

Design and implement a biological-fishery sampling program.

**Proyecto de Mejora Pesquera (FIP)
Mexico Baja California Peninsula Ocean whitefish - trap/handline**

Systematize biometric data and digitize fishing data

SmartFish Rescate de Valor AC
December 2024

Prepared by:
Yuliesky Garcés Rodríguez

SmartFish AC
Márquez de León No. 2395, Col. Centro
La Paz, Baja California Sur, México.
C.P. 23000

A meeting was held with the new cooperatives that joined the FIP “ Mexico Baja California Peninsula finfish - trap/handline | Fishery Progress “ to design and implement biological and fishery monitoring in the whitefish fishery. Biological monitoring was designed to be carried out in situ in the fishing areas corresponding to the cooperatives and in the arrival area of the fishermen (Fig. 1). Sampling will be carried out by the fishery technicians of each fishing cooperative and will be carried out monthly during the fishing season.

Monitoring is designed to collect samples from different vessels and biological data (total length, weight, etc.), species associated with the fishery, and fishery data will be recorded, in order to calculate the Catch per unit of effort in the whitefish fishery for the Baja California Peninsula.

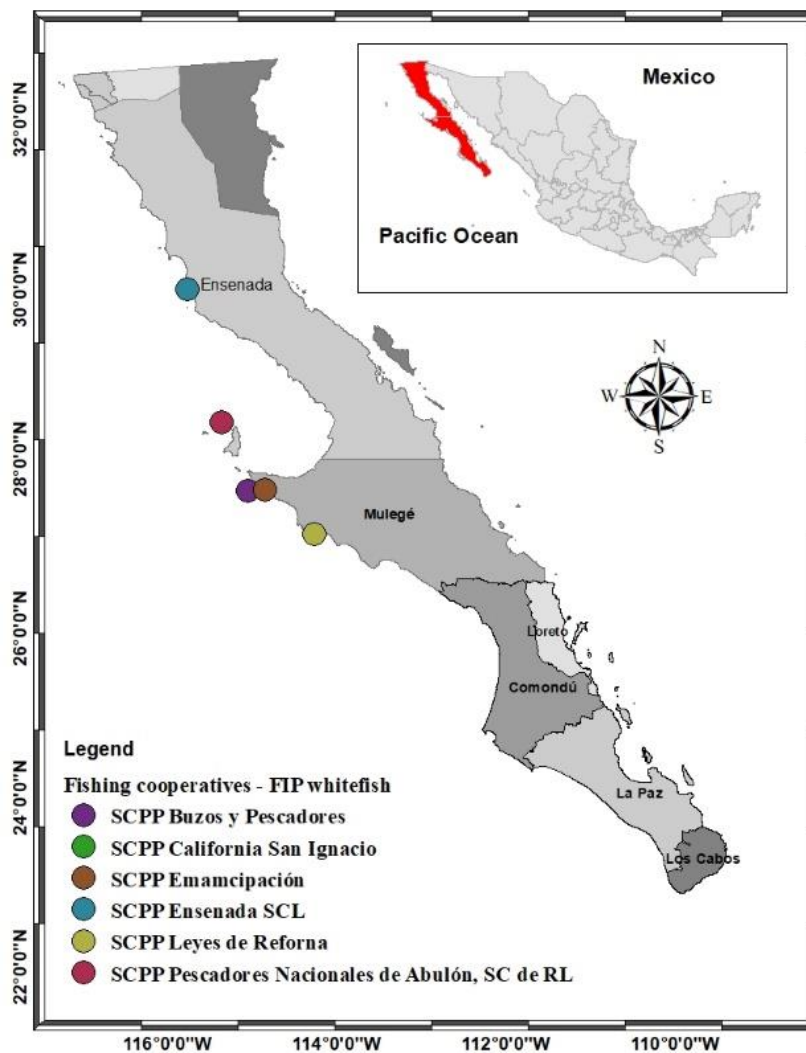


Figure 1. Location of the area where the white FIP is implemented and the cooperatives participating in the project.

