

# MedFlux



## Cruises - Endeavor

March 8-14, 2005

[Participants](#)

[Cruise Plan](#)

[Sample Log](#)

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### March Endeavor Cruise Plan

Time	08-March-05	09-March-05	10-March-05
01:00			Zooplankton Tows 1&2
02:00		CTD-2 for Pb/Po & Th	Phytoplankton Tow 1
03:00			
04:00			Steaming around perimeter of box to make water
05:00		CTD-3 for Pb/Po & Th	
06:00			
07:00			
08:00		Pump Cast 1	CTD-NR incubation water
09:00	Leave Nice		Box Coring
10:00	Ship Briefing		
11:00	Science Meeting	Pump Cast 2	
12:00	Arrive DYFAMED site		
13:00			Move to NT2
14:00			Recover NT2
15:00	Deploy NetTrap1 - 200m	Deploy NT2 - 200m	
16:00			Deploy NT3
17:00	CTD - for Pb/Po & Th	CTD - HPSS2 Christian	
18:00			CTD-10 Madeleine
19:00		Pump Cast 3	
20:00	CTD - HPSS1 Christian		
21:00			Zooplankton Tows
22:00	Recover Netrap1 - Lynn A.		
23:00		Find NetTrap	Phytoplankton Tows 2&3
00:00	Ship pumped		

### March Endeavor Cruise Plan

Time	11-March-05	12-March-05	13-March-05

01:00		Zooplankton Tow 5	
02:00			
03:00			
04:00	Track NT3	Relocate NT4	
05:00			
06:00			Looked for NetTrap
07:00	Recover NT3		
08:00			
09:00	CTD-4/5 - Centrifuge		
10:00	CTD-6 - Centrifuge		
11:00	CTD-7 - Centrifuge	Bad Weather	Headed for CTD station
12:00			
13:00			CTD-9 MEL/Zhanfei
14:00	Deploy NT4		
15:00			Pump Cast 4
16:00			
17:00	CTD-8 for Pb/Po & Th		
18:00			
19:00			Head for NetTrap
20:00			
21:00	Look for NT		Search for NetTrap
22:00			CTD-C4 Christian
23:00	Phytoplankton Tow 4		
00:00			

### March Endeavor Cruise Plan

March Endeavor Cruise Plan			
Time	14-March-05		
01:00	Phytoplankton Tow 5		
02:00			
03:00			
04:00			
05:00	Hunt for DY1 mooring		
06:00	DRAG		
07:00			
08:00			
09:00			
10:00			
11:00	Pump Cast 5		
12:00			
13:00			
14:00			
15:00	CTD-11 for Pb/Po & Th		
16:00			

17:00	Depart for Monaco		
18:00			
19:00			
20:00			
21:00			
22:00			
23:00			
00:00			

## Sample Log

### CTD Log

1712-030805CTD-1	5, 25, 60, 100, 125 m	Pere/Juan Carlos	Po/Pb/Th	43°25.40'N 7°52.15'E
2139-030805CTD-HPSS1 (050308up)	50, 100, 200, 500, 1000 m	Christian	Bacterial production Ectoenzyme activity	43°25.61'N 7°52.23'E
0007-030905CTD-2 (ship log 0203)	150, 200, 250, 300, 350 m	Pere/Juan Carlos	Po/Pb/Th	43°25.47'N 7°51.94'E
0450-030905CTD-3	500, 750, 900, 1050, 1500, 2000 m	Pere/Juan Carlos	Po/Pb/Th	43°25.62'N 7°51.80'E
1719-030905CTD-HPSS2 (050309)	All 2000 m	Christian HPSS	Bacterial production Ectoenzyme activity	43°26.7'N 7°51.66'E
0811-031005CTD-HPSS3 (050310)	All 200 m	Madeleine	Incubation water	43°20.14'N 7°51.59'E
1420-031005CTD-10 (ships log 1818)	3, 25, 50, 75, 100, 125, 175, 200, 250, 300, 400, 500, 750, 1000 m	Madeleine Christian	ectoenzyme activity, bact biomass, nutrients, ELF	43°25.11'N 7°51.76'E
0906-031105CTD-4/5	All 200 m	Cindy	centrifuge	43°24.46'N 7°51.39'E
1021-031105CTD-6 (CTD log has 031006)	All 200 m	Cindy	centrifuge	43°24.46'N 7°51.39'E
1229-031105CTD-7	All 200 m	Cindy	centrifuge	43°25.20'N 7°51.74'E
1649-031105CTD-8	5, 25, 50, 75, 100, 125, 150, 200, 275, 350, 400, 500, 700, 1000 m	Pere/Juan Carlos	Po/Pb/Th	43°24.88'N 7°51.97'E
1316-031305CTD-9	25, 60, 100, 150, 200, 300, 350, 400, 500, 600, 700, 800, 900, 1000, 1200, 1500, 1800, 2000 m	Zhanfei/MEL	Pump/bottle comparison	43°25.21'N 7°51.87'E
2226-031305CTD-HPSS4 (050311)	50, 400, 800, 1000, 1500 m	Christian	Bacterial production Ectoenzyme activity	43°23.22'N 7°51.6'E
1551-031405CTD-11	150, 175, 200, 250, 300, 400, 500 m	Pere/Juan Carlos	Po/Pb/Th	43°24.26'N 7°51.73'E

\*CTD numbers are out of temporal sequence

### NetTrap Log (all depths 200 m)

Deployment	Location deployed	Recovery (Hook)	Location recovered
1535-030805NT-1	43°28.7'N 7°56'E	2345-030805	43°26.7'N 7°52.0'E

