removing a tickler chain from a whitefish trawl

to reduce the capture of skates, rays and sharks while retaining commercial species

TARGET SPECIES

Haddock, whiting and monkfish

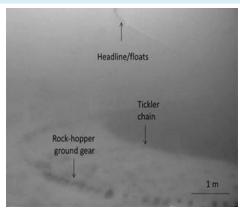
AREA, VESSEL

17 paired alternate hauls took place in the west of Scotland on board the MRV *Scotia*

GEAR MODIFICATION

A commercial whitefish trawl was towed both with and without a tickler chain.

Tickler chain was 37.5m long, made from 19 mm mid-link chain



the tickler chain running along the seabed 4m ahead of the rock-hopper groundgear.

RESULTS

removing the tickler chain:

- significantly lowered the catch rate of skates and sharks,
- had little effect on catch rates of haddock, whiting, and flatfish, but
- caused a marked decrease in the catch rate of commercially valuable anglerfish.

FURTHER INFORMATION

Kynoch, R. J. et al., 2015. A simple technical measure to reduce bycatch and discard of skates and sharks in mixed-species bottom-trawl fisheries. ICES JMarSci 72: 1861–1868.



% retained in trawl when		
	tickler on	tickler off
Skates		
Cuckoo ray	63	25
Flapper skate	64	23
Spotted ray	87	48
Thornback ray	53	54
Sharks		
Blackmouth	12	5
Lesser spotted	58	45
Spurdog	96	92
Flatfish		
Lemon sole	69	64
Megrim sole	45	88
Plaice	78	77
Anglerfish		
Angler	31	15
Gadoids		
Haddock	98	97
Whiting	91	78
9		









