

# HMS MT review of CA/OR drift gillnet alternatives

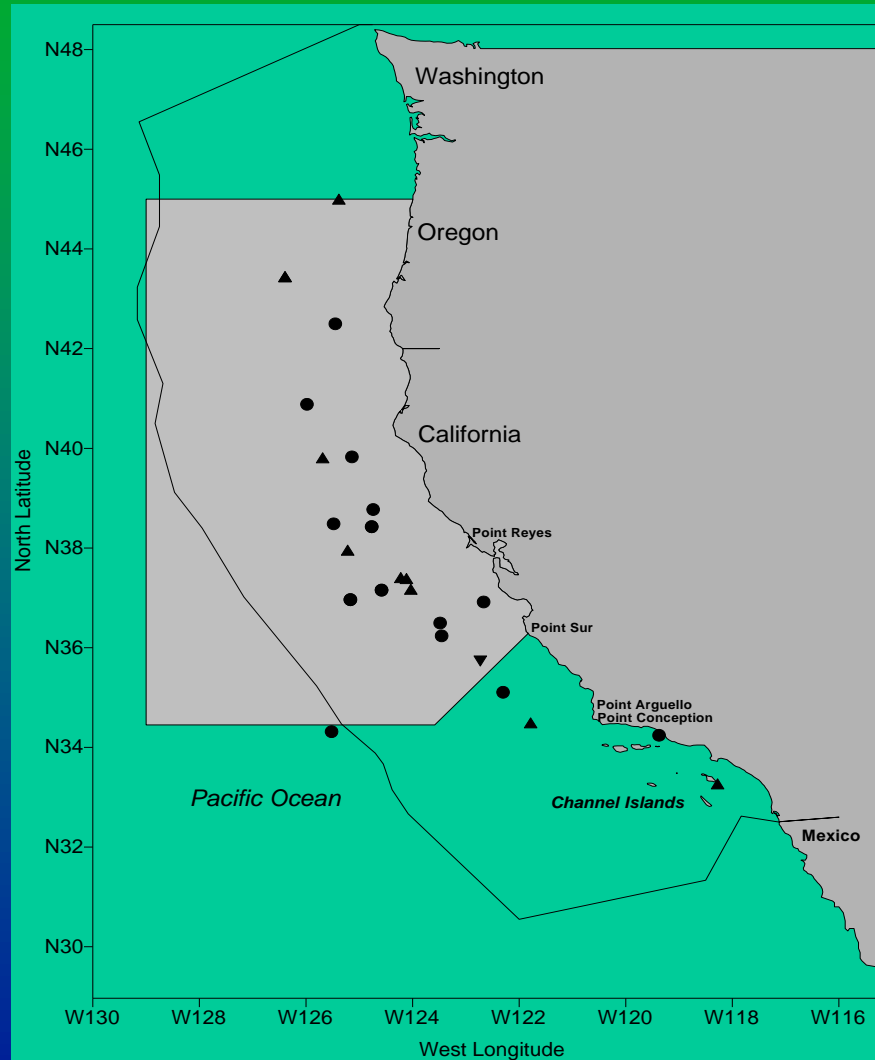
Presentation by HMS MT to the Pacific  
Fisheries Management Council

November 3, 2005

San Diego, CA

# Current DGN closure

[August 15th to November 15th]



