



Asaf Mayrose

# Dispersal & Mortality Patterns of Lanner & Barbary Falcons in Israel and the Middle-East



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## The Lanner Falcon (*Falco biarmicus*)

- ✓ Extirpated from the Mediterranean Israel during the 1950s
- ✓ Regionally Critically Endangered with <25 pairs
- ✓ Captive Breeding & Release program since 2005
- ✓ Telemetry Study since 2019, of both captive and nature hatched (N=108)



Amir Ben-dov

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# The Barbary Falcon (*Falco peregrinus pelegrinoides*)

- ✓ Regionally Endangered in Israel with less than 40 pairs
- ✓ Population of more than 100 pairs until the 1980s
- ✓ Telemetry Study since 2021 (N=45)



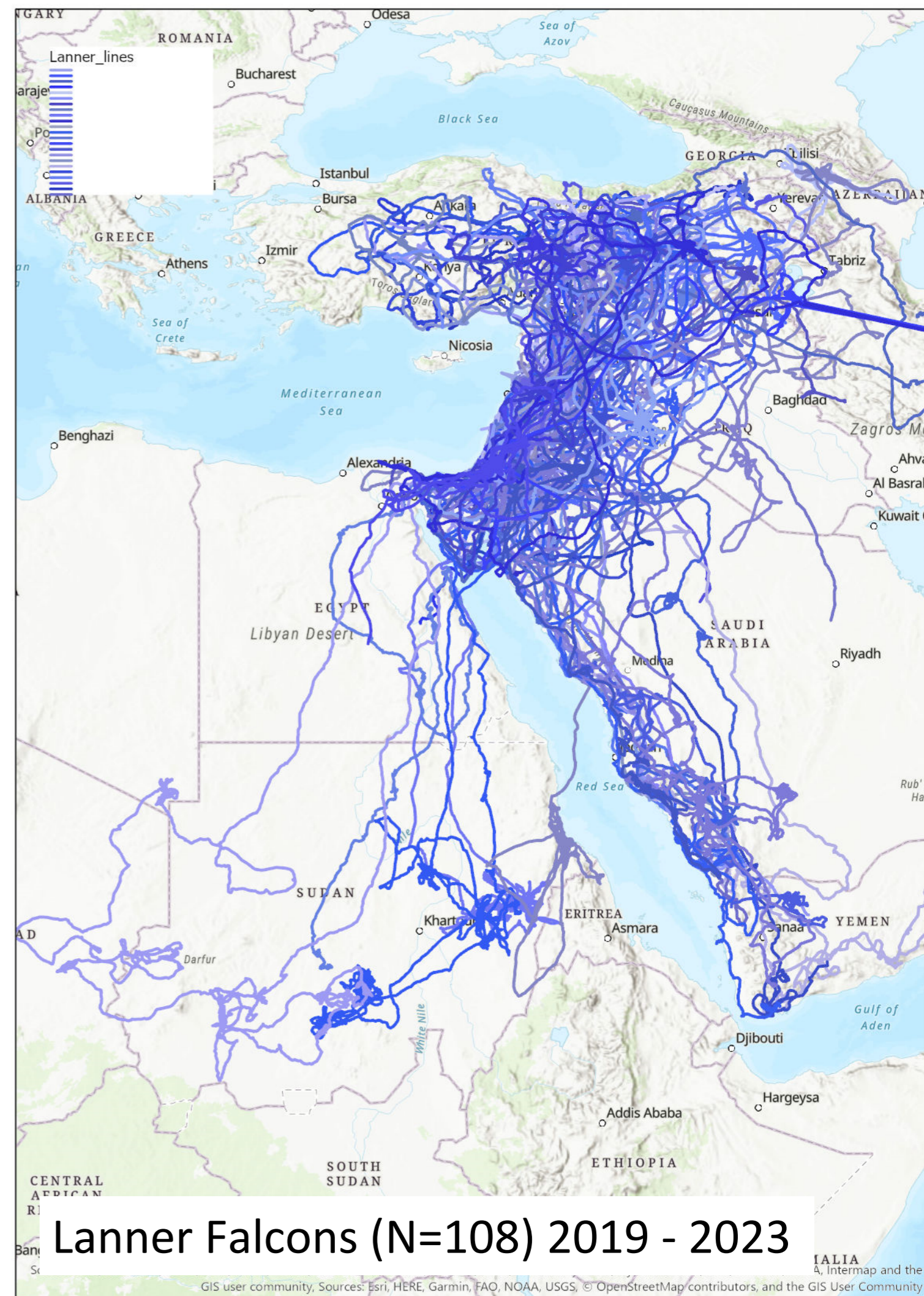
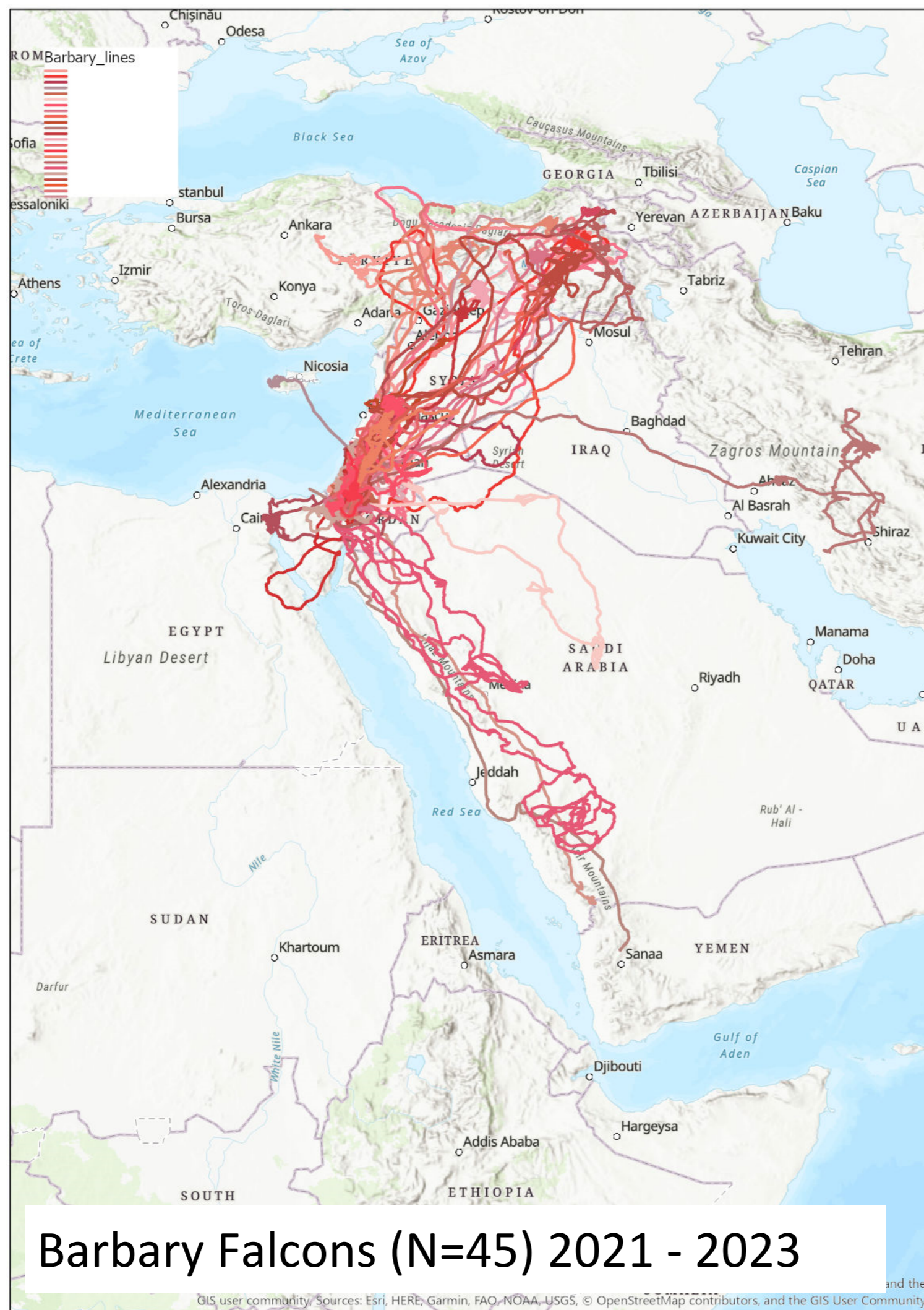
Lior Kislev

