

Meteorology in Croatia, 1999–2002

*Report to the International Association of Geomagnetism and Aeronomy
of the International Union of Geodesy and Geophysics.*

Scientists employed in Meteorological and Hydrological Service of Croatia and in the Geophysical Institute »Andrija Mohorovičić« have been engaged in activities within the research field of meteorology. Most of investigations during the period from 1999 to the middle of 2002, were made within the scientific projects Weather-Climate Forecast along Adriatic-Pannonian Profile, Atmosphere-Sea Interactions and Meteorological Multilanguage Glossary. After the middle of 2002, the studies have continued within the projects: Observation Methods and Meteorological Data Assimilation, Storms and Natural Disasters in Croatia and Atmosphere-Adriatic System.

Within a frame of the first project cited, vertical gradients of evapotranspiration and precipitation amounts have been determined for the Lika and Gorski Kotar area. A correlation between precipitation amounts for the same area and global circulation parameters was established. In addition, a space distribution of seasonal precipitation amounts were studied including some extreme events for shorter time scale. Using a singular spectral analysis procedure, a secular average temperature time series for Zagreb (1862–1999) was studied. Influence of wind and snow cover on infrastructure objects have also been considered. Within the scope of the second project, ground level monthly average Sun's direct, diffuse and global irradiation for Zagreb was modeled. Average monthly temperature anomalies as well as multimonhly precipitation amount anomalies for Zagreb were analysed within a period of 30 years. Monitoring and appropriate interpretation of the ozone layer condition, as well as influence of Sun's irradiation were continuously performed. Some new meteorological notions have been included within the Meteorological Glossary under the third project activities. Research work within the framework of the other three projects is just starting.

Scientists (mainly meteorologists) have been included in activities of more than thirty international and domestic conferences and a number of scientific papers were published covering theoretical and practical topics. The papers are related to the numerical modelling, severe weather study, influence of weather on national electricity infrastructure, traffic and biometeorological research.

Croatia is included in the international meteorological projects such as MAP (Mesoscale Alpine Programme) or MEDEX (Cyclones that Produce High Impact weather on the Mediterranean). The first is focused on the Alpine and the second on the Mediterranean weather events. Croatian scientists presented their results in meetings and conferences devoted to the above projects.

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