MINISTRY OF NATURAL RESOURSES AND ENVIRONMENT

OF THE RUSSIAN FEDERATION



All-Russian Research Institute for Environmental Protection

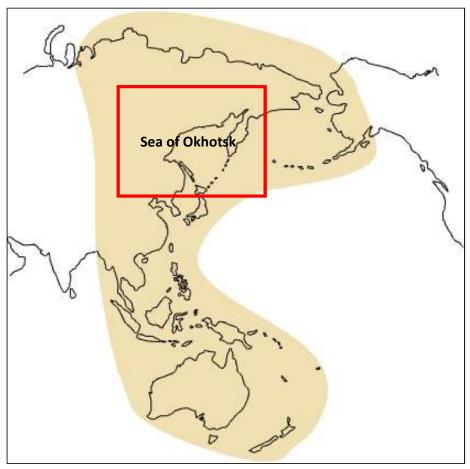


Long-distance migrating waders in the northern part of the Okhotsk Sea

Dorofeev Dmitry Ivanov Anton

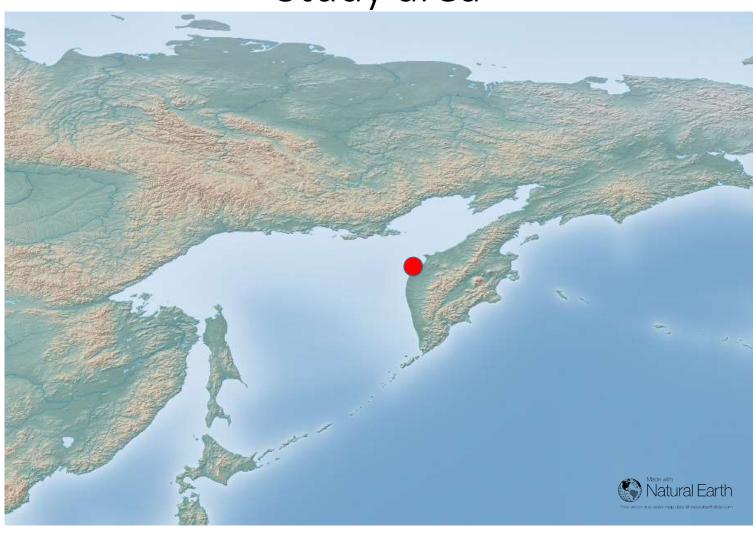
11th meeting of partners EAAFP 12 March 2023 Brisbane, Australia

EAAF

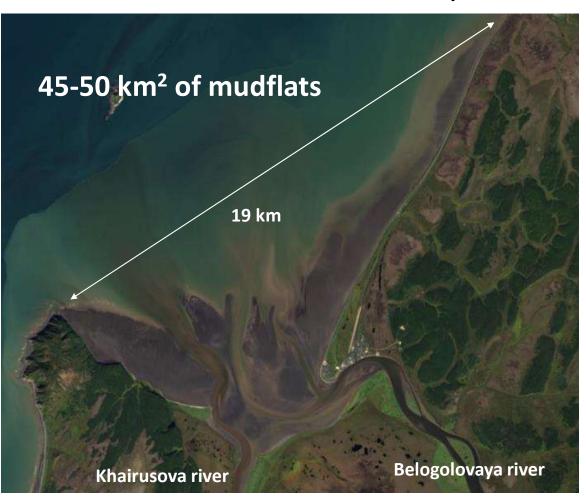


http://www.awsg.org.au

Study area

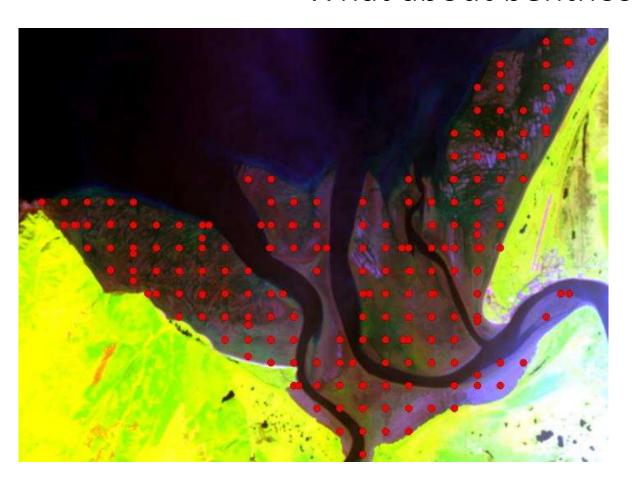


Study area



- The largest known square of mudflats on the western coast of Kamchatka
- Hight density of benthos
- Up to 34 waders species, including EN and CR (Spoon-billed Sandpiper)
- On the peak of migration up to 28 000 of waders
- Most numerous are long-distance migrating waders

