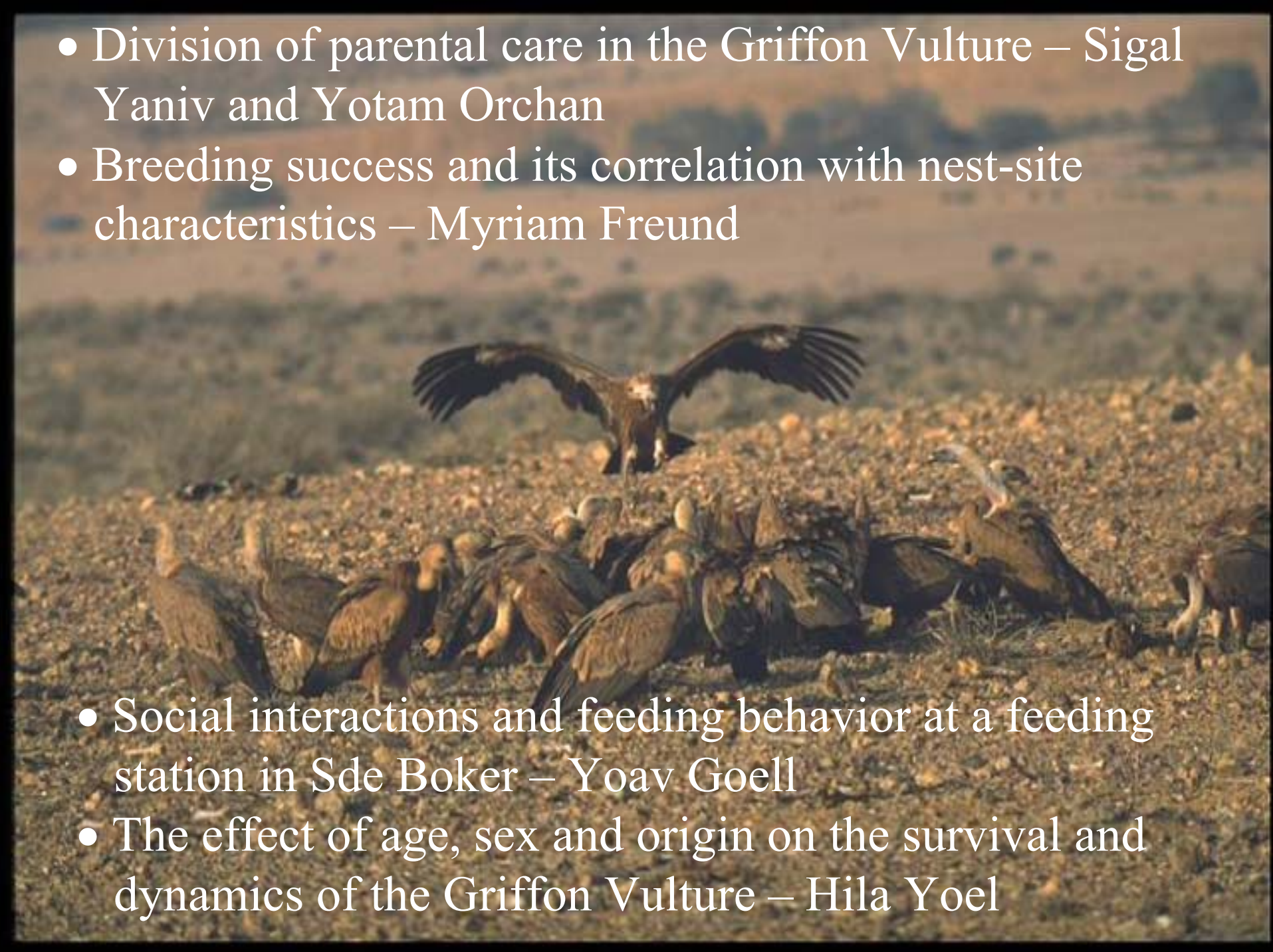


# Studies on the Griffon Vulture (*Gyps fulvus*) in Israel

Myriam Freund, Yoav Goell, Yotam Orchan,  
Sigal Yaniv, Hila Yoel, Ofer Bahat and Uzi Motro



