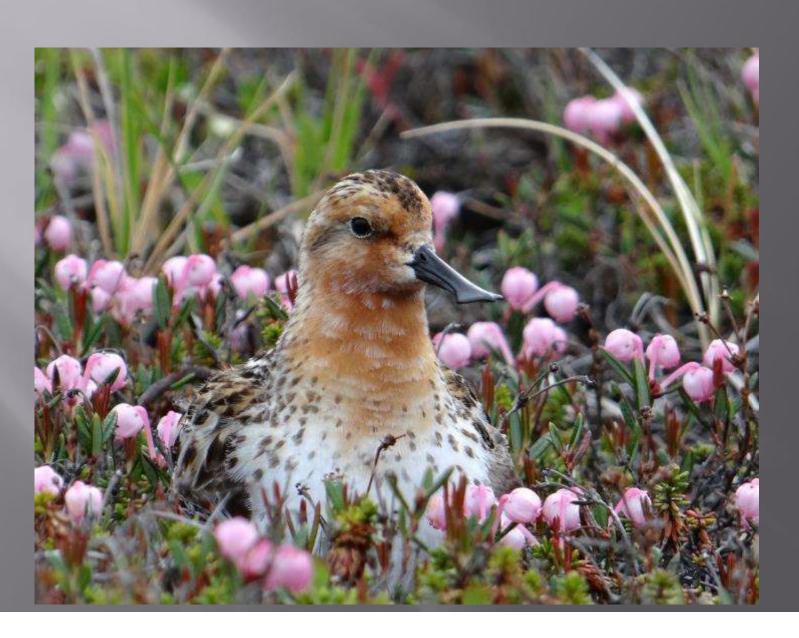
Spoon-billed Sandpiper survey and conservation in Russia in 2019-2022









Spoon-billed Sandpiper survey and conservationin Russia in 2019-2022

Elena Lappo, Pavel Tomkovich, Egor Loktionov, Anton Ivanov, Nikolay Yakushev, Leonid Rybalov, **Dmitriy Dobrynin**, Evgeny Syroechkovskiy Yury Gerasimov, Ivan Tiunov, Aleksandr Matsyna, Zoya Revyakina, Vladimir Zykov, Vladimir Pronkevich, Yury Gluschenko, **Dmitriy Korobov**



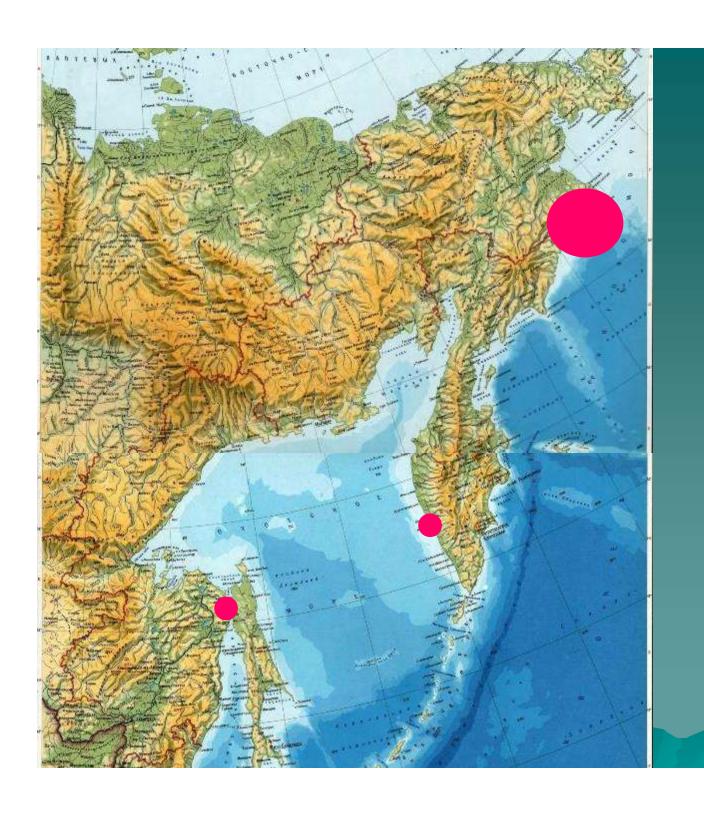




ENDANGERED in 2005
CRITICALLY ENDANGERED
in 2009

Flagship Species for the Flyway conservation





Main points of SBS activity on Far-East of Russia in 2019-2022: CHUKOTKA

Meinypilgyno area – the key breeding site



Main directions of SBS conservation work in the breeding grounds in Russia in 2019-2022:

