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Sea Hunting Statistics for Greenland 1993 and 1994, According to a New System
of Collecting Information, Compared to the Previous Lists-of-Game

by

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ABSTRACT

In 1992 a new system of collecting hunting statistics for Greenland was introduced. The system is linked to renewal of hunting licences, and the individual hunters are obliged to fill out forms with their own results during the preceding year. Results are now available for 1993 and the first nine months of 1994. They are presented in the following tables, including the authors' estimate for the three last months of 1994. For comparison a summary of previous catch statistics based on the so-called Lists-of-Game, and of seal skin purchase 1971-1992, is added.

According to the new hunting statistics, the catch of harp seal was at a much higher level in 1993-94 than reported or estimated in the early 1980s. The catches of ringed and hooded seals were, however, not significant different from the levels estimated previously. This might indicate that the increase in the catch of harp seal is real, but the reliability of the new system needs further investigation.

COLLECTION AND HANDLING OF DATA

The new system of collecting hunting statistics in Greenland

In 1992 it was decided to introduce a new system of collecting hunting statistics in Greenland, and the system came into force counting from January 1993 (Anon. 1992, 1993a, 1993b). The system is linked to the issuing of hunting licences, of which two categories exist: one for full-time hunters, and another for part-time hunters. Both categories have to pay a small fee for renewal of the licence, and are obliged to report on their results during the preceding year. The licence year runs from October to September, for which reason results are now only

available for the year 1993 and the first nine months of 1994. In 1993, about 9,500 licenses were issued (4,100 full-time and 5,400 part-time), and 7,671 reports were received (3,403 from full-time and 4,268 from part-time hunters). A number of licence holders reported "no catch", and in 1994 only about 7,200 licenses were issued (3,100 full-time and 4,100 part-time). For that year 6,293 reports (2,772 and 3,521, respectively) were received (by May 1995). All Danish citizens (and foreigners having stayed more than two years in Greenland) can apply for a part-time licence and will get one if the conditions are met (paying the fee, and reporting), but for obtaining the status of full-time hunter the approval by the local municipal authorities is required.

When the licence is issued, the hunter receives a small booklet for noting his catch results. It contains a form for each month, and a summary form for the whole year (a sample is shown in the Appendix, form B). The list of species to be reported include marine mammals (except large whales), some terrestrial mammals, and several game birds, altogether 21 species (see Appendix).

The old system: The 'Lists-of-Game'

Since the late 19th century hunting statistics have been collected in Greenland through the so-called Lists-of-Game. The principle in that system was that a person was appointed at each settlement to keep account of the hunting results of all the hunters at that settlement, and report to the central authorities on forms ('Lists-of-Game'), one for each individual engaged in hunting (Rosendahl 1961, Kapel 1975, 1986, 1991, 1993).

The Lists-of-Game never functioned completely satisfactory for all settlements in Greenland. For shorter or longer periods reports were not received from a number of localities, or were clearly incomplete. For that reason, estimates of "non-reported catch" were given on a settlement by settlement basis, and added up by districts in the published summaries. These estimates constituted an increasing part of the estimated total catch during the 1970s and early 1980s, for which reason some users took the position that the statistics became increasingly unreliable, whereas others believed that the Lists-of-Game were still giving a picture of trends although they were not presenting exact but rather minimum figures (Kapel 1991). The basis for the estimates of non-reported catch at a given settlement were the trade statistics mentioned below, various sources of local information, and comparison with reports from previous years and adjacent settlements in the same year.

In 1984 the responsibility for handling and publishing the summaries of the Lists-of-Game was transferred from the Ministry for Greenland to the Statistical Office of the Greenland Home Rule Authorities. The material for 1984 and 1985 was treated in the same way as in previous years (i.e. including estimates of non-reported catch), but never published. For 1986 and 1987 the material was still collected, but no estimate of non-reported catch was attempted. After that, the old system was discontinued and catch statistics for Greenland are not available for the years 1988 to 1992, when the above-mentioned new system was introduced.

The number of species reported through the Lists-of-Game has varied over time, but since 1971 they included all pinniped and cetacean species, polar bear and caribou, but not other land mammals or birds (see Annex).

Trade (purchase) statistics.

Trade statistics have an even longer history in Greenland, dating back to the 18th Century. They give information on a number of hunting products, including oil (blubber) and seal skin. Locally treated (washed but raw) seal skins were previously purchased by the local manager of KGH (the Royal Greenland Trade Department), sorted by species, quality and size category, and shipped to Denmark where they were either tanned or sold raw on annual auctions. There was no limitation in the number of skins that could be purchased locally, and the purchase statistics could therefore be used for comparison with information from the catch statistics.

The relation between the catch of seals and the purchase of skins varied from one locality to another, depending on the local use or interest in making an income from hunting, but the two sets of statistics often showed similar trends.

In recent years, however, most seal skins have been sent to South Greenland to be processed at the Home Rule owned tannery there, and due to market constraints and economical considerations the trading policy has changed, including suspension of the purchase of some seal skin categories (e.g. those of large harp seals). The present trade statistics for seal skins are thus no longer immediately comparable with the previous ones, or with the hunting statistics.

REPORTED OR ESTIMATED CATCH OF SEALS IN 1993 AND 1994

The results of the new system of collecting hunting statistics in Greenland is shown for the three most important seal species in the following tables. Tables 2-7 present the information on the catch of harp, ringed and hooded seals by month and region or district for 1993; for 1994 when only data from January to September are available, we give a preliminary estimate of the expected catch during the following three months, and in the whole year. Table 8 (and the accompanying Figure) presents catch and purchase statistics for the periods 1971-1987 and 1971-1992, respectively, and Table 1 compare catch statistics for 1983 and 1993-1994.

