

CRUISE REPORT: ISLE OF MAN

22nd – 23rd May 2010

RV Prince Madog Cruise

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ABSTRACT

This report details a scientific research cruise undertaken in the Northern Irish Sea in May 2010. The principle aims of the cruise were to: 1) collect *Glycymeris glycymeris* from the Isle of Man area and 2) to collect scallops from the Isle of Man Area. The animals collected from the Isle of Man are to be used to investigate their reproductive biology.

G. Glycymeris were obtained using the Anchor dredge.

PERSONNEL

All the scientific crew involved were from the School of Ocean Sciences, Bangor University.

1. Prof C Richardson (PSO)
2. Mrs Carol Richardson
3. Mr Tim Whitton
4. A N Other

SCHEDULE:

- 22nd May:** **Mobilise 8am – 11am;** high tide 9:31 and 21:52. 4 members of SOS embark (IR, NJ, FB) (**3 scientists on board**).
- 22nd May:** **Leave Menai bridge Pier 12:00;** transit to Chickens, Isle of Man Waters.
- 22nd May:** **Arrive at Station Chickens and Sample;** ETA 14:00
Sample using Scallop Dredge
- 22nd May:** **Transit to Isle of Man Station 84,** dredging for live *Glycymeris*.
- 22nd May:** **Transit to overnight stop in Port St Mary.**
- 23rd May** **Transit to Menai Bridge,** (~ 70 nautical miles/7hrs).
- 23rd May:** **Arrive Menai Bridge:** (ETA: 2:00 pm) for demobilisation

OBJECTIVES:

1. To collect *Glycymeris glycymeris* at Station 84 off the S coast of the Calf of Man, South of the Isle of Man (54.02495 °N -4.80945 °W), using the Anchor Dredge.
2. Obtain 200 *G. Glycymeris* for Coleen Suckling (SOS).
3. To collect Scallops (50 animals of each size class 3,4 and 5 year olds) at Chickens in Isle of Man Waters.

STATIONS

The Anchor dredge was deployed at 1 station identified in the original cruise plan; station 84. The Scallop dredge was deployed at the Chickens Scallop grounds in the Isle of Man. All stations had been previously studied so no sidescan sonar survey was undertaken prior to dredging.

Station	Location	Latitude	Longitude
Chickens	Chickens	53° 58.84 N	4° 51.21 W
84	South of IOM	54° 1.497 N	4° 50 W

Table 1: Station positions and number of specimens collected from each location.

The coordinates, depth, duration of each of the tows and the number and state of *A. islandica* collected is provided in Appendix A at the end of the document.

ISLE OF MAN SAMPLING

Permission to sample at these locations was provided by DAFF, Isle of Man Government. The locations and densities of *G. glycymeris* populations sampled were provided by Lee Murray (DAFF).

STATION 84

At Station 84 the first 1 anchor dredges was successful. Coordinates provided in Appendix A. 200 *G. glycymeris* were obtained for Coleen Suckling (SOS) and 40 of a range of sizes were taken to investigate their reproductive biology.

Chickens

At the Chickens ground the scallop dredge was deployed once and 50 3,4 and 5 year old scallops were collected for Dr Hinz (SOS). Coordinates provided in Appendix A.

At each location a temperature logger was deployed to record the temperature profile at that site.

Appendix A – Position time and Depth of tows and grabs

Two rows are shown for each tow, representing the start and finish of dredging or trawling, from the end of the deployment process to the start of the recovery process.

STATION 84: coordinates for locations of the anchor dredges used to obtain *G. glycymeris* of the Calf of Man IOM. 22/05/2010.

Time	Location	Depth	Lat	Long	Remarks
16:29 PM	84	48	54°00.874	004°47.570	Deploy anchor dredge
16:33PM	84	47	54°00.899	004°47.286	Recover anchor dredge

Chickens: coordinates for locations of the Scallop dredges used to obtain *scallops* from the Chickens Scallop grounds in the Isle of Man (22/05/2010).

Time	Location	Depth	Lat	Long	Remarks
14:50PM	Chickens	64.1	54°58.854	004°51.113	Deploy dredge
15:38PM	Chickens	67.6	53°58.830	004°54.688	Recover dredge