

Shrimp Hopper Potential to Reduce Bycatch Impact in Gulf of California

Purpose: Improve the efficiency of the shrimp fishery in the Gulf of California so that bycatch mortality is reduced, while supporting the fishermen and their local communities

Objectives:

- Install and test use of shrimp hoppers (sea water deck tank & sorting belts) in the Gulf of California shrimp trawl fishery
- Collect data on bycatch species, exposure time to air & deck temperature, and species mortality with/without hoppers
- Collect data on shrimp quality with hopper system
- Collect data on efficiency of catch sorting operations with/without hopper (sorting time & # of crew required)
- Evaluate & present data and demonstration video of hopper sea trials to fishing, government and NGO sectors

Shrimp Hopper Project Linked to Agreement Objective Number Three

Project Purpose: Improve the efficiency of the shrimp fishery in the Gulf of California so that bycatch mortality is reduced, while supporting the fishermen and their local communities

Agreement Objective Three: Improve the efficiency of the shrimp fishery in the Gulf of California so that the bycatch of other species is reduced, while supporting the fishermen and their local communities

Hopper Project introduces new approach to reduce impact of bycatch, reduce crew time & labor, maintain high shrimp quality

Shrimp Hopper Project Results & Products

Expected Results:

- Bycatch & shrimp catch kept in sea water tank vs. on deck
- Reduction in bycatch mortality (60% survival vs. 70% mortality)
- Reduction in time and labor needed to process & sort catch
- Enhanced or high shrimp quality

End Products:

- Evaluation on bycatch mortality with & without hoppers
- Demonstration Video on Operation of Shrimp Hopper
- Data on shrimp quality & catch sorting time with hoppers

Responsible Institutions & Project Participants

- Ocean Trust
- WWF Mexico
- Canainpesca Peñasco (Agreed to Provide Test Vessel)
- Ocean Garden Products
- Technical Advisor (Oregon Shrimp Fishery)
- Others...



Hopper on shore



Australian Hopper on deck

Shrimp Hopper Project Budget & Timeline

<u>Item</u>	<u>Budget</u>	<u>Activities Chronogram</u>
Hopper Gear System	\$10,000	Jan 06 – Planning Meeting,
Installation/Transportation	\$2,000	Hopper Transport/Installation
Technical Assistance	\$10,000	Feb/Mar – Shrimp Hopper Sea Trials
Monitoring/Observers	\$10,000	Video Documentation/Data Collection
Travel	\$5,000	Apr-Aug – Data Analysis/Reports
Meetings	\$3,000	Video Edit/Interim Results Meeting
Reports/Data Assessment	\$5,000	Sep-Oct – Full Shrimp Season Trials
Demonstration Video	<u>\$5,000</u>	Nov – Data Analysis/Report
Total	\$50,000	Dec – Final Results Meeting

Proposed Funding Source: USFWS Mexico Without Borders Program - (Proposal From Ocean Trust Submitted & Under Review by USFWS & SEMARNAT)