EN (C1,D1)



Barak Granit

# Barbary & Lanner Falcons Dispersal Patterns



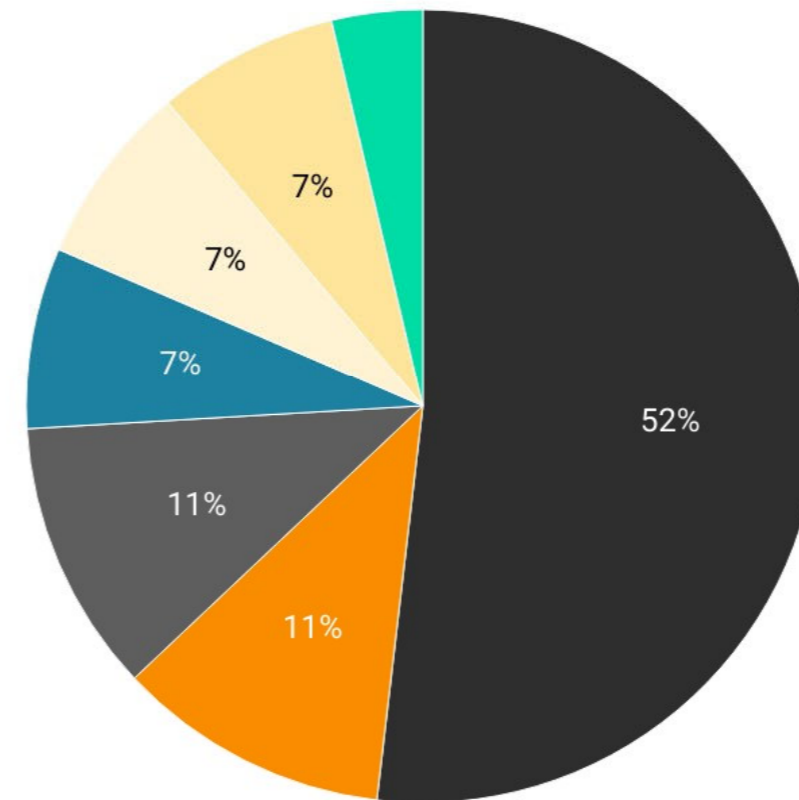
# Falcon Mortality Factors Inside and Outside Israel

