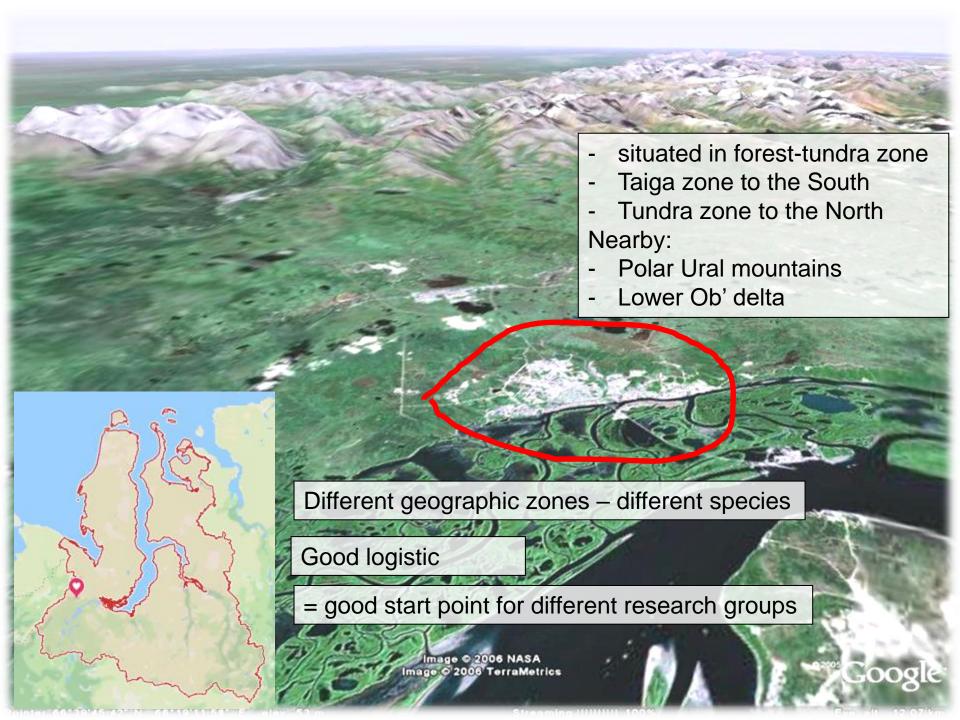


Aleksandr Sokolov

Arctic research station
Institute of plant and animal ecology
Ural Branch
Russian academy of sciences

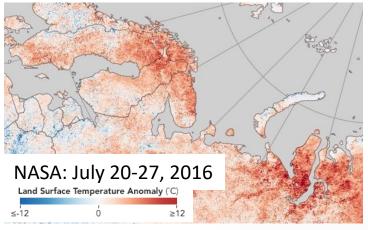




 Most important - to have an idea (scientific plan) behind the Station (infrastructure and personnel)

There are 2 major drivers of change in the Arctic:

- Climate change
- Industrial development
- Bonus in Yamal Herbivory (reindeers) grazing





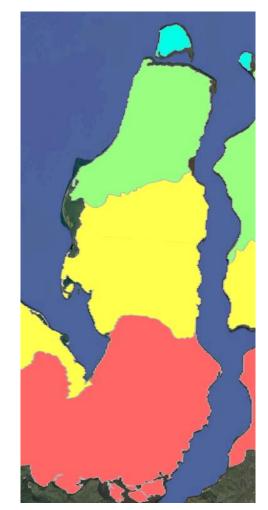


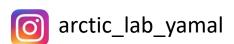


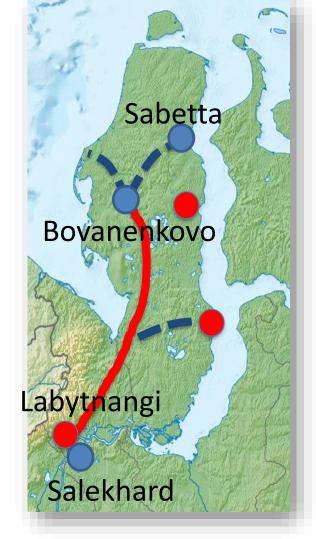
Yamal allow us to measure the influence of all three mentioned drivers of change on arctic ecosystems in <u>different subzones</u> of tundra

Uniqueness of Yamal

- Geography
- Logistics
- Long-term data







Bioclimatic subzones CAVM team, 2003



Erkuta long-term monitoring site

- Annual expeditions started in 1999
- Since 2007 (IPY) wide international collaboration
- Logistic and funding support from Yamal Government (2014-ongoing)
- 4 permanent containers (2 for living and 2 storage
- Solar energy power supply
- Meteostation (HOBO) established in April 2017



