



The Effectiveness of Fish Aggregating Devices

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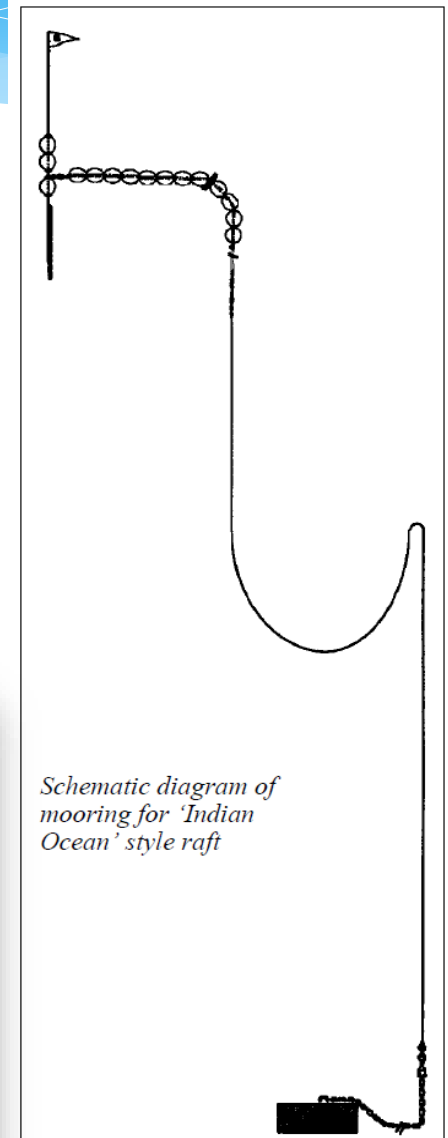
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Background

Fish Aggregating Devices are artificial objects placed strategically in the ocean to gather pelagic fish. They were first introduced in 1986 by the Overseas Fishery Cooperation Foundation (OFCF) of Japan. They're made of various materials such as buoys, lines, nets, ropes and are anchored to the sea floor. The FADs act as a shelter/shade and provide food for small fishes.



<https://www.pewtrusts.org/~media/legacy/uploadedfiles/fadreport1212pdf.pdf>



Hypothesis

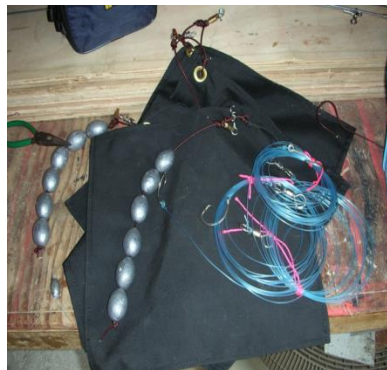
Determine the effectiveness of FADs regarding:

- * Income
- * Fuel usage
- * Sustainable fishing
- * Food security
- * Safer fishing



Materials and Methods

- * Interviews with the local fishermen (what they've fished, kinds of fishing gear, how much was caught, and fuel usage.)
- * Local fishermen can also report on the FADs conditions and send feedback to MIMRA.
- * Findings will be recorded in graphs, charts, percentages, and tables using databases and Microsoft software.



*please use one sheet per FAD

RMI FAD FISHING LOGSHEET									
DATE		CAPTAIN NAME		VESSEL NAME/TYPE			NO OF CREW		
FUEL USED (TYPE/GAL)		TIME IN AT FAD		TIME OUT OF FAD		RECORDER		FAD LOCATION ☐ Bridge ☐ Woja ☐ MBC Ajeltake ☐ Ajeltake ☐ Laura ☐ CMI Buoy	
Fishing Method ☐ Trolling ☐ Live Bait ☐ Float ☐ Drift ☐ Jigging ☐ Other _____									
SPECIES	PIECES	TOTAL WT (lbs)			SPECIES	PIECES	TOTAL WT (lbs)		
MARLIN		☐ 50-100 lbs	☐ 300-500 lbs		BONITO		☐ 0-25 lbs	☐ 50-75 lbs	
		☐ 100-300 lbs	☐ 500+ lbs				☐ 25-50 lbs	☐ 75+ lbs	
SAILFISH		☐ 0-50 lbs	☐ 100-200 lbs		WAHOO		☐ 0-25 lbs	☐ 50-75 lbs	
		☐ 50-100 lbs	☐ 200+ lbs				☐ 25-50 lbs	☐ 75+ lbs	
YELLOWFIN		☐ 0-50 lbs	☐ 100-200 lbs		MAHI		☐ 0-25 lbs	☐ 50-75 lbs	
		☐ 50-100 lbs	☐ 200+ lbs				☐ 25-50 lbs	☐ 75+ lbs	
BIGEYE		☐ 0-50 lbs	☐ 100-200 lbs		BARRACUDA		☐ 0-25 lbs	☐ 50-75 lbs	
		☐ 50-100 lbs	☐ 200+ lbs				☐ 25-50 lbs	☐ 75+ lbs	
DOGTTOOTH		☐ 0-50 lbs	☐ 100-200 lbs		RAINBOW		☐ 0-25 lbs	☐ 50-75 lbs	
		☐ 50-100 lbs	☐ 200+ lbs				☐ 25-50 lbs	☐ 75+ lbs	
SKIPJACK		☐ 0-50 lbs	☐ 100-200 lbs		OTHERS		☐ 0-25 lbs	☐ 50-75 lbs	
		☐ 50-100 lbs	☐ 200+ lbs				☐ 25-50 lbs	☐ 75+ lbs	

Results

This project strives to improve livelihood for the outer islands. Despite the limited feedbacks received from the local fishermen, the FADs Program has unequivocally promoted sustainable and safe fishing in remote communities as well as lowering fuel usage and promoting food security.

Ailuk	Likbo En	May, 2021	1200m	10.350782' N	169°886543'E	1.57 Miles	
Kili	Kili	Jun, 2021	1066m	05.39665'N	169°6673'E	1.28 Miles	
Ujae	Ujae	Sep, 2021	1247m	8 02. 7103'N	168 05. 5561'E	1.20 Miles	
Namu	Namu	Sep, 2021	1228m	8 54. 9875'N	165 43. 9816'E	1 Miles	
Namdrik	Namdrik	Jul, 2021	1200	5.365424'N	168.428302E	1.29 Miles	
Majuro	Bridge	Oct, 2021	1828	7.026029N	171.355546E	4 Miles	

RMI FAD Location

RMI FAD Location.csv



This map shows the location of all existing and lost anchored fish aggregating devices (aFAD) in the RMI waters. Please note that the sole purpose of these devices is to help local fishers in the remote communities including the urban centers to safe time and fuel, and be safe at sea. For more information, please visit MIMRA website at www.mimra.com



Conclusion

All data recorded from this project will be used to introduce and implement required modifications, monitor their success, and serve as a boon for remote communities with potential to be further enhanced for fishing activities in the Marshall Islands.



Acknowledgement

Special Thanks to:

- ❖ Benedict Yamamura (Mentor)
- ❖ Beven Wakefield (Colleague)
- ❖ All MIMRA members
- ❖ Local Fishermen
- ❖ MIMRA's Sponsors
- ❖ Local Governments
- ❖ RMI Government
- ❖ Pacific STEP-UP

