Not to be cited without reference to the Marine Laboratory, Aberdeen

MRV *Alba na Mara*

Survey 0615A

PROGRAMME

28 April – 5 May 2015

Loading: Fraserburgh, 25 April 2015
Unloading: Fraserburgh, 5 May 2015

In setting the survey programme and specific objectives, etc the Scientist-in-Charge needs to be aware of the restrictions on working hours and the need to build in adequate rest days and rest breaks as set out in Marine Scotland's Working Time Policy (Lab Notice 34/03).

In addition, the Scientist-in-Charge must formally review the risk assessments for the cruise with staff on-board before work is commenced.

In the interest of efficient data management it is now mandatory to return the Survey Report to Iain Gibb and the Survey Summary Report (old ROSCOP form) to Matt Geldart, within four weeks of a survey ending. In the case of the Survey Summary Report a nil return is required, if appropriate.

Personnel

C Hall (SIC)	28 April to 1 May
N Collie	28 April to 1 May
J Hunter	28 April to 5 May
E Armstrong (SIC)	1 May to 5 May
Mike O'Malley	1 to 5 May

Out-turn days per project: FRPRM9 (20040) - 8 days

Equipment

130 m polyurethane cable
TV drop frame
Mesh calibration grid
SubC1 HD cameras
Kongsberg Digital Cameras OE14-208 & 14-408
Video Ray ROV & Dyneema recovery line
Trackpoint tracking system
USBL tracking system
PUP pop-up recovery system
Scanmar depth sensor
Laser stripe projector
Laser scanner (Savante)
FLOWBEC EK60 controller & transducers in test frame
Fluke 43 Mains Analyser

Objectives

1) To test and compare a variety of TV & HD cameras and associated lights.

2) To integrate a digital camera and new laser projector (optimise camera settings for use with laser & flash).

3) Staff training in the deployment, operation and recovery of a VideoRay ROV, including integration of a micro-USBL tracking system.

4) To assess a commercial 3-D laser imaging system (Savante Ltd).- possibly

5) Calibrate the EK60 system for FLOWBEC

6) Monitor the ship's mains power supply to compare outputs on harbour and main generator sets

Procedure

Scientific equipment will be transported to Fraserburgh on 25 April. The TV cable will be loaded onto the winch, the over-side transducer pole fitted and lab equipment installed. If necessary, set-up will be completed on 27 April or when staff join *Alba na Mara* during the morning of 28 April. ROV trials will start in the Moray Firth in areas of sandy sea-bed and 30 m depth with the vessel at anchor. Subsequent instrumentation and TV trials will continue as conditions permit. The stability of the ship's mains supply will be monitored while under different load. The ship will return to Fraserburgh at the end of each day for equipment configuration and to review data.

During the second half of the survey, the vessel will sail to Orkney or Loch Erribol to calibrate the EK60 system and hull transducers

After the trials, *Alba na Mara* will un-load equipment in Fraserburgh on 5 May

Normal contacts will be maintained with the laboratory.

Submitted
C. Hall
2 April 2015

Approved:
I. Gibb
30 April 2015