# 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.

Date:	
SECTION 1	
e for demographics purposes on	ly.
Gender:	Age:
Diver	
Yes No	
	SECTION 1  e for demographics purposes on  Gender:  Diver  Yes  No

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.

Cooperative Association Union Other. Please specify		ow? How many of each type of organization?	
Name of the area	Year of implementation	Reasoning for location	
Community Cooperative Non-Governmental C Academics Government Agencies	Drganizations:		etors.

apply.	1	1	
	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 b  Yes No  5.1. If they are not recognized, has the recognized?			ess to get its no-ta
<b>5.2.</b> If the no-take zone is not recogn willing to do it?	ized and the comm	nunity did not sta	art the process yet,
6. Is there a document or guide that explication non-fishing zone?  Yes  No  I don't know	citly presents the i	information abou	ut the managemer

Who is involved in the management, monitoring and enforcement of the no-take zone? Select all that

4.

7. How are the local fisher.	•	** *		
TURF: Permits:				
Quotas (whole fishery): _				
Individual Quota:				
Open Access:				
Other. Please specify:				
<ul> <li>8. How is the enforcement Sighting from land Patrol boats VMS (Vessel Monitoring Other: Please specify.</li> <li>9. Does your organization</li> <li>CONAPESCA or other gove</li> <li>Yes</li> <li>No</li> <li>I don't know</li> </ul>	s System) on have rules abou		where to fish, that does not cor	nes from
	Before/at the implementation	Nowadays	Reason	
<b>0</b> . Number of fishers in the				

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?

community

#### **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.

<b>12.</b> Who participates Community	on the decisions for the no-take zo	ones? Select all that apply.	
Fishing Communi	ity		
Cooperative	ity		
	al Organizations:		
Academics	ar Organizations.		
	ncies.:		
	ecify:		
		involved in the decision making process?	) Who else
should participate in		involved in the decision making process:	WHO CISC
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 fis	shing area
	By people from the community	By people from outside the community	
Inside the NTZs			
Outside the NTZs			
15. After the implent Increased Stayed the same Decreased	nentation of the reserve, has govern	nment enforcement:	
	rks better when the government par	rticipates.	
Strongly agree			
Agree			
Not sure			
Disagree			
Strongly disagree			

17. Enforcement works  Strongly agree Agree Not sure Disagree Strongly disagree	better when the fishing	group parti	cipates.	
	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 Moden 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 community fish inside the NTZs			Never Sometin Always	
Fishers from nearby communities fish inside the NTZs			Never Sometin Always	

21.	What do	vou think about th	e 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				

21.3.	Local governance and management Improved Stayed the same Worsened
22. What is the Positive None Negative	e general impact of the reserves in the community?
23. Do you thin  Yes  No I don't know	nk the no-take zone is effective?

<b>24.</b> Do you think reserves should be eliminated, modified or stay the same?	
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