Principal Expeditions and Publications Poli-High Group

1) Principal expeditions and campaigns

We have carried out a number of scientific field campaigns, in Europe, South America, Karakoram, Himalaya, among others, as follows.


3) Summer 2009-2015. In situ runoff investigation of Dosde the glacier (Arnoga, Valtellina, Italy), and installation of a depth gage for continuous monitoring of discharge since summer 2009.

4) Iro-Stelvio (July 2010 - now). Deployment of eleven hydrometric gauges in Stelvio Park of Italy, maintenance, and hydrological data assessment.

5) July 2011-now. Monitoring high altitude flow discharges from Indren glacier, Gressoney (AO).


2) Publications list

Full list of Publication (Daniele Bocchiola) reported, including a number of publications in the field of cryospheric sciences, as follows, with specific focus on POLI HIGH mission.

i) Books, chapters, reports


ii) Refereed Journals. Last Journal IF reported where suitable. H-index: 16 (ISI), 16 (SCOPUS). ISI and SCOPUS data bases reported where suitable.


5) Bocchiola, D., Rosso, R., Real time flood forecasting at dams: a case study in Italy. Int. Jrn. on Hydropower and Dams, 13 (1), 92-99, 2006. SCOPUS


8) Bocchiola, D., Medagliani, M., Rosso, R., Regional snow depth frequency curves for avalanche hazard mapping in central Italian Alps, Cold Regions Science and Technology, 46, 3, 204-221, 2006. IF 2009: 1.264, ISI, SCOPUS


Groppelli, B., Bocchiola, D., Rosso, R. Precipitation downscaling using random cascades: a case study in Italy, Advances in Geosciences, 8, 1-6, 2010, SCOPUS.

Bocchiola, D., Rosso, R., Spatial estimation of Snow Water Equivalent at different dates within the Adamello Park of Italy, Cold Regions Science and Technology, 63(3), 97-109, 2010. IF 2009: 1.264, ISI, SCOPUS

Bocchiola, D., Maragno, D., Moriondo, M., Smiraglia, C., Rosso, R., Regional snow depth estimates for avalanche calculations using a 2D model with snow entrainment, Ann. Glaciol., 49, 63-70, 2008. IF 2005: 0.802, ISI, SCOPUS


Simaityte, J., Bocchiola, D., Gorni, E., Marty, C., Sovilla, B., Regional evaluation of three day snow depth frequency curves for Switzerland, NHESS, 8, 685-705, 2008. IF 2009: 1.345, ISI, SCOPUS


Groppelli, B., Bocchiola, D., Rosso, R. Precipitation downscaling using random cascades: a case study in Italy, Advances in Geosciences, 8, 1-6, 2010. SCOPUS.


41) Nana, E., Corbari, C., Bocchiola, D., A model for crop yield and water footprint assessment: study of maize in the Po valley, AGSYS, 127, 139-149, 2014. 5 year IF: 3.28. ISI, SCOPUS


ii) Papers on Italian journals with review.


3) Bocchiola, D., Rosso, R., An introduction to flood proofing techniques, Il progetto sostenibile, 9, 2006, In Italian with abstract in English.


12) Rosso, R., Bocchiola, D., Groppelli, B., Affidabilità degli scenari pluviali e criteri di downscaling per le applicazioni idrologiche dei modelli climatici di circolazione globale, [Accuracy of rainfall scenarios and downscaling criteria for hydrological applications of Global Circulation Models], Resume, Nimbus, 59-60, 7-9, 2011.


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