

# **Distribution of climate data with WEB Service technology**

**S. Agersten** (1), **M.Huse** (2)

Norwegian Meteorological Institute, Boks 43 Blindern 0313 OSLO (1,2)

The use of WEB Service opens up for using always fresh and updated data. Instead of downloading static ASCII files with climate data, it is now possible to subscribe data, and get the data on request in a machine to machine interface. WEB Services is in fact WEB-technology, but not in the way users think about WEB - as an interactive user interface. WEB Service is a well defined machine interface using WSDL-Web Services Description Language. The users can build a user interface based on the methods and data from the WEB Service! WEB Service technology is based on standards and is platform and programming language independent. Norwegian Meteorological institute has built a WEB Service to distribute climate data. This is done by defining different methods so that the users can get the data they want; Like methods for exploring: What data are accessible for different periods? Which weather elements is in use? Which time series are available for a specific station? The time series is written in XML-format and is easy for the user to navigate in and use as a 'database'.

It is a need among scientists and other users to get fresh and high qualified data quick and safe. WEB Service is a good and still developing technology easy to use in this purpose.