



THE RESULTS OF FIELD SURVEYS AND MAPPING OF MARINE LITTER ON COASTS OF THE RUSSIAN ARCTIC SEAS IN 2020

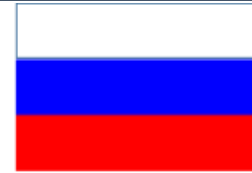
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Murmansk, Russia**

**Man-made litter in the Barents Sea: plastic, lost fishing gear.
March 22, 2021 Murmansk, Russia**



Mapping marine litter in the Norwegian and Russian Arctic Seas -MALINOR-



Akvaplan-niva

Salt Lofoten

Meteorological Institute of Norway

Maritime Robotics

GRID Arendal

UiT The Arctic University of Norway

The Norwegian Institute for Air Research

The University Centre in Svalbard

Murmansk Marine Biological Institute KSC RAS

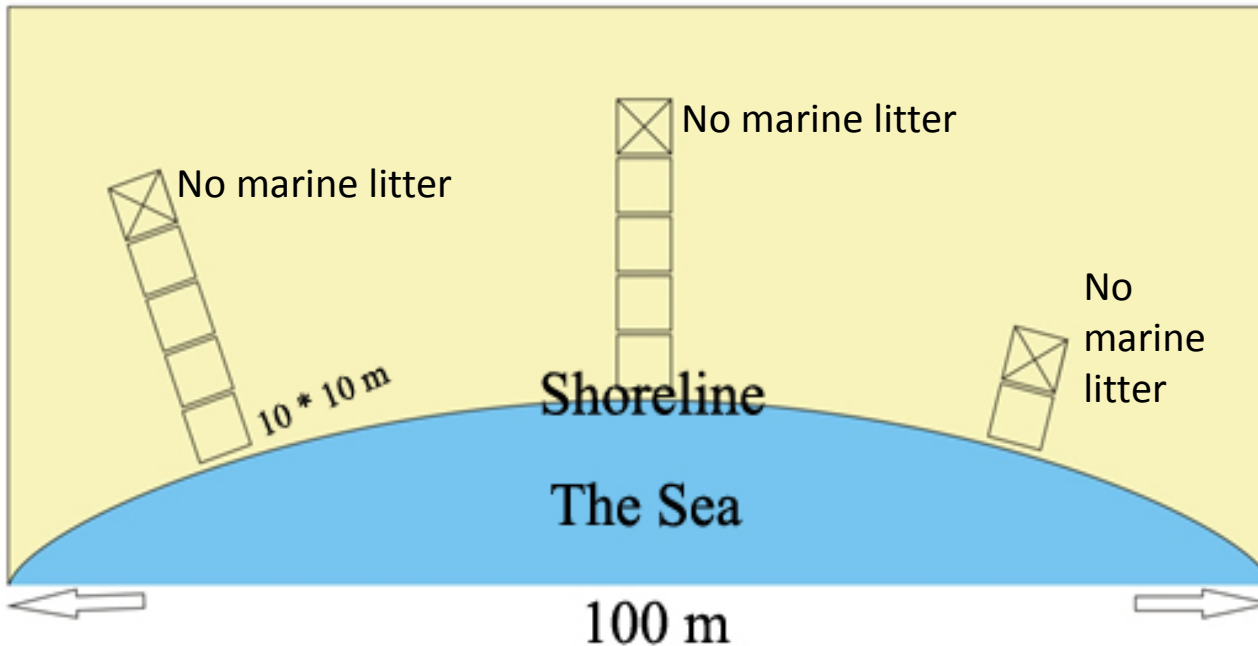
Association of Maritime Heritage: sustain & explore

Zubov State Oceanographical Institute

WWF Barents Sea Office



METHODS



Equipment:

1. Counters
2. Rangefinder
3. A steelyard
4. Protective tape
5. Garbage bags

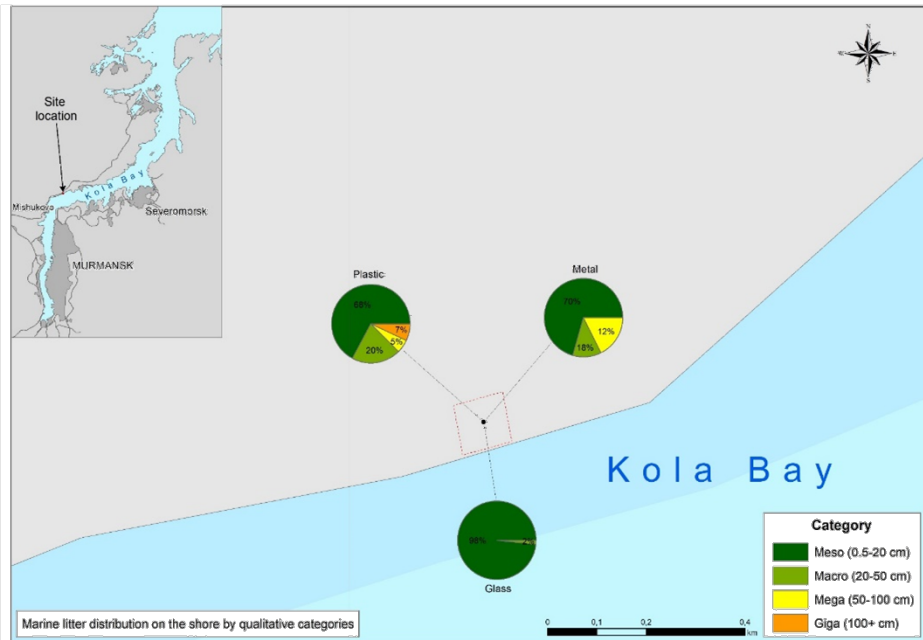
Size categories for the marine litter are:

1. Meso – 0,5-20 cm;
2. Macro – 20-50 cm;
3. Mega – 50-100 cm;
4. Giga – 100+ cm.

Marine litter should be classified as following:
plastic, glass and iron.

