

Buechley, E. R., Opper, S., Beatty, W. S., Nikolov, S. C., Dobrev, V., Arkumarev, V., Saravia, V., Bougain, C., Bounas, A.8, Kret, E., Skartsi, T., Aktay, L., Aghababyan, K., Frehner, E. and Şekercioğlu, Ç. H. 2018. Identifying critical migratory bottlenecks and high-use areas for an endangered migratory soaring bird across three continents. – J. Avian Biol. doi: 10.1111/jav.01629

Supplementary material

Appendix 2. Top 25 protected areas (PAs) and Important Bird Areas (IBAs) as identified by: a) relative time spent by all Egyptian Vultures within each site (utilization), and b) proportion of all migration paths that crossed each site (paths). “Rel-Imp” is the relative importance of each site in relation to the top site. “%” (in b) indicates the percentage of all migration paths that intersected each IBA and PA.

b) Paths						
Country	Name	Type	Status	%	Rel-Imp	Rank
Saudi Arabia	Al-Habrow al-Arabi	IBA	confirmed	29%	1.00	1
Egypt	Suez	IBA	confirmed	27%	0.93	2
Yemen	Bab al-Mandab - Mawza	IBA	confirmed	26%	0.89	3
Yemen	Wadi Mawr - Al-Zuhrah	IBA	confirmed	25%	0.85	4
Yemen	Mafraq al-Mukha	IBA	confirmed	24%	0.81	5
Yemen	Al-Kadan area	IBA	confirmed	24%	0.81	5
Saudi Arabia	Khawr Wahlan	IBA	confirmed	24%	0.81	5
Turkey	Amanos Mountains	IBA	confirmed	23%	0.78	8
Egypt	Ain Sukhna	IBA	confirmed	23%	0.78	8
Yemen	Al-Mukha - Al-Khawkhah	IBA	confirmed	23%	0.78	8
Yemen	Al-Fazzah	IBA	confirmed	18%	0.63	11
Djibouti	Kadda Guni - Doumira	IBA	confirmed	17%	0.59	12
Saudi Arabia	Malaki dam	IBA	confirmed	17%	0.59	12
Egypt	Shaieb El-Banat	PA	Proposed	16%	0.56	14
Saudi Arabia	Wadi Jawwah	IBA	confirmed	16%	0.56	14
Yemen	Al-'Urj	IBA	confirmed	16%	0.56	14
Yemen	Hiswat al-Hugayma	IBA	confirmed	15%	0.52	15
Egypt	Wadi El-Gemal - Hamata	PA	Designated	15%	0.52	15
Jordan	Rajel	PA	Proposed	15%	0.52	15
Djibouti	Sept Freres Islands, Ras Syan, Khor Angar, and Godoria Forest	PA	Proposed	15%	0.52	15
Yemen	Al-Murah	IBA	confirmed	15%	0.52	15
Saudi Arabia	Taif escarpment	IBA	confirmed	15%	0.52	15
Jordan	Azraq	IBA	confirmed	15%	0.52	15
Jordan	Qa' Khanna	IBA	confirmed	15%	0.52	15
Djibouti	Les Sept Freres	IBA	confirmed	15%	0.52	15

Appendix 3. Mean and range of dates that Egyptian Vultures passed through each of five major migratory bottlenecks in spring and autumn, and the number of migration paths (n) passing through by site and season. To identify the timing of migrations, we reviewed telemetry locations for each complete individual migration trajectory and identified the date of the first location in each trajectory that crossed the bottleneck.

Bottleneck	Passage Date	
	Spring (n = 26)	Autumn (n = 49)
Bosporus & Dardanelles Straights (Turkey)	22-Apr (07-Apr - 08-May) (n = 6)	08-Sep (31-Aug - 15-Sep) (n = 20)
Gulf of Iskenderun (Turkey)	27-Apr (10-Apr - 17-May) (n = 9)	06-Sep (04-Sep - 25-Sep) (n = 20)
Gulf of Suez (Egypt)	28-Apr (07-Apr - 22-May) (n = 21)	21-Sep (11-Sep - 02-Oct) (n = 15)
Southeastern Red Sea coast (Saudi Arabia, Yemen)	23-Mar (08-Mar - 29-Mar) (n = 5)	24-Sep (16-Sep - 01-Oct) (n = 31)
Bab-el-Mandeb Strait (Yemen, Djibouti)	21-Mar (07-Mar - 27-Mar) (n = 5)	29-Sep (24-Sep - 04-Oct) (n = 24)