Remote Sensing for Ecosystem Assessment

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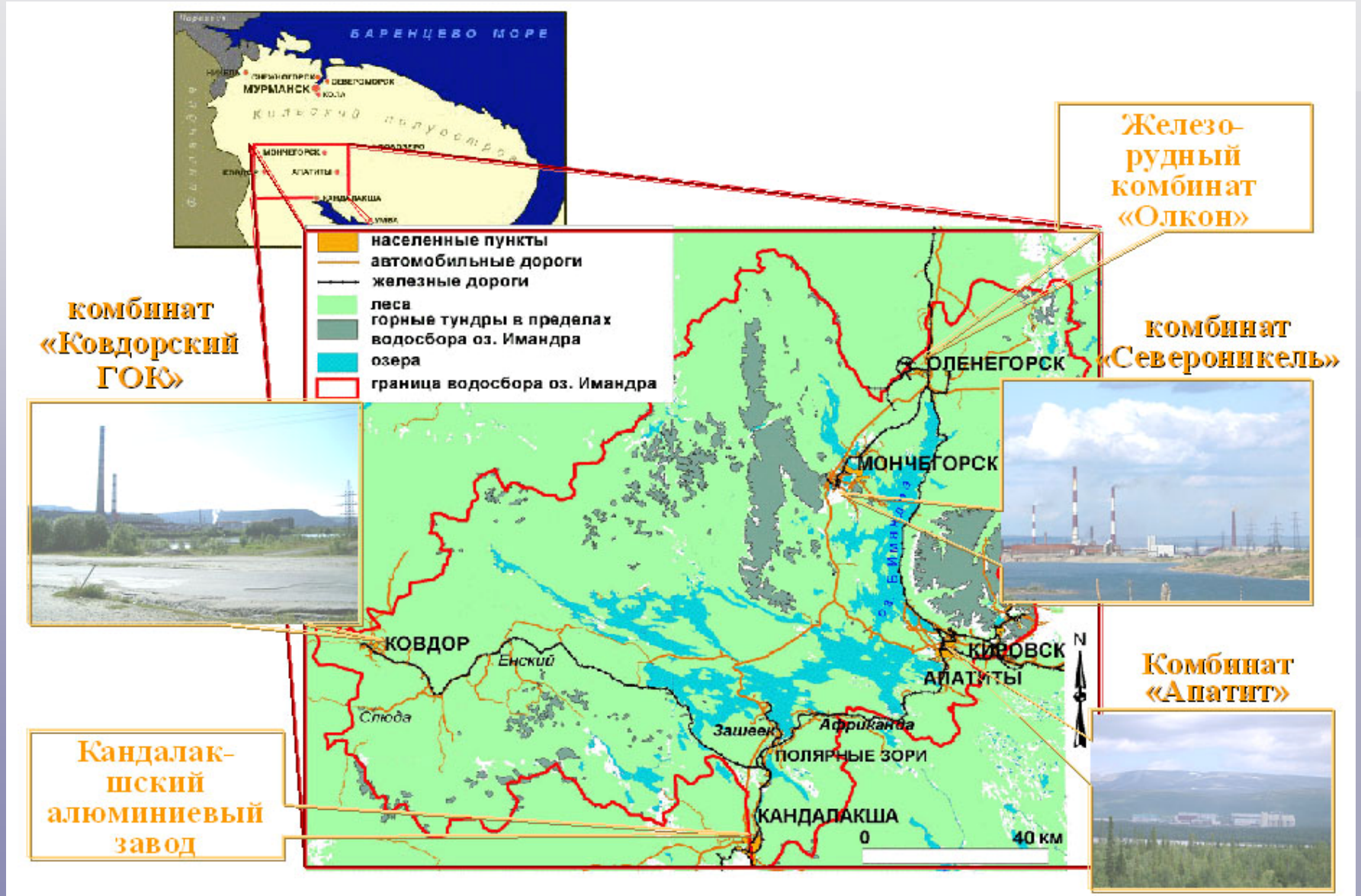
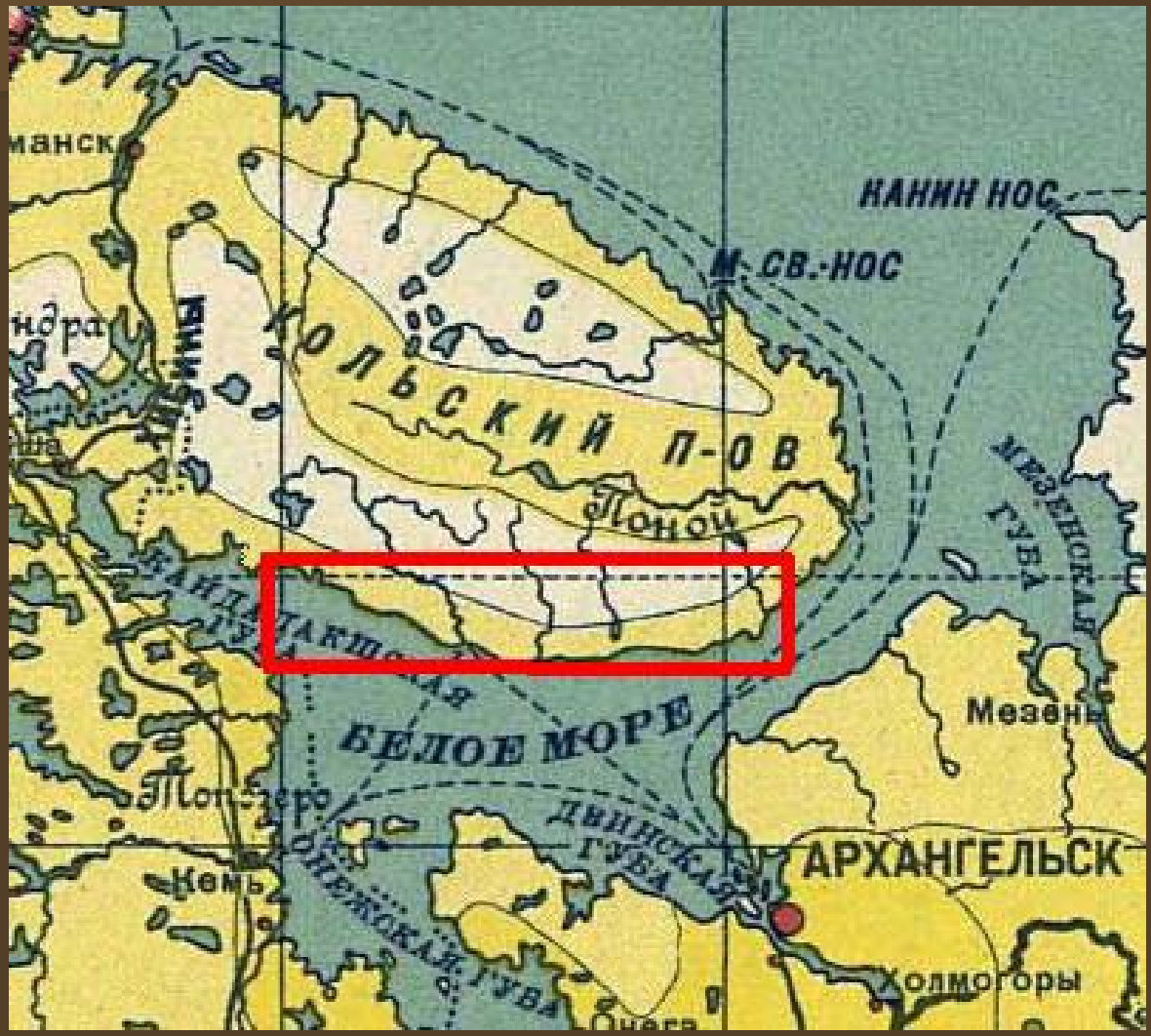
Area of Research



