



The project CLIMANDES – Creating climate services for the Peruvian Andes

Stefanie Gubler (1), Mischa Croci-Maspoli (1), Thomas Konzelmann (1), Clara Oria (2), Gabriela Rosas (2), Delia Acuña (2), and Mario Rohrer (3)

(1) Zürich, Zürich, Switzerland (stefanie.gubler@meteoswiss.ch), (2) Servicio Nacional de Meteorología e Hidrología del Perú, SENAMHI, Lima, Peru, (3) Meteodat GmbH, Zurich, Switzerland

Climate services translate climate data into tailored information suited to meet the specific needs of various end user groups. Data quality issues can affect the quality of climate products developed at the Peruvian Meteorological and Hydrological Service SENAMHI. These shortcomings can be caused e.g. by data gaps, measurement errors, low station density and the absence of station history information for homogenization. The WMO Global Framework for Climate Services twinning project CLIMANDES (Servicios CLIMáticos con énfasis en los ANdes en apoyo a las DEcisioneS), a joint project of SENAMHI and the Federal Office of Meteorology and Climatology MeteoSwiss, aims at developing, providing, and disseminating high-quality climate services in two pilot regions in the Peruvian Andes.

Sustainability of the climate services (e.g., quality and timeliness) is assured through the implementation of a quality control scheme at SENAMHI, the initiation of a metadata acquisition and storage system, as well as the storage of quality controlled and homogenized data together with climate products (e.g., climate indicators) in a central database. The derived climate services are disseminated by an ‘on-the-fly’ updated webpage generated directly from the database. Specific workshops with users and decision makers in the pilot regions were held to communicate the services, their benefits as well as their limitations and uncertainties. Further, a communication network for the dissemination of the climate information to the local press and the local communities via radio is established. The challenges regarding data quality, assertion of sustainability, and the dissemination of climate services are presented here.