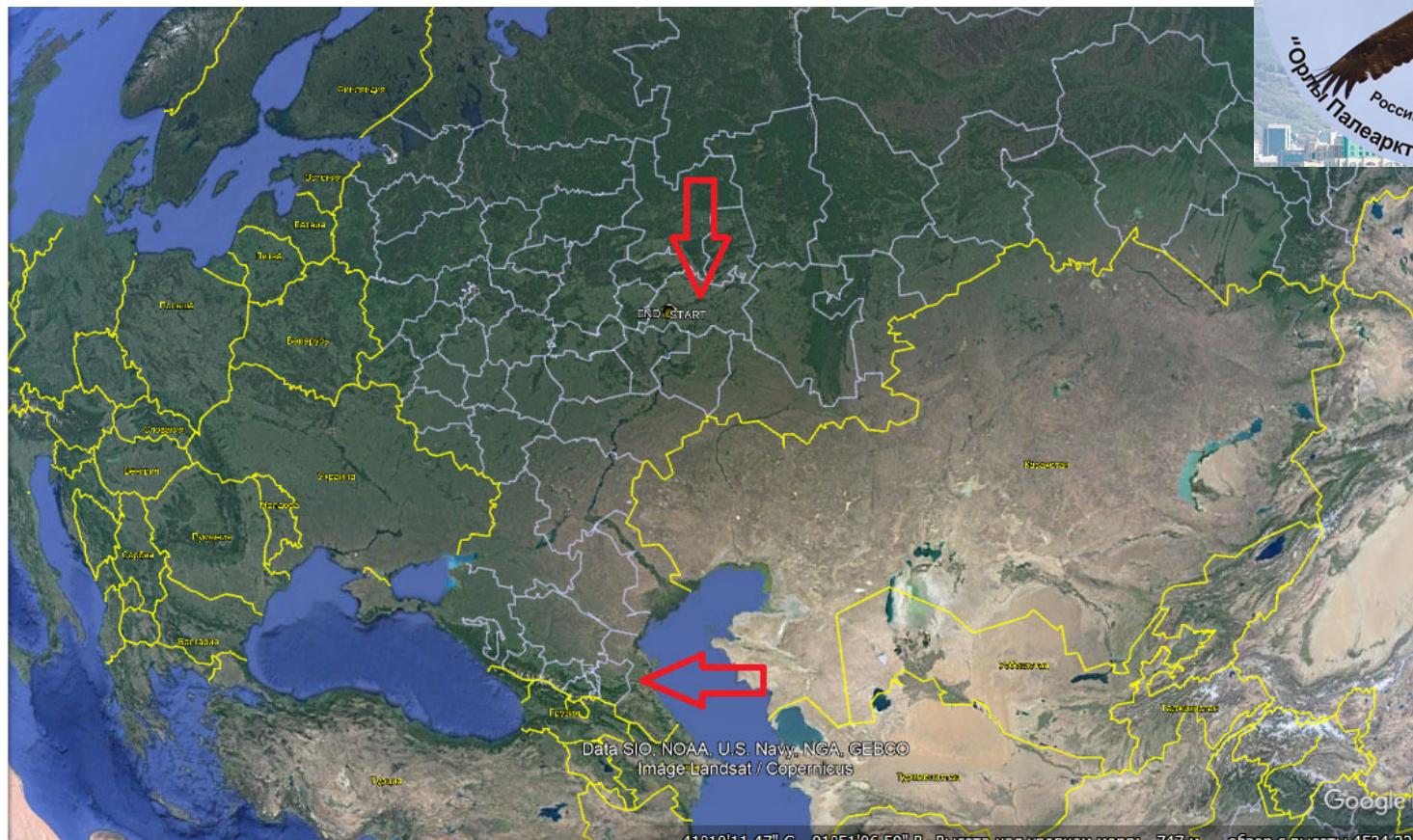


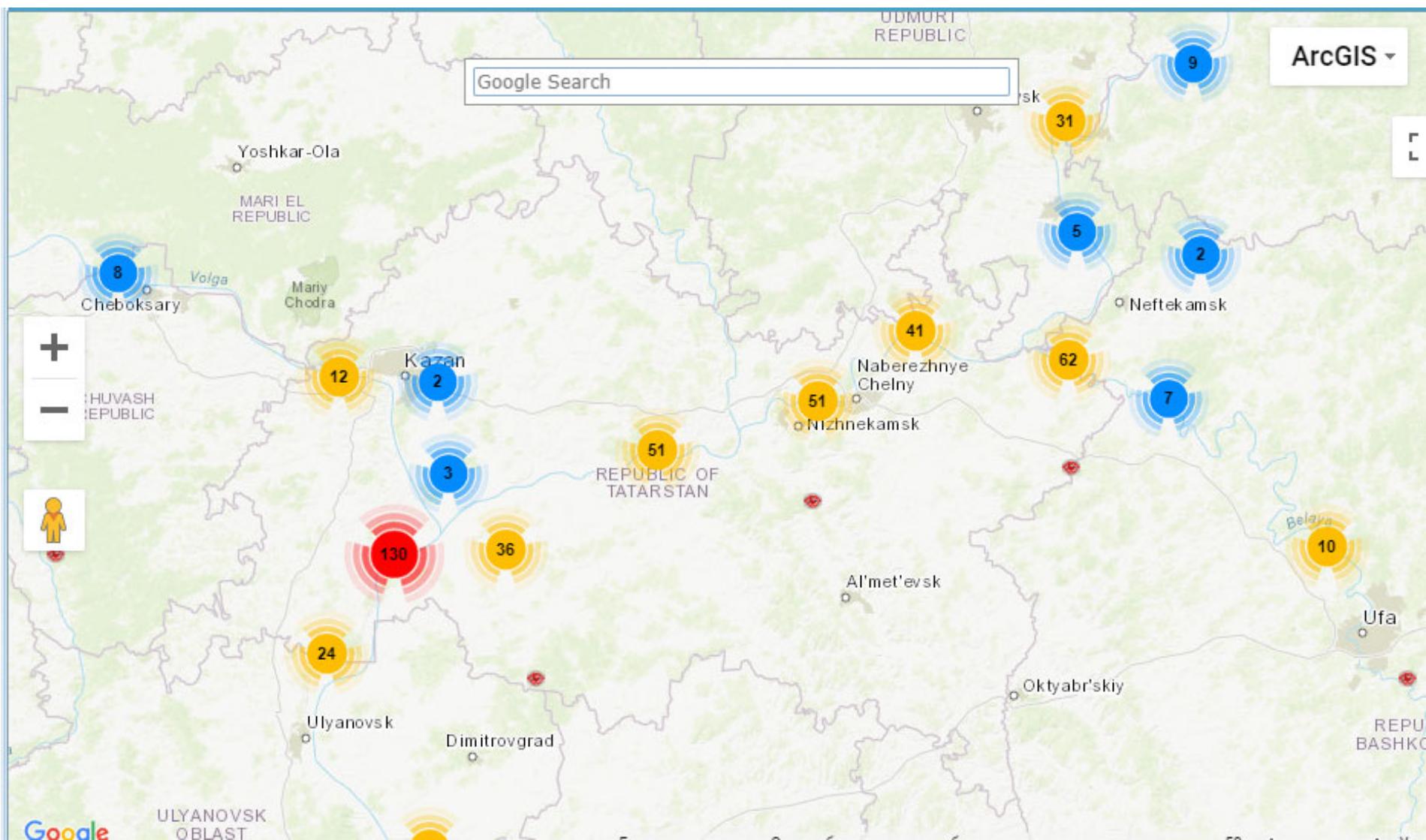
White-tailed Sea Eagle research in the Republics of Tatarstan and Dagestan



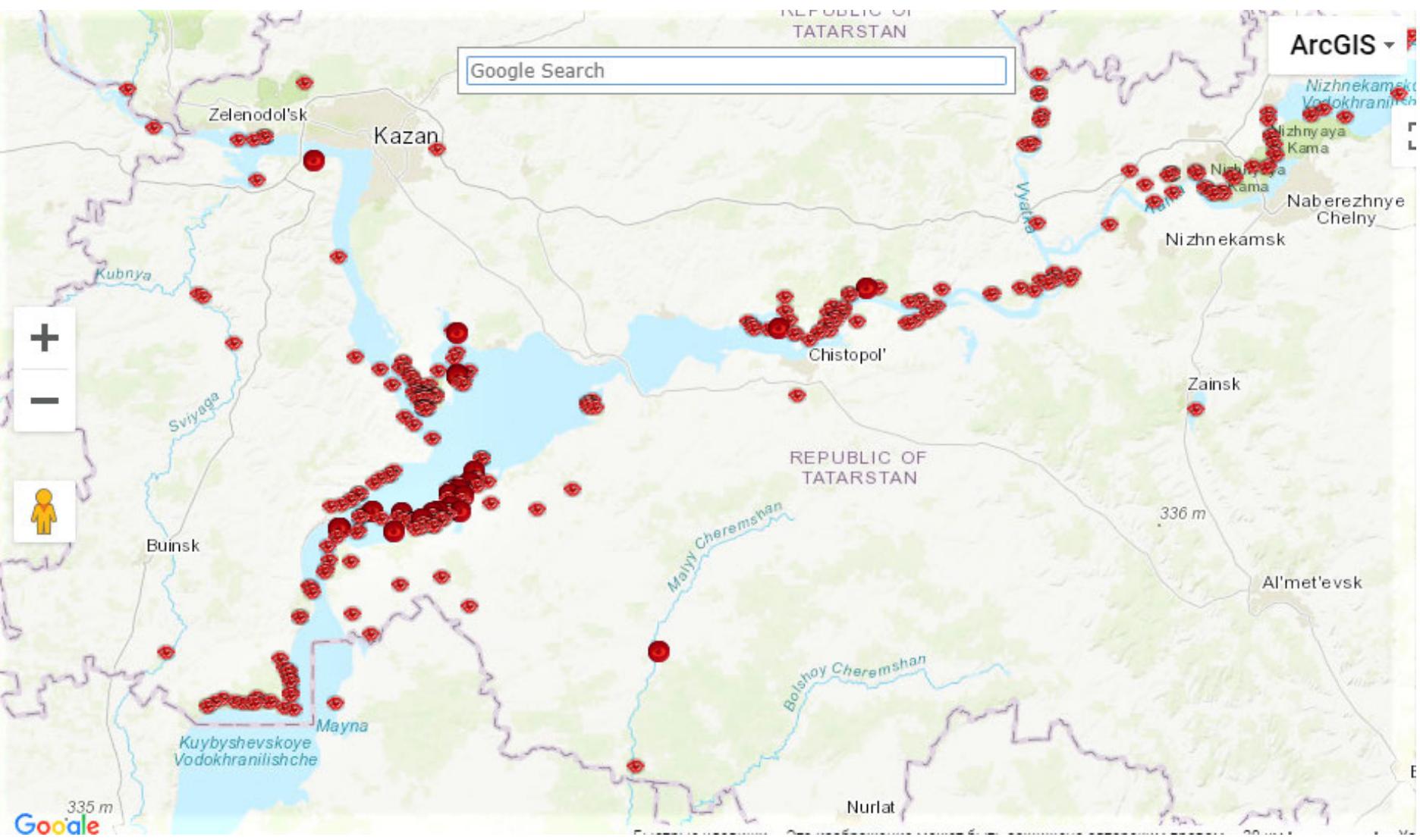
Researchers in Tatarstan: Rinur Bekmansurov*, Yuriy Gorshkov, Evgeny Kostin, Nadezhda Bekmansurova