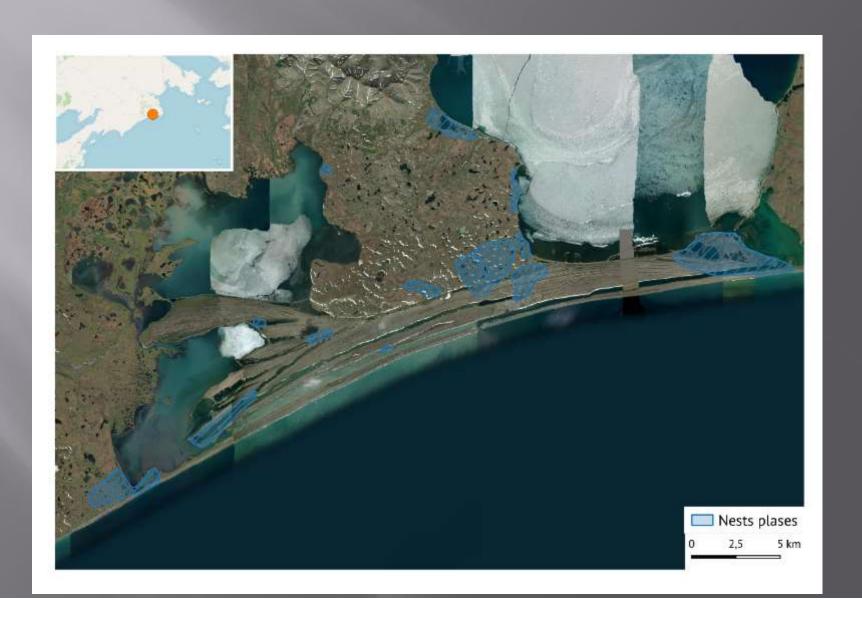


The Spoon-billed Sandpiper (SbS)

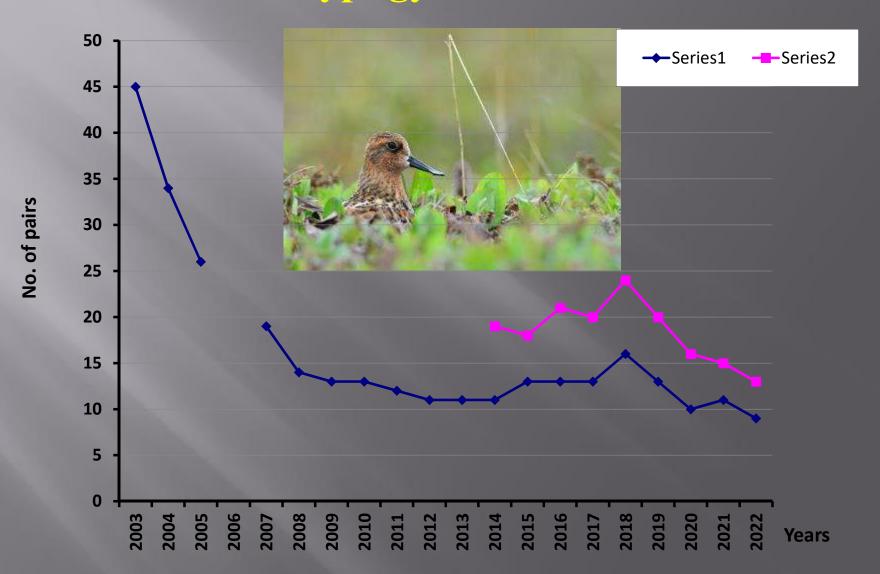
- Monitoring of the key breeding sites,
- Breeding biology, productivity/survival
- Predation pressure and other threats;
- Colour flagging and ringing programs;
- Keeping breeding records Data Base;
- Planning of protected areas in the breeding grounds
- Education, awareness and advocacy work;
- Head Starting programme;
- Collection of samples and genetic analysis;
- Ringing at Kamchatka stopover
- GIS modelling, Habitat change
- Food study: soil invertebrates;
- Surveys of the unknown breeding grounds in Chukotka, – planningfor 2023;

