

## Mediterranean Forum for Applied Ecosystem-Based Management (MED4EBM)

### منتدى متوسطي لإدارة الموارد البحرية والساحلية بنهج النظام البيئي

#### Project's Final Workshop

#### ورشة العمل الختامية

إدارة الموارد البحرية والساحلية: من جمع البيانات بمشاركة المجتمع المحلي إلى استراتيجيات الإدارة التنفيذية  
دراسة واقع الحال في العقبة الأردن

## Coastal Resources Ecosystem Based Management: From Community Engaged Data Gathering to Governance Protocols Case Study: Aqaba Jordan

الخميس 21 أيلول 2023 Monday, May 23<sup>rd</sup> 2022

تونس العاصمة، تونس Tunis, Tunisia

# Mediterranean Forum for Applied Ecosystem-Based Management (MED4EBM)

## منتدى المتوسط لإدارة الموارد البحرية والساحلية بنهج النظام البيئي

National Workshop

ورشة عمل وطنية

إدارة مصائد الاسماك بنهج النظام البيئي في العقبة، الأردن: من الرصد بمشاركة مجتمع الصيادين إلى استراتيجيات الإدارة التنفيذية

## Fisheries Ecosystem Based Management in Aqaba, Jordan: From Community Engaged Monitoring to Management Strategies

تحليل أولي لبيانات المصيد 2014-2021

## Preliminary Analysis of Fishing Information 2014-2021

د. محمد بدران

