





Local & national information campaigns

Summary of Outreach and Educational Activities in Greece and Cyprus

- 2 peer-to-peer seminars with university students
- 1 educational event with scouts
- 2 educational workshops with primary schools
- 10 awareness events for Shark Awareness Day (4 held in schools, 6 targeting the general public
- 2 awareness events for the general public during European Researchers' Night
- 2 peer-to-peer training sessions with small-scale fishers
- 2 awareness events specifically for small-scale fishers
- 3 workshops with recreational fishers
- 1 information campaign targeting recreational fishers
- 4 workshops with fisheries stakeholders focused on legislation and conservation awareness
- Participation in conferences and other events



'Shark and Ray Identification Workshops for National Authorities in the Republic of Cyprus'

- Delivered 1 online and 2 in-person workshops for national authorities.
- Aimed at strengthening shark and ray identification skills among DFMR controllers and scientific observers.
- 45+ participants from DFMR attended.
- Organised by MER with Monica Barone (FAO), iSea, and DFMR.
- Sessions improved recognition of threatened species and supported more effective compliance, with active exchange between trainers and controllers.



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Action E3: Replicability actions in Cyprus



Activity: E.3.2. Replicability of innovative and low impact

longline

✓ Explored innovative gear modifications to mitigate bycatch and post-release mortality in Cyprus' surface longline fisheries, focusing on the efficacy of circle hooks.



✓ Studies show no significant difference between J hooks and Circle hooks on type of catch, or post mortality rates of bycatch.

Fishing gear modifications to reduce elasmobranch mortality in pelagic and bottom longline fisheries off Northeast Brazil

Conference: International Symposium on Circle Hooks in Research, Management and

🗬 Fábio Hazin - Felipe Carvalho - Jose C Pacheco - Show all 8 authors -

Fisheries Research



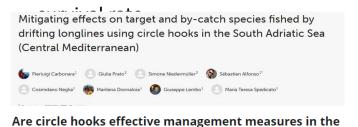
A comparison of circle hook and I hook performance in a western equatorial Atlantic Ocean pelagic longline fishery

J.C. Pacheco a, D.W. Kerstetter b, F.H. Hazin c, Humberto Hazin A 💆 🖼 , R.S.S.L. Segundo c

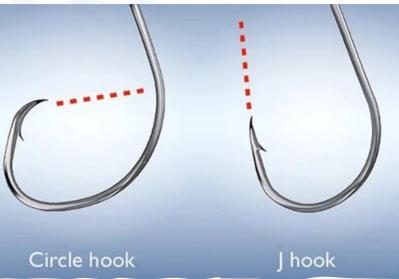
pelagic longline fishery for sharks in the Gulf of Gabès?

st published: 07 March 2020 | https://doi.org/10.1002/aqc.3315 | Citations: 3 With the contribution of the Life financial instrument of the European Union

- ✓ Studies indicate that circle hooks decrease bycatch by up to 60 % due to their design.
- ✓ Improved post-release survival as they minimize deep hooking which improves



Bechir Saidi 🔀 Khaled Echwikhi, Samira Enajjar, Sami Karaa, Imed Jribi, Mohamed N. Bradai



Life Elife

Action E3



Activity: E.3.2. Replicability of innovative and low impact longline

CURRENT SITUATION - CYPRUS

- Onboard expeditions with pelagic longlines have been conducted between 19/04/2024 – 0/06/2024
- **Number of trials**: 14 fishing trials conducted in collaboration with local longline fishers.
- **Trips**: Southeastern **Cyprus**, 35 nm each.
- Hook types tested:
 - √ 450 J-hooks and 450 circle hooks used per trial to compare performance.
- Bait used:
 - ✓ Mackerel and artificial squid to attract both target and non-target species.

AIM: Explore innovative gear modifications to mitigate bycatch and post-release mortality in Cyprus' surface longline fisheries, focusing on the efficacy of circle hooks.





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METHODOLOGY

Size measurements (morphometrics):

- Total Length (TL)
- Fork Length (FL)
- Curved Fork Length (CFL)
- Curved Lower Jaw Fork Length (CLD)

- Type of hook used
- Location of catch
- Bait type
- State of specimen (Alive / dead)







- MiniPAT pop-up tags: Deployed on sharks greater than 1m in length.
 - ✓ Purpose: To track post-release behavior and movement patterns.
 - ✓ **Data logged**: Depth, temperature, and migratory routes, providing insights into survival rates and postrelease recovery.
- Fin clip and muscle biopsy: Collected from selected specimens for genetic and health assessments.
 - ✓ Purpose: To study population genetics, stock identification, and physiological condition of captured species.









Action E3





Activity: E.3.2. Replicability of innovative and low impact

longline

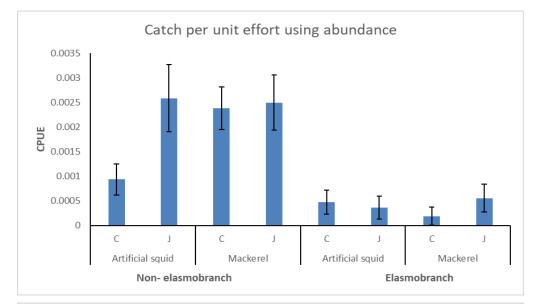
Results

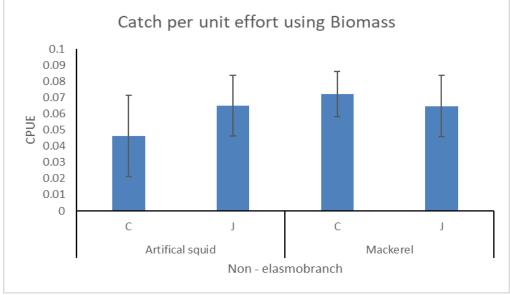
10 Elasmobranch species (6 A. superciliosus, 3 P. glauca, and 1 I. oxyrinchus)

- 40% on Circle hooks
- 60% on J hooks
- 50% on Artificial squid / Mackerel

46 non-elasmobranch species (36 X. gladius, 2 T. thunnus, 2 C. hippurus, 3 T. belone

- 58.7% on J hooks
- 41.3% on Circle hooks
- 60.8% on Mackerel
- 39.1% on Artificial squid









Merz

Action E3



Activity: E.3.2. Replicability of innovative and low impact

longline

4 sharks were equipped with satellite tags (3 A. superciliosus and 1 I. oxyrinchus).

I. oxyrinchus in four months traveled from Cyprus to Italy.

Working with fishers to collect more fishery independent data, further evaluating the efficacy of circled hooks and alternative baits





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