Directions of Researches:

- 1. Impact of non-ferrous metallurgy on ecosystems
- 2. Methodology for diagnostics of ecosystem (phytocenotic and geochemical criteria of ecosystem changes under industrial impact)
- 3. Development of satellite image interpretation methods for mapping the consequences of industrial impact
- 4. Assessment of the desert seaside ecosystems in Kola Peninsula (Terskiy coast of the White Sea)

Area of Research

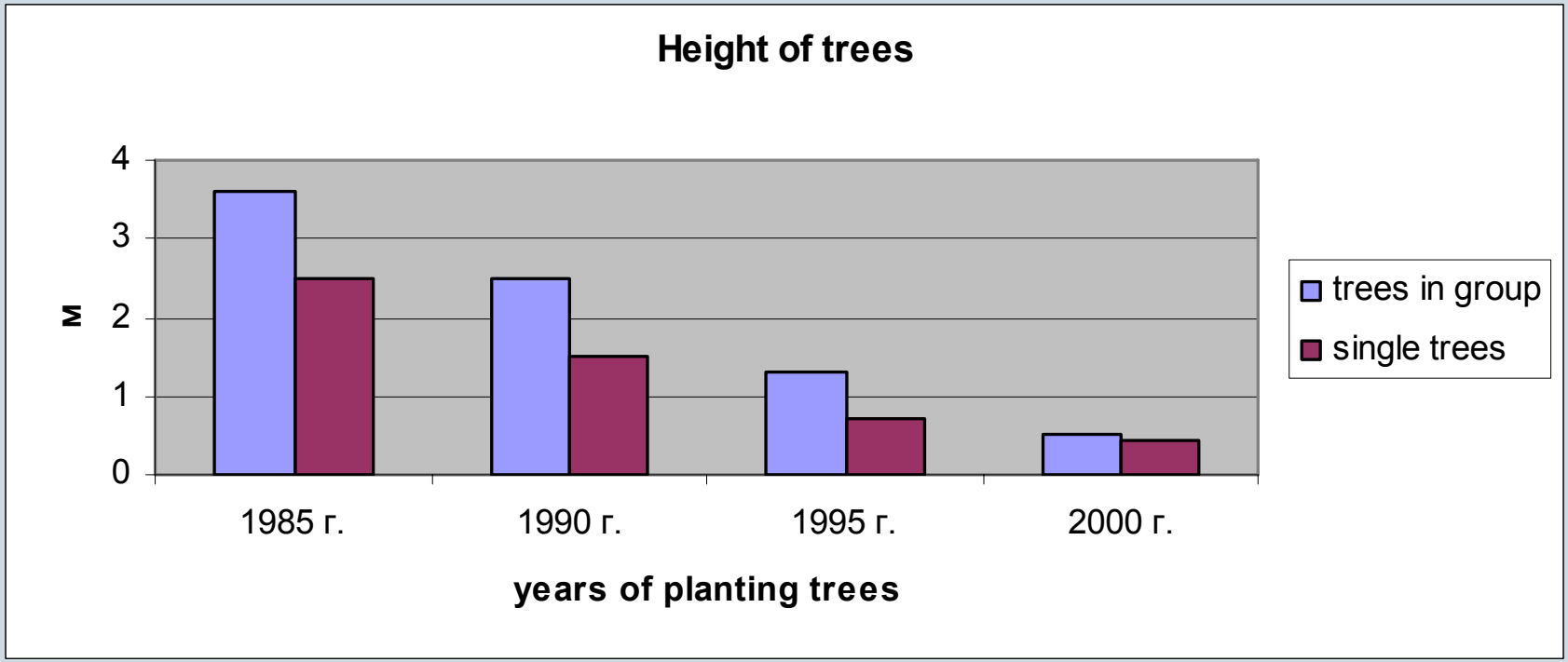


The aim of research –

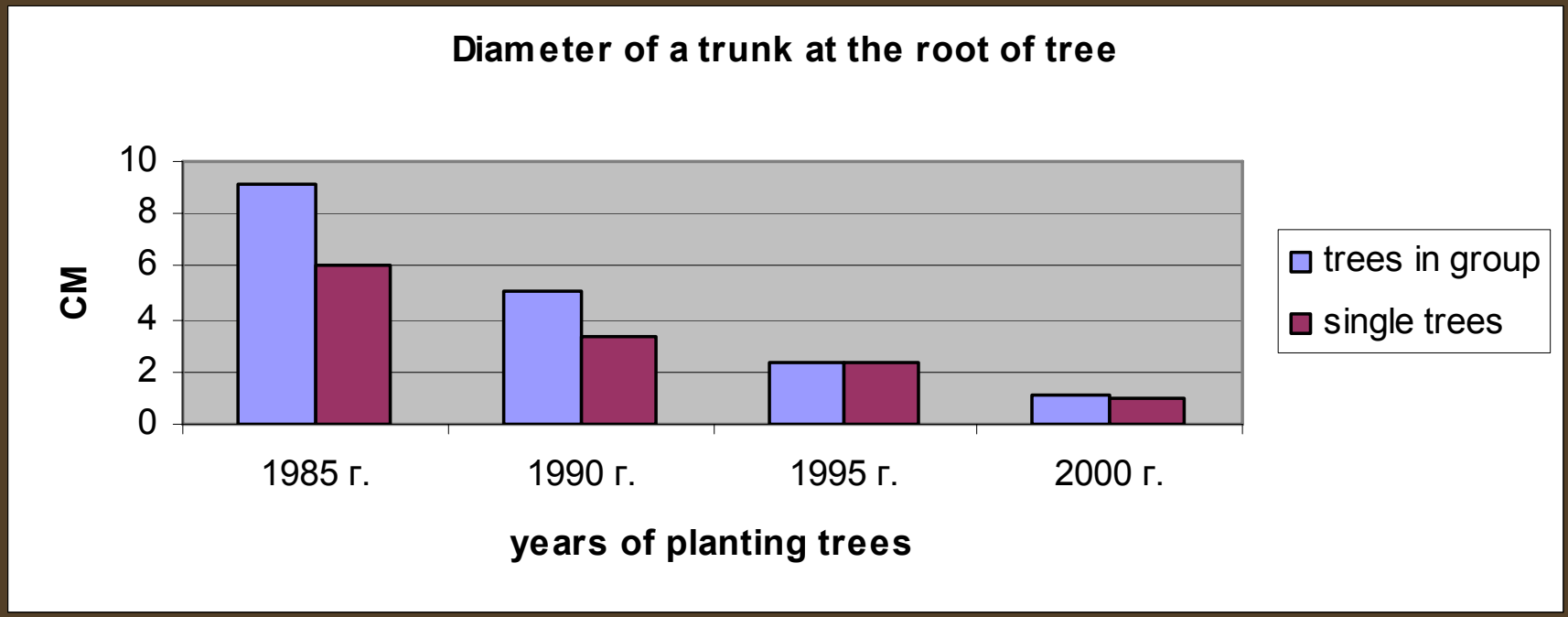
assessment of desert seaside ecosystems in Terskiy coast of The White Sea

