

Greenhouse gas monitoring and research programs in Hungary

László Haszpra

On 14th April 2015 at 09:00 am to 10:00 am in a large meeting room

Global Change Research Centre AS CR, Bělidla 986/4a, 603 00 Brno

László Haszpra has been responsible for the monitoring and research programs at Hegyhatsal tall-tower station since its construction in 1993. At present he is a full time adviser of the Hungarian Meteorological Service and a part time scientific adviser of the Research Centre for Astronomy and Earth Sciences of the Hungarian Academy of Sciences.

Abstract:

The lecture presents the Hungarian greenhouse gas monitoring and research programs going back to 1981. Emphasis is given to the Hegyhatsal tall-tower monitoring site established in 1993 where most of the activities have been performed in international co-operations.

The lecture presents the facilities and the instrumentation operated at the station. In addition to the overall tendencies in the atmospheric concentration of greenhouse gases as they have been measured at the Hungarian sites we will speak about the biosphere-atmosphere exchange of carbon dioxide and its dependency on the weather conditions and about the mathematical modeling of the exchange process based on the measurements at Hegyhatsal. The aircraft measurements over the tower gave us insight to the vertical distribution of CO₂ in the boundary layer and gave some information on the spatial representativeness of the tower measurements. Finally, there will be a few words about the future plans for the operation of the station.