Harp seal

Tables 2, 4 and 6 give the data on the reported catch of harp seals in 1993 and 1994. According to this information 55,683 harp seals were caught in Greenland in 1993, of which just over 50 % (28,290) were reported as young or immature seals ("blåsider", i.e. spotted animals: beaters and bedlamers). During the first nine months of 1994, the reported catch was 37,824 (18,987 spotted) harp seals; the total catch in 1994 is tentatively estimated at about 47,000. This catch level is the highest ever recorded for Greenland: Based on information from the Lists-of-Game and trends in purchase statistics, the catch of harp seals in 1992 was previously estimated to be of the order 25,000 (Table 8, Kapel 1993), the same level as in the late 1940s (Kapel 1986).

The regional and seasonal distribution of the catches of harp seal (Table 4 and 6) is in general agreement with previous data from the Lists-of-Game (Rosendahl 1991, Kapel 1975), and with recent information from tag recoveries (Kapel, this meeting, SEA-59). It is worth noting that this most recent catch information indicates that quite a few harp seals spend the winter (December-March) in Greenland, not only immature animals but also many older seals ("sortsider", saddlebacks).

Hooded seal

According to the new statistics, the catch of hooded seals was 6,906 in 1993 and 6,772 in the first nine months of 1994 (estimated total about 7,670; Tables 1 and 3). This level is slightly higher than the catches reported or estimated for the late 1970s and early 1987, but not significantly so (Table 8).

The regional and seasonal distribution of the hooded seal catches (Tables 5 and 7) agree fairly well with previous information (Rosendahl 1961, Kapel 1975), although the catch level in the southernmost part of West Greenland (South Greenland = Narsaq, Qaqortoq and Nanortalik districts) that used to be the "classical" area for hooded seal hunting in spring is now apparently not as dominant compared to the hunting in the region "Southwest Greenland" (Paamiut-Sisimiut). A strange feature is the very large catch of hooded seal reported from Thule district in June (May-July) 1994; this contrasts previous information and needs checking. If correct, it indicates presence of hooded seals far north in the Baffin Bay region at a time, when they are moulting.

As in the case of harp seal, the new statistical information also indicates that a fair number of hooded seals spend the winter months in Greenland waters.

Ringed seal

Tables 1, 3, 5 and 7 show that the catches of ringed seals reported for 1993 (75,644) and 1994 (estimated total 67,040) are within the range of the total annual catch of ringed seals in Greenland reported or estimated during the period 1971-1985 (59,000-97,000 ; Table 8).

Comparison of the regional distribution of estimated ringed seal catches in 1983 with those in 1993 and 1994 (Table 1) indicates, however, significant differences: For Thule, Ammassalik and Scoresbysund the catch levels estimated for 1983 are significantly higher than those reported for 1993 and 1994, whereas the 1983 levels estimated for several other districts (particularly in Central West Greenland) were significantly lower than reported in 1993 and 1994.

PRELIMINARY COMMENTS ON THE NEW CATCH DATA

The results of the new system of collecting hunting statistics in Greenland have only very recently become available to the authors, so a thorough analysis and evaluation has not been possible. The following comments should, therefore, be considered preliminary.

When comparing the old and new system of collecting hunting statistics two features should be noted: the difference in approach and the reporting intensity.

The Lists-of-Game represented an "indirect" reporting procedure: One person reporting the hunting results of everyone at a given settlement. As long as the settlements were small, this old system was feasible, and it seemed to work well for a number of years at many localities. But when the size of a settlement increased (say, to more than 2-300 inhabitants) it became increasingly difficult for a single person to keep track of all hunting, and at the same time the interest in doing so faded for a number of reasons. It is obvious that the number of reports (Lists-of-Game) received in 1983 (2,226; Table 1) did not reflect the number of people actually engaged in hunting. This led to the procedure of trying to estimate non-reported catches. Only in few cases it was possible to check whether these estimates resulted in under-estimating or over-estimating the catch.

The new system, the reporting linked to renewal of hunting licences, is a "direct" approach: Each hunter shall report his own results, and this should be possible independently of the size of the settlement. A main problem may be that many hunters are not used to paper work, and do not see the advantage of making exact notes on the dates and number of hunting objects he is landing. Whether this could lead to under-reporting, over-reporting, or just arbitrary reporting in order to have something on record when renewing the license, is not clear.

The first results of the new system, as presented in the tables of this paper, give rise for some consideration of ways of checking the efficiency and reliability of the new data sets. As mentioned above, the catches reported for ringed seal and hooded seals are within the range estimated on the basis of the previous reporting system. Most of the differences found in respect to seasonal and regional distribution of catches may well be explained by actual variation in catch results from one year to another, or as results of difference in the method of reporting and estimating catches.

The level of harp seal catches reported by the new system is, however, significantly different from that estimated previously. The largest differences were found in some of the districts in Central West and Southwest Greenland, where reporting in the old system was known to be incomplete (see Table 1) , and it is quite possible that previous estimates of non-reported

catches of harp seals in these districts were too "conservative", so that total catches were under-estimated during this period. Further, catch and purchase statistics did indicate an increasing trend in harp seal catches since the mid 1970s (Kapel 1986), and this trend may have continued to date. It is thus possible, that the present catch of harp seal in Greenland in fact is in the order of 45,000-55,000 annually, rather than the 20,000-25,000 previously suggested (Kapel 1993).

There is, however, a need for a more close and detailed review of the results obtained from the new system of collecting information on hunting results in Greenland, in order to evaluate its efficiency and draw conclusions on the actual level of catches.

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Table 1. Comparison of Greenland seal catch statistics for 1983 and 1993-94.

