

WorkBlock 3: Global Water Cycle in 21st Century

Major Milestones for the full project duration



Work package	Milestone	Date* month	Description	Relevance to policy makers
WP3.2	M3.2-1	12	Identification of geographical regions, where high-resolution atmospheric forcing will make a significant difference compared to the coarse resolution GCM forcing.	Identification of hotspots where, on a regional scale, atmospheric drivers will significantly influence the global water cycle.
WP3.1	M3.1-1	18	Preliminary set of global hydrological simulations for the 21st century	Start of simulations for future scenario of global water cycle.
WP3.2	M3.2-2	18	Analysis of existing climate model results on hydrology over Europe	Focusing on the region of Europe, assess the climate models used at present and their results for the water cycle over Europe.
WP3.3	M3.3-1	18	A socioeconomic framework is prepared for use in the hydrological simulations for the 21st century.	This framework will focus on land use and CO ₂ growth.
WP3.1	M3.1-2	36	Final set of global hydrological simulations for the 21st century	Develop and use methods for correcting biases in model outputs and to quantify the resulting uncertainties in future estimations of the global water cycle.
WP3.1	M3.1-3	36	Identify regions that are vulnerable to changes in the hydrological cycle	Will result in maps identifying regions where the hydrological situation is significantly impacted by climate change in terms of e.g. precipitation, soil moisture, river discharge.
WP3.2	M3.2-3	36	Set of regional hydrological simulations for the 21st C	Using regional scale to consider changes to the water cycle. Regional analysis is useful as it has a higher resolution, especially to feed into the work done by WB4 (extremes) and WB6 (Water resources).
WP3.2	M3.2-4	36	Set of high-resolution (10km) regional hydrological simulations for the 21st C	
WP3.3	M3.3-2	39	Sensitivity of the regional hydrological simulations to the scenarios	Sensitivity experiments will be carried out the identify future changes in the regional water cycle to changes in land use and CO ₂ growth.
WP3.3	M3.3-3	39	Sensitivity of the global hydrological simulations to the scenarios	Sensitivity experiments will be carried out the identify future changes in the global water cycle to changes in land use and CO ₂ growth.

* Project started 02/2007 all months are counted from this starting date