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Global warm meters upwa posted on: april 25, for share / Sa Researchers at the altitudes. The sta summits of 17 Eur In the Iberian Pec Nevada (Granada 2.7 m upwards. "T to migrate upwart to higher altitude medium term" the	ing has driven Europhic for the second secon	Me gu mada Department of that global warming is o ted in <i>Science</i> – analyz 2001 and 2008. gions were selected in that the species under e hypothesis that a rise i becies are threatened by e a threat to high-mou	Botanic have participation and plants to migrate bottom and the participation of the provided and the provid	te 2.7 pated in an ate to higher shifts in 66 a) and Sierra n average of s Alpine flora re migrating the long and	•• MUTUAN contráta	MADRILEÑA ** alo ya	
The study also reveals an average increase of 8% in the number of species growing in summits of European mountains. However, such increase is not general, as of the 66 peaks in boreal and					Similar Articles On This Topic: Topography of mountains complicate 		

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Source: University of Granada

environment: the Mediterranean region.

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temperate areas, the majority revealed an increase in species diversity, while 8 out of the 14 summits in the Mediterranean area revealed a decline in the number of species represented.

Furthermore, the study revealed that species diversity has changed more significantly at low

elevation sites -at the upper limit of the forest or an equivalent altitude- in the Mediterranean

In Mediterranean mountains (Sierra Nevada, Corsica, Central Apennines and Crete), the rise in temperatures is causing a decline in annual average rainfall, which results in longer summer

The mountains that present the most significant shifts in species diversity are Mediterranean mountains –located in Southern Europe–, where climate is different to that of the rest of Europe. In general, moist-soil species are more vulnerable to climate change, though high-mountain endemic

species are also affected."For example, in Sierra Nevada, the observation plots revealed a decrease in the number of emblematic species such as *Androsacevitalianasubsp. Nevadensis* and *Plantagonivalisy Artemisia granatensis*", the University of Granada professor, Joaquín Molero

Sierra Nevada has very special characteristics, as it is the only mountain range in the Iberian

Peninsula that has Mediterranean climate from top to the hill foot. Consequently, the research group coordinated by professor Molero Mesa –with the special collaboration of M^a Rosa

Fernández Calzado- placed another sampling site (four summits located at an elevation above

2500m high) in 2005. The purpose was to increase the sample size and obtain more reliable

results. In two years, a comparative study of the results obtained in the first and second study will

Thus, Sierra Nevada is the only mountain range with two target regions under observation. The

research group is coordinated with the Observatorio de Cambio Global de Sierra Nevada, and has established –in collaboration with a research group from Morocco– another target region in the high Western Atlas, where observation plots and thermometers will be installed next summer. The purpose of this action is to better understand climate and species variations in the most vulnerable

droughts. Consequently, temperature rise and droughts pose a threat to unique endemic species.