Harp seal

District	1983				1993		1994, Jan.-Sep.			(Year) (Estim.)
	Inhab.	Reps.	Harps	Estim.	Reps.	Harps	Inhab.	Reps.	Harps	
Thule	735	30	46	407	250	283	818	194	131	(220)
Upernavik	2033	264	1971	2408	503	5261	2527	362	1952	(2850)
Uummannaq	2237	312	3680	4165	511	4254	2514	440	2887	(3340)
Ilulissat	3799	-	-	1605	781	6702	4089	600	2940	(3840)
Qasianguit	1701	13	154	542	274	1788	1532	220	858	(1310)
Qeqertarsuaq	926	135	831	1421	291	1910	1105	228	1291	(1690)
Aasiaat	3055	79	437	1382	540	5018	3163	434	2557	(3560)
Kangaatsiaq	1148	66	1299	1372	268	3346	1450	209	2003	(3500)
Sisimiut	3798	27	60	562	640	4595	4527	542	3779	(4680)
Maniitsoq	3521	293	915	935	580	5003	3631	560	3438	(4140)
Nuuk	7142	133	736	778	1107	5019	9671	994	4515	(4860)
Paamiut	2464	62	890	1471	415	4072	2220	325	3152	(3700)
Narsaq	1717	32	264	291	233	1499	1861	183	1357	(1560)
Qaqortoq	2647	93	714	779	332	3185	3110	314	3958	(4460)
Nanortalik	2562	351	423	621	390	2699	2497	329	2497	(2800)
Ammassalik	2445	296	218	357	381	1015	2701	258	445	(545)
Scoresbysund	457	40	33	57	54	34	470	41	64	(65)
Total	42387	2226	12671	19153	7671	55683	48029	6293	37824	(47120)

Ringed seal

Hooded seal

District	1983		1993	1994	1983		1993	1994	(I-XII)
	Reported	Estimated	I-XII	I-IX (I-XII)	Reported	Estimated	I-XII	I-IX	
Thule	2456	6392	4244	3251 (4050)	16	79	12	457	(460)
Upernav.	12855	19797	25877	14961 (18660)	319	440	319	294	(360)
Uumman.	6256	9195	7262	8798 (9950)	547	645	209	137	(210)
Ilulis.	-	1477	3459	2761 (3260)	-	44	190	169	(185)
Qasiang.	65	356	1514	1045 (1300)	2	33	84	39	(45)
Qeqert.	1187	1392	3559	2561 (2880)	155	175	112	94	(95)
Aasiaat	604	1624	6801	4730 (5280)	66	98	232	245	(265)
Kangaat.	3618	5186	5719	4619 (5170)	5	32	62	79	(85)
Sisimiut	248	989	1486	1090 (1370)	19	89	456	291	(380)
Maniits.	1089	1155	1418	1111 (1510)	419	429	707	358	(570)
Nuuk	667	687	999	1256 (1340)	108	113	483	440	(460)
Paamiut	196	434	1578	1326 (1600)	176	341	256	189	(200)
Narsaq	191	217	349	220 (270)	79	101	141	97	(100)
Qaqortoq	429	475	713	635 (730)	453	509	558	349	(550)
Nanorta.	1364	1957	2249	2269 (2580)	892	1027	1107	925	(930)
Amass.	8336	11805	6706	4337 (5580)	870	1321	1944	2578	(2740)
Scores.	1488	4053	1711	1192 (1510)	4	9	32	31	(35)
Total	41049	67182	75644	56162 (67040)	4130	5485	6906	6772	(7670)

Table 2. Seal hunting statistics for Greenland, harp seal by month and region.

Harp Seal 1993

Region		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	SUM
N-W	B	157	19	14	28	40	193	740	1272	1293	742	234	52	4784
	S	101	49	6	23	136	270	804	985	1263	864	454	59	5014
	G	258	68	20	51	176	463	1544	2257	2556	1606	688	111	9798
CWe	B	48	40	24	6	19	2240	533	794	503	304	211	127	4849
	S	150	29	15	16	86	788	675	517	393	348	376	248	3641
	G	198	69	39	22	105	3028	1208	1311	896	652	587	375	8490
CWv	B	261	116	78	27	26	378	927	1003	809	604	615	423	5267
	S	359	151	43	23	72	691	727	582	623	539	636	561	5007
	G	620	267	121	50	98	1069	1654	1585	1432	1143	1251	984	10274
CW	G	818	336	160	72	203	4097	2862	2896	2328	1795	1838	1359	18764
	B	764	1623	1003	453	409	769	1221	1234	1066	682	643	611	10478
	S	783	696	700	318	562	1278	1184	805	799	456	308	322	8211
SW	G	1547	2319	1703	771	971	2047	2405	2039	1865	1138	951	933	18689
	B	234	192	227	157	163	243	299	207	174	138	94	76	2204
	S	522	351	471	444	398	586	711	455	459	496	147	139	5179
S	G	756	543	698	601	561	829	1010	662	633	634	241	215	7383
	B	4	2	8	5	15	20	176	226	109	78	40	25	708
	S	2	1	17	2	3	10	117	56	80	24	22	7	341
E	G	6	3	25	7	18	30	293	282	189	102	62	32	1049
	TOTAL B	1468	1992	1354	676	672	3843	3896	4736	3954	2548	1837	1314	28290
	TOTAL S	1917	1277	1252	826	1257	3623	4218	3400	3617	2727	1943	1336	27393
TOTAL G	3385	3269	2606	1502	1929	7466	8114	8136	7571	5275	3780	2650	55683	

Harp seal 1994

Region		I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	I-IX	Est. X-XII	Est. SUM
N-W	B	24	15	7	14	31	123	425	838	1299	.	1	.	2777		
	S	35	23	8	8	12	122	490	632	863	.	.	.	2193		
	G	59	38	15	22	43	245	915	1470	2162	.	1	.	4970	1440	6410
CWe	B	53	29	18	22	22	128	399	707	607	.	.	.	1985		
	S	141	35	20	9	35	360	485	411	317	.	.	.	1813		
	G	194	64	38	31	57	488	884	1118	924	.	.	.	3798	1350	5150
CWv	B	203	132	44	20	47	252	598	831	1071	.	.	.	3198		
	S	372	131	56	16	60	384	522	468	644	.	.	.	2653		
	G	575	263	100	36	107	636	1120	1299	1715	.	.	.	5851	2900	8750
SW	B	906	951	606	379	346	760	1208	1486	1518	79	.	.	8239		
	S	574	530	469	253	489	1157	1045	1004	969	155	.	.	6645		
	G	1480	1481	1075	632	835	1917	2253	2490	2487	234	.	.	14884	2500	17380
S	B	186	150	160	315	230	382	458	361	240	.	2	3	2487		
	S	310	326	402	845	487	775	842	683	655	.	.	.	5325		
	G	496	476	562	1160	717	1157	1300	1044	895	.	2	3	7812	1000	8810
E	B	5	3	3	1	4	4	96	99	86	.	.	.	301		
	S	2	-	4	3	6	20	74	47	52	.	.	.	208		
	G	7	3	7	4	10	24	170	146	138	.	.	.	509	100	610
TOTAL B	1377	1280	838	751	680	1649	3184	4322	4821	79	3	3	18987			
TOTAL S	1434	1045	959	1134	1089	2818	3458	3245	3500	155	0	0	18837			
TOTAL G	2811	2325	1797	1885	1769	4467	6642	7567	8321	234	3	3	37824	9290	47030	

