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The Climandes project made good progress in the last half a year. The national weather service SENAMHI Peru has taken a major role in training professionals in Ibero-America. SENAMHI conducted the well-attended First Data Management Workshop and seasonal forecast courses and established e-learning tools. As a result, the World Meteorological Organization *WMO* officially appointed SENAMHI as a second component of the Regional Training Centre Peru.

Farmers' trust in scientific weather and climate information improved in the pilot region Puno, thanks to the ongoing dialogue established within Climandes. Smallholders stated that they increasingly included these forecasts in their agricultural decision-making and experienced improved production. This participatory process reduced the gap between providers and users of climate services and can be appreciated as a proof-of-concept for the User Interface Platform *UIP* of the Global Framework for Climate Services *GFCS*.

Climandes now strives for the long-term continuation of project activities by bringing all developed products and tools to operation, upscaling the prototype service to a wider user community, and sharing lessons learnt and key experiences with other organizations, practitioners and interested individuals.

High-quality climate services to support farmers

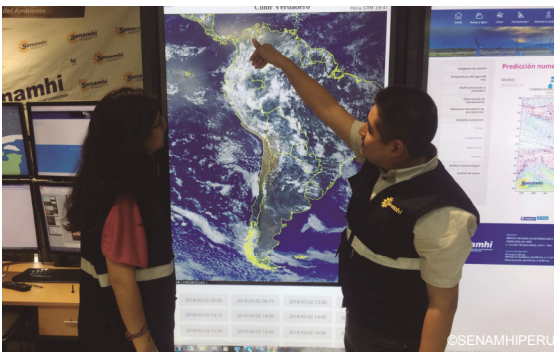


The Environmental Minister of Peru opened the **First Data Management Workshop** from 29.5.-1.6.2018 at SENAMHI. The workshop brought together about 150 participants from 15 countries. As climate services require systematic data management, the workshop focused on enhancing capacities in data rescue, homogenization and gridded data. Presentations are available on the [SENAMHI YouTube channel](#) and the press release (Spanish) on the website of the [Ministry of Environment MINAM of Peru](#).

We published [ClimIndVis](#), a package based on the open source statistic software R. ClimIndVis enables the automation of climate products from observations and seasonal forecast data. The package calculates, verifies and visualizes climate indices such as the beginning of the rainy season. Online courses support the introduction and review of the package and include participants from Ibero-America. The release of a revised version of the package is planned for late 2018 or early 2019.

In addition, on 4 September 2018 MeteoSwiss will co-convene a **session at the Annual Meeting of the European Meteorological Society EMS** in Budapest on [cooperation with weather and climate services](#). The advances in technical activities (e.g. verification, drought monitoring and development of a gridded temperature dataset) will be published in peer reviewed journals in 2018/2019.

Improved training for better climate services



The World Meteorological Organization *WMO* appointed SENAMHI as an additional part of the **Regional Training Centre RTC**, next to the National Agrarian University *UNALM*. This is the result of SENAMHI's extraordinary effort and success in capacity development activities for the Ibero-American region. Within Climandes SENAMHI has offered well-attended courses with international instructors on different topics like verification, reanalysis and seasonal forecasts to participants from the region.

In March/April the third online module of the **seasonal forecast course** started. 70 participants from 10 countries enhanced their knowhow on the application of climate information to the agricultural sector. The classroom course with selected participants from all countries will take place at the end of July. The former two courses focused on the synoptics of Ibero-America and the principles of seasonal forecasting.

A community-based approach to design user-driven climate services



Over the past vegetation period Climandes held a series of monthly **climate field workshops** in two agrarian communities in the Puno region. A team of meteorologists and agronomists from SENAMHI regional and national office, local non-governmental and governmental stakeholders conducted the workshops, which aimed at establishing a continuous dialogue and feedback mechanism with farmers. The workshops proved to be very successful, as they built trust in SENAMHI and a more positive perception of the accuracy of the information provided. Farmers reported furthermore that they increasingly included the provided information in their decision-making and in doing so, their production actually improved.

With the climate field workshops, the activities of the pilot GFCS User Interface Platform *UIP* have come to an end. Our two-stage approach consists of providing evidence on farmers' situation and needs and involves their participation in the subsequent interventions. Hence, the establishment of a UIP has proven to be a suitable vehicle to bridge the gap from the user community to the climate community.

MeteoSwiss is preparing an **online publication** in order to share our experiences with practitioners in the field of climate service initiatives in developing and emerging countries. The online publication will contain the project's approach, key findings and lessons learnt with a particular focus on user participation. We believe that our two-stage approach to develop a UIP is suitable for upscaling in other contexts and sectors.

We reported in the [March edition of the FAO SAVE Food newsletter](#) the project's direct support to Peruvian smallholder farmers, which gave rise to an agricultural research award. In the same month, we informed in the SDC DRR Newsletter how the project leads to ["improved preparedness to extreme weather events in Peru"](#). Climandes also reached out to the WMO community with two contributions: [Smallholders and Big Actors Co-producing Climate Services through the Climandes Project](#) (GFCS Newsletter, May 2018) and ["Farmers in Peru use climate data for risk management"](#) (MeteoWorld, June 2018).

In the final phase emphasis will be put on communicating key results of Climandes to a wide range of stakeholders. Also communication activities addressed to the general public will be intensified in order to raise awareness on the value of climate services and to showcase national contributions to global agendas for climate change adaptation.

www.meteoswiss.ch/climandes or www.senamhi.gob.pe/climandes

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Además



The screenshot shows the FAO website header with the logo and navigation menu. Below the header, there is a search bar and a navigation menu with options like 'Background', 'News and multimedia', 'Members', 'Projects and activities', 'Regional', 'Resources', 'Login', and 'Register'. The main content area features a news article titled "Boosting Climate Smart Agriculture in Andean Region - The Climandes Project" dated 21 Mar 2018. The article includes a photo of farmers in a field and a short text snippet. The text snippet reads: "Climandes - user-tailored climate services to support decision-making has, since 2012, supported agriculture-dependent households in Peru's Andean mountains to obtain access to much-needed climate information. A multi-stakeholder project carried out by the two national meteorological services, SENAMHI - Peru's Meteorology Agency, and MeteoSwiss, Climandes is being implemented under the Global Framework for Climate Services (GFCS) spearheaded by the World Meteorological Organization (WMO) and is funded by the Swiss Agency for Development and Cooperation (SDC)." The photo credit is "Photo credit: Enrique Castro-Mendivil / PromPerú". Below the photo, it says "Climandes assesses user-needs for climate services in agriculture, the primary source of income for populations in".

More information

Contact