29.132 E	TIME End :	09:19		
DEPTH Intended :	50	m	CABLE Angle :	/	deg	
CABLE Length :	51	m	CABLE Speed :	0.5	m/s	
GEAR :	<input checked="" type="checkbox"/> Vertical Tow <input type="checkbox"/> Horizontal Tow <input type="checkbox"/> Oblique Tow <input type="checkbox"/>	<input type="checkbox"/> Bongo <input checked="" type="checkbox"/> WP11 <input type="checkbox"/> MultiNet <input type="checkbox"/> Régent <input type="checkbox"/> Neuston	<input type="checkbox"/> 20 µm <input checked="" type="checkbox"/> 50 µm <input type="checkbox"/> 180 µm <input type="checkbox"/> 200 µm <input type="checkbox"/> 300 µm	<input type="checkbox"/> 500 µm <input type="checkbox"/> 680 µm <input type="checkbox"/> µm <input type="checkbox"/> µm <input type="checkbox"/> µm	TOW SPEED :	
FLOW METER :	SN :		START :	20976	END :	210165
DEPTH RECORD :	SN :	4591	FILE NAME :	Tara_NET_sn_YYMMDD_		
MAX RECORDED DEPTH (m) :	52	COMPUTED FILTERED VOLUME (m ³) :	7			

Comments

Tara-OCEANS NET SAMPLING LOG-SHEET (verso)

OPERATORS : **MP**


STATION : **43**

DATE : UTC **2010/04/05**
 LOCAL

UTC
 LOCAL

LAT / LONG Start :
 LAT / LONG End :

TIME Start : **09:14**
 TIME End : **09:19**

	IMAGERY	META GENOMICS (60 mL) RNA-Later	TAXONOMY GENETIC (250 mL) ETOH	TAXONOMY MORPHO (250 mL) FORMOL	PROTIST PROTOCOLS (Comments)
NET 1 (m)	IMG N1 hh:mm N>	MG N1 hh:mm N>	TG N1 hh:mm N>	 P100000475	
NET 2 (m)	IMG N2 hh:mm N>	MG N2 hh:mm N>	TG N2 hh:mm N>	TM N2 hh:mm N>	
NET 3 (m)	IMG N3 hh:mm N>	MG N3 hh:mm N>	TG N3 hh:mm N>	TM N3 hh:mm N>	
NET 4 (m)	IMG N4 hh:mm N>	MG N4 hh:mm N>	TG N4 hh:mm N>	TM N4 hh:mm N>	
NET 5 (m)	IMG N5 hh:mm N>	MG N5 hh:mm N>	TG N5 hh:mm N>	TM N5 hh:mm N>	

COMMENTS :

Tara-OCEANS NET SAMPLING LOG-SHEET (recto)



OPERATORS :	MP		STATION :	43	
DATE :	(<input checked="" type="checkbox"/>) UTC () LOCAL	2010/04/05	(<input checked="" type="checkbox"/>) UTC () LOCAL		
LAT / LONG Start :	04°39.594 N	73°29.134 E	TIME Start :	09:25	
LAT / LONG End :	04°39.596 N	73°29.134 E	TIME End :	09:29	
DEPTH Intended :	50 m		CABLE Angle :	0 deg	
CABLE Length :	51 m		CABLE Speed :	20.5 m/s	
GEAR :	<input checked="" type="checkbox"/> Vertical Tow	() Bongo	() 20 µm	() 500 µm	
	() Horizontal Tow	<input checked="" type="checkbox"/> WP11	() 50 µm	() 680 µm	
	() Oblique Tow	() MultiNet	() 180 µm	() µm	
	()	() Régent	<input checked="" type="checkbox"/> 200 µm	() µm	
TOW SPEED :		() Neuston	() 300 µm	() µm	
FLOW METER :	SN :	START : 11271	END : 11399		
DEPTH RECORD :	SN : 4623	FILE NAME : Tara_NET_sn_YYMMDD_			
MAX RECORDED DEPTH (m) :	54	COMPUTED FILTERED VOLUME (m ³) :	10		

Comments

Tara-OCEANS NET SAMPLING LOG-SHEET (*verso*)

OPERATORS :

STATION :

DATE : UTC
 LOCAL

UTC
 LOCAL

LAT / LONG Start :

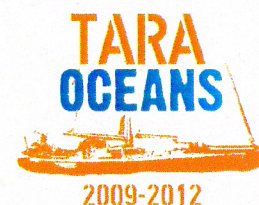
TIME Start :

LAT / LONG End :

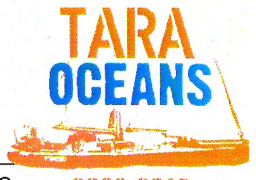
TIME End :

