

Supplemental Information

Figure S1. Southern California Commercial Passenger Fishing Vessel paper logbook.



State of California – Department of Fish and Wildlife
COMMERCIAL PASSENGER FISHING VESSEL LOG
 DFW 195B (Rev. 02/13)

SERIAL # **S** 833151

SOUTHERN CALIFORNIA

VESSEL NAME _____ PORT OF LANDING _____

VESSEL ID NUMBER _____

MONTH _____ DAY _____ YEAR _____

PORT CODE _____

TRIP TYPE

Multi-Day

Single Day

Non-Paying

TARGET SPECIES

TUNA

SHARK

ROCKFISHES

LINGCOD

SALMON

OTHER

FISHING METHOD

TROLLING

MOOCHING

ANCHOVIES

DRIFTING

DIVING

OTHER

BAIT

ANCHOVIES

SARDINES

SQUID

OTHER

LIVE

DEAD

No fishing activities for the month of: _____

DEPARTURE TIME _____

RETURN TIME _____

HOURS & MINUTES FISHED _____

NUMBER OF FISHERS _____

BLOCK WHERE MOST FISH CAUGHT _____

DEPTH (FEET) _____

SEA SURFACE TEMP °F _____

SPECIES	NUMBER KEPT	NUMBER THROWN BACK	LOST TO SEA LIONS	SPECIES	NUMBER KEPT	NUMBER THROWN BACK	LOST TO SEA LIONS
BARRED 278 SAND BASS				ALBACORE 005			
CALIFORNIA 260 SCORPIONFISH				BARRACUDA 130			
CABEZON 261				BLUEFIN TUNA 004			
HALFMOON 478				DOLPHIN FISH 481			
KELP BASS 277				PACIFIC BONITO 003			
LINGCOD 195				PACIFIC 051 MACKEREL			
OCEAN 490 WHITEFISH				SKIP JACK 002			
SHEEPHEAD 145				WHITE 435 CROAKER			
BLUE 665 ROCKFISH				WHITE 400 SEABASS			
BOCACCIO 253 ROCKFISH				YELLOWFIN TUNA 001			
CANARY 247 ROCKFISH				YELLOWTAIL 040			
COPPER 655 ROCKFISH				CALIFORNIA HALIBUT 222			
COWCOD 245 ROCKFISH				SANDDAB 225			
GOPHER 263 ROCKFISH				LOBSTER 820			
WIDOW 269 ROCKFISH				ROCK 718 SCALLOP			
YELLOWEYE 265 ROCKFISH							
UNSPECIFIED 250 ROCKFISH							

DESCENDING DEVICE? YES NO

BIRD INTERACTION? YES NO

OPERATOR'S NAME (PRINT) _____

OPERATOR'S SIGNATURE _____

Number of crew who fished _____

Number of fish caught by crew _____

ORIGINAL: DEPARTMENT OF FISH AND WILDLIFE

DUPLICATE: OPERATOR'S COPY

Figure S2. Central and Northern California Commercial Passenger Fishing Vessel paper logbook.

State of California – Department of Fish and Wildlife
COMMERCIAL PASSENGER FISHING VESSEL LOG
 DFW 195A (REV. 01/16)

CENTRAL AND NORTHERN CALIFORNIA SERIAL # **N 648651**

VESSEL NAME _____ PORT OF LANDING _____

VESSEL ID NUMBER _____ PORT CODE _____ TARGET SPECIES _____ FISHING METHOD _____ BAIT _____ LIVE _____ DEAD _____

MONTH _____ DAY _____ YEAR _____ TRIP TYPE _____

Multi-Day
 Single Day
 Non-Paying

SALMON
 ROCKFISHES
 LINGCOD
 STRIPED BASS
 STURGEON
 SHARKS
 TUNA
 OTHER

TROLLING
 MOOCHING
 ANCHORED
 DRIFTING
 DIVING
 OTHER

ANCHOVIES _____
 SARDINES _____
 SQUID _____
 OTHER _____

DESCENDING DEVICE? YES NO BIRD INTERACTION? YES NO

No fishing activities for the month of: _____

DEPARTURE TIME _____ RETURN TIME _____ HOURS & MINUTES FISHED _____ NUMBER OF FISHERS _____ BLOCK WHERE MOST FISH CAUGHT _____ DEPTH (FEET) _____ SEA SURFACE TEMP °F _____

