



Web-based and Science driven Earth System Education

E. Uherek

Max Planck Institute for Chemistry, Mainz, Germany (uherek@mpch-mainz.mpg.de)

Earth system teaching is nowadays introduced in the European school curricula as a virtual interdisciplinary subject, which shall be addressed by teachers in different school subjects. The need for comprehensive teaching concepts is amplified by the increasing interaction of severe weather events, climate change, water shortage, vegetation changes, agricultural management, energy demand, air pollution and personal behaviour. Such interlinks between physics, chemistry, biology, geography and social science are however not well represented in many traditional lesson plans. Furthermore up to date information is often missing in the school books. Therefore diverse digital resources have been made available in European education projects, also in joint efforts of teachers and partners in research. The ACCENT Global Change Magazine, the ESPERE Climate Encyclopaedia, the QUANTIFY project on Transport and Climate and the OOMPH ocean project give different examples of approaches how to inform pupils, teachers and the interested citizens in an understandable way about the present scientific knowledge. It will be valuable for learners to integrate these and other, also future efforts into an environmental learning network which guarantees high quality, understandability and updated resources in the long term. We invite to discuss co-operation on a European scale.