	IMAGERY	META GENOMICS <i>(60 mL) RNA-Later</i>	TAXONOMY GENETIC <i>(250 mL) ETOH</i>	TAXONOMY MORPHO <i>(250 mL) FORMOL</i>	PROTIST PROTOCOLS (Comments)
NET 1 (m)	IMG N1 hh:mm N>	MG N1 hh:mm N>	TG N1 hh:mm N>	TM N1 hh:mm N>	
NET 2 (m)	IMG N2 hh:mm N>	MG N2 hh:mm N>	TG N2 hh:mm N>	TM N2 hh:mm N>	
NET 3 (m)	IMG N3 hh:mm N>	MG N3 hh:mm N>	TG N3 hh:mm N>	TM N3 hh:mm N>	
NET 4 (m)	IMG N4 hh:mm N>	MG N4 hh:mm N>	TG N4 hh:mm N>	TM N4 hh:mm N>	
NET 5 (m)	IMG N5 hh:mm N>	MG N5 hh:mm N>	TG N5 hh:mm N>	TM N5 hh:mm N>	

COMMENTS :



Tara-OCEANS NET SAMPLING LOG-SHEET (recto)



OPERATORS : **MP** STATION : **43**

DATE : UTC **2010/04/05**
 LOCAL

UTC
 LOCAL

LAT / LONG Start : **04°39.596 N 73°29.136 E**
LAT / LONG End : **04°39.596 N 73°29.141 E**

TIME Start : **09:36**
TIME End : **09:40**

DEPTH Intended : **51** m
CABLE Length : **51** m

CABLE Angle : **0** deg
CABLE Speed : **0.5** m/s

- GEAR : Vertical Tow () Bongo () 20 µm () 500 µm
 () Horizontal Tow () WP11 () 50 µm 680 µm
 () Oblique Tow () MultiNet () 180 µm () µm
 () Régent () 200 µm () µm
 TOW SPEED : () Neuston () 300 µm () µm

FLOW METER : SN : START : **53368** END : **53505**

DEPTH RECORD : SN : **4590** FILE NAME : Tara_NET_sn_YYMMDD_

MAX RECORDED DEPTH (m) : **53** COMPUTED FILTERED VOLUME (m³) : **31**

Comments

Tara-OCEANS **NET SAMPLING** LOG-SHEET (*verso*)

OPERATORS : **MP**


STATION : **43**

DATE : UTC **2010/04/05**
 LOCAL

UTC
 LOCAL

LAT / LONG Start :
 LAT / LONG End :

TIME Start : **09:36**
 TIME End : **09:40**

	IMAGERY	META GENOMICS (60 mL) RNA-Later	TAXONOMY GENETIC (250 mL) ETOH	TAXONOMY MORPHO (250 mL) FORMOL	PROTIST PROTOCOLS (Comments)
NET 1 (m)	IMG N1 hh:mm N>	MG N1 hh:mm N>	TG N1 hh:mm N>	 P100000478	
NET 2 (m)	IMG N2 hh:mm N>	MG N2 hh:mm N>	TG N2 hh:mm N>	TM N2 hh:mm N>	
NET 3 (m)	IMG N3 hh:mm N>	MG N3 hh:mm N>	TG N3 hh:mm N>	TM N3 hh:mm N>	
NET 4 (m)	IMG N4 hh:mm N>	MG N4 hh:mm N>	TG N4 hh:mm N>	TM N4 hh:mm N>	
NET 5 (m)	IMG N5 hh:mm N>	MG N5 hh:mm N>	TG N5 hh:mm N>	TM N5 hh:mm N>	

COMMENTS :

Tara-OCEANS NET SAMPLING LOG-SHEET (recto)



OPERATORS : MP STATION : 43

DATE : UTC 2010/04/05 LOCAL UTC 2009-2012 LOCAL

LAT / LONG Start : 04°39.538 N 73°29.137 E TIME Start : 09^h57
LAT / LONG End : 04°39.587 N 73°29.137 E TIME End : 10^h37

DEPTH Intended : Surf m CABLE Angle : - deg
CABLE Length : Surf m CABLE Speed : - m/s

GEAR : Vertical Tow Bongo 20 µm 500 µm
 Horizontal Tow WP11 50 µm 680 µm
 Oblique Tow MultiNet 180 µm µm
 Régent 200 µm µm
TOW SPEED : Neuston 300 µm µm

FLOW METER : SN : START : 04846 END : 04858

DEPTH RECORD : SN : FILE NAME : Tara_NET_sn_YYMMDD_

MAX RECORDED DEPTH (m) : 0 COMPUTED FILTERED VOLUME (m³) : 1

Comments Two successive tows were combined very low towing speed

Tara-OCEANS **NET SAMPLING** LOG-SHEET (*verso*)

OPERATORS : **MP**


STATION : **43**

DATE : UTC LOCAL **2010/04/05**

UTC LOCAL

LAT / LONG Start :
LAT / LONG End :