Researchers in Dagestan: Gadzhibek Dzhamirzoev, Rinur Bekmansurov, Khadjaman Ismailov, Alim Pkhitikov

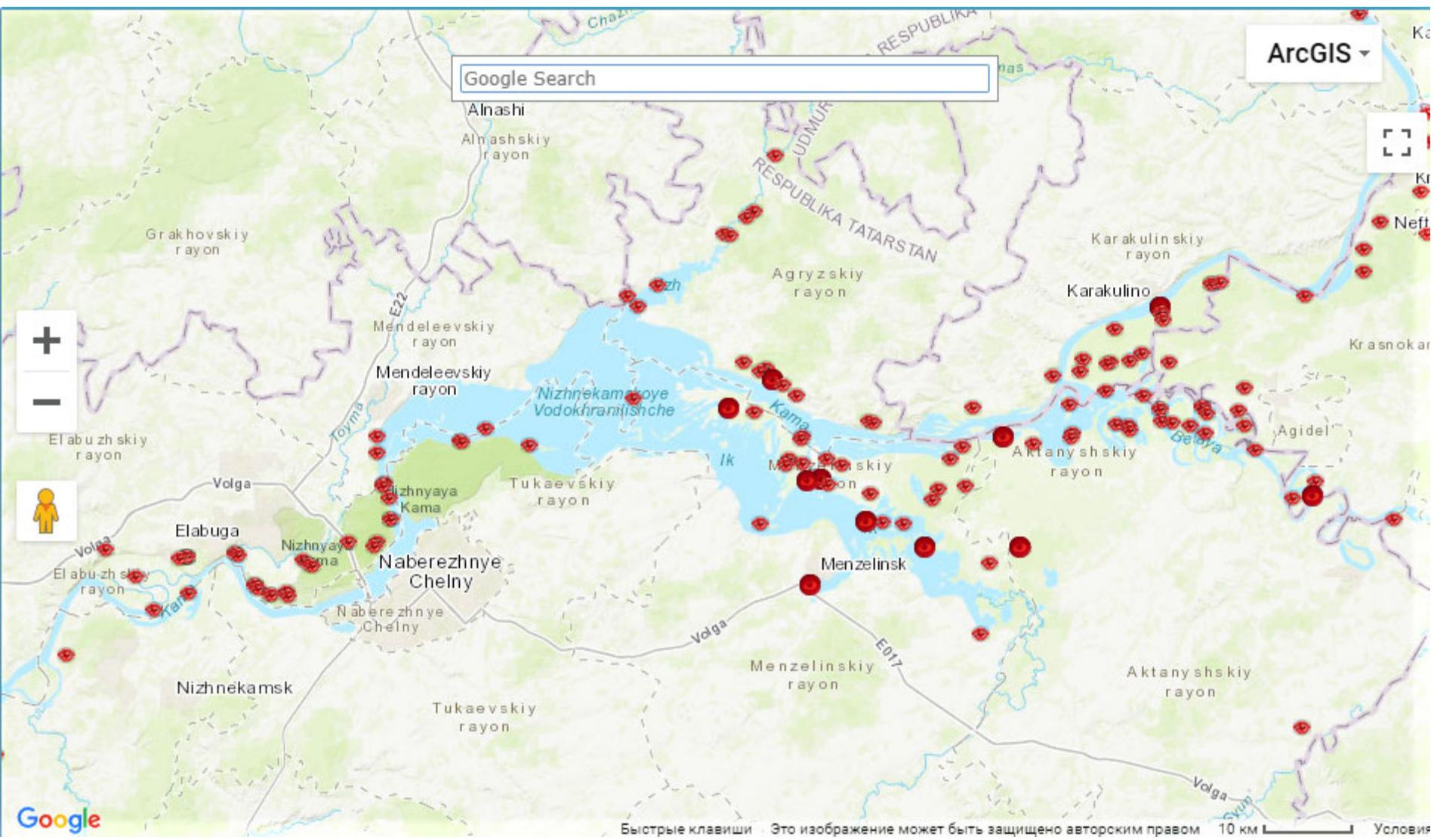
Information on 210 breeding territories of White-tailed Sea Eagles has been collected in Tatarstan



Nesting sites in the upper part of the Kuibyshev reservoir



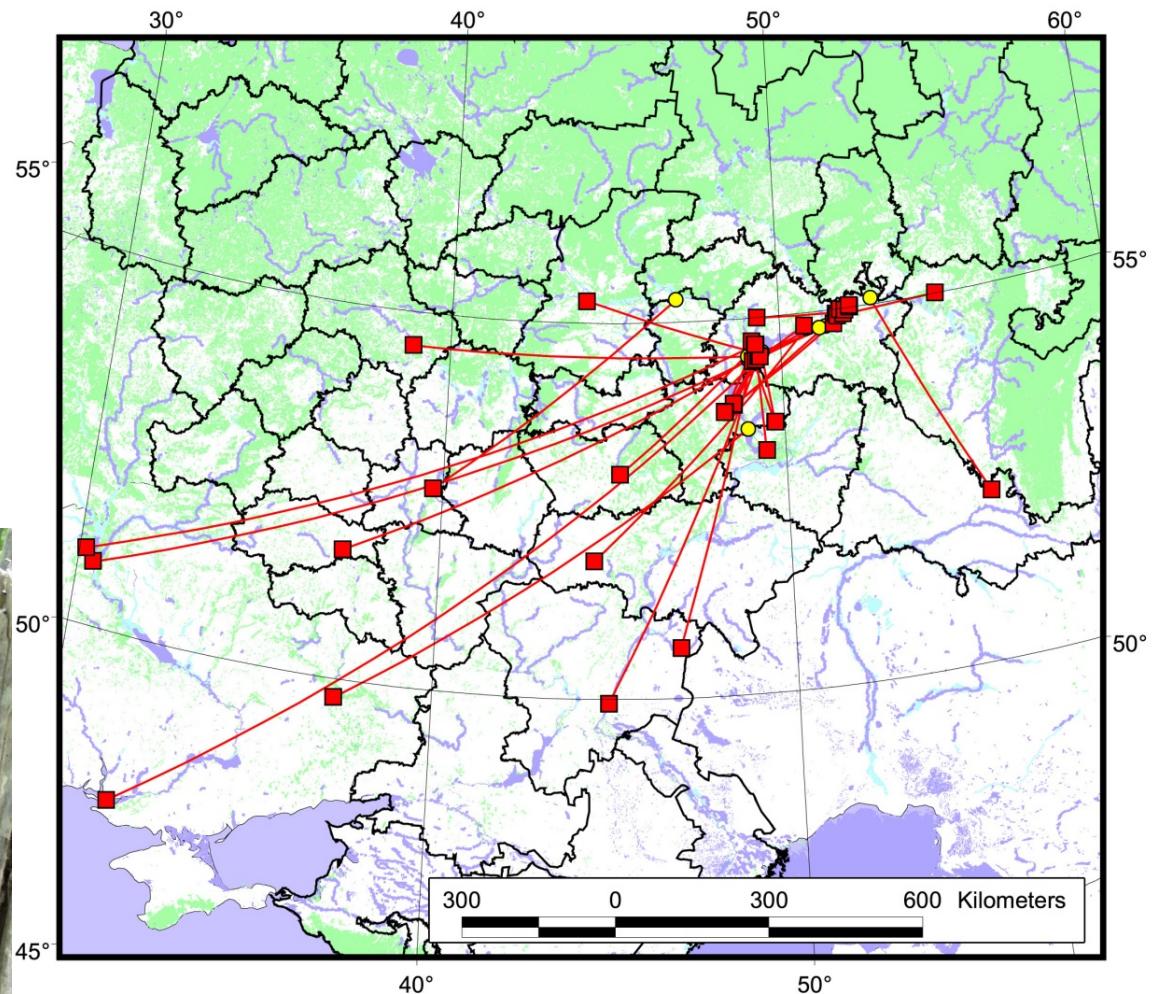
Nesting sites within the Nizhnekamskoye Reservoir







Tatarstan is a long-standing site for studying territorial relations by means of color ringing