All types of marine litter larger than 20 cm should be weighed. Marine litter of each type and size is counted and weighed separately

Monitoring site in the Kola bay (Barents Sea) near Murmansk



Site located in the middle part of the Kola Bay. Near Belokamenka settlement.

Over all results are:
 Metal – 5.26 kg
 Plastic – 36.25 kg
 Glass – 9.98 kg

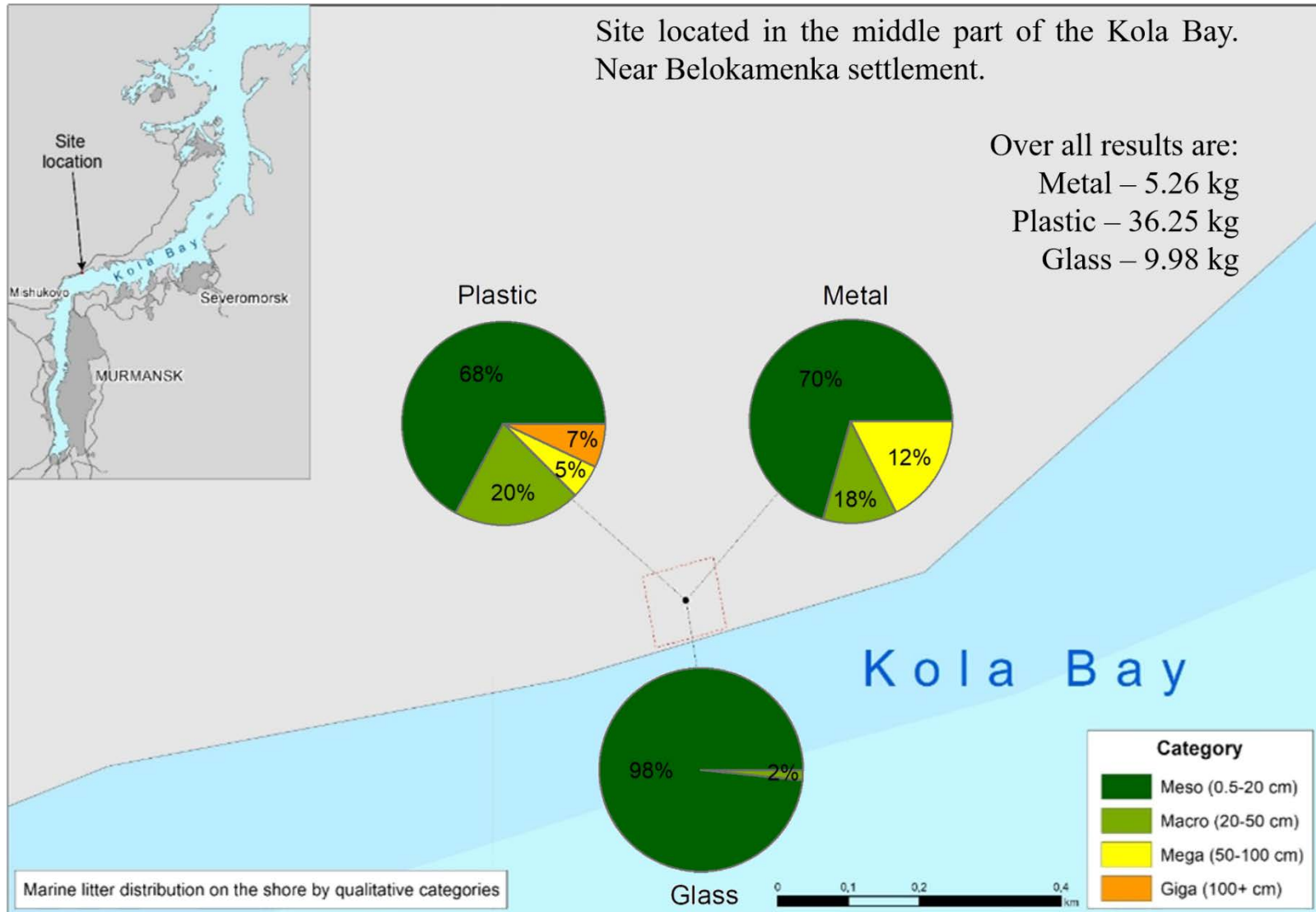


Sampling site

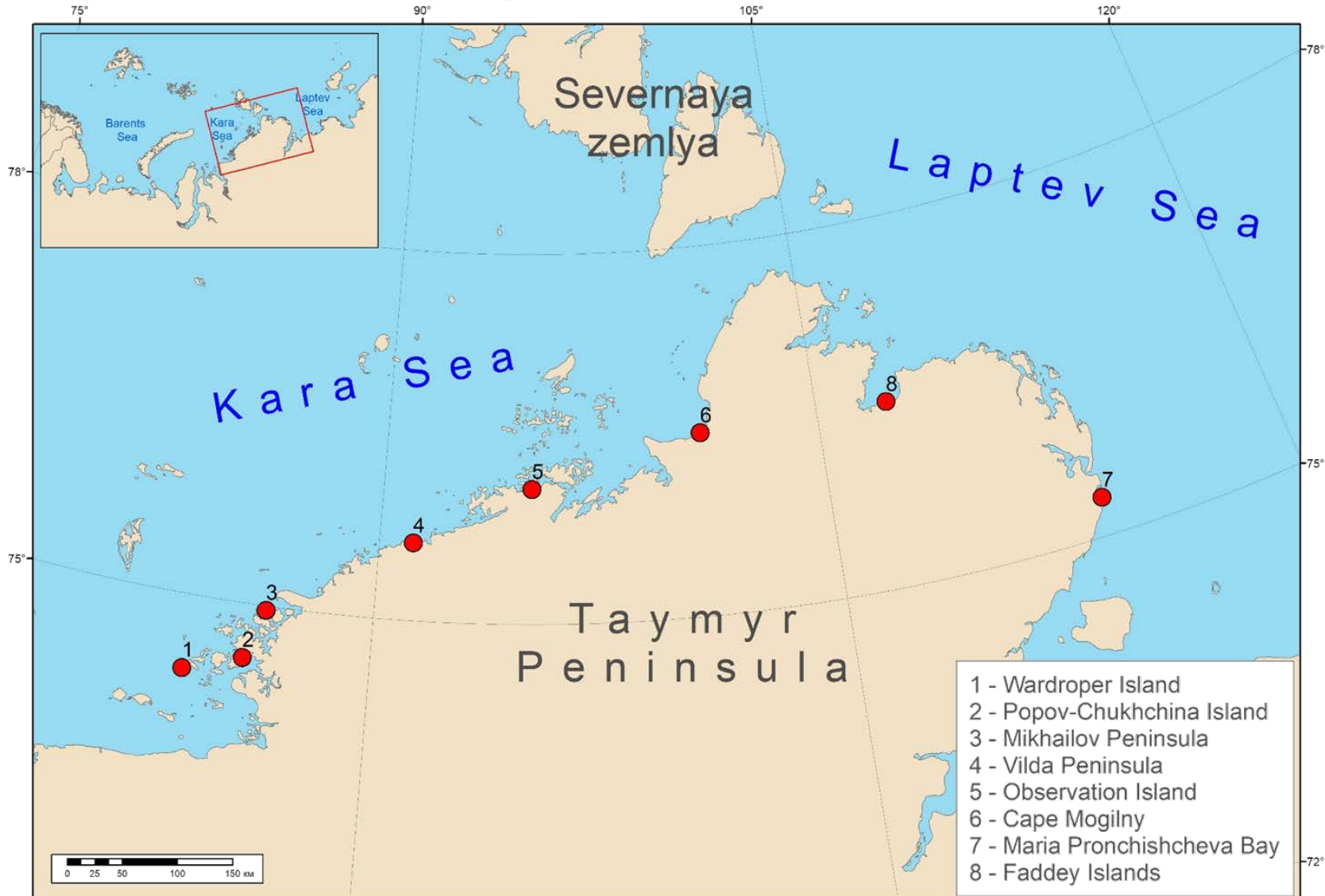


The work in the field

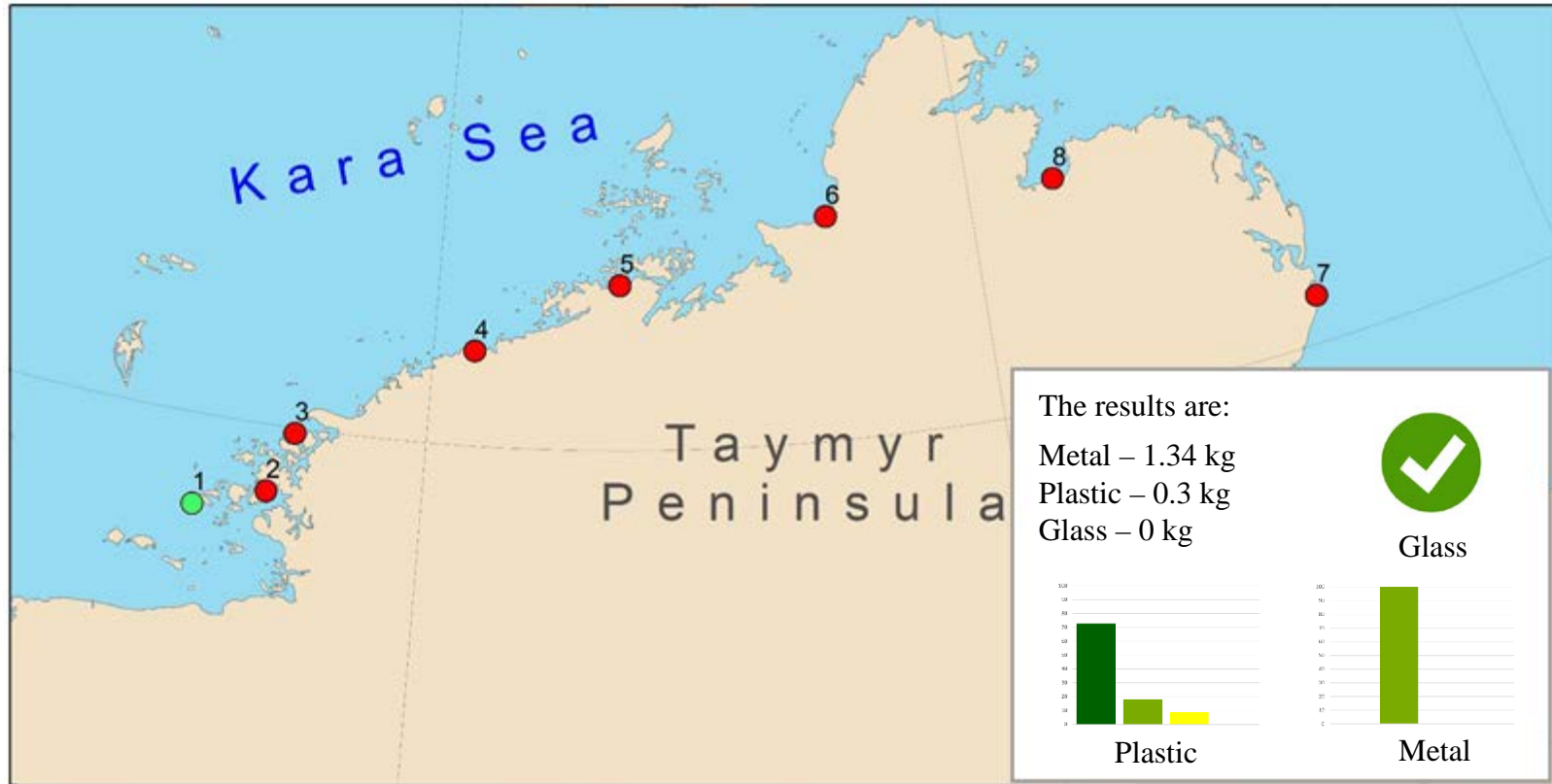
Monitoring site in the Kola bay (Barents Sea) near Murmansk