TIME Start : **09:57**
TIME End : **10:37**

	IMAGERY	META GENOMICS (60 mL) RNA-Later	TAXONOMY GENETIC (250 mL) ETOH	TAXONOMY MORPHO (250 mL) FORMOL	PROTIST PROTOCOLS (Comments)
NET 1 (m)	IMG N1 hh:mm N>	MG N1 hh:mm N>	TG N1 hh:mm N>	 P100000489	
NET 2 (m)	IMG N2 hh:mm N>	MG N2 hh:mm N>	TG N2 hh:mm N>	TM N2 hh:mm N>	
NET 3 (m)	IMG N3 hh:mm N>	MG N3 hh:mm N>	TG N3 hh:mm N>	TM N3 hh:mm N>	
NET 4 (m)	IMG N4 hh:mm N>	MG N4 hh:mm N>	TG N4 hh:mm N>	TM N4 hh:mm N>	
NET 5 (m)	IMG N5 hh:mm N>	MG N5 hh:mm N>	TG N5 hh:mm N>	TM N5 hh:mm N>	

COMMENTS :



Tara_EVENT_PUMP_UTC YYYY MM DD HH MM _01

Start	2010	04	05	10	02
End	2010	04	05	12	29

STATION_	LAT	DDD	MM.MMM	LON	DDD	MM.MMM	_PUMP#	_DAY / NIGHT
43	() N () S	04	39.594	(✓) E () W	073	29.137		Day

OPERATORS	DEPTH_Intended (m)	CABLE_Length (m)	_Angle (deg)	_Speed (m/s)
§	7m	7m	/	/

PUMPING_Depth_Max (m)	PUMPING_Duration (HHMM)

Depth_SRF (m)	Depth_TopDCM (m)	Depth_DCM (m)	Depth_BotDCM (m)	Depth_BotML (m)

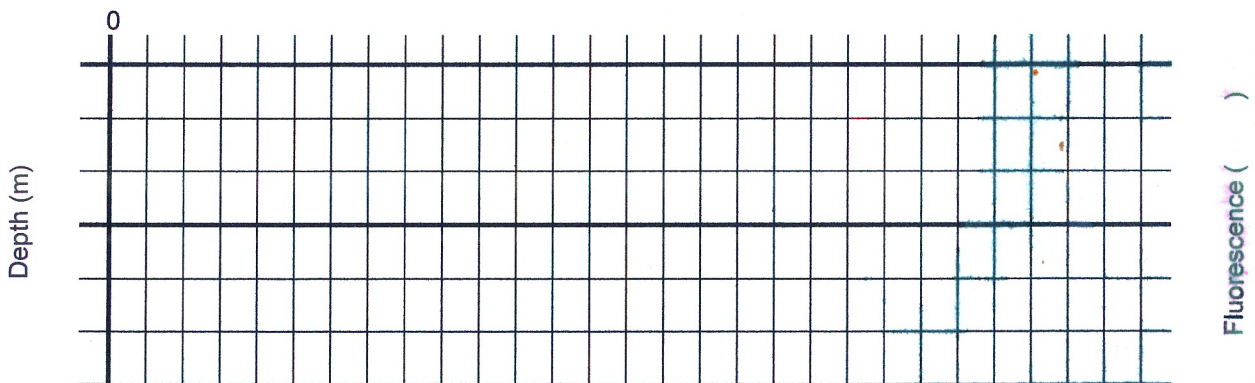
INSTRUMENT	FILENAMES (YYYYMMDDHHMM)	VOLTAGE	UPLD TIME	BKUP (Y/N)
ECOT	Tara_ecot_raw_UTC	-		
ECOT	Tara_ecot_eng_UTC	-		

Comments

OPERATION	START TIME	END TIME
Rincing Pump:	10:02	10:08
Filling 200L (BGV):	10:15	10:27
Flow through GPSS (PROT):	10:30	
Filling 200L (PROT):	10:38	10:57
Pause:	11:08	11:12
Pause:	12:07	12:15
Filling 200L (BGV):	12:07	12:15
Pause:		
Pause:		
Flow through GPSS (PROT):		12:29

@ 20 Hz

TIME COURSE (min)



2000 10 10 10 10
10 10 10 10 10

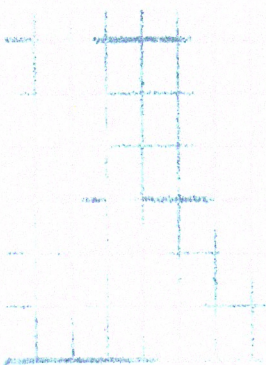
1000 1000 1000 1000 1000

1000

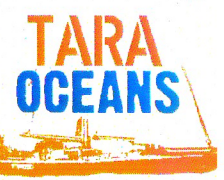
1000

1000

1000



1000



Tara-OCEANS NET SAMPLING LOG-SHEET (recto)

OPERATORS : STATION :

DATE : UTC LOCAL UTC LOCAL

LAT / LONG Start : TIME Start :

LAT / LONG End : TIME End :

DEPTH Intended : m CABLE Angle : deg

CABLE Length : m CABLE Speed : m/s

GEAR : Vertical Tow Bongo 20 µm 500 µm
 Horizontal Tow WP11 50 µm 680 µm
 Oblique Tow MultiNet 180 µm µm
 Régent 200 µm µm

