Name of the project	**Development of methods and tools related to agro-climatology**
Overall objectives	• Contribution to NWP activities related to "Methods and tools" • Promote development and dissemination of methodologies and tools for climate change impact assessment
Project purpose	• Apply and develop methodologies and tools for impact, vulnerability and adaptation assessments related to agriculture • Develop methodologies and tools for adaptation planning, measures and actions related to agriculture • Disseminate existing and emerging methods and tools

Activities	• Development of analytical tools to assess climate change impacts on agriculture and facilitate early warning, e.g.:
	  o global agroclimatic water stress mapping for early warning
	  o further development of food security early warning software packages (AgroMetShell) including crop monitoring and crop yield forecasting tools at multiple temporal and spatial scales
	• Development of methodologies to assess climate change impacts on agriculture and facilitate early warning, e.g.:
	  o a comprehensive farm adaptive dynamic optimisation approach (FADO)
	  o an agricultural disaster assessment routine (RADAR)
	• Application and dissemination of existing and emerging methods and tools in field projects, e.g. training package "Crop monitoring Box"(CM Box)

Expected results	• The developed methodologies and tools for impact, vulnerability and adaptation assessments related to agriculture are operational and experiences of pilot project(s) have been incorporated. • The developed methodologies for climate change adaptation planning, measures and actions related to agriculture are operational and experiences of pilot project(s) have been incorporated. • The implemented methodologies and tools have improved the adaptive capacity of rural livelihoods to climate variability and climate change.
Indicators of Achievement	• Publications on the developed methodologies and tools • Number of trained staff in agrometeorological and extension services • The developed methods and tools can be handled by the stakeholders

FAO Climate change Website: http://www.fao.org/clim/index_en.htm