Results

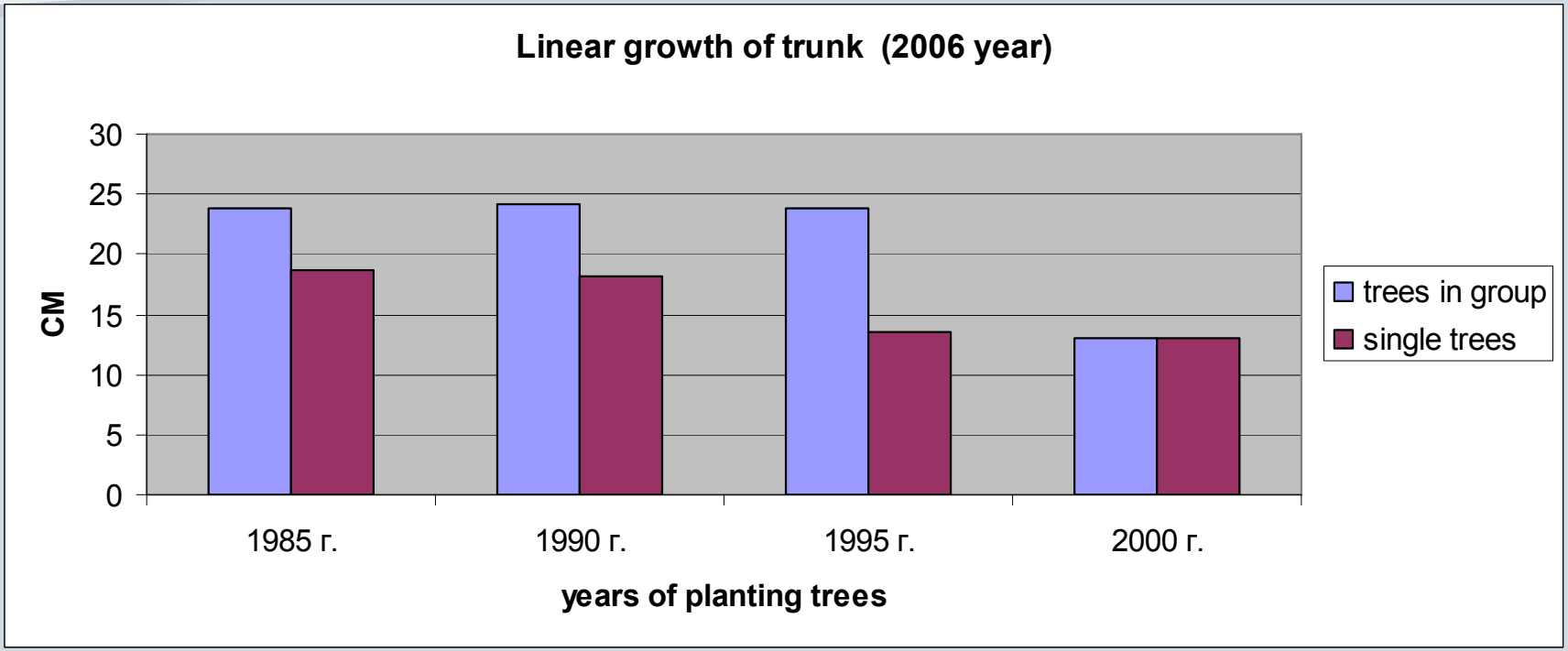
Height of the trees



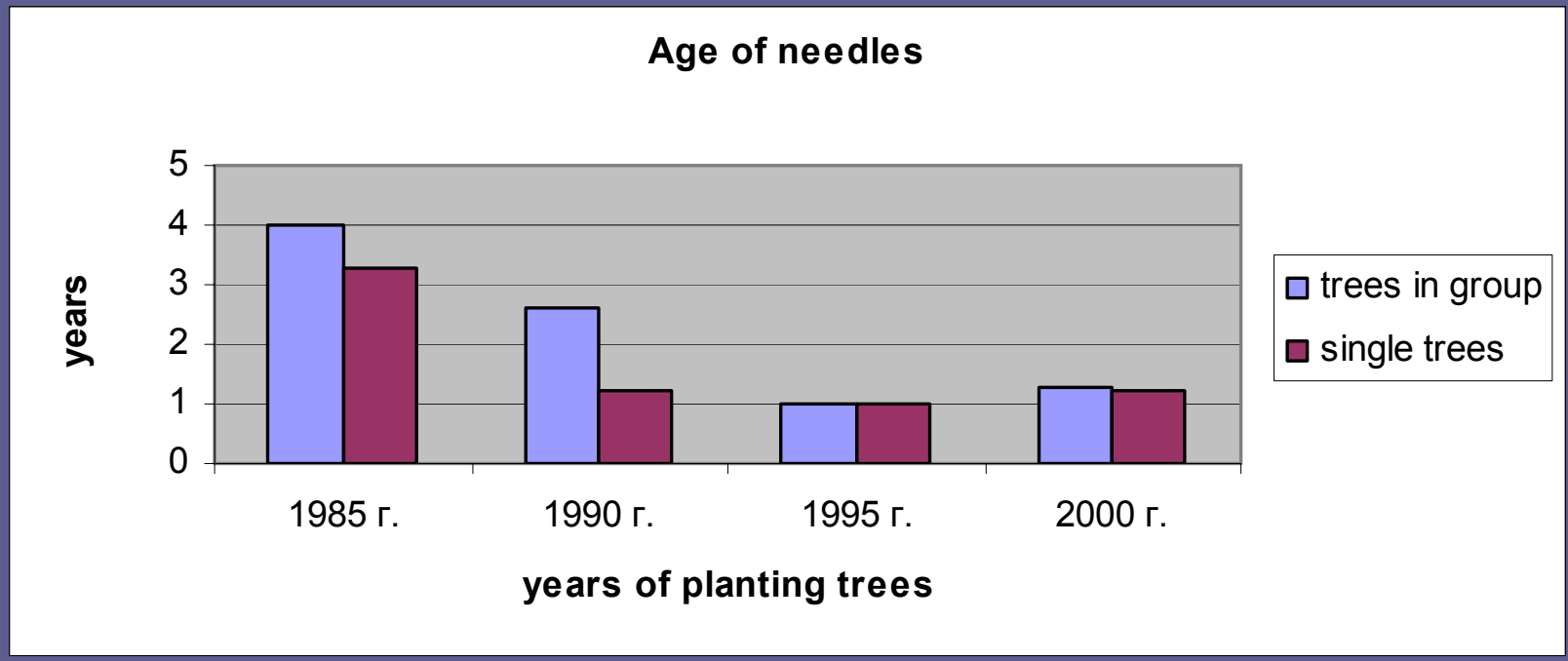
Results


Diameter of a trunk at the root of tree
10
8
6
4
2
0
CM
1985 г.
1990 г.
1995 г.
2000 г.
years of planting trees
trees in group
single trees

