

**RESULTS OF SEA OF OKHOTSK POLLOCK FISHERY MONITORING  
ACTIVITIES PERFORMED BY SCIENTIFIC OBSERVERS IN 2018**

Fact Sheet

*Prepared by Pollock Catchers Association based upon  
official reports of fishery research institutes*

Vladivostok  
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## **General information about monitoring and scientific observation activities in the pollock fishery in the Sea of Okhotsk in season A – 2018**

Season A 2018 of Pollock fishery was record-high in terms of the coverage and scope of fishery monitoring activities (total number of observers, processed and analyzed fishing operations, performed biological tests of pollock and by-catch species) compared with preceding years. In total, 23 scientific observers were engaged into monitoring activities during the Pollock fishery in the Sea of Okhotsk in December 2017 – April 2018. All Russian Far East fishery research institutes deployed observers to the fishery (TINRO-Center - 14 observers, KamchatNIRO – 6, MagadanNIRO – 2, SakhalinNIRO – 1).

Observers were based on board of 27 vessels operated by fishing companies (mostly associated with Pollock Catchers Association) engaged in the pollock fishery. The total number of vessels also included 4 trawler-catchers that delivered catch for processing to the mothership where the observer stayed. Two KamchatNIRO observers worked on Danish seiner vessels harvesting for pollock off Kamchatka.

### **Scientific observation activities by all institutes were focused on the following:**

- study of the distribution of pre-spawning and spawning pollock aggregations, identification of the timing of the beginning of mass spawning activities and localization of pollock spawning grounds in fishing subzones of the Sea of Okhotsk in the winter–spring period of 2018;
- monitoring of pollock spawning aggregations in order to track the dynamic of fishing parameters: catch per hour, per haul, per fishing ship-day;
- collection of materials on seasonal and bathymetric variability of pollock size and age structure and gamete maturity;
- estimation of juvenile pollock by-catch in main fishing fleet operating areas;
- qualitative and quantitative assessment of by-catch of other fishes and invertebrates;
- registration of marine mammal and bird capture and death through engagement with fishing gear;
- collection, analysis and submitting of day-to-day information on fishing fleet performance in the pollock fishery to TINRO-Center and the Federal Fisheries Agency.

Scientific observers worked a total of 1312 vessel/days and processed 2000 hauls (operations). The observers conducted more than 311,000 size measurements, 15,200 full biological analysis of pollock. More than 2200 at-sea observation stations were carried to monitor sea birds and marine mammal accidental by-catch and interaction with the gear.

*Monitoring and data collection activities conducted by scientific observers  
in the SOO Pollock Fishery in 2018*

	2016	2017	2018
Number of observed hauls (operations)	769	1004	<b>2000</b>
Weight measurements of pollock, individuals	67985	143906	<b>311 098</b>
Biological analysis of pollock, individuals	2214	9122	<b>41 197</b>
Stations for observation of seabird and marine mammal by-catch and interaction	425	1440	<b>2215</b>
Fishery coverage by fishing operations	4.2%	5.6%	<b>10,02%</b>
Number of observers	13	18	<b>23</b>
Observation coverage by number of vessels	7.6%	10%	<b>14,6%</b>
Spatial and temporal scope of monitoring activities	70%	81%	<b>n/a*</b>
Fishery coverage by catch volume	-	90%	<b>n/a*</b>

\* - Calculation of spatial and temporal coverage scope will be provided in the TIRNO report.

**It can be credibly stated that fishery research institutes have obtained adequate and sufficient volume of scientific information about the dynamics of pollock fishery and catch, its biological characteristics, quantitative and qualitative composition of by-catch species as well as for monitoring of fishery effects on key components of the ecosystem.**