1519-030905NT-2	43°23.9'N 7°51.99'E	1420-031006	43°19.2'N7°47'E
1655-031005NT-3	43°28.7'N7°59.0'E	0742-031106	43°22.1'N7°54.8'E
1455-031105NT-3	43°19.7'N7°57.1'E	Lost	

No cover on any traps

NT1-Lynn incubation (frame bent and net torn on recovery); NT2 Empty(line tangled around cod end); NT3 Madeleine incubation; NT4 lost

### In-Situ Pump Log

	Depths	MEL/SUNY	Volume Filtered	Position
0900-1100 030905ISP1	2, 25, 60, 100, 150 m	MEL	460, 936, 725, 706, 779 L	43°25.2'N, 7°51.8'E
1146-1430 030905ISP2	200, 300, 350, 400 m	SUNY	0, 791, 699, 575 L	43°25.4'N, 7°52.0'E
1946-2330 030905ISP3	200, 600, 800, 1200, 1500, 1800 m	MEL SUNY (200m)		43°26.7'N, 7°51.7'E

Pump cast 4 coincided with Zhanfei's CTD-9 and used only GF/F filters.

1535-1745 031305ISP4 Comparison	5, 25, 50, 75, 100, 150, 200 m	MEL (5-75m) SUNY (100-200m) GF/F	415, 451, 985, 657, 800, 738 L	43°24.8'N, 7°51.5'E
1127-1345 031405ISP5	300, 350, 400, 500, 600, 800, 900 m	MEL (500-900m) SUNY (300-400m)	396, 390, 322, 683, 528, 590, 561 L	43°25.5'N, 7°52.1'E

MEL used 293-mm and SUNY used 142-mm Microquartz filters except where noted.

### Plankton Log - MedFlux II Cruise (S. Fowler)

N.B. This describes the principal phytoplankton and zooplankton which were collected as samples. It is not a comprehensive quantitative or qualitative listing of all species present in the water column, just the key species observed or used for analyses.

8 March 2005	<p>Phytoplankton net: Dinoflagelates <i>Ceratium</i> sp. (lots of them), no diatoms noted in samples.</p> <p>Cindy and Lynn's "black seed" sample of heavier residue rinsed from splitter: <i>Ceratium</i> sp., small larval (?) pteropods swimming, *ostracods, *tintinnids (loricates) maybe <i>Dictyocysta</i> sp., <i>Globogerina</i> sp. (forams), <i>Vorticella</i> sp. (ciliates), many round dense black fecal pellets along with fragments of euphausiid fecal pellets. *(very abundant)</p> <p>Omari Zooplankton net: Pseudothecosome pteropod (<i>Cymbulia peroni</i>), euthecosome pteropods (the larger <i>Diacria trispinosa</i>, <i>Euclio pyramidata</i>, <i>Cavolinia gibbosa</i>, <i>Cavolinia inflexa</i>, <i>Cavolinia tridentata</i>), northern krill/euphausiid (<i>Meganyctiphanes norvegica</i>), euphausiids (<i>Euphausia krohnii</i>, <i>Nematoscelis megalops</i>), salps (<i>Salpa maxima</i>), copepods (<i>Calanus helgolandicus</i>, <i>Euchirella rostrata</i>, <i>Heterorhabdus</i> sp.</p>
10 March 2005	<p>Phytoplankton net: Brown phytoplankton soup was sieved through 300 um mesh.</p> <p>&lt;300um: Dinoflagelates <i>Ceratium contortum</i>, <i>Ceratium contrarium</i>, <i>Ceratium tripos</i>, and <i>Goniaulax</i> sp., copepodites, radiolarians, tintinnids, and <b>no</b> diatoms were noted!</p>

	<p>&gt;300um (Stuart elutriated this): radiolarians, acantharians, copepods (<i>Euchirella rostrata</i>, <i>Calanus helgolandicus</i>), some <i>Ceratium</i>, and fecal pellets.</p> <p>Omari Zooplankton net: Same zooplankton species that were collected on 8 March.</p>
11 March 2005	<p>Phytoplankton net: Took sample for Stuart, the girls and us. Brown soup as previous collections containing many copepod larvae and copepodites, radiolarians, tintinnids, fecal pellets and a very few diatoms (<i>Biddulphia</i> sp. and <i>Nitzschia</i> sp.).</p> <p>Omari Zooplankton net: Same zooplankton species that were collected on 8 and 10 March.</p>

### Zooplankton Tows (480µm net)

0012-031005ZT1 (43°24.6'N 7°52.3'E)  
0103-031005ZT2 (43°23.3'N 7°52.5'E)  
2118-031005ZT3 (43°26.0'N 7°54.2'E)  
2218-031005ZT4 (43°23.9'N 7°53.1'E)  
0120-031205ZT5 (43°14.6'N 8°02.3'E)

### Phytoplankton Tows (50µm net)

0220-031005PT1 (43°22.6'N 7°51.0'E) Elutriated, *Ceratium* (dinoflagellate) bloom  
2328-031005PT2 (43°21.9'N 7°52.5'E)  
0030-031105PT3 (43°26.78'N 7°50.12'E)  
0010-031205PT4 (43°17.4'N 7°59.5'E)  
0000-031405PT5 (43°23.4'N 8°17.5'E) phytoplankton for Lynn/Jenni

### Boxcore

1055-031005 (43°24.192'N 7°50.340'E)