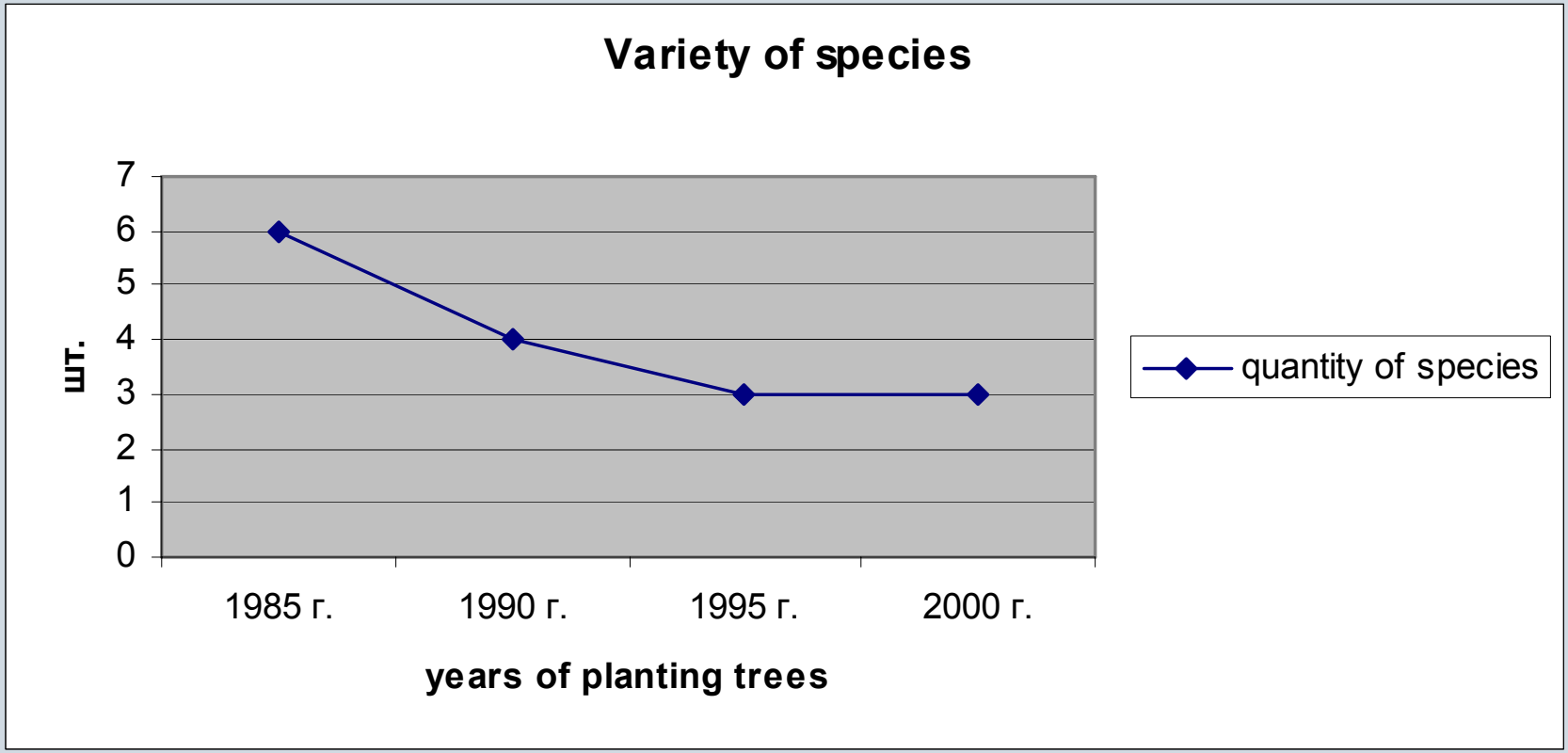
Results


Linear growth of trunk (2006 year)
30
25
20
15
10
5
0
CM
1985 г.
1990 г.
1995 г.
2000 г.
years of planting trees
trees in group
single trees

Results


Age of needles
years
5
4
3
2
1
0
1985 г.
1990 г.
1995 г.
2000 г.
years of planting trees
trees in group
single trees

Results


Variety of species
7
6
5
4
3
2
1
0
шт.
1985 г.
1990 г.
1995 г.
2000 г.
years of planting trees
quantity of species

Planting of 1985 year

Trees in group,1985 year

Trees in group, 1990

Single trees, 1990

Trees in group, 1995

Single trees, 1995

Trees in group, 2000

Single trees, 2000

Е.И.Голубева, У.Г.Рис, В.И.Кравцова, А.В. Краснушкин, О.В.Тутубалина,
А.В.Говорова, Е.А.Шипигина, Е.В.Хорохорина

Дистанционные методы для оценки состояния экосистем на примере Кольского полуострова
Учебное пособие для летней полевой школы

под редакцией А.П.Капицы, Ю.Ф.Книжникова, В.И.Кравцовой

Thank you