



FP7 project MyWater - Merging hydrologic models and EO data for reliable information on Water

Antonio Araujo (1), Pedro Chambel (2), Adélio Silva (3), Slavco Velickov (4), Schalk van Andel (5), Gergely Toth (6), Waldenio Almeida (7), Andras Mako (8), Thomas Alexandridis (9), and Domingos Cugala (10)

(1) GMV, Portugal (antonio.araujo@gmv.com), (2) Instituto Superior Técnico, Portugal (chambelpc@ist.utl.pt), (3) Hidromod Modelação em Engenharia Lda, Portugal (adelio@hidromod.com), (4) Hydrologic Research BV, Netherlands (slavco.velickov@hydroresearch.com), (5) Institute for Water Education - UNESCO-IHE, Netherlands (s.vanandel@unesco-ihe.org), (6) Joint Research Center - JRC, Belgium (gergely.toth@jrc.ec.europa.eu), (7) Instituto Nacional de Pesquisas Espaciais, Brazil (waldenio.almeida@cptec.inpe.br), (8) University of Pannonia, Hungary (mako@georgikon.hu), (9) Aristotle University of Thessaloniki, Greece (thalex@agro.auth.gr), (10) Eduardo Mondlane University, Mozambique (dcugala@uem.mz)

21st century reality already sees 2.5 billion people without adequate access to water, whilst climate changes lead to dramatically changing water resources availability and needs. These changes will influence all citizens, and authorities will need more reliable information to adapt to the new situation. The MyWater project responds to these challenges, implementing a new information platform which integrates data from three scientific research areas – earth observation, catchment modelling and meteorology – to better access hydrological processes. This platform will allow a quasi-automatic service chains which output user tailored results like: drinking water needs (quantity and quality), agriculture water needs, water health related indicators, flood scenarios, etc. Overall, MyWater will provide reliable information on water quantity, quality and usage for appropriate water management, improving knowledge and creating the forecasting capabilities necessary to catchment managers, and at the same time optimizing the ratio cost/benefit of water resources monitoring.

The work presented regards to the FP7-EU project "Merging hydrological models and Earth observation data for reliable information on water - MyWater".