

Curriculum Vitae: Dr Richard Millner

Fisheries biologist and Advisor

I have over 35 years experience working for the UK government as an advisor on fish stocks, including wide experience of flatfish and inshore fisheries around the UK. I have been a member of ICES working groups on flatfish and demersal stocks in the North Sea and was chairman of the ICES Beam Trawl Survey Working Group. I have carried out MSC assessments and peer reviews on a number of fisheries including Hastings trammel and trawl fisheries for sole, twin-rig trawling for plaice in the North Sea and trawl fisheries for plaice and sole in the North Sea. I have published widely on flatfish fisheries, and the biology and growth of flatfish.

Education

1976 Ph D Biology, University of London

1970 B Sc (Hons) Biology, University of London

Professional Experience

2009 - present Fisheries Consultant

1998 - 2009 Cefas Fisheries Laboratory. Fisheries Advisor with responsibility for flatfish stocks in the North Sea and English Channel and for coordinating biological sampling and fish survey programmes

1977 - 1998 Cefas Fisheries Laboratory. Working on fixed net fisheries, inshore fisheries, flatfish biology, growth and assessment

1974 - 1977 Cefas Fisheries Laboratory. Responsible for assessing fisheries effects of marine gravel extraction.

Provision of Policy and Technical advice

Provide specialist advice to Defra and other national and international bodies on flatfish biology, fisheries and stock status

International Collaboration and representation

Represent Defra and Cefas at national and international scientific meetings

Member ICES North Sea Demersal Working Group (WGNSSK) 1982-2001

Chairman ICES Beam Trawl Study Group

EU Expert Group on Data Collection

Research Interests

Fish stock assessment, population dynamics, fish age determination and impact of climate change on fish growth

MSC Accreditation (assessment and peer review)

Hastings Dover Sole Trawl and Gill-net Fishery

Osprey Trawlers North Sea ICES IVb Twin Rigged Plaice Fishery

Ekofish Group – North Sea (ICES IVb Twin Rigged Otter Trawl Plaice Fishery

Dutch North Sea Plaice and Sole Fishery

Recent Publications

Millner, R., Walsh, S.J and Diaz de Astarloa, J.M. (2005). Atlantic flatfish fisheries. In: The Biology of the Flatfishes (ed by R .N. Gibson), pp. 240-271. Blackwell Science Ltd, Oxford

Pilling, G.M.. **Millner, R.S.**, Easey, M.W., Maxwell, D.L., Tidd , A.N. (2007). Phenology and North Sea cod (*Gadus morhua*): has climate change affected otolith annulus formation and cod growth? J Fish Biol 70, 584-599

Tomás, J., Geffen, A.J., **Millner, R.S.**, Pineiro, C.G and Tserpes, G. (2006). Elemental composition of otolith growth marks in three geographically separated populations of European hake (*Merluccius merluccius*). Marine Biology 148, 1399-1413.

Easey, M and **Millner, R. S.** (2008). Improved methods for the preparation and staining of thin sections of fish otoliths for age determination. Cefas Science Series Technical Report No 143, 14pp.

Burt, G.J and **Millner, R.S.** (2008). Movements of sole in the southern North Sea and eastern English Channel from tagging studies (1955-2004). Cefas Science Series Technical Report No 143, 42pp.

Høie, H., **Millner, R.S.**, McCully, S., Nedreas, K.H., Pilling, G.M and Skadal, J. (2009). Latitudinal differences in the timing of otolith growth: A comparison between the Barents Sea and southern North Sea. Fisheries Research 96, 319-322.

Millner, R.S., Pilling, G.M., McCully, S.R and Høie, H. (2011). Changes in the timing of otolith zone formation in North Sea cod from otolith records: an early indicator of climate-induced temperature stress? Marine Biology: 158, 21-30.

Fablet, R., Pecquerie, L., De Pontual, H., Hoie, H., **Millner, R.**, Mosegaard, H, and Kooijman, S. (2011). Shedding light on fish otolith biomineralization using a bioenergetic approach. Science (in prep).