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The Northern shrimp (*Pandalus borealis*) Stock in Skagerrak and the Norwegian Deep (ICES Divisions IIIa and IVa East)

by

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Abstract

This paper presents the Danish, Swedish, and Norwegian fisheries data used in the annual assessment of the shrimp stock in Skagerrak and the Norwegian Deep. Longterm fluctuations/trends in landings and discards, and trends in national LPUE's are presented and described. Increasing gear efficiency has been taken into account in analyses of the Danish, Swedish and Norwegian LPUEs. During a benchmark meeting in 2013 it was decided to use two analytical models to assess the status of the *Pandalus* stock in Skagerrak and the Norwegian Deep. Logbook data on Swedish, Danish and Norwegian bycatches are presented.

1 The Pandalus borealis stock in Skagerrak and the Norwegian Deep

1.1 The *Pandalus* fisheries in the North Sea and Skagerrak

In the North Sea and Skagerrak three geographically separated aggregations of the northern shrimp (*Pandalus borealis*) are recognised and assessed as three separate stocks (ICES, 1990): 1) the Norwegian Deep-Skagerrak stock which is confined to ICES Divs. IVa east and IIIa, 2) the Fladen Ground stock in ICES Div. IVa west, and 3) the Farn Deep stock in ICES Div. IVb west (Fig. 1). Vessels from Denmark, Sweden, Norway and UK exploit these resources. The Fladen Ground stock was earlier exploited by Danish and UK (Scottish) vessels. In the recent 10 years no *Pandalus* fishery has taken place on the Fladen Ground and only the stock in the Norwegian Deep and Skagerrak has been exploited.

Since 1st February 2013 EU and Norway agreed to implement new technical measures in the *Pandalus* trawl fishery in the Union and Norway's waters of Skagerrak. A sorting grid with maximum bar spacing of 19 mm is now mandatory in all shrimp trawls in Skagerrak, except within the Norwegian 4 nm border. Provided that there are adequate fishing opportunities, it is allowed to use a fish retention device of 120 mm square mesh tunnel at the grid's fish outlet. As there is no minimum landing size for *Pandalus* and a ban on high grading since 2009, this means that there is a ban on discarding. The European Union and Norway have agreed that, for those species (stocks) where a discard ban will be implemented, all catches should be accounted against the quotas concerned. This means that the quota set for the stocks concerned should reflect the total catch and not only the landings.

1.1.1 The Danish *Pandalus* fishery.

Historically, the Danish *Pandalus* fishery has targeted both the shrimp stock in Divs. IVa east and IIIa and the stock on Fladen Ground. In the period 1994 to 1999 the fisheries in the two areas were of about the same size, but since 2000 the Fladen fishery has declined and came to a stop during 2004. Virtually no shrimp landings have been recorded from Fladen since 2004 (Sect. 4). At present, all Danish shrimp landings come from IVa east and IIIa. Since 'at sea' boiled shrimp fetch better prices, an increasing number of Danish vessels now land boiled shrimp. Fig. 2 shows that an increasing fraction of the Danish shrimp catches since 2000 has been landed as 'sea boiled' shrimp with maximums of approx. 44% in 2010 and 28% in 2012. The majority of 'sea boiled' shrimp are landed in Swedish ports, where the demand is high. Minor amounts have also been landed in Norwegian ports. New analyses for the period 1987 to 2014 of the Danish logbook data on catch and corresponding effort, vessel size from the vessel register, and economical data of landings on single trip basis have been made. Results show that the number of vessels participating in the *Pandalus* fishery has decreased from 138 vessels in 1987 to only 10 vessels in 2014 (Fig. 3). Following a large decline from 1987 to 2006, fleet size seems to have stabilized at around 10-14 larger vessels.

Gear development in the Danish shrimp fishery and its influence on effort.

The technological improvements of the fishing fleet and their implication for the effective effort have been described in SCR Doc. 08/75 (2009). The effective effort by vessels has increased considerably. Following this development the nominal LPUE is standardized accordingly Since 2005, an increasing number of vessels have started using twin trawl, which today is the most common gear deployed. A Nordmøre grid is mandatory in the fishery but when the vessels quota situation allows it, the grid trawl is equipped with a large square mesh tunnel in order to retain large fish.

1.1.2 The Norwegian *Pandalus* fishery (SCR Doc. 15/057)

1.1.3 The Swedish *Pandalus* fishery

In 2014, a total of 62 trawlers reported landings of *Pandalus* (\geq 100kg) in the Swedish logbooks. Of these, 33 landed more than 10 t *Pandalus* and can be considered specialised in this fishery. The trend in number of *Pandalus* trawlers from 1995 to 2014 is shown in Fig. 4.

The size of the vessels ranges between 10-34 m with an average of 21 m. GRT varies from 14 to 343, with an average of 113 GRT. The average engine effect is around 401 kW (92-738 kW). The larger trawlers are normally fishing in the eastern and central part of Skagerrak. The smaller trawlers are mostly fishing in the Swedish coastal zone inside a 'trawling border' where special regulations apply for the use of trawls: Trawling is in these areas restricted to waters deeper than 60 m and there are special limits in the length of ground rope and in the size of the trawl and trawl doors. Furthermore, the trawls to be used inside this border must be equipped with a species selective Nordmøre grid of 19 mm bar space and an unblocked fish opening in the trawl roof. This has resulted in very clean landings from these trawls (about 98% *Pandalus*). The Nordmøre grid is since 1st February 2013 legislated in all of Skagerrak. If fish quotas allow, it is legal to use a fish retention device (a 120 mm square mesh tunnel) in order to retain large fish. Since 2011 this "grid and tunnel" trawl can be distinguished in the Swedish logbooks. Table 5 shows the fish bycatch in the different Swedish *Pandalus* trawls.

The *Pandalus* trawl with grid can be distinguished from other shrimp trawls in the logbooks back to 1990. The landings from this gear have shown an increasing trend from 9% of total landings in 2002 to 100 % in 2014 (Fig. 6).

The Swedish specialized shrimp fleet ($\geq 10 \text{ t/yr}$) shows a slightly decreasing trend in number and has been at around 40-50 vessels during the last decade according to logbooks (Fig. 4). There has not been any major change in single trawl size or trawl design until recent years according to the Swedish net manufacturer, but during the last 7 years the twin trawlers have increased their landings from 7 to around 50% of total Swedish

Pandalus landings. These twin trawls have 40- 80% higher catch rate compared with single trawls (Fig. 5). Swedish *Pandalus* landings (1990-2014) by trawl gear are given in Fig. 6.

The Swedish quota has been limiting the Swedish *Pandalus* fishery and in order to distribute landings over the year the fishers have voluntarily introduced rations per fisher per week. The rations have sometimes resulted in high grading of the catch, i.e. discarding less valuable smaller *Pandalus* (16% of the price of boiled shrimp) to increase the proportion of the more valuable boiled shrimp in the individual landings ration. Since 2013, the Swedish Agency for Marine and Water Management took over the ration allocation from the Swedish fishers organisation and a monthly allocation for each vessel (with permission to fish *Pandalus*) was decided. The monthly rations are based on historical landings (2005-2010) and are not transferable between months. The total Swedish landings separated into fresh and boiled, and the proportion of boiled *Pandalus* from 1963 to 2014 is presented in Fig. 7.

