

## Cruise inventory

# RV Prince Madog PD04/08

## Cruise summary report

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<b>Cruise Info.</b>	
<b>Cruise period</b>	2008-02-12 — 2008-02-15
<b>Status</b>	Completed
<b>Port of departure</b>	Menai Bridge, United Kingdom
<b>Port of return</b>	Menai Bridge, United Kingdom
<b>Purpose</b>	Research
<b>Objectives</b>	<p>The objectives are to recover COBS Smart Buoy and deploy moored instrumentation, i.e. STABLE III and mini-STABLE frames at the mouth of the River Dee. Also to carry out CTD observations for at least a tidal cycle in the Welsh Channel and the Hilbre Swash, to study turbulence and SPM processes. To Carry out a side scan sonar survey of the Hilbre Swash.</p> <p>In the following narrative all times are UMT The Prince Madog was loaded on the 11/02/2008, Mini-STABLE, was loaded. We sailed from Menai Bridge at 08:0 on the 12/02/2008. Go to site 12 adn deploy ADCP. Travel to Welsh Channel. After arriving to the Welsh Channel we carried a side scan sonar survey 12:02 most of the Channel until we deployed mini-STABLE at 13:00. Took grab samples and started 25 hrs CTD and INSSEV station at</p>

	13:30. Finished CTDs at 14:00 13/02/2008 and set sail to Vittoria Docks loading STABLE III and Triaxis wave buoy. 14/04/2008 set sail to Hilbre Channel 05:00 arriving at 07:30, carry out a side scan survey. Stable deployed at 9:15 and wave buoy at 10:00. 25 hrs CTD station started at 10:30. CTDs finished 15/02/2008 14:00 and set sail to Menai Bridge Docking at 17:00
<b>Chief scientist</b>	Alejandro J Souza (Proudman Oceanographic Laboratory)
<b>Project</b>	Dee Experiment
<b>Coordinating body</b>	Proudman Oceanographic Laboratory
<b>Ocean/sea areas</b>	
<b>General</b>	Irish Sea and St. George's Channel
<b>Specific</b>	Liverpool Bay, Mouth of the Dee Estuary
<b>Measurements</b>	
<b>Physical oceanography</b>	
Surface measurements underway (T,S)	Description: Underway Temp, sal, chlorophyll, transmittance.
CTD stations	Quantity: number of profiles = 83 Description: TD profiles, supplementary Chlorophyll, Transmissometer and LISST data
Current profiler (eg ADCP)	Description: On board ADCP
<b>Geology and geophysics</b>	
Grab	Quantity: number of samples = 3

	Description: Grab samples
Single-beam echosounding	Quantity: number of measurements = 3 Description: 3 lines of side scan sonar in the Hilbre Swash
<b>Moorings, landers, buoys</b>	
<b>Physical oceanography</b>	
Transparency (eg transmissometer)	53° 22' 11" N 3° 19' 30" W — Mini-STABLE with 3 5 MHz ADVs, 1.2 mode 12 ADCP, 2-D ripple scanner and ABS LISST-100 C rording at 20 min burst every hour at 1.0 m from the bed.
Current profiler (eg ADCP)	53° 22' 37" N 3° 14' 12" W — Bottom mounted 1.2 MHz RDI ADCP, mode 12 every second; 50cm bin size 20 min burst
Instrumented wave measurements	53° 23' 1" N 3° 14' 17" W — Triaxis wave ride
Other physical oceanographic measurements	53° 22' 20" N 3° 14' 3" W — STABLE with 2 5 MHz ADV, 1 10 MHz ADV, LISST-ST, 3-D Ripple profiler, ABS, Fast CT Samp.
Other physical oceanographic measurements	53° 27' 0" N 3° 38' 35" W — Recover SMART Buoy
Other physical oceanographic measurements	53° 22' 11" N 3° 19' 30" W — Mini-STABLE with 3 5 MHz ADVs, 1.2 mode 12 ADCP, 2-D ripple scanner and ABS LISST-100 C rording at 20 min burst every hour at 1.0 m from the bed.
<b>Data held at BODC</b>	
<b>Series/Profiles</b>	
84 CTD/STD cast	Raw suspended particulate material optical sensor output

