

California Collaborative Fisheries Program



Central Coast Collaborative Fisheries Program
August 1st (Santa Cruz, CA) and 8th (Morro Bay, CA)

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What is the status of the program currently?

- Held two scoping meetings in May 2007 with MB/PSL Fleet and Monterey/HMB Fleet (around 50 Fisherman) and NOAA and CDF&G
- Rick Starr (MLML) and Dean Wendt (Cal Poly) with help of Don Maruska developed a proposal to integrate and standardized efforts over the entire central coast (6/07)
- Proposal: collaborate with CPFV and commercial trap to:
 - Assess effectiveness of MPAs
 - Provide standardized data pm nearshore fishes that will feed directly into federal stock assessments
- We have received funding to work with the CPFV (7/07). Still actively seeking funds to support work with the commercial trap industry (DFG has internal proposal pending)
- Met last week with Monterey/Half Moon Bay Fleets. On the water to collect data (8/06/07)



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Outcomes for Our Work Tonight

1. Review General Study Protocols
2. Review Gear Types Discussed on August 1 with MonB/HMB
3. Decide on Suitable Reference Area for Pt. Buchon MPA
4. Determine Areas of High and Low Productivity within Pt. Buchon MPA and Reference Area
5. Review Criteria for Angler Participation
6. Review Handout on Logistics of Trips
7. Sign up for Trips in August, September, and October



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Fishermen Expertise is Essential

“Our collaborative monitoring program goes beyond simply using fishermen as boat captains for a team of scientists. Indeed, we are utilizing the expertise and knowledge of fishermen within a scientifically and statistically rigorous framework to execute a baseline monitoring program”



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What Type of Survey can Provide Data for Both MPA Evaluation and for Fishery Management?

Stratified Random Surveys Through Time:

- Using Fishermen's Knowledge to Determine Where to Fish
- Using Volunteer Fishermen's Skills to Catch Fish
- Using Scientist's Skills to Design Statistically Sound Study
- Using Scientist and Fishermen's Knowledge to Interpret Data



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The objective is to estimate how many fish are in the area

but fish prefer certain habitats



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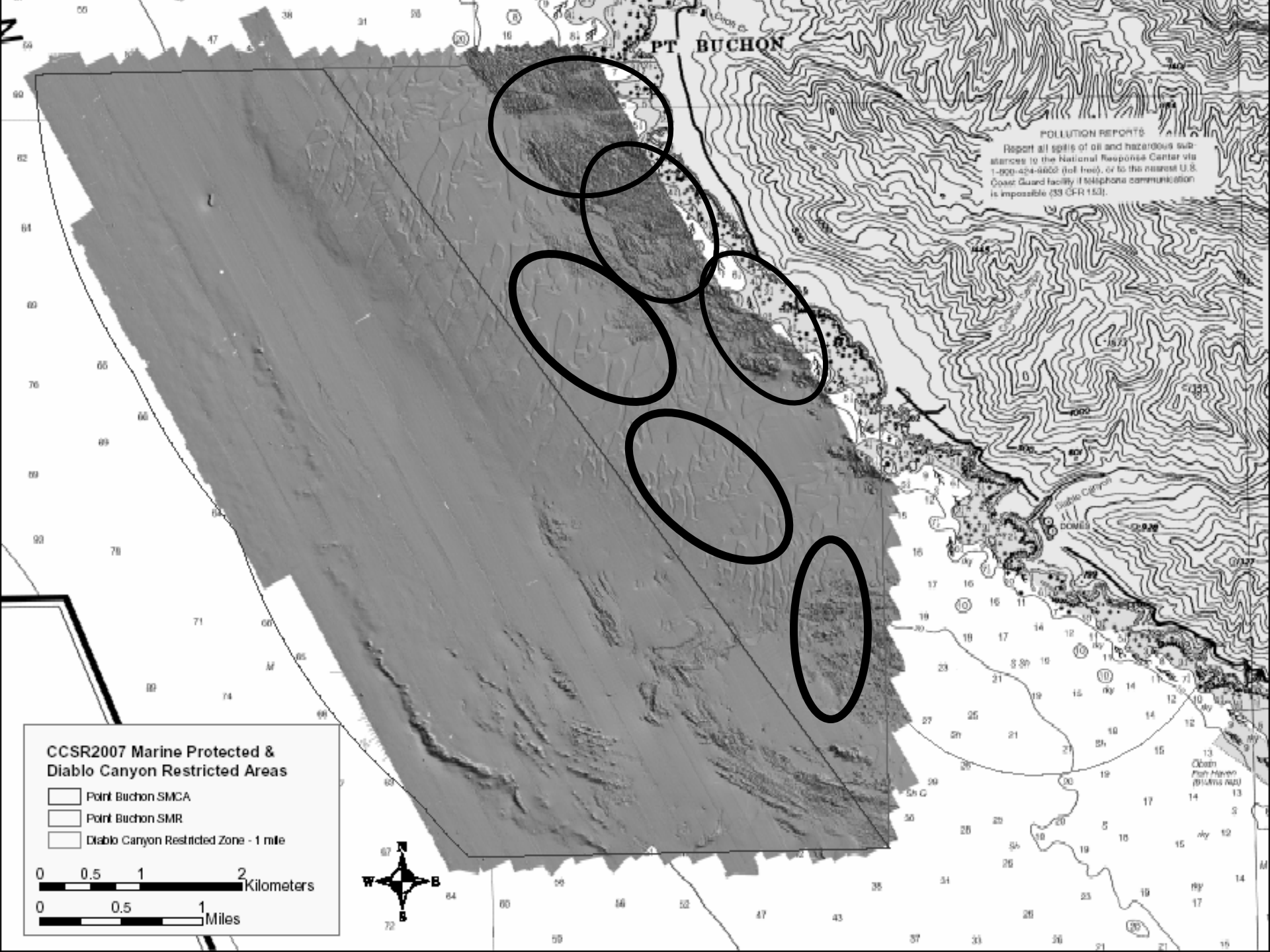
A better strategy is to sample where the fish are by stratifying the area into distinct zones (i.e., habitats)

60% of samples go into the good habitat because 60% of the fish are found there



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PT BUCHON