TOW SPEED : Neuston 300 µm µm

FLOW METER : SN : START : END :

DEPTH RECORD : SN : FILE NAME : Tara_NET_sn_YYMMDD_

MAX RECORDED DEPTH (m) : COMPUTED FILTERED VOLUME (m³) :

Comments

Tara-OCEANS NET SAMPLING LOG-SHEET (*verso*)

OPERATORS :

STATION :

DATE : UTC
 LOCAL

UTC
 LOCAL

LAT / LONG Start :

TIME Start :

LAT / LONG End :

TIME End :

	IMAGERY	META GENOMICS (60 mL) RNA-Later	TAXONOMY GENETIC (250 mL) ETOH	TAXONOMY MORPHO (250 mL) FORMOL	PROTIST PROTOCOLS (Comments)
NET 1 (m)	IMG N1 hh:mm N>	MG N1 hh:mm N>	TG N1 hh:mm N>	TM N1 hh:mm N>	
NET 2 (m)	IMG N2 hh:mm N>	MG N2 hh:mm N>	TG N2 hh:mm N>	TM N2 hh:mm N>	
NET 3 (m)	IMG N3 hh:mm N>	MG N3 hh:mm N>	TG N3 hh:mm N>	TM N3 hh:mm N>	
NET 4 (m)	IMG N4 hh:mm N>	MG N4 hh:mm N>	TG N4 hh:mm N>	TM N4 hh:mm N>	
NET 5 (m)	IMG N5 hh:mm N>	MG N5 hh:mm N>	TG N5 hh:mm N>	TM N5 hh:mm N>	

COMMENTS :

Tara-OCEANS NET SAMPLING LOG-SHEET (recto)



OPERATORS : **MP**

STATION : **43**

DATE : UTC **2010/04/05**
 LOCAL

UTC
 LOCAL

2009-2012

LAT / LONG Start : **04°39.657 N 73°29.507 E**

TIME Start : **13:23**

LAT / LONG End : **4°39.673 N 73°29.566 E**

TIME End : **13:25**

DEPTH Intended : **50** m

CABLE Angle : **15°** deg

CABLE Length : **48** m

CABLE Speed : **0.5** m/s

- GEAR : Vertical Tow Bongo () 20 µm () 500 µm
 () Horizontal Tow () WP11 () 50 µm () 680 µm
 () Oblique Tow () MultiNet () 180 µm () µm
 () () Régent () 200 µm () µm
 TOW SPEED : () Neuston 300 µm () µm

FLOW METER : SN : START : **76592** END : **76988**

DEPTH RECORD : SN : **4629** FILE NAME : Tara_NET_sn_YYMMDD_

MAX RECORDED DEPTH (m) : **41** COMPUTED FILTERED VOLUME (m³) : **31**

Comments

Tara-OCEANS NET SAMPLING LOG-SHEET (verso)

OPERATORS : **MP**




STATION : **43**

DATE : UTC LOCAL **2010/06/05**

UTC LOCAL

LAT / LONG Start :
 LAT / LONG End :

TIME Start : **13:23**
 TIME End : **13:28**

	IMAGERY	META GENOMICS (60 mL) RNA-Later	TAXONOMY GENETIC (250 mL) ETOH	TAXONOMY MORPHO (250 mL) FORMOL	PROTIST PROTOCOLS (Comments)
NET 1 (m)	IMG N1 hh:mm N>	MG N1 hh:mm N>	TG N1 hh:mm N>	 P100000472	
NET 2 (m)	IMG N2 hh:mm N>	 K100000046	 K100000015	TM N2 hh:mm N>	
NET 3 (m)	IMG N3 hh:mm N>	MG N3 hh:mm N>	TG N3 hh:mm N>	TM N3 hh:mm N>	
NET 4 (m)	IMG N4 hh:mm N>	MG N4 hh:mm N>	TG N4 hh:mm N>	TM N4 hh:mm N>	
NET 5 (m)	IMG N5 hh:mm N>	MG N5 hh:mm N>	TG N5 hh:mm N>	TM N5 hh:mm N>	

COMMENTS :



Tara_WETLAB_PROT.UTC YYYY MM DD HH MM_07 INVESTIGATORS DIMIER C. STATION 43

2010 04 05 08 50

PROTOCOL Name	VOL mL	CONT mL	P1a	P1b					STORAGE (°C) Chemical
NORMAL STICKERS									
FISH-D W>0.8	90	Petri	FD Short only! G100000036	FD Short only! G100000037					(-20C) Before filtration 10 mL Neutral Formol (3.7% final concentration) in 250 mL jar, incubated for 24h at +4C
SYRACO W	500	Petri	SY	SY					(RT) Hot Plate Dried
WRAPPING STICKERS									
SCG W	4	Cryo 5	SC	SC					(LN2) 0.6 mL Glycine betaine (48%)
FCM W	1.5	Cryo 2	FC	FC	G000000188	G000000189	G000000190		(LN2) 150 µL Paraformaldehyde (10%) + 15µL Glutaraldehyde (25%)
dDNA W<0.22		Cryo 5	DD						(LN2) CTAB