Density of the water column

Visible waveband radiance and irradiance  
measurements in the water column

Transmittance and attenuation of the water column

Dissolved oxygen parameters in the water column

Raw fluorometer output

Temperature of the water column






Salinity of the water column

Vertical spatial coordinates




[\[Show series\]](#)

BOD C id	Date/Ti me	Location	Do c.
9289 77	2008- 02- 12 11:06	53° 26' 52" N 3° 29' 36" W	
9289 89	2008- 02- 12 13:33	53° 22' 10" N 3° 19' 53" W	
9289 90	2008- 02- 12 14:01	53° 22' 10" N 3° 19' 57" W	
9290 04	2008- 02- 12 14:31	53° 22' 10" N 3° 19' 57" W	
9290 16	2008- 02- 12 15:00	53° 22' 10" N 3° 19' 58" W	
9290 28	2008- 02- 12 15:30	53° 22' 10" N 3° 20' 0" W	
9290	2008-	53° 22' 9" N 3° 20'	

41	02- 12 18:31	1" W	
9290 53	2008- 02- 12 19:01	53° 22' 9" N 3° 20' 1" W	
9290 65	2008- 02- 12 19:33	53° 22' 9" N 3° 20' 1" W	
9290 77	2008- 02- 12 20:01	53° 22' 9" N 3° 20' 1" W	
9290 89	2008- 02- 12 20:31	53° 22' 9" N 3° 20' 1" W	
9290 90	2008- 02- 12 21:00	53° 22' 9" N 3° 20' 1" W	
9291 08	2008- 02- 12 21:34	53° 22' 9" N 3° 20' 1" W	
9291 21	2008- 02- 12 22:00	53° 22' 9" N 3° 19' 58" W	
9291 33	2008- 02- 12 22:30	53° 22' 10" N 3° 19' 57" W	
9291 45	2008- 02- 12 23:01	53° 22' 8" N 3° 19' 55" W	
9291 57	2008- 02- 12 23:30	53° 22' 8" N 3° 19' 54" W	


9291 69	2008- 02- 13 00:02	53° 22' 8" N 3° 19' 54" W	
9291 70	2008- 02- 13 00:32	53° 22' 8" N 3° 19' 54" W	
9291 82	2008- 02- 13 01:03	53° 22' 9" N 3° 19' 54" W	
9291 94	2008- 02- 13 01:31	53° 22' 8" N 3° 19' 54" W	
9292 01	2008- 02- 13 02:02	53° 22' 9" N 3° 19' 55" W	
9292 13	2008- 02- 13 02:32	53° 22' 9" N 3° 19' 57" W	
9292 25	2008- 02- 13 03:01	53° 22' 9" N 3° 19' 58" W	
9292 37	2008- 02- 13 03:31	53° 22' 9" N 3° 19' 59" W	
9292 49	2008- 02- 13 04:00	53° 22' 9" N 3° 20' 1" W	
9292 50	2008- 02- 13 06:35	53° 22' 9" N 3° 20' 1" W	
9292 62	2008- 02- 13 07:00	53° 22' 9" N 3° 20' 1" W	

9292 74	2008- 02- 13 07:31	53° 22' 9" N 3° 20' 1" W	
9292 86	2008- 02- 13 08:01	53° 22' 9" N 3° 20' 1" W	
9292 98	2008- 02- 13 08:30	53° 22' 9" N 3° 20' 1" W	
9293 05	2008- 02- 13 09:00	53° 22' 9" N 3° 20' 1" W	
9293 17	2008- 02- 13 09:33	53° 22' 9" N 3° 20' 1" W	
9293 29	2008- 02- 13 10:02	53° 22' 8" N 3° 20' 0" W	
9293 30	2008- 02- 13 10:32	53° 22' 9" N 3° 19' 58" W	
9293 42	2008- 02- 13 11:03	53° 22' 8" N 3° 19' 55" W	
9293 54	2008- 02- 13 11:32	53° 22' 7" N 3° 19' 55" W	
9293 66	2008- 02- 13 12:01	53° 22' 7" N 3° 19' 55" W	
9293 78	2008- 02- 13 12:31	53° 22' 8" N 3° 19' 55" W	


