

KateliOS Group

for the Research and Protection of Marine and
Terrestrial Life



Nests and False Crawls of *Caretta caretta* at Mounda Beach in 2021

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with data base of KateliOS Group

What is the Katelios Group?

Philosophy: The search for solutions towards **co-existence between humans and nature** through sustainable development in order to support both the economy from the natural environment and the preservation of the quality of life in Kefalonia.



Mounda Bay



Main objective: Conservation of the sea turtle (*Caretta caretta*) in Mounda Bay and the research of the coastal area and the habitats of the main nesting population.

Internships and volunteering



- **“Katelios Group Kefalonian Conservation Marine Turtle (Caretta caretta) Project”** relies on the help of interns and volunteers from across the globe
- Interns/volunteers help throughout the June-July nesting period and August-September hatching period
- Roles:



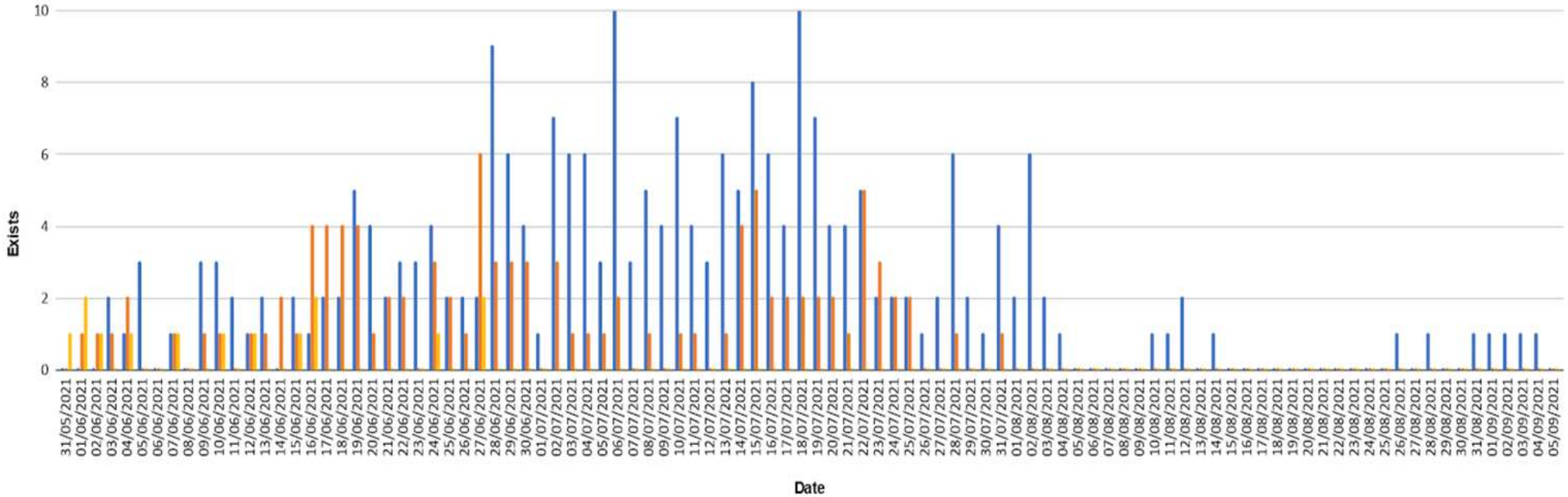
Monitoring of
Mounda beach



Data collection and
interpretation



Environmental awareness
and education



Number of exits each day during nesting season
Mounda Beach 2021
(356 total exits)

