## 13.1. Appendix A: Survey

# SURVEY TO UNDERSTAND COMMUNITY PERCEPTION OF NO-TAKE MARINE RESERVES

This research is being conducted by TURFeffect, a group of master's students at the Bren School of Environmental Science & Management at the University of California, Santa Barbara, located in the United States of America.

The group is working with Comunidad y Biodiversidad A.C. (COBI) to create a framework for evaluating the success of no-take marine reserves in Mexico. The purpose of this survey is to fill information gaps about the communities that COBI has been working with the past 15 years. This information will be used to perform sample analyses on selected indicators that measure changes in the environment, economy and social structures after the implementation of no-take zones.

The participation at this survey is voluntary and the interviewee may decline to participate or withdraw from participating at any time, without any penalization.

Interviewer:	Date:	
Name of the community:		
	SECTION 1	
The following quest	ions are for demographics purposes	only.
Interviewee:	Gender:	Age:
Occupation:		
How long have you lived in this commo	unity?	
Level of education	Diver	
No formal education	Yes	
Primary school	No	
Secondary school		
Professional school		
College (Bachelor's degree)		
Othorn		

If the interviewee is a leader of the fishing community, proceed with the survey in <u>Section 2</u>; if the interviewee is a regular fisher/diver, jump to <u>Section 3</u>

## **SECTION 2**

The following questions should be answered only by leaders of fishing community.

Union Other. Please specif	y:	
2. Could you give us	the following information about the	no-take zones in this area?
Name of the area	Year of implementation	Reasoning for location
3. Who initiated the pro	ocess of creating the no-take zones?	Select all that apply and highlight the top 3
Community		
Cooperative		
Non-Governmental Academics	Organizations:	<del></del>
<del></del>	es:	
Government Agener	y:	

Who is involved in the management, monitoring and enforcement of the no-take zone? Select all that apply. Management Monitoring **Enforcement** Community Fishing Community Cooperative Non-Governmental Organizations: Contracted companies: Academics Government Agencies Other. Please specify: Who else should participate in these processes? 5. Are the no-take zones legally recognized by the government? Yes \_\_ No **5.1.** If they are not recognized, has the community already started the process to get its no-take zones recognized? **5.2.** If the no-take zone is not recognized and the community did not start the process yet, are they willing to do it? 6. Is there a document or guide that explicitly presents the information about the management of the non-fishing zone? \_\_ Yes \_\_ No

\_\_ I don't know

7. How are the local fisheries managed? Select all that apply.	
TURF:	
Permits:	
Quotas (whole fishery):	<u>-</u>
Individual Quota:	
Open Access:	
Other. Please specify:	
8. How is the enforcement done? Select all that apply  Sighting from land  Patrol boats  VMS (Vessel Monitoring System)  Other: Please specify.	
<ul> <li>9. Does your organization have rules about when, how or where to fish, that does reconversely.</li> <li>Yes</li> <li>No</li> <li>I don't know</li> </ul>	not comes from

	Before/at the implementation	Nowadays	Reason
10. Number of fishers in the community			

11. Would you say that an unusual natural event of "great proportions", such as a hurricane, El Niño, hypoxia or related events, occurred in the area of the reserve since the last monitoring event? If yes, what was the event?

### **SECTION 3**

If the interviewee is just a Fisher or other person involved with fisheries (e.g. fish buyer or seller), then the survey should start here.

12. Who participates	on the decisions for the no-take zo	ones? Select all that apply.	
Community			
Fishing Commun	ity		
Cooperative			
Non-Government	al Organizations:		
Academics			
Government Agen	ncies.:		
Others. Please, sp	ecify:		
<b>12.1</b> Do yo should participate in		involved in the decision making process	? Who else
Very good Good Moderate Bad Very Bad	think the vigilance and enforcement of the vigilance and enforceme	ent works in this community?  (by illegal gear, effort, area) inside your fi	ishing area?
	By people from the community	By people from outside the community	
Inside the NTZs			
Outside the NTZs			
Increased Stayed the same Decreased	nentation of the reserve, has govern		
Strongly disagree			

17. Enforcement works better when the fishing group participates.

Strongly agree Agree Not sure Disagree Strongly disagree				
	Before/at the implementation	Nowa	adays	Reason
18. How would you rate the level of alternative economic opportunities?	Very High High Moderate Restricted Low Null	Very I High Modes Restrict Low Null	rate	
19. What is the level of illegal fishing in the region?	Very High High Moderate Restricted Low Null	Very I High Modes Restrict Low Null	rate	
20. How would you ans	wer the following question	ons?		
I fish inside the NTZs		Never Sometin Always		
Other fishers from the co	ommunity fish inside the	Never SometinAlways		
Fishers from nearby communities fish inside the NTZs			Never Sometin Always	

**21.** What do you think about the implementation of the no-take reserve with respect to:

**21.1.** The environment

Indicator	Improved	Stable	Worsened	Reason for change
Species richness				
Fish length				
Density				
Biomass				
Abundance of predators				

### 21.2. The communities' economy

Indicator	Improved	Stable	Worsened	Reason for change
Total landings				
Managed species landings				
Fisheries revenue				
Alternative economic activities				

activities					
21.3.	Imp	ed the same	managemen	ıt	
22. What is the Positive	e general	impact of the 1	reserves in tl	ne community?	
None Negative					
<b>23.</b> Do you thin	ık the no	-take zone is et	ffective?		
Yes No					
I don't know	I				

**24.** Do you think reserves should be eliminated, modified or stay the same?

Zone	Action	Why	How
	Eliminate Keep the same Modify		
	Eliminate Keep the same Modify		
	Eliminate Keep the same Modify		
	Eliminate Keep the same Modify		
	Eliminate Keep the same Modify		

**25.** Would like to add any comment?