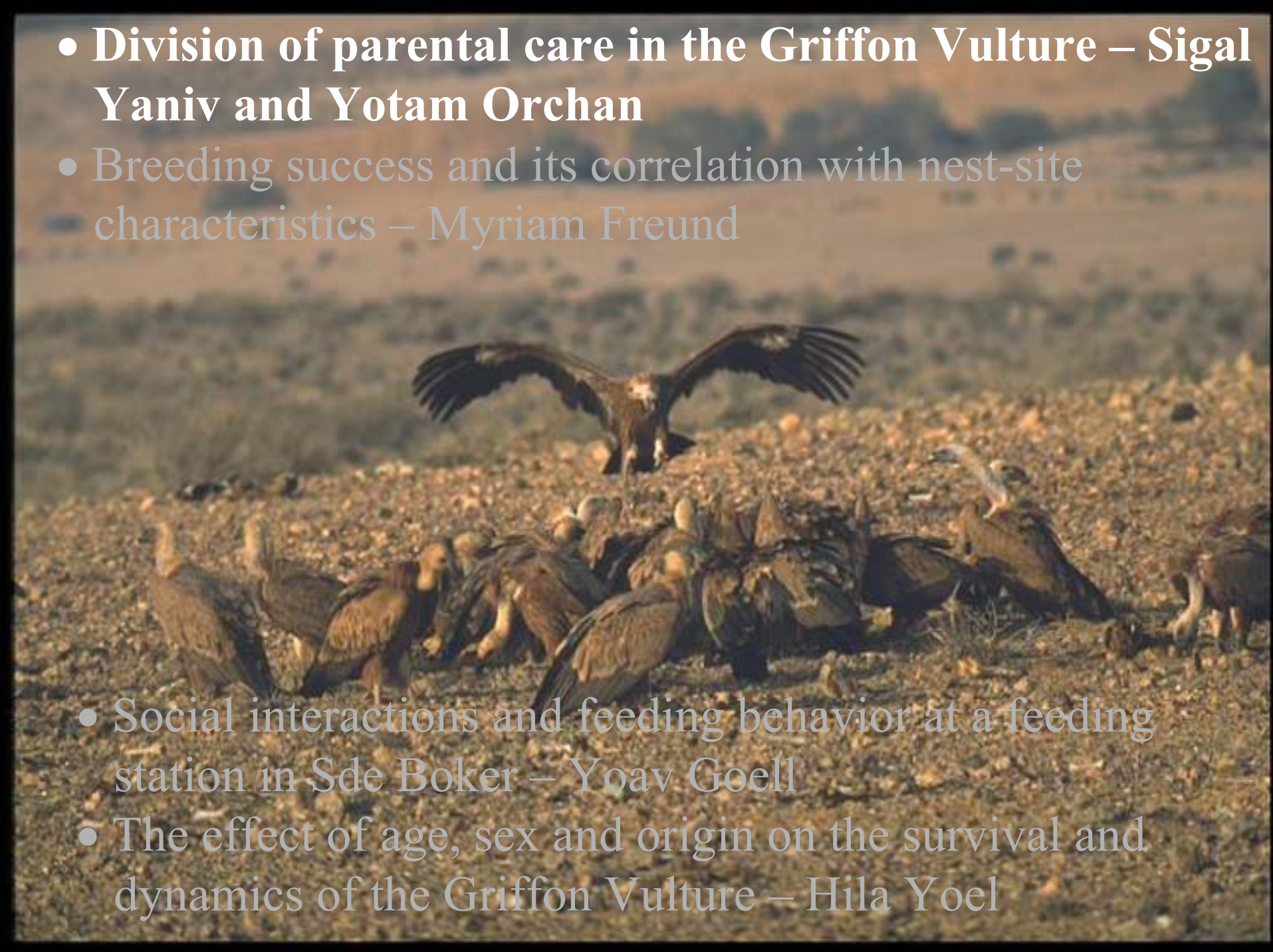
- Division of parental care in the Griffon Vulture – Sigal Yaniv and Yotam Orchan
- Breeding success and its correlation with nest-site characteristics – Myriam Freund

- 
- Social interactions and feeding behavior at a feeding station in Sde Boker – Yoav Goell
  - The effect of age, sex and origin on the survival and dynamics of the Griffon Vulture – Hila Yoel