During the years 1963 to 1983 the Swedish National Board of Fisheries conducted an inquire investigation to an average of 190 shrimp trawling trips per year. The inquiry gave information of kg landed and discarded shrimp, trawling duration, location, trawl size, etc. This information on yearly lpue has then been used to estimate the total Swedish un-standardized effort given the total landings (Fig. 8). Corresponding information on effort and lpue for 1984 to 2014 comes from the logbooks (Figs. 9 and 10).

There are two different Swedish markets for *Pandalus*, resulting in two different kinds of landings: high value large shrimp boiled onboard and smaller low value shrimp landed raw to the industry for further processing. The shrimp are sorted twice, first by a sieve of 10 mm bar space meaning an L50 of approximately 20 mm carapace length and second by a 7.5-8 mm sieve to get the low quality part. Shrimp going through the 7.5 mm sieve are discarded. The high quality sizes are thus 3+ age group (mostly females) and the low quality sizes < 20 mm CL are mainly males less than 3 years old. The long term trends with un-standardised lpue for these categories are shown in Fig. 10.

Swedish log book data include information per vessel since 1995. Standardization of lpue is carried out from 1996 to 2014 as vessel data started to be more completely reported from 1996 onwards.

log(LPUE) = YEAR * MONTH + GEAR_CODE + NUMBER_OF_GEARS + a*kW + error

where a is the linear coefficient of the relationship between LPUE and kW. Gear code is trawl 1) without grid, 2) with grid (unblocked fish opening). Number of gears is either single or twin trawl. The Swedish standardized lpue is presented together with the Norwegian and Danish in Fig. 11.

1.2 Landings, catch and effort data (IVa East and IIIa)

1.2.1 Landings

Landings, as officially reported to ICES, are shown in Table 1 by area (Division IIIa and Sub-area IV). In Skagerrak, the 2014 landings increased compared with the 2013 landings, but are still on a low level. In Subarea IV landings have decreased since 1995 and the 2013 landings are the lowest in the whole time series back to 1970. Table 2 presents the landings and estimated catch for the assessment unit 'Skagerrak and the Norwegian Deep' (ICES Div. IIIa and Div. IVa East). Total landings in 2014 were 9 953 t, which is about 1 600 t higher than in 2013.

Landings from Norway, Denmark and Sweden consist of a fraction of larger shrimp that are boiled on board and a remaining portion of smaller shrimp landed fresh. Official landings and logbook data give landed weight as a mixture of raw and boiled shrimp, but these can be separated in sale slip data. The shrimp lose weight when boiled; therefore the boiled landings figures have been corrected with a conversion factor of 1.13 to obtain fresh weight for the years where sufficient information is available (Table 2). The amount added to the Swedish landings (all years) has ranged between 100 and 200 t, while the amount added to the Norwegian landings for the last fourteen years has ranged between 230 and 550 t. The Danish landings figures corresponding to boiled shrimp landed in Swedish ports have been corrected. Danish, Swedish and Norwegian landings in 2013 consisted of 28, 56 and 43% boiled shrimps, respectively.

1.2.2 Discards

An overview of the current practices of discarding of shrimp was given in SCR Doc. 13/68. The updated estimated Swedish *Pandalus* discards and landings for 2008-2014 is shown in Fig. 12 and the last five years Danish estimates of landings and discard are provided in Fig. 13, while the updated Norwegian discards per quarter and annual are given in SCR Doc. 15/057.

1.2.3 Effort and LPUE

Annual national figures for effort and landings per unit of effort (LPUE) based on logbook records are shown in Table 3. The Danish, Norwegian and Swedish standardised LPUEs show the same trend since 2005: Increasing LPUEs up to 2007, followed by a decreasing trend which stabilized at a low level, but show an increasing trend in 2013 and 1014 (Fig. 11). The standardisation of the Danish effort data has taken development both in vessel size and gear into account (SCR Doc. 08/75). The Swedish fishery has mainly used singe trawls, except for the six most recent years when twin trawls has increased (Fig. 6). The Swedish LPUE is standardized according to engine power and gear from 1995. The information in Norwegian logbooks from Divs. IIIa and IVa east on the use of trawl gear is not correct. In order to include gear type (single and twin trawl) as a variable in the standardisation of the Norwegian LPUE, the incorrect recordings of gear type in the log books were corrected based on interviews with ship owners (SCR Doc. 11/68). The Norwegian LPUE indices have thus been standardised according to area, month, gear, and vessel for the years 2000-2014. Further information on the Norwegian logbook data is given in SCR Doc. 15/057.

In order to obtain the same effort unit for all three countries, i.e. 'fishing hours', the Danish unit 'fishing days' was converted to 'hours' on basis of functional regressions between Danish-Norwegian and Danish-Swedish LPUE. These two regression coefficients were averaged to get Danish kg/hr as well as the total Danish effort in hours (unit=1000 hours, Table 3).

1.3 Biological sampling of landings and catches

1.3.1 Sampling frequency and intensity

Information on the size and subsequently age distribution of the landings are obtained by sampling the landings and/or catches. The biological samples also provide information on sex distribution and maturity.

National sampling effort is presented in Table 4. The overall sampling level in 2014 was around 16 kg (3538 specimens) per 1000 t landed. An increasing amount of the Swedish and Danish samples are taken as at-sea samples during fishing trips. In this way samples of discards and information on discarding are also provided. Notice, that in 2009 to 2014, according to mutual agreement between Denmark and Sweden, some samples from Danish shrimp landings in Sweden has been included in the Swedish samples.

1.4 Trawl survey data (SCR Doc. 15/058)

1.5 Assessment of the *Pandalus* stock in Divisons IIIa and IVa East.

1.5.1 State of Stock (SCS15-13 NIPAG Report)

After an ICES inter benchmark meeting in 2013 (ICES 2013), it was decided to use two analytical assessment models for the assessment of the state of the *Pandalus* stock in IIIa and Iva East; a stochastic length-based assessment model (SCR 12-061) and a Bayesian surplus production model (SCR 12/066 and SCR 13/070).

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Both the length-based and the biomass dynamic models gave generally similar results (except for the recent period) and were considered capable of forming the basis for the stock assessment. The length-based analytical assessment model that was adopted at the 2013 benchmark meeting was not fully operational for providing advice for the assessment and the surplus production model was used instead.

Danish, Swedish and Norwegian landings and effort data from logbooks have been analysed (SCR Doc. 08/75; 13/66). There was an increasing trend in all three standardized LPUE series from 2000 to 2007 followed by a decreasing trend until 2010. The indices then stabilized at a low level, but have shown an increasing trend in 2013 and 2014 (Fig. 11).

2 Genetic investigations of northern shrimp

Results from the two research projects focusing on the genetic stock structure of northern shrimp in respectively the whole North Atlantic (POPBOREALIS) and the Skagerrak/North Sea area ("Sustainable shrimp fishing in Skagerrak"), were presented to the 2012 NIPAG working group. The results indicate that shrimp in some areas, especially around Iceland, Jan Mayen, in Gulf of Maine, and on Flemish Cap, constitute isolated populations, while shrimp in other areas like the Barents Sea and the eastern coast of Canada constitute genetic homogeneous populations. The genetic differences between samples within Skagerrak and the North Sea are small compared with the differences observed in the North Atlantic. There is some weak, but significant, genetic structure in the area primarily associated with the fjords. Shrimp in Skagerrak and the Norwegian Deep are considered to belong to one single stock for assessment purposes.