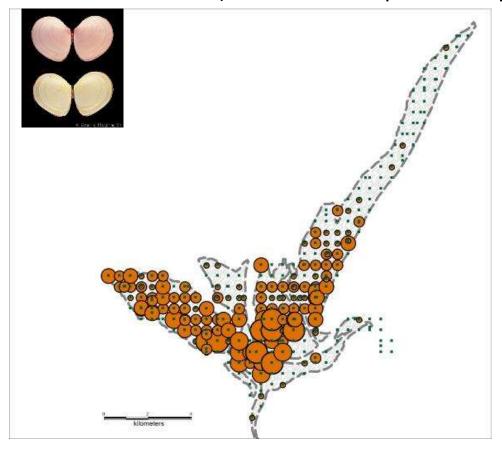
What about benthos?

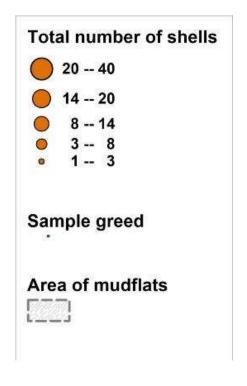


- Sample greed 500m
- More than 280 samples
- High density of benthos
- High density of Macima balthica – main prey some wader species

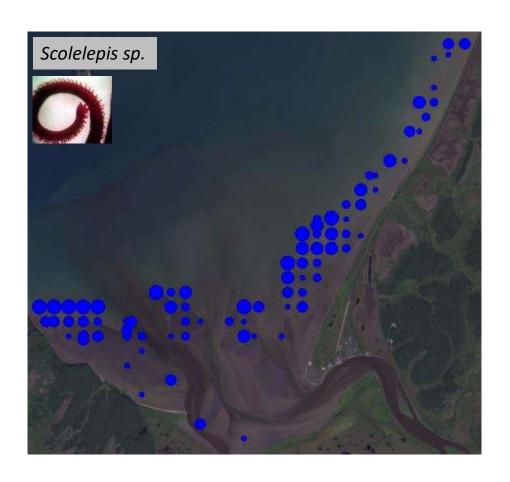
Distribution of Macoma balthica

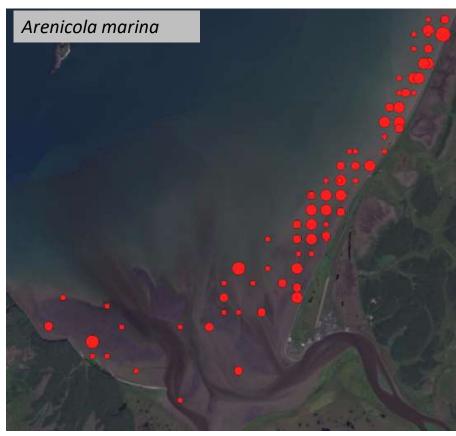
(individuals per sample)





