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Chartered Vessel  
"Dawn Sky"

### Report

2-23 November 1987

### Personnel

#### Part 1 (2-9 November)

R Priestley	SSO
P J Barkel	PTO
B Wilkie	Seamatrix
K Adams	Seamatrix
J Franco	Seamatrix/Visitor
<del>F T Larrinaga</del>	<del>Seamatrix/Visitor</del>

#### Part 2 (9-23 November)

R D Galbraith	HSO
C D Hall	HSO
R J Kynoch	ASO
C A Stewart	Craftsman
A W Newton	SSO (9-14 November)
N S Collie	PTO ( " )
K A Coull	HSO (14-23 November)
S A Reeves	SO ( " )
J T M Hunter	PTO ( " )

### Objectives

1. To test the Seamatrix RCTV system by manoeuvring it around a JCB trawl towed at 3 knots.
2. To use a sampling trawl under monitored conditions in order to relate the catches to the measured gear performance and environmental parameters.

### Narrative

With fishing gear loaded and the Seamatrix RCTV system installed on 2 November at Aberdeen, the vessel sailed at midnight for the clearer waters off Orkney. It was not possible to shoot the vehicle safely on to the trawl until 6 November as various breakdowns delayed the performance trials. However, once these initial problems had been solved, there followed three days in the Copinsay area when it was possible to work all daylight hours. The half landing took place at Scrabster on 9 November when the underwater vehicle was unloaded and staff changed over.

"Dawn Sky" then worked east and west orkney areas as weather permitted until 14 November when the vessel returned to Scrabster to pick up additional equipment and a further staff changeover took place. The vessel left Scrabster early on 15 November and worked North Coast, Orkney, Fair Isle and Moray firth areas. Two days were lost due to adverse weather conditions and bad weather again stopped work on 22 November. "Dawn Sky" steamed south to enter Aberdeen early on 23 November; fishing gear and instrumentation were unloaded later that day.

### Results

Part 1 - Excellent weather conditions and very clean water allowed good video to be obtained. Black and white photographs were also taken. A special report on the vehicle's capability is now being prepared.

Part 2 - A total of 33 hauls were made, of which 32 were fishing hauls carried out under monitored conditions. Environmental parameters were recorded at the start of each haul with surface light levels and gear performance logged throughout. The results will be analysed in the Laboratory.

R Priestley  
R D Galbraith  
11 December 1987