Eurynorhynchus pygmeus (L., 1758)

SbS spatial distribution in the monitoring area near Meinypilgyno in 2003–2022 ("nests places").



SbS population estimates in the monitoring area near Meinypilgyno in 2003–2022.

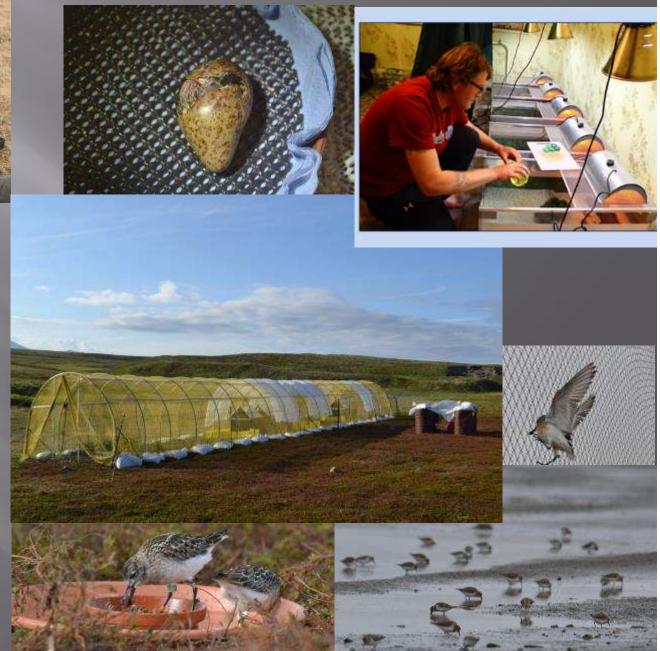


HeadStarting project 2012-2021



- Collecting eggs
- Incubation
- Rising up of the chicks (inside and at the pen)
- Realize and postrealize monitoring





Results of the HeadStarting Project

Numbers of HS SBS released in 2012–2021 and returned in 2014-2022 to the natal area in subsequent year(s).

	No. of No. of eggs chicks			Young released		No. of birds returned Total 29								
=Yea r	collect ed	hatche d	No.	% of eggs	2014	2015	2016	2017	2018	20 19	2020	2021	2022	
2012	17	10	9	70.3	1	1	0	0	0	0	0	0	0	
2013	20	17	16	75.0	0	3	2	0	0	0	0	0	0	
2014	32	27	26	83.9	-	1	2	2	2	2	0	0	0	
2015	33	29	28	84.8	- 1	-	1	4	1	1	1	1	0	
2016	35	31	30	85.7	-	-		2	3	2	2	1	1	
2017	38*	30	30	83.3		100		39 123	0	1	1	2**	2	
2018	35	25	22	62.8	- 1					0	0	1	0	
2019	38	26	23	60.5	-				1	-	0	5	2	
2020	30	27	22	73.3	-				HE	-	-	0	2	
2021	38	29	28	73.7	11-7		June			-	¥1.	-	0	
2022	0	n/a	n/a	n/a		-	1	-	-	-	-	-	-	
Total		251	234	84.2	1	5	5	8	6	6	3	10	7	

Note: "_" – not applicable; * – two thin-shelled eggs were damaged; ** – one additional breeding bird was found in a remote area, which likely was missed in the previous summer(s).