Native birds in the natal area



• Фото Дмитрия Никифорова

Native birds in the natal area



Photo by Vyacheslav Lozhkin





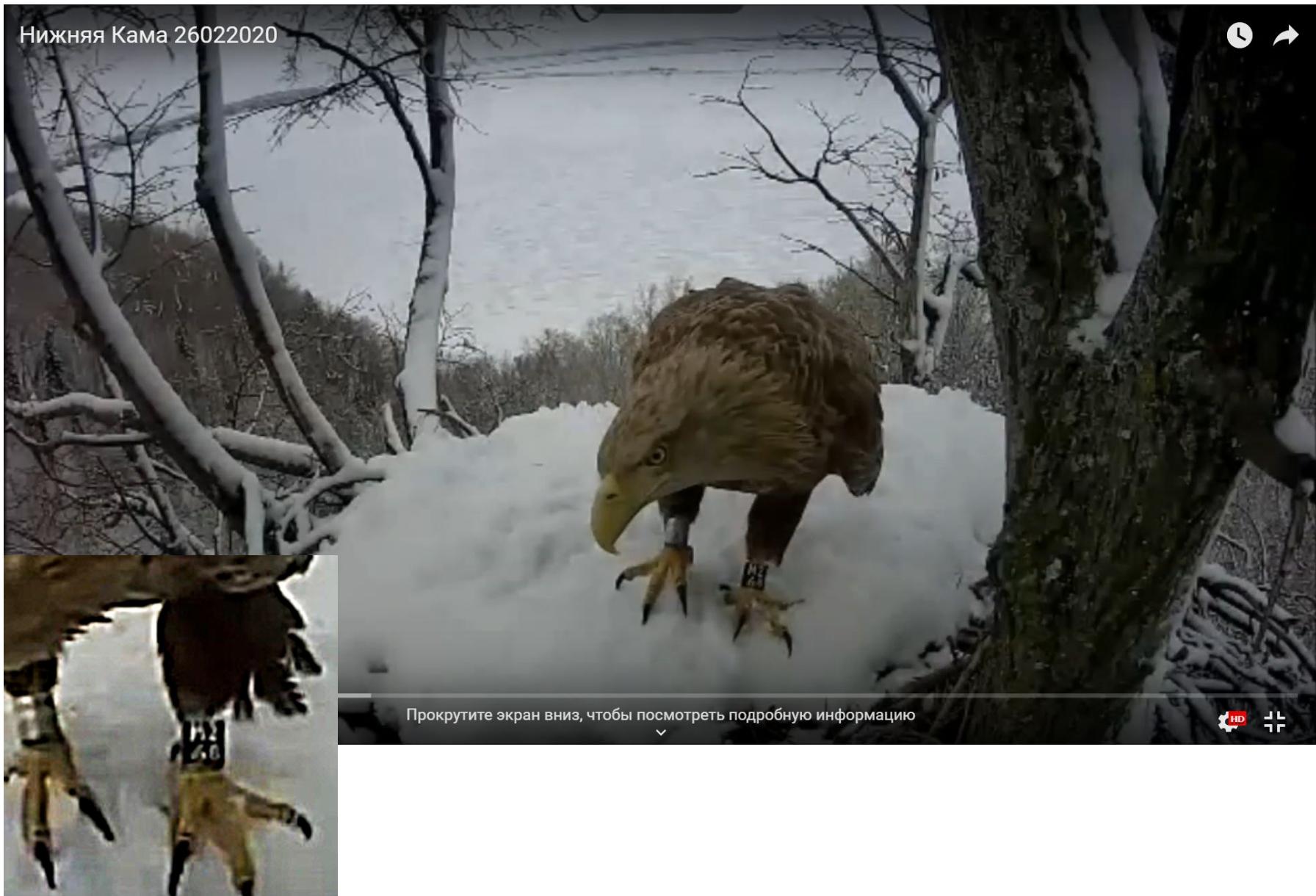








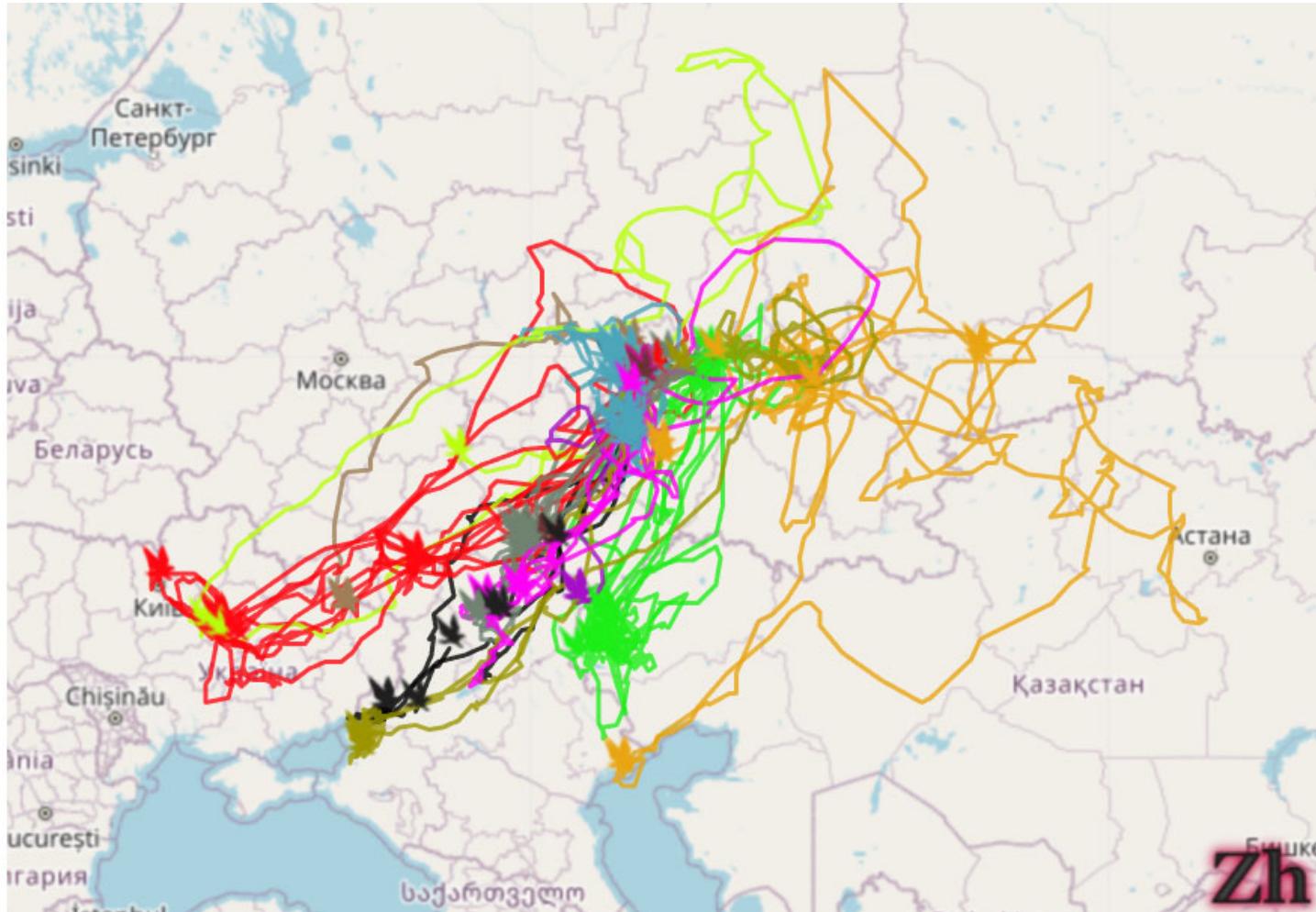
Native birds in the natal area



In the Volga-Kama Reserve and Nizhnyaya Kama National Park GPS/GSM - trackers marked 14 nestlings before departure from nests (5 nestlings in 2018, 4 in 2019, 4 in 2021, 1 in 2022)