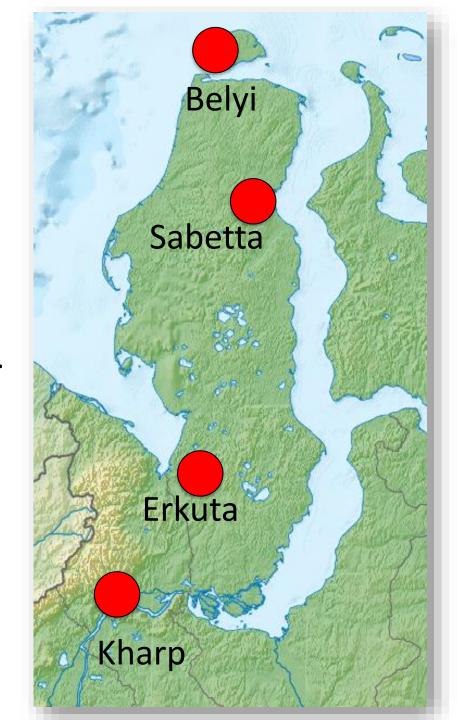




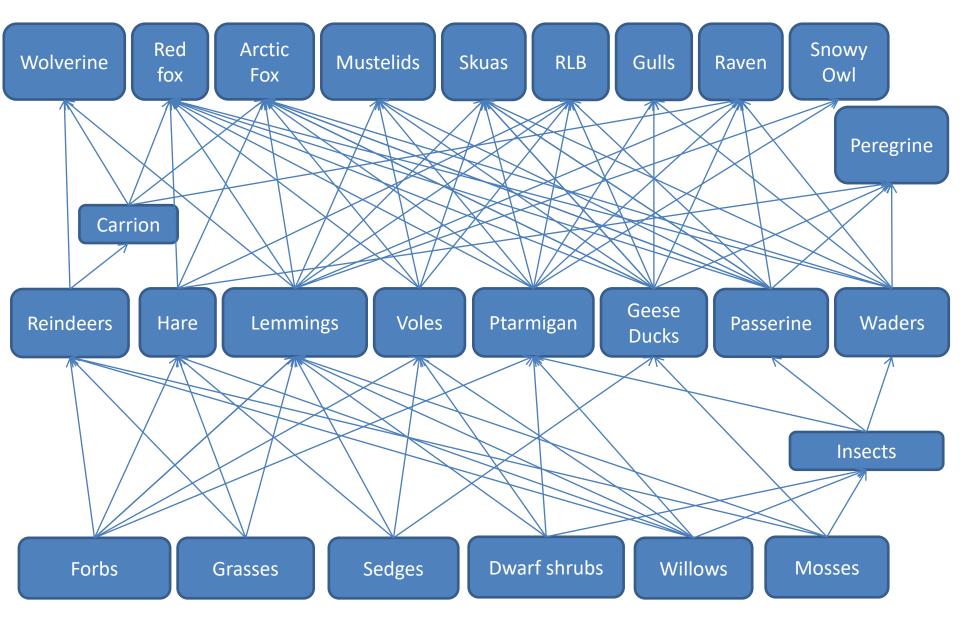
 Dmitry Kobylkin, Governor of Yamal (now Minister of natural resources) support the idea of creation of latitudinal gradient of field research stations on base of long-term monitoring plots – Feb 2014



- Modern latitudinal transect of field stations
- Belyi (73,3N) 2015-...
- Sabetta (71,2N) 1980-th, 2014-...
- Erkuta (68,2N) 1999 ...
- Kharp (66,7N) 1960-th, 2011-...

