

Chapter 6

Observations and Data

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Knowledge gaps and relevance

There are several sources of data (observational, produced by remote sensing or by reanalysis and modeling, and regional data set from specific regional program), which may be used for hydro-climatic research and applied studies in the Andes, but not all have the required spatial resolution. For having data in a finer spatial resolution, it may be used all the available data sets to generate a specific very high resolution (space (horizontal and vertical) and time) data set for the Andes.

Potential activities

To produce a very high resolution reanalysis for whole Andes region, on the basis of the available data set, new observation and measurements and modelling, following activities are proposed:

- To prepare an inventory of different sources of data
- Verification, standardization and validation of data
- To elaborate methodological proposal for producing specific for the Andes reanalysis
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Expected outcomes

A very high spatial resolution data on the main hydro-climatic variables for the Andes region