Distribution of worms

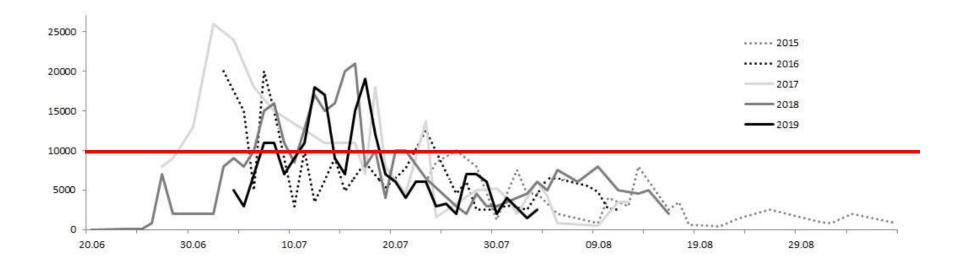






Great Knot

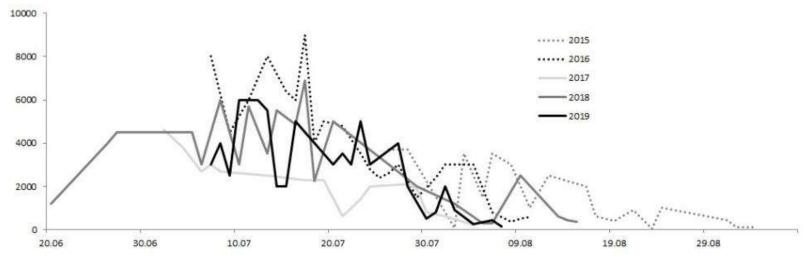
- up to 8% of world population on the peak of migration
- from the end of July to beginning of August not less than 1% of world population







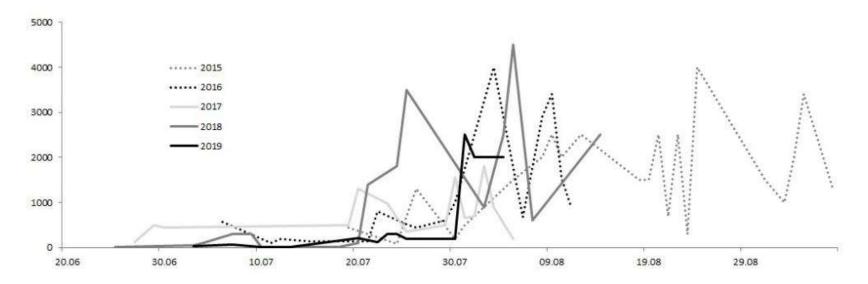
- up to 9 000 on the peak of migration
- peak of migration in July





Anadyr Bar-tailed Godwit

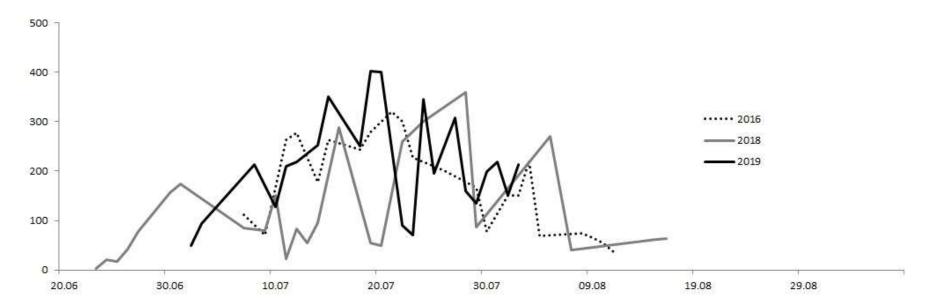
- up to 4 500 on the peak of migration
- 45% of world population
- peak of migration in August