9293 91	2008- 02- 13 13:00	53° 22' 8" N 3° 19' 54" W	
9294 09	2008- 02- 13 13:31	53° 22' 8" N 3° 19' 55" W	
9294 10	2008- 02- 13 13:59	53° 22' 1" N 3° 19' 14" W	
9294 22	2008- 02- 14 10:33	53° 22' 9" N 3° 13' 48" W	
9294 34	2008- 02- 14 10:59	53° 22' 9" N 3° 13' 48" W	
9294 46	2008- 02- 14 11:30	53° 22' 8" N 3° 13' 48" W	
9294 58	2008- 02- 14 12:00	53° 22' 7" N 3° 13' 49" W	
9294 71	2008- 02- 14 12:30	53° 22' 5" N 3° 13' 42" W	
9294 83	2008- 02- 14 12:57	53° 22' 6" N 3° 13' 41" W	
9294 95	2008- 02- 14 13:29	53° 22' 5" N 3° 13' 41" W	
9295 02	2008- 02- 14 14:59	53° 22' 5" N 3° 13' 41" W	



9295 14	2008- 02- 14 15:31	53° 22' 5" N 3° 13' 41" W	
9295 26	2008- 02- 14 15:59	53° 22' 6" N 3° 13' 43" W	
9295 38	2008- 02- 14 16:32	53° 22' 9" N 3° 13' 48" W	
9295 51	2008- 02- 14 17:01	53° 22' 8" N 3° 13' 48" W	
9295 63	2008- 02- 14 17:31	53° 22' 9" N 3° 13' 47" W	
9295 75	2008- 02- 14 18:01	53° 22' 9" N 3° 13' 47" W	
9295 87	2008- 02- 14 20:34	53° 22' 9" N 3° 13' 47" W	
9295 99	2008- 02- 14 21:01	53° 22' 9" N 3° 13' 47" W	
9296 06	2008- 02- 14 21:31	53° 22' 9" N 3° 13' 47" W	
9296 18	2008- 02- 14 22:01	53° 22' 9" N 3° 13' 48" W	
9296 31	2008- 02- 14 22:30	53° 22' 9" N 3° 13' 48" W	

9296 43	2008- 02- 14 22:59	53° 22' 8" N 3° 13' 49" W	
9296 55	2008- 02- 14 23:30	53° 22' 7" N 3° 13' 49" W	
9296 67	2008- 02- 15 00:00	53° 22' 7" N 3° 13' 49" W	
9296 79	2008- 02- 15 00:30	53° 22' 7" N 3° 13' 47" W	
9296 80	2008- 02- 15 01:04	53° 22' 6" N 3° 13' 45" W	
9296 92	2008- 02- 15 01:31	53° 22' 5" N 3° 13' 42" W	
9297 11	2008- 02- 15 02:00	53° 22' 4" N 3° 13' 42" W	
9297 23	2008- 02- 15 02:29	53° 22' 4" N 3° 13' 41" W	
9297 35	2008- 02- 15 03:58	53° 22' 4" N 3° 13' 42" W	
9297 47	2008- 02- 15 04:32	53° 22' 4" N 3° 13' 42" W	
9297 59	2008- 02- 15 05:02	53° 22' 5" N 3° 13' 46" W	


