

FG4: Water management and LC impacts: river watersheds, catchments, dams, snow [Leads: V. Starodubtsev/ I. Pilas, Victor Lagutov]

1) LC and hydroclimatic changes in river basins / watersheds and effect on surface water bodies, groundwater (Danube, Dnipro, Don) – dams, water reservoirs

- 1.1 Detection of changes using Landsat 4-5,7,8, Sentinel 2 change detection 1980-2018 (other global scale products MODIS, NOAA...) and satellite vegetation trends (Vladimir S., Ivan P.); paper: JRC/Allan Belward, Global water watch ... 30 m; evaluate results for SCERIN areas (pilots)
- 1.2 Implement for SCERIN hydrological models using satellite information (Land cover change 1980:2018): SWAT- hydrological response units, DRAINMOD (Ivan P., Victor L.); pilot for Croatia – Ivan P.
- 1.3 Database of resources for MW data for use , and use of available field data and products: European scale climatic data (ECA&D), information of groundwater monitoring wells, surface water level, srtm and local DEM, GCM/RCM

2) SNOW trends interpretation in SCERIN, paper to interpret : use of GMAO data, weather data; EU ground station data 30 km grid precipitation, min/max temperature 65 years of daily trends (Ivan P.)

- 2.1 Petya to generate a table by country of interested SCERIN contributors and send list to Geoff ;
- 2.2 Geoff will contact directly participants requesting input, timeframe – early Fall

3) Capacity building in making use of and promoting water-focused RS research and projects (workshops, repository of best practices - <http://isepei.org/training-manual>)

Link to the current EU activities:

- CA COST Action CA15206 Payments for Ecosystem Services (Forests for Water) http://www.cost.eu/COST_Actions/ca/CA15206
- CA COST Action CA16208 KNOWLEDGE CONVERSION FOR ENHANCING MANAGEMENT OF EUROPEAN RIPARIAN ECOSYSTEMS AND SERVICES http://www.cost.eu/COST_Actions/ca/CA16208
- INTERREG CROATIA-HUNGARY „OAK PROTECTION”
- HORIZON 2020 „MY SUSTAINABLE FOREST”