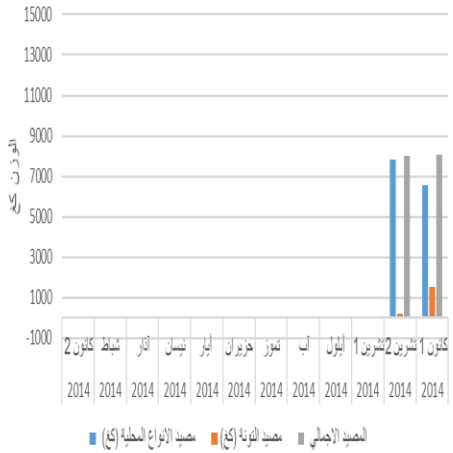
Dr. Mohammad Badran

الاثنين 23 أيار 2022 Monday, May 23<sup>rd</sup> 2022

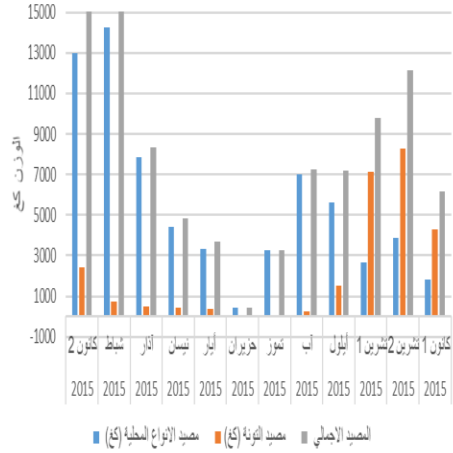
العقبة، الأردن Aqaba, Jordan

# إجمالي المصيد من الأصناف المحلية ومن أصناف التونا

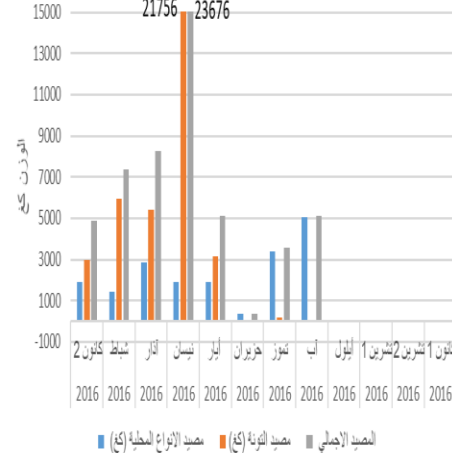
2014



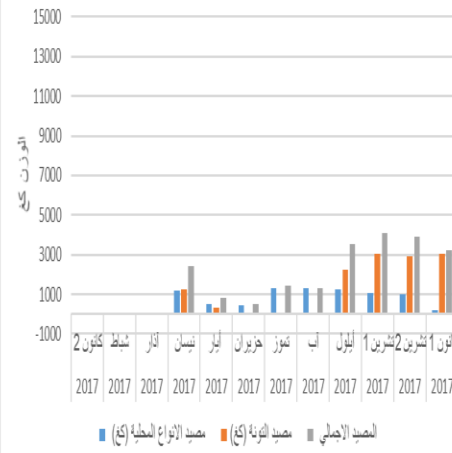
2015



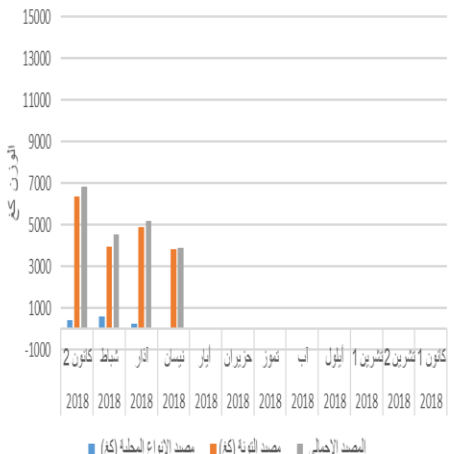
2016



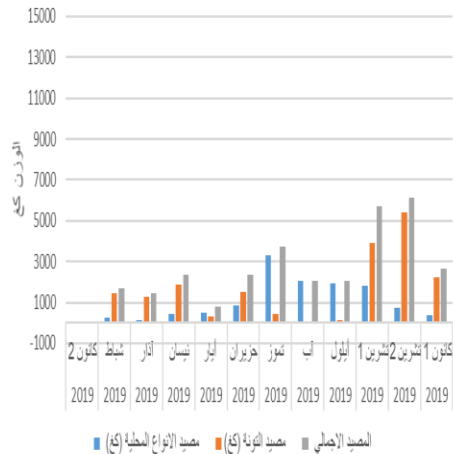
2017



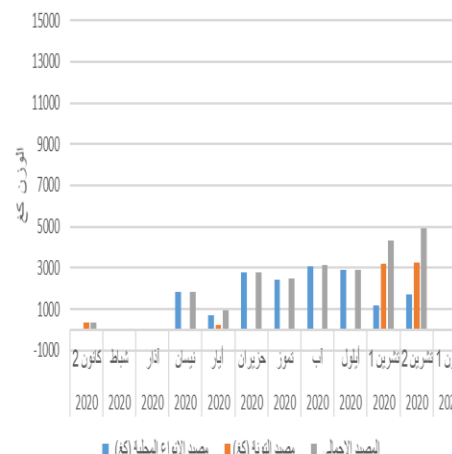
2018



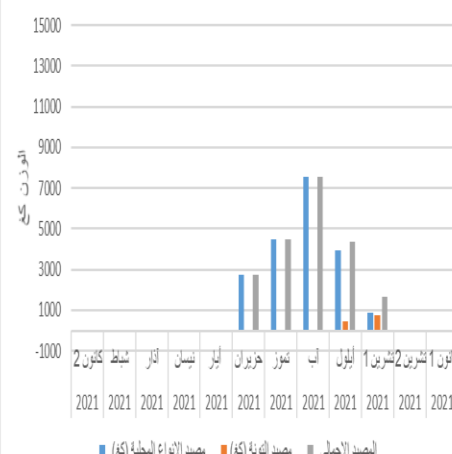
2019



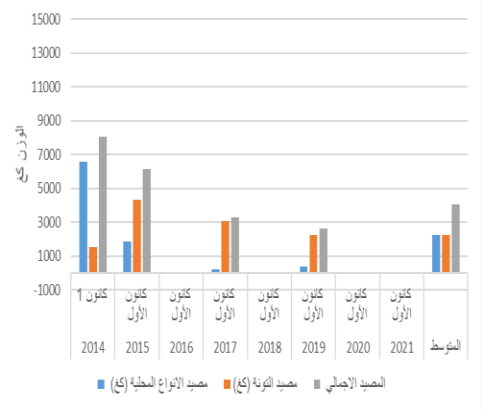
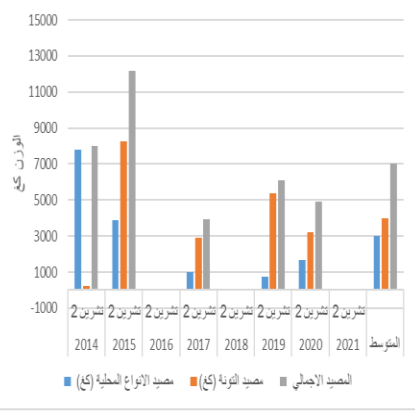
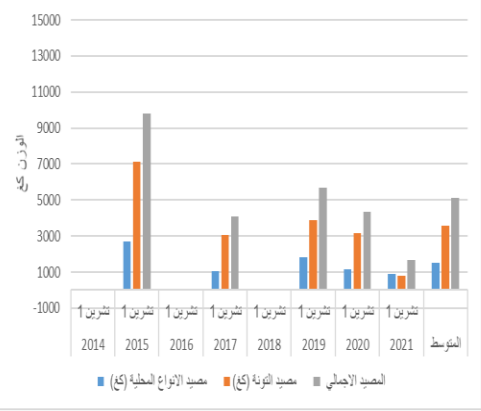
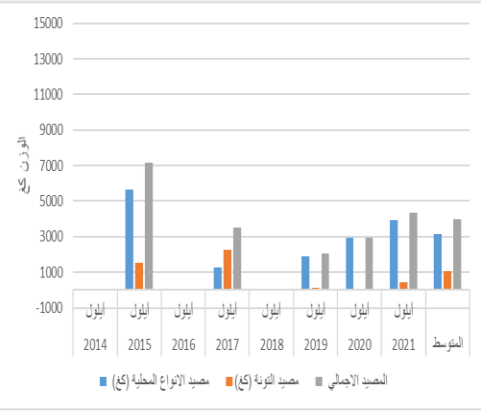
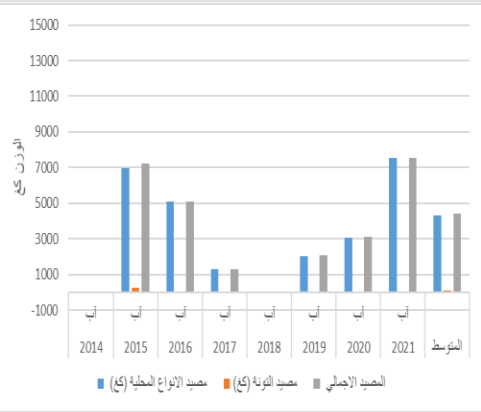
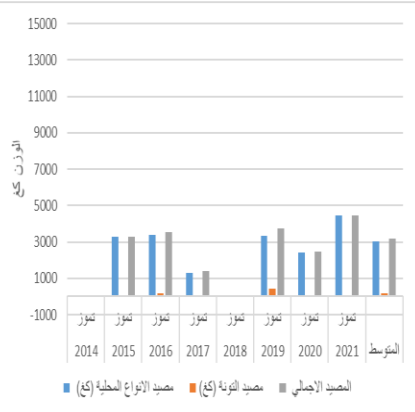
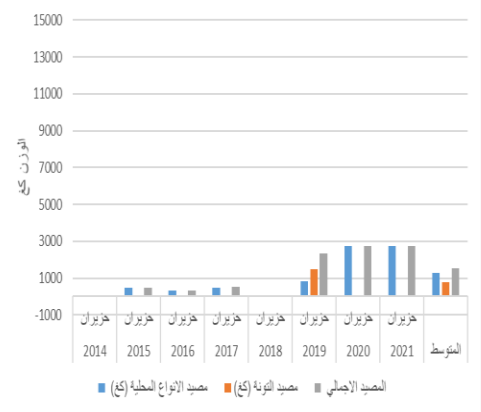
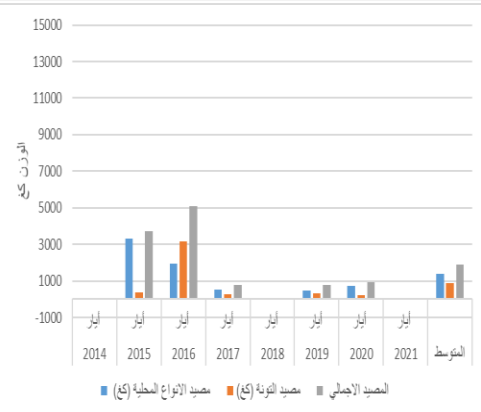
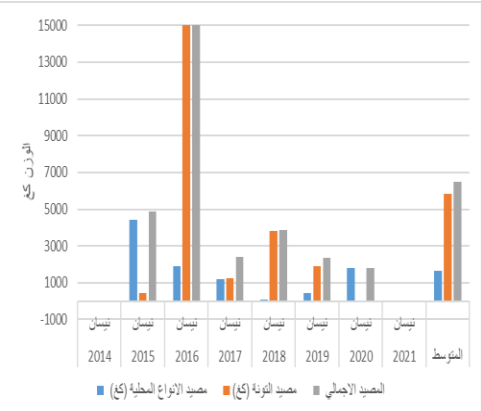
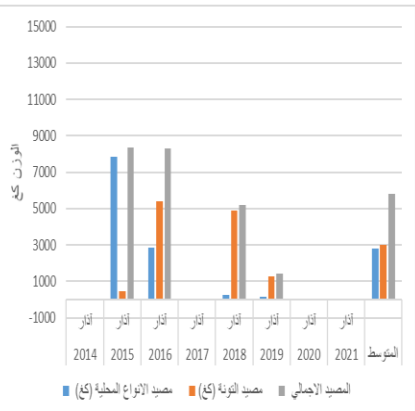
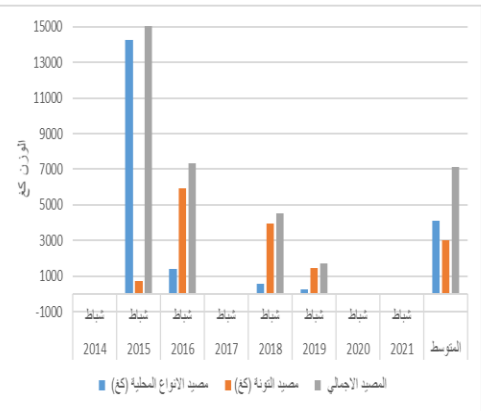
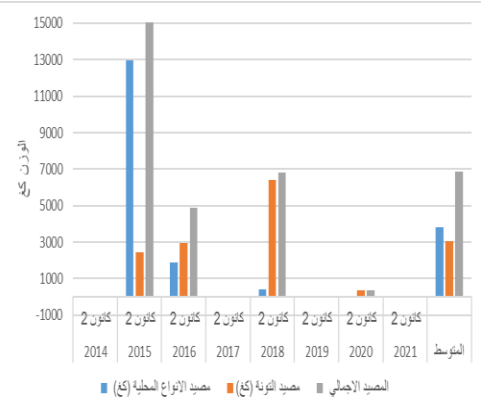
2020