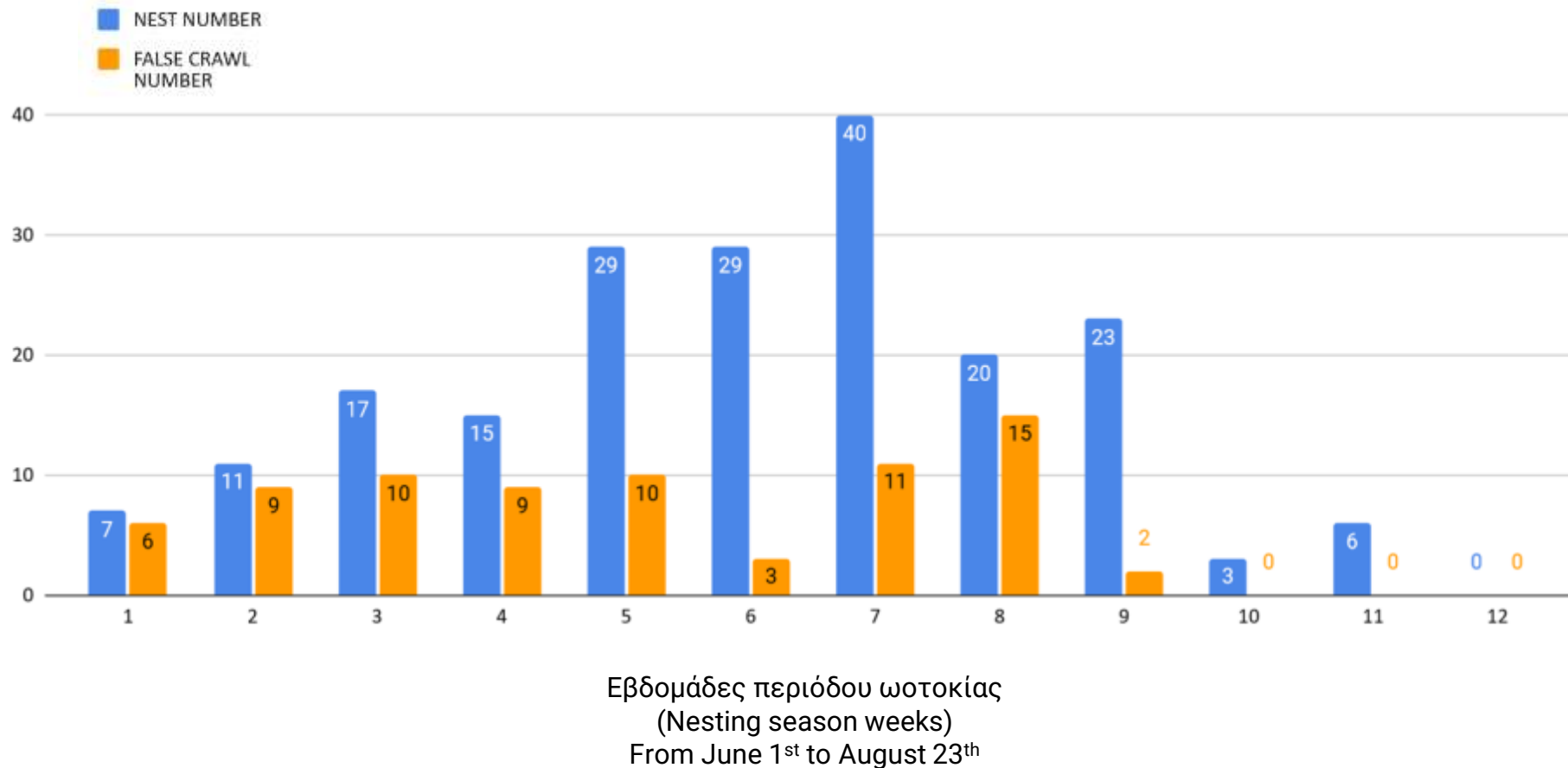
- Nest (237 total nests)
- False crawl (104 total false crawls)
- Investigation (15 total investigations)



Αριθμός αποτυχημένων προσπαθειών ωτοκίας ανά εβδομάδα - ακτή Μούντας 2021 (Number of nests and false crawls per week during nesting season - Mounda 2021)



