

Supplementary Table

Information on the hard part used in aging and on age validation for the 19 species routinely aged by the NOAA Northeast Fisheries Science Center. Methods of age validation include length–frequency analysis (LFA) and marginal increment analysis (MIA). Citations are the sources of the validation information.

Species	Scientific name	Hard part	Validated	Method of validation	Citation
Acadian redfish	<i>Sebastes fasciatus</i>	Otolith section	Yes, indirect	LFA vs. annuli	Mayo, 1981
American plaice	<i>Hippoglossoides platessoides</i>	Otolith section	Yes	LFA vs. annuli, bomb radiocarbon	Powles, 1966; Morin et al., 2013
Atlantic cod	<i>Gadus morhua</i>	Baked otolith	Yes, indirect	Microchemistry	Kohler, 1964; Jensen, 1970
Atlantic herring	<i>Clupea harengus</i>	Otolith section	No, limmited	LFA vs. annuli	Watson, 1964; Dery and Chenoweth, 1979
Atlantic mackerel	<i>Scomber scombrus</i>	Otolith section	No		
Atlantic wolffish	<i>Anarhichas lupus</i>	Scale, otolith	No		
Black sea bass	<i>Centropristis striata</i>	Whole otolith	Yes, direct	MIA, Tag-recapture	Robillard et al., 2016; Koob et al., 2021
Butterfish	<i>Peprilus triacanthus</i>	Whole otolith	No		
Haddock	<i>Melanogrammus aeglefinus</i>	Otolith, scale	Yes, direct	Bomb radiocarbon, tag-recapture	Jensen and Wise, 1962; Campana, 1997
Monkfish	<i>Lophious americanus</i>	Vertebrae	No		Bank et al., 2020
Ocean pout	<i>Zoarces americanus</i>	Otolith			
Pollock	<i>Pollachius virens</i>	Otolith section	Yes, direct	MIA, tag-recapture	
Red hake	<i>Urophycis chuss</i>	Otolith section	Yes, indirect	LFA vs. annuli	Dery, 1988

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Supplementary Table (*continued*)

Species	Scientific name	Hard part	Validated	Method of validation	Citation
Silver hake	<i>Merluccius bilinearis</i>	Otolith section	Yes, indirect	LFA vs. annuli	Hunt, 1980
Summer flounder	<i>Paralichthys dentatus</i>	Scale	No	Cross-validated	
Weakfish	<i>Cynoscion regalis</i>	Scale	Yes, indirect	LFA vs. annuli, MIA	Massmann, 1963
Winter flounder	<i>Pseudopleuronectes americanus</i>	Scale	No		
Witch Flounder	<i>Glyptocephalus cynoglossus</i>	Otolith section	No	LFA vs. annuli	
Yellowtail flounder	<i>Limanda ferruginea</i>	Scale	Yes, direct	Tag-recapture, bomb radiocarbon	Lux and Nichy, 1969; Dwyer et al., 2003

Dery, L. M. 1988. Red hake, *Urophycis chuss*. In Age determination methods for Northwest Atlantic species (J. Penttila and L. M. Dery, eds.), p. 49–57. NOAA Tech. Rep. NMFS 72.

Dery, L., and J. Chenoweth. 1979. Recent problems in ageing sea herring from the Gulf of Maine. Natl. Mar. Fish. Serv., Northeast Fish. Sci. Cent. Ref. Doc. 79-38, 7 p. [Available from Northeast Fish. Sci. Cent., Natl. Mar. Fish. Serv., 166 Water St., Woods Hole, MA 02543.]

The full references for other sources can be found in the main article.