

¹Departamento de Física de la Tierra y Astrofísica, Universidad Complutense de Madrid, Spain; ²Departamento de Física Aplicada, Facultad de Ciencias del Mar y Ambientales, INMAR, CEIMAR, Universidad de Cádiz, Puerto Real, Spain; ³Instituto de Geociencias (CSIC-UCM), Universidad Complutense de Madrid, Madrid, Spain; ⁴Laboratorie d'Aérologie, CNRS, Université de Toulouse, 31400 Toulouse, France; ⁵NorthWest Research Associates, Boulder, Colorado, United States of America

- within a Valley in the Pyrenees.
- downvalley flow and associated interactions.







v1 At the shallower part of the valley

Observational Study of Valley Breezes in Heterogeneous Terrain: Vertical and horizontal characterization in the Aure Valley (Pyrenees)

Pablo Ortiz-Corral¹, Carlos Román-Cascón², Carlos Yagüe¹, Juan Alberto Jiménez-Rincón², Mariano Sastre¹, Cristina Vegas-Cañas³, Mathilde Jomé⁴, Fabienne Lohou⁴, Marie Lothon⁴, and Jielun Sun⁵

> Analysis of the interaction between jet-driven and surface-driven turbulence * Can we separate the dynamical and the thermal contributions to total turbulence? Long-term statistical analysis (1-year data)

ion : (m)	Inversion magnitude (°C)	Mixing layer (m)
	2,9	136
	2,6	52
	0,92	143
	4,7	92
	3,9	182
	4,9	262
	7,3	228
	0,4	431

Work in progress is shown with a * symbol

- - insuficient resolution \rightarrow can WRF (1 km or less) model provide better results?