Case	Year	Country	Industry	Company	Revenue	Profit	Market Share	Employees	Assets
1	2009	USA	Technology	Apple	37.2	2.3	1.0	130	30.0
2	2009	USA	Technology	Microsoft	48.5	4.3	2.0	140	40.0
3	2009	USA	Technology	Google	23.9	1.9	1.0	100	20.0
4	2009	USA	Technology	American Express	18.0	1.3	1.0	100	15.0
5	2009	USA	Technology	Facebook	10.0	0.8	1.0	50	10.0
6	2009	USA	Technology	LinkedIn	3.0	0.2	1.0	20	3.0
7	2009	USA	Technology	Twitter	1.0	0.1	1.0	10	1.0
8	2009	USA	Technology	Dropbox	0.5	0.05	1.0	5	0.5
9	2009	USA	Technology	Slack	0.2	0.02	1.0	2	0.2
10	2009	USA	Technology	Zoom	0.1	0.01	1.0	1	0.1

Source: Statista (2010), Statista.com. Note: Revenue is in billions of USD. Profit is in billions of USD. Market Share is in percent. Employees are in thousands. Assets are in billions of USD.



Tara_WETLAB_PROT.UTC YYYY MM DD HH MM_08 INVESTIGATORS STATION
 2010 04 05 08 50 Dimer c. 43

PROTOCOL Name	VOL mL	CONT mL	Pa	P1b					STORAGE (T°C) Chemical
NORMAL STICKERS									
TEM W0.8-5	50	Tube 50	T 0.8	T 0.8					(+4C) 2 mL Glutaraldehyde (25%) (1% final concentration)
FISH-D W0.8-5	90	Petri	FD 0.8	FD 0.8					(-20C) Before filtration 10 mL Neutral Formol (3,7% final concentration) in 250 mL jar, incubated for 24h at +4C
SEM W0.8-5	500	Petri	S 0.8	S 0.8					(RT) Dry vacuum

COMMENTS:

DATE

TIME

TEMP

WIND

MOON

SEA

WIND

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TEMP

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Tara_WETLAB_PROT.UTC YYYY MM DD HH MM_09 INVESTIGATORS STATION

2010 04 05 08 50 Dumier C. 43

PROTOCOL Name	VOL mL	CONT mL	PLa	PLb					STORAGE (T°C) Chemical
HTM W5-20	45	Tube 50					H 5		(+4C) 5 mL Neutral Formal (3,7% final concentration); incubated 3h; liquid discarded; replaced with 40mL PBS
OM-F W5-20	45	Tube 50					MF 5	MF 5	(+4C) 5 mL Neutral Formal (3,7% final concentration)
OM-L W5-20	50	DBot 60					ML 5	ML 5	(+4C) 1 mL Lugol's solution (2% final concentration)
TEM W5-20	50	Tube 50					T 5	T 5	(+4C) 2 mL Glutaraldehyde (25%) (1% final concentration)
FISH-D W5-20	45	Petri 5					FD 5	FD 5	(-20C) Before filtration 5 mL Neutral Formal (3,7% final concentration) in a 50 mL tube, incubated for 24h at +4C
SEM W5-20	50	Petri 5					S 5	S 5	(RT) Dry vacuum

NORMAL STICKERS

5301003211100

Year	Month	Day	Time	Location	Activity	Remarks
2019	12	20	10:00	...	...	...
2019	12	21	10:00	...	...	...
2019	12	22	10:00	...	...	...
2019	12	23	10:00	...	...	...
2019	12	24	10:00	...	...	...
2019	12	25	10:00	...	...	...
2019	12	26	10:00	...	...	...
2019	12	27	10:00
2019	12	28	10:00
2019	12	29	10:00
2019	12	30	10:00
2019	12	31	10:00

2019-12-31

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Tara_WETLAB_PROT.UTC YYYY MM DD HH MM _10 INVESTIGATORS DIMIER C STATION 43

2010 04 05 08 50

PROTOCOL Name	VOL mL	CONT mL		PLA	PLB					STORAGE (T°C) Chemical
SCG W5-20	4	Cryo 5	SC 5	G000000193	G000000194		SC 5	SC 5		(LN2) 0.6 mL Glycine betaine (48%)
WRAPPING STICKERS										

