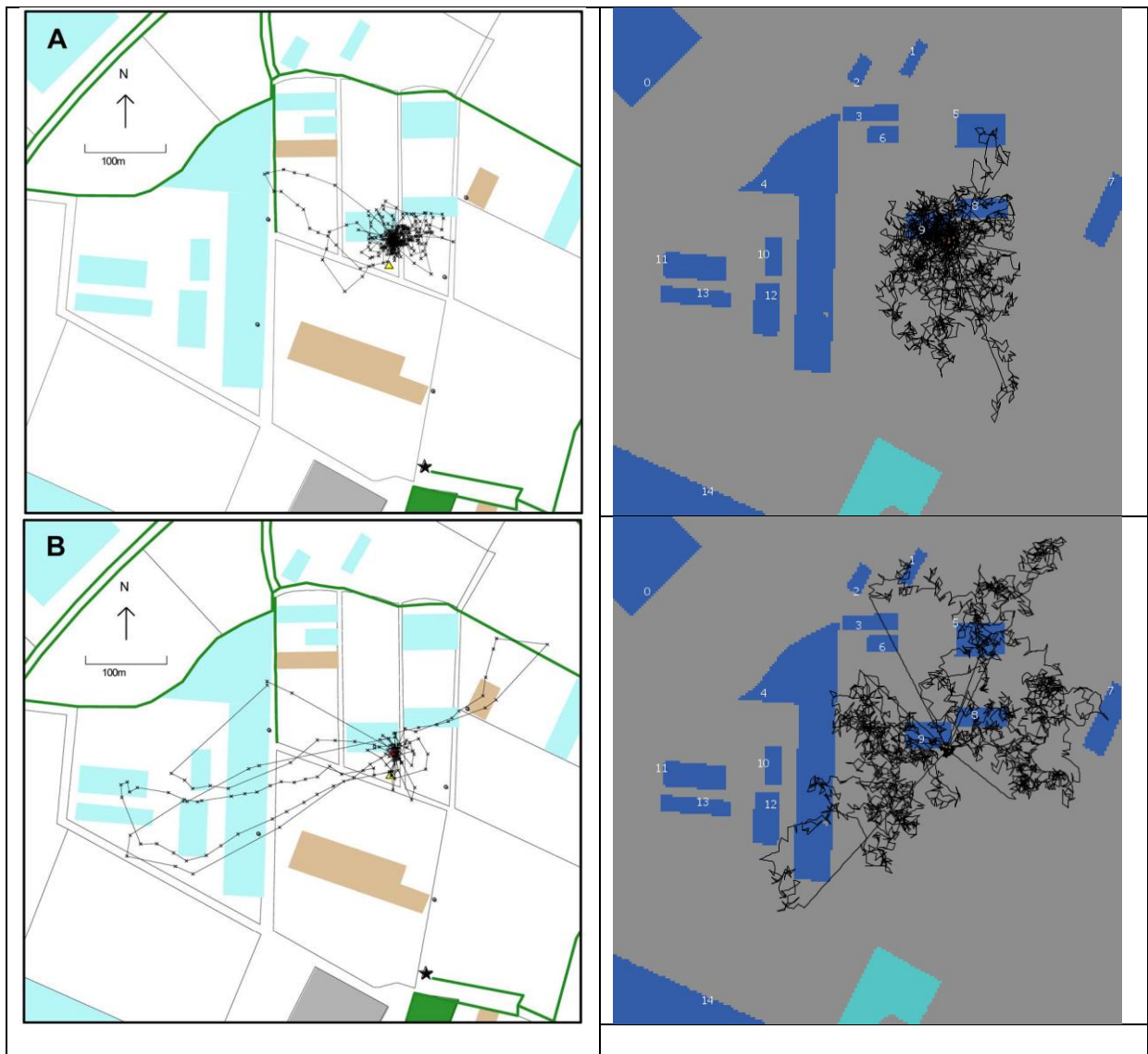


Comparison empirical and modelled bumblebee flight paths



Empirical (left, from Osborne et al. 2013) and an example of modelled (right) tracks of bumble bees ($N_{\text{Simulations}} = 1$). A) Bees on their first scouting trip ($n = 14$), B) bees on 2nd and 3rd trips (modelled: only 3rd trip)($n = 6$). Experimental bees were more directed in their flights – likely as some of them began to forage and stopped searching- whilst the model shows continued searching behaviour – but the flight ranges of modelled and empirical data match well.