Development of selective pot fishery targeting cod and flat fish

- May a collapsible pot be used in a combined cod and turbot fishery

Fishery / target species: Cod and Turbot
Area: Baltic Sea, ICES 25
Fisherman: Bengt Larsson
Gear type: Collapsible, baited pots in the Baltic Sea
Modification: The pot is modified from an earlier pot model showing good catch rates and have been made collapsible along with being equipped with entrances for turbot.

Gear design (Main mesh size is 25 mm between knots. Selection panel with mesh size 35 mm between knots. Cod entrance is made from a round metal ring, circumcise 200 mm, while the Turbut entrance is rectangular shaped 400x100 mm)





Result CPUE, mean catch of cod per haul (n±1sd) for collapsible pots (green) and the reference pot (red).)



Conclusion

 The collapsible pot models (green) show statistically same catch rate of cod as the reference pot (red)., allowing for storage of more pots on the boat.



Fishery / target species: Lobster (Homarus gammarus)/Cod (Gadus morhua)
Area: Kattegat and Skagerrak, ICES area 20, 21
Fisherman: Henrik Björklund
Gear type: Pots for multispecies
Modification: Development pot design targeting multi species

Gear design Bottomstanding pots in green polythen with a meshsize of 22 mm (knot to knot) with different numbers of entrances and type of entrance.





Results Figure 1a, b, c. Number of catch per pot and day (CPUE) for lobster (a), cod (b) and crab (c) for the different pot types. Error bars indicate 95% c.i.



C2ROV- traditional lobsterpot; T13LHV- Entrance is 3 closed funnel in white mesh material; T23OV - 3 open entrances and a catch chamber; T34LHV- 4 horizontel funnel entrances in white material; T34LVG- 4 vertical funnel entrances in green material.

Conclusion

Catch of lobster per effort were explained by pot type, number of crabs in the pot, soak time, location and fishing period. Pots with open entrances caught more lobster than pots with funnel entrances. Catch of cod per effort was explained by pot type, number of crabs in the pot, nuber of days after fishing started, bait, location and fishing period. The pots that caught the most pots were as for lobster the T23OV a pot in green material with 3 open entrances. Catch of crab per effort was explained by the same variables as for lobster and cod except number of crabs in the pot. All pot types caught the same number of crab.