Φωλιές και συμβάντα αποτυχημένων προσπαθειών
Nest & false crawl events



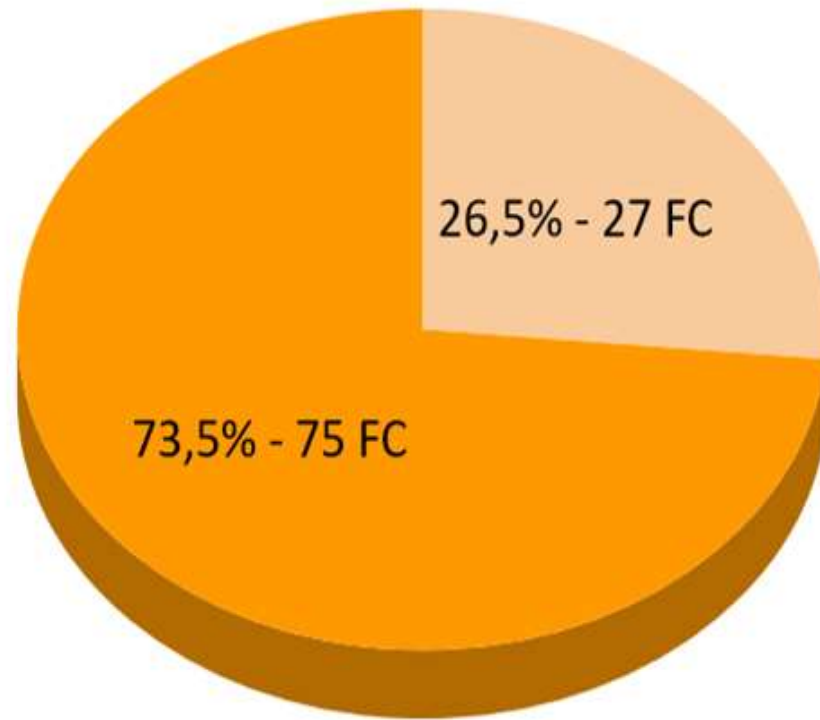
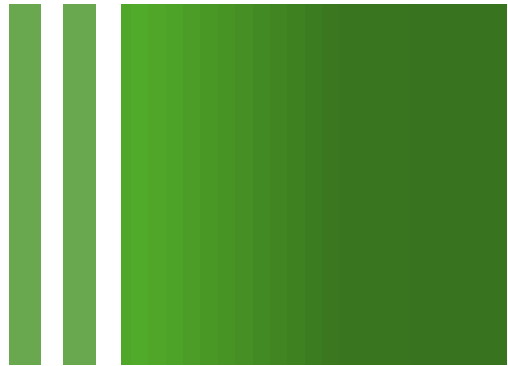
Πρώτη φωλιά (First nest): 03/06/2021

Τελευταία φωλιά (Last nest): 16/09/2021

Πρώτο συμβάν αποτυχημένης προσπάθειας (First false crawl event): 01/06/2021

Τελευταίο συμβάν αποτυχημένης προσπάθειας (Last false crawl event): 31/07/2021

Χωρική κατανομή αποτυχημένων προσπαθειών ωτοκίας-ακτή Μούντας 2021 (Spatial distribution of false crawls - Mounda beach 2021)



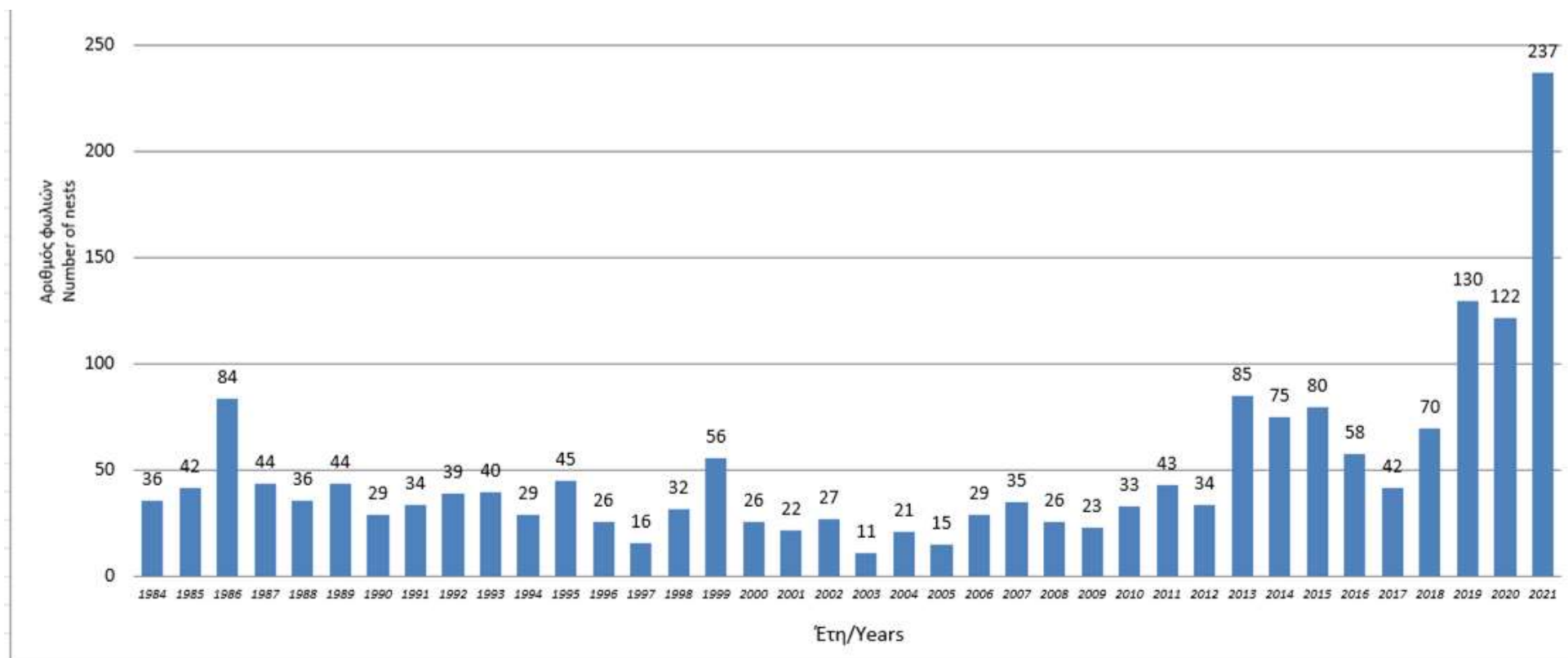
- Ποταμάκια/ Potomakia
- Καμίνια/ Kaminia