On the other hand, training was provided to the fishing technicians of each cooperative on the NADIR platform (Plenumsoft, marina), with the aim that the technicians digitally record the daily catches of the fishing cooperative (Fig. 2).



Figure 2. Meeting with the staff responsible for carrying out biological monitoring and recording fishery data in the new cooperatives that join the FIP.

Results.

Cooperatives are already digitally recording catch data on the NADIR platform and implementing biological monitoring in the whitefish fishery (Fig. 3).

PESQUERÍA BLANCO – FIP PENINSULA B.C.				Fecha:	
Cooperativa	LR 014	Panga (nombre)	LR 6 A	# de tripulantes	3
Arte de Pesca (anzuelo, trampa)	ANZUELO	Cantidad de anzuelo o trampa usados (cuantos)	60	Tiempo de Pesca Estimado (hora)	5
Carnada usada (especie)	SARDINA/BOJITA	Cantidad de Carnada (kg)	20 KG.	Costo de carnada (\$)	
Capt. Total (kg)	129 KG.	Precio venta (kg)		Gasolina viaje (Lt)	
Especies Asociada	-	# de individuos (cantidad)		Gasto alimento (\$)	

#	Nombre común	Longitud total (cm)	Peso (Kg)	Sexo	Observaciones (Entero, eviscerado, etc.)
1	BLANCO + QUEVEDO	46	1.055		EVICERADO 100%
2		46	1.145		
3		43	860		
4		42	770		
5		42	770		
6		43	790		
7		43	925		
8		42	730		
9		47	1.050		
10		40	695		
11		43	730		
12		42	820		
13		48	1.265		
14		52	1.580		
15		46	970		
16		45	1.120		
17		41	720		

Figure 3. Example of a record in the fishing logbook made on a vessel in the Leyes de Reforma fishing cooperative.

Annex 1. Record of daily catches on the Nadir platform.

REPORTE DE REGISTRO DE PESCA

Fecha: jueves, 07 noviembre 2024

Hora: 02:41 p.m.

Nombre: Todos Fecha: 11/09/2024 a 07/11/2024

Folio	Nombre de la embarcación	Fecha de Registro	Fecha Inicio	Fecha Fin	Tripulante	Especie	Presentación	Volumen
12MUICR6Xg9k	LR 106	12/09/2024	11/09/2024	11/09/2024	JAIME GONZALEZ VILLAVICENCIO, CRISTIAN ENRIQUE FARIAS ROMERO	Blanquillo	Eviscerado	0.10
12nX3CuT_KBE	LR 102	12/09/2024	12/09/2024	12/09/2024	GUSTAVO ARCE VILLAVICENCIO, VICENTE AGUILAR VILLAVICENCIO, MANUEL LIZARDO AGUILAR VILLAVICENCIO	Pulpo Paton	Eviscerado	0.10
12f18tmahD9E	LR 108	12/09/2024	12/09/2024	12/09/2024	ARTEMIO MURILLO CRUZ, SERGIO GONZALEZ VILLAVICENCIO, PEDRO ANTONIO GONZALEZ VEGA	Rocote Lomo Prieto	Eviscerado	0.10
125MqnJs4UNU	LR 100	12/09/2024	11/09/2024	11/09/2024	CARLOS ALBERTO MURILLO CAMACHO, JESUS ALBERTO MURILLO CRUZ	Blanquillo	Eviscerado	72.00
12T06ee7viZk	LR 98	04/10/2024	03/10/2024	03/10/2024	MARTIN ROMERO VILLAVICENCIO, BENITO SANTIAGO VILLAVICEN RODRIGUEZ, GABRIEL ARCANGEL VILLAVICEN VILLAVICENCIO	Blanquillo	Eviscerado	51.00
124Eru9QIEq0	LR 100	04/10/2024	03/10/2024	03/10/2024	ABELARDO MURILLO GONZALEZ, JAZZIEL RINCON VILLAVICENCIO	Blanquillo	Eviscerado	83.00
12aNjWerR_Kk	LR 103	04/10/2024	03/10/2024	03/10/2024	FRANCISCO JAVIER ROMERO VILLAVICENCIO, IVAN GONZALEZ OSUNA, RAMON ENRIQUE CAMACHO ROJAS	Blanquillo	Eviscerado	20.00
12Rgwj7dtyPk	LR 100	05/10/2024	04/10/2024	04/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	31.38
12b-ewXVqkb0	LR 102	05/10/2024	04/10/2024	04/10/2024	ARTEMIO MURILLO CRUZ, JESUS ALBERTO MURILLO CRUZ	Blanquillo	Eviscerado	65.00
12heERnOHF5E	LR 100	08/10/2024	07/10/2024	07/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	108.00
123Xp-5D4jFE	LR 100	09/10/2024	08/10/2024	08/10/2024	ABELARDO MURILLO GONZALEZ, JAZZIEL RINCON VILLAVICENCIO	Blanquillo	Eviscerado	64.00
12n-C4omHKFU	LR 102	09/10/2024	08/10/2024	08/10/2024	JESUS ALBERTO MURILLO CRUZ, ARTEMIO MURILLO CRUZ	Blanquillo	Eviscerado	85.00
12KR_sH4oW0E	LR 100	10/10/2024	09/10/2024	09/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	116.00