# Estimated incidental take with closure in place

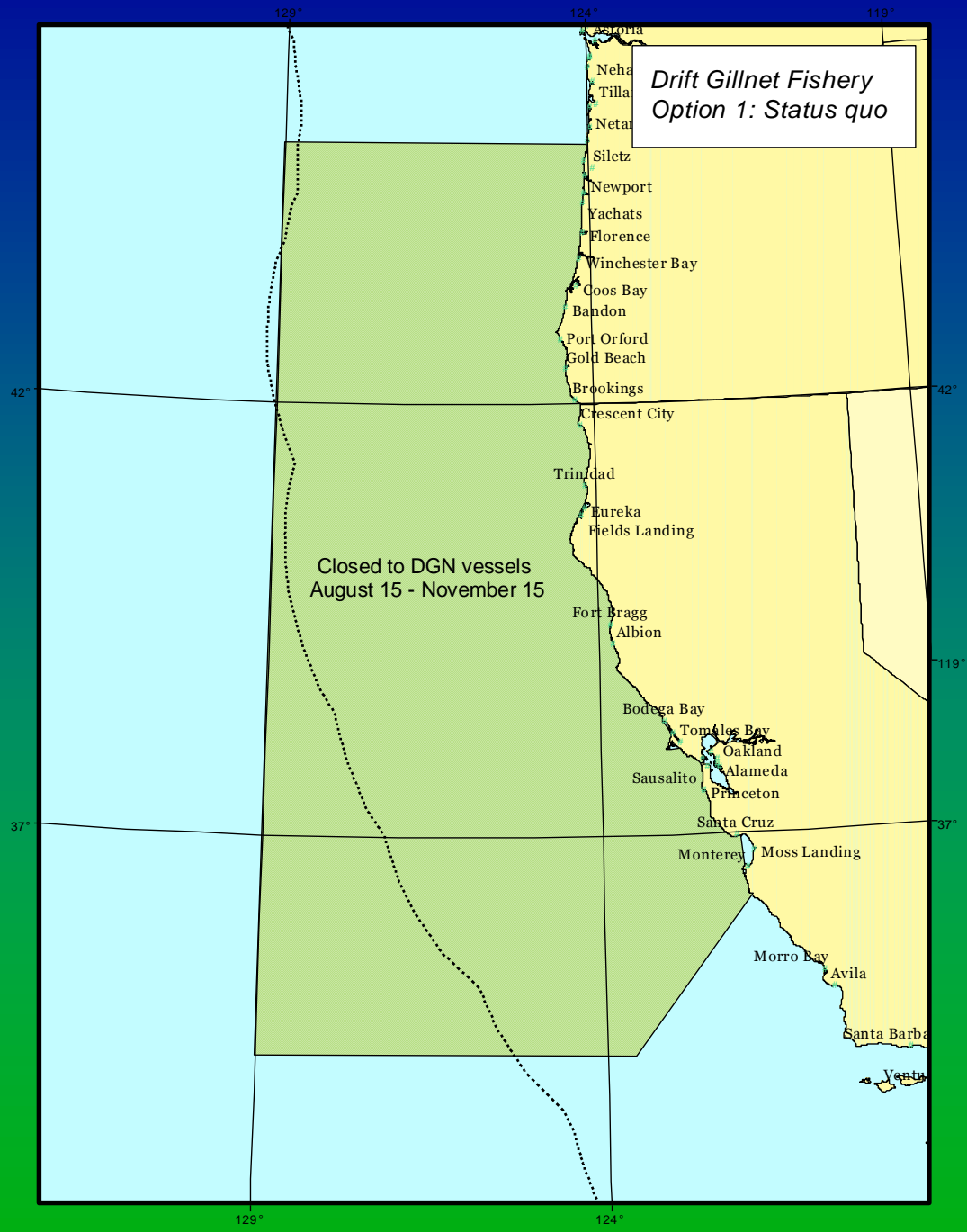
Species	Entanglements	Mortalities	Conditions
Fin whale	4 in 3 years	2 in 3 years	
Humpback whale	4 in 3 years	0	
Sperm whale	4 in 3 years	2 in 3 years	
Green turtle	4	1	SSTs like Nov 1999
Leatherback turtles	3	2	
Loggerhead turtles	5	2	Only in El Nino years
Olive ridley turtles	4	1	SSTs like Nov 1999

# What new information is available?

- Better understanding of two Pacific leatherbacks populations
- Additional information on Western Pacific nesting beaches
- More refined estimates of anticipated takes by areas

# Alternatives

	<b>Changes to Fishing Area</b>	EFP	Amend
1	Status quo – keep current closure in place		
2	a-c Open portions of the currently closed area	X	
3	a-d Modify or remove current closure	X	X
	<b>Turtle Conservation Measures</b>		
4	Implement a mortality limit for leatherback sea turtle bycatch (“turtle cap”)	X	
5	Impose a set limit for the EFP	X	
6	Impose both a turtle cap and set limit	X	
	<b>Long-term Management</b>		
7	Plan amendment for long-term DGN effort limitation program		X