HeadStarted SBS find their way back to the

breeding grounds

Return rate of HS and wild chicks

(the upper number indicates the cumulative number of chicks returned by the year, the lower figure shows the number of birds in the age of 2+ years that potentially could return)



SbS male 'White EH' hatched and raised in captivity in 2020, on its territory on 6 June 2022.

SbS male 'White XC' hatched and raised in captivity in 2020, returned to the natal area in 2022, but remained solitary.

Since 2017 head-started birds has returned and bred successfully in pairs

Colour-marking of wild adult SbS

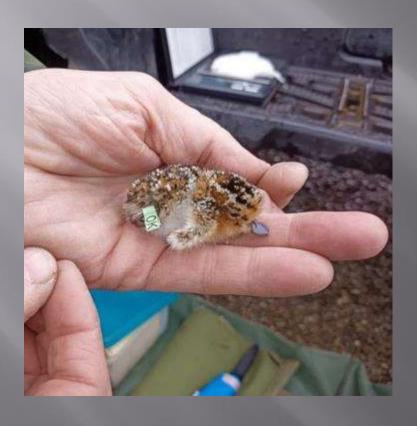
Numbers of breeding Spoon-billed Sandpipers colour-marked as adults near Meinypilgyno in 2013–2022 and recorded back to the study area in subsequent year(s).

	No.	No. returned (M+F)								
Year	marked (M+F)*	2014	2015	2016	2017	2018	2019	2020	2021	2022
2013	8 (4+4)	4 (2+2)**	6 (3+3)	3 (1+2)	2 (1+1)	2 (1+1)	2 (1+1)	2 (1+1)	0	0
2014	14 (7+7)	- 9	7 (4+3)	6 (4+2)	5 (3+2)	3 (2+1)	1 (0+1)	1 (0+1)	1 (0+1)	1 (0+1)
2015	9 (4+5)	-	-	5 (3+2)	4 (2+1)	5 (3+2)	3 (2+1)	2 (2+0)	2 (2+0)	2 (2+0)
2016	11 (7+4)				7 (4+3)	5 (2+3)	4 (1+3)	2 (0+2)	2 (0+2)	1 (0+1)
2017	7 (3+4)				ĺ	5 (2+3)	3 (1+2)	4 (1+3)	4 (1+3)	4 (1+3)
2018	8 (4+4)				-		7 (4+3)	5 (2+3)	5 (2+3)	2 (1+1)
2019	7 (5+2)				-	3.	1 -	4 (3+1)	4 (3+1)	2 (1+1)
2020	2 (2+0)				- 1		N -		1 (1+0)	1 (1+0)
2021	1 (0+1)				4	11-11			-	1 (0+1)
2022	1 (1+0)			R A			4. - 1.		-	-
Total	68	6	13	14	19	20	20	20	19	14
Totat	(38+30)	(3+3)	(7+6)	(8+6)	(11+7)	(10+10)	(9+11)	(9+11)	(9+10)	(6+8)
Resighting of marked birds alive in previous year		50%** (75%)	72.2%	63.6%	76.0%	76.9%	71.4%	74.1%	86.4%	73.7%

Note: \leftarrow not applicable; \leftarrow M = male, F = female; \leftarrow this figure is an underestimate because one pair which was observed breeding locally in 2015 and 2016 has not been recorded in 2014.

Colour-marking of SbS wild chicks

Numbers of wild Spoon-billed Sandpiper chicks ringed and colour-marked with engraved leg flags in the Meinypilgyno vicinity in 2013–2022 and numbers of previously colour-marked birds returned back to the natal area.



Year	No. marked (Lime engraved leg flag)	No. recorded back into the natal area				
2013	3	# 1				
2014	19					
2015	13	1				
2016	38	4				
2017	16	7				
2018	30	8				
2019	26	6				
2020	20	7				
2021	18	11				
2022	13	8				
Total	178	21 individuals				

Flagging of a SbS chick on 05 July 2022.