SPECIES	NUMBER KEPT	NUMBER THROWN BACK	LOST TO SEA LIONS	SPECIES	NUMBER KEPT	NUMBER THROWN BACK	LOST TO SEA LIONS
CHINOOK SALMON 302				ALBACORE 005			
COHO 304 SALMON				PACIFIC 051 MACKEREL			
LINGCOD 195				CALIFORNIA HALIBUT 222			
CABEZON 261				SANDDAB 225			
KELP 290 GREENLING				OTHER 230 FLATFISH			
BLACK 252 ROCKFISH				STRIPED BASS 335			
BLUE 665 ROCKFISH				GREEN 471 STURGEON			
BOCACCIO ROCKFISH 253				WHITE 472 STURGEON			
CANARY 247 ROCKFISH				WHITE 435 CROAKER			
COPPER 665 ROCKFISH				LEOPARD SHARK 153			
COWCOD 245 ROCKFISH				DUNGENESS CRAB 800			
GOPHER 263 ROCKFISH				ROCK 718 SCALLOP			
WIDOW 269 ROCKFISH							
YELLOWEYE 265 ROCKFISH							
UNSPECIFIED ROCKFISH 250							

OPERATOR'S NAME (PRINT) _____ OPERATOR'S SIGNATURE _____ Number of crew who fished _____ Number of fish caught by crew _____

ORIGINAL: DEPARTMENT OF FISH AND WILDLIFE DUPLICATE: OPERATOR'S COPY

Figure S3. Commercial Passenger Fishing Vessel electronic logbook entry fields.

Create Log

Pre Departure Info

Log Form Type
 North South

Create Date 12/11/2023 at 1:53 pm

Log Date

prev () December 2023 next ()

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	29	30	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31	1	2	3	4	5	6

Vessel ID

Port Code

List of Ports (/marine/logs/cpv/app/help/ports)

Port Name

Operator Name

No Fishing Activity For The Month

Depth (ft) (recorded as a whole number)

Sea Surface Temp *F (recorded as a whole number)

Trip Info

Trip Type
 Multi-Day
 Single-Day

This is a Non-Paying Trip
 Non-Paying

Target Species
 Tuna
 Sharks
 Rockfishes
 Lingcod
 Salmon
 Other

Fishing Method
 Trolling
 Mooring
 Anchored
 Drifting
 Diving
 Other

Bait	Live	Dead
Anchovies	<input type="checkbox"/>	<input type="checkbox"/>
Sardines	<input type="checkbox"/>	<input type="checkbox"/>
Squid	<input type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>

Species	Number Kept	Number Thrown Back	Lost to Sea Lions	Remove
				<input type="button" value="Remove"/>

Number Kept, Lost and Released Must Be Zero or Greater. Invalid Entries Will Not Be Saved.

+ Add New Catch

Descending Device?
 Yes No

Bird Interaction?
 Yes No

Post Trip Info

Departure Time
 HH : MM

Return Time
 HH : MM

Hours Fished
 00 : 00

Block Where Most Fishing Occurred

North Fishing Blocks (/MarineLogs/Content/Cpv/images/north_fishing_blocks.jpg)
 Central Fishing Blocks (/MarineLogs/Content/Cpv/images/central_fishing_blocks.jpg)
 South Fishing Blocks (/MarineLogs/Content/Cpv/images/south_fishing_blocks.jpg)

Number of Fishers

Number of Crew Who Fished

Number of Fish Caught by Crew

Figure S4. Number of paper and electronic logs reporting depredation, and total number of Commercial Passenger Fishing Vessel logbooks received annually, 2015 (implementation of electronic logbook) to 2022 (top); total number of logbooks and number of logbooks (paper and electronic combined) reporting depredation events, 1994 to 2022 (middle); annual percentage of logbooks reporting depredation events, 1994 to 2022 (bottom).