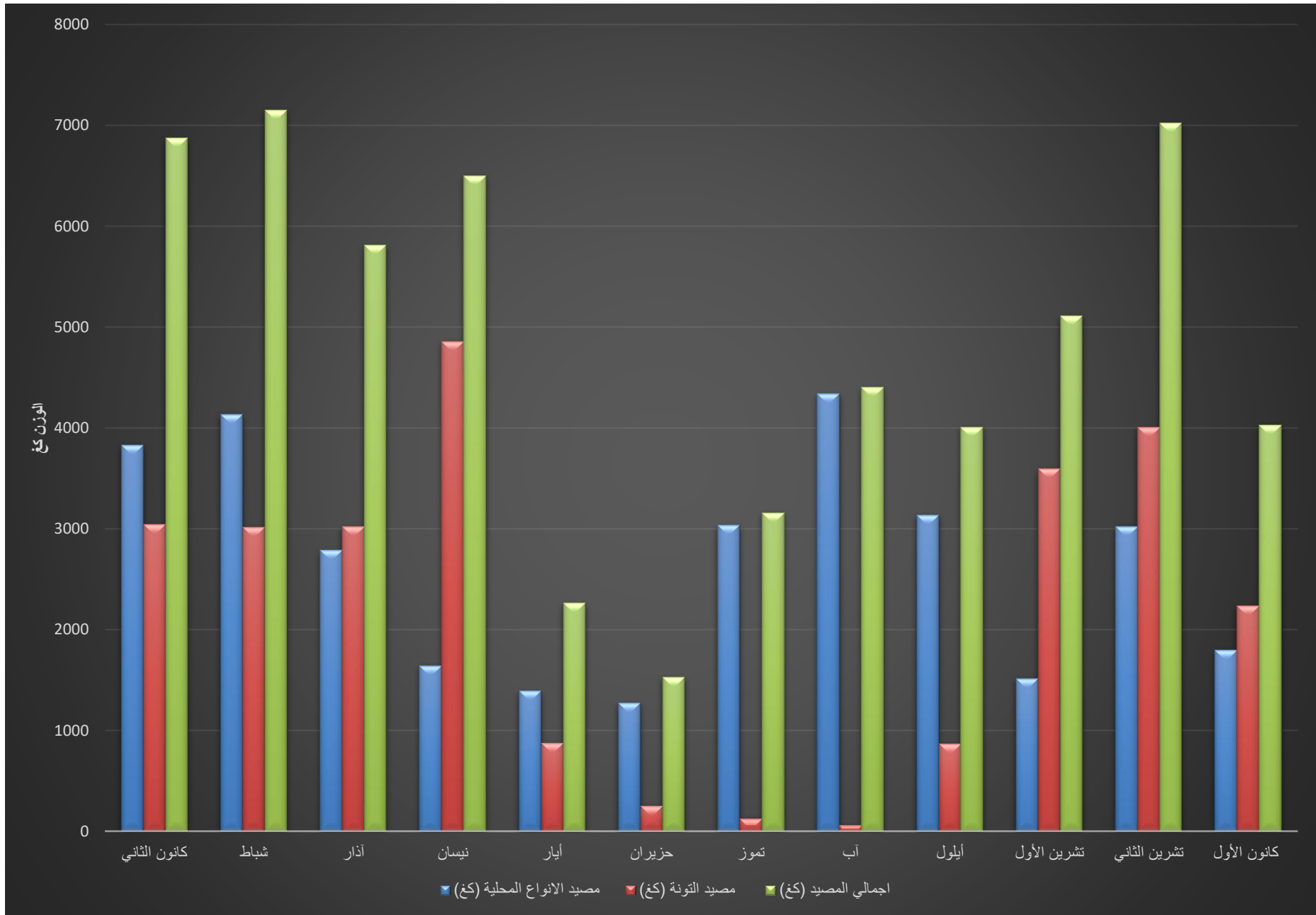
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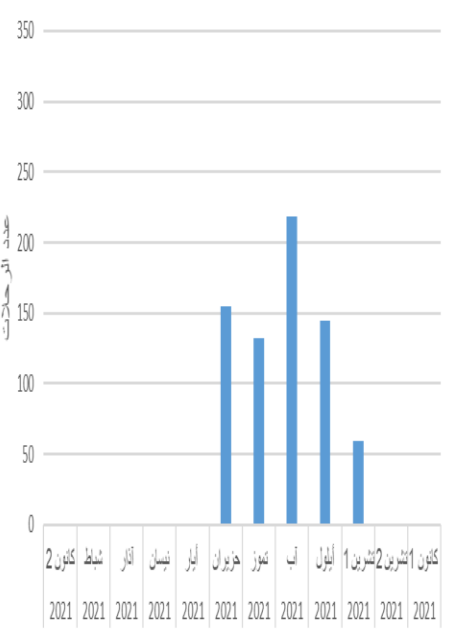
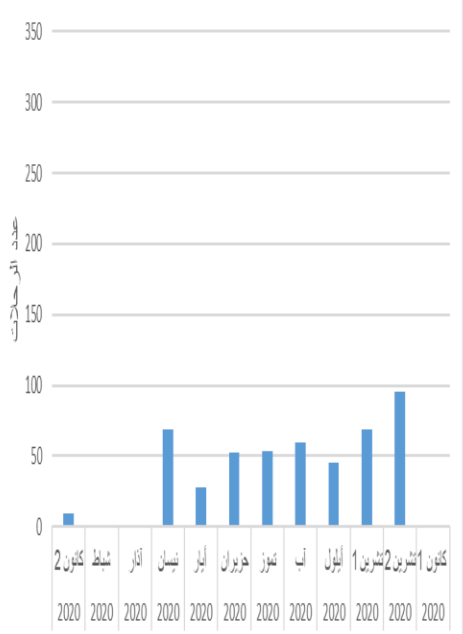
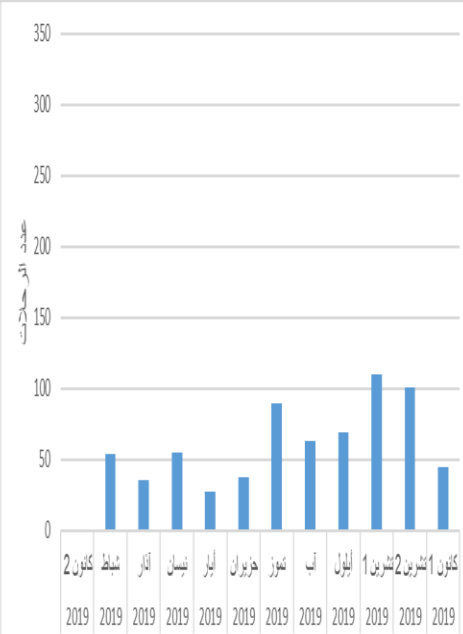
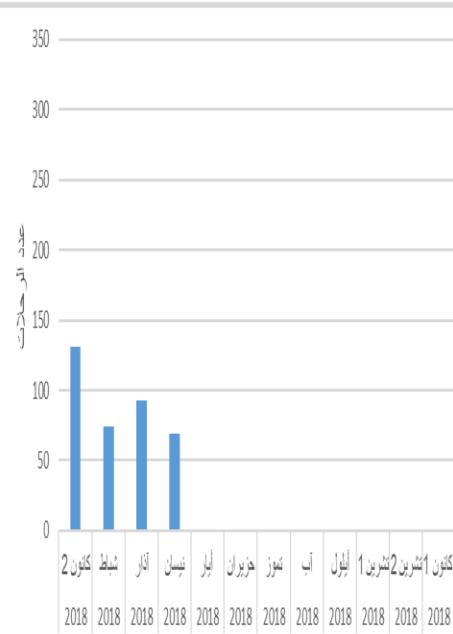