Research area in the coasts of the Kara and the Laptev Seas – Taymyr Peninsula



Taymyr peninsula



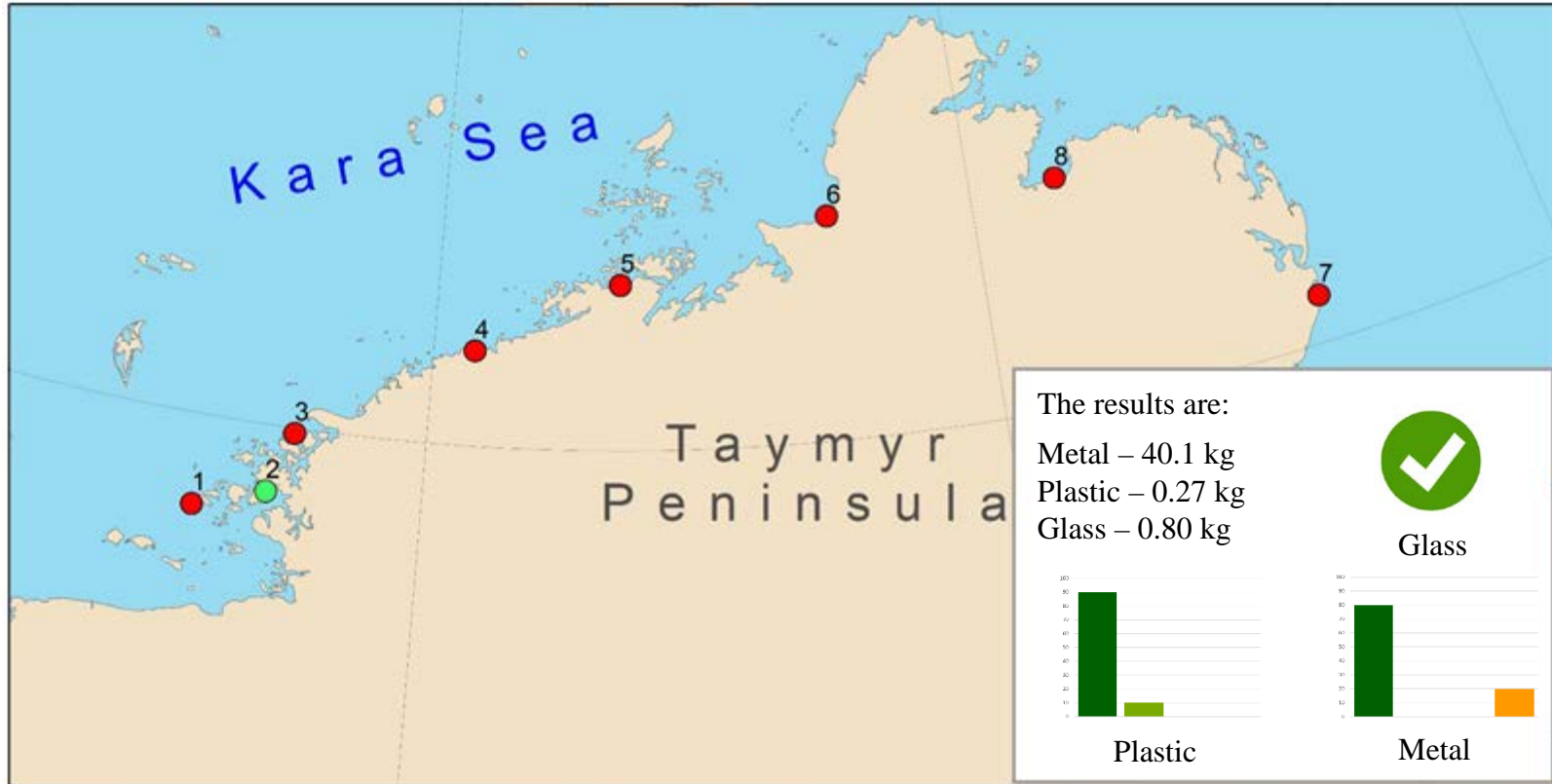
Sampling sites



Marine litter samples



Taymyr peninsula