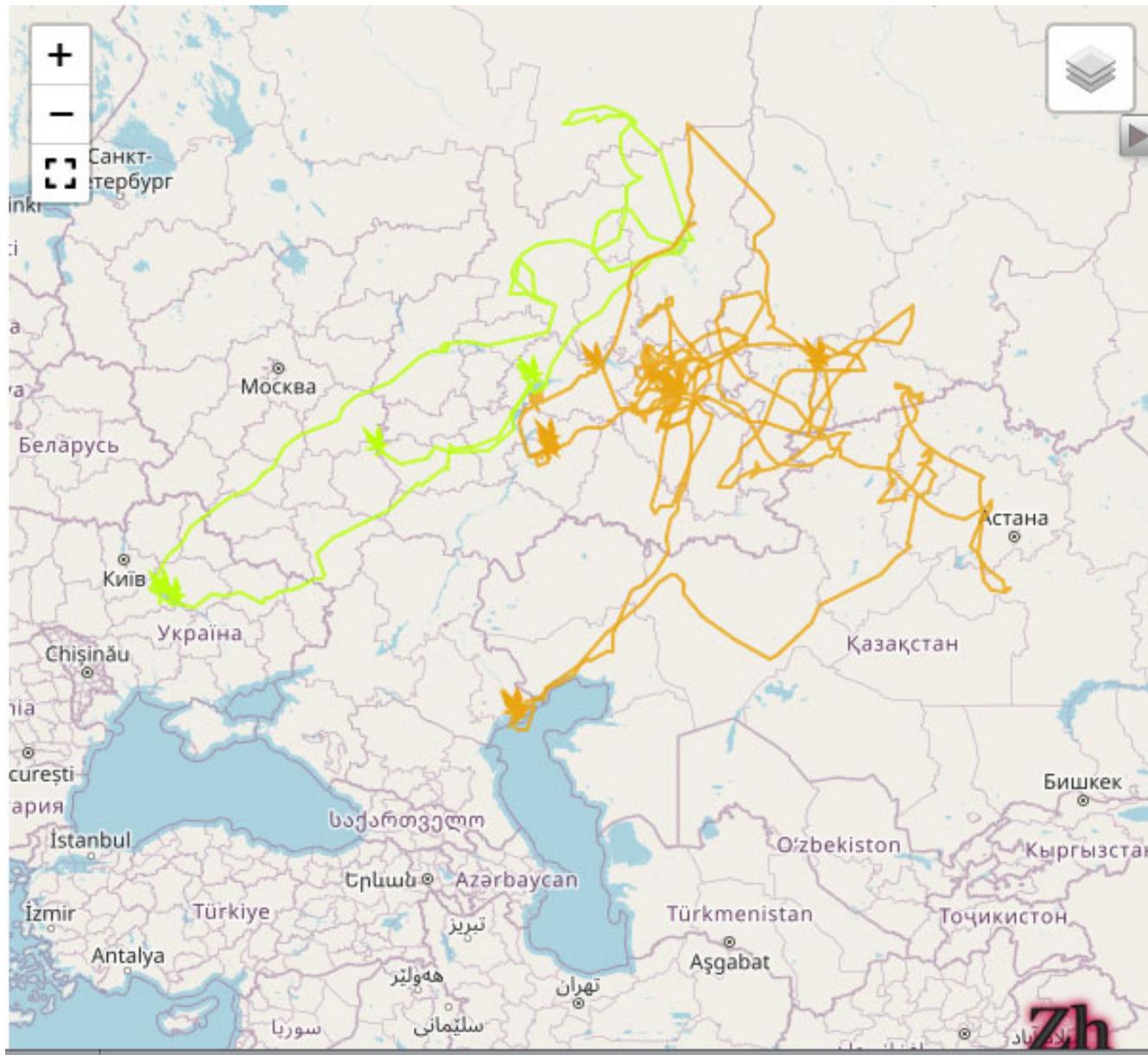


Tracks of White-tailed Sea Eagles tagged in Tatarstan

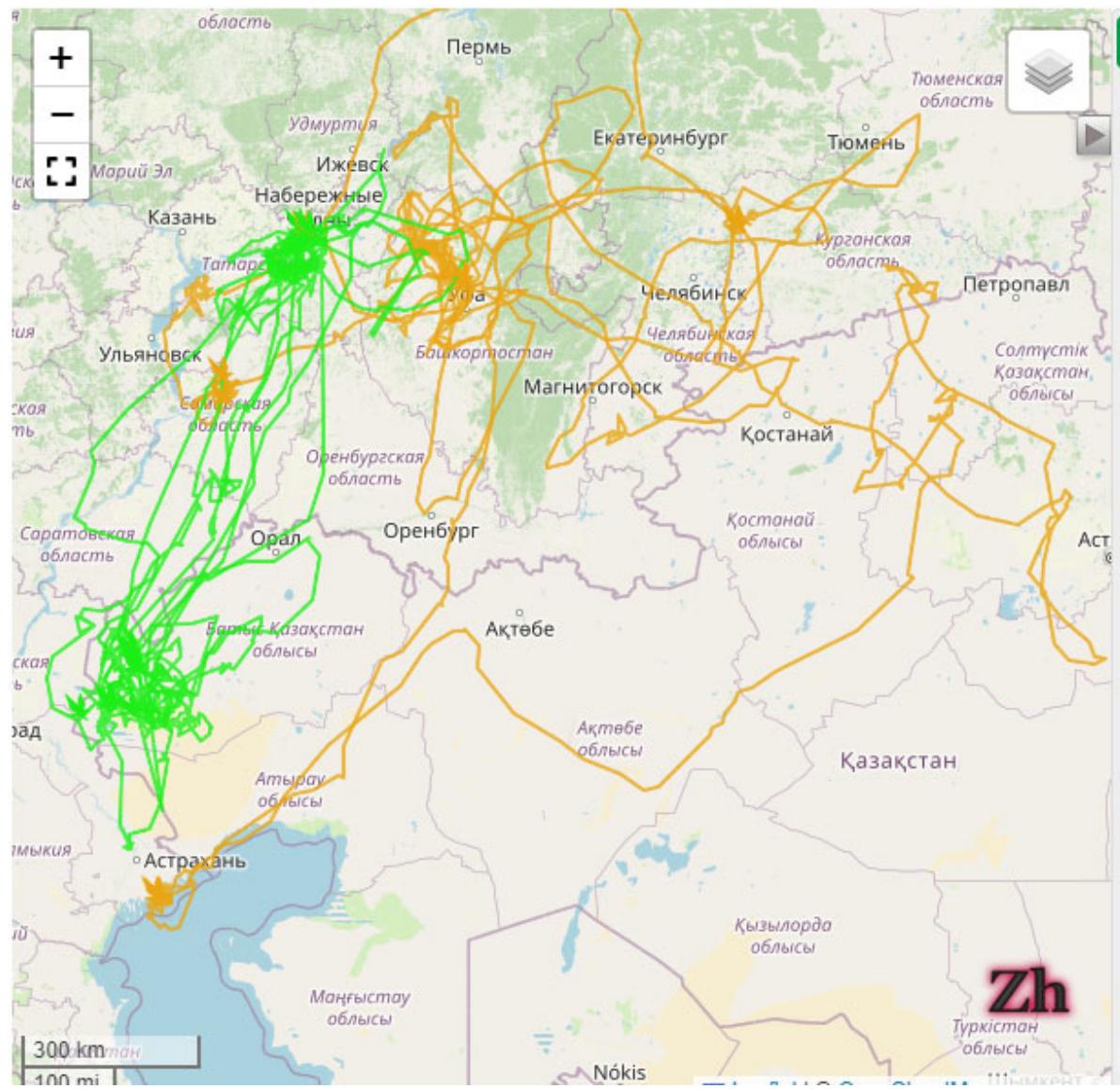


Movements to wintering grounds of 5 birds were over 1000 km from nests (max - 1360 km). The closest wintering grounds were 285 and 508 km for 2 birds.

Maximum territorial relationships were demonstrated by 2 birds with distances between extreme points of wintering and further migrations of 1860 and 1890 km



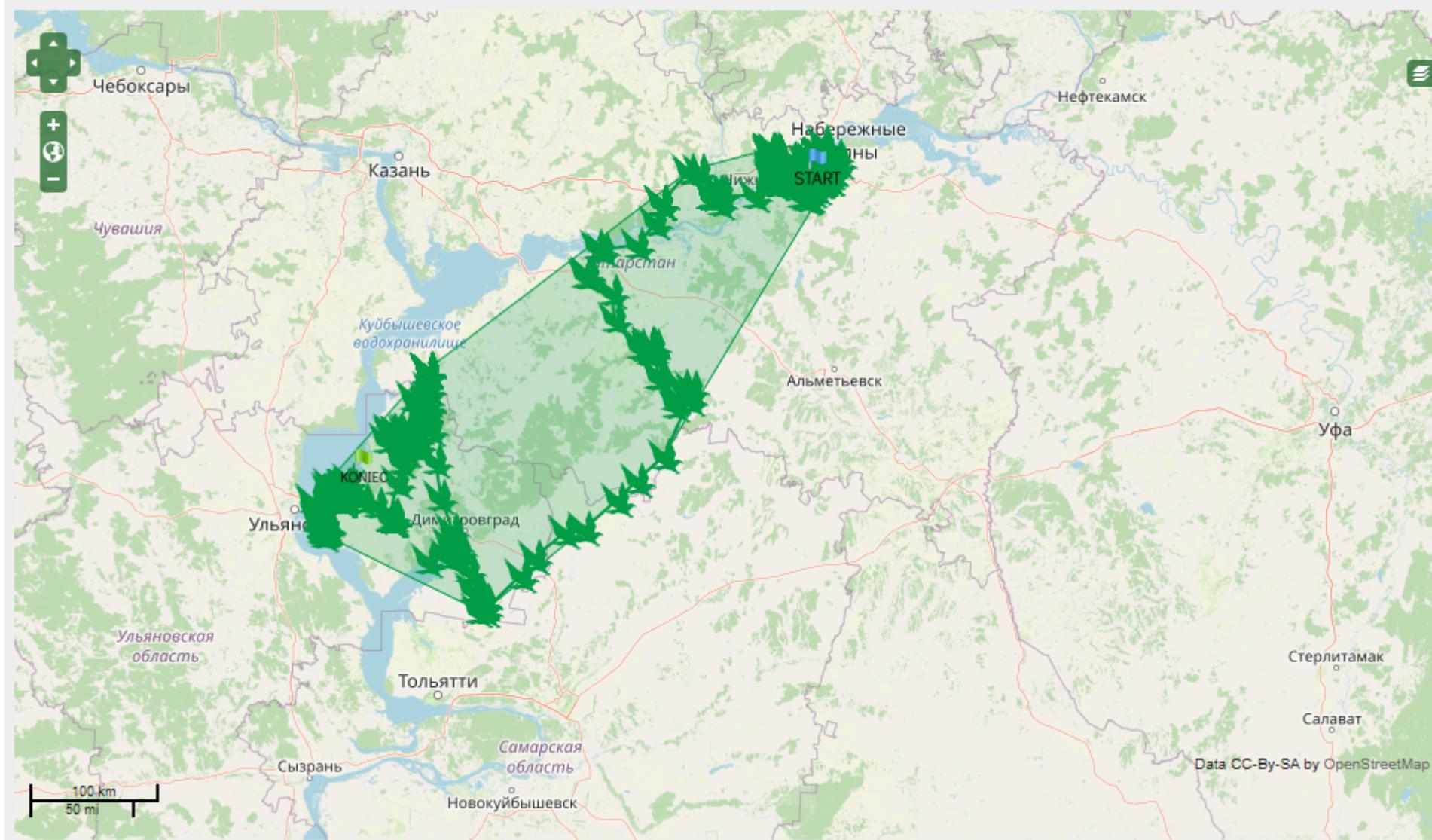
Sibs from one nest showed a connection with the territory of Kazakhstan

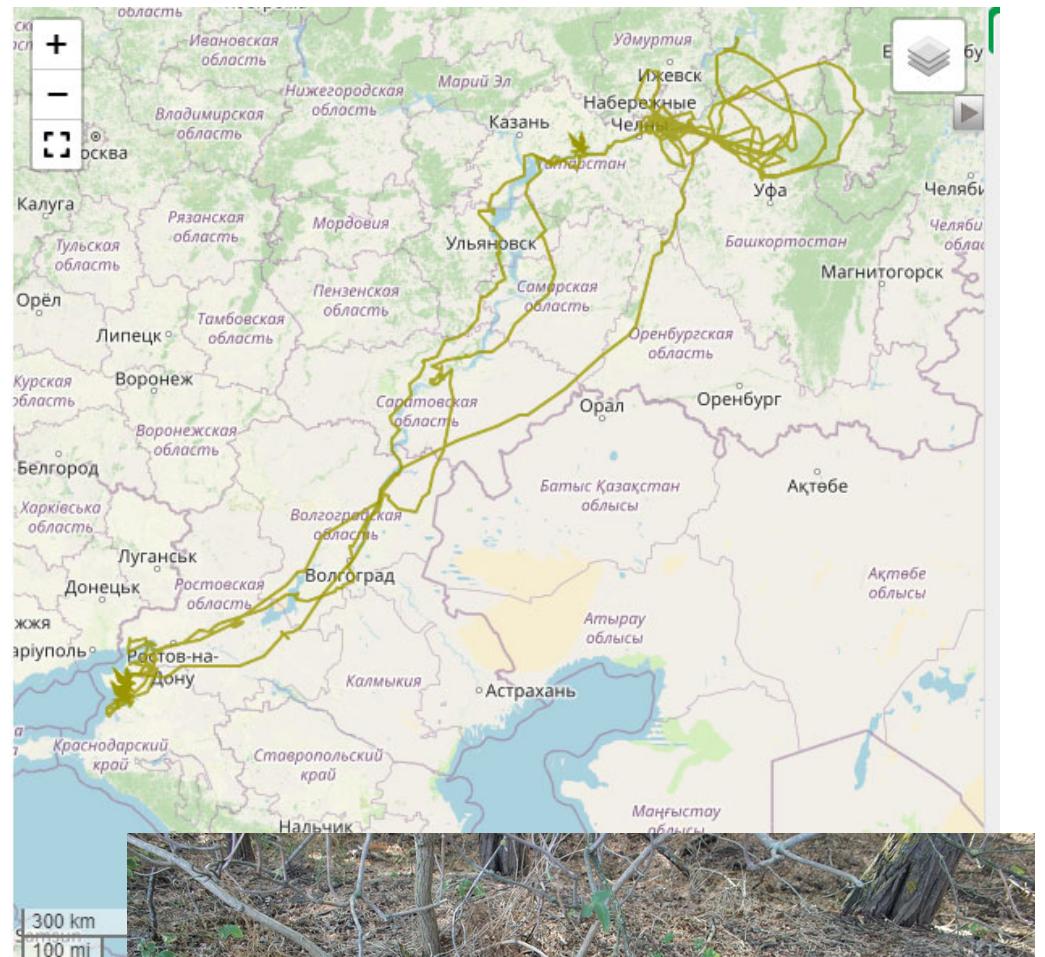


The shortest movement in the first migration to the wintering site was 285 km

Карта - Урман (249_2)