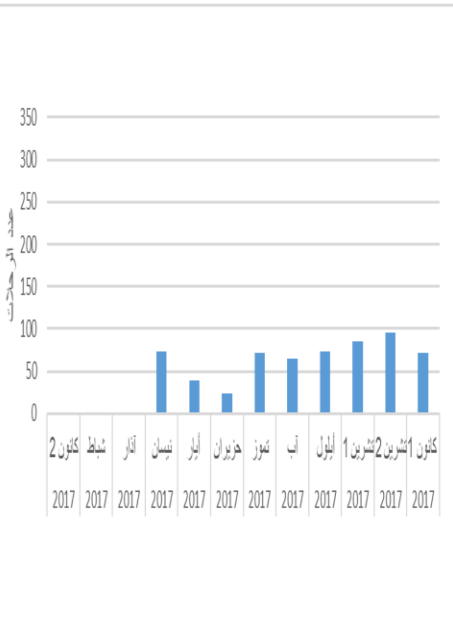
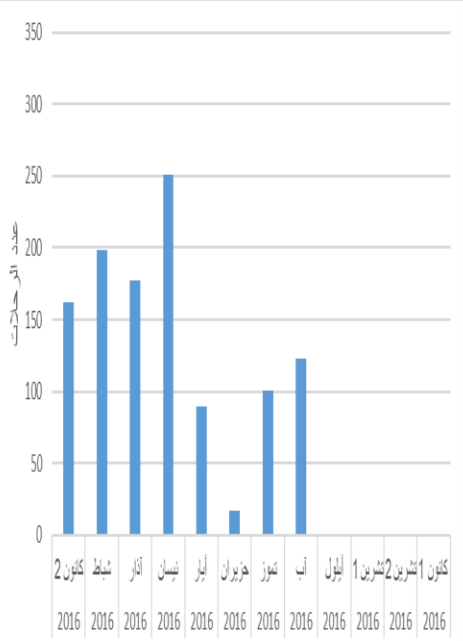
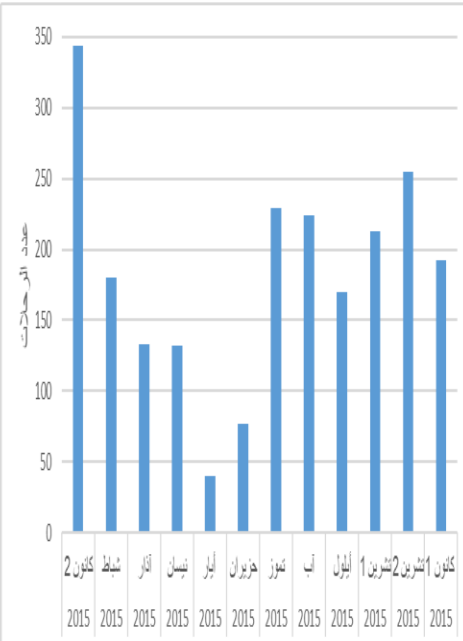
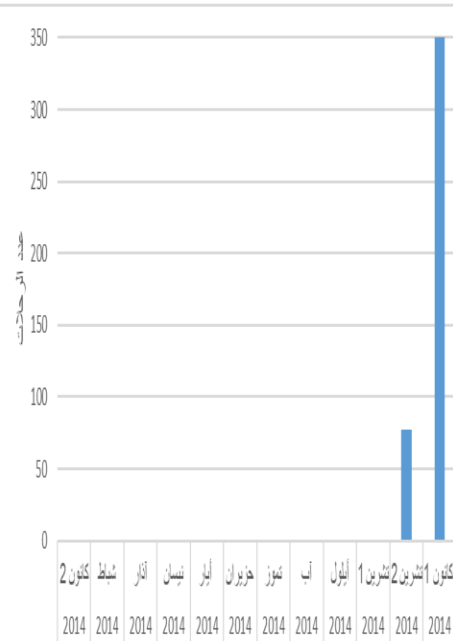
# إجمالي المصيد والمتوسط الشهري من الأصناف المحلية ومن أصناف التونا لأعوام 2014-2021