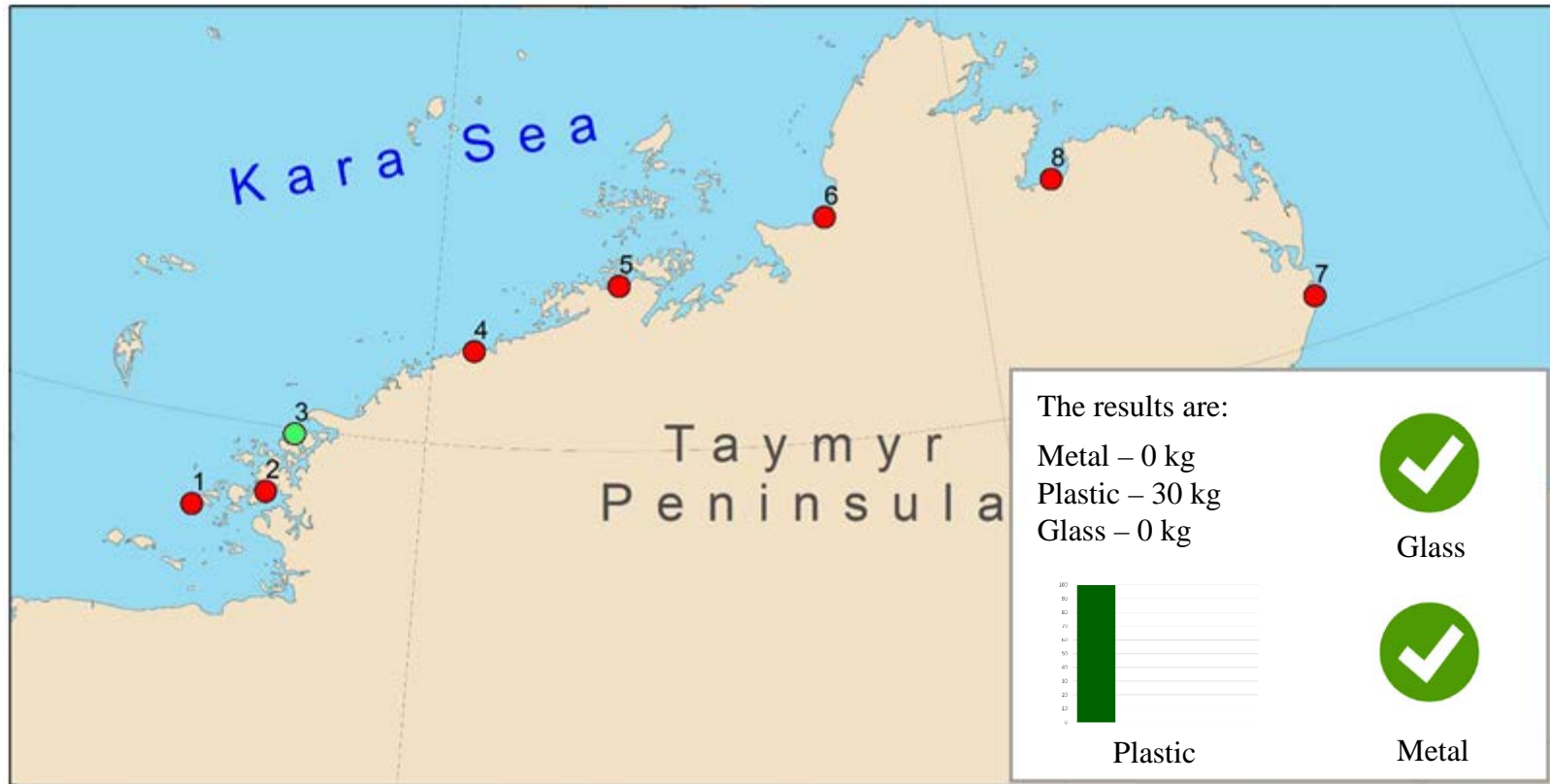


Sampling sites

Marine litter samples



Taymyr peninsula



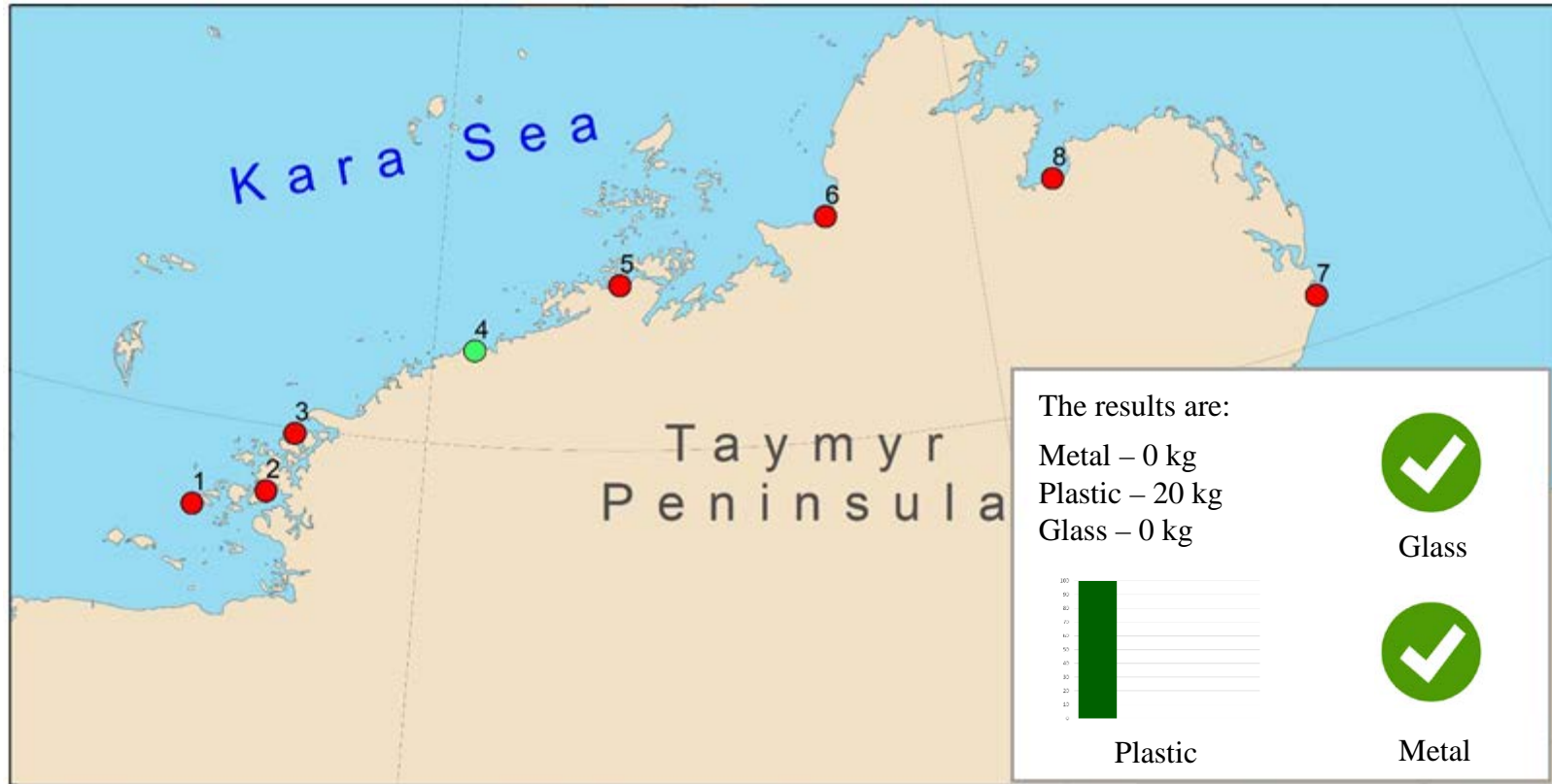
Sampling sites



Marine litter samples



Taymyr peninsula

