EAST COAST REC GROUNDTRUTHING SURVEY

Cefas, BGS, Wessex Archaeology, Envision Mapping and MESL

CEND 09/09 - Cruise Plan

29th April 2009

Dave Limpenny – Project Leader

Vessel:

Cefas Endeavour (Cruise Ref: CEND 09/09)

Cruise dates:

Mobilisation for the MEPF cruise (CEND09/09) will take place in Lowestoft, alongside the Cefas quay during 18th and 19th May. It is our intention to sail on the 17:00hrs tide on 19th May.

All staff should be on-board by 10:00hrs on 19th May. There will be an Induction Tour of the vessel prior to sailing and a Toolbox Talk at some point after 17:00hrs on 19th. All staff should make themselves available for both meetings. Details will be posted on the vessel on 18th May.

Operational phases:

Phase A: 19th May – approximately 25th May
Crew and equipment change at end of phase will take place alongside in Lowestoft

Phase B: Approximately 25th May – approximately (but no later than) 15th June
Vessel will demobilise alongside in Lowestoft no later than 15th June.

Staffing:

The cruise will be staffed to a level that allows all datasets to be acquired to acceptable levels of quality. The staffing complement includes technicians who are expert in the deployment of appropriate equipment and the acquisition of high quality data. The team will also include geologists, biologists and archaeologists who are expert in the collection of samples relating to their specific disciplines.

We will be joined by a Client Representative (John Coppock) from the MEPF who will be responsible for assisting with survey planning decisions and ensuring the quality of data/samples as it is acquired. The Client Representative will provide a link between the project team and the onshore MEPF steering group.

Staff list:

Phase A:

	Name	Company	Role
1	John Coppock	MEPF	Client Rep
2	Dave Limpenny	Cefas	Scientist-in-Charge/Party Chief/Sedimentologist
3	Nigel Lyman	Cefas	Senior technician
4	BGS	BGS	
5	BGS	BGS	
6	BGS	BGS	

7	BGS	BGS	
8	BGS	BGS	
9	BGS	BGS	
10	Wessex	Wessex	Archaeologist
11	Wessex	Wessex	Archaeologist
12	Theo Gaussen	MEPF	MSc student
13	Dominic Starkey	Cefas	Sedimentologist (training and outwith MEPF)

Phase B:

	Name	Company	Role
1	John Coppock	MEPF	Client rep
2	Keith Cooper	Cefas	Scientist-in-Charge/Party Chief/Benthic ecologist
3	BGS	BGS	Geologist
4	MESL	MESL	Benthic ecologist
5	MESL	MESL	Benthic ecologist
6	Wessex	Wessex	Archaeologist
7	Wessex	Wessex	Archaeologist
8	Christian Wilson	Cefas	Geophysicist
9	Chris Barrio	Cefas	Senior benthic ecologist
10	Suzanne Ware	Cefas	Benthic ecologist
11	Matt Curtis	Cefas	Benthic ecologist
12	Bill Meadows	Cefas	Senior technician
13	MIST support	Cefas	Technician (training and outwith MEPF))
14	MIST support	Cefas	Technician (training and outwith MEPF))
15	Fiona Miller	MEPF	MSc student

Crew changes.

There will be an (almost) full scientific crew change at the end of Phase A. This will take place alongside in Lowestoft. Any other crew changes that are deemed necessary will take place either alongside in Lowestoft, or will utilise the services of the Lowestoft or Yarmouth pilot vessels.

It is our understanding that all crew changes involving MEPF staff should only take place alongside the quay.

Cruise strategy

All equipment for both phases of the cruise will be loaded onto the vessel at the start of Phase A. The virbocorer and clamshell grab and all samples collected during Phase A will be removed from the vessel at the end of Phase A. Quayside craneage will be required for constructing/loading and deconstructing/unloading the vibrocorer and for loading/unloading the clamshell grab.

From the time that the vessel sails, the scientific staff will operate on a 12hr on/12hr off basis. The scientist-in-charge and the client rep will operate on a 12hr basis (08:00hrs – 20:00hrs) but will be available on a 24hr basis.

Figure 1 shows the planned survey grid from the Geophysical survey conducted on-board Cefas Endeavour in October 2008. During CEND 09/09, we will be operating within the boundaries of this grid.

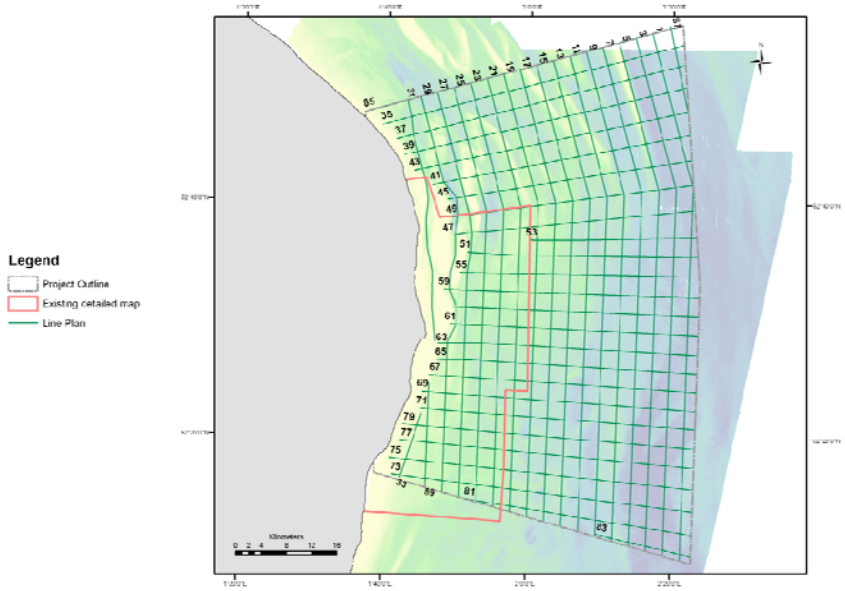

Figure 1. Geophysical survey line plan.

During Phase A of the cruise, we will be solely engaged in the collection of clamshell grabs and 6metre vibrocores from around 30 sites within the grid shown in Figure 1. The clamshell grab will be deployed from the starboard A frame and the vibrocorer will be deployed from the stern A frame.

During Phase B of the cruise we will be collecting up to 100 groundtruthing samples from within the grid using a combination of mini-Hamon grabs, 2m Jennings beam trawls and various camera techniques. We will also be conducting a trial of a new design of Hamon grab supplied by John Coppock. Throughout this phase of the cruise we will be confirming areas of seabed that warrant additional survey work which will help to establish the nature and extent of areas of habitat interest. Once identified, a range of acoustic (multibeam and dual frequency/single range sidescan sonar) and groundtruthing tools will be deployed as required.

Vessel status will be assigned on 0.25hr basis by agreement between the SIC and the Client Rep. There will be five recognised levels of vessel status:

1. Operational
2. Standby at sea
3. Stand-down alongside
4. Mobilising
5. Demobilising

6. Downtime (equipment/vessel failure)

The final available day that the vessel is available to MEPF for de-mobilisation of this survey will be the 15th June.

Dave Limpenny (Project Leader)

29th April 2009