12ejGqJkNJoE	LR 102	10/10/2024	09/10/2024	09/10/2024	JESUS ALBERTO MURILLO CRUZ, ARTEMIO MURILLO CRUZ	Blanquillo	Eviscerado	70.00
1209yk088uKE	LR 62	10/10/2024	10/10/2024	10/10/2024	JULIO MARQUEZ CANEDO, PEDRO ANTONIO GONZALEZ VEGA	Vieja	Eviscerado	0.10
12rG9TlhwgZE	LR 109	10/10/2024	10/10/2024	10/10/2024	RIGOBERTO ROBLES VILLAVICENCIO, ROMEO LIERA ARCE	Verdillo, Cabrilla de Arena	Eviscerado	0.10
12rG9TlhwgZE	LR 109	10/10/2024	10/10/2024	10/10/2024	RIGOBERTO ROBLES VILLAVICENCIO, ROMEO LIERA ARCE	Vieja	Eviscerado	0.10
12gEqUrxQmN0	LR 100	10/10/2024	10/10/2024	10/10/2024	ABELARDO MURILLO GONZALEZ, JAZZIEL RINCON VILLAVICENCIO	Blanquillo	Eviscerado	115.00
12DN_D7EB3fU	LR 102	10/10/2024	10/10/2024	10/10/2024	ARTEMIO MURILLO CRUZ, IVAN ISIDRO MURILLO CRUZ, JESUS ALBERTO MURILLO CRUZ	Blanquillo	Eviscerado	120.00
12HBfo-v5bc0	LR 100	11/10/2024	11/10/2024	11/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	118.00
12dA0OwjBZnU	LR 102	11/10/2024	11/10/2024	11/10/2024	JESUS ALBERTO MURILLO CRUZ, IVAN ISIDRO MURILLO CRUZ, ARTEMIO MURILLO CRUZ	Blanquillo	Eviscerado	165.00
12TBsGeqaRaU	LR 100	21/10/2024	21/10/2024	21/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	238.00
12BSERYZ3U-E	LR 100	21/10/2024	21/10/2024	21/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	238.00
12tmHUalehqE	LR 100	22/10/2024	21/10/2024	21/10/2024	ABELARDO MURILLO GONZALEZ, JAZZIEL RINCON VILLAVICENCIO	Blanquillo	Eviscerado	238.00
12s5WsePhGsk	LR 56	22/10/2024	22/10/2024	22/10/2024	Sin Tripulantes	Vieja	Eviscerado	1.00
12L1nUYXjH-k	LR 100	22/10/2024	22/10/2024	22/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	224.00
12rv0sAFGrWE	LR 100	23/10/2024	23/10/2024	23/10/2024	JAZZIEL RINCON VILLAVICENCIO, ABELARDO MURILLO GONZALEZ	Blanquillo	Eviscerado	248.00
Total								2,470.98