



EUROPEAN COMMISSION  
DIRECTORATE GENERAL JRC  
JOINT RESEARCH CENTRE  
Institute for Environment and Sustainability  
Land Management & Natural Hazards Unit

## FIELD TRIP 30<sup>th</sup> September 2006

Daruvar is a town in central Croatia. It is located 125 km from Zagreb. Daruvar is a spa town, located in the western part of the Croatian plains, on the foothills of the fruitful Papuk mountain, with wine tradition longer than 2200 years, and along the fertile Ilova river. The lunch will be held in "Daruvar spa".

Departure from Zagreb (FAZ) to Daruvar:       **8:00**  
Return to Zagreb (FAZ) at:                       **17:00**

### Topic of the field trip: **STATIONARY INVESTIGATIONS OF WATER EROSION IN AGROECOLOGICAL CONDITIONS OF MIDDLE CROATIA**

From the 1994 on Stagnic Luvisols (pseudogley) in the Daruvar area, on 6 enclosed plots (22,1 x 1,87 m, slope 9%) under common agricultural crops grown, the run off and soil loss and the effects of tillage on the chemical, physical and biological soil properties are monitored. The tillage variants are: 1. Standard plot - black fallow - tillage up/down the slope, without sowing 2. Tillage up/down the slope. 3. No - tillage, sowing is down the slope, weed control by total herbicides. 4. Ploughing across of the slope. 5. Very deep ploughing across of the slope (till 60 cm) and 6. Subsoiling to the depth of 60 cm + ploughing across of the slope. The object is based on the soil loss; determine the most reliable, economically and ecologically acceptable tillage system in plant production on Stagnic Luvisols in agroecological conditions of central Croatia. A further object is to check the USLE (Universal Soil Loss Equation), RUSLE (Revision USLE), WATEM (Water and Tillage Erosion model), PESERA (Pan-European Soil Erosion Risk Assessment) and other prediction technology.

Field trip moderator: Prof.dr.sc. **Ivica Kisic** ([ikisic@agr.hr](mailto:ikisic@agr.hr))

This field trip is optional. All workshop participants are invited to register for the field trip to the meeting secretary Kristina Ferara ([umo@agr.hr](mailto:umo@agr.hr)), prior to the start of the meeting.