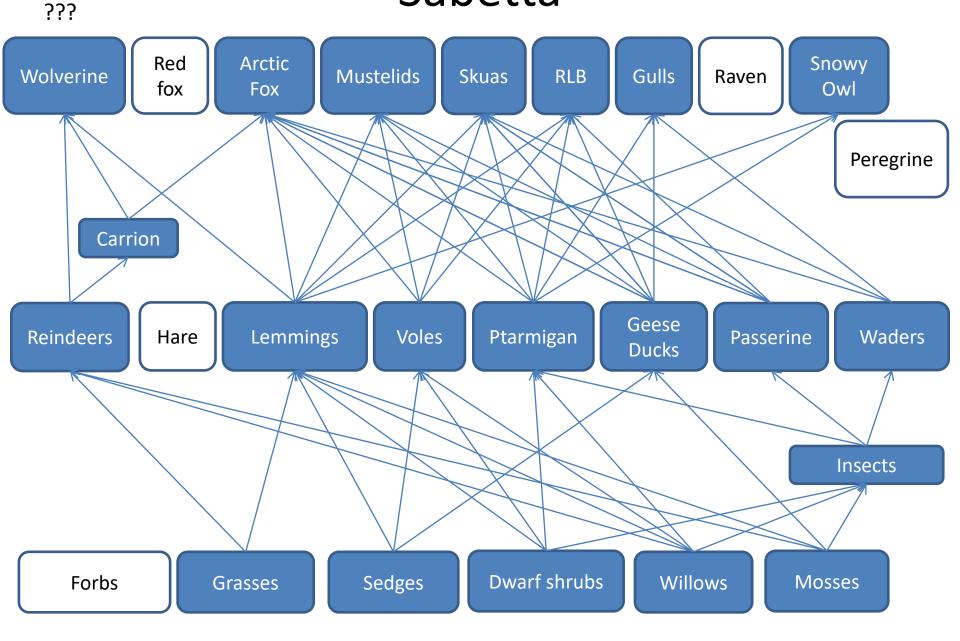


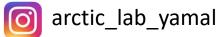
Erkuta



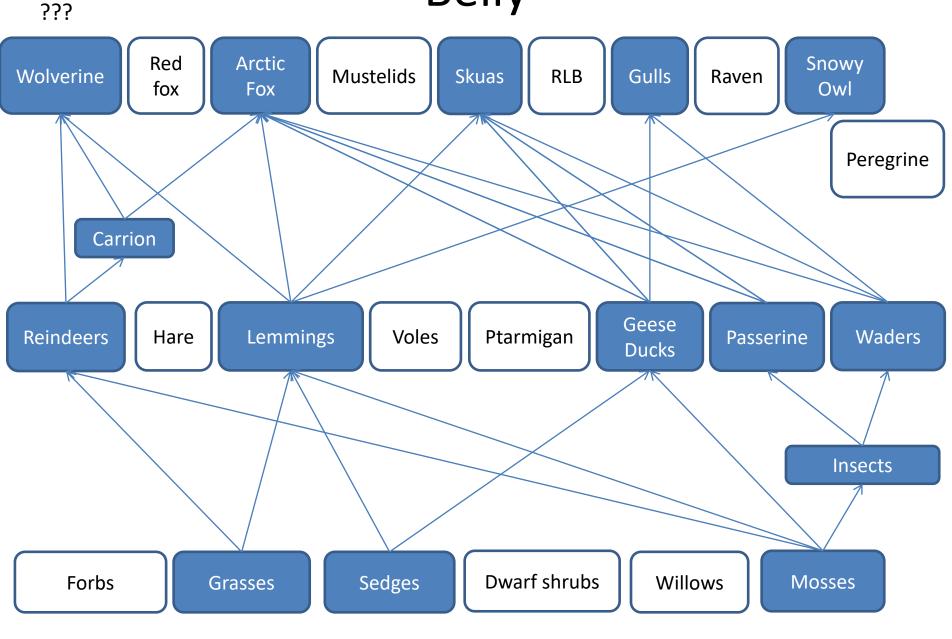
arctic_lab_yamal

Sabetta





Beliy



arctic_lab_yamal

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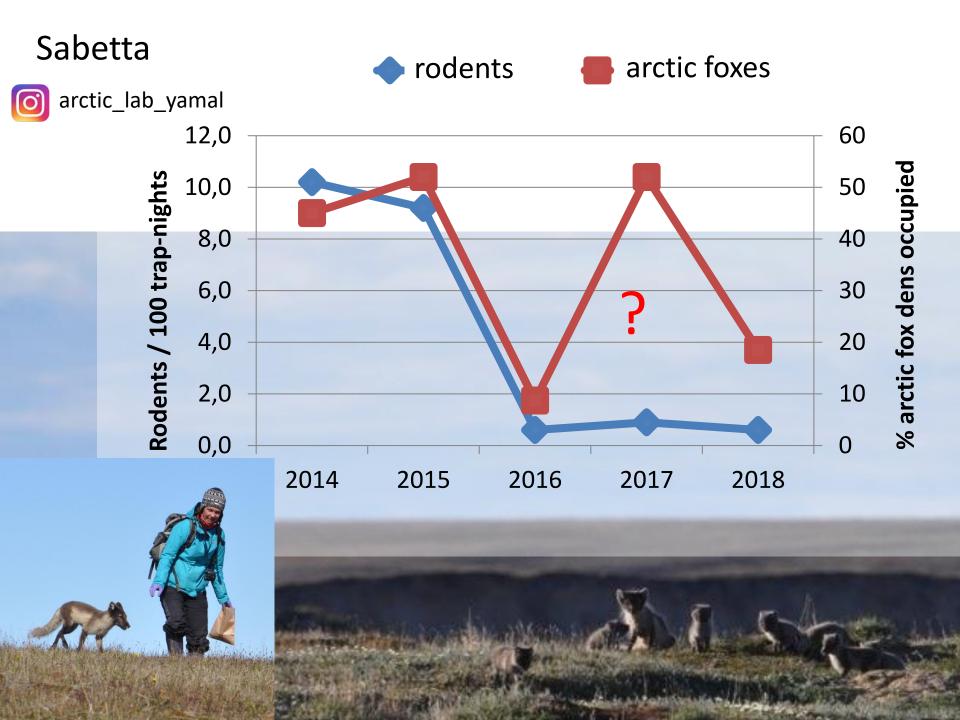
Sabetta. Yamal LNG.