*FC = False Crawl



Συγκριτικός πίνακας αριθμού φωλιών θαλάσσιας χελώνας (*Caretta caretta*) στην Μούντα Κεφαλονιάς (1984-2021)

Number of nests of marine turtle on Mounda Beach, Kefalonia (1984-2021)



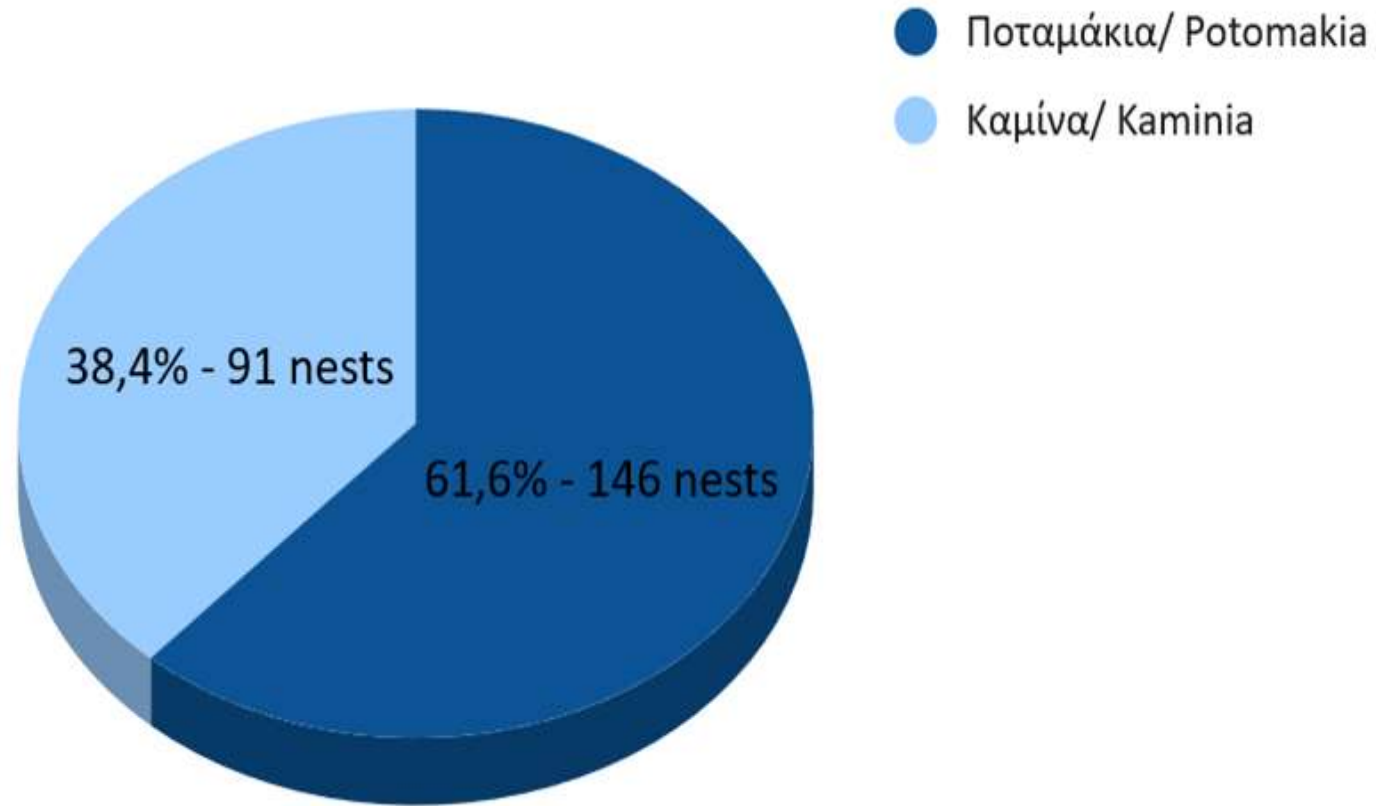
ΣΥΛΛΟΓΟΣ ΚΑΤΕΛΕΙΟΥ ΓΙΑ ΤΗΝ ΜΕΛΕΤΗ ΚΑΙ ΤΗΝ ΠΡΟΣΤΑΣΙΑ ΤΗΣ ΘΑΛΑΣΣΙΑΣ ΚΑΙ ΧΕΡΣΑΙΑΣ ΖΩΗΣ (1999-2021)