Far Eastern Curlew

- up to 500 on the peak of migration
- peak of migration in July



Catching and banding

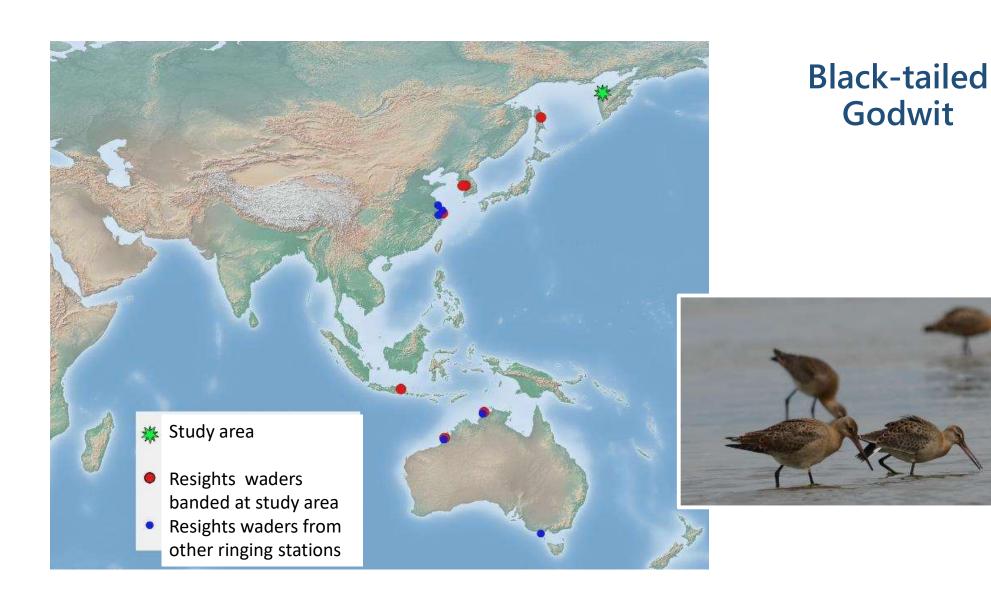


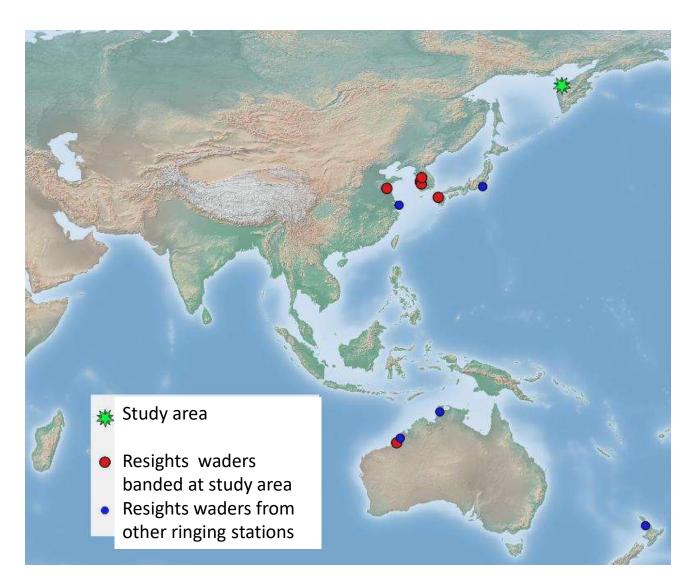
In 2016-2022 we marked more than 1200 waders with engraved leg flags