Study of Spoon-billed Sandpiper diet and soildwelling invertebrates population

Wolf spiders:

Crane flies:

Carrion beetles:

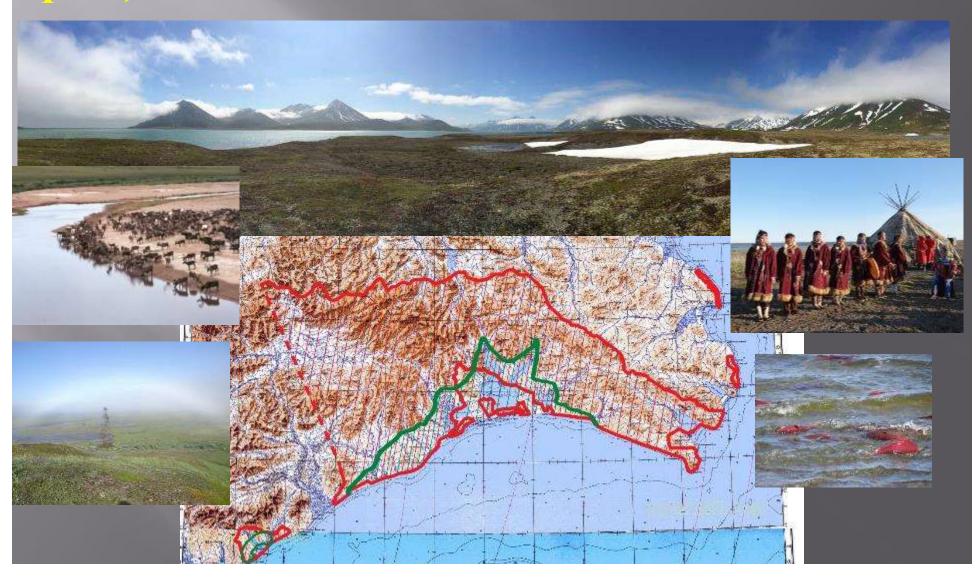
Nonbiting midge

Ground-beetles



The year 2021 was notable for a high level of flooding in all former Spoon-billed Sandpiper feeding sites. Spoon-billed Sandpiper was visually observed in the beginning of June pecking at invertebrates from water of "floating" invertebrate groups. The real food items of Spoon-billed Sandpiper were: springtails, ground beetles, rove beetles and wolf spiders (Lycosidae).

Nature Park "The Land of Spoon-billed Sandpiper" – the area decreased from 1.5 millions ha (15,000 sq.km) in more than 5 times.





•Телеграм-канал газеты «Крайний север» - https://www.ks87.ru/nauka-i-turizm/165/14448





• Новости Чукотки - info@prochukotku.ru -

https://prochukotku.ru/news/priroda/uchyenye_zavershili_nabl yudenie za krasnoknizhnymi kulikami na chukotke/

•Телеграмм-страница Губернатора ЯАО - Р.В.Копина

https://t.me/s/romankopin?q=%D0%BB%D0%BE%D0%BF%D0%BB%D0%BF%D



•Справятся сами - Проект по спасению редкого кулика на Чукотке изменил формат (prochukotku.ru)

•Новости Чукотки -

info@prochukotku.ru - На Чукотке приступили к кольцеванию

птенцов краснокнижного куликалопатня (prochukotku.ru)





 $\bullet \underline{\text{https://birdsrussia.ru/news/novosti-organizatsii/zavershaetsya-chukotskaya-ekspeditsiya-rosip-po-izucheniyu-i-okhrane-kulika-lopatnya/$

•https://birdsrussia.ru/news/novosti-organizatsii/itogi-chukotskoy-ekspeditsii-rosip/

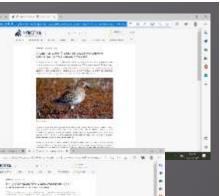
Сайт Инсгитут Географии РАН - http://www.igras.ru/news/3312











Awareness work: Wildlife Table Game











The expedition team in 2022:



International and Russian expedition team of BirdsRussia in Chukotka in 2018-2021





2018 - International team...

2019 – Russian team...

2020 - Russian team....

2021 – Russian team....