# المتوسط الشهري للمصيد من الأصناف المحلية ومن أصناف التونا لأعوام 2014-2021



# جهد المصيد (عدد رحلات الصيد) لأعوام 2014-2021





# Detailed Catch by Fishing Boat, Marketability and Money value

One Sheet for Each Boat

MED4EBM Project Fisheries Data Gathering Campaign, Aqaba Jordan

Specific Fishing Boats Effort and Catch Data Sheet

Day:

Date:

Time:

Data Collected by:

Data Reviewed by:

## Vessel/ Boat (Description)

Boat Identification Number :

Boat Name:

Boat Crew Capacity:

Engine horsepower:

## Fishing Effort Details

Fishing gears:

Trip length:

Petrol Consumed

Crew count:

Used Bait Type:

Used Bait Quantity

Fishing point name:

Fishing point coordinates N:

Fishing point coordinates E:

## Catch Details

Species local name

Wt. (Kg)

Size

Age

Gonads content

Total landing (Kg)

Length:

Width:

## Environmental Conditions

Temperature (°C):

Wind Speed (km/h):

Tide (high/low):

## Fishing Value

Fish Buyer

Species Local Name

Wt. (kg)

Total Catch the same day

Price (JD)

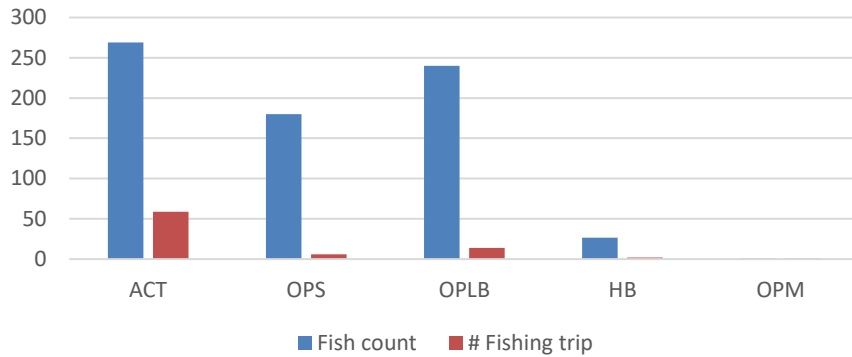
Crew Observation on environmental conditions:

Crew Observation on incidents and violations:

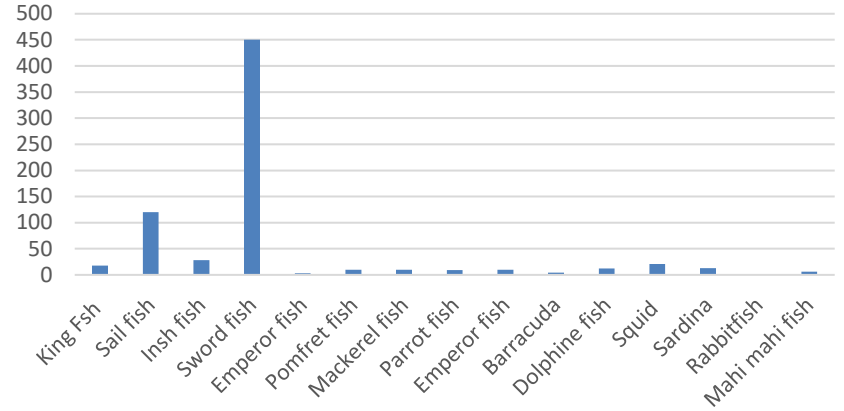


# First Results: Fishing

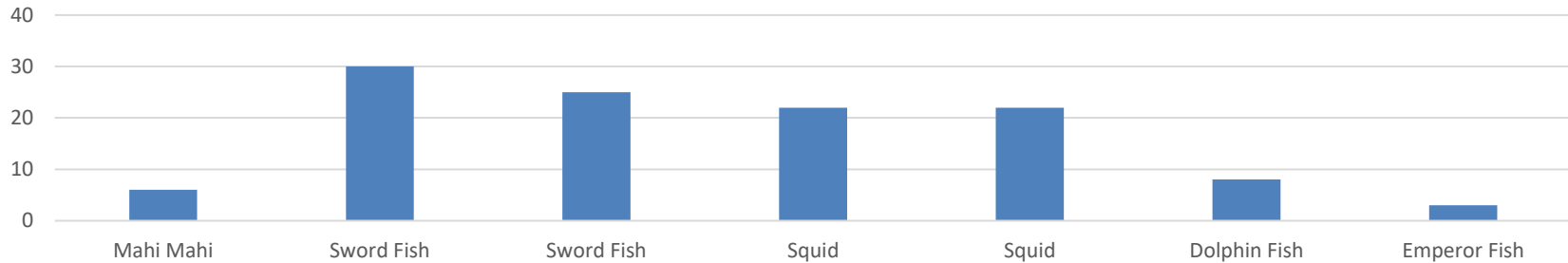
Fish count and number of fishing trips for each location August 28th - September 6th 2023



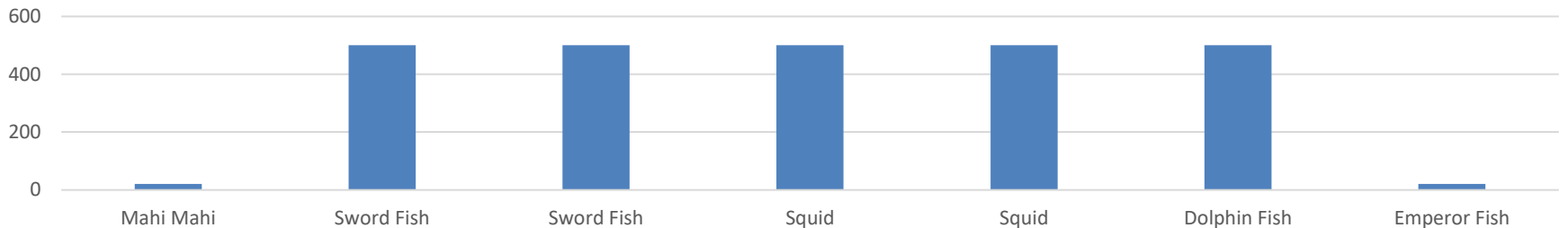
Total catch (Kg)