Scanning and reading ELF and combinations







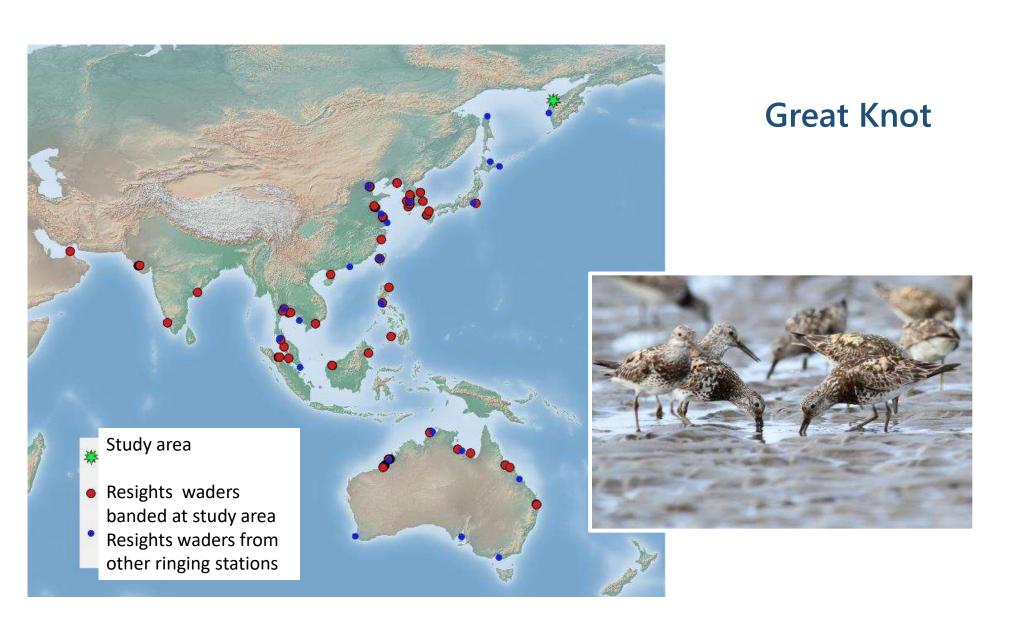
Anadyr Bar-tailed Godwit

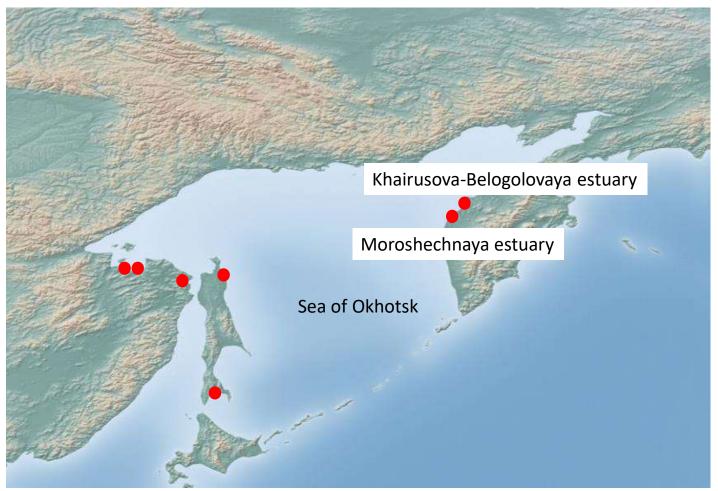


* Study area Resights waders banded at study area Resights waders from other ringing stations

Red Knot







 Stopovers of long-distance migrating waders

Conclusions

- Khairusova-Belogolovaya estuary is a key site for Great Knot and three long-distance migrating waders
 - Far-Eastern Curlew, Black- and Bar-tailed Godwits
- According to Ramsar convention criteria this is the site of the international importance
- According to resights Great Knot from all wintering grounds use this area
- Vast tidal complex with rich benthos complex is unique for Northern part of the Okhotsk sea
- Nowadays this area doesn't have any protected status

















All-Russian Research Institute for Environmental Protection





















Publications

short communication - Woder Study 127(1): xx-xxx doi:10.18194/ws.00179

To Russia with love - first record of Surfbird Calidris virgata in Eurasia

Edward M. Stubbings¹, Anton Ivanov^{2,5}, Ekaterina Khudyakova⁴ & Dmitry Dorofeev^{2,5}*

- 125 Central Crescent, Hethersett, Norfolk NR9 3EF, UK
- ⁴Timiryazar State Biological Museum, Malaya Gravinskaya, 15, Moscow 123242, Russia
- All-Russian Research Institute for Environmental Protection (ABRIEP), 36 km MKAD, Moscow 117628, Russia
- ⁴Inanovo State University, Ermaka, 39, Ivanovo 153025, Russia
- ²Mascow State University, Biological Department, Lemnikiye Gory, 1 str 112, Mascow 11999), Russia
- *Corresponding author: dmitrdorofeev@gmail.com

Keywords: distribution, Great Knot. Kamchatka, Khairusova Belopplovava estuary, vagrant

the Khatrusova-Belogolovaya river estuary (57,07°N, 156,69°E) on the Kanachatka Peninsula in the Bussian Far East, Here we provide details about this first record of a Surfbürd in Eurasia.

The Surfried breeds in Alaska, USA and northwestern Canada, and winters along the Pacific east coast between southern Alaska and anothern Chile. It nests in rocky alpine tundra and prefers rocky surf-pounded coastlines during migration and in winter (Senner & McCaffeey 1997). It is morphologically similar to the Great Knot Calidris tenuirpotris and has a similar breeding ecology to both Great Knot and Red Knot C contains (Piersma et al. 1996, Tomkovich et al. 1998).

The Khairusova-Belogolovaya estuary is well-known as one of the main wader stopovers on the Kamchatka peninsula (Dorofeev & Kazzetsky 2013). On an annual basis since 2015, systematic attempts have been made to assess the numbers, phenology and movements of waders

In July 2019, a Surfoird Calidris virgata was observed on observed and photographed it foraging in mixed-species flocks of Great Knots and a few Red Knots, the two congeners it could be confused with. In summary, these features included: a relatively short and stout bill with the characteristic yellow base to the lower mandfile (Fig. (a); a broad white wing bar at the base of the prima and secondaries (Fig. 1b); stundy yellow legs (Fig. 1a-c); diffuse dark amudging on the breast (Fig. 1a,c); a ulate white base of the tail offset by a broad black subtermenal band and narrow white tips to the rectrices (Fig. tbl; and the overall paler forehead, supercilium, cheek, and threat (Fig. 1c). Compared to the accompanying Great Knots, it was similar in size and appearance but slightly more compact, However, it was the shorter, yellow-board bill and yellow legs that were immediately obvious and strikingly different (Fig. 1c).