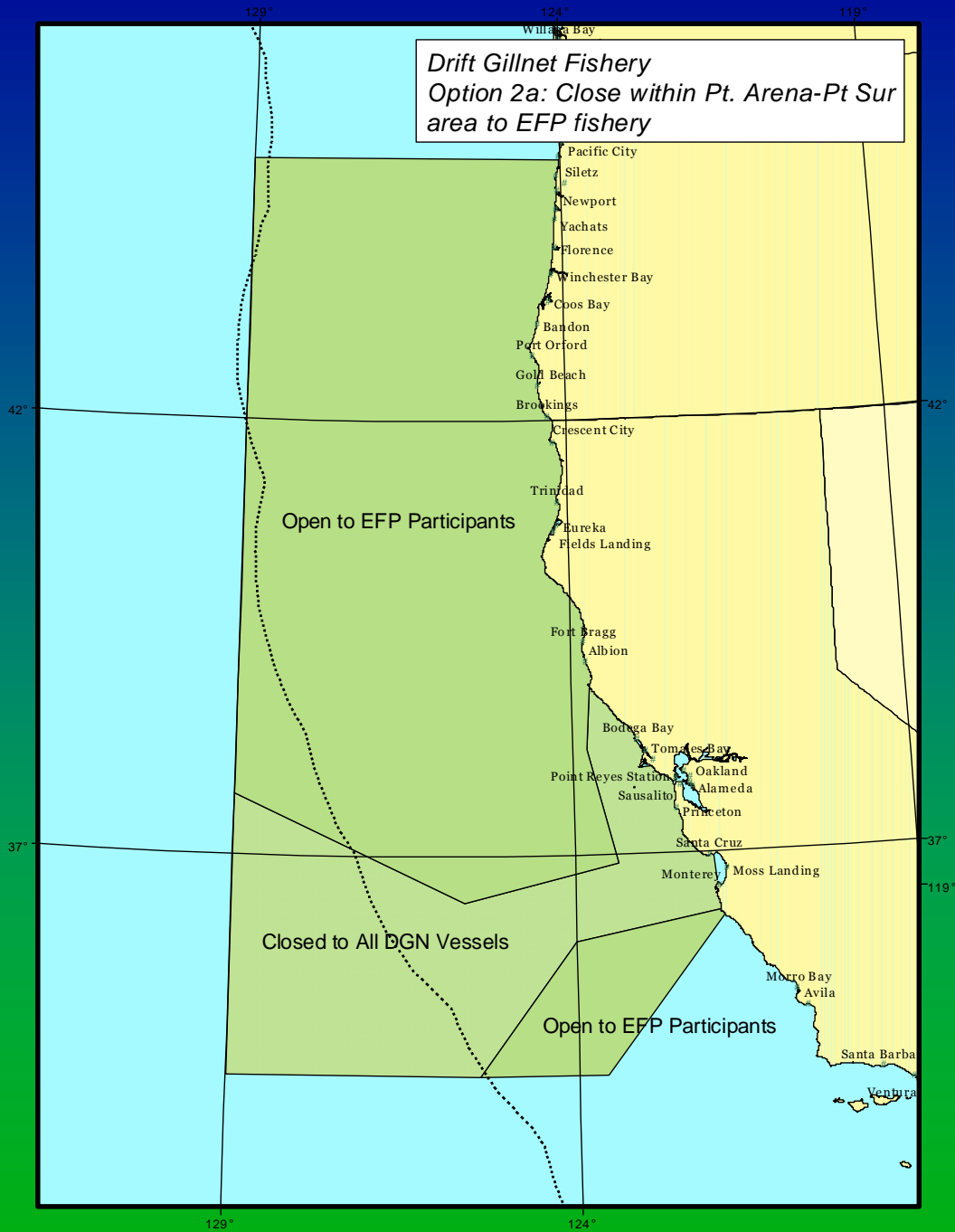


Drift Gillnet Fishery  
Option 1: Status quo

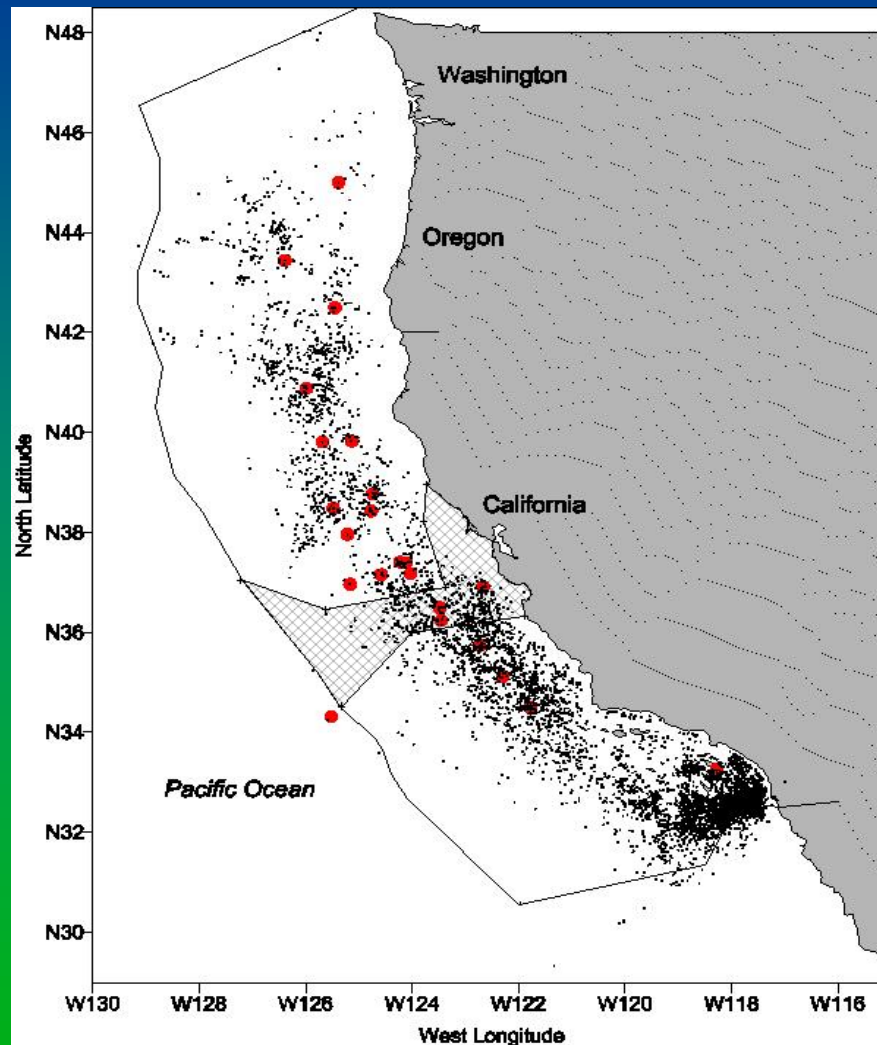
Closed to DGN vessels  
August 15 - November 15

