

1st Annual Report

Summary

The main objective of this reporting period was to strengthen cooperation between Romanian institutions having expertise in atmosphere remote sensing and also to initiate Romanian consortium for participation in European research infrastructures like ICOS, IAGOS and ACTRIS.

Based on national and international relations of the partners in the consortium, based on meetings and discussions with various institutions with expertise in the field of Earth system science and centralize information based on existing infrastructure in Romania relevance to the field, was developed a framework document collaboration and were identified the steps to integrate Romanian infrastructure in Europe proper infrastructures. The document was submitted to be consulted to partners in Romania, and will be operational after will be signed.

Were also identified ESFRI ENVIRONMENT projects on 2010 roadmap where Romania is interested to participate mobilizing existing national infrastructures: IAGOS, ICOS, EPOS, COPAL and ACTRIS.

Beside the unification and strengthening collaboration activities between Romanian institutions with expertise in physics and atmospheric chemistry, we begun preparation for the next year campaign. During January-February 2013 will be held ACTRIS - EMEP campaign intensive measurements an international campaign that has as subject aerosols and oxidation capacities, both at ground level and altitude . INOE will be involved in this campaign as active remote sensing ACTRIS station. Will be used both multi-channel Raman lidar system (RALI) and aerosol mass spectrometer (C - ToF AMS). AMS combines the detection of mass spectra flight time to investigate particle concentration, chemical composition and size distribution of submicron aerosols.

Another objective of the reporting period was to develop and implement the project web site. Based on modern technology publishing websites, CAPES a project website is designed as a dynamic site with a well-defined structure so that the user can easily navigate and obtain desired information in near real time.