MARINE TURTLE PROJECT & KEFALONIAN MARINE TURTLE PROJECT(1984-1998)



2021 was the year with the most nests than the others years. *Caretta caretta* marine turtles preferred Mounda beach to lay their eggs during this year. We do not know the reasons for this at the moment.

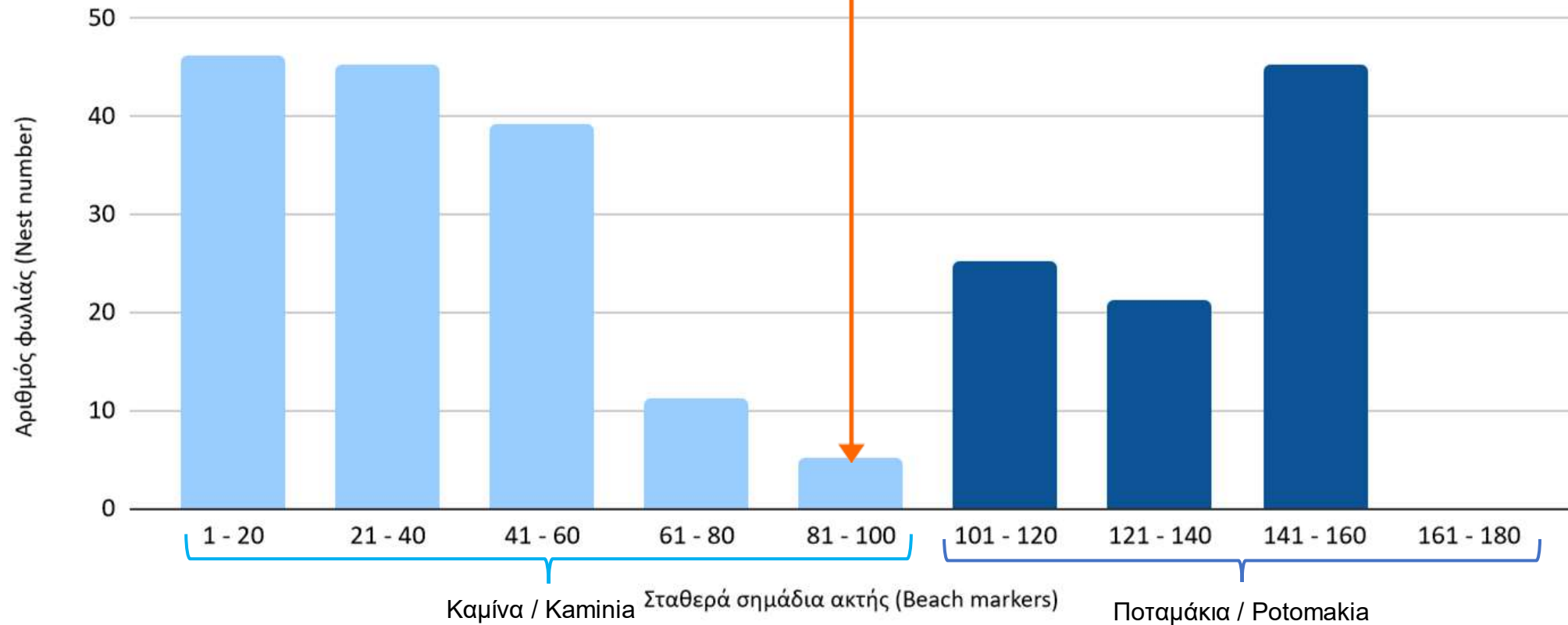
Χωρική κατανομή φωλιών - ακτή Μούντας 2021 (Nests spatial distribution - Mounda beach 2021)

