



Figure S1. Current estimated distribution of Dupont's lark in the Maghreb (shaded areas) derived from Birdlife International data zone (<http://datazone.birdlife.org/species/requestdis>). Distribution within Tunisia was estimated taking into account data presented in this paper (mentioned as Suarez et al. *in lit*).

Table S1. Number of broadcasting trials in different habitat types of Tunisia (most common species in the patch). Dupont's larks were detected exclusively in alfa grass. In Morocco, 85,2% of detections occurred in pure or mixed patches of alfa grass, 9,5% in *Noaea spp.* and 5,3% in *Artemisia spp.* [7]

| Most common species | Total |
|--------------------------------|------------|
| <i>Lygeum sparteum</i> | 2 |
| <i>Artemisia spp.</i> | 8 |
| <i>Astragalus armatus</i> | 4 |
| Alfa grass | 68 |
| <i>Gymnospermum spp.</i> | 7 |
| <i>Hammada scoparia</i> | 24 |
| <i>Salsola spp./Sueda spp.</i> | 10 |
| Total | 123 |