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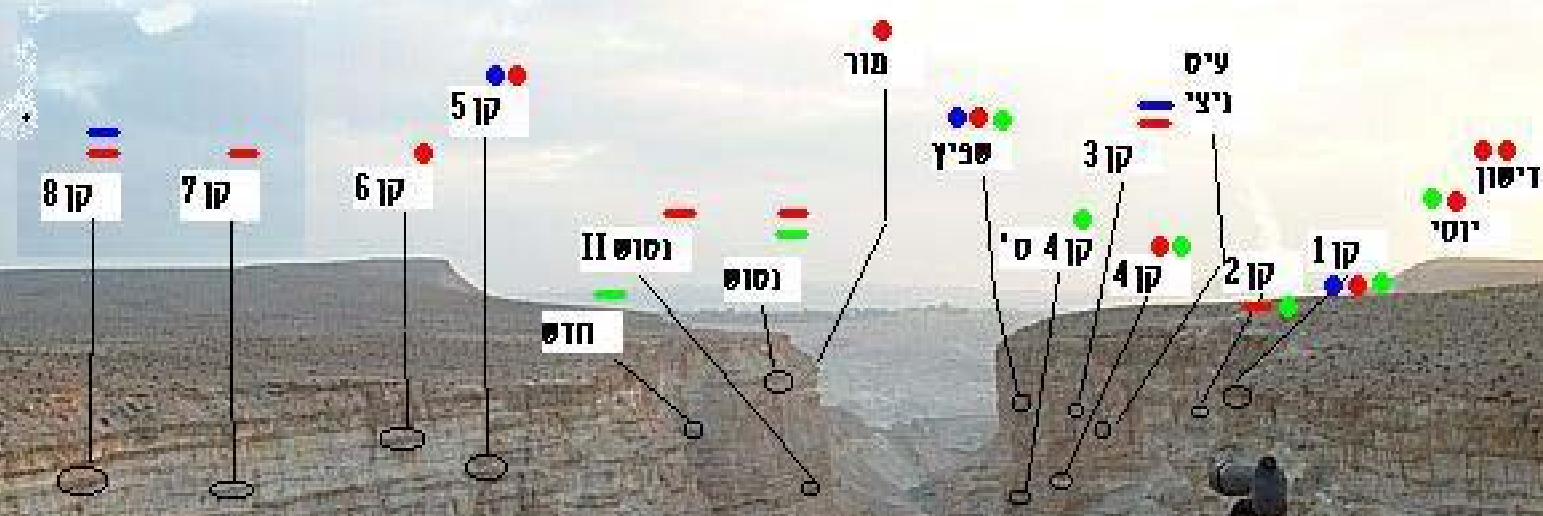
- Social interactions and feeding behavior at a feeding station in Sde Boker – Yoav Goell
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# The Canyon of Ein Avdat

מקרא:

- שנת 2000 ירוק
- שנת 2001 אדום
- שנת 2002 כחול
- הצלחת קיטון
- כיסלון קיטון



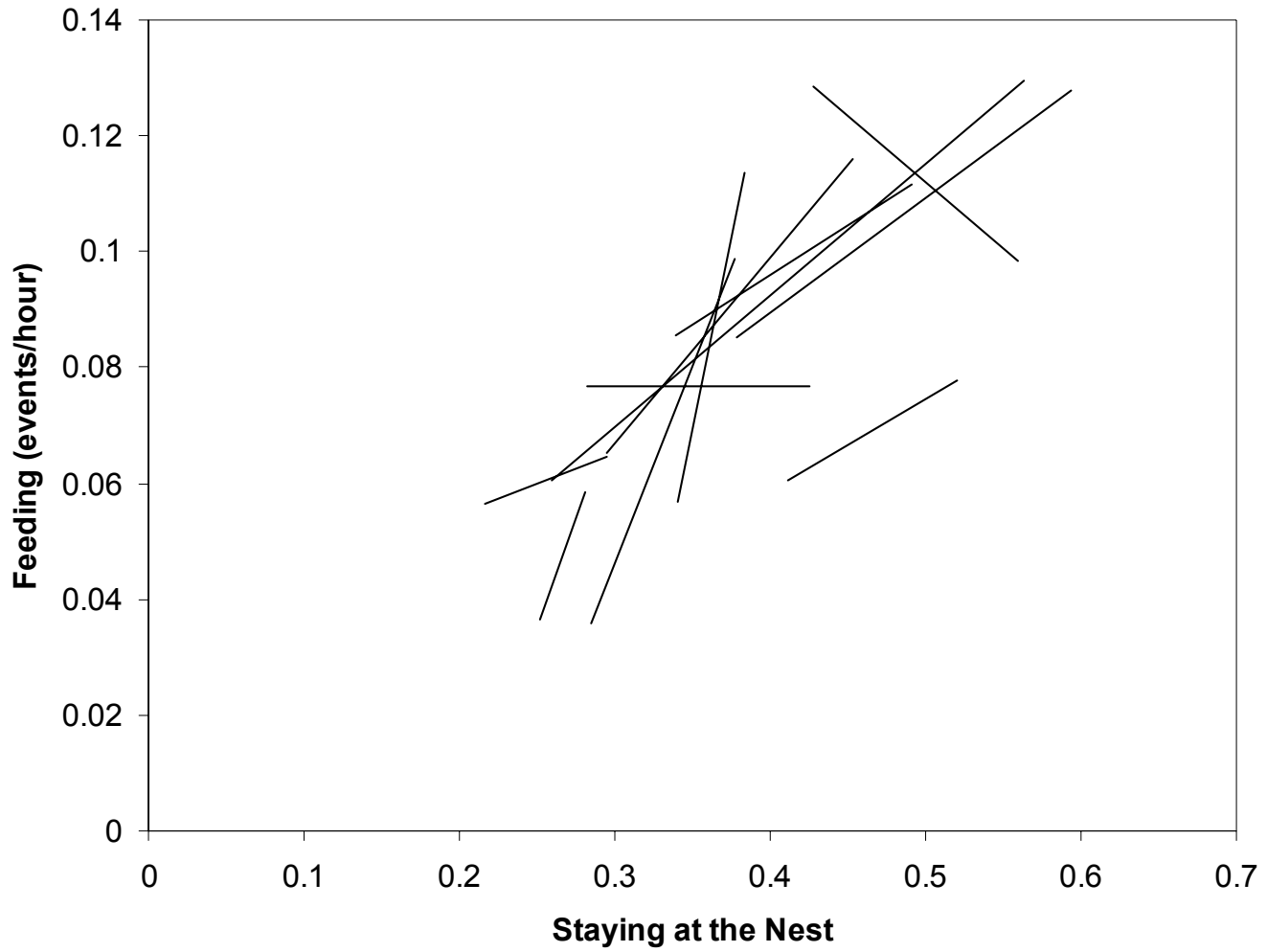
קו 9

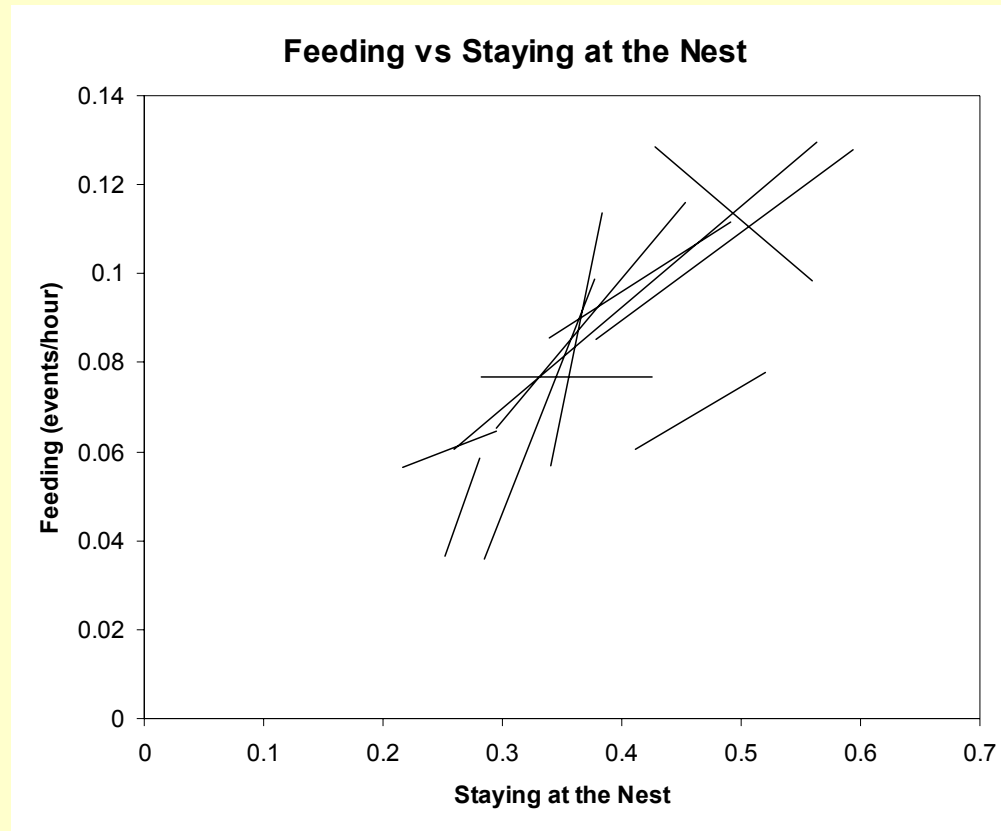
6/1/2002 5:50am

# Individual Identification



# Feeding vs Staying at the Nest





Only in 9 (of the 11 observed nests) we could identify the sexes.

