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SOS in action: various fields of application

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The Sensor Web Enablement has indicated a set of rules that allow the integration of sensors and the observations they detect within a Spatial Data Infrastructure. The SWE services have changed the way of expose and share data collected by distributed sensors, as at the moment they constitute the only actual opportunity for a standardized and interoperable spread of observations. In fact sensors of various types (fixed, mobile, in-situ and not in-situ) can be registered, observations on time series or representatives of bi- and three-dimensional domains can be shared, and finally access selected by either geographical, or time istance or time range, and concerning one or more Properties or Procedures can be performed by getObservation operations.
In this work are presented some experiments concerning the possibility to use the Sensor Web Service in different sectors (meteo-hydrology, biology/ecology, physics, chemistry and remote sensing), introducing the possibility of using requests like RegisterSensor, InertObservation and GetObservation, assessing the critical aspects, gaps or points of force, and finally test the interoperability within different clients.