

COMENIUS project for schools
„Learning about air pollution“ ???

„Atmospheric aerosol and global climate
change“

Title will be decided in Tartu meeting, October 5, 2011

“Learning about air pollution”
is initiative of GLOBE Estonia and
GLOBE France

Project aims

- Increase awareness of students and teachers on air pollution and global climate change
- Improve students' knowledge and skills in math and science through hands-on activities
 - Observe and measure atmospheric aerosols
- Develop understanding of connection of local and global air pollution;
- develop responsibility of students about environment in Europe

Strategy (1)

Learn about atmospheric aerosols, their local and global impact

- Develop and share curricula-adopted learning activities to study aerosol effects on
 - Earth radiation balance,
 - local aerosol emissions
 - air quality in Europe
- Use satellite remote sensing products for learning atmospheric aerosols
- Perform observations and measurements with hands-on instrumentation

Strategy (2)

- ① Share and compare internationally
 - learning materials
 - measurement results and visualizations
- ② Organise discussions on improvement air quality in Europe and decreasing emission of climate change agents
- ③ Take local initiatives for decreasing aerosol emissions

Project measurements / observations

- GLOBE atmospheric measurements
- Aerosol optical thickness (AOT),
 - **Equipment:** from GLOBE-France advisors Danielle and Ülle
- Airborne Black Carbon (soot)
 - **Equipment:** from GLOBE-Estonia, advisors Ülle, Karli
- Microbiology of air samples
 - air samples from school,
 - microbiological investigation of samples (to be developed with scientists/experts)

Organising

- Age of students 14-17
- Coordinator Tartu Kivilinna Gymnasium
 - <http://www.kivilinn.tartu.ee/>
 - Ms Karin Lukk, Ms Helgi Muoni
- Participating countries
 - Estonia, France, Czech Rep, Belgium, Germany, Turkey
- Project will be applied in February 2012
 - project period August 2012 – August 2014
- Preparatory meeting:
 - 5-7 October 2011 in Tartu, Estonia

List of registered schools

- Kivilinna Gymnasium, Tartu, Estonia
 - Teachers: Karin Lukk, Helgi Muoni, Aigi Kikas, Sven Hendrikson
- Gymnazium Ceska Trebova, Ceska Trebova, Czech
 - Hana Grundova
- Saint Joseph, Villefranche de Rgue, France
 - Gilles Fleuret
- Collège Marguerite de Navarre, Pau Cedex, France
 - Puig Jean Noël
- Lycée Bernard Palissy, Agen Cedex, France
 - Michel Pedurand
- Belgian school
 - Sebastien Labiaux, C. Destoky

ÜK for GLOBE CC-s in Kiew, June 2011

THANK YOU!

Atmospheric aerosols

