

Electronic supplementary material

Colonisation in social species: the importance of breeding experience for dispersal in overcoming information barriers

Payo-Payo, A.; Genovart, M.; Sanz-Aguilar, A.; Greño, J.; García-Tarasón, M; Bertolero, A.; Piccardo, J.; Oro, D.

Electronic supplementary material S1:

Video 1: Temporal evolution of Audouin's gull breeding colonies along the western Mediterranean coast at regular time intervals between 1983 and 2014. Circle size is proportional to the number of colonizers in the year of colony foundation; anchors indicate colonies settled in port areas (See Table 1 for colony details). Maps were built in R-Software ³⁸



Video_colonisation_in_social_species.mp4

Electronic supplementary material S2:

Table 2. Table summarizing the model selection for previous year breeding status of Audouin's gulls breeding in the Western Mediterranean coast. COL_t: colony in time t (source/new); CST, constant; BS_{t-1}, previous season breeding status; DEV, deviance; AICc: corrected Akaike's information criterion; ΔAICc: AICc difference with the best model.

	Model	Deviance	AICc	ΔAICc
COL _t	CST		117	0
COL _t	BS _{t-1}	-0.725	118.2	1.2

Table 3. Table summarizing the model selection for previous year breeding performance of Audouin's gulls breeding in the Western Mediterranean coast. V_{t-1} , egg volume, CS_{t-1} , clutch size; LD_{t-1} laying date; CST, constant, COLONY, source or new colony; DEV, deviance; AICc: corrected Akaike's information criterion; $\Delta AICc$: AICc difference with the best model.*Includes nest as a random effect.

	Model	Deviance	AICc	$\Delta AICc$
V_{t-1}	CST*	252	258	2
V_{t-1}	COLONY*	250	256	0
CS_{t-1}	CST	30	123	0
CS_{t-1}	COLONY	30	125	2
LD_{t-1}	CST	1506	212	0
LD_{t-1}	COLONY	1478	214	2