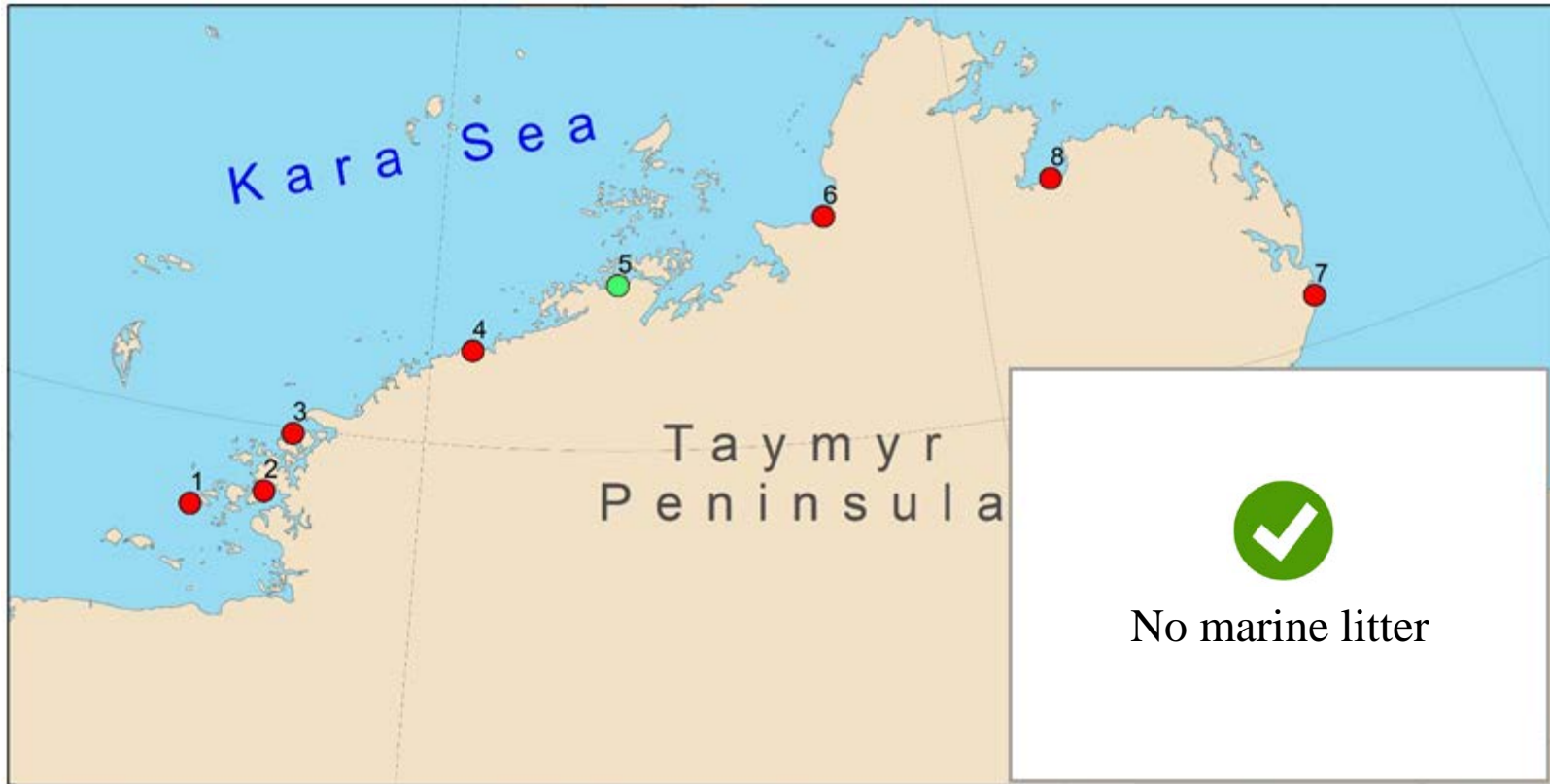


Sampling sites

Marine litter samples



Taymyr peninsula

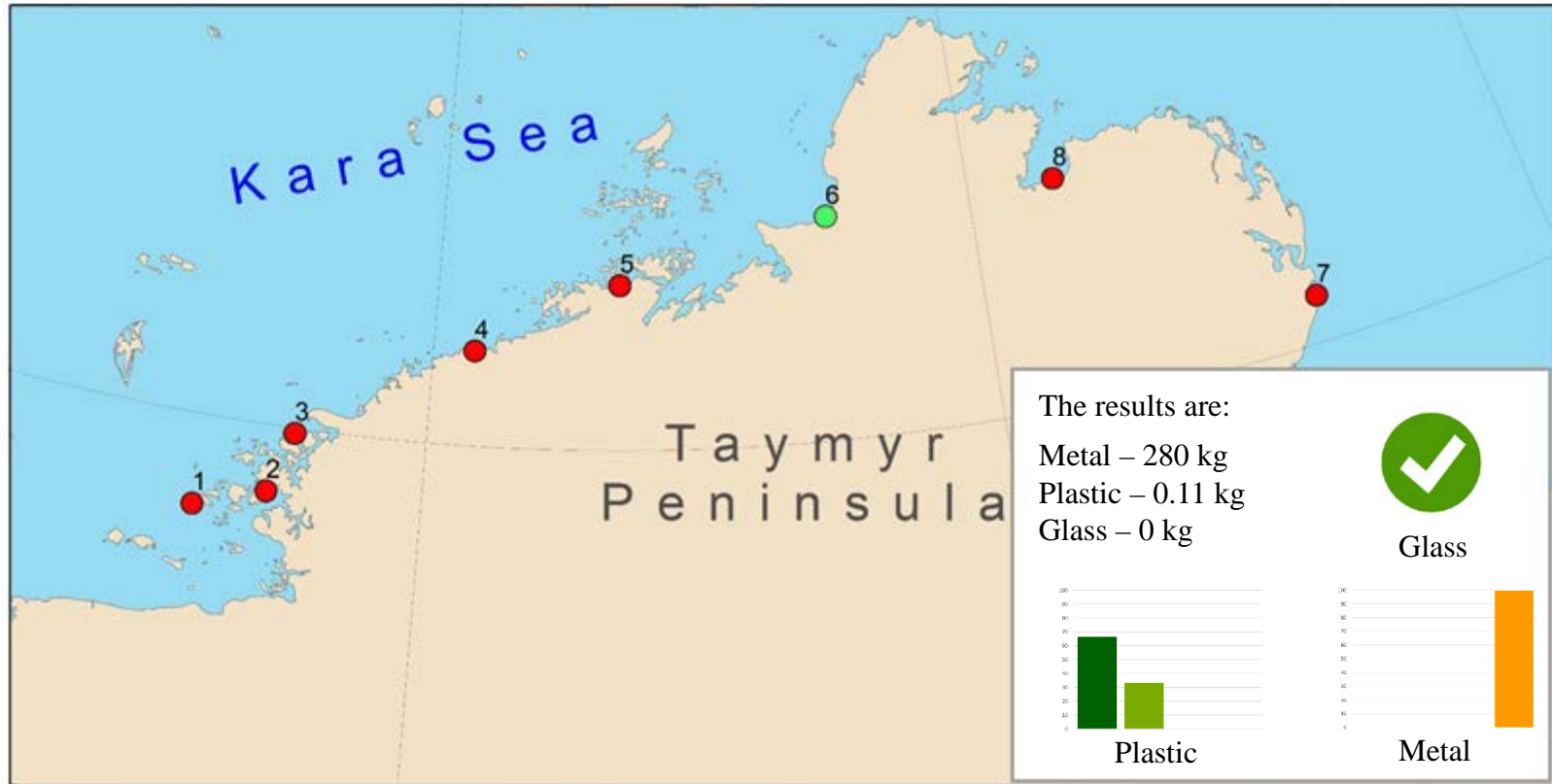


Sampling sites

Marine litter samples



Taymyr peninsula



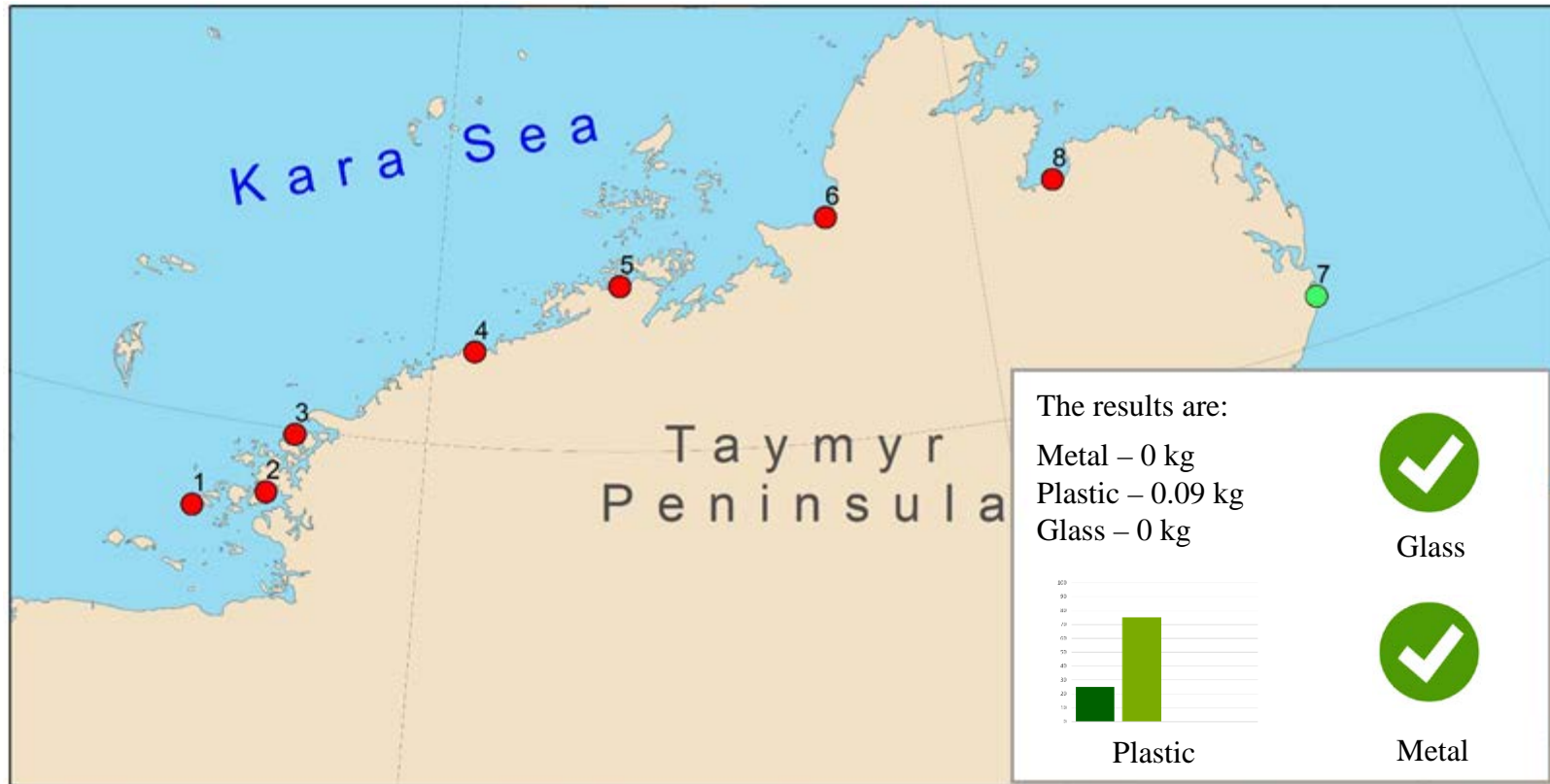