*A Lanner from Israel  
caught in Yemen*

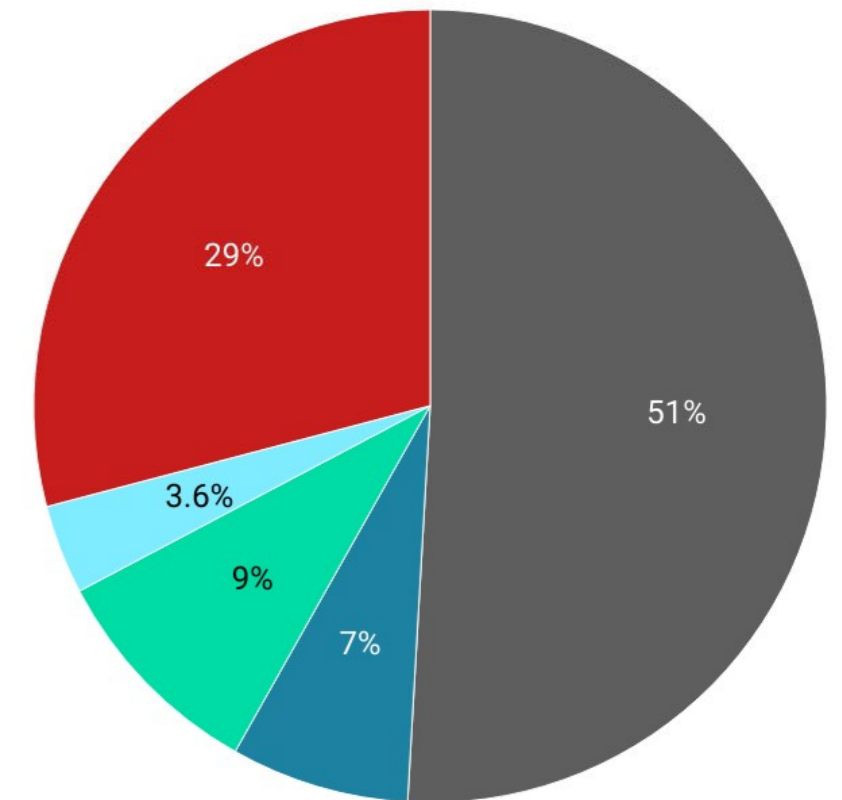


## [Lanner Mortality factors]

- unknown predispersal
- Predation
- unknown
- Collision
- Road kill
- Trichomonas
- Electrocution
- fatigue/starvation
- Trapped/Shot



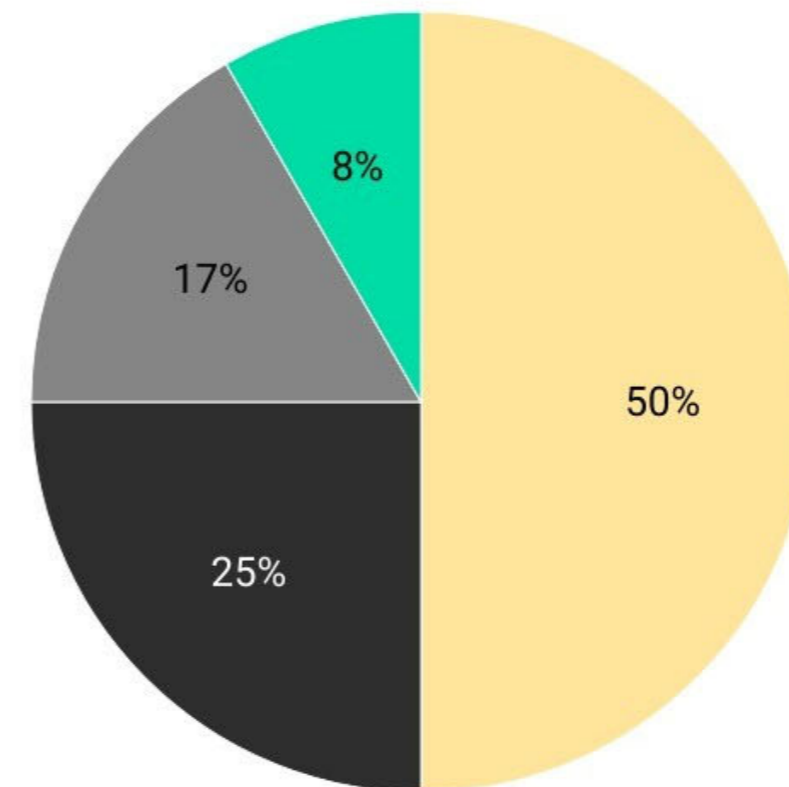
In Israel (N=27)