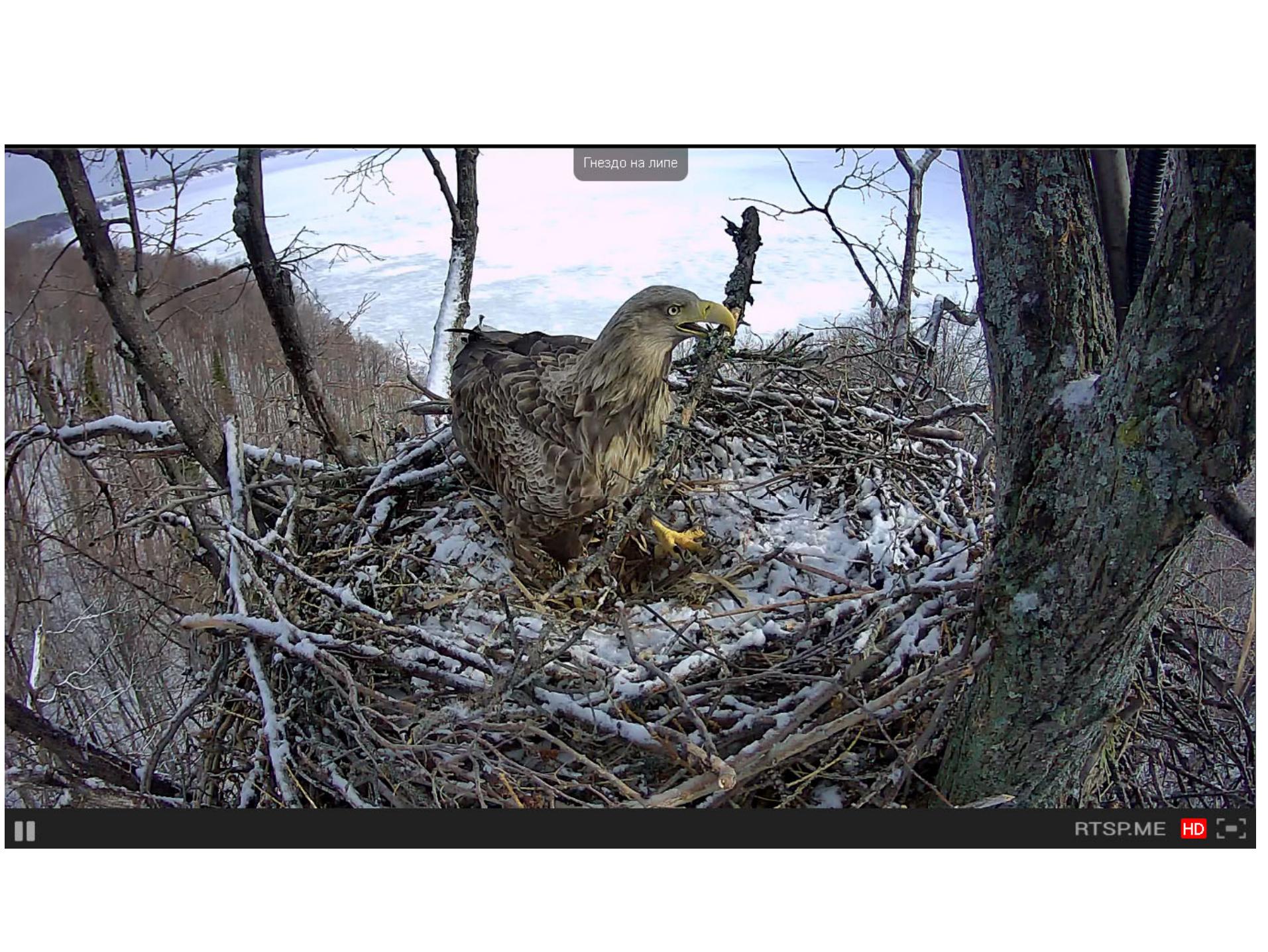
НАЙДЕННЫХ
КООРДИНАТОВ: 1814





Webcam in the nest of the White-tailed Sea Eagle in the Nizhnyaya Kama National Park



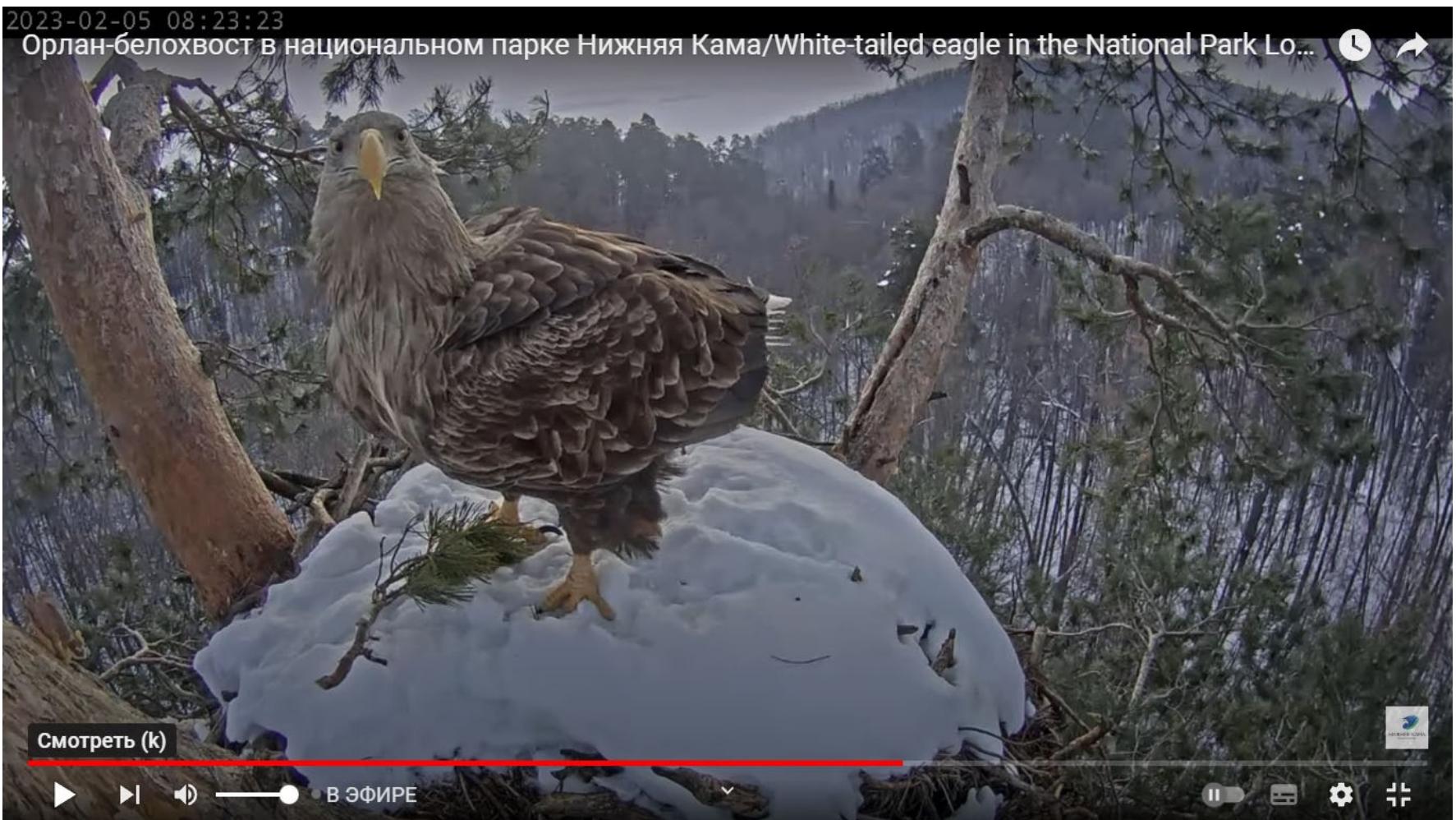


Гнездо на липе



2023-02-05 08:23:23

Орлан-белохвост в национальном парке Нижняя Кама/White-tailed eagle in the National Park Lo...



Смотреть (k)



▶ ▶ 🔍 В ЭФИРЕ



2023-03-02 06:31:10

Орлан-белохвост в национальном парке Нижняя Кама/White-tailed eagle in Lower Kama Nationa...

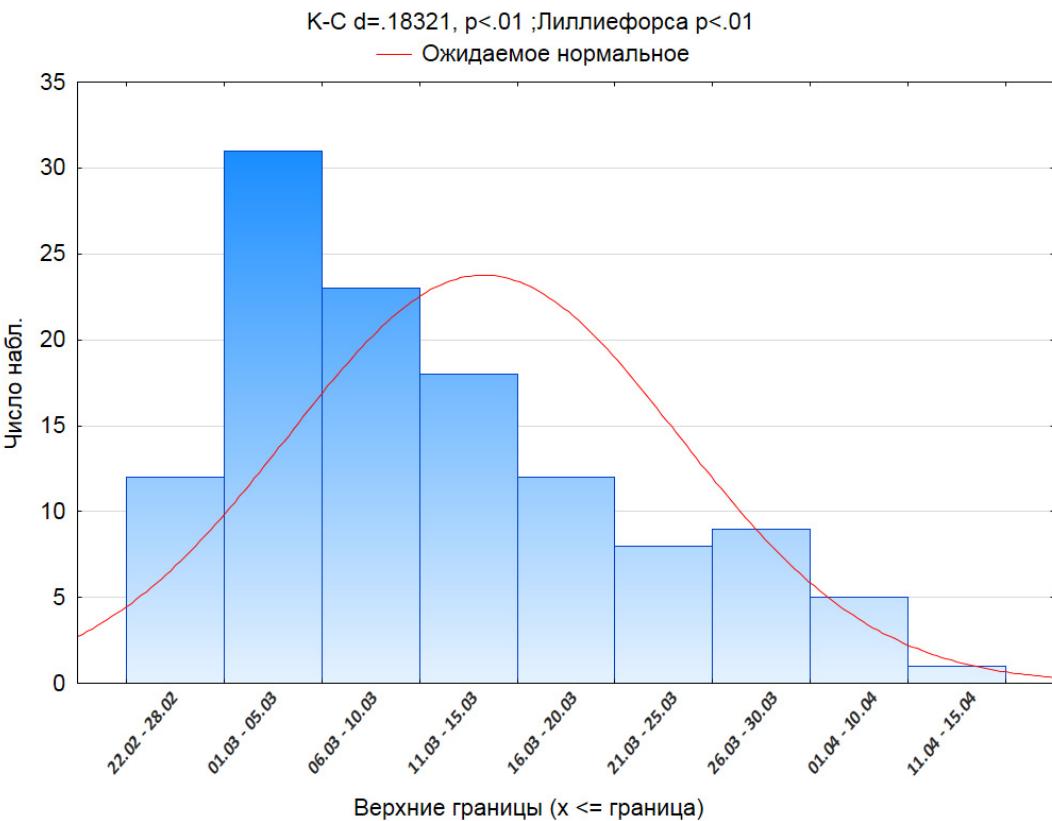


Смотреть (k)