- In all these 9 nests, the male stayed in the nest more than the female ( $P < 0.001$ ).
- In 7 of these 9 nests, the male brought food more times than the female ( $P < 0.003$ ).

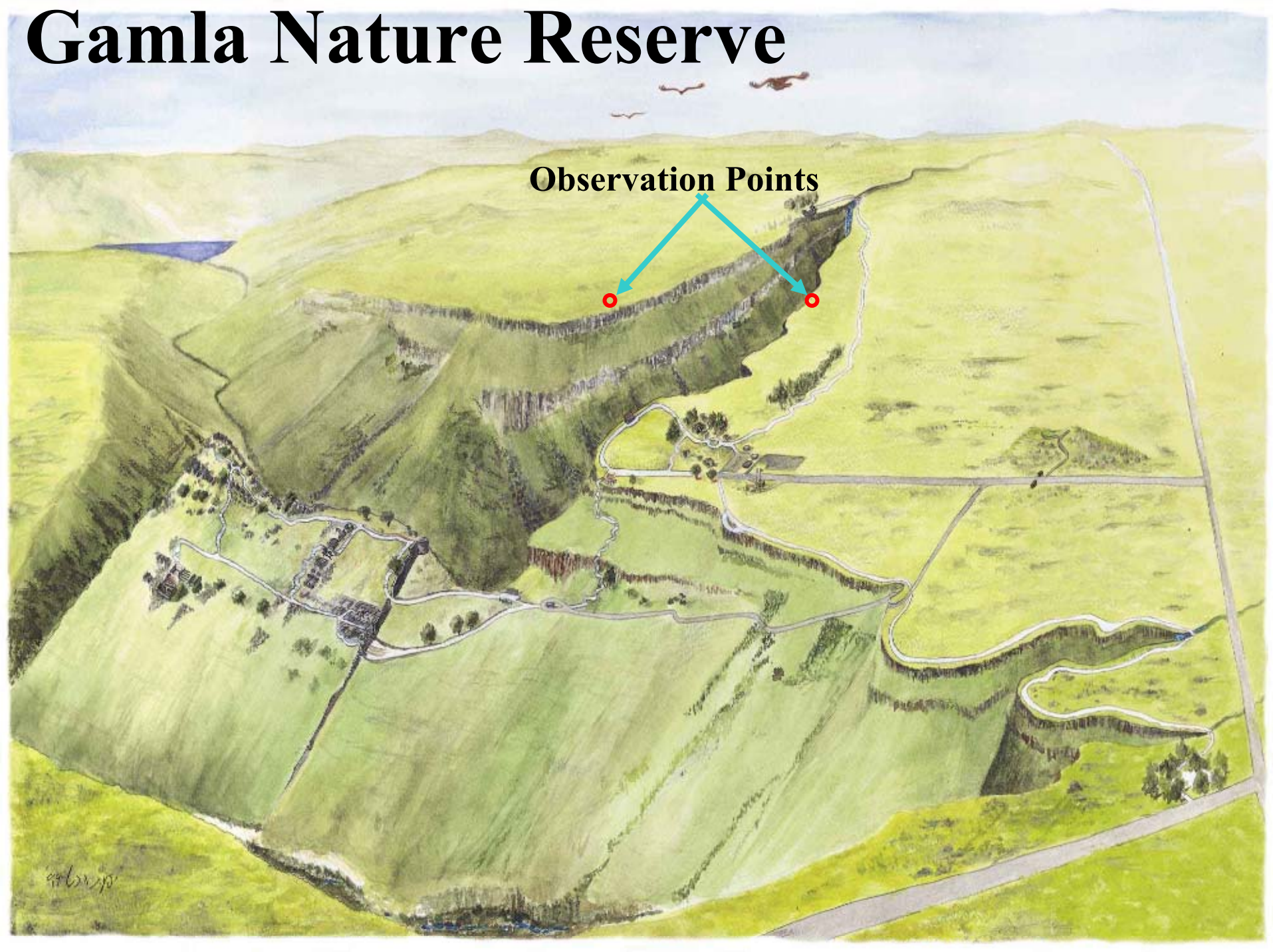
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# Gamla Nature Reserve

