

MedFlux



Cruises - Seward Johnson II

May 7-14, 2003

Participants	Cruise Plan	Sample Log	Photos
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May SJII Cruise Plan

	07-May-03	08-May-03	09-May-03
01:00			
02:00		CTD4-Enzyme cast	CTD6-Enzyme cast
03:00		8-10 depths to 2000m	8-10 depths to 2000m
04:00			
05:00		Recover Nettrap1; redeploy NT2	
06:00			
07:00		Hunted for deep mooring	
08:00	Left Monaco		
09:00	Ship Briefing		
10:00			CTD7-Enzyme cast - 200m
11:00		CTD5-Enzyme cast - 200m	Mooring operation
12:00	Arrive DYFAMED site		
13:00	Deploy NetTrap1 - 200m	Deploy Gust drifter - 200m	
14:00			Recovered 200m trap/CM
15:00	CTD1 - for Pb/Po		
16:00	Pump Cast 1 - Shallow	Located Mooring	
17:00		Science Meeting	
18:00		Triangulated on Mooring	
19:00			

20:00			
21:00	Pump Cast 2 - Shallow	Pump Cast 2 (200m-Bottom)	
22:00			Zooplankton Tow 1
23:00			
00:00	CTD3 - for Pb/Po		

May SJII Cruise Plan

Time	10-May-03	11-May-03	12-May-03
01:00			CTD16 - Miami
02:00	CTD8 - Enzyme cast	CTD11 - Enzyme cast	CTD17 - Enzyme cast
03:00	8-10 depths to 2000m	8-10 depths to 2000m	8-10 depths to 2000m
04:00	Meter wheel problem		
05:00	No multicore		
06:00			
07:00	Picked up Gust drifter	CTD12 - Monique - 200m	Picked up 4 mooring floats
08:00			Return to Monaco
09:00			to pick up line/releases
10:00	CTD9 - Enzyme cast - 1000m	CTD11 - Enzyme cast - 200m	
11:00	Drag	Triangulate	
12:00			
13:00		CTD14 - Monique - 200m	Science Meeting
14:00		Drag	
15:00			
16:00	Multicore failed		
17:00	Science Meeting		
18:00	Barbeque		
19:00	Recover NT2/Redeploy NT3		
20:00			
21:00			
22:00	CTD10 - 200m Zhanfei	Short CTD-15 & Pump Cast	CTD18 - rosette for Pb/Po
23:00			Pump cast 6 to 300m
00:00	Pump Cast 4 - 200m		

May SJII Cruise Plan

Time	13-May-03	14-May-03	
01:00	CTD19 - rosette for Pb/Po	Recover NetTrap 3	
02:00	Zooplankton Tow 2		
03:00	CTD20 - rosette for Pb/Po		

04:00			
05:00		Departed for Nice	
06:00			
07:00			
08:00	CTD21 for 200m water		
09:00	Surprise!		
10:00	Recovered 800m Trap/CM		
11:00	CTD22 - Enzyme cast		
12:00	Tested release at 2000m		
13:00	Respool line for mooring		
14:00	Redeploy mooring		
15:00			
16:00			
17:00			
18:00			
19:00			
20:00			
21:00			
22:00			
23:00			
00:00			

Sample Log

CTD Log				
1445-050703CTD-1 0303001	2, 20, 50, 75, 100, 150 m	Pere/Juan Carlos	Po/Pb/Ra/TOC/TON/POC/PON/Mass	43°26.65'N 7°54.94'E
1902-050703CTD-2 0303002	1500, 1800, 2000, 2439 m(Bottom + 5)	Pere/Juan Carlos		43°25.76'N 7°56.59'E
0017-050803CTD-3 0303003	200, 400, 800, 1200 m	Pere/Juan Carlos		43°25.03'N 7°56.39'E
0204-050803CTD-4 0303004	3, 45, 200, 500, 1000, 1400, 1800, 2000 m	Madeleine	enzyme activity, BSi, FISH, PCR, nutrients, ELF	43°25.62'N 7°55.49'E
1108-050803CTD-5 0303005/0303006	3, 55, 200 m	Madeleine	enzyme activity	43°26.13'N 7°52.75'E
0209-050903CTD-6 0303007	3, 10, CM, 200, 500, 1000, 1400, 2000 m	Madeleine	enzyme activity, BSi, PcA	43°25.29'N 7°54.68'E
1002-050903CTD-7 0303008	3, CM, 200 m	Madeleine	enzyme activity	43°24.66'N 7°54.07'E
0215-051003CTD-8 0303009/0303010	3, 25, CM, 68, 100, 200, 500, 750, 1000, 1400, 2000 m	Madeleine	enzyme activity, BSi, FISH, PCR, nutrients, ELF, Bact biomass	43°25.24'N 7°52.31'E
1013-051003CTD-9 0303011	3, 25, CM, BP, 100, 200, 500, 750, 1000 m	Madeleine	enzyme activity, bact biomass, nutrients, ELF	43°25.3'N 7°51.1'E
2238-051003CTD-10	2, 20, 45, 75, 100, 150, 200m	Zhanfei	Particle experiment; viruses (Gordon)	43°25.30'N