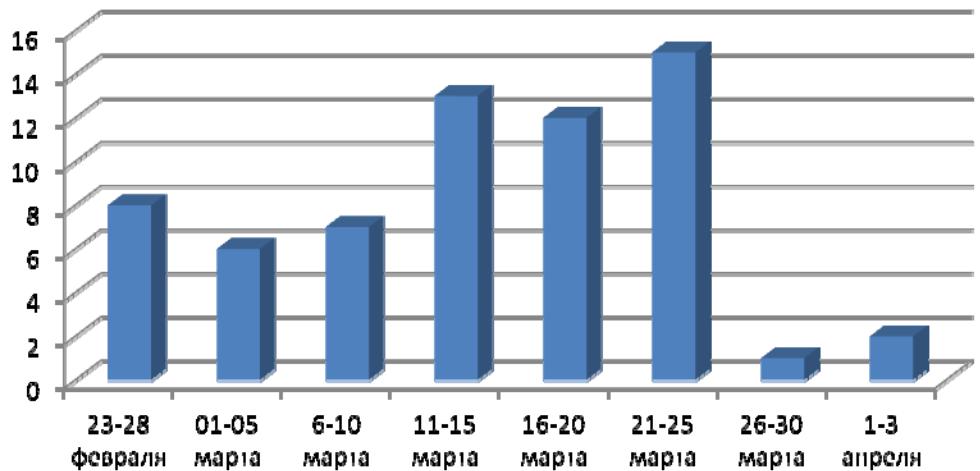


Study of the timing of reproduction

Egg laying period in 2011- 2016
(n=119)



Egg laying period in 2018- 2023
(n=65)



Egg laying on the night
of March 24-25, 2023



The nestling will hatch
on the night of April
28-29, 2023

Incubation period 35
days





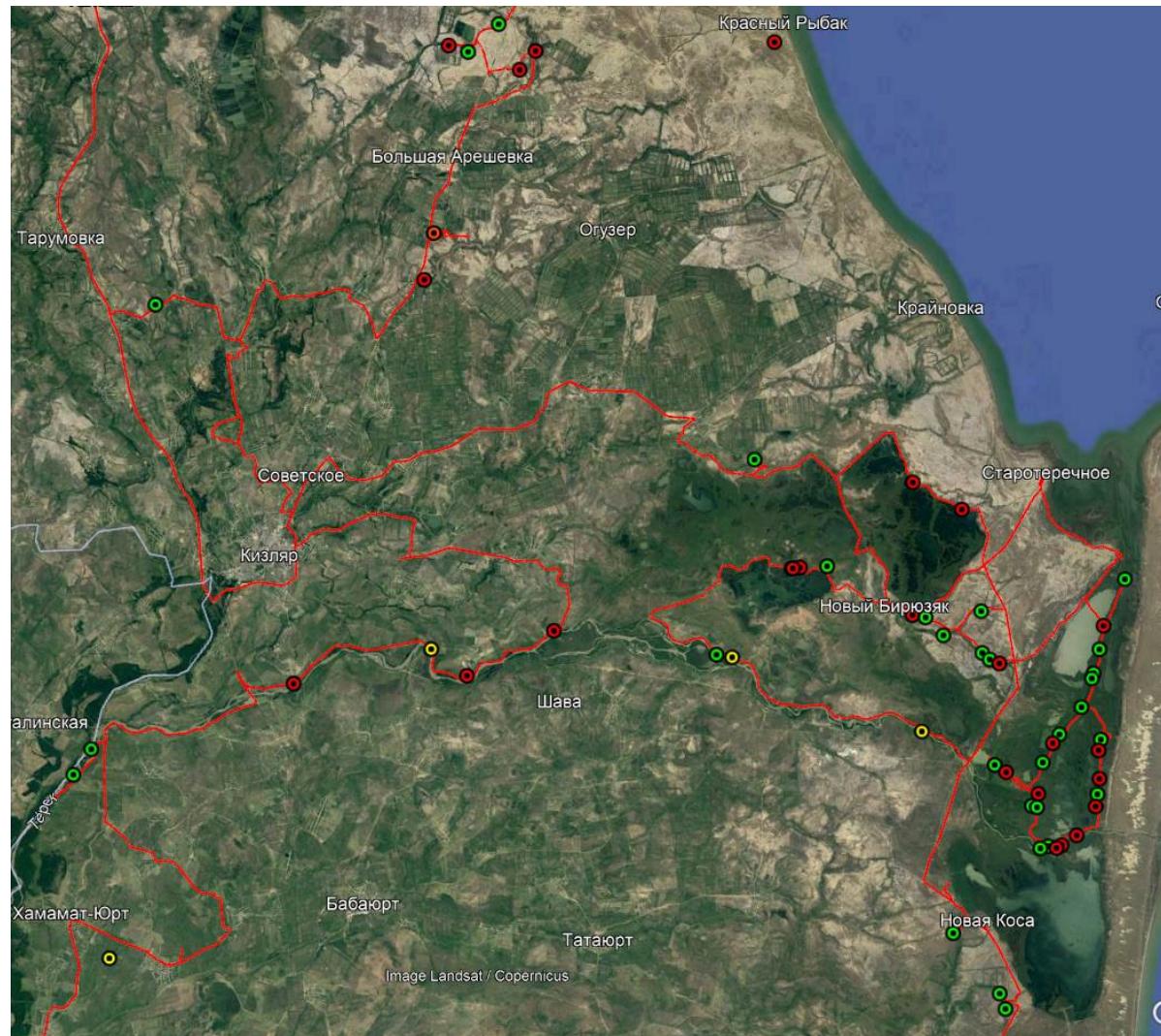
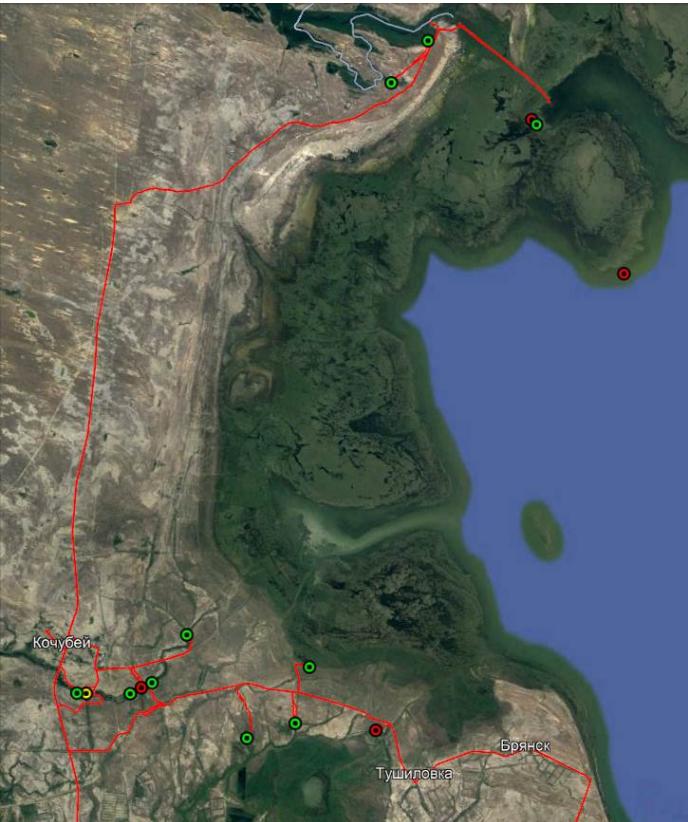