- Astoria
- Nehalem
- Tillamook
- Netarts
- Siletz
- Newport
- Yachats
- Florence
- Winchester Bay
- Coos Bay
- Bandon
- Port Orford
- Gold Beach
- Brookings
- Crescent City
- Trinidad
- Eureka
- Fields Landing
- Fort Bragg
- Albion
- Bodega Bay
- Tomales Bay
- Oakland
- Alameda
- Sausalito
- Princeton
- Santa Cruz
- Monterey
- Moss Landing
- Morro Bay
- Avila
- Santa Barbara
- Ventura

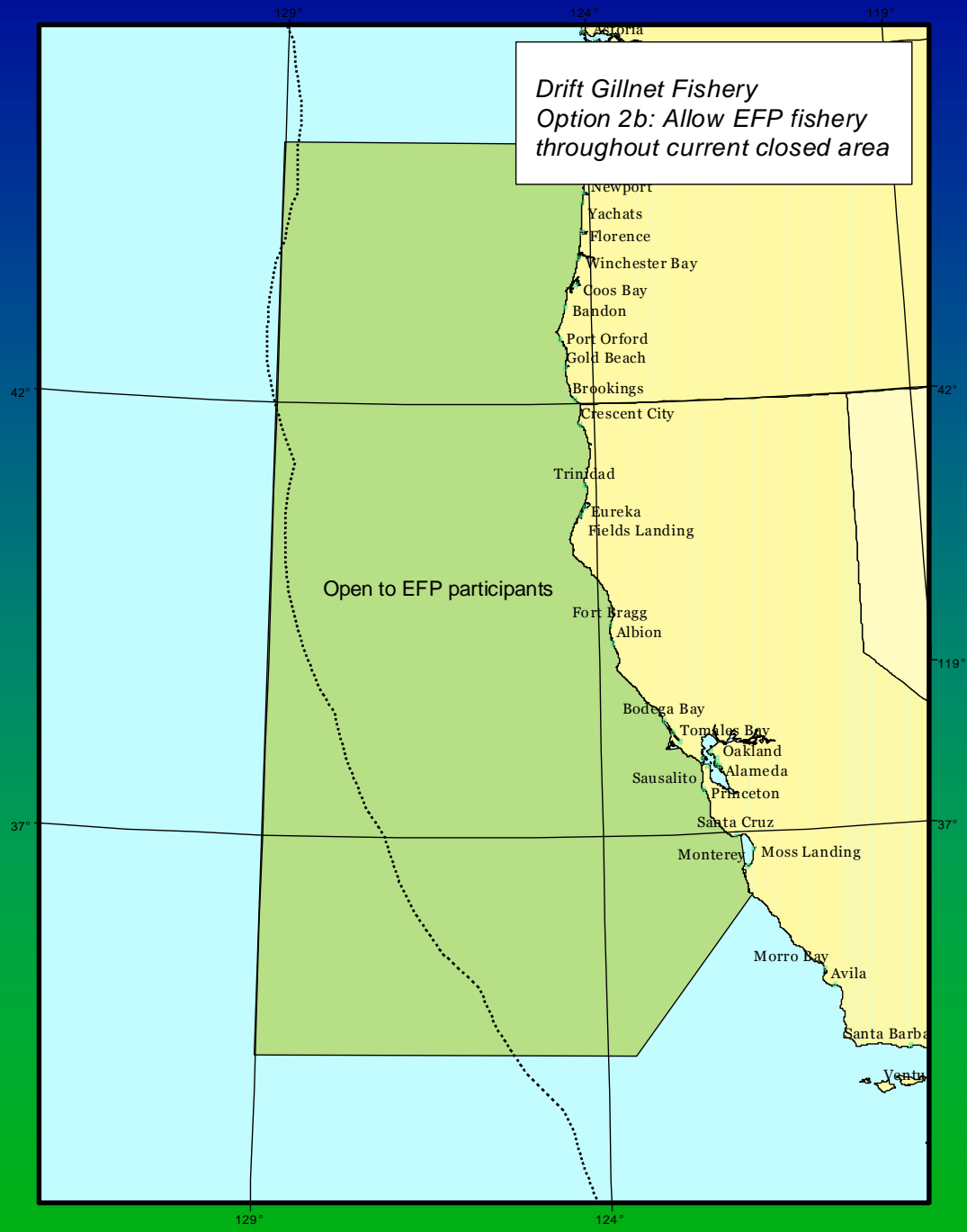
**Drift Gillnet Fishery**  
**Option 2a: Close within Pt. Arena-Pt Sur**  
**area to EFP fishery**