Sampling sites



Marine litter samples



Taymyr peninsula

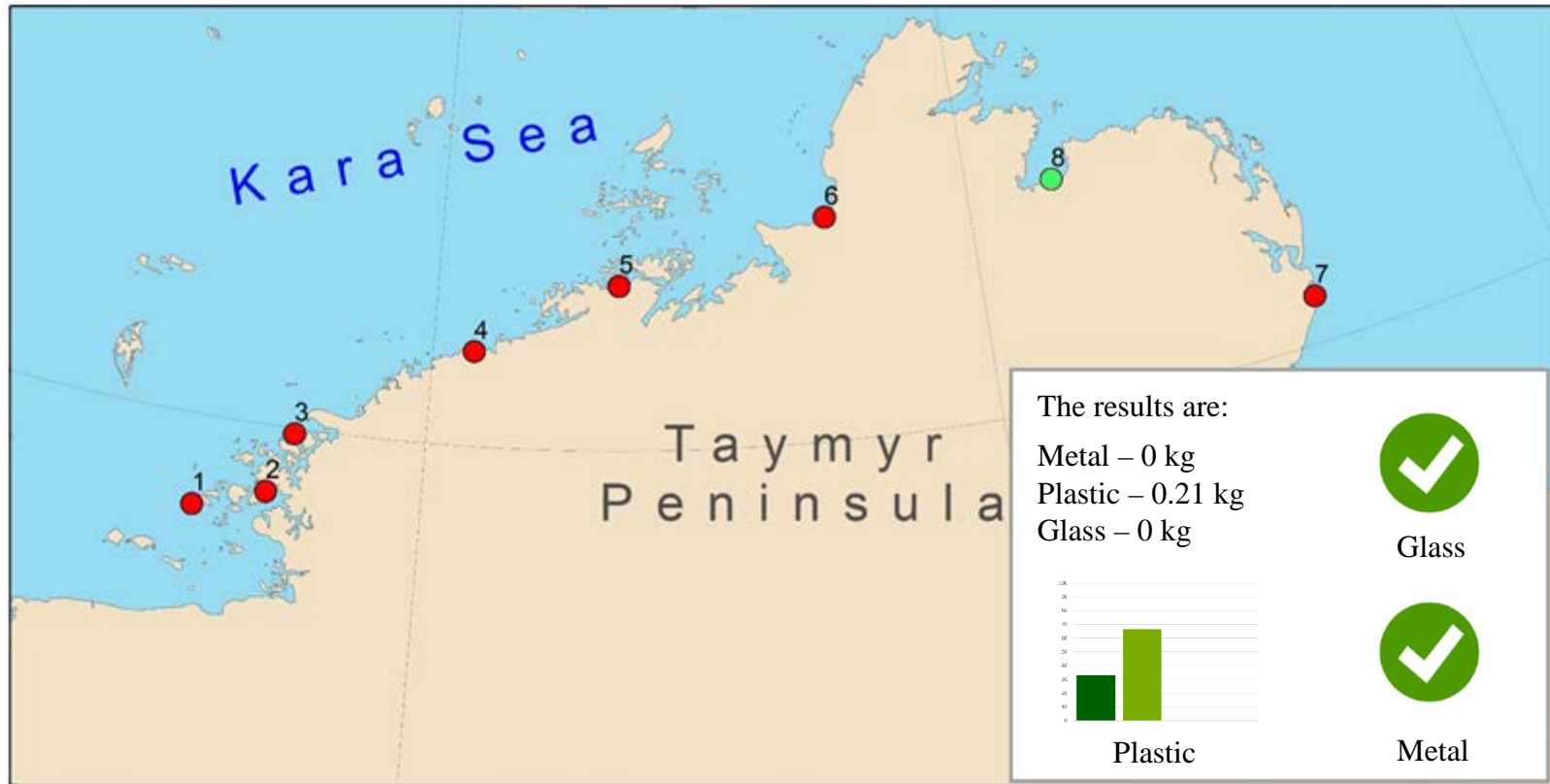


Sampling sites

Marine litter samples



Taymyr peninsula



Sampling sites

Marine litter samples



Further research in 2021

- Conducting monitoring in the Kola bay
- Expanding monitoring net within the borders of the Barents Sea
- Comparison of the methodologies





Thank you
for your attention!