By-catch in the Pandalus fisheries in Subarea IV and Division IIIa

In recent years there has been an increasing focus on (mixed) fisheries with by-catches of species subject to recovery plans or under special surveillance. The fisheries for *Pandalus* in the North Sea area cannot be classified as mixed fisheries as for instance some of the fisheries for *Nephrops*. The current by-catch regulations in force for the gears used in the fisheries for *Pandalus* restrict the amounts of by-catch. Nevertheless several valuable fish species, e.g. cod, witch flounder and anglerfish, are landed as by-catch. WGPAND has since the 1980s regularly compiled and presented relevant information on by-catch in the WG reports.

Tables 7 A - G give for the three most recent years the available Danish, Norwegian and Swedish data on bycatch of the main species in the *Pandalus* fisheries landed for human consumption (h.c.). In some years significant quantities of Norway pout and blue whiting have also been recorded. For Denmark and Sweden the data are from log book records, and are only recorded landings, i.e. not the discarded by-catch. Both the Danish and Swedish log book records cover nearly all the recorded *Pandalus* landings. The Norwegian data come from the landings statistics.

Tables 7 A - G also give cod percentage of *Pandalus* landings. It is believed that this is a better estimator than % of total catch, since logbook recordings probably not always are consistent in recordings of e.g. Norway pout and/or blue whiting. Notice that for Skagerrak the percentages of landed total h.c. by-catch are similar for all 3 countries (excluding trawls with selective grids). Rough estimates give magnitudes of around 500 t of cod landed annually from the *Pandalus* fisheries in this area. Notice that trawls equipped with a selective grid, judging from the logbook records of landings from this gear type, seem to be very efficient in reducing by-catch (Table 7C).

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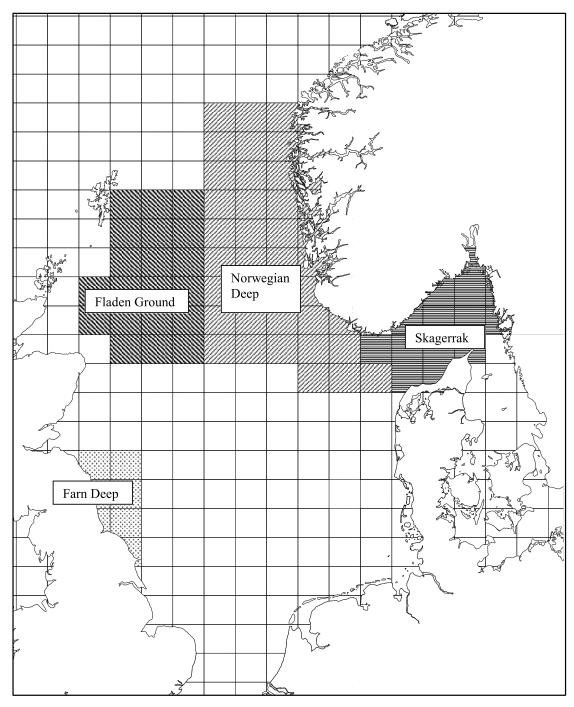


Fig.1. The distribution of the *Pandalus* stocks in the North Sea area as defined by the ICES squares.

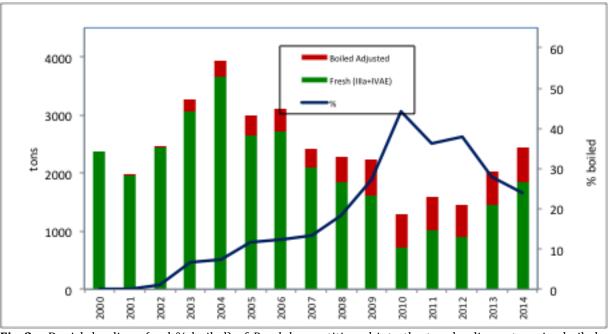


Fig. 2. Danish landings (and % boiled) of *Pandalus* partitioned into the two landing categories boiled and fresh, 2000 to 2014.

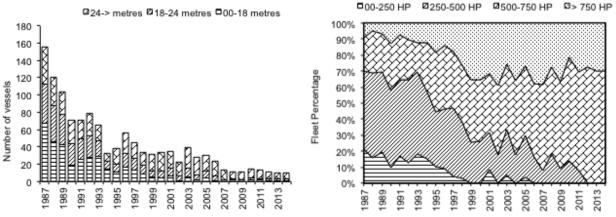


Fig. 3. Trend in numbers (left) and engine power (right) by size groups of Danish *Pandalus* trawlers from 1987 to 2014.

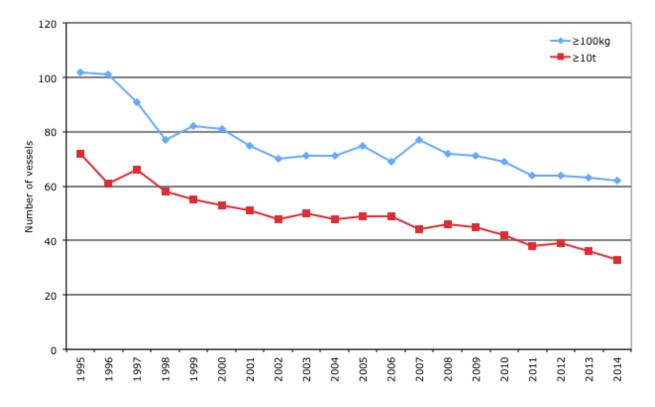


Fig. 4. Number of total Swedish *Pandalus* vessels during 1995 to 2014. Vessels landing ≥10 tonnes are considered as specialised *Pandalus* trawlers.

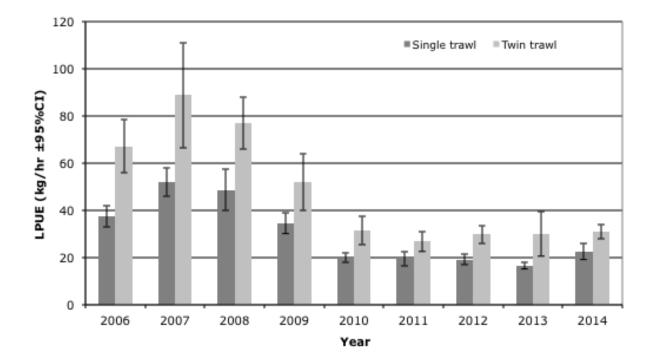


Fig. 5. LPUE for Swedish single and twin trawlers during 2006 - 2014. Error bars are 95% confidence interval.

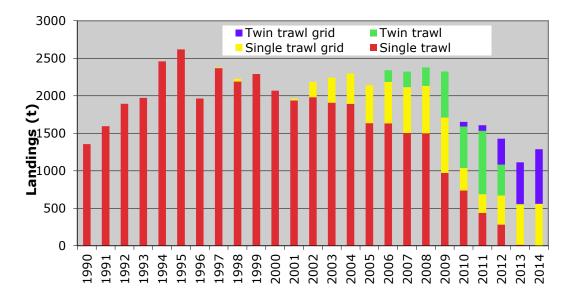


Fig. 6. Swedish *Pandalus* logbook landings per trawl type 1990-2014.