In the Republic of Dagestan, additional studies were conducted in 2022 and 2023

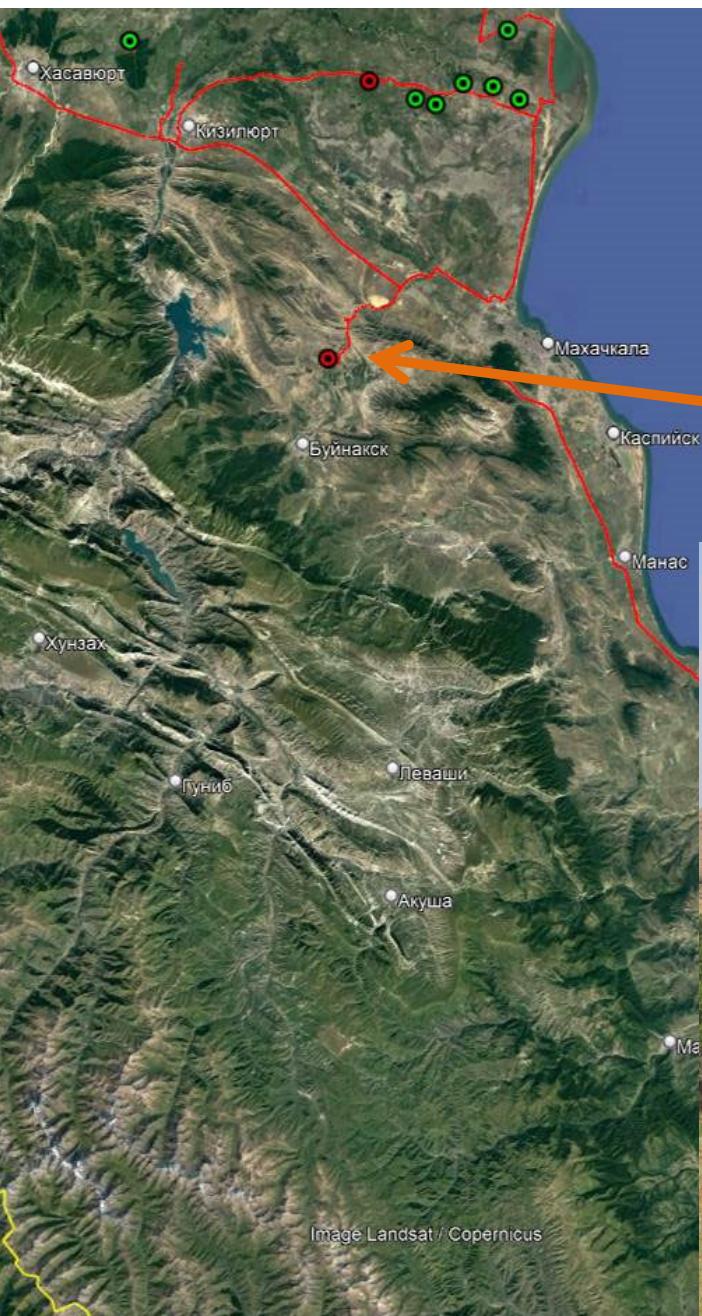


- Inventory of nests was carried out

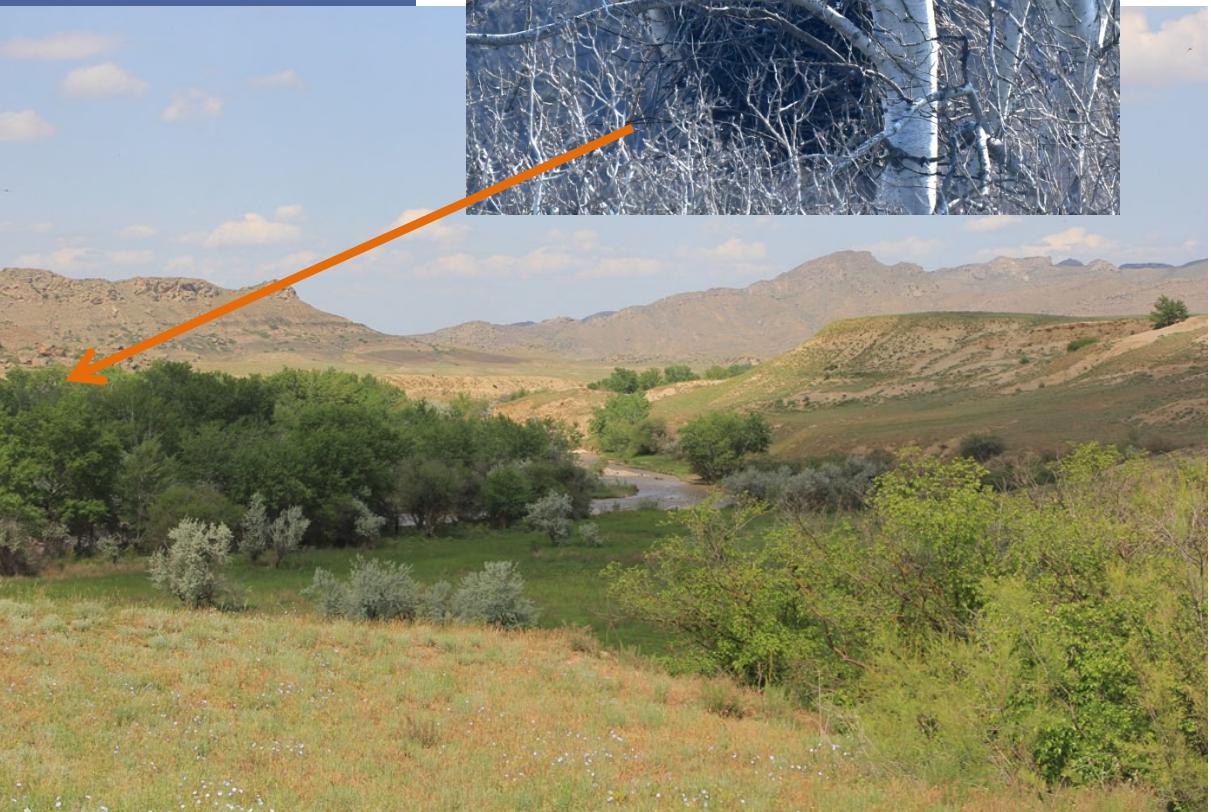
The main breeding centers in Dagestan are concentrated in the Tersko-Sulak lowlands and the coasts of the Kizlyar and Agrakhan bays



Based on the results of the 2022-2023 inventory, a database of nesting sites of the species was formed, which contains information on 84 nesting territories, of which nests were identified in 79 of them



Outside the plain zone of the republic only one nesting site of the species is known in the floodplain of the Shura-Ozen river in Buynaksky district



**During monitoring in March
2023, 48 of 79 nests
inspected were found to be
inhabited. Numbers were
estimated to be at least 50
nesting pairs**

- Actual numbers may be higher due to pairs whose breeding did not take place



Photo. Nest on a poplar tree in
the Terek delta, March 2023.

Results of monitoring of 33 nests in the coastal areas of the Kizlyar and Agrakhan Bays in 2022

Number of occupied nests in February (n=23)



Number of chick nests in May (n=13)





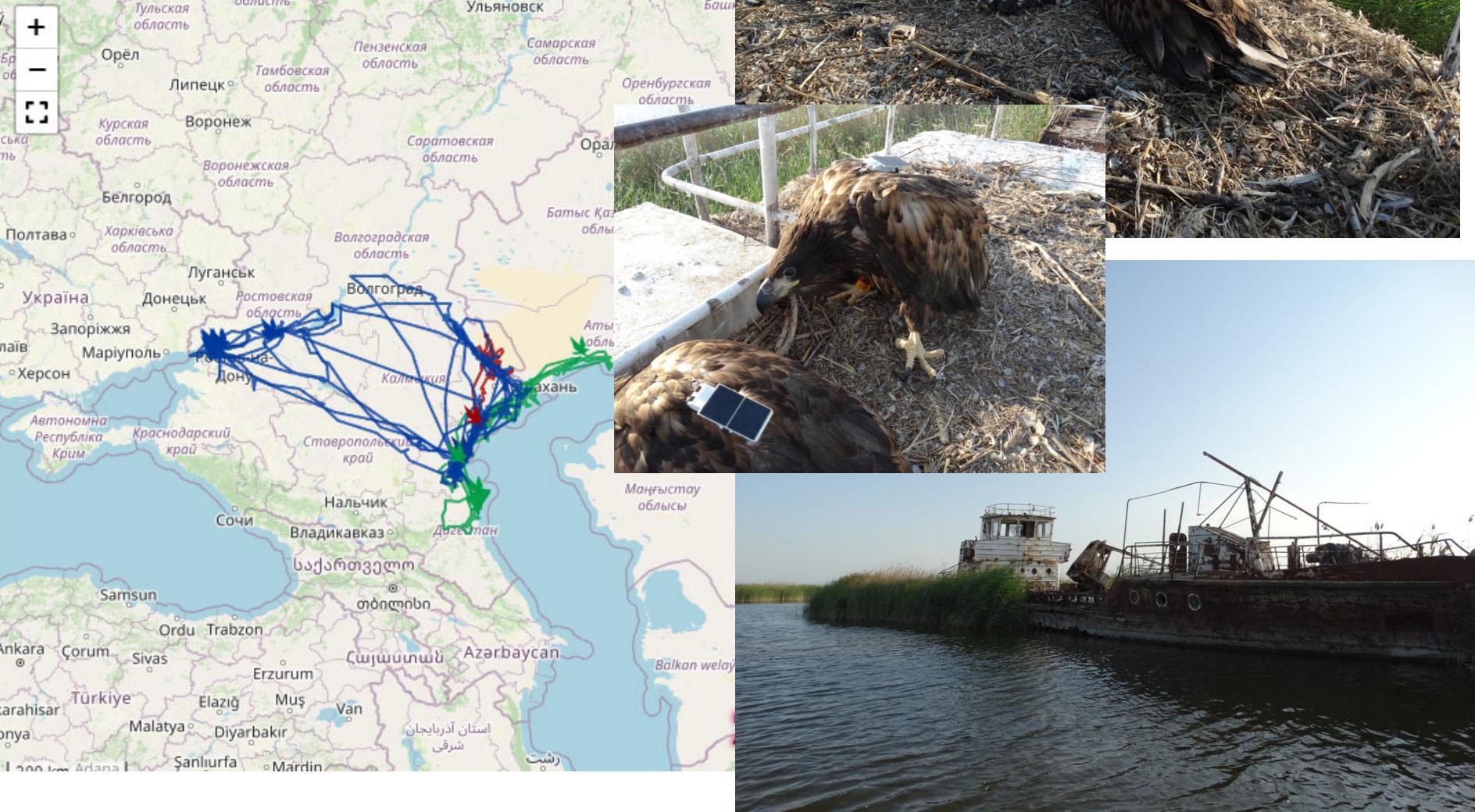


**Most eagles begin breeding in February with the period of laying the first eggs in different pairs from February 11 to February 23.
However, some pairs lay eggs as early as late January**

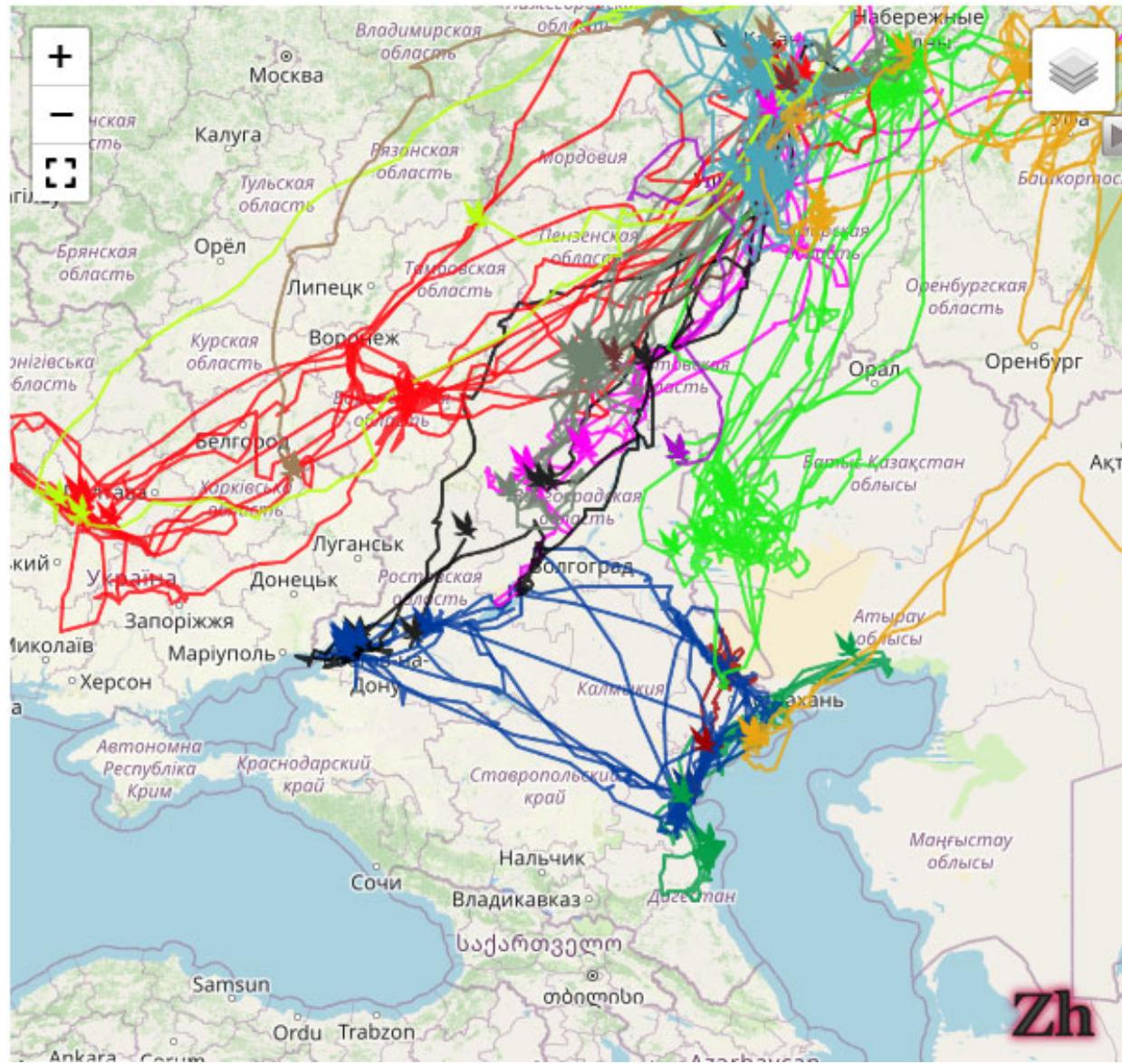


A nest with a nestling at least 1 week old, March 3, 2023.
Egg-laying probably took place in the third decade of January