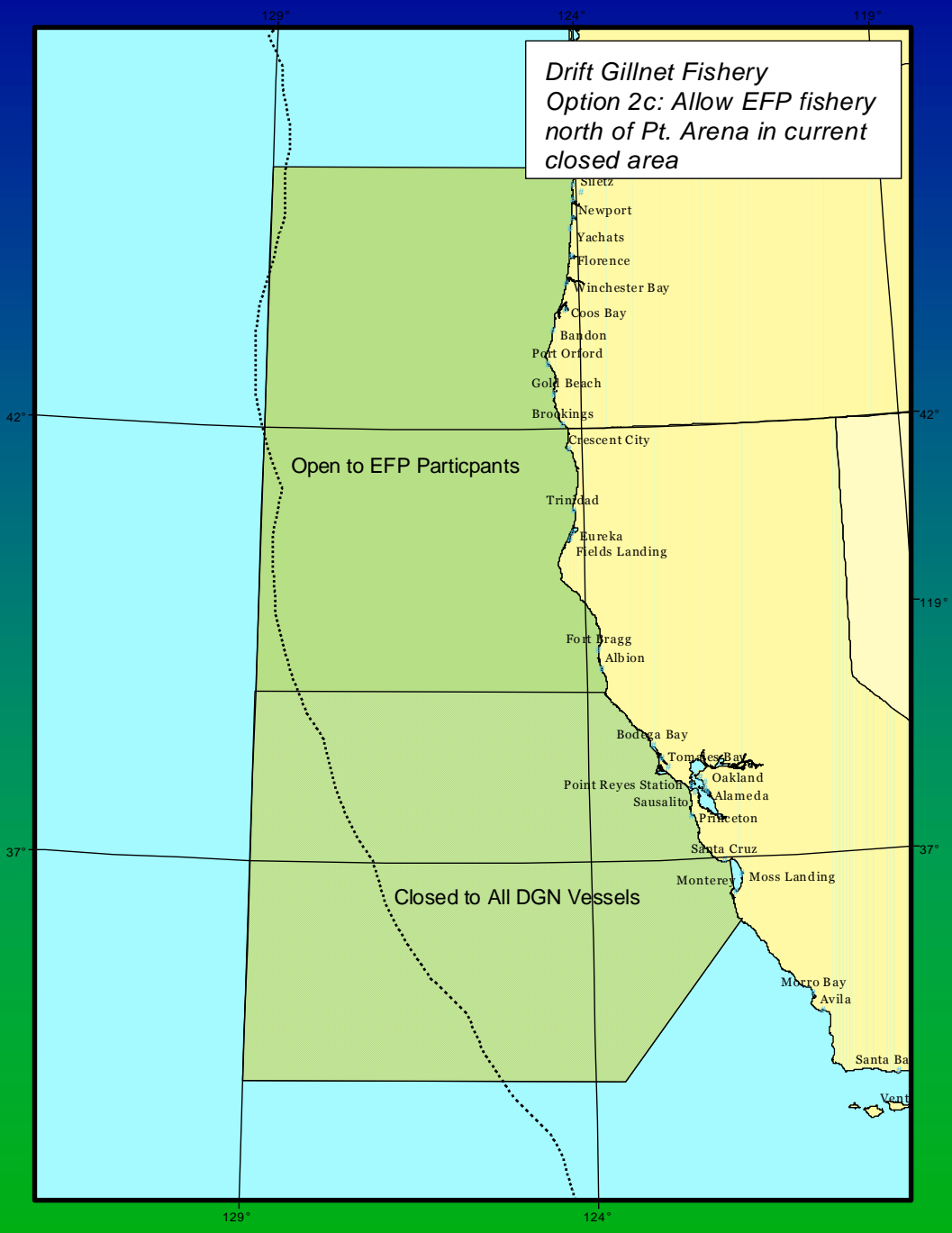
# Historic observed leatherback takes and effort, 1990 - 2002