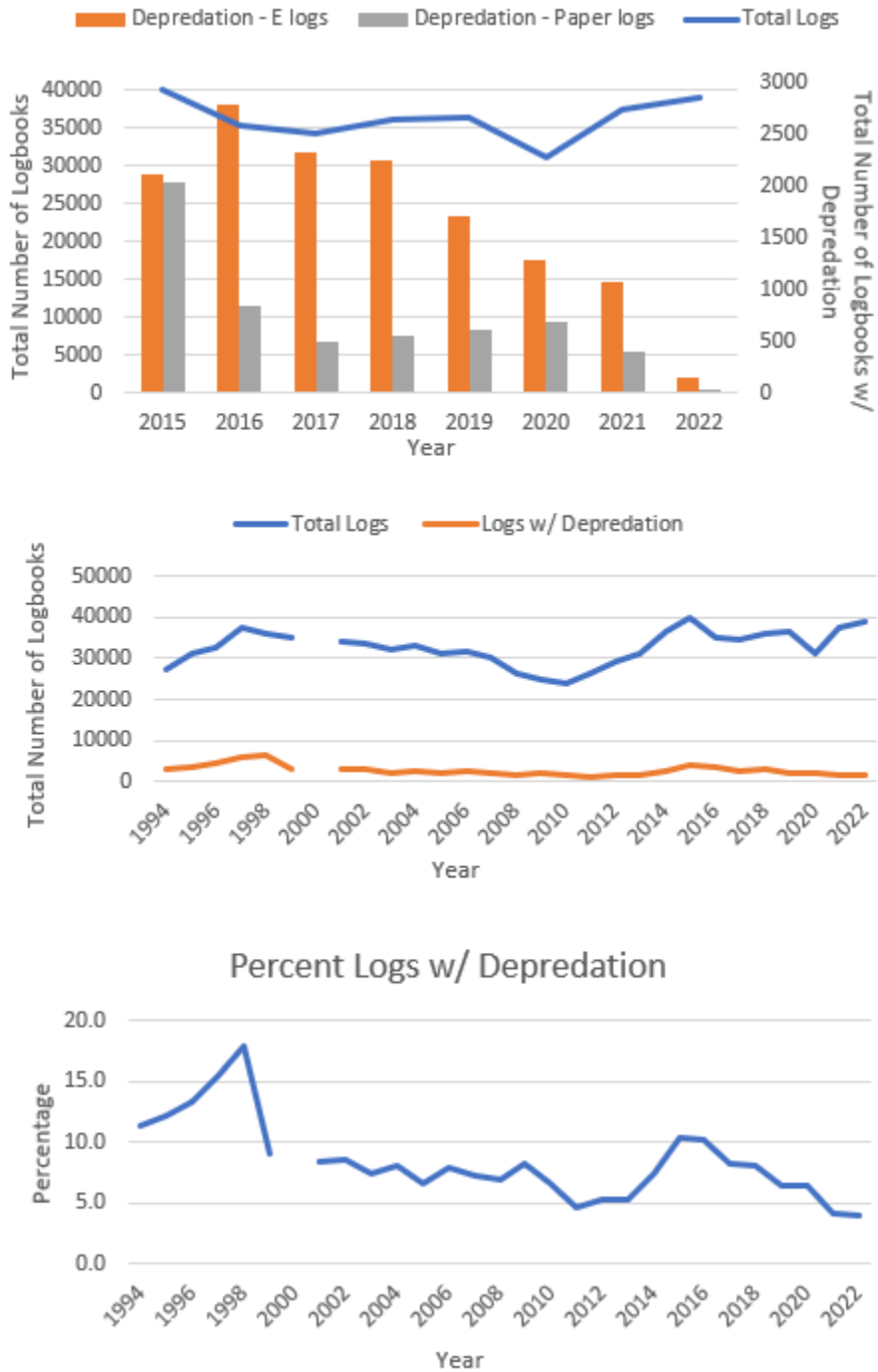


Figure S5. Map of coastal California counties by area (southern, central, and northern, defined by California Recreational Fishing Survey [CRFS] district) and line from Point Conception due west, separating the Southern California Bight from central and northern waters.