0303012				7°53.52'E
0158-051103CTD-11 0303013	3, 25, CM, BP, 100, 200, 500, 750, 1000 m	Madeleine	enzyme activity	43°25.91'N 7°52.39'E
0700-051103CTD-12 0303014	3, 25, CM, BP, 100, 200 m	Madeleine	enzyme activity	43°24.41'N 7°51.08'E
1010-051103CTD-13 0303015	3, 25, CM, 62, 100, 200, 500, 750, 1000 m	Madeleine	enzyme activity	43°24.30'N 7°52.40'E
1302-051103CTD-14 0303016	3, 25, CM, BP, 100, 200 m	Madeleine	enzyme activity	43°25.84'N 7°53.30'E
2152-051103CTD-15 0303017	No water	Pere	Profile only	43°25.64'N 7°58.16'E
0107-051203CTD-16		Miami	O2 calibration	43°24.87'N 7°53.32'E
0216-051203CTD-17 0303018	3, 25, CM, BP, 100, 200, 500, 750, 1000 m	Madeleine	enzyme activity, Bact biomass, nutrients, BSI, TOC, DOM, LIP	43°24.53'N 7°53.71'E
2014-051203CTD-18 0303019	2, 20, 50, 60m	Pere/Juan Carlos		43°26.72'N 7°49.71'E
0138-051303CTD-19 0303020	75, 100, 150, 200m	Pere/Juan Carlos		43°26.36'N 7°50.38'E
0413-051303CTD-20 0303021	10, 30, 125, 175m	Pere/Juan Carlos		43°26.58'N 7°50.53'E
0810-051303CTD-21 0303022	200m		elutriation and splitting water	43°24.44'N 7°49.89'E
1034-051303CTD-22 0303023	3, 25, CM, 75, 100, 200, 500, 750, 1000 m	Madeleine	TOC, DOM Pinger test	43°25.63'N 7°51.99'E

NetTrap Log

1420-050703NT-1	200 m; no cover	43°25.77'N 7°56'E	43°25.17'N7°55.26'E
0710-050803NT-2	200 m; no cover	43°25.72'N 7°53.90'E	43°24.60'N7°49.01E
2217-051003NT-3	200 m; cover	43°24.90'N7°51.9'E	

Elutriator Log

050803NT-1E1	For Incubation	
050803NT-1E1	Kirk, Gillian, Stuart	Sample sat for 5 hours before elutriation, and then overnight while settling
051003NT-2E1	For Incubation	
051003NT-2E2	Kirk/ Juan Carlos, Gillian, Gordon	Huge sample, may have overloaded Stage 1
051303NT-3E1 Covered	Stuart/Cindy	Smaller sample; elutriated entire sample

In-Situ Pump Log

	Depths	MEL/SUNY	Volume Filtered	Position
1558-050703ISP1	20, 60, 100, 200m	M, M, S, S	841, 828, 118, 350 L	43°26.14'N 7°55.52'E
2125-050703ISP2	2, 40, 80, 150 m	M, M, S, S	428, 492, 843, 455 L	43°25.31'N 7°54.88'E
2200-050803ISP3	2, 100, 300, 700, 1100, 1400 m	M, M, M, S, S, S	523, 787, 589, 600, 1366, 522 L	43°24.4'N 7°54.2'E
0000-051103ISP4	2, 20, 45, 75, 100, 150, 200 m	M, M, M, M, S, S, S	570, 592, 481, 1001, 343, 357, 429 L	43°25.30'N

				7°53.09'E
2238-051103ISP5 Comparison	64, 66, 199, 201	M, S, M, S	738, 413, 795, 383 L	43°25.53'N 7°51.93'E
2045-051203ISP6	2, 20, 50, 60, 75, 100, 150, 200	M, M, M, M, S, S, S, S	602, 789, 666, 821, 97.5, 598, 581, 387 L	43°26.60'N 7°49.90'E

Notes:

Pump cast 4 coincided with Zhanfei's CTD-10 and used only GF/F filters.
 Samples to Kirk, Juan Carlos, Cindy, Stuart, and Cast 6 only to Christian.
 MEL used 293-mm GF/F and SUNY used 142-mm Microquartz filters except where noted.

Sediment Trap Array

Release attempt 0857-050803 43°25.92'N 7°52.50'E
 Dragged, Traps came up as below; 4 floats recovered 0745-051203

Bottom-tethered mooring (5 arrays)

200m (Recovered 1330-050903 43°25.64'N 7°51.47'E)
 (Redeployed 051303 for July pick-up)
 2 IRSC sinking velocity collectors
 1 IRSC time-series trap

300m (Deployed for July pick-up)
 Gust collaboration array
 (3 IRS traps with different diameters)

400m (Lost)
 1 IRS integrator
 2 IRSC time-series trap

800m (Recovered 0940-051303 43°25.63'N 7°51.99'E)
 (Redeployed for July pick-up)
 1 IRS integrator
 2 IRSC time-series trap (1 IRS did not rotate)

1800m (Lost)
 1 IRS integrator
 2 IRSC time-series trap

Gust Drifting Trap

1345-050803 Deployed 43°21.895'N 7°56.211'E
 0758-050803 Recovered ~43°25.3'N 7°51.1'E

no material collected

Zooplankton Tows

2125-050903ZT1 (43°21.90'N 7°53.30'E) Lots of salps
0000-051003ZT2 (43°20.01'N 7°53.09'E)
0116-051003ZT3 (43°25.28'N 7°52.94'E)
0138-051003ZT4 (43°25.19'N 7°53.02'E)
0236-051303ZT5 (43°26.71'N 7°50.54'E)
0304-051303ZT6 (43°21.68'N 7°50.25'E)
0345-051303ZT7 (43°26.78'N 7°50.12'E)

Multicore

1651-051003 (43°25.49'N 7°53.14'E)

(Failed attempt - no pinger, no echo sounder, no meter wheel, no speed control on winch, no clearance on A frame)

Photo Gallery