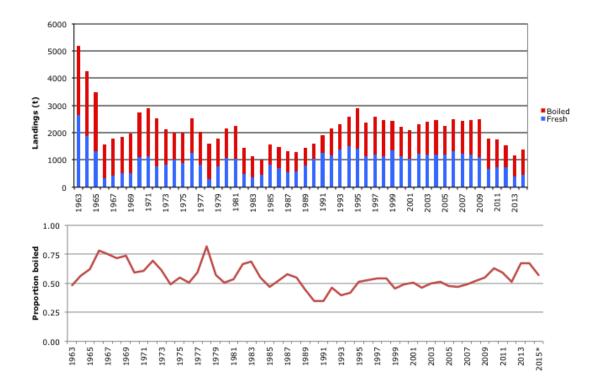


Fig. 7. Total Swedish landings 1963 to 2014 separated into boiled and fresh fractions (upper graph) and proportion of boiled *Pandalus* (lower graph).

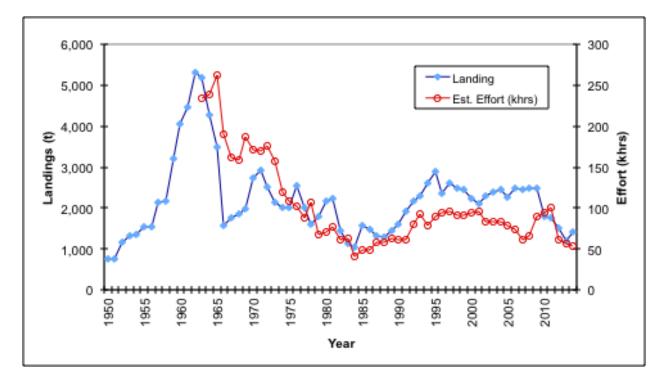


Fig. 8. Swedish yearly landings from IIIa and IVa east during 1950 to 2014 and estimated unstandardized effort during 1963 to 1994. Estimated effort 1995 to 2014 is based on the standardized lpue for this period.

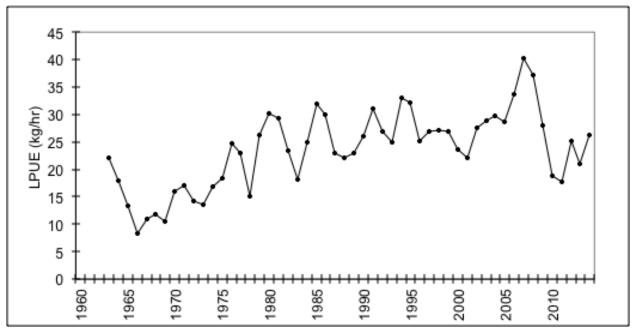


Fig. 9. Swedish unstandardised lpue (kg/hour) for areas IIIa and IVa east during 1963 to 1994 and standardized lpue for the years 1995 to 2014.

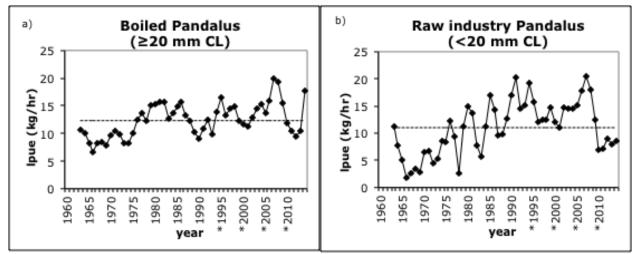


Fig. 10. Unstandardised Swedish lpue for areas IIIa and IVa east during 1963 to 1994 and standardized lpue (1995 to 2014) partitioned into a): large shimps (≥20 mm) and b): small shrimps. Dotted lines show averages.

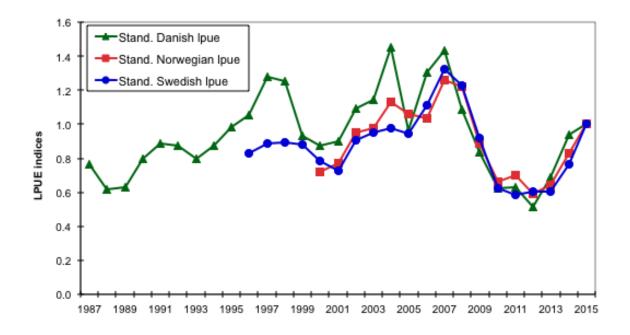


Fig. 11. Comparison of Danish, Norwegian and Swedish trends in standardised LPUE.

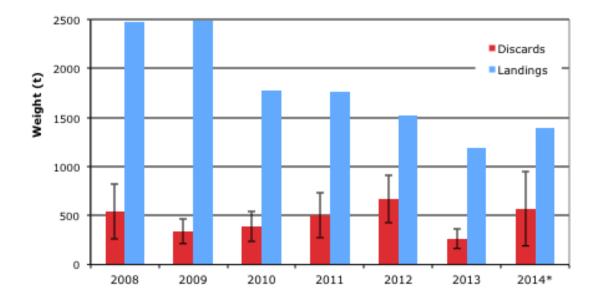


Fig. 12. Estimated Swedish Pandalus discards and landings 2008-2014. Error bars are 95% CI.

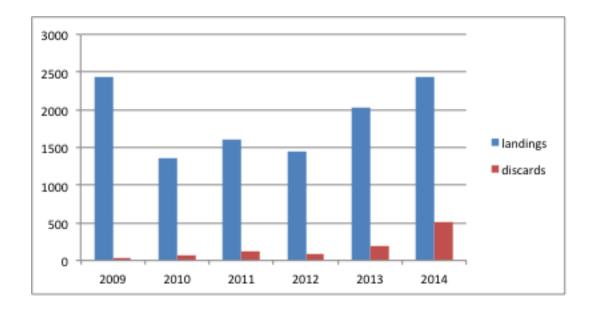


Fig. 13. Estimated Dansih Pandalus discards and landings 2009-2014.

