In Confidence - Not to be quoted with prior reference of the Laboratory FRV | Scotia!

Report

23 February - 14 March

and a specific graph arms marketings the little of the first of the second of the seco Demersal trawling survey of grounds off the North and West of Scotland.

Narrative Scotial San Chairman at Mark to the State of th Scotia sailed from Govan at 1130 hours on 24 February and after checking the radar system and making compass adjustments the ship anchored off Greenock to allow the ship's staff time to prepare the trawl gear etc. Work commenced on 25 February in the (lyde and continued westwards along the Irish Coast with only the occasional inferruption due to the weather. The outer most stations off the Hebrides were completed before the ship docked in Stornoway for the mid-trip break on Friday 4 March. Whilst in port repairs were carried out to the wave gates and to the sweep fairlead rollers. Work recommended on 5 March, in the South Minch aren. The remainder of the stations to the west of the Hebrides and in the Mirch were completed before the ship called briefly at Ullapoel on 11 March to uplift an additional GOV trawl before steaming North to the Solan area where the remaining survey stations were completed. An additional six stations were worked in the Noup, Fair Isla and Start, Point areas before the ship seturned to Aberdeen at 1130 hours on 14 March.

Results

The whole survey was a ccessfully completed with a total of 50 trawls being made during the cruise. Catch rates varied between stations and ranged from one basket to 165 baskets per hour. Catches per 10 hours fishing by research vessel sampling area are given in the table below.

Catch rates were good throughout the survey area. The highest catches were obtained in the Butt o: Lewis and Outer Hebrides areas where catches of up to 165 baskets and 100 baskets per hour respectively were taken.

Cod were taken in the .argest numbers off the North West coast of Ireland where in statistical rectangle 39E1 a catch of 50 baskets per hour was obtained.

Haddock were scarce in the Minch and in the Clyde. The highest numbers were obtained in the Butt b! Lewis area. With the exception of the Minch and Shetland areas very fer: 1+ (1982 year class) were caught. In general the catches were dominated by the 1979 year class. Whiting were distributed throughout the West Co. ist survey area. The age composition was similar to that of haddock with few 1+ fish, but reasonably high catch rates of the 1979 year class. The highest cariches were obtained at the extra stations in the Shetland area. Saithe were onl; caught in small numbers.

Norway pout were most abundant in the Clyde, South of 56°, Outer Hebrides and Butt of Lewis areas.

Hake provided an interesting feature of the survey with large numbers of the 1982 year class being taken in the South Minch and Inner Hebrides areas.

Herring showed a similar distribution to previous years with appreciable numbers of adult herring being taken to the NW of Ireland and the NW of the Hebrides. These were mainly autumn spawning fish. Juvenile herring (€ 20 cm) were caught in appreciable numbers, only in the Clyde and in the North Minch areas. In the latter area they formed a major component of the catch.

Mackerel were taken in small numbers over a wide area, the largest catch being taken south of Stanton Bank. The same of the sa

Weight/Length: Samples of Saithe were deep frozen and recurred to the lacoratory. The weight data on 30 Cod, 400 Haddock, 350 Whiting and 10 Saithe were measured at sea using the computerised weighing system. Observations were also made on a number of non-commercial species. What was collected on meturity at age for Cod,

Maturity Data/Pyloric caeca: Data as collected on maturity at age for Cod,
Haddock, Whiting and N. pout throughout the survey area. Pyloric caeca were
collected from herring on an area basis.

A P Robb
29 March 1983

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Numbers Per 10 Hours Fishing

Area	No Hauls	-Ro Raskets	Cod	Haddock	Whiting	Saithe	Herring	Mackerel.	N. Pout	Hake
Clyde South 56° South Minch Outer Hebrides Butt of Lewis Inner Hebrides	5	105 220 - 70 284 552 37 67	220 493 122 206 140 28 7	170 4080 614 7602 31794 117 6640	5610 5870 1814 3550 5528 6287 1040	265 40 40 44 140 1830	20465 8037 260 599 3836 1830	260 795 6 89 244 5	46375 27125 5544 31476 205398 9068 1960	65 402 1604 18 24 882 3
West Orkney Shetland Buchan	1 4 1	40 175 175	20 42 ~	16 30 9945 45 90	80 11717 22420	944 1746 144	210 ? 140	3 %	- - 3825 510	eds und

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