



I am a scientist with a very strong interest in glaciology, meteorology and climate. My current research focuses on Water Resources derived from snow and ice cover and its sensitivity to climate variations, especially in mountain regions. I have just completed a short term research project in that field applied to the Cordillera Blanca in the Peruvian Andes. Previously I have studied the potential effects of climate variability on the water resources of the Central Andes of Chile and Argentina, and in the Valais, in the Swiss Alps. In this last case we worked in cooperation with Hydroexploitation and the Grande Dixence.

PUBLICACIONES SELECCIONADAS "Surface Energy Balance of High Altitude Glaciers in the Central Andes: the Effect of Snow Penitentes".

Corripio, J. G. and Purves, R. S.: 2004. 51(55), 91-96. Climate and Hydrology in Mountain Areas, Wiley & Sons, London. chapter 3, pp. 15–27.

Modeling climate-change impacts on mountain glaciers and water resources in the Central Dry Andes, in B. Orlove, E. Wiegandt and B. Luckman (eds)

Corripio, J. G., Purves, R. S. and Rivera, A.: 2007. Darkening Peaks: Glacier Retreat, Science, and Society, University of California Press, Berkeley, pp. 126–135.

Monitoring ice capped active Volcán Villarrica in Southern Chile by means of terrestrial photography combined with automatic weather stations and GPS

Rivera, A., Corripio, J. G., Brock, B., Clavero, J. and Wendt, J.: 2008. Journal of Glaciology. 54(88), 920-930.

Mass-balance estimates for Haut Glacier d'Arolla, Switzerland, from 2000 to 2006 using DEMs and distributed mass-balance modeling

Dadic, R., Corripio, J. G. and Burlando, P.: 2008. Annals of Glaciology 49, 22–26.

A study of the energy balance and melt regime on juncal norte glacier, semi-arid andes of central Chile, using melt models of different complexity,

Pellicciotti, F., Helbing, J., Rivera, A., Favier, V., Corripio, J., Araos, J., Sicart, J.-E. and Carenzo, Hydrological Processes. 22(19): 3980

Improvement of a numerical snow drift model and field validation.

Durand, Y., Guyomarc'h, G., Mérindol, L., Corripio, J.G. 2005. Cold Regions Science and Technology 43 (2005) 93– 103.

Snow surface albedo estimation using terrestrial photography

Corripio, J. G.: 2004. Journal of Remote Sensing . 25(24), 5705–5729.

Landbased remote sensing of snow for the validation of a snow transport model

Corripio, J. G., Durand, Y., Guyomarc'h, G., Mérindol, L., Lecorps, D. and Puglièse, P: 2004. Cold Region Science and Technology. 39(2-3), 93–104.

2D numerical modelling of surface wind velocity and associated snowdrift effects over complex mountainous orography

Durand, Y., Guyomarc'h, G., Mérindol, L. and Corripio, J. G.: 2004. Annals of Glaciology, 38, 59-70.

Spatial and temporal variability of meteorological variables at Haut Glacier d'Arolla (Switzerland) during the ablation season 2001: Measurements and simulations

Strasser, U., Corripio, J., Pellicciotti, F., Burlando, P., Brock, B. and Funk, M.: 2004. Journal of Geophysical Research-Atmospheres 109(D3), D03103.

Vectorial algebra algorithms for calculating terrain parameters from DEMs and the position of the sun for solar radiation modelling in mountainous terrain

Corripio, J. G.: 2003. International Journal of Geographical Information Science 17(1), 1–23.

PhD thesis. University of Edinburgh, 2003

Corripio, J. G.: 2003. Modelling the energy balance of high altitude glacierised basins in the Central Andes.

CONTACTO    Teléfono : +56-63-2234535    Fax : +56-63-2234517