Observation Points



9/15/10

92 potential nest-sites ( that is, niches in which at least once, during the period 1998-2002, an egg laying event was recorded).

The mean number of nesting events is  $0.5022 \pm 0.0286$  per niche, per year (mean $\pm$ SE).

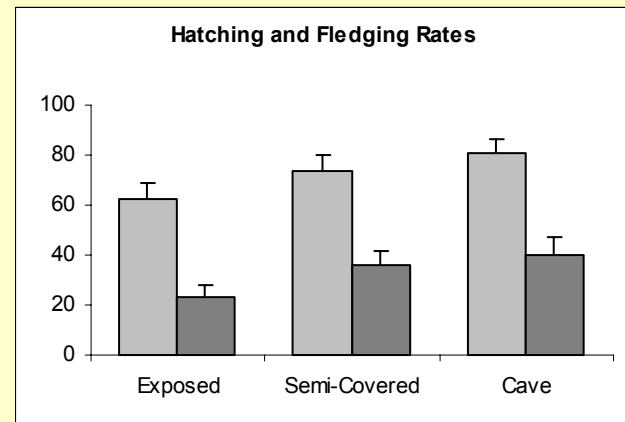
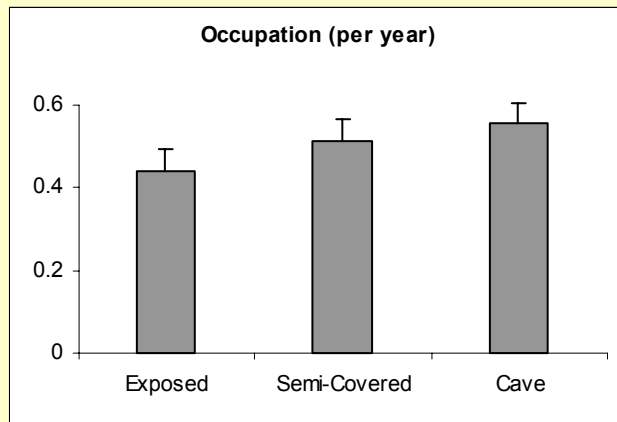
The mean hatching rate is  $72.73 \pm 3.65$  percent, and the mean fledging rate is only  $33.77 \pm 3.62$  percent.

More successful nest-sites were occupied more often (Spearman's rank correlation  $r=0.2627$ ,  $P<0.01$ ).

Popular niches are inhabited earlier ( $P=0.04$ ).

Nests which succeeded in fledging their young were occupied earlier on that year than nests which failed (Wilcoxon's two-sample rank-sum test,  $P<0.01$ ).

	<i>n</i>	Frequency of Occupation (per niche per year)	Mean Hatching Rate (%)	Mean Fledging Rate (%)
Exposed	29	0.4414±0.0510	62.50±6.43	23.44±3.25
Covered	61	0.5377±0.0348	77.44±4.38	38.41±4.68
		$t_{88} = 1.5649$ $P = 0.06$	$t_{55} = 1.9198$ $P = 0.03$	$t_{81} = 2.3686$ $P = 0.01$