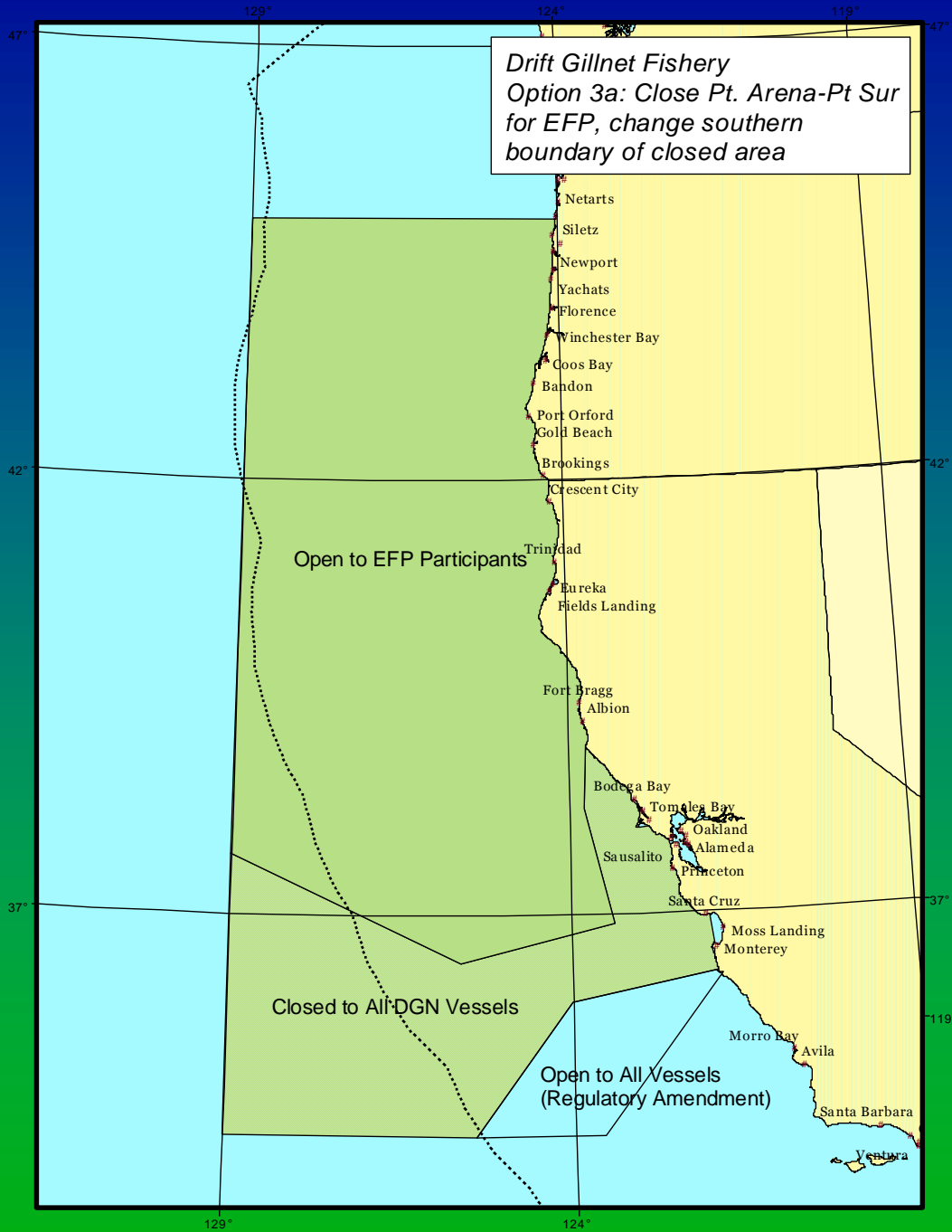


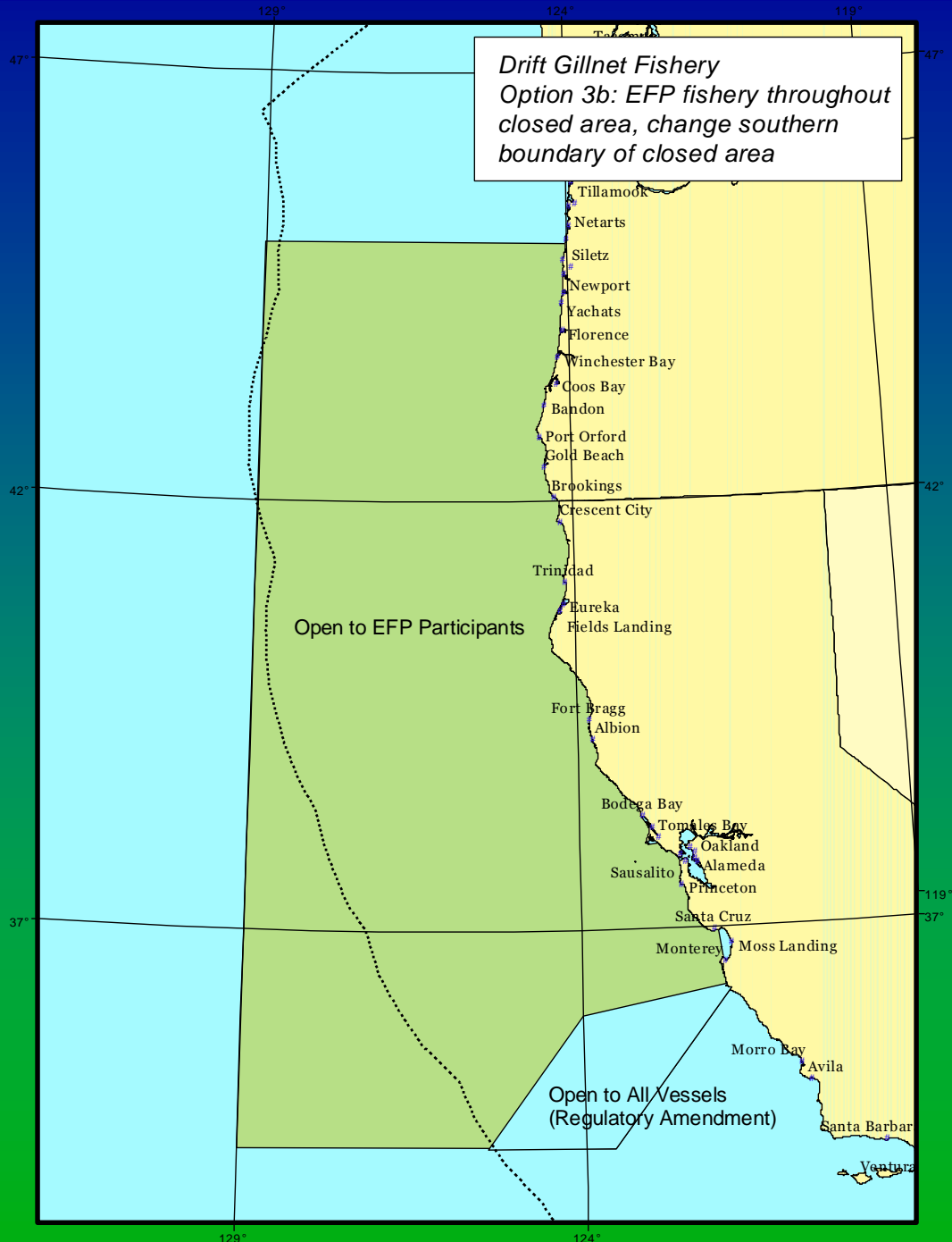




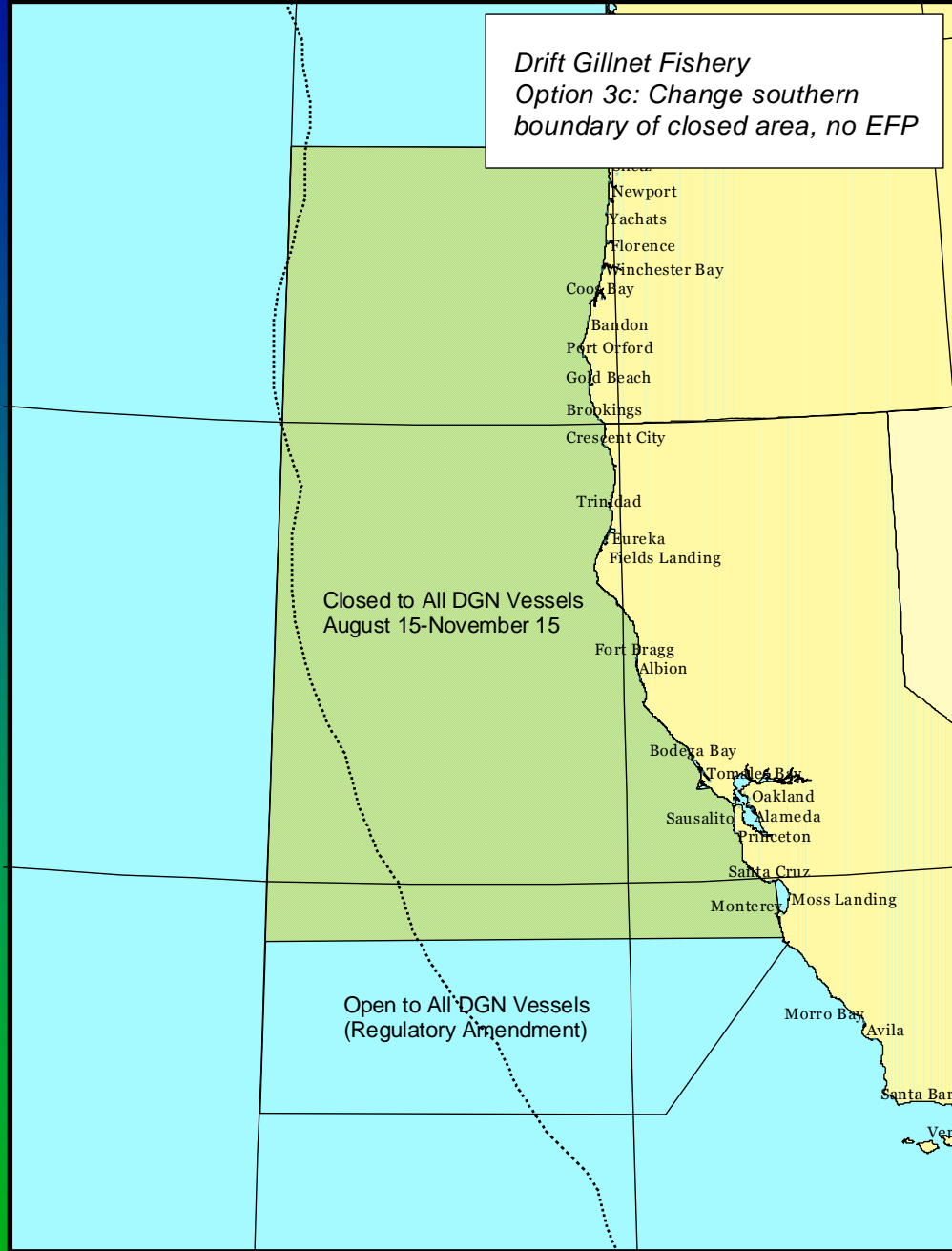
*Drift Gillnet Fishery  
Option 2c: Allow EFP fishery  
north of Pt. Arena in current  
closed area*