Total Day Catch (Kg) All Boats

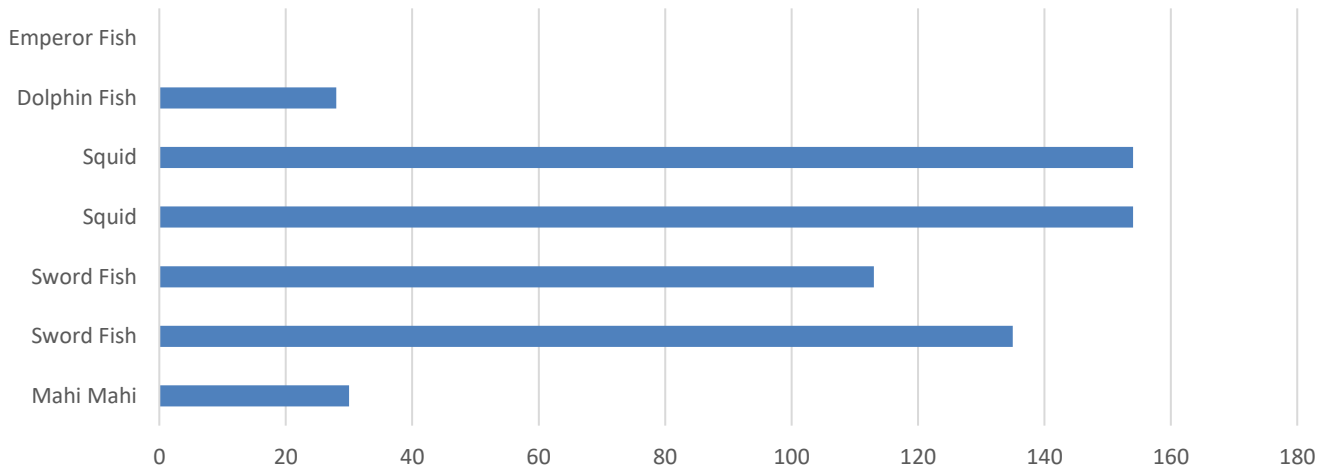


Depth (m)