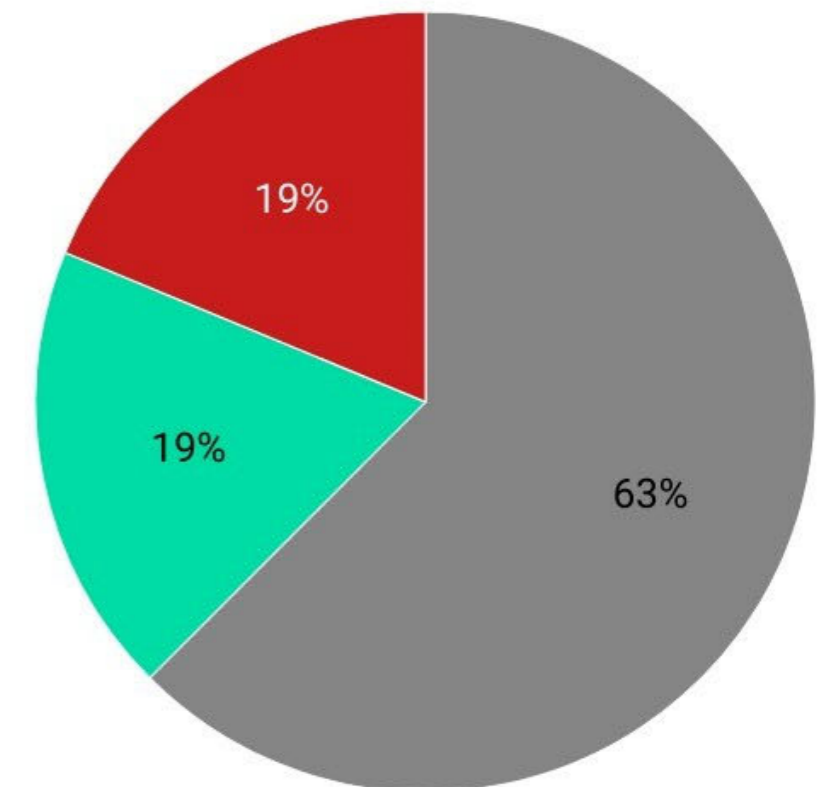
outside Israel (N=55)