Table 3. Seal hunting statistics for Greenland, hooded and ringed seals by month and region.

Hooded seal 1993

Region	I	II	III	VI	V	VI	VII	VIII	IX	X	XI	XII	SUM
N+NW	22	5	13	13	32	17	57	129	114	101	29	8	540
CWe	24	14	12	17	78	17	22	28	42	14	1	5	274
CWw	20	15	17	64	135	35	20	40	31	14	8	7	406
SW	111	126	127	359	430	156	106	70	77	61	135	146	1904
S	46	27	65	129	547	454	225	65	24	47	145	32	1806
E	22	24	7	52	56	103	1023	378	149	93	52	17	1976
TOTAL	245	211	241	634	1278	782	1453	710	437	330	370	215	6906

Ringed seal 1993

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	SUM
N+NW	5780	3586	2961	3717	5508	2945	1735	2036	3427	2146	1792	1750	37283
CWe	526	419	567	980	967	333	131	142	152	188	279	289	4973
CWw	2071	3078	2790	2840	3250	262	111	62	192	206	516	701	16079
SW	603	524	643	866	780	280	205	238	276	259	405	402	5481
S	242	210	479	348	388	355	385	257	182	181	116	168	3311
E	723	827	803	966	673	701	794	719	646	591	562	412	8417
TOTAL	9945	8644	8243	9717	11566	4876	3361	3454	4875	3571	3670	3722	75644

Hooded seal 1994

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	I-IX	Est. X-XII	Est.	SUM
N+NW	9	-	-	2	129	296	143	127	282	.	.	.	888	145		1030
CWe	6	6	4	17	49	26	16	40	44	.	.	.	208	20		230
CWw	15	3	10	58	166	52	39	36	39	.	.	.	418	25		445
SW	111	102	94	260	300	107	84	82	103	35	.	.	1278	330		1610
S	23	19	22	179	408	431	181	81	27	.	.	.	1371	210		1580
E	22	14	5	40	49	382	1575	409	113	.	.	.	2609	160		2775
TOTAL	186	144	135	556	1101	1294	2038	775	508	35	.	.	6772	890		7670

Ringed seal 1994

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	I-IX	Est. X-XII	Est.	SUM
N+NW	5052	3820	2376	3387	5674	2420	1352	1052	1877	.	.	.	27010	5650		32660
CWe	571	476	579	752	921	270	68	86	83	.	.	.	3806	775		4560
CWw	1973	2510	2161	2491	2362	261	48	38	66	.	.	.	11910	1420		13330
SW	581	714	822	1101	735	219	159	185	236	31	.	.	4783	1040		5820
S	336	316	553	354	410	340	373	277	158	.	3	4	3124	455		3580
E	769	696	800	714	563	611	563	412	401	.	.	.	5529	1560		7090
TOTAL	9282	8532	7291	8799	10665	4121	2563	2050	2821	31	3	4	56162	10880		67040

Table 4. Seal hunting statistics for Greenland 1993, harp seal by month, district and age category ¹⁾.

District	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	SUM
THU B	-	-	2	3	-	2	3	2	28	20	5	-	65
S	5	-	-	-	-	3	10	44	76	77	3	-	218
G	5	-	2	3	-	5	13	46	104	97	8	-	283
UPV B	138	4	8	21	37	96	218	413	590	426	148	19	2118
S	73	42	3	23	133	127	272	451	888	686	411	34	3143
G	211	46	11	44	170	223	490	864	1478	1112	559	53	5261
UMQ B	19	15	4	4	3	95	519	857	675	296	81	33	2601
S	23	7	3	-	3	140	522	490	299	101	40	25	1653
G	42	22	7	4	6	235	1041	1347	974	397	121	58	4254
ILU B	25	30	24	6	18	2166	451	670	359	216	117	90	4172
S	127	22	8	4	72	492	495	346	309	230	264	161	2530
G	152	52	32	10	90	2658	946	1016	668	446	381	251	6702
QAS B	23	10	-	-	1	74	82	124	144	88	94	37	677
S	23	7	7	12	14	296	180	171	84	118	112	87	1111
G	46	17	7	12	15	370	262	295	228	206	206	124	1788
QEQ B	70	34	12	10	3	57	126	184	138	110	93	50	887
S	147	55	8	-	8	102	170	158	126	119	66	64	1023
G	217	89	20	10	11	159	296	342	264	229	159	114	1910
AAS B	38	1	6	5	8	253	594	603	456	211	187	145	2507
S	55	17	10	12	50	511	466	318	344	219	295	214	2511
G	93	18	16	17	58	764	1060	921	800	430	482	359	5018
KNQ B	153	81	60	12	15	68	207	216	215	283	335	228	1873
S	157	79	25	11	14	78	91	106	153	201	275	283	1473
G	310	160	85	23	29	146	298	322	368	484	610	511	3346
SIS B	166	214	190	91	75	172	333	456	423	317	233	164	2834
S	139	129	86	31	91	338	313	205	147	119	83	80	1761
G	305	343	276	122	166	510	646	661	570	436	316	244	4595
MAN B	255	331	463	175	142	189	320	281	245	138	176	258	2973
S	189	246	281	118	98	278	253	174	163	78	73	79	2030
G	444	577	744	293	240	467	573	455	408	216	249	337	5003
NUK B	252	966	254	111	91	162	287	340	263	162	166	112	3166
S	250	141	109	73	214	297	237	145	196	87	54	50	1853
G	502	1107	363	184	305	459	524	485	459	249	220	162	5019
PAM B	91	112	96	76	101	246	281	157	135	65	68	77	1505
S	205	180	224	96	159	365	381	281	293	172	98	113	2567
G	296	292	320	172	260	611	662	438	428	237	166	190	4072
NRQ B	19	28	31	16	22	71	89	57	37	26	19	15	430
S	41	56	75	45	79	162	163	138	127	102	42	39	1069
G	60	84	106	61	101	233	252	195	164	128	61	54	1499
QAQ B	92	89	93	91	103	132	165	124	93	70	40	39	1131
S	183	142	160	173	198	218	269	149	167	307	48	40	2054
G	275	231	253	264	301	350	434	273	260	377	88	79	3185
NAN B	123	75	103	50	38	40	45	26	44	42	35	22	643
S	298	153	236	226	121	206	279	168	165	87	57	60	2056
G	421	228	339	276	159	246	324	194	209	129	92	82	2699
AMM B	4	2	8	4	15	20	176	226	107	78	40	25	705
S	2	1	1	2	3	10	117	52	70	23	22	7	310
G	6	3	9	6	18	30	293	278	177	101	62	32	1015
SCO B	-	-	-	1	-	-	-	-	2	-	-	-	3
S	-	-	16	-	-	-	-	4	10	1	-	-	31
G	-	-	16	1	-	-	-	4	12	1	-	-	34
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	SUM