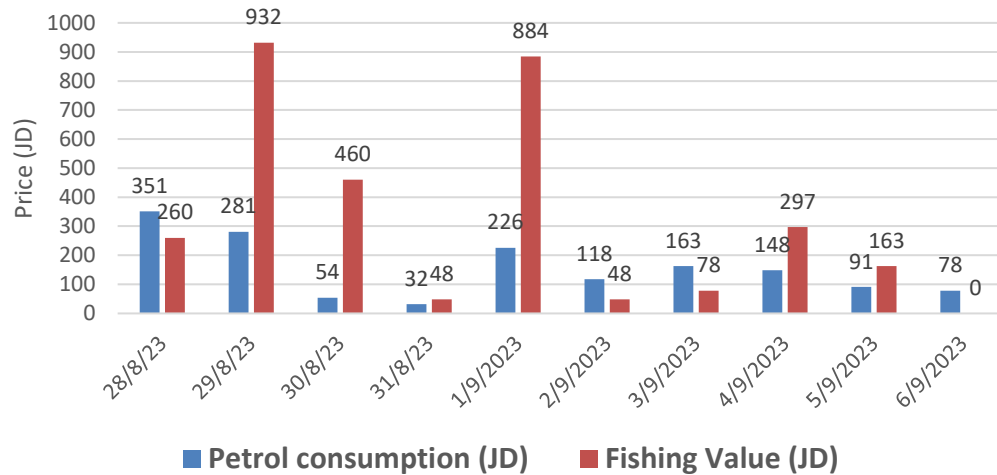


# First Results: Revenue and Cost

## Total Fish Price (JD)

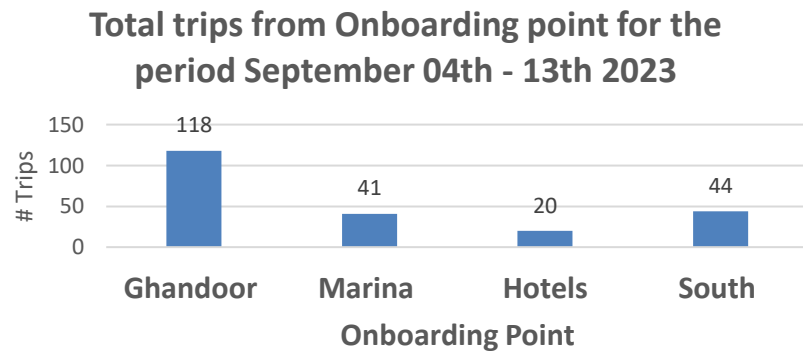
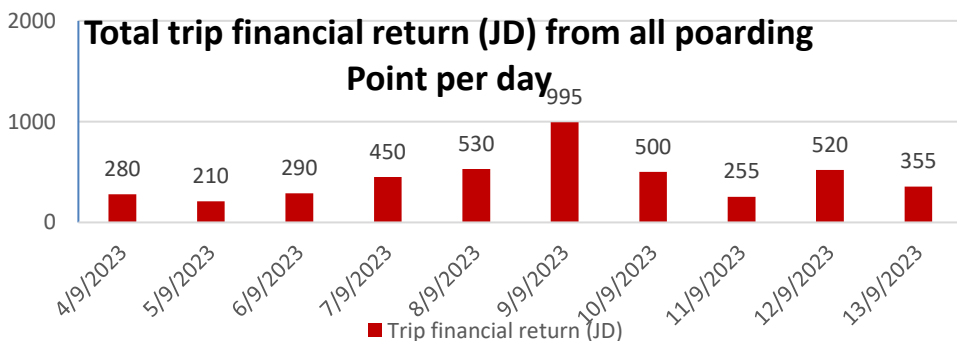
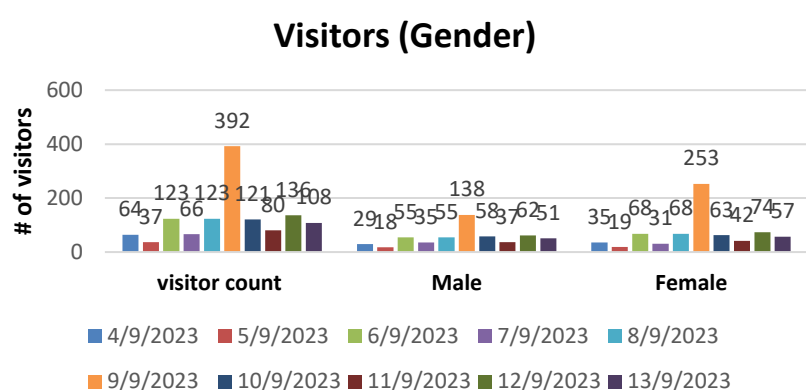
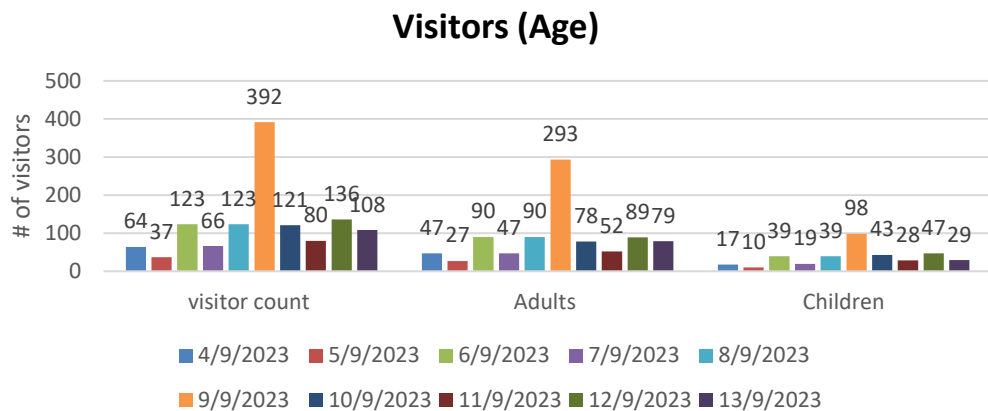
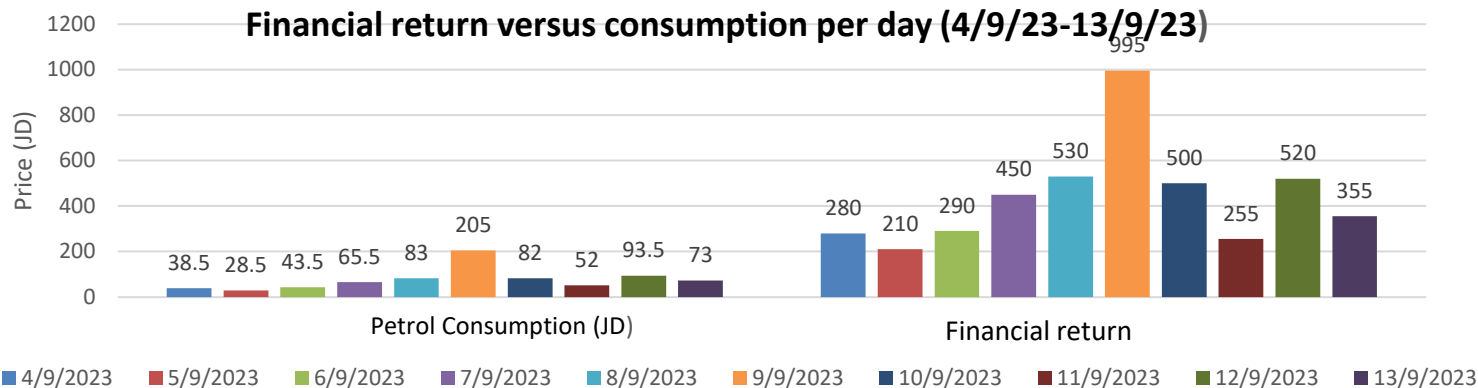


## Petrol consumption versus fishing value





# First Results: Glass Bottom Boats



# MED4EBM Recreational Diving Information Sheet

## Diving Data Gathering Campaign, August 15th 2023

Year	Month	Day	Time	Dive #	Dive Site	Dive Site Coordinates	Dive Centre	Dive Guide(s) Name(s)	Dive Guides Certificates	No. of Guest Divers	Nationality	Age below 15
				1								
				2								
				3								
				4								
				5								
				6								
				7								
				8								
				9								
				10								
				11								
				12								
				13								
				14								
				15								
				16								
				17								
				18								

## Diving Data Gathering Campaign, August 15th 2023

16-25	26-35	36-50	Age above 50	Guest Dive Certificates	Dive Duration	Dive Depth	Water temperature	Weather Conditions	Sea Condition	Distinguished Biodiversity Seen	Observations and Notes

**Reef Check**

<https://www.reefcheck.org/>

# Monitoring Protocols Operationality and Sustainable Application

- Introduction and testing by MED4EBM Project
- Community Societies implementing the Protocol will continue for not less than two months after the Project ends
- Contacts have been established between Thaghr el Ordon Fishermen Society and PERSGA Sustainable Fisheries Project to continue implementing the Protocols for up to six months further
- Aqaba Fish Market and Marina are currently under commissioning, in which the Fishermen Society has been allocated 5 stores. All fish catch will be landed and inventoried in the fish market under supervision of the Fishermen Society
- Four Projects currently in the pipeline will adopt the Protocols in their implementation:
  - Enhancing Aqaba Marine Reserve Management Capacity
  - Enhancing Coral Reefs of the Gulf of Aqaba Resilience to Climate Change
  - UNDP ASEZA GEF Blue Economy on the Jordanian coast of the Gulf of Aqaba
  - UNEP PERSGA GEF Sustainable Blue Economy Project in the Red Sea and Gulf of Aden



شكرا جزيلًا

THANK YOU