	L. Nominal la d to ICES.	indings (to	nnes) of Par	ndalus bo	orealis in ICE	S Division	IIIa and Su	barea IV as	s officially	
	Division III	а			Sub-area IV	1				
Year	Denmark	Norway	Sweden †	Total	Denmark	Norway	Sweden	UK	UK	Total
								(Engl.)*	(Scotl.)*	
1970	757	982	2740	4479	3460	1107		14	100	4681
1971	834	1392	2906	5132	3572	1265			438	5275
1972	773	1123	2524	4420	2448	1216		692	187	4543
1973	716	1415	2130	4261	196	931		1021	163	2311
1974	475	1186	2003	3664	337	767		50	432	1586
1975	743	1463	1740	3946	1392	604	261		525	2782
1976	865	2541	2212	5618	1861	1051	136	186	2006	5240
1977	763	2167	1895	4825	782	960	124	265	1723	3854
1978	757	1841	1529	4127	1592	692	78	98	2044	4504
1979	973	2489	1752	5214	962	594	34	238	309	2137
1980	1679	3498	2121	7298	1273	1140	38	203	406	3060
1981	2593	3753	2210	8556	719	1435	31	1	341	2527
1982	2985	3877	1421	8283	1069	1545	92		354	3060
1983	1571	3722	988	6281	5724	1657	112	65	1836	9394
1984	1717	3509	933	6159	4638	1274	120	277	25	6334
1985	4105	4772	1474	10351	4582	1785	128	415	1347	8257
1986	4102	4811	1357	10270	4288	1681	157	458	358	6942
1987	3466	5198	1085	9749	9642	3145	252	526	774	14339
1988	2246	3047	1075	6368	2656	4615	220	489	109	8108
1989	2527	3156	1304	6987	3298	3418	122	364	579	7802
1990	2277	3006	1471	6754	2080	3146	137	305	365	6084
1991	3258	3441	1747	8446	747	2714	161	130	54	3806
1992	3293	4257	2057	9607	1880	2945	147	69	116	5157
1993	2451	4089	2133	8673	1985	3449	167	29	516	6146
1994	2001	4388	2553	8942	1362	2427	176	41	35	4041
1995	2421	5181	2512	10114	4698	2879	166	217	1324	9284
1996	3664	5157	1985	10806	4063	2785	82	97	1899	8926
1997	3617	5461	2281	11359	3314	3115	316	52	365	7162
1998	2933	6515	2086	11534	3297	3192	187	55	1364	8095
1999	1398	3985	2114	7497	1679	2763	182	46	479	5149
2000	1898	3554	1890	7342	1956	2562	184	0	378	5080
2001	1186	2959	1958	6103	2030	3955	154	0	465	6604
2001	1967	3709	2044	7720	1647	3622	143	0	70	5482
2002	2612	3736	2098	8446	1631	3995	144	0	0	5770
2003	3044	4638	2152	9834	884	4364	147	0	0	5391
2005	2485	4419	1996	8900	477	4087	148	0	0	4712
2005	2837	5177	2235	10249	224	3037	140	0	0	3402
2000	2285	5928	2164	10217	95	2307	160	0	0	2562
2008	2205	5744	2246	10145	104	2039	114	0	0	2257
2000	1931	4268	2157	8356	224	1672	169	0	0	2065
2009	1119	2598	1511	5228	109	1710	109	0	0	1960
2010	1274	2693	1498	5465	260	1710	141	0	0	2176
2011	1274	3565	1498	6101	164	1007	143	0	0	1294
2012	1227	3775	1309	6708	36	1134	125	0	0	1294
2013	2317	4498	1183	7998	48	1154	105	0	0	1275

Group.	1	-		ES Divs. IIIa (Skage					
					Est. Swedish	Est. Norw	Est. Danish		
Year	Denmark	Norway*)	Sweden *)	Total landings	discards	discards	discards	TAC	Est. catch
1970	1102	1729	2742	5573					
1971	1190	2486	2906	6582					
1972	1017	2477	2524	6018					
1973	755	2333	2130	5218					
1974	530	1809	2003	4342					
1975	817	2339	2003	5159					
1976	1204	3348	2529	7081					
1977	1120	3004	2019	6143					
1978	1459	2440	1609	5508					
1979	1062	3040	1787	5889					
1980	1678	4562	2159	8399					
1981	2593	5187	2241	10021					
1982	3766	5422	1450	10638					
1983	1804	5370	1136	8310					
1984	1800	4770	1022	7592					
1985	4498	6550	1571	12619					
1986	4866	6492	1463	12821					
1987	4488	8343	1322	14153					
1988	3240	7659	1278	12177					
1989	3242	6574	1433	11249					
1990	2479	6152	1608	10239					
1991	3583	6104	1908	11595					
1992	3725	7202	2154	13081				15000	
1993	2915	7538	2300	12753				15000	
1994	2134	6814	2601	11549				18000	
1995	2460	8019	2882	13361				16000	
1996	3868	7910	2371	14149				15000	
1997	3909	8568	2597	15074				15000	
1998	3330	9704	2469	15504				18800	
1999	2072	6737	2445	11254				18800	
2000	2371	6442	2225	11038				13000	
2001	1954	7266	2108	11328				14500	
2002	2470	7703	2301	12474				14500	
2003	3270	8177	2389	13836				14500	
2004	3944	9544	2464	15952				15690	
2005	2992	8958	2257	14207				15600	
2006	3111	8669	2488	14268				16200	
2007	2422	8685	2445	13552				16600	
2008	2274	8261	2479	13014	540			16300	1355
2009	2224	6364	2483	11071	337		41	16600	1152
2009	1301	4672	1781	7754	386		60	14558	831
2010	1601	4801	1761	8170	500		129	11928	903
2011	1454	4796	1700	7771	683		92	10115	879
2012	2026	5162	1191	8379	265		185	9500	922
2013	2020	6124	1397	9953	572		526	10900	1234
	•			(2000-14) have b					120-

	National LPU	JE and tot	al effort. Pa	ndalus in I	CES Divs. I	lla and
IVa east.	Denmark		Norway		Sweden	
	LPUE	effort	LPUE	effort	LPUE	effort
Year	kg/hr	Khrs	kg/hr	Khrs	kg/hr	Khrs
1987	20	219	36	230	23	57
1988	14	230	31	251	22	57
1989	14	226	23	273	23	63
1990	24	103	26	232	26	58
1991	31	116	30	206	31	61
1992	31	121	35	204	27	80
1993	25	119	31	243	25	91
1994	33	64	31	218	33	82
1995	43	57	35	255	39	76
1996	46	84	37	214	32	74
1997	73	54	42	212	33	78
1998	68	49	44	219	34	73
1999	39	54	32	219	34	72
2000	38	63	34	192	30	75
2001	37	53	34	214	29	74
2002	53	47	44	176	35	65
2003	56	58	48	171	33	72
2004	85	46	55	174	33	74
2005	45	66	52	173	31	68
2006	56	55	50	174	36	65
2007	65	37	65	134	47	52
2008	59	38	65	127	43	58
2009	46	49	48	132	35	71
2010	31	41	34	136	26	69
2011	33	48	39	124	27	67
2012	30	49	34	140	25	60
2013	43	47	37	138	21	57
2014	54	45	50	122	26	53

Denmark*)	Londingo			Numbers		
Quarter	Landings (tons)	samples	Weight (kg)	measured-sexed		
1	273	3	7.9	1899		
2	562	2	4.5	1065		
3	927	3	8.5	1862		
4	670	3	9.4	1938		
Total	2432	11	30.5	6764		
1000			0010	0.01		
Norway				Numbers		
	Landings					
Quarter	(tons)	samples	Weight (kg)	measured-sexed		
1	1538	20	24.1	5289		
2	1326	19	19.6	5101		
3	1897	12	14.4	3635		
4	1362	14	17.9	4001		
Total	6123	65	76.0	18026		
Sweden				Numbers		
Sweden	Landings			rumbers		
Quarter	(tons)	samples	Weight (kg)	measured-sexed		
1	304	4	11.1	2302		
2	364	5	19.9	3692		
3	347	3	8.7	1890		
4	202					
m · 1	382	3	12.2	2535		
Total	382 1397	3 15	12.2 51.9	2535 10419		
				10419		
Total	1397				Sampling per 1	000 ton landed
Total	1397 Landings	15	51.9	10419 Numbers		
Total Quarter	1397 Landings (tons)	15 samples	51.9 Weight (kg)	10419 Numbers measured-sexed	Weight	Numbers
Total Quarter 1	1397 Landings (tons) 2115	15 samples 27	51.9 Weight (kg) 43.1	10419 Numbers measured-sexed 9490	Weight 20.4	Numbers 4486.7
Total Quarter 1 2	1397 Landings (tons) 2115 2251	15 samples 27 26	51.9 Weight (kg) 43.1 44.0	10419 Numbers measured-sexed 9490 9858	Weight 20.4 19.6	Numbers 4486.7 4378.6
Total Quarter 1 2 3	1397 Landings (tons) 2115 2251 3171	15 samples 27 26 18	51.9 Weight (kg) 43.1 44.0 31.6	10419 Numbers measured-sexed 9490 9858 7387	Weight 20.4 19.6 10.0	Numbers 4486.7 4378.6 2329.7
Total Quarter 1 2	1397 Landings (tons) 2115 2251	15 samples 27 26	51.9 Weight (kg) 43.1 44.0	10419 Numbers measured-sexed 9490 9858	Weight 20.4 19.6	Numbers 4486.7 4378.6

Table 4. National sampling effort of commercial catches in 2014. Pandalus in ICES Divs. IIIa and IVa east.