COMMENTS:

no

10/10

20 10 0/10

1/1 1/1



Tara_WETLAB_PROT.UTC YYYY MM DD HH MM _11 INVESTIGATORS Dumier C. STATION 43

2010 04 05 08 50

PROTOCOL Name	VOL mL	CONT mL	PIa	PIb					STORAGE (T°C) Chemical
NORMAL STICKERS									
HTM N20-180	45	Tube 50	H 20 G1000000055	H 20 G1000000001					(+4C) 5 mL Neutral Formol (3,7% final concentration); incubated 3h; liquid discarded; replaced with 40mL PBS
OM-F N20-180	45	Tube 50	MF 20 G1000000056	MF 20 G1000000001					(+4C) 5 mL Neutral Formol (3,7% final concentration)
OM-L N20-180	50	DBot 60	ML 20 G1000000002	ML 20 G1000000003					(+4C) 1 mL Lugol's solution (2% final concentration)
FISH-W N20-180	45	Tube 50	FW 20 G1000000004	FW 20 G1000000005					(-20C) 5 mL Neutral Formol (3,7% final concentration) in 50 mL tube; incubated for 3h; liquid discarded; replaced with 30mL PBS
ETOH N20-180	250	Tube 50	E 20 G1000000006	E 20 G1000000007					(-20C) 40 mL ETOH; replaced by 40 mL ETOH, 24h later
FCAM N20-180	50	Tube 50	FCAM 20 G1000000008	FCAM 20 G1000000009					(RT) Give to Optical Engineer
LIVE N20-180	50	Tube 50	LIVE 20 G1000000010	LIVE 20 G1000000010					(RT) Give to Optical Engineer

Year	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	
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Handwritten numbers or symbols in the middle of the page.



Tara_WETLAB_PROT.UTC YYYY MM DD HH MM_12 INVESTIGATORS STATION

2010 04 05 08 50 Dimer C. 43

PROTOCOL Name	VOL mL	CONT mL	Plc	Plab					STORAGE (T°C) Chemical
OM-F N180-2000	50	CBot 60				MF 180	MF 180		(+4C) 2 mL Neutral Formal (3,7% final concentration) S A
OM-L N180-2000	50	DBot 60				ML 180	ML 180		(+4C) 1 mL Lugol's solution (0,2% final concentration)
ETOH N180-2000	250	Tube 50				E 180	E 180		(-20C) 40 mL ETOH; replaced by 40 mL ETOH, 24h later
FISH-W N180-2000	45	Tube 50				FW 180	FW 180		(-20C) 5 mL Neutral Formal (3,7% final concentration) in 50 mL tube; incubated for 3h; liquid discarded; replaced with 30mL PBS
LIVE N180-2000	50	Tube 50				LIVE 180			(RT) Give to Optical Engineer

NORMAL STICKERS

COMMENTS:

job:1530010

DATE	TIME	LOCATION	ACTIVITY	STATUS	REMARKS
2023-09-08	08:00	Site A	Excavation	Completed	Excavation work completed at Site A.
2023-09-08	09:00	Site B	Foundation	In Progress	Foundation work in progress at Site B.
2023-09-08	10:00	Site C	Structural	Completed	Structural work completed at Site C.
2023-09-08	11:00	Site D	Roofing	In Progress	Roofing work in progress at Site D.
2023-09-08	12:00	Site E	Interior	Completed	Interior work completed at Site E.
2023-09-08	13:00	Site F	Landscaping	In Progress	Landscaping work in progress at Site F.
2023-09-08	14:00	Site G	Site Preparation	Completed	Site preparation work completed at Site G.
2023-09-08	15:00	Site H	Foundation	In Progress	Foundation work in progress at Site H.
2023-09-08	16:00	Site I	Structural	Completed	Structural work completed at Site I.
2023-09-08	17:00	Site J	Roofing	In Progress	Roofing work in progress at Site J.
2023-09-08	18:00	Site K	Interior	Completed	Interior work completed at Site K.
2023-09-08	19:00	Site L	Landscaping	In Progress	Landscaping work in progress at Site L.
2023-09-08	20:00	Site M	Site Preparation	Completed	Site preparation work completed at Site M.

2023-09-08



Tara_WETLAB_GENO.UTC YYYY MM DD HH MM_03 INVESTIGATORS STATION

2010 04 05 08 50 Dimier C. 43

PROTOCOL Name	VOL mL	CONT mL	PIa	PIb					STORAGE (T°C) Chemical
DNA W0.8-5	100 000	Cryo 5	D 0.8				D 0.8		(-20C) 4 mL RNA Later
DNA W5-20	1000	Cryo 5	D 5				D 5		(-20C) 4 mL RNA Later
DNA W0.8-20	100 000	Cryo 5	D <20 Short only!						(-20C) 4 mL RNA Later
DNA N20-180	1000	Cryo 5	D 20				D 20		(-20C) 4 mL RNA Later
DNA N180-2000	1000	Cryo 5	D 180				D 180		(-20C) 4 mL RNA Later

WRAPPING STICKERS

Comments: DS → filtered onto 47 mm 3µm PC filters

090415300918

2nd of 1st row in 1st column

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Tara_WETLAB_GENO.UTC YYYY MM DD HH MM_04 INVESTIGATORS STATION

2010 04 05 08 50 Dimiel C. G3

PROTOCOL Name	VOL mL	CONT mL	PLA	PLb					STORAGE (T°C) Chemical
RNA W0.8-5	100 000	Cryo 5	R 0.8	R 0.8					(-20C) 4 mL RNA Later
RNA W5-20	1000	Cryo 5	R 5	R 5					(-20C) 4 mL RNA Later
RNA W0.8-20	100 000	Cryo 5	R <20 Short only!						(-20C) 4 mL RNA Later
RNA N20-180	1000	Cryo 5	R 20	R 20					(-20C) 4 mL RNA Later
RNA N180-2000	1000	Cryo 5	R 180	R 180					(-20C) 4 mL RNA Later

WRAPPING STICKERS

Comments: RS → filled onto 47 min 3 per PC folder.

