

Supplementary Material

Table 1 Overview over annual data availability

YEAR	Acoustic logs	Trawl stations	Length measured fish	Aged fish	Rectangles covered	Missing cruises
1996	1783	105	16613	6115	96	-
1997	1743	104	14188	5334	94	Argos
1998	1943	75	10644	4501	77	Argos
1999	1761	69	5004	3798	90	Walther Herwig
2000	6217	53	4210	1987	114	-
2001	4364	27	3126	1163	90	Walther Herwig
2002	4516	45	2016	1273	96	-
2003	6218	69	3599	2133	130	TFNA
2004	5234	79	6464	2435	110	OXBH
2005	10567	80	10020	3665	161	-
2006	11330	85	7033	2889	149	-
2007	7611	96	11059	2973	125	OXBH
2008	8328	65	10199	2476	132	-
2009	5206	59	9359	2253	135	-
2010	8085	53	5547	1656	156	-
2011	5067	57	7312	1903	147	-
2012	11100	53	6047	1995	153	-
2013	10097	71	7493	2275	156	-
2014	10565	58	6480	1924	147	-
2015	10243	61	6487	2026	148	-
2016	8677	82	8668	2450	139	-
2017	8508	75	8538	2459	138	-
2018	8010	86	10682	3073	141	-
2019	8543	56	7079	2293	144	-
2020	10168	69	7063	2250	124	-

Table 2 Overview over cruises used in the analysis. Vessel names corresponding to vessel codes are found in Table 3

Year	Country	Vessel Code	Cruise
1996	FO	OW2252	9632
1996	IS	TFJA	A6-96
1996	NO	LLZG	1996007

Year	Country	Vessel Code	Cruise
1997	FO	OW2252	9736
1997	IS	TFJA	A7-97
1997	NO	LLZG	1997007
1998	FO	OW2252	9832
1998	IS	TFJA	A5-98
1998	NO	LLZG	1998007
1999	FO	OW2252	9932
1999	IS	TFJA	A5-99
1999	NO	LLZG	1999006
2000	FO	OW2252	32
2000	IS	TFJA	A3-2000
2000	NL	PBVO	BWHTS2000
2000	NO	LLZG	2000006
2001	FO	OW2252	132
2001	NO	LDGJ	2001206
2002	FO	OW2252	232
2002	NO	LLZG	2002007
2003	FO	OW2252	332
2003	NO	LLZG	2003006
2004	DK	OXBH	2004
2004	FO	OW2252	428
2004	IS	TFNA	A7-2004
2004	NO	LMEL	2004109
2005	DK	OXBH	2005
2005	FO	OW2252	532
2005	IS	TFNA	A4-2005
2005	NO	LMEL	2005107
2005	NO	LDGJ	2005206
2006	DK	OXBH	2006
2006	FO	OW2252	632
2006	IS	TFNA	A7-2006
2006	NO	LMEL	2006107
2007	FO	OW2252	732
2007	IS	TFNA	A08-2007
2007	NO	LMEL	2007106
2008	DK	OXBH	308
2008	FO	OW2252	824
2008	IS	TFNA	A6-2008
2008	NO	LMEL	2008103
2008	NO	LJBD	2008834
2009	DK	OXBH	200904

Year	Country	Vessel Code	Cruise
2009	FO	OW2252	932
2009	IS	TFNA	A6-2009
2009	NO	LDGJ	2009206
2010	DK	OXBH	201003
2010	FO	OW2252	1014
2010	IS	TFNA	A7-2010
2010	NO	LMEL	2010107
2011	DK	OXBH	201103
2011	FO	OW2252	1116
2011	IS	TFNA	A5-2011
2011	NO	LMEL	2011106
2012	DK	OXBH	201205
2012	FO	OW2252	1218
2012	IS	TFNA	A5-2012
2012	NO	LDGJ	2012205
2013	DK	OXBH	201305
2013	FO	OW2252	1320
2013	IS	TFNA	A5-2013
2013	NO	LDGJ	2013204
2014	DK	OXBH	201405
2014	FO	OW2252	1416
2014	IS	TFNA	A5-2014
2014	NO	LMEL	2014107
2015	DK	OXBH	201505
2015	FO	OW2252	1516
2015	IS	TFNA	A5-2015
2015	NO	LMEL	2015108
2016	DK	OXBH	201605
2016	FO	OW2252	1618
2016	IS	TFNA	A6-2016
2016	NO	LDGJ	2016205
2016	NO	LFTI	2016857
2017	DK	OXBH	201705
2017	FO	OW2252	1718
2017	IS	TFNA	A7-2017
2017	NO	LMEL	2017107
2018	DK	OXBH	201805
2018	FO	OW2252	1820
2018	IS	TFNA	A7-2018
2018	NO	LMEL	2018105
2019	DK	OXBH	201907
2019	FO	OW2252	1918

Year	Country	Vessel Code	Cruise
2019	IS	TFNA	A5-2019
2019	NO	LMEL	2019107
2020	DK	OXBH	202004
2020	FO	OW2252	2016
2020	IS	TFNA	A5-2020
2020	NO	LMEL	2020106

