

Improving climate services through capacity development

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MOTIVATION

Climandes, a twinning project between two weather services (Peru and Switzerland), aims at developing climate services for the agricultural sector in Peru. As a project of the Global Framework for Climate Services (GFCS), **capacity development** accompanies all technical activities in Climandes.

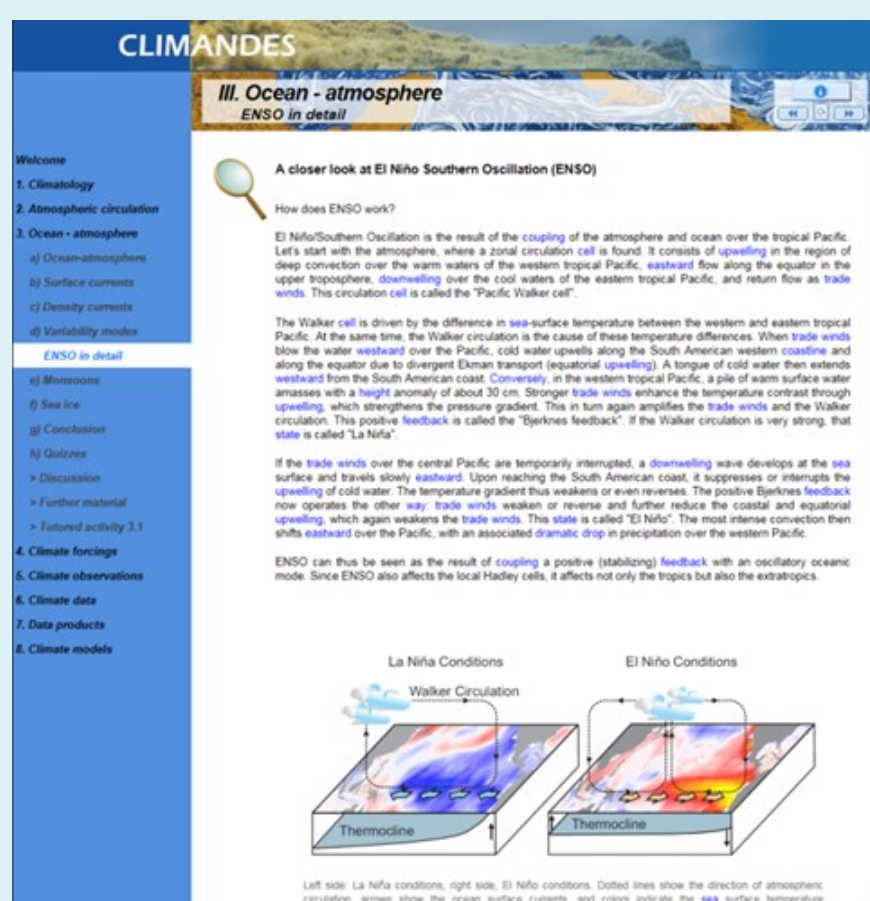
The main goals with regard to capacity building are:

1. Improving the **technical knowledge of professionals** of the weather services in the Andean region to improve their capabilities of producing reliable climate information
2. Fostering **communication between providers and end-users** of climate information to raise the awareness about weather and climate topics in the general public
3. Supporting the **Regional Training Center (RTC)** of WMO in Peru

ACHIEVEMENTS

- 1a) Introduction and implementation of tools for **online training** (e.g., Moodle, etc.)
- 1b) Realization of several specialized **blended training courses** for professionals and students from Latin America on climate related topics
- 1c) Improvement of training contents through **surveys**
- 1d) **Peer-to-peer training** of professionals at the NMHS
- 2a) Realization of workshops with school teachers and installation of weather stations for **educational purposes** in rural areas
- 2b) Development of **guidelines on meteorology** for primary and secondary school teachers
- 2c) **Monthly climate field workshops** in agricultural communities during growing season
- 3a) Development of an **e-learning strategy** for the RTC Peru
- 3b) Designation of SENAMHI as **second component of the RTC-Peru** by WMO
- 3c) **Scholarships** for foreign student at UNALM

Training activities to support the development of climate services in the Andean region



Development of online training material for the RTC-Peru



Conduction of blended courses for professionals and students from RA-III



Supporting students in scientific projects and the development of their thesis



Farmer fields schools to improve the understanding of end-users on climate information



Educational material developed to popularize meteorology and climatology in school

LESSONS LEARNT

- Training requires **time and commitment** of both the trainer and the trainees, e.g.:
 - Participation in & preparation of online courses besides day-to-day routine is challenging
 - Supervision of online courses requires dedication
- Diverse cultural and technical barriers may hinder the **learning effect** of online training, e.g.,
 - few experience of human interaction through the web, access to internet in remote areas,...
- Dissemination of the training activities requires **well-established communication networks** in the continent (e.g., through PRs, Global Campus, ...)
- **Missing confidence** in governmental institutions may hinder the collaboration with end-users in rural communities
- **Sustainability** of training results depends on the continuity of the trained staff

CONCLUSIONS

Training is essential to support the sustainability of the project results through the development of capacities at diverse levels.

The extensive approach chosen in Climandes has shown to be effective since it allows to address diverse target groups such as current as well as future providers and users of climate services. However, training requires time, commitment, and overcoming of diverse cultural and technical barriers that must be addressed.