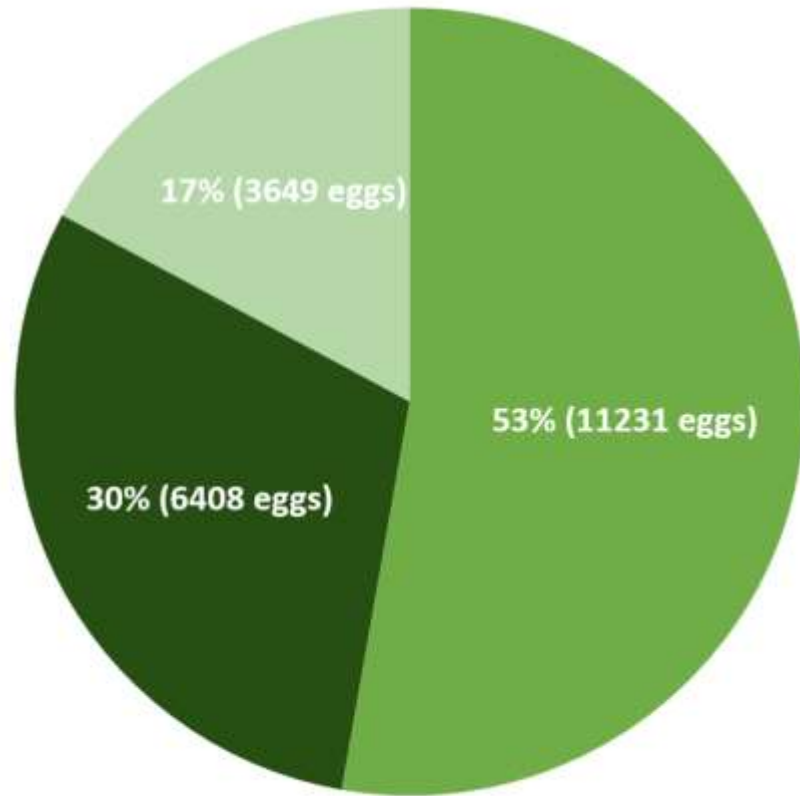


Χωρική κατανομή φωλιών - ακτή Μούντας 2021 (Regional distribution of nests - Mounda beach 2021)

Less nests in front of the hotel because of:

- Light pollution
- Sunbeds
- Umbrellas





- Total eggs of excavated nests
- Estimated total number of eggs from excavated nests without data
- Estimated number of eggs in not excavated nests

