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**Programme: Loch circulation model validation fieldwork 2007 (FC11102) Phase I**

16-20 July 2007

**Location**

Loch Ewe, Ross-shire

**Personnel**

J Beaton (OIC)  
D Lichtman

**Vessels and transport**

*MV Glen Tarff*  
Transit van  
Box van (equipment delivery only)

**Objectives**

The aim is to collect data to verify a loch circulation model in Loch Ewe. A total of six moored instruments will be deployed at locations in Loch Ewe and an automatic weather station and PAR sensor is to be set up at the FRS ML Fish Cultivation Unit at Mellon Charles.

- Deploy an Aanderaa remotely monitored environmental data buoy;
- Deploy an Aanderaa RDCP600 recording doppler current profiler in a trawl-resistant bottom mount;
- Deploy two Sontek Argonaut acoustic current meters;
- Deploy two RBR water level recorders;
- Set up data buoy receiver station at the field station;
- Set up Licor PAR sensor and data buoy receiver;
- Take an NXIC CTD profile at each mooring deployment site and positions along a transect as time allows;
- Perform GPS drifter survey as time allows;

**Procedure**

Staff and equipment will travel to Loch Ewe on the 16 July. The data buoy, bottom mount and ballast weights will be transported to Loch Ewe by box van.

The data buoy receiver station will be setup at the FRS ML Fish Cultivation Unit and will consist of an antenna, a deck unit, PC for logging data and UPS to provide redundancy in case of power interruptions. The PC will also be set up to run the PAR sensor.

Buoy deployments, CTD profiles and drifter releases will be carried out on the *MV Glen Tarff*.

Laboratory staff will return to Aberdeen on the afternoon of the 20 July.

J A Morrison  
13 July 2007

**Contacts**

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