

CRUISE REPORT: ISLE OF MAN

28th January 2011

RV Prince Madog Cruise

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ABSTRACT

This report details a scientific research cruise undertaken in the Northern Irish Sea in January 2011. 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. Dr Iain Ridgway (SIC)
2. Miss Sarah Lass

SCHEDULE:

- 27th Jan:** Mobilise 3pm – 5pm; high tide 17:30
- 28th Jan:** Leave Menai bridge Pier 07:30; transit to Chickens, Isle of Man Waters.
- 28th Jan:** Arrive at Station Chickens and Sample; ETA 13:00
Sample using Scallop Dredge
- 28th Jan:** Transit to Isle of Man Station 84, ETA 15:00 dredging for live *Glycymeris*.
- 28th Jan:** Transit to Menai Bridge, (~ 70 nautical miles/7hrs).
- 28th Jan:** Arrive Menai Bridge: (ETA: 21:00 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 60 Scallops for Tom Galley (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 unsuccessful (anchor dredge inverted), but the following 2 were successful. Coordinates provided in Appendix A. 50 live and a bag of shells of dead *G. glycymeris* were obtained sclerochronological analysis at (SOS), 200 live *G. glycymeris* were kept alive for experimentation, 40 of a range of sizes were taken to investigate their reproductive biology and 30 were retained for condition analyses and frozen at -20.

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.

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. 28/01/2011.

Time	Location	Depth	Lat	Long	Remarks
14:44 PM	84	55	54°00.541	004°47.967	Deploy anchor dredge
14:50PM	84	55	54°00.680	004°47.790	Recover anchor dredge
14:53 PM	84	55	54°00.526	004°47.636	Deploy anchor dredge
14:56PM	84	56	54°00.533	004°47.494	Recover anchor dredge
15:05 PM	84	54	54°00.595	004°47.145	Deploy anchor dredge
15:02PM	84	54	54°00.595	004°47.980	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 (28/01/2011).

Time	Location	Depth	Lat	Long	Remarks
13:23PM	Chickens	66	54°58.707	004°51.615	Deploy dredge
14:05PM	Chickens	61	53°58.854	004°54.410	Recover dredge