



The Baltic Sea Project



Baltic Sea Project (BSP) within UNESCO Associated Schools Network (ASPnet) air quality programme Estonian activity report 2018/2019

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Observation results were sent from 9 schools

- Audentese Erakool (Küllil Relve, 8. class) – part II
- Jõhvi Põhikool (Tiina Gaškov, 6. class) – parts II, IV
- Kadrina Keskkool (Siret Pung ja 10. class) – part III
- KJP Gümnaasium (Helgi Muoni, 10. class) – parts III, IV
- Põlva Kool (Urve Lehestik, 8. class) – parts II, III, IV
- Pärnu-Jaagupi Põhikool (Hele Nööri, 5. class) – parts III, IV
- Pärnu Ülejõe Põhikool (Daisy Kärner, 8. class) – parts II, III
- Tallinna Mustamäe Gümnaasium (Maarja Rips, 4. class) – part III
- Viimsi Kool (Meri Heinsalu, 8. class) – parts I, II

Possible sources of pollution indicated by students (in descending order)

1. Road transport, traffic
2. House heating, stove heating
3. Airport, Tartu Brewery, Tartu House, Liquid Fuel Boiler House, Muuga Harbor, Utilitas Cogeneration Station (all mentioned once)

„Fir trees“ – first part of the program
Number of observation protocols - 1

The name of the part of the program	Average result
1. Needle loss class	1,8
2. No. generations of needles	5,7
3. Occurrence of fear shoots	2

„Lichen“ – second part of the program
Number of observation protocols - 4

The name of the part of the program	Range of average results
1. The number of kinds of different types of lichen	2,2. – 3,8. tsoon
2. Coverage	4. tsoon (44,2% - 69%)

„Tar Spot Fungus (*Rhytisma acerinum*)“ –
third part of the program

Number of observation protocols - 6

The name of the part of the program	Average result
Tar Spot Fungus (<i>Rhytisma acerinum</i>)	2,6. tsoon

„Discussion“ – fourth part of the program

Number of observation protocols - 4

The student of KJP Gymnasium pointed out building dust which prevents photosynthesis from falling on the leaves. Concerning the polluting effects of car traffic, specific oxides were also mentioned.

Although Põlva School and Pärnu-Jaagupi School found sources of air pollution, the air quality proved to be high.

Pärnu-Jaagupi School notes that this year there is lot of black spots on the maple leaves. Trees look black.

The nearby source of air pollution was noted by Jõhvi School and the air quality turned out to be lower than in other observation areas.

Development activities carried out

- The observation sheet and instructions were translated into Estonian
- A separate worksheet was developed on the basis of the third part of the observation sheet. The use of this observation sheet was promoted and pupils were directed to independent observation during the school holidays.
- A Google Drive survey for Christmas tree was developed based on conifers survey (part I)
- The number of participating schools has slightly increased

If you are looking for a frined school from Estonia and want to collaborate to make air quality measurments simultaneously with our schools then write to the national Estonian BSP coordinator Gedy Matisen, gedy.matisen@tartuloodusmaja.ee and we will find you a school from Estonia who you can collaborate with!