Table 3 Vessels participating in the IESNS survey

Vessel Code	Vessel Name
LDGJ	Johan Hjort
LFTI	M.Ytterstad
LJBD	Nybo
LLZG/LMEL	G.O.Sars
OW2252	Magnus Heinason
OXBH	Dana
PBVO	Tridens
TFJA/TFNA	Arni Fridriksson

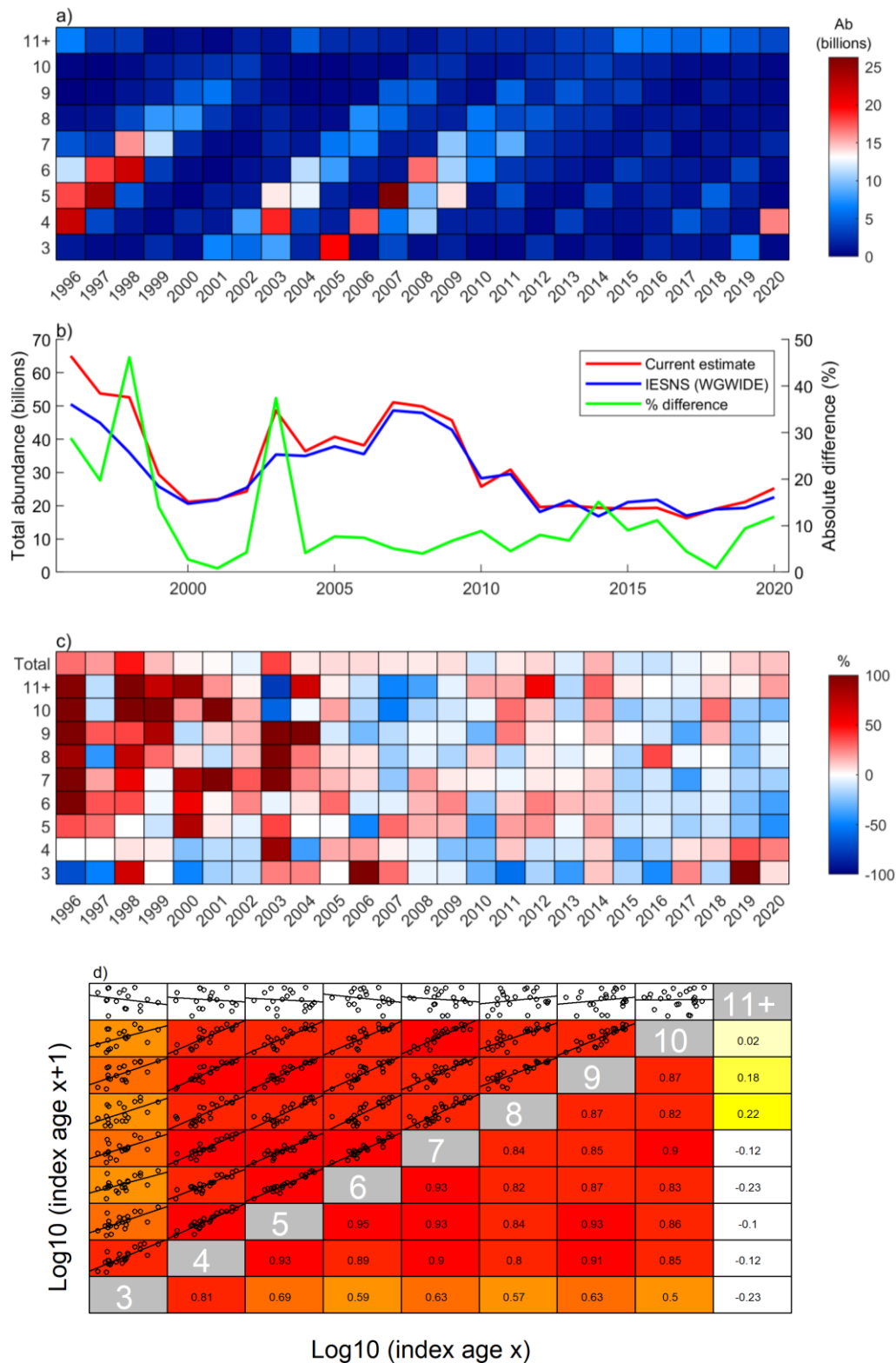


Figure 1 Data check where the data used in the paper are compared with data from the WGWIDE group (ICES 2020, table 4.4.7.3). a) Calculated abundances of age classes 3-11+ in the period 1996-2020 indicated with colour coding. b) Comparison of total abundances. c) Differences (%) in abundances between current calculations and ICES (2020). d) Consistency between the same year classes at consecutive ages in our calculations.



Figure 2 (First page) Distribution of different ages in the stock in May (1996-2008). The thickness of the map frames indicates the strength of each year-class at age 5 (ICES, 2021).



Figure 2 (Second page) Distribution of different ages in the stock in May (2009-2020). The thickness of the map frames indicates the strength of each year-class at age 5 (ICES, 2021). No information about year class strength at age 5 is available for year classes after 2016, and thus no line surrounds this frame.