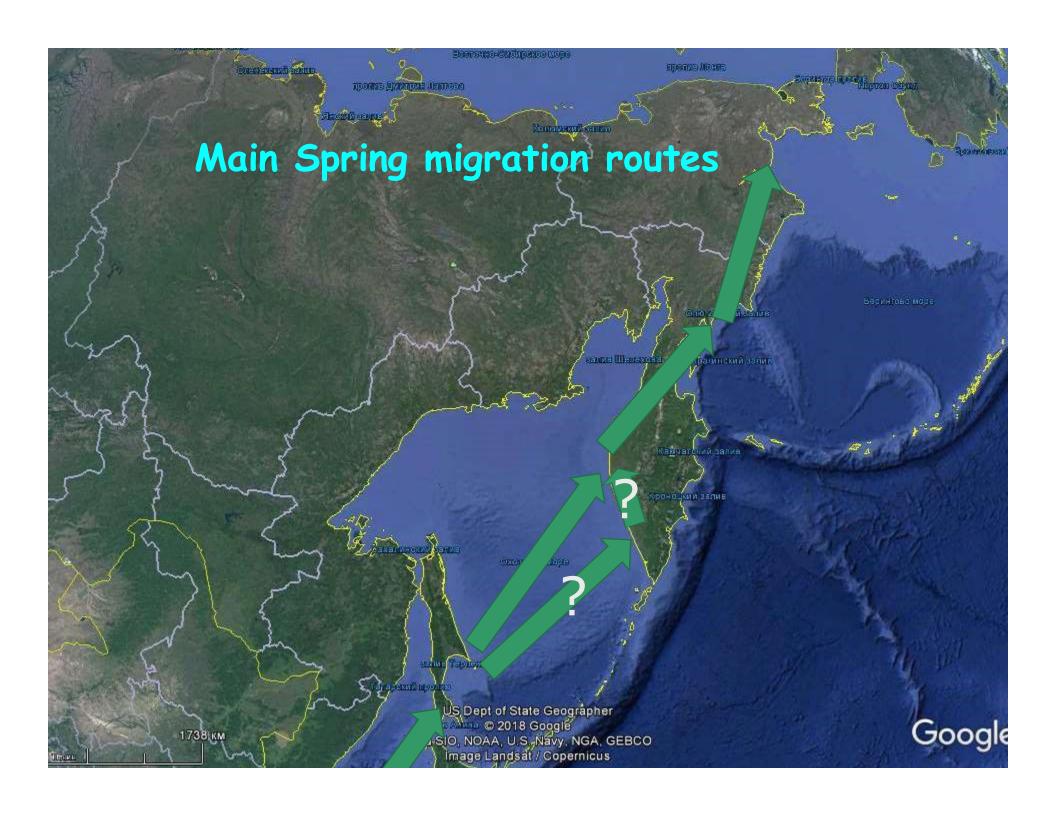


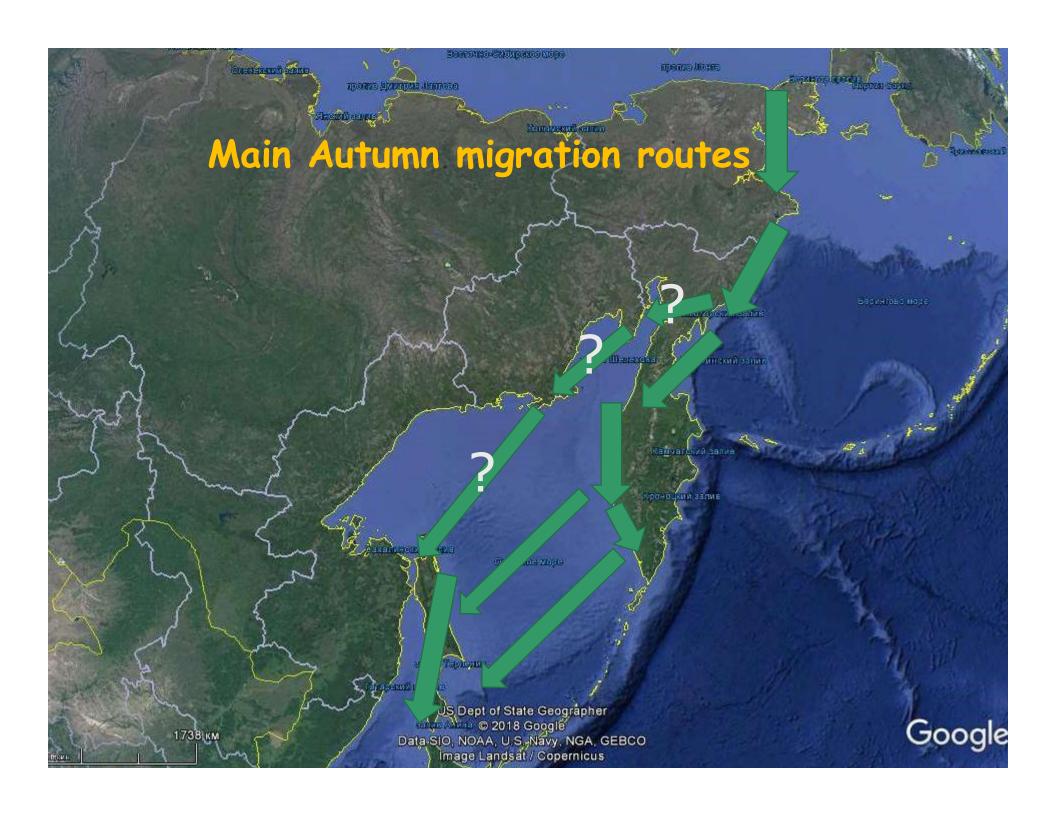


Thank you very much for your attention!

BirdsRussia team is grateful to all supporters of the project:
MCF, MHS, RSPB, WWT, NABU, BCF, HE, Chukotka administration,
and others as well as volunteers and local people, who all made the success of the
field work. MCF, MHS, WCS, Arccona & NABU are the main donors of
the project of SBS conservation in Chukotka in 2022









Main points of SBS survey and observations, Russian Far East in 2019-2022:
West KAMCHATKA

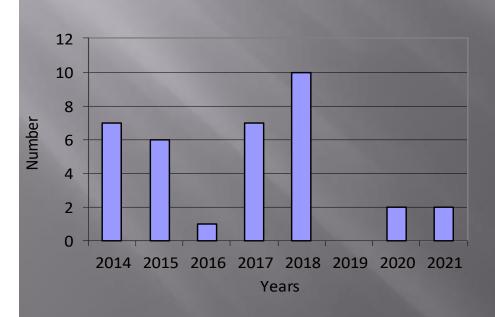
Monitoring of key wader stopover sites with banding and color flagging.

SBS migration studies since 2014.

In 2019-2021 3 300 waders were caught and ringed.

With 4 SBS: 2 in 2020 and 2 in 2021

Y.N. Gerasimov, E.R. Dukhova, V.M. Kovaleva, Yu.R. Zavgarova







In 2021, first Spoon-billed Sandpipe (UE) with weight of 23.7 g (including flag) was caught 21.30 on 16 August; second bird (UK) with weight of 28.6 g (including flag) was caught 7.40 on 25 August.

Vorovskaya River lagoon, Kamchatka

2014-2021

Monitoring of key wader stopover sites with banding and color flagging. SBS migration study

Vorovskaya River lagoon, Kamchatka 2018-2021







Special thanks to Nigel Clark for plastic and individual flags for SBS supporting











































31 Spoon-billed Sandpipers were caught in 2014-2018 among 11 400 waders (for 5 years)

And only 4 Spoon-billed Sandpipers were caught in 2019-2021 among 3 300 waders (for 3 years)









Main points of SBS survey and observation, Russian Far East in 2019-2022:
Khabarovsk Region

South migration of 40 waders species total number 360 000 in August 2022. 12 SBS sightings in Schastya Bay, Khabarovsk Region, 2022 by Yu. Gluschenko, D. Korobov, V. Pronkevich SBS with flag 24











Thank you very much for your attention!