- Unique project for LNG above Polar Circle
- In peak month's up to 25-30 000 people attend





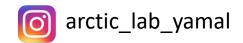






Biggest and one of the rarest falcon species in the world – the Gyrfalcon.

Usually nest on rocks or trees





Changes on species distribution:

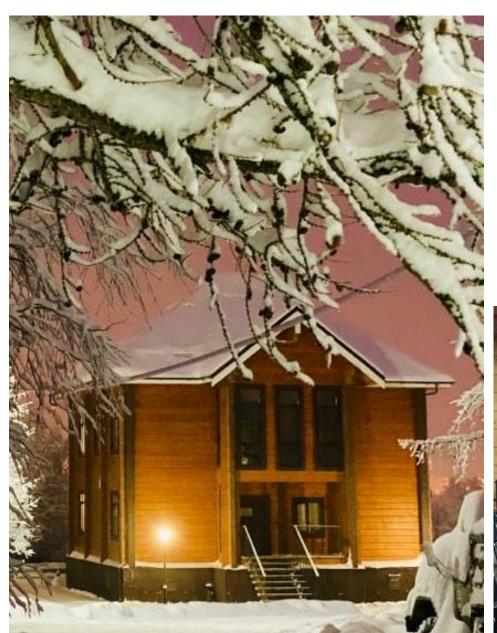


Biggest and one of the rarest falcon species – the gyrfalcon successfully breed. First time on human construction in use! arctic_lab_yamal





Unprecedented support by Yamal Gov.



New 200 m² office building. Material produced in Yamal. New 200 m² garage New equipment (equiv. 285 000 EUR)

Buildings property of RAS Equipment – free use



National federal project "Science"



- 300 new labs in RF
- 1 of it in Labytnangi 10 permanent positions (70% must be below 40 y.o.)
- Multidisciplinary lab
 "Dynamic of arctic
 ecosystems" (biologists,
 anthropologists, permafrost
 researchers)
- Federal low researchers should have double salary from average of the region (Yamal – highest in Russia)



13 papers published in 2019 in:





The Auk
Ornithological Advances

Journal of Animal Ecology



Science

PHILOSOPHICAL TRANSACTIONS
OF THE ROYAL SOCIETY B

BIOLOGICAL SCIENCES



OCR A PHY



in Ecology and Evolution

nature ecology & evolution

What the papers are about:

```
ROUGH-LEGGED PUBLICATION
                    ARCHITECTURE MITOGENOMIC
                    RESEARCHERS INDIGENOUS
                     PHALAROPES RED-NECKED FLEXIBILITY
          DETERMINE ASSOCIATION
      ADDRESS RESPONSE
     ISSUESFACTORS
    FOOD DRIVE TWO GLOBAL STATUS
        REVEALS
       BIAS RODENTS
   MIGRATORY
DISCUSSING
   DETECT
            PERSECUTION META-ANALYSIS DIVERSITY
                        DECISION-MAKERS
                         CONSEQUENCES
                          GEOLOCATORS
```

Outreach and public relations



241 1619 573 Публикации Подписчики Подписки

Arctic research station

Образование

Арктический научно-исследовательский стационар Института экологии растений и животных УрО РАН (Лабытнанги)

YouTube: Arctic lab Yamal

openlab.timepad.ru/event/1235886/



- Instagram account
- Regular TV coverage (town-region-federalinternational)
- Excursions for pupils
- "Open door days"
- Festival "Science 0+"
- "Open lab" event
- Lections open for wide public

Until September 2019 it's believed not more than 20 walruses around whole Yamal, and far not every year. Uniquely fast and effective expedition organized by Yamal Government And "Gazprom Dobycha Nadym" confirm biggest ever hall-out – more than 1000 animals.

A VERY big media attention.

#walrusesyamal

#моржинаямале