The paler forehead, supercilium, cheek and throat gave the bird a rather pale-headed appearance compared to the majority of Great Khots which were in breeding plumage. In flight, the broad white tail base and black

Post-breeding stopover sites of waders in the estuaries of the Khairusovo, Belogolovaya and Moroshechnaya rivers, western Kamchatka Peninsula, Russia, 2010-2012

Dmitry S. Dorofeev¹ & Fedor V. Kazansky²

* All-Russian Research Institute for Nature Protection (ARRINP), Znamenskoe-Sadki, Moscow, 117628 Russia dmitrdorofeev@smail.com

2 Kronotsky State Blosphere Reserve, Ryabikova St. 48, Elizovo, Kamchatskiv Kray, 68400 Russia, if hazansky@gmail.com

Dorofeev, D.S. & Kazansky, F.V. 2013. Post-breeding stopover sites of waders in the estuaries of the Khairusovo, Belogolovaya and Moroshechnaya rivers, western Kamchatka Peninsula, Russia, 2010-2012. Wador Study Group Bull. 120(2): 119-123.

Keywords: East Asian-Australasian Flyway, Kamchatka, waders, stopover site, resightings

During the northern summer and nummin seasons of 2010-2012 we collected data on the numbers of waders that stop on the estuaries of the rivers Khairusovo. Belogolovaya and Moroshechnaya on the west-central

Wader Study 126(2): xx-xx. doi:10.18194/ws.00147

A modified pull-net for catching Great Knot at roost sites

Dmitry Dorofeev^{1,2}, Alexander Matsyna³, Anton Ivanov⁴ & Ekaterina Khudyakova^{5,6}

- All-Russian Research Institute for Environmental Protection, 36 km MKAD 1 str 4, Moscow 117628, Russia dmitrdorofeev@email.com
- ²Moscow State University, Biological Department, Leninskiye Gory, 1 str 112, Moscow 119991, Russia Ecological Centre DRONT, P.B. 631, Niehny Novgorod 603001, Russia
- *Timiryazev State Biological Museum, Malaya Gruzinskaya 15, Moscow 123242, Russia
- Ivanovo State University, Yermak St. 39, Ivanovo Region, Ivanovo 153025, Russia
- ⁴Ivanovo State Agricultural Academy named after D.K. Belyoor, Sovetskaya Str. 45, Ivanovo Region, Ivanovo 153012,

Keywords: wader trapping. Red Knot, net trap, bird ringing

Trapping Great Knots Calidris tensirostris at the Khairusova-Belogolovaya river estuary in 2016 using mist nets was not very efficient, with only 14 birds being caught in 13 days. We therefore had to find another capture method. We could not use cannon nets (Minton 2003) as gunpowder is difficult to acquire in Russia and even harder to transport to the research site. In addition, the equipment required is heavy (Standen et al. 2014) and therefore difficult to transport to our site. We decided to try to use a pull net (called a Taynik in Rossia) and based our design on Bub (1991) and Noskov et al. (1984), adapted for Great Knot trapping at roost sites. Our pull net is very light, no more than 7 kg ready-assembled, and uses two elastic pulls, which make it very fast. It is silent and easy to install and can be operated by just two people.

Our pull net (Fig. 1) measures 4 x 5.8 m, with netting which is 5 x 6 m, but we would recommend using a larger piece of netting to give more 'bag.' The mesh size is 12 mm each side and the netting thread is 0.8 mm thick. A 7 mm diameter rope which does not have any give (we used a halyard) is tied to the front of the net (Fig. 1, A & B), with about 6-7 m of rope beyond the net on both sides. This is called the main rope (#1 in Fig. 1). A thin rope (3-4 mm in diameter) goes around the edge of the net and is attached in several places. Two rope loops are attached to the back of the net (D & E).

The pull net also includes two 'elastics' (#2 in Fig. 1; we use latex resistance bands that are designed for fitness