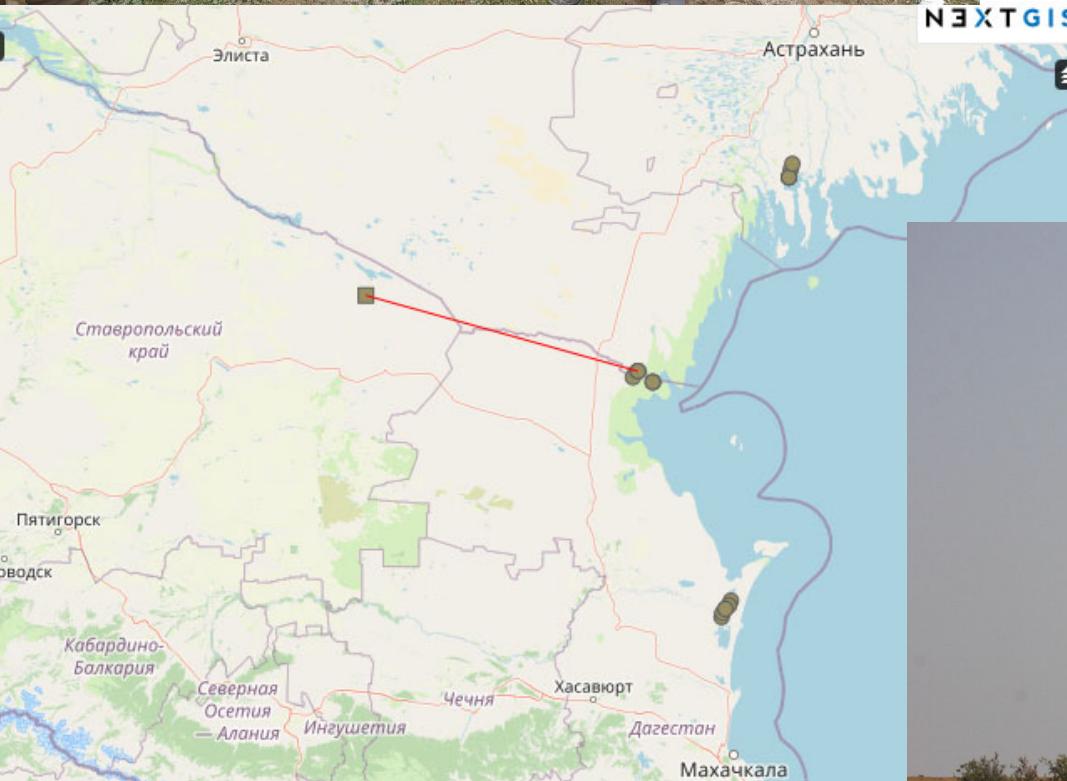
Results of transmitter tagging of three sibs, Dagestan, May 2018



Linking wintering sites of juvenile White-tailed Sea Eagles from Tatarstan and Dagestan



A 3.5 year old bird died on a 10 kV power line at a distance of 146 km from the nest



The base of the artificial nests is a steel welded construction for holding branches



Artificial nests in a treeless area near the Caspian Sea coast are regularly inhabited by White-tailed Sea Eagles

Additional installation of artificial
nests in non-forested areas along
the Caspian coast in 2023



White-tailed Eagle is the most numerous wintering raptor in the plain zone of Dagestan



- From December 8 to 17, 2022 in Dagestan, without the coasts of the Kizlyar and Agrakhan gulfs, 288 individuals were counted, and from 14 to 29 January 2023 a total of 729 eagles were counted in the republic

Acknowledgements

Благодарности

- Исследовательские проекты в Татарстане стали возможными благодаря поддержке благотворительного фонда «Красивые дети в красивом мире», благотворительного фонда «Татнефть», ООО «Биосфера и технология», ООО «Городская служба вывоза мусора» г. Подольск, Азата Шигаева, Юрия Лебедева, г-жи Анны, и поддержке зрителей веб-камеры видеонаблюдения «Гнездо орлана-белохвоста в национальном парке «Нижняя Кама»
- Исследовательские проекты в Дагестане стали возможными при поддержке природоохранного центра «Кавказ» и заповедника «Дагестанский».

ISSN 1026-5627

Русский орнитологический журнал 2023, Том 32, Экспресс-выпуск 2327: 3306-3313

**Крах популяций орлана-белохвоста *Haliaeetus albicilla* и могильника *Aquila heliaca*
в восточной части Ставропольского края**

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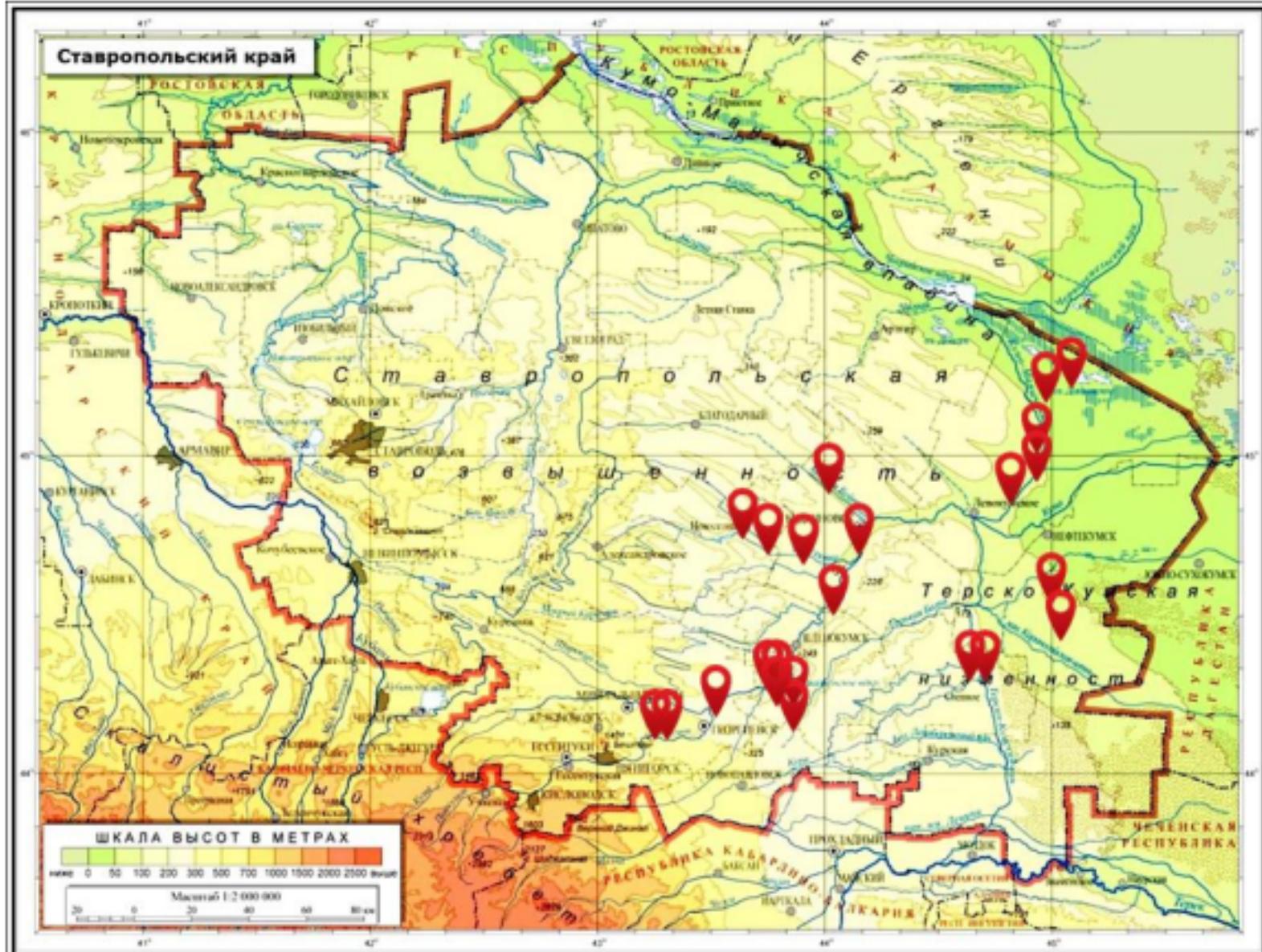


Рис. 1. Местоположение обследованных гнезд орлана-белохвоста *Haliaeetus albicilla* в Ставропольском крае



Рис. 2. Мёртвый орлан-белохвост *Haliaeetus albicilla* на гнезде в пойменном лесу по реке Куме
у села Солдато-Александровское. Советский район, Ставропольский край.
11 марта 2023. Фото А.С.Шевцова



Рис. 3. Мёртвый орлан-белохвост *Haliaeetus albicilla* на гнезде в лесополосе возле села Коммаяк.
Кировский район, Ставропольский край. 25 марта 2023. Фото А.С.Шевцова



Рис. 4. Мёртвый орлан-белохвост *Haliaeetus albicilla* на гнезде в пойменном лесу по реке Куме у села Селивановка. Советский район, Ставропольский край. 11 марта 2023. Фото А.С.Шевцова



Рис. 5. Мёртвый орлан-белохвост *Haliaeetus albicilla* на гнезде в пойменном лесу по реке Куме у Отказненского водохранилища. Советский район, Ставропольский край.

11 марта 2023. Фото А.С.Шевцова



Рис. 6. Гнездовой участок и гнездо с кладкой из 3 яиц орлана-белохвоста *Haliaeetus albicilla* в Махмуд-Мектебском лесничестве. Нефтекумский район, Ставропольский край.
5 марта 2023. Фото А.С.Шевцова