*) Following a Danish Swedish agreement, samples from Danish shrimp landings in Sweden in 2 and 3 q have been included in the Swedish samples.

A: Skagerrak, Sub-	div. IIIA.	Danish	UU DUUK	records.	Ondertai		 Norwegian Deep 	s, sub-ur		Damon	log boo	k record	13
Species:	2012 Total	% of total	2013 Total	% of total	2014 Total	% of total	Species:	2012 Total	% of total	2013 Total	% of total	2014 Total	% of tot
species.	IOtal	catch	TOLA	catch	Iotai	catch	Species.	Total	catch	Total	catch	Iotai	catch
Blue Whiting	0.0	0.0	0.0	0.0	0.0	0.0	Blue Whiting	0.0	0.0	0.0	0.0	0.0	0
Norway lobster	0.2	0.0	0.1	0.0	0.3	0.2	Norway lobster	0.2	0.1	0.0	0.0	0.1	0
Pandalus	1222.4	81.4	1704.2	83.5	2132.4	73.8	Pandalus	171.5	80.9	36.3	66.6	44.3	0
Angler fish	22.8	1.5	18.4	0.9	20.2	0.8	Angler fish	4.4	2.1	1.0	1.9	0.5	0
Whiting	0.4	0.0	0.0	0.0	0.1	0.0	Whiting	0.0	0.0	0.0	0.0	0.0	0
Haddock	15.4	1.0	17.2	0.8	16.7	1.0	Haddock	0.2	0.1	0.8	1.5	0.6	0
Hake	5.2	0.3	1.7	0.0	2.5	0.3	Hake	3.8	I	0.0	0.1	0.0	0
	2.4	0.3	1						1.8				
Ling			6.6	0.3	0.3	0.1	Ling	2.4	1.1	1.4	2.5	0.1	0
Saithe	137.6	9.2	176.6	8.7	158.6	17.4	Saithe	19.9	9.4	12.0	22.0	10.5	0
Witch flounder	19.2	1.3	24.5	1.2	35.3	0.6	Witch flounder	0.5	0.2	0.2	0.4	0.4	C
Norway pout	0.0	0.0	0.0	0.0	0.0	0.0	Norway pout	0.0	0.0	0.0	0.0	0.0	(
Cod	66.3	4.4	81.0	4.0	105.8	4.2	Cod	6.5	3.1	1.7	3.0	2.5	(
Other market fish	10.5	0.7	9.5	0.5	16.4	1.6	Other market fish	2.5	1.2	1.1	2.0	0.8	(
Cod as % of shrimp:		5.4		4.8		5.0	Cod as % of shrimp:		3.8		4.6		
B: Skagerrak, Sub-	div. IIIA.	Swedisł	ı log boo	k record	s (no grid	(k	F: Norwegian Deep	os, Sub-div	v. IVA Eas	Norweg	lian sale	s slips o	lata
	2012		2013		2014	<i></i>		2012		2013		2014	
Species:	Total	% of total	Total	% of total	Total	% of total	Species:	Total	% of total	Total	% of total	Total	% of to
		catch		catch		catch			catch		catch		catcl
Blue Whiting	0.0	0.0	0.0	0.0	0.0	0.0	Blue Whiting	0.0	0.0				
Norway lobster	6.4	0.6	0.3	0.0	0.0	0.0	Norway lobster	8.5	0.7	6.5	0.5	5.2	
Pandalus	694.4	60.2	21.8	56.5	1.0	87.9	Pandalus	1003.9	77.1	1134.5	81.9	1250.2	7
Angler fish	20.0	1.7	0.6	1.6	0.0	0.0	Angler fish	39.2	3.0	32.1	2.3	34.6	
Whiting	2.7	0.2	0.1	0.2	0.0	0.0	Whiting	1.3	0.1	1.1	0.1	1.3	
Haddock	45.5	3.9	1.6	4.2	0.0	0.9	Haddock	8.0	0.6	8.6	0.6	15.3	
Hake	5.1	0.4	0.1	0.3	0.0	0.0	Hake	20.2	1.6	7.3	0.5	5.8	
ling	8.3	0.7	0.4	1.1	0.0	0.0	Ling	31.1	2.4	24.1	1.7	22.2	
Saithe	212.1	18.4	8.2	21.3	0.0	0.0	Saithe	92.7	7.1	71.8	5.2	138.2	
Nitch flounder	25.3	2.2	0.9	2.2	0.0	0.0	Witch flounder	1.0	0.1	0.7	0.1	0.6	
inton noundor		0.2	0.0	0.1	0.0	0.0	Norway pout	0.0	0.0		0.1	0.0	
Nonway pout			0.0	0.1	0.0	0.0	Norway pour	0.0	0.0				
	2.2			40.0		40.4		50.0			4.0	50.5	
Cod	103.2	8.9	3.9	10.0	0.1	10.1	Cod	50.9	3.9	60.0	4.3	56.5	
Cod		8.9 2.5	3.9 0.6	1.7	0.1 0.0	1.1	Cod Other market fish	50.9 46.0	3.5	60.0 38.1	4.3 2.7	56.5 35.7	
Cod Other market fish Cod as % of shrimp: C:	103.2 29.0	8.9 2.5 14.9	0.6	1.7 17.8	0.0	1.1 11.5	Other market fish Cod as % of shrimp: G:	46.0	3.5 5.1	38.1	2.7 5.3	35.7	2
Cod Other market fish Cod as % of shrimp: C:	103.2 29.0	8.9 2.5 14.9	0.6	1.7 17.8	0.0	1.1 11.5	Other market fish Cod as % of shrimp:	46.0	3.5	38.1	2.7 5.3	35.7	3
Norway pout Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species:	103.2 29.0 -div. IIIA. 2012 Total	8.9 2.5 14.9 Swedist % of total catch	0.6 log boo 2013 Total	1.7 17.8 k record % of total catch	0.0 s (sorting 2014 Total	1.1 11.5 g grid) % of total catch	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species:	46.0 div. IIIA. 2012 Total	3.5 5.1 Norwegia % of total catch	38.1	2.7 5.3	35.7 ta	2
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting	103.2 29.0 div. IIIA. 2012 Total 0.0	8.9 2.5 14.9 Swedish % of total catch 0.0	0.6 log boo 2013 Total 0.0	1.7 17.8 k record % of total catch 0.0	0.0 s (sorting 2014 Total 0.0	1.1 11.5 g grid) % of total catch 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting	46.0 div. IIIA. 2012 Total 0.0	3.5 5.1 Norwegia % of total catch 0.0	38.1 In sales 2013 Total	2.7 5.3 slips da % of total catch	35.7 ta 2014 Total	% of to catch
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting	103.2 29.0 -div. IIIA. 2012 Total	8.9 2.5 14.9 Swedist % of total catch	0.6 log boo 2013 Total	1.7 17.8 k record % of total catch	0.0 s (sorting 2014 Total	1.1 11.5 g grid) % of total catch	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species:	46.0 div. IIIA. 2012 Total	3.5 5.1 Norwegia % of total catch	38.1	2.7 5.3 slips da % of total	35.7 ta 2014	2 2 % of to
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster	103.2 29.0 div. IIIA. 2012 Total 0.0	8.9 2.5 14.9 Swedish % of total catch 0.0	0.6 log boo 2013 Total 0.0	1.7 17.8 k record % of total catch 0.0	0.0 s (sorting 2014 Total 0.0	1.1 11.5 g grid) % of total catch 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting	46.0 div. IIIA. 2012 Total 0.0	3.5 5.1 Norwegia % of total catch 0.0	38.1 In sales 2013 Total	2.7 5.3 slips da % of total catch	35.7 ta 2014 Total	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus	103.2 29.0 div. IIIA. 2012 Total 0.0 2.8	8.9 2.5 14.9 Swedish % of total catch 0.0 0.6	0.6 10g boo 2013 Total 0.0 4.6	1.7 17.8 k record % of total catch 0.0 0.8	0.0 s (sorting 2014 Total 0.0 4.2	1.1 11.5 g grid) % of total catch 0.0 0.8	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster	46.0 div. IIIA. 2012 Total 0.0 34.5	3.5 5.1 Norwegia % of total catch 0.0 0.8	38.1 In sales 2013 Total 21.7	2.7 5.3 slips da % of total catch 0.5	35.7 ta 2014 Total 20.5	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish	103.2 29.0 -div. IIIA. 2012 Total 0.0 2.8 458.3	8.9 2.5 14.9 Swedish % of total catch 0.0 0.6 95.1 0.2	0.6 2013 Total 0.0 4.6 540.9 0.1	1.7 17.8 k record % of total catch 0.0 0.8 98.3 0.0	0.0 s (sorting 2014 Total 0.0 4.2 527.1	1.1 11.5 g