9297 60	2008- 02- 15 05:32	53° 22' 5" N 3° 13' 46" W	
9297 72	2008- 02- 15 06:02	53° 22' 6" N 3° 13' 46" W	
9297 84	2008- 02- 15 06:31	53° 22' 7" N 3° 13' 46" W	
9297 96	2008- 02- 15 07:02	53° 22' 7" N 3° 13' 46" W	
9298 03	2008- 02- 15 07:32	53° 22' 7" N 3° 13' 46" W	
9298 15	2008- 02- 15 08:03	53° 22' 8" N 3° 13' 47" W	
9298 27	2008- 02- 15 08:32	53° 22' 8" N 3° 13' 47" W	
9298 39	2008- 02- 15 09:00	53° 22' 8" N 3° 13' 47" W	
9298 40	2008- 02- 15 09:31	53° 22' 7" N 3° 13' 47" W	
9298 52	2008- 02- 15 10:30	53° 22' 7" N 3° 13' 48" W	
9298 64	2008- 02- 15 10:59	53° 22' 7" N 3° 13' 48" W	

9298 76	2008- 02- 15 11:31	53° 22' 8" N 3° 13' 49" W	
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1 GPS positioning system

Raw suspended particulate material optical sensor output  
 Density of the water column  
 Visible waveband radiance and irradiance measurements in the water column  
 Transmittance and attenuation of the water column  
 Dissolved oxygen parameters in the water column  
 Raw fluorometer output  
 Temperature of the water column  
 Salinity of the water column  
 Vertical spatial coordinates  
 Date and time  
 Horizontal spatial co-ordinates  
 Platform or instrument orientation  
 Bathymetry and Elevation  
 Horizontal platform movement

[\[Show series\]](#)


BOD C id	Date/Time	Location	Do c.
9321 16	2008-02- 12 09:11	53° 19' 18" N 4° 1' 59" W —	
	— 2008- 02- 15 17:00	53° 31' 1" N 3° 12' 47" W	

1 Meteorological data logger

Raw suspended particulate material optical sensor output

Density of the water column  
 Visible waveband radiance and irradiance  
 measurements in the water column  
 Transmittance and attenuation of the water column  
 Dissolved oxygen parameters in the water column  
 Raw fluorometer output  
 Temperature of the water column  
 Salinity of the water column  
 Vertical spatial coordinates  
 Date and time  
 Horizontal spatial co-ordinates  
 Platform or instrument orientation  
 Bathymetry and Elevation  
 Horizontal platform movement  
 Date and time  
 Wind speed and direction  
 Horizontal spatial co-ordinates  
 Air temperature  
 Solar Radiation  
 Atmospheric humidity  
 Air pressure

[\[Show series\]](#)

BOD C id	Date/Time	Location	Do c.
9321 04	2008-02- 12 09:11	53° 19' 18" N 4° 1' 59" W —	
	— 2008- 02- 15 17:00	53° 31' 1" N 3° 12' 47" W	

1 Ship's non-toxic

Raw suspended particulate material optical sensor

supply

output

Density of the water column

Visible waveband radiance and irradiance

measurements in the water column

Transmittance and attenuation of the water column

Dissolved oxygen parameters in the water column

Raw fluorometer output

Temperature of the water column

Salinity of the water column

Vertical spatial coordinates

Date and time

Horizontal spatial co-ordinates

Platform or instrument orientation

Bathymetry and Elevation

Horizontal platform movement

Date and time

Wind speed and direction

Horizontal spatial co-ordinates

Air temperature

Solar Radiation

Atmospheric humidity

Air pressure

Raw suspended particulate material optical sensor  
output

Date and time

Transmittance and attenuation of the water column


Horizontal spatial co-ordinates

Raw fluorometer output

Temperature of the water column

Salinity of the water column

[\[Show series\]](#)

BOD C id	Date/Time	Location	Do c.
932097	2008-02-12 09:11 — 2008-02-15 17:00	53° 19' 18" N 4° 1' 59" W — 53° 31' 1" N 3° 12' 47" W	

### Discrete samples

84 CTD frame plus rosette sampler

Raw suspended particulate material optical sensor output  
Density of the water column  
Visible waveband radiance and irradiance measurements in the water column  
Transmittance and attenuation of the water column  
Dissolved oxygen parameters in the water column  
Raw fluorometer output  
Temperature of the water column  
Concentration of suspended particulate material in the water column  
Salinity of the water column  
Raw light meter output