1000

2000

1000

1000

Sub 1000



Tara_WETLAB_BACT.UTC YYYY MM DD HH MM_05 INVESTIGATORS STATION

2010	04	05	08	50	Anne Thompson	43
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PROTOCOL Name	VOL mL	CONT mL	PI-1	PI-2		P2		STORAGE (T°C) Chemical
NORMAL STICKERS								
DNA W 1.6-20	100 000	Tube 50	 B100000137	 B100000138		D 1.6		(-20C) 10 mL RNA Later
DNA W 0.22-1.6	100 000	Tube 50	 B100000139	 B100000140		D 0.22		(-20C) 10 mL RNA Later
RNA W 1.6-20	10 000	Tube 50	 B100000141 9L & 1.6	 B100000142 9L		R 1.6		(-20C) 10 mL RNA Later
RNA W 0.22-1.6	10 000	Tube 50	 B100000143 9L	 B100000144 9L		R 0.22		(-20C) 10 mL RNA Later

Comments:

Comments

AMR
FSS.0 W

AMR
OS-21 W

OS-AMG
AM-SS.0 W

OS-21 W
AMR

B-110

signal





Tara_WETLAB_BACT.UTC YYYY MM DD HH MM_06 INVESTIGATORS STATION

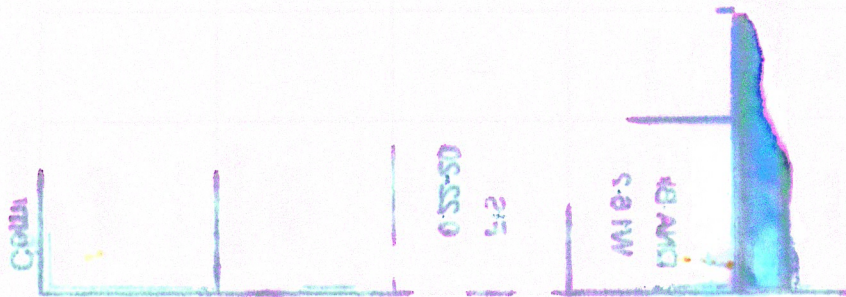
2010 04 05 08 50 ANNE THOMPSON 43

PROTOCOL Name	VOL mL	CONT mL	PI-1							STORAGE (T°C) Chemical
DNA-Bkup W1.6-20	100 000	Tube 50	DB							(-20C) 10 mL RNA Later
FISH W0.22-20	10	Petri 3F/P	FI	 3Filters/Petri						(-20C) 9 mL PFA (10%) in a 250 mL bottle for 6x10 mL replicates (1.3% final concentration), incubate 24h

NORMAL STICKERS

Comments:

1st TOUCHHEEL



0.55-0.50

1/2

Miles

DURATION



Tara_WETLAB_BACT.UTC YYY YYY MM DD HH MM_07 INVESTIGATORS STATION

2010 04 05 08 50 ANNE THOMPSON 43

PROTOCOL Name	VOL mL	CONT mL	PI-1	PI-2	PI-3	P2-1	P2-2	P2-3	STORAGE (T°C) Chemical
FCM W <200	1	Cryo 2				FC	FC	FC	(LN2) 5 µL fresh (-20C) Glutaraldehyde (25%) (0.125% final concentration)
						FC	FC	FC	
CULT W <200	1	Cryo 2				C	C	C	(LN2) 70 µL DMSO (7% final concentration)
						C			

WRAPPING STICKERS

Comments:

0





Tara_WETLAB_BACT_UTC STATION INVESTIGATORS MM DD HH MM_08

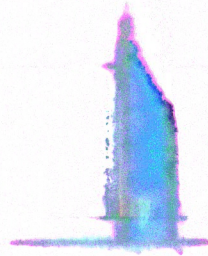
2010 04 05 08 50

43

43

PROTOCOL Name	VOL mL	CONT mL	STORAGE (T°C) Chemical
NORMAL STICKERS / WRAPPING STICKERS			

Comments:



Tara_WETLAB_GIRUS_UTC YYYY MM DD HH MM_03 INVESTIGATORS STATION

2010 04 05 08 50 Anne Thompson 43

PROTOCOL Name	VOL mL	CONT mL						STORAGE (T°C) Chemical
NORMAL STICKERS								
DNA-Dry W1.6-20	105000	Tube 50	DD 1.6	Y1000000072	Y1000000073	DD 1.6 -Split1	DD 1.6 -Split2	(-20C)
DNA-Dry W0.22-1.6	100000	Tube 50	DD 0.22	Y1000000074	Y1000000075	DD 0.22 -Split1	DD 0.22 -Split2	(-20C)
DNA-Dry W0.1-0.22	20000	Tube 50	DD 0.1	Y1000000076 10L, IHR				(-20C)
DNA-Wet W0.22-1.6	100000	Tube 50	DW	Y1000000077	Y1000000078			(+4C) 50 mL 1.6 µm filtered Seawater
CULT-Dry W0.22-1.6	1 000	Petri 1F/P	CD	Y1000000079	Y1000000080	CD	CD	(+4C) Dry





Tara_WETLAB_GIRUS.UTC YYYY MM DD HH MM_04 INVESTIGATORS STATION

2010 04 05 08 50 ANNE THOMPSON 43

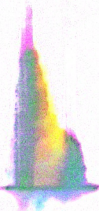
PROTOCOL Name	VOL mL	CONT mL	PI-1	PI-2	WRAPPING STICKERS	CW	CW	CW	STORAGE (T°C) Chemical
CULT-Wet W0.1-1.6	1 000	Cryo 5							(+4C) 50 mL 1.6 µm filtered Seawater

Comments:



11/16

11/16





Tara_WETLAB_VIRUS_UTC YYYY MM DD HH MM_03 INVESTIGATORS STATION

2010 04 05 08 50 ANNE THOMPSON 43

PROTOCOL Name	VOL mL	CONT mL	PI-1	PI-2	PI-3	P2-1	P2-2	P2-3	STORAGE (°C) Chemical
NORMAL STICKERS									
CULT W<0.22	50	Tube 50	C	 R100000165	 R100000166	C	C	(+4C)	
DNA-Fe W<0.22	20000	Tube 50	D	 R100000168	 R100000169	D	D	(+4C)	
qPCR W<0.22	50	Tube 50	Q	 R100000171	 R100000173	Q	Q	(+4C)	
TEM W<0.22	50	Tube 50	T	 R100000175	 R100000176	T	T	(+4C) 2.7 mL Neutral Formol (37%), 0.02 um filtered (2% final concentration)	
FISH W0.22-20	10	Petri 3F/P	FI	 R100000177 3Filters/Petri		T D1 3Filters/Petri		(-20C) 9 mL PFA (10%) in a 250 mL bottle for 6x10 mL replicates (1.3% final concentration), incubate 24h	

4. ABC

2. 5

9





Tara_WETLAB_VIRUS_UTC YYYY MM DD HH MM_04 INVESTIGATORS STATION

2010 04 05 08 50 ADAM THOMPSON 43

PROTOCOL Name	VOL mL	CONT mL		P1-1	P1-2	P1-3	P2-1	P2-2	P2-3	STORAGE (°C) Chemical
SYBR W<0.22	15	Cryo 15	S				S	S		(+4C) 810 µL Neutral Formol (37%), 0.02 filtered (2% final concentration)
FCM-G W	1	Cryo 2	FG				FG	FG	FG	(LN2) 5 µL fresh (-20C) Glutaraldehyde (25%) (0.125% final concentration)
FCM-D W<200	1	Cryo 2	FD				FD	FD	FD	(LN2) 70 µL DMSO (7% final concentration)

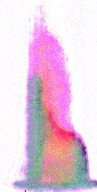
WRAPPING STICKERS

Comments:



10/1/20

10/1/20





Tara_DRYLAB_FCAM.UTC YYYY MM DD HH MM_01 INVESTIGATORS STATION
 2010 04 05 11 00 CEDRIC GUIGAND 043

PROTOCOL Barcode	EVENT TYPE EVENT TIME DEPTH (m)	TIME START (UTC hh :mm)	RUN DURATION minutes	PARTICLES (nb counted)	PARTICLES SIZE (micrometre)	COMMENTS FILENAME
 G1000000033	BOTTLE# TIME= 08:50 DEPTH= SURF	13:27	15:01	713	MEAN= 46.27 MIN= 12.03 MAX= 219.83	095-132742
 G1000000034	BOTTLE# TIME= 08:50 DEPTH= SURF	11:00	12:20		MEAN= 17:07 MIN= 12 MAX= 105.15	095-105949
FCAM-F D1	BOTTLE# TIME= DEPTH=				MEAN= MIN= MAX=	
FCAM-T D2	BOTTLE# TIME= DEPTH=				MEAN= MIN= MAX=	
FCAM-F N>20	DOUBLE 20µm TIME= DEPTH=				MEAN= MIN= MAX=	
 G1000000009	DOUBLE 20µm TIME= 09:57 DEPTH= SURF	12:32	12:45	9935	MEAN= 32.6 MIN= 12 MAX= 219.85	095-123233

NORMAL STICKERS

Quo

Ans

Ans



DATE: _____ CLASS: _____

STAGE NAME