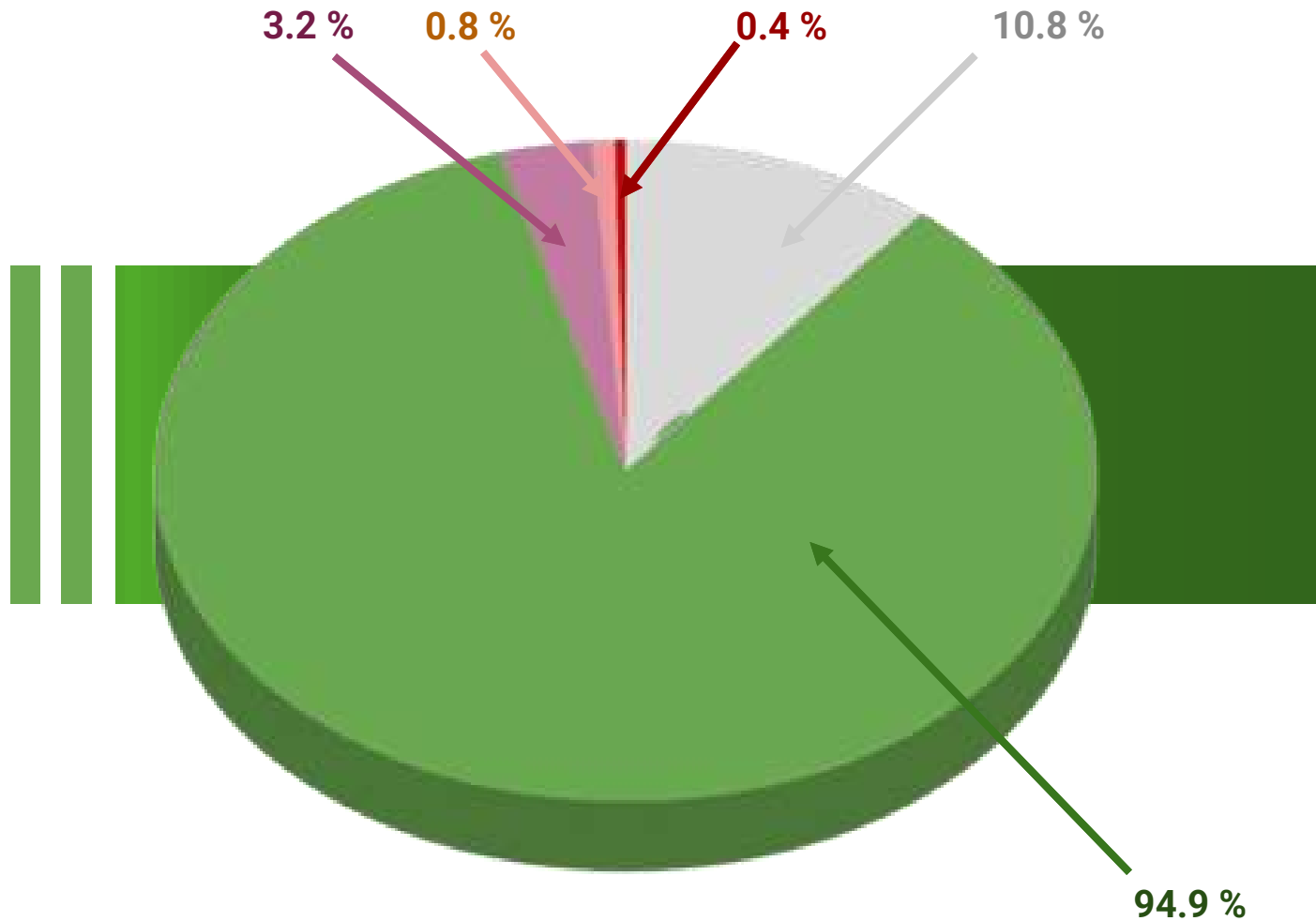


- Average number of eggs per excavated nest: 89 eggs/nest
- Estimated total number of eggs from all nests: 21288 eggs

Estimating total number of eggs during 2021 in Mounda Beach

Κατηγοριοποίηση περιεχομένου φωλιών - ακτή Μούντας 2021

Categorizing nest contents - Mounda beach 2021



- Λέκιθος αυγού χωρίς ένδειξη κηλίδας ματιού / Yolked with non eye spot
- Αναδυθέντα / Emerged hatchlings
- Νεκρά στη φωλιά / Not emerged hatchlings
- Έμβρυα σε διάφορα στάδια ανάπτυξης / Number of hatched (Different levels of embryo development)
- Αυγά ανώμαλης μορφολογίας / Odd shaped



Problems on Mounda Beach

- Few or no turtles in front of the hotels (light pollution, sunbeds, umbrellas)
- Illegal campers
- No signs explaining to tourists that the beach is a protected Natura 2000 area
- Umbrellas destroy nests
- Light pollution (from the hotels and from the tourists who use flashlights to observe turtles at night)
- Vehicles on the beach destroy nests (mainly motorbikes)
- Much rubbish (300 bags were collected during the whole season)