grid) % of total catch 0.0 0.8 98.3 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9	3.5 5.1 Norwegia % of total catch 0.0 0.8 83.8 0.9	38.1 2013 Total 21.7 3775.4 30.5	2.7 5.3 slips da % of total catch 0.5 84.5 0.7	35.7 ta 2014 Total 20.5 4498.5 32.5	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Angler fish	div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0	8.9 2.5 14.9 Swedish catch 0.0 0.6 95.1 0.2 0.0	0.6 10g boo 2013 Total 0.0 4.6 540.9 0.1 0.0	1.7 17.8 k record catch 0.0 0.8 98.3 0.0 0.0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0	1.1 11.5 g grid) % of total catch 0.0 0.8 98.3 0.0 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3	3.5 5.1 Norwegia % of total catch 0.0 0.8 83.8 0.9 0.1	38.1 2013 Total 21.7 3775.4 30.5 3.0	2.7 5.3 slips da % of total catch 0.5 84.5 0.7 0.1	35.7 ta 2014 Total 20.5 4498.5 32.5 3.5	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock	div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5	8.9 2.5 14.9 Swedish % of total catch 0.0 0.0 0.5 1 0.2 0.0 0.3	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1	1.7 17.8 k record % of total catch 0.0 0.8 98.3 0.0 0.0 0.0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0	1.1 11.5 % of total catch 0.0 0.8 98.3 0.0 0.0 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4	3.5 5.1 % of total catch 0.0 8.3.8 8.3.8 0.9 0.1 1.1	38.1 an sales 2013 Total 21.7 3775.4 30.5 3.0 24.5	2.7 5.3 slips da % of total catch 0.5 84.5 0.7 0.1 0.5	35.7 ta 2014 Total 20.5 4498.5 32.5 3.5 3.5 34.7	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake	-div. IIIA. 29.0 2012 Total 0.0 2.8 458.3 0.7 0.0 0.1.5 0.4	8.9 2.5 14.9 Swedist catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1	1.7 17.8 k record % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.0 0.0 0.0 0.0	1.1 11.5 g grid) % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.1 0.3	38.1 2013 Total 21.7 3775.4 30.5 3.0 24.5 6.7	2.7 5.3 slips da % of total catch 0.5 84.5 0.7 0.1 0.5 0.2	35.7 2014 Total 20.5 4498.5 32.5 3.5 3.4.7 11.1	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling	-div. IIIA. 29.0 -div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2	8.9 2.5 14.9 Swedisl catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1 0.0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.0	1.7 17.8 k record catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0	1.1 11.5 3 grid) % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0	3.5 5.1 % of total catch 0.0 0.8 83.8 0.9 0.1 1.1 1.1 1.0.3 0.8	38.1 2013 Total 21.7 3775.4 3.75.4 3.05 3.0 24.5 6.7 37.8	2.7 5.3 slips da % of total catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8	35.7 2014 Total 20.5 4498.5 3.5 3.5 3.4.7 11.1 37.3	% of to catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe	-div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2 7.3	8.9 2.5 14.9 Swedish catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1 0.0 1.5	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.1 0.0 0.1 2	1.7 17.8 k record catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.5	1.1 11.5 9 grid) % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandaius Angler fish Whiting Haddock Hake Ling Saithe	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9	3.5 5.1 % of total catch 0.0 0.8 83.8 83.8 83.8 9 0.1 1.1 0.3 0.8 2.9	38.1 2013 Total 21.7 3775.4 30.5 3.0 24.5 6.7 37.8 153.5	2.7 5.3 slips da catch 0.5 84.5 0.7 0.1 0.5 0.2 0.2 0.8 3.4	35.7 2014 Total 20.5 4498.5 32.5 34.7 11.1 37.3 222.2	% of t catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe	-div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2 7.3 1.0	8.9 2.5 14.9 Swedisf % of total catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1 0.1 0.1 0.2 0.0 0.3 0.1 0.2 0.0 0.3 0.1 0.0 0.3 0.1 0.0 0.0 0.5 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.7 17.8 k record % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 g grid) % of total catch 0.0 0.8 8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Other market fish Cod as % of shrimp: G: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9 28.1	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.0 3 0.8 2.9 0.7	38.1 2013 Total 21.7 3775.4 3.75.4 3.05 3.0 24.5 6.7 37.8	2.7 5.3 slips da % of total catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8	35.7 2014 Total 20.5 4498.5 3.5 3.5 3.4.7 11.1 37.3	% of t catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch flounder	-div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2 7.3	8.9 2.5 14.9 Swedisł catch 0.6 95.1 0.2 0.0 0.3 0.1 0.0 1.5 0.2 0.0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.1 0.0 0.1 2	1.7 17.8 k record catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.5	1.1 11.5 3 grid) % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandaius Angler fish Whiting Haddock Hake Ling Saithe	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.8 4 8.4 11.4 35.0 124.9 28.1 0.0	3.5 5.1 % of total catch 0.0 0.8 83.8 83.8 83.8 9 0.1 1.1 0.3 0.8 2.9	38.1 2013 Total 21.7 3775.4 30.5 3.0 24.5 6.7 37.8 153.5	2.7 5.3 slips da catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8 3.4 0.5	35.7 2014 Total 20.5 4498.5 32.5 34.7 11.1 37.3 222.2	% of tr
Cod Dther market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch flounder Norway pout	-div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2 7.3 1.0	8.9 2.5 14.9 Swedisf % of total catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1 0.1 0.1 0.2 0.0 0.3 0.1 0.2 0.0 0.3 0.1 0.0 0.3 0.1 0.0 0.0 0.5 0.2 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	1.7 17.8 k record % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 g grid) % of total catch 0.0 0.8 8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch flounder	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9 28.1	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.0 3 0.8 2.9 0.7	38.1 2013 Total 21.7 3775.4 30.5 3.0 24.5 6.7 37.8 153.5	2.7 5.3 slips da catch 0.5 84.5 0.7 0.1 0.5 0.2 0.2 0.8 3.4	35.7 2014 Total 20.5 4498.5 32.5 34.7 11.1 37.3 222.2	% of tr