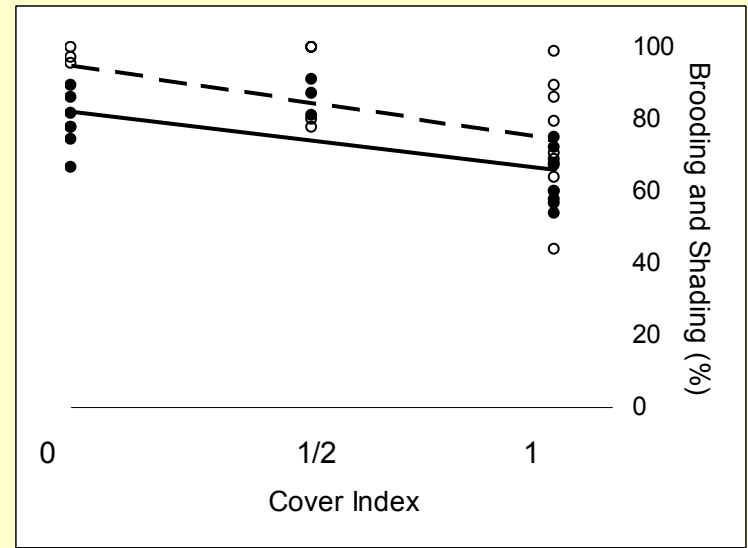
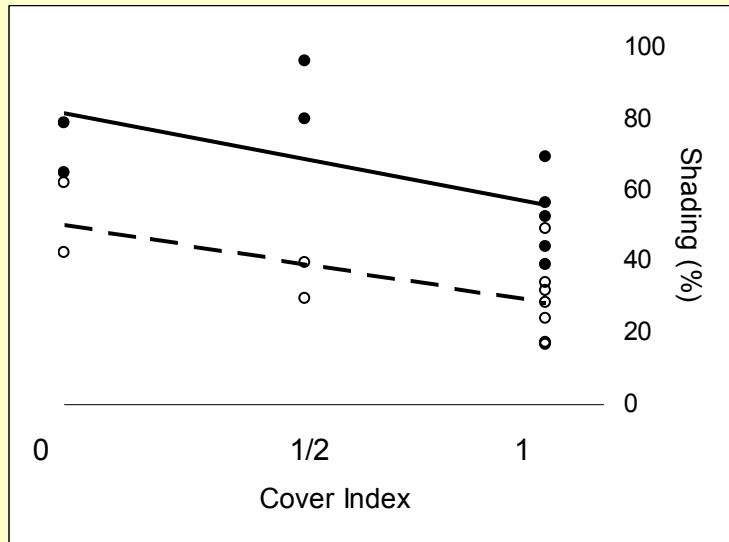
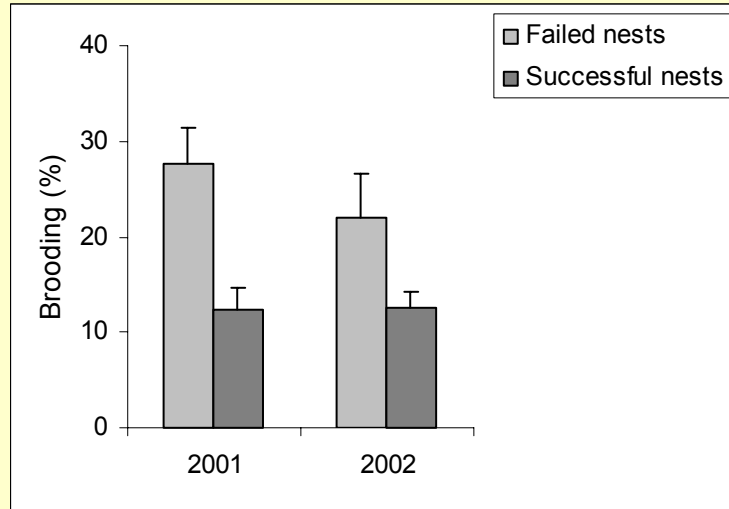


