

Submitted Abstract

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Abstract

While conservation ecology was highlighted by the creation of the IUCN redlist in the 1960s, it was in the 1990s that conservationists and economists decided to integrate the services provided by nature to humans to increase motivations to conserve our environment, later renamed Nature's contributions to people (NCP). Yet, conservation planning has been largely focused so far on landscape units (e.g. landuse, landcover, specific habitats) for their valuations rather than looking at the species composing them. Here, we wanted to fill this gap by assessing how much we could highlight the relationship between Biodiversity - here species - and NCPs. With this prospect, we used literature and expert knowledge to build an innovative contingency table between more of two thousand species (1818 tracheophytes' species and 250 vertebrates observed into our study area Rechalp) and up to 17 NCPs (17 NCPs for tracheophytes and 9 NCPs for vertebrates' species), this way offering a key tool to express direct and indirect linkages between species and NCPs. Based on that, we can predict and map NCPs from species and this way fuel conservation planning with crucially missing ecological information.