Cod Cod Cher market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch flounder Norway pout Cod	-div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2 7.3 1.0 0.0	8.9 2.5 14.9 Swedisł catch 0.6 95.1 0.2 0.0 0.3 0.1 0.0 1.5 0.2 0.0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.0 1.2 0.2 0.2	1.7 17.8 % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 3 grid) % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch founder Norway pout	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.8 4 8.4 11.4 35.0 124.9 28.1 0.0	3.5 5.1 % of total catch 0.0 0.8 83.8 0.9 0.1 1.1 1 0.3 0.8 2.9 0.7 0.0	38.1 2013 Total 21.7 3775.4 3.0 24.5 6.7 37.8 153.5 24.5	2.7 5.3 slips da catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8 3.4 0.5	35.7 2014 Total 20.5 4498.5 3.5 3.5 3.4.7 11.1 37.3 222.2 21.6	% of tri catc
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch flounder Norway pout Cod Other market fish	103.2 29.0 cdiv. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 0.2 7.3 1.0 0.0 3.3 3 6.2	8.9 2.5 14.9 Swedisf catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1 0.0 1.5 0.2 0.0 0.0 7	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.0 0.0 1.2 0.2 0.2 0.2 1.3	1.7 17.8 % of total catch 0.0 0.8 98.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 g grid) % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch fiounder Norway pout Cod	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9 28.1 0.0 231.7	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.1 0.3 0.8 2.9 0.7 0.0 0 0.5,4	38.1 2013 Total 21.7 3775.4 3.05 3.0 24.5 6.7 37.8 153.5 24.5 24.5 237.4	2.7 5.3 slips da % of total catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8 3.4 0.5 3.4 0.5 5.3	35.7 2014 Total 20.5 4498.5 3.5 3.4.7 11.1 37.3 222.2 21.6 312.8	% of to catcl
Cod Other market fish Cod as % of shrimp: C: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe Witch flounder Norway pout Cod Other market fish Cod as % of shrimp: D:	103.2 29.0 -div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 40.2 7.3 1.0 0.0 3.3 6.2	8.9 2.5 14.9 Swedisł catch 0.0 0.6 95.1 0.2 0.0 0.3 0.1 0.0 1.5 0.2 0.0 0.0 1.5 0.2 0.0 0.0 7.7 1.3 0.7	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.0 1.2 0.2 0.2 0.2 1.3 1.6	1.7 17.8 k record % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 g grid) % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe With flounder Norway pout Cod as % of shrimp:	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9 28.1 0.0 231.7	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.1 0.3 0.8 2.9 0.7 0.0 5.4 3.2	38.1 2013 Total 21.7 3775.4 3.05 3.0 24.5 6.7 37.8 153.5 24.5 24.5 237.4	2.7 5.3 % of total catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8 3.4 0.5 5.3 3.4	35.7 2014 Total 20.5 4498.5 3.5 3.4.7 11.1 37.3 222.2 21.6 312.8	% of tr catc
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Cod	div. IIIA. 29.0 div. IIIA. 2012 Total 0.0 2.8 458.3 0.7 0.0 1.5 0.4 458.3 0.7 0.0 1.5 0.4 458.3 0.7 0.0 0.0 1.5 0.4 458.3 0.7 0.0 0.0 1.5 0.4 458.3 0.7 0.0 0.0 1.5 0.4 458.3 0.7 0.0 0.0 1.5 0.4 458.3 0.7 0.0 0.0 1.5 0.4 458.3 0.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0	8.9 2.5 14.9 Swedish 0.0 0.0 0.0 0.0 0.2 0.0 0.0 0.2 0.0 0.0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.1 0.0 0.2 0.2 0.2 0.2 0.2 0.2 0.2	1.7 17.8 k record catch 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 3 grid) % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe With flounder Norway pout Cod as % of shrimp:	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9 28.1 0.0 231.7	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.1 0.3 0.8 2.9 0.7 0.0 5.4 3.2	38.1 2013 Total 21.7 3775.4 3.05 3.0 24.5 6.7 37.8 153.5 24.5 24.5 237.4	2.7 5.3 % of total catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8 3.4 0.5 5.3 3.4	35.7 2014 Total 20.5 4498.5 3.5 3.4.7 11.1 37.3 222.2 21.6 312.8	% of t cato
Cod	div. IIIA. 2012 Total 2012 Total 2012 100 2.8 458.3 0.7 0.0 1.5 0.4 458.3 0.7 0.0 1.5 0.4 458.3 0.7 0.0 0.0 3.3 6.2 7.3 1.0 0.0 3.3 6.2 7.7 100 2012 7.3 1.0 0.0 3.3 6.2 7 70tal 2012 1.5 0.0 1.5 0.0 1.5 0.0 0.0 0.0 1.5 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	8.9 2.5 14.9 Swedisl % of total catch 0.0 0.6 95.1 0.2 0.0 0.0 0.3 0.1 5 0.2 0.0 0.0 0.3 0.1 5 0.2 0.0 0.0 0.0 0.3 0.1 5 0.2 0.0 0.0 0.0 0.3 0.1 5 Swedisl 5 8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.6 2013 Total 0.0 4.6 540.9 0.1 0.0 0.1 0.0 0.1 0.0 1.2 0.2 0.2 1.3 1.6 2013 Total 0.0 1.2 0.2 0.2 1.3 1.6 2013 Total 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.1 0.0 0.0	1.7 17.8 k record % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 s (sorting 2014 Total 0.0 4.2 527.1 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0	1.1 11.5 g grid) % of total catch 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Other market fish Cod as % of shrimp: Skagerrak, Sub- Species: Blue Whiting Norway lobster Pandalus Angler fish Whiting Haddock Hake Ling Saithe With flounder Norway pout Cod as % of shrimp:	46.0 div. IIIA. 2012 Total 0.0 34.5 3564.6 37.9 4.3 48.4 11.4 35.0 124.9 28.1 0.0 231.7	3.5 5.1 % of total catch 0.0 0.8 8.3.8 0.9 0.1 1.1 1.1 0.3 0.8 2.9 0.7 0.0 5.4 3.2	38.1 2013 Total 21.7 3775.4 3.05 3.0 24.5 6.7 37.8 153.5 24.5 24.5 237.4	2.7 5.3 % of total catch 0.5 84.5 0.7 0.1 0.5 0.2 0.8 3.4 0.5 5.3 3.4	35.7 2014 Total 20.5 4498.5 3.5 3.4.7 11.1 37.3 222.2 21.6 312.8	% of t cato

Table 5. By-catch, 2012-2014 in the Pandalus fisheries in the Norwegian Deep & Skagerrak-