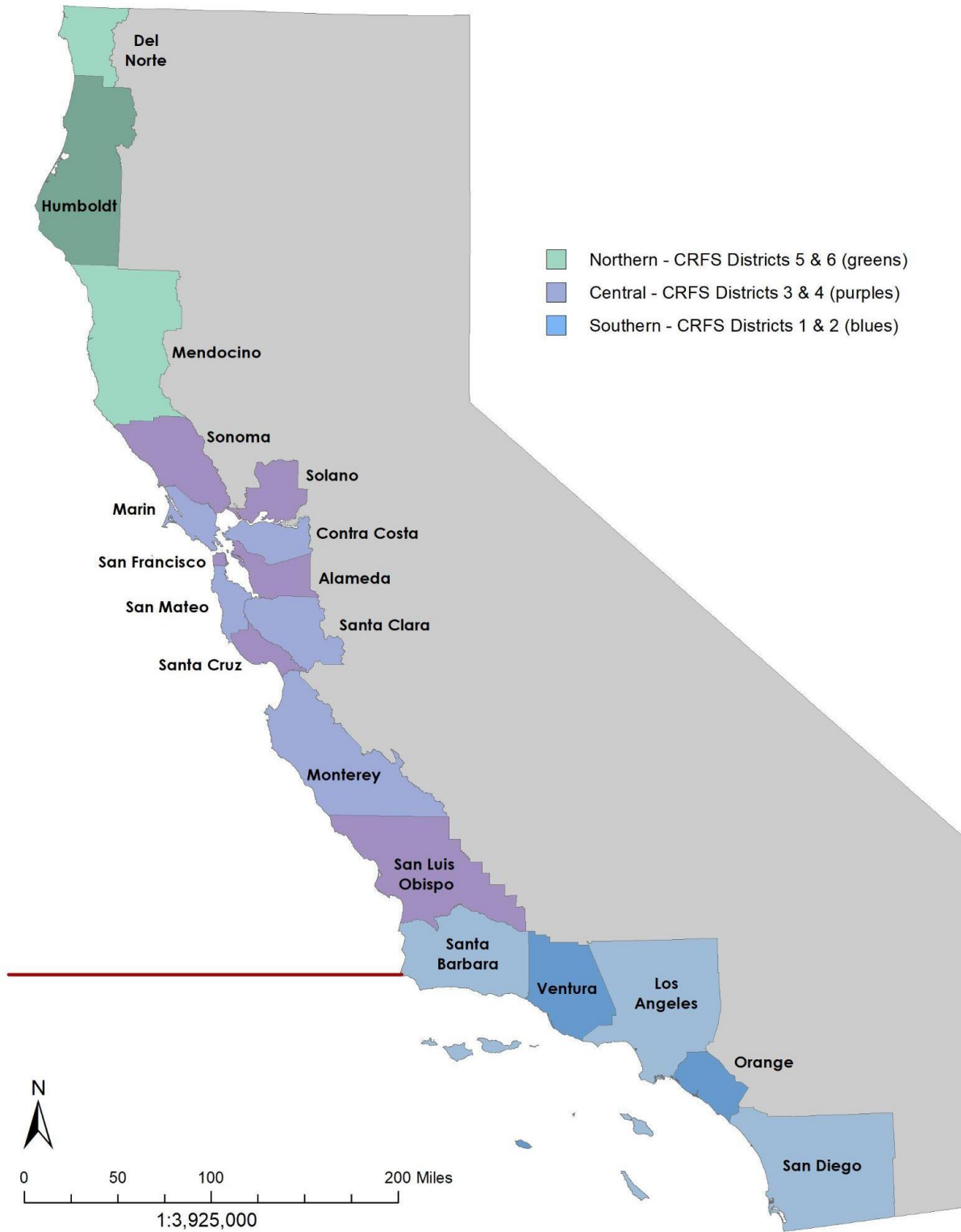


Figure S6. Uniform Quantile-Quantile (QQ) (left panel) and residuals against the predicted value plot of the DHARMA calculated residuals for the number of fish taken by pinnipeds (right panel).