¹⁾ Age category: B - beaters and bedlamers, S - saddlebacks, G - total

Table 5. Seal hunting statistics for Greenland 1993, hooded and ringed seals by month and district.

Hooded seal

District	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	SUM
THU	-	-	-	-	-	-	1	2	6	3	-	-	12
UPV	10	3	11	9	26	10	46	79	62	53	10	-	319
UMQ	12	2	2	4	6	7	10	48	46	45	19	8	209
ILU	23	12	10	14	49	9	16	24	18	11	-	4	190
QAS	1	2	2	3	29	8	6	4	24	3	1	1	84
QEQ	14	10	11	19	35	8	3	7	3	-	1	1	112
AAS	4	4	5	25	78	24	14	32	25	8	7	6	232
KNQ	2	1	1	20	22	3	3	1	3	6	-	-	62
SIS	13	8	41	91	119	26	30	21	17	30	52	8	456
MAN	42	34	33	131	163	43	21	10	20	12	68	130	707
NUK	44	72	30	91	88	33	35	30	30	11	11	8	483
PAM	12	12	23	46	60	54	20	9	10	8	4	-	258
NRQ	3	3	6	22	47	13	22	12	7	2	2	2	141
QAQ	15	10	22	56	114	47	52	19	10	42	141	30	558
NAN	28	14	37	51	386	394	151	34	7	3	2	-	1107
AMM	19	4	4	52	56	103	1023	376	145	93	52	17	1944
SCO	3	20	3	-	-	-	-	2	4	-	-	-	32
TOTAL	245	221	241	634	1278	782	1453	710	437	330	370	215	6906

Ringed seal

Region	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	SUM
THU	333	259	209	227	305	371	352	481	875	361	300	171	4244
UPV	4159	2455	2178	2753	3748	2022	1168	1415	2280	1450	1202	1047	25877
UMQ	1288	872	574	737	1455	552	215	140	272	335	290	532	7262
ILU	365	267	365	697	631	262	128	123	125	153	177	166	3459
QAS	161	152	202	283	336	71	3	19	27	35	102	123	1514
QEQ	405	349	399	508	1400	123	10	19	24	44	138	140	3559
AAS	650	1577	1301	1223	1168	98	90	36	110	71	182	295	6801
KNQ	1016	1152	1090	1109	682	41	11	7	58	91	196	266	5719
SIS	171	165	201	318	226	43	16	23	46	88	113	76	1486
MAN	156	125	168	230	221	43	21	16	40	47	156	195	1418
NUK	136	109	117	134	127	65	48	70	76	29	40	48	999
PAM	140	125	157	184	206	129	120	129	114	95	96	83	1578
NRQ	29	21	27	48	36	22	39	36	39	24	10	18	349
QAQ	53	38	41	52	126	123	110	35	37	54	27	17	713
NAN	160	151	411	248	226	210	236	186	106	103	79	133	2249
AMM	592	584	593	788	570	591	626	590	530	433	461	348	6706
SCO	131	243	210	178	103	110	168	129	116	158	101	64	1711
TOTAL	9945	8644	8243	9717	11566	4876	3361	3454	4875	3571	3670	3722	75644

Table 6. Seal hunting statistics for Greenland 1994, harp seal by month, district and age category ¹⁾.