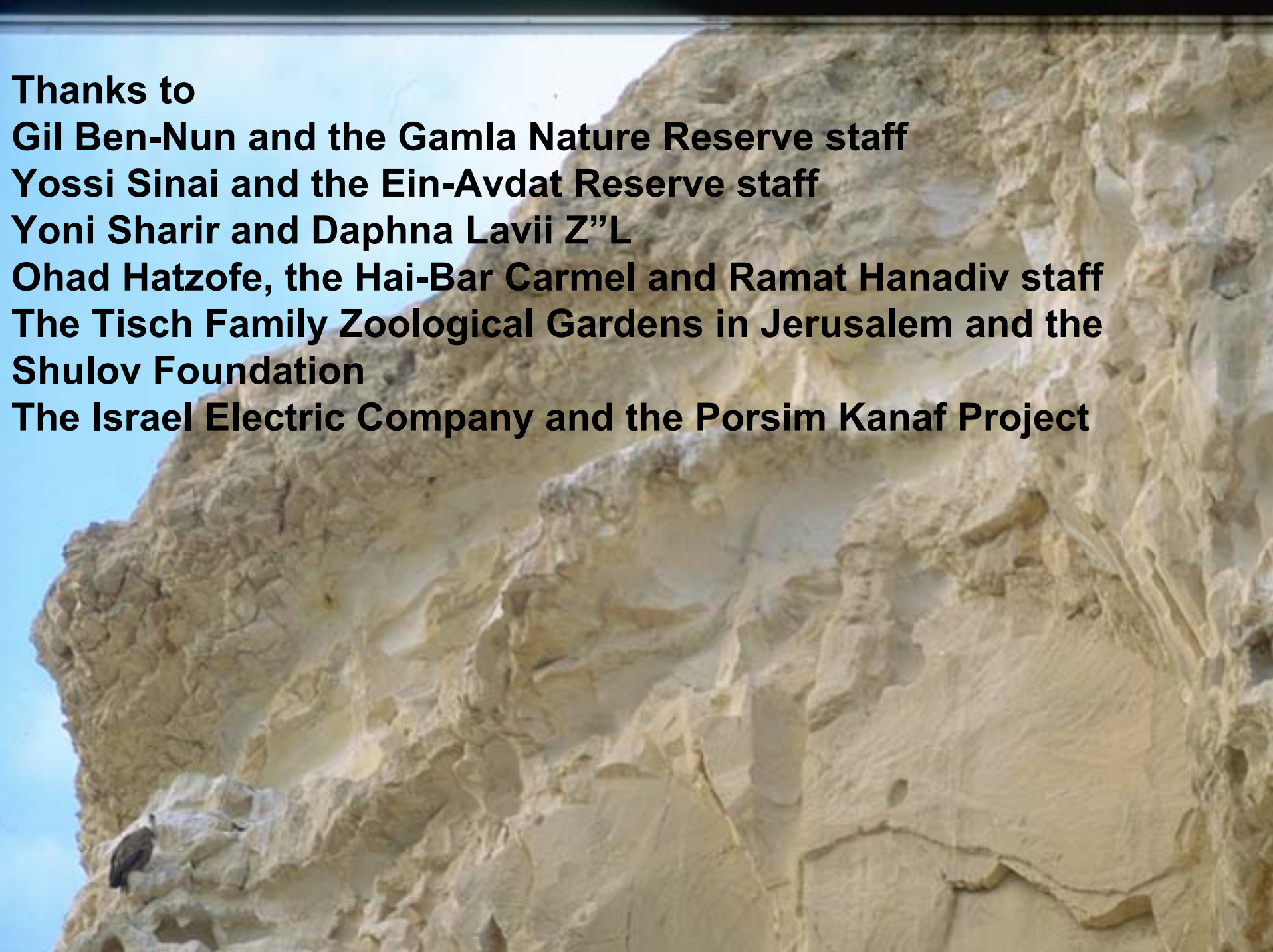
	<i>n</i>	Frequency of Occupation (per niche per year)	Mean Hatching Rate (%)	Mean Fledging Rate (%)
Southeast	25	0.4560±0.0409	61.40±8.22	24.56±5.86
West	67	0.5194±0.0361	75.86±4.07	36.78±4.37
		$t_{62} = 1.1628$ $P = 0.12$	$t_{36} = 1.5758$ $P = 0.06$	$t_{52} = 1.6715$ $P = 0.05$

The more exposed southeast facing cliff is occupied earlier than the west facing cliffs.

A possible explanation to this puzzling observation is the proximity of several nest-sites of the west facing cliff to a heavily used rim trail.

# Parental Care



A photograph of a rocky cliff face, likely made of limestone or a similar sedimentary rock. The rock is light-colored and has a textured, layered appearance. In the lower-left corner, a small bird is perched on a ledge. The sky is visible in the upper-left corner, showing a clear blue color.

**Thanks to  
Gil Ben-Nun and the Gamla Nature Reserve staff  
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