



United Nations
Educational, Scientific and
Cultural Organization



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The Baltic Sea Project

ESTIMATION OF AIR QUALITY USING BIOINDICATORS
The Baltic Sea Project within UNESCO ASPnet

All year round: condition of fir trees, lichens, tar spot fungus – protocol to be sent to coordinator (<https://unesco-bsp.blogspot.com/p/coordinators.html>)

Date School

Teacher Class/Group

Address

Natural conditions and topographical situation (coastal, inland, mountain, plain)

Possible local source of pollution

I Fir trees

1, 2, 3. Investigating forest damage in fir trees

Name of the tree (fir, spruce or pine)

Tree no.	1	2	3	4	5	6	7	8	9	10	Mean value
1. Needle loss class (1, 2, 3)											
2. No. generations of needles											
3. Occurrence of fear shoots (1, 2, 3)											

II Lichen

1. Counting the number of kinds of different types of lichen

Name of the tree (English or Latin name)

Tree no.	No. kinds of crustose lichen	No. kinds of foliose lichen	No. kinds of fructicose lichen	Zone
1				
2				
3				
4				
5				
Mean value zone:				

2. Determining the degree of coverage of the lichen

Name of the tree (English or Latin name)

Tree no.	Coverage of crustose lichen in %	Coverage of foliose lichen in %	Coverage of fructicose lichen in %	Total coverage of the whole overhead film in %
1				
2				
3				
4				
5				
Mean value :				
Zone :				

III. Tar Spot Fungus

Name of the maple tree (English or Latin name)

Zone

IV. Discussion of the result and the state of the air on a separate paper.