District	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	I-IX	Est. X-XII	Est. SUM
THU B	1	1	1	-	-	-	4	9	27	.	.	.	43		
S	1	-	-	2	-	2	7	11	65	.	.	.	88		
G	2	1	1	2	-	2	11	20	92	.	.	.	131	90	220
UPV B	16	9	6	13	16	58	85	285	470	.	.	.	958		
S	8	8	8	6	8	43	110	288	515	.	.	.	994		
G	24	17	14	19	24	101	195	573	985	.	.	.	1952	900	2850
UMQ B	7	5	-	1	15	65	336	544	802	.	1	.	1776		
S	26	15	-	-	4	77	373	333	283	.	.	.	1111		
G	33	20	-	1	19	142	709	877	1085	.	1	.	2887	450	3340
ILU B	47	23	16	19	17	91	327	601	492	.	.	.	1633		
S	99	24	19	8	26	234	366	295	236	.	.	.	1307		
G	146	47	35	27	43	325	693	896	728	.	.	.	2940	900	3840
QAS B	6	6	2	3	5	37	72	106	115	.	.	.	352		
S	42	11	1	1	9	126	119	116	81	.	.	.	506		
G	48	17	3	4	14	163	191	222	196	.	.	.	858	450	1310
QEQ B	59	32	12	3	1	28	89	142	257	.	.	.	623		
S	132	59	10	11	4	34	96	131	191	.	.	.	668		
G	191	91	22	14	5	62	185	273	448	.	.	.	1291	400	1690
AAS B	10	8	5	4	39	153	355	446	470	.	.	.	1490		
S	32	6	18	2	38	242	297	224	208	.	.	.	1067		
G	42	14	23	6	77	395	652	670	678	.	.	.	2557	1000	3560
KNQ B	134	92	27	13	7	71	154	243	344	.	.	.	1085		
S	208	66	28	3	18	108	129	113	245	.	.	.	918		
G	342	158	55	16	25	179	283	356	589	.	.	.	2003	1500	3500
SIS B	285	250	91	59	43	202	422	425	497	.	.	.	2274		
S	186	131	63	33	65	284	290	234	219	.	.	.	1505		
G	471	381	154	92	108	486	712	659	716	.	.	.	3779	900	4680
MAN B	331	300	231	114	56	175	255	353	348	4	.	.	2167		
S	146	177	192	34	64	239	147	120	152	.	.	.	1271		
G	477	477	423	148	120	414	402	473	500	4	.	.	3438	700	4140
NUK B	209	322	235	143	167	226	374	528	536	75	.	.	2815		
S	107	95	85	74	117	273	291	242	261	155	.	.	1700		
G	316	417	320	217	284	499	665	770	797	230	.	.	4515	350	4870
PAM B	81	79	49	63	80	157	157	180	137	.	.	.	983		
S	135	127	129	112	243	361	317	408	337	.	.	.	2169		
G	216	206	178	175	323	518	474	588	474	.	.	.	3152	550	3700
NRQ B	75	44	11	25	22	84	63	82	57	.	.	.	463		
S	34	64	44	53	79	165	134	148	173	.	.	.	894		
G	109	108	55	78	101	249	197	230	230	.	.	.	1357	200	1560
QAQ B	29	43	64	225	137	207	319	138	105	.	.	.	1267		
S	125	101	144	587	206	408	486	310	324	.	.	.	2691		
G	154	144	208	812	343	615	805	448	429	.	.	.	3958	500	4460
NAN B	82	63	85	65	71	91	76	141	78	.	2	3	757		
S	151	161	214	205	202	202	222	225	158	.	.	.	1740		
G	233	224	299	270	273	293	298	366	236	.	2	3	2497	300	2800
AMM B	5	3	3	1	4	4	93	90	73	.	.	.	276		
S	2	-	4	3	6	20	69	41	24	.	.	.	169		
G	7	3	7	4	10	24	162	131	97	.	.	.	445	100	545
SCO B	-	-	-	-	-	-	3	9	13	.	.	.	25		
S	-	-	-	-	-	-	5	6	28	.	.	.	39		
G	-	-	-	-	-	-	8	15	41	.	.	.	64	1	65

1) Age category: B - beaters and bedlamers, S - saddlebacks, G - total

Table 7. Seal hunting statistics for Greenland 1994, hooded and ringed seals by month and district.

Hooded seal

District	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	I-IX	Est. X-XII	Est.	SUM
THU	-	-	-	-	60	275	80	23	19	.	.	.	457	5		460
UPV	-	-	-	-	64	17	33	67	113	.	.	.	294	65		360
UMQ	9	-	-	2	5	4	30	37	50	.	.	.	137	75		210
ILU	6	6	3	11	34	24	15	34	36	.	.	.	169	15		185
QAS	-	-	1	6	15	2	1	6	8	.	.	.	39	5		45
QEQ	8	1	-	15	41	15	8	4	2	.	.	.	94	-		95
AAS	3	1	4	20	100	31	26	26	34	.	.	.	245	20		265
KNQ	4	1	6	23	25	6	5	6	3	.	.	.	79	5		85
SIS	24	35	19	57	74	19	12	23	28	.	.	.	291	90		380
MAN	60	26	25	89	94	20	23	6	15	.	.	.	358	210		570
NUK	22	34	43	79	88	35	34	38	32	35	.	.	440	20		460
PAM	5	7	7	35	44	33	15	15	28	.	.	.	189	10		200
NRQ	2	4	1	12	31	10	17	14	6	.	.	.	97	5		100
QAQ	19	9	13	73	56	73	47	43	16	.	.	.	349	200		550
NAN	2	6	8	94	321	348	117	24	5	.	.	.	925	5		930
AMM	22	14	5	40	49	381	1575	383	109	.	.	.	2578	160		2740
SCO	-	-	-	-	-	1	-	26	4	.	.	.	31	-		35
TOTAL	186	144	135	556	1101	1294	2038	775	508	35	.	.	6772	890		7670

Ringed seal

District	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	I-IX	Est. X-XII	Est.	SUM
THU	297	190	249	253	409	387	263	346	857	.	.	.	3251	800		4050
UPV	2474	1883	1338	2095	3216	1540	945	593	877	.	.	.	14961	3700		18660
UMQ	2281	1747	789	1039	2049	493	144	113	143	.	.	.	8798	1150		9950
ILU	379	271	383	553	699	245	66	85	80	.	.	.	2761	500		3260
QAS	192	205	196	199	222	25	2	1	3	.	.	.	1045	255		1300
QEQ	382	349	318	562	826	97	10	5	12	.	.	.	2561	320		2880
AAS	684	1073	925	983	901	102	26	22	14	.	.	.	4730	550		5280
KNQ	907	1088	918	946	635	62	12	11	40	.	.	.	4619	550		5170
SIS	128	170	199	324	178	31	9	22	29	.	.	.	1090	280		1370
MAN	160	159	196	272	204	45	23	13	38	1	.	.	1111	400		1510
NUK	143	222	195	250	188	67	41	56	64	30	.	.	1256	85		1340
PAM	150	163	232	255	165	76	86	94	105	.	.	.	1326	275		1600
NRQ	20	14	36	34	11	22	24	35	24	.	.	.	220	50		270
QAQ	49	43	59	84	77	104	78	88	53	.	.	.	635	95		730
NAN	267	259	458	236	322	214	271	154	81	.	3	4	2269	310		2580
AMM	605	489	626	575	422	521	516	299	284	.	.	.	4337	1240		5580
SCO	164	207	174	139	141	90	47	113	117	.	.	.	1192	320		1510
TOTAL	9282	8532	7291	8799	10665	4121	2563	2050	2821	31	3	4	56162	10880		67040

Table 8. Catch of seals in Greenland 1971-1985, and purchase of seal skins 1971-1992.

CATCH OF SEALS IN GREENLAND, 1971-1985

YEAR	TOTAL	RINGED	HARP	HOODED	BEARDED	HARB.
1971	73.319	64.534	5.608	2.378	707	92
1972	78.736	67.714	6.042	4.210	707	71
1973	91.116	77.775	9.300	3.331	661	49
1974	85.998	74.015	7.244	4.019	616	68
1975	84.460	72.793	6.146	4.767	685	72
1976	85.951	71.882	8.074	5.063	864	83
1977	97.877	81.168	10.031	6.009	642	58
1978	108.626	90.528	10.978	6.404	679	37
1979	117.027	97.326	12.963	5.916	784	38
1980	94.324	74.543	12.623	6.416	698	44
1981	97.962	76.989	14.081	6.197	658	37
1982	96.453	71.491	17.569	6.449	888	64
1983	92.794	67.183	19.153	5.485	918	56
1984	93.025	69.176	18.253	4.709	838	49
1985	86.019	59.185	19.035	6.883	863	53
1986*	63.777	43.089	14.502	5.846	494	45
1987*	62.613	44.451	17.128	4.808	509	33

* - without estimates for THU a.o. - not comparable

PURCHASE OF SEAL SKINS IN GREENLAND, 1971-1992

YEAR	TOTAL	RINGED	HARP	OTHER HOODS	BEARD.+ HARB.
1971	48.544	46.067	1.630	786	61
1972	40.759	38.292	1.715	733	19
1973	54.255	50.786	2.955	444	70
1974	54.923	50.016	2.540	2.365	2
1975	54.764	49.384	2.859	2.396	125
1976	59.220	52.372	4.248		2.600
1977	73.066	63.825	5.708		3.533
1978	72.740	64.488	5.404		2.848
1979	82.904	72.124	6.977		3.803
1980	63.908	54.035	6.790		3.083
1981	55.663	47.997	5.641		2.025
1982	55.211	45.152	7.319		2.740
1983	47.842	39.070	7.240		1.527
1984	52.514	43.594	7.505		1.384
1985	50.526	38.692	9.419		2.415
1986					
1987					
1988	57.545	46.618	9.251		1.676
1989	45.038	34.640	8.993		1.405
1990	53.916x	40.173	11.149		2.149
1991	64.675x	47.214	10.709		6.649+103
1992	71.226x	47.074	18.361		3.251+142

x - including a number of unspecified seal skins

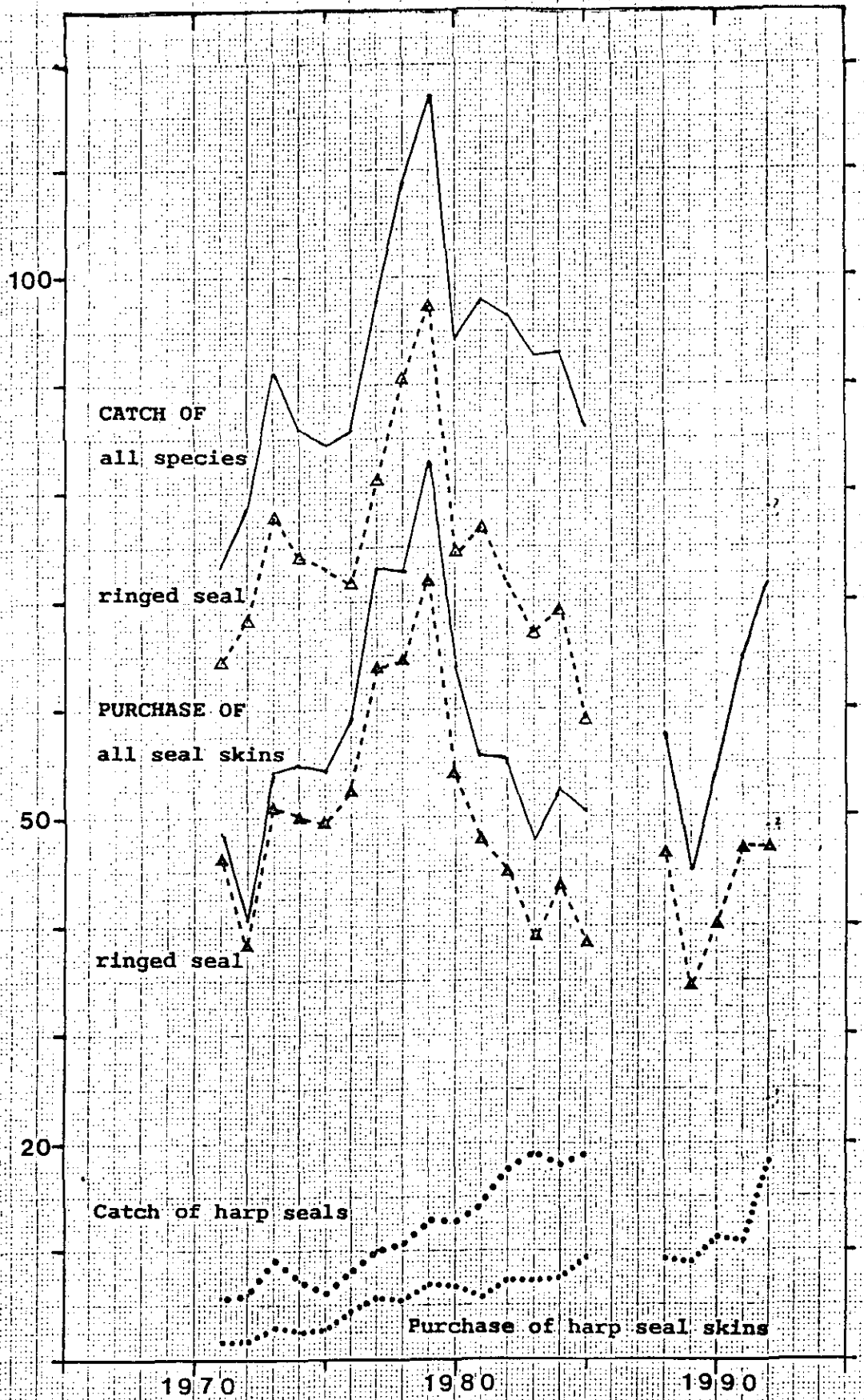


Figure 1. Trends in catch and purchase of seal skins in Greenland, 1971-1992

Annex.

Forms used for collecting hunting statistics in Greenland:

A. Lists-of-Game, form used by list-keepers for reporting the catch of individual hunters, until 1985.

B. Hunting licences, form used by individual hunters when applying for licence renewal, since 1993.

Species account:

English	Latin	Lists-of Game	Hunting licences
Caribou	Rangifer tarandus	1. rener	Tuttu
Polar bear	Ursus maritimus	2. isbjørne	Nanoq
Musk ox	Ovibos moschatus	-	Umimmak
Polar hare	Lepus arcticus	-	Ukaleq
Arctic fox	Alopex lagopus	(trade figures)	Terianniaq
Minke whale	Balaenoptera acutorostrata	3. vågehvaler	-
Narwhal	Monodon monoceros	4. narphvaler	Qilalugaq qernartaq
White whale	Delphinapterus leucas	5. hvidhvaler	Qilalugaq qaqortaq
Pilot whale	Globicephala melaena	6. grinde	-
Harbour porpoise	Phocoena phocoena	7. marsvin	Niisa
Other cetaceans	...	8. andre hvaler (specif.)	-
Walrus	Odobenus rosmarus	9. hvalrosser	Aaveq
Ringed seal	Phoca hispida	10. netsider	Natseq
Harbour seal	Phoca vitulina	11. spraglede sæler	Qasigiaq
Bearded seal	Erignathus barbatus	12. remmesæler	Ussuk
Beater (harp <lyr)	Phoca groenlandica	13. blåsider højst 1 år	(incl. in :)
Bedlamer (spotted)	- " -	14. blåsider over 1 år	Allattoq
Saddleback (old)	- " -	15. sortsider	Ataaq
Hooded seal	Cystophora cristata	16. klapmydser	Natørsuaq
Guillemot	Uria lomvia	-	Appa
Eider	Somateria mollissima	-	Miteq
King eider	Somateria spectabilis	-	Qingalik
Ptarmigan	Lagopus mutus	-	Aqisseq
Goose	Anser (albifrons)	-	Nerleq
Kittiwake	Rissa tridactyla	-	Taateraq
Little auk	Alle alle	-	Appaliarsuk

A pissanik
titartaivik
Fangstliste

nannginêrdlune pissat (Personlig fangst)

pissanik
titartaivik
Fangstliste

A

ukllok piniarfik:
(Fangstâr)

1/1 - 31/12 19...

igdlloxarfik/nunakarfik:
(By/bygd)

Kommune:

nannginêrdlune Õma pissai (Personlig fangst, foretaget af):

piniartox (Fanger):

CPR-normo: - - - - -

(inûssox (født den): .../... 19...)

piniartut tainekartut nanngingnêx pissait, Õmassut sùssusfnut piniarneruvdlo kanga pineranut ingmikòrtiterdlugit. (Anførte fangers personlige fangst, fordelt på dyreart og fangstperiode).

piniagkat dyreart	uvdlut pissa- karffit fangst- periode	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	okautigiumassat (åma "arferit avdlat" xavsiunere sùnerilo, åma tainekardlune nunagissap avatåne erkaringsåne pini- artarffit). Bemærkninger (herunder antal og art af "andre hvaler" samt notering af fangstpladser uden for hjemstedet).
		tugtut rener	nånut isbjørne	tikåguðlft våghvaler	xilalugkat kernertat narhvaler	xilalugkat karortat hvidhvaler	nfsarnat grinde	nfsat marsvin	arferit avdlat andre hvaler	aorffit hvalrosser	natsft netsider	xasigfissat spraglede sæler	takåmússat (ugssuit) remmesæler	åttå, åttånguit blåsider, højst 1 år	åttå, agdlagtåt blåsider, over 1 år	åttå, åttårssuit sortsider	natserssuit klapmydser	
Jan.	1.- 15.																	
	16.- 31.																	
Febr.	1.- 15.																	
	16.- 29.																	
Marta	1.- 15.																	
	16.- 31.																	
April	1.- 15.																	
	16.- 30.																	
Maj	1.- 15.																	
	16.- 31.																	
Juni	1.- 15.																	
	16.- 30.																	
Juli	1.- 15.																	
	16.- 31.																	
Aug.	1.- 15.																	
	16.- 31.																	
Sept.	1.- 15.																	
	16.- 30.																	
Okt.	1.- 15.																	
	16.- 31.																	
Nov.	1.- 15.																	
	16.- 30.																	
Dec.	1.- 15.																	
	16.- 31.																	
katitdlugit (I alt)																		

pissanut titartaivik 31. decemberip kingornatigut piårnerpånik tûnigûnexåsaok

Fangstlisten afleveres snarest efter 31. december

titartaissup arxa/Fangstlistefører