## [Barbary Falcon Mortality factors]

- Trichomonas
- Unknown predispersal
- Unknown
- Electrocution
- Trapped / Shot

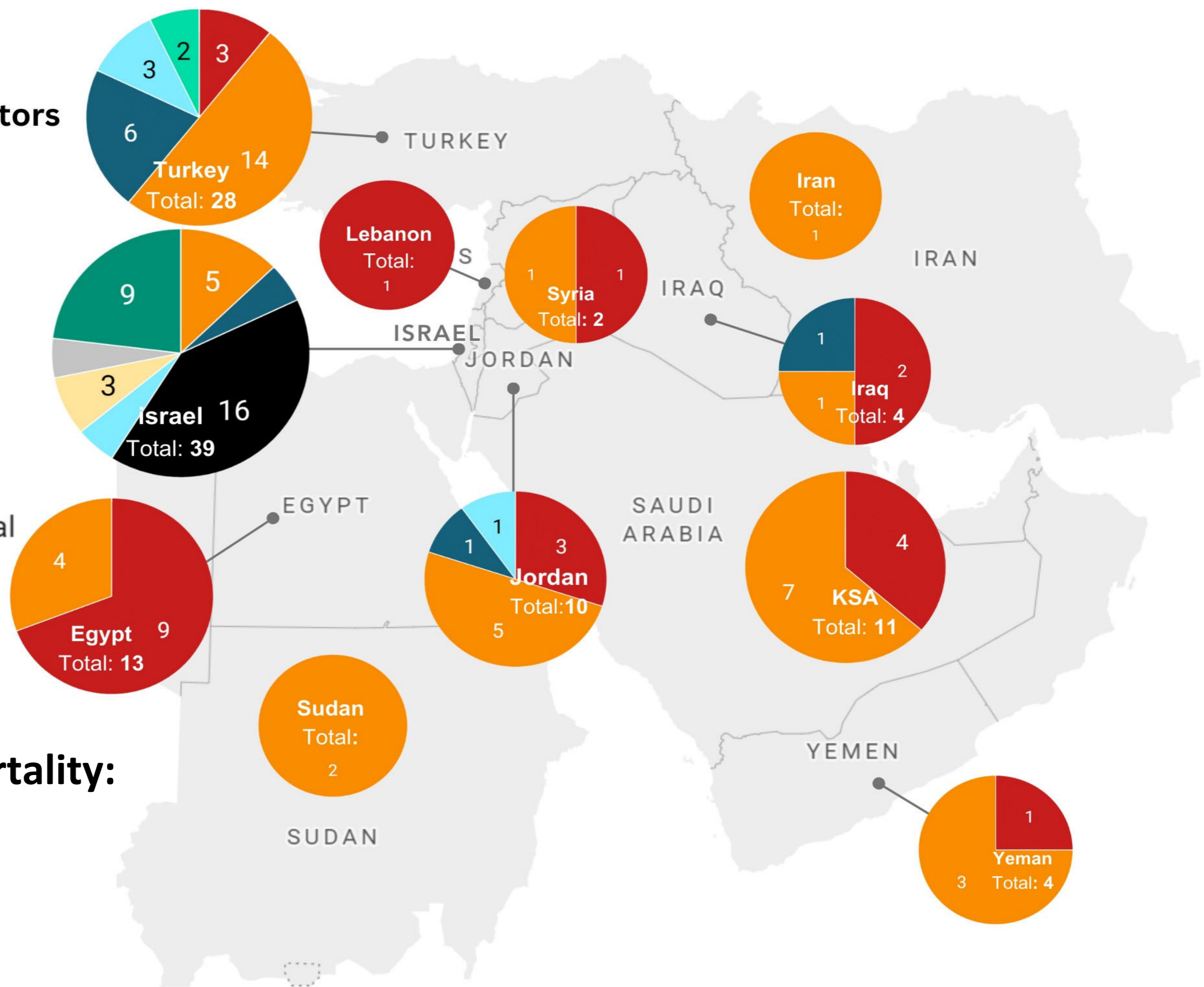


Inside Israel (N=12)



Outside Israel (N=16)

# Israeli Lanner and Barbary Mortality Factors



## Overall Juvenile (1<sup>st</sup> CY) Mortality:

- Lanner 83%
- Barbary 78%

# Concluding Remarks

- ✓ Trichomoniasis is a major mortality cause of falcon nestlings and fledglings during the parental dependance period (causing the death of 10 – 15% of the juveniles).
- ✓ Falcon trapping is of growing concern in the Middle-east, as their value skyrocketed due to economic crisis and the war in Syria and Iraq.
- ✓ Trapping toll is extremely high and apparently unsustainable (20 – 60% of all the falcons that start dispersal flight)



The screenshot shows the Mongabay website header with the logo and tagline "NEWS & INSPIRATION FROM NATURE'S FRONTLINE". Below the header is a navigation menu with categories like RAINFORESTS, OCEANS, ANIMALS, ENVIRONMENT, BUSINESS, SOLUTIONS, FOR KIDS, DONATE, IMPACT, and MORE. A search bar is present with the text "To search, type and hit enter." Below the navigation is a link to "Mongabay Series: Wild Bird Trade". The main article title is "Falcon trafficking soars in Middle East, fueled by conflict and poverty" by Lyse Mauvais on 10 August 2023. The article features a large image of two falcons perched on a dark, textured surface.



The screenshot shows the NUAE website header with the date "Tuesday 19 September 2023" and a "READ OUR E-PAPER" link. The main header is "NUAE" with a navigation menu including UAE, GULF, MENA, WORLD, BUSINESS, OPINION, CLIMATE, HEALTH, LIFESTYLE, ARTS & CULTURE, TRAVEL, SPORT, WEEKEND, and PODCASTS. Below the header is a secondary navigation menu with categories like Courts, Government, Education, Heritage, Health, Transport, Science, Megaprojects, Expo City Dubai, and UAE in Space. The main article title is "Falcon demand driving region's bird smuggling trade" with a sub-headline "UAE is most prominent nation for recorded bird trafficking cases since 2009". The article features a large image of a falcon perched on a dark, textured surface against a blue sky.

Thanks for  
listening!

