A. General Information

A1	Project title
	CLOUD-BASED LATIN-AMERICAN ENVIRONMENTAL VIRTUAL OBSERVATORY

A2	Acronym
	CLEVER

A3	Research domain
	Computer Science (Informatique)

	Project goals
	- To design and build a framework for customizing and deploying service-based mashup systems dealing with climatologic data. - To build the first version of a climatologic virtual observatory, providing data, information and knowledge for scientists and non-expert users according to their interests and requirements. The virtual observatory will be built as a web service-based mashup system.

	Abstract
	In this project we propose a framework for building web service-based mashups, to be used for building a climatologic virtual observatory, providing data, information and knowledge for scientists and non-expert users according to their interests and requirements. The CLEVER project will develop general fundamental research topics that are in the centre of advanced research in systems construction and architectures. CLEVER will contribute to show the strong points of Latin America (LATAM) fundamental research in Computer Science and Information Technologies. Concerning social impact, climatologic issues and control on natural diversity must be developed and promoted in LATAM. Thus, having tools for implementing systems for supporting information and data exchange, along with the automatization of processes, will certainly contribute to the sustainable development of the region. The consortium of CLEVER will also help to have a generic solution adaptable for the three participating countries. The CLEVER team will collaborate with Uruguay's National Meteorological Department to use the results of CLEVER as a permanent resource and to set it as the basis for a regional Latin-American virtual observatory of the environment. CLEVER will also consider existing projects concerning the observation of climate data in different countries but it will contribute to the integration of data by mashing up data in order to exploit existing databases and observations spread out in LATAM and around the world.