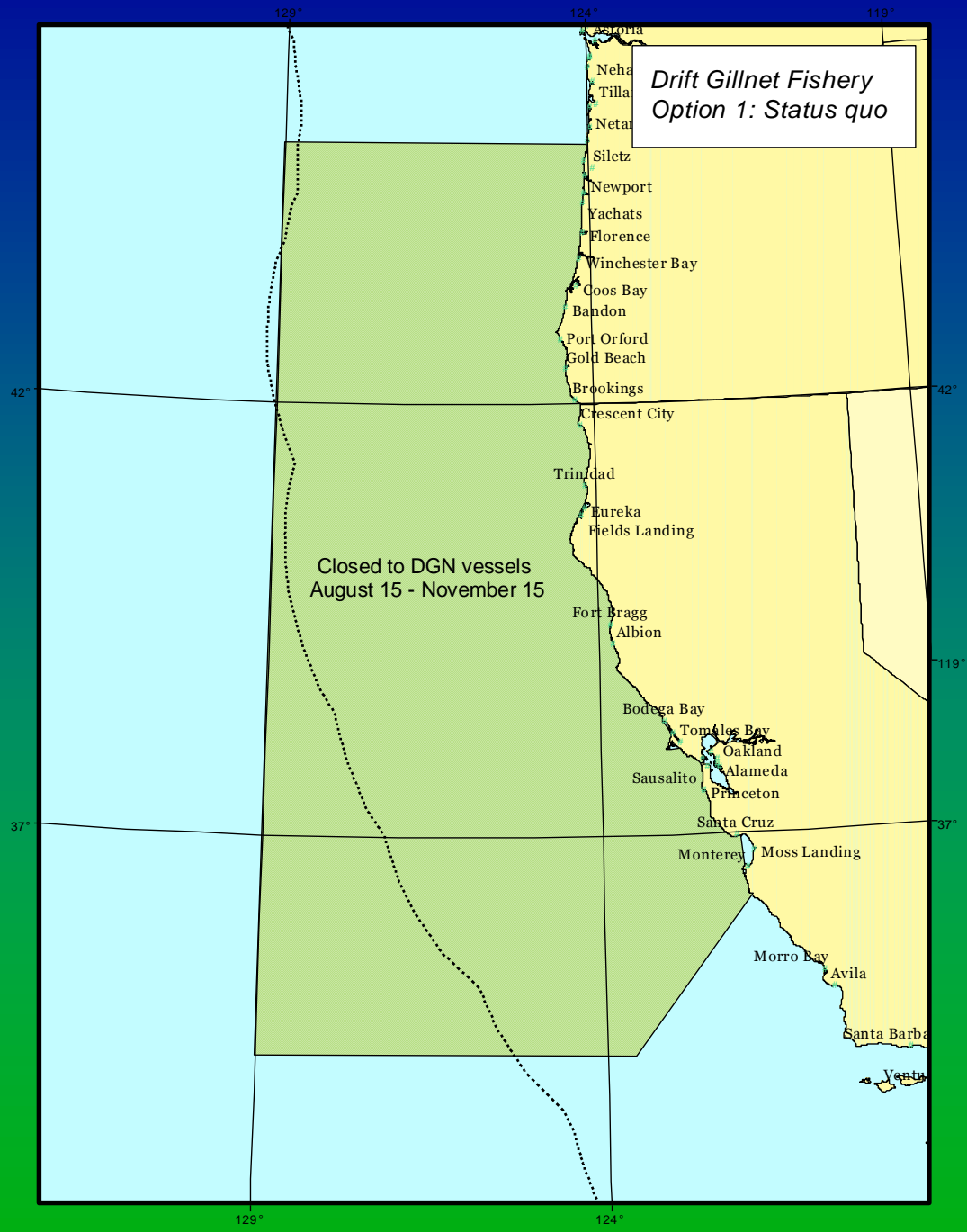
*Drift Gillnet Fishery  
Option 3c: Change southern  
boundary of closed area, no EFP*



Closed to All DGN Vessels  
August 15-November 15

Open to All DGN Vessels  
(Regulatory Amendment)

- Newport
- Yachats
- Florence
- Winchester Bay
- Cook Bay
- Bandon
- Port Orford
- Gold Beach
- Brookings
- Crescent City
- Trinidad
- Eureka
- Fields Landing
- Fort Bragg
- Albion
- Bodega Bay
- Tomales Bay
- Sausalito
- Oakland
- Alameda
- Princeton
- Santa Cruz
- Monterey
- Moss Landing
- Morro Bay
- Avila
- Santa Barbara
- Venice



# Anticipated rates of leatherback takes

Number of sets	Takes (range**)			Mortalities* (range)		
	Mean	Low	High	Mean	Low	High
300	2	1	3	1	1	2
500	4	2	5	2	1	3
600	5	3	6	3	2	4

\*Based upon 61% observed mortality rate

\*\*Range is the 95% CI around the mean rate