### Detailed table of scientific observers activities during the SOO Pollock fishery in 2018

№	Observer name	Institute	Vessel	Vessel Owner	Period		Number of days	Vessel/ days at sea	Number of hauls	Measuring		Biological analysis		Measuring other	Biological analysis other	Observation stations (birds & mammals)	
					Start	End				pollock	herring	pollock	herring				
1	Salov	TINRO	MRKT Boris Trofimenko	Akros	12.12.17	20.04.18	130	102	125	20358	1865	948		2943		250	
2	Ponomarev	TINRO	MRKT Vladimir Starzhinskyi	Roliz	12.12.17	20.01.18	40	15	20	3252	729	120	100			19	
3	Dederer	TINRO	MRKT Vladimir Starzhinskyi	Roliz	26.01.18	17.04.18	82	26	37	6917		193				26	
4	Chaykin	TINRO	BATM Ivan Kalinin	Sovgavanryba	22.12.17	06.04.18	106	65	78	18059	993	501	226	2595		60	
5	Zotov A.	TINRO	BATM Nikolay Chepik	NBAMR	22.12.17	28.02.18	69	34	57	8405	280		204	429		43	
6	Blyschak	TINRO	RKTS Kapitan Faveel	NBAMR	22.12.17	27.04.18	127	79	84	12279		426			657	359	
7	Lachugin	TINRO	BATM Pavel Batov	DMP-RM	21.12.17	21.05.18	152	91	106	22293				2493		168	
8	Gorynov	TINRO	BATM Borodino	Intraros	22.12.17	28.04.18	128	83	120	24364	6698	404	101	2743		108	
9	Shapovalov	TINRO	BATM Borisov	Okeanrybflot	30.12.17	31.03.18	91	50	77	17841	303	340				117	
10	Obraztsov	TINRO	BATM Borisov	Okeanrybflot	30.12.17	16.02.18	92	48	22	4734	2528	132					22
	Obraztsov	TINRO	BATM Moskovskaya Olimpiada		17.02.18	31.03.18											
11	Yferov	TINRO	RKTS Kapitan Kolesnikov	PBTF	30.12.17	09.04.18	101	35	52	10563	993	450	50			65	
12	Zotov I.	TINRO	RKTS Kapitan Kolesnikov	PBTF	30.12.17	28.02.18	109	42	36	7519	1866	231	80	97			42
	Zotov I.	TINRO	BATM Bykhtra Preobrazhenie		01.03.18	17.04.18											
13	Teterin	TINRO	BMRT Ostrov Iturup	Poronay	09.02.18	17.04.18	68	43	46	9960	1482	323	300			17	
	Teterin	TINRO	BMRT Pilenga	Pilenga	12.03.18	17.04.18											
14	Belydi	TINRO	BMRT Ostrov Iturup	Poronay	09.02.18	20.04.18	71	43	47	11257	1200	330	160				
15	Dzen	Sakh NIRO	Mothership Kapitan Efremov (STR Dmitry Shevchenko, Kalinovka, Sedanka, Sterlyad)	Dobroflot / FK Novyi Mir	29.01.18	03.05.18	95	57	49	9598	1037	4415	700			49	
16	Burlak	Magadan NIRO	BMRT Geroi Sheronintsy	Vostokrybprom	23.12.17	21.04.18	139	98	139	41619			645			139	
17	Omelchenko	Magadan NIRO	RTMKS Vasylyi Kalenov	Poronay	01.01.18	09.04.18											
18	Mikhalytin	Kamchat NIRO	BATM Mikhail Staritsyn	Fishing kolkhoz V.I.Lenin	25.01.18	02.05.18	98	60	133	14985	6673	1600	720	227	128	70	

19	Blokhin	Kamchat NIRO	BATM Mys Olytorskyi	Okeanrybflot	08.01.18	02.05.18	115	104	204	19705	6177	2100	704	-	283	195
20	Demchenko	Kamchat NIRO	BATM Baklanovo	Okeanrybflot	06.01.18	14.04.18	99	90	212	21126	7112	1800	-	-	-	175
21	Subbotin	Kamchat NIRO	RTMK Pert I	Tralflot	12.01.18	16.04.18	95	83	195	14031	1261	742	230	-	31	130
<b>Total mid-water trawl fishery</b>								<b>1248</b>	<b>1839</b>	<b>298865</b>	<b>41197</b>	<b>15055</b>	<b>4220</b>	<b>11527</b>	<b>1099</b>	<b>2054</b>
22	Korobov	Kamchat NIRO	RS Sibir (Danish seiner)	Sfera-Marin	23.01.18	10.04.18	78	44	103	8040	-	-	-	1582	-	103
23	Veselov	Kamchat NIRO	STR Ogni (Danish seiner)	Kamchattralflot	29.01.18	18.03.18	48	20	58	4193	-	150	-	2558	148	58
<b>Total Danish seiner fishery</b>								<b>64</b>	<b>161</b>	<b>12233</b>	<b>0</b>	<b>150</b>	<b>0</b>	<b>4140</b>	<b>148</b>	<b>161</b>
<b>Total SOO pollock fishery</b>								<b>1312</b>	<b>2000</b>	<b>311098</b>	<b>41197</b>	<b>15205</b>	<b>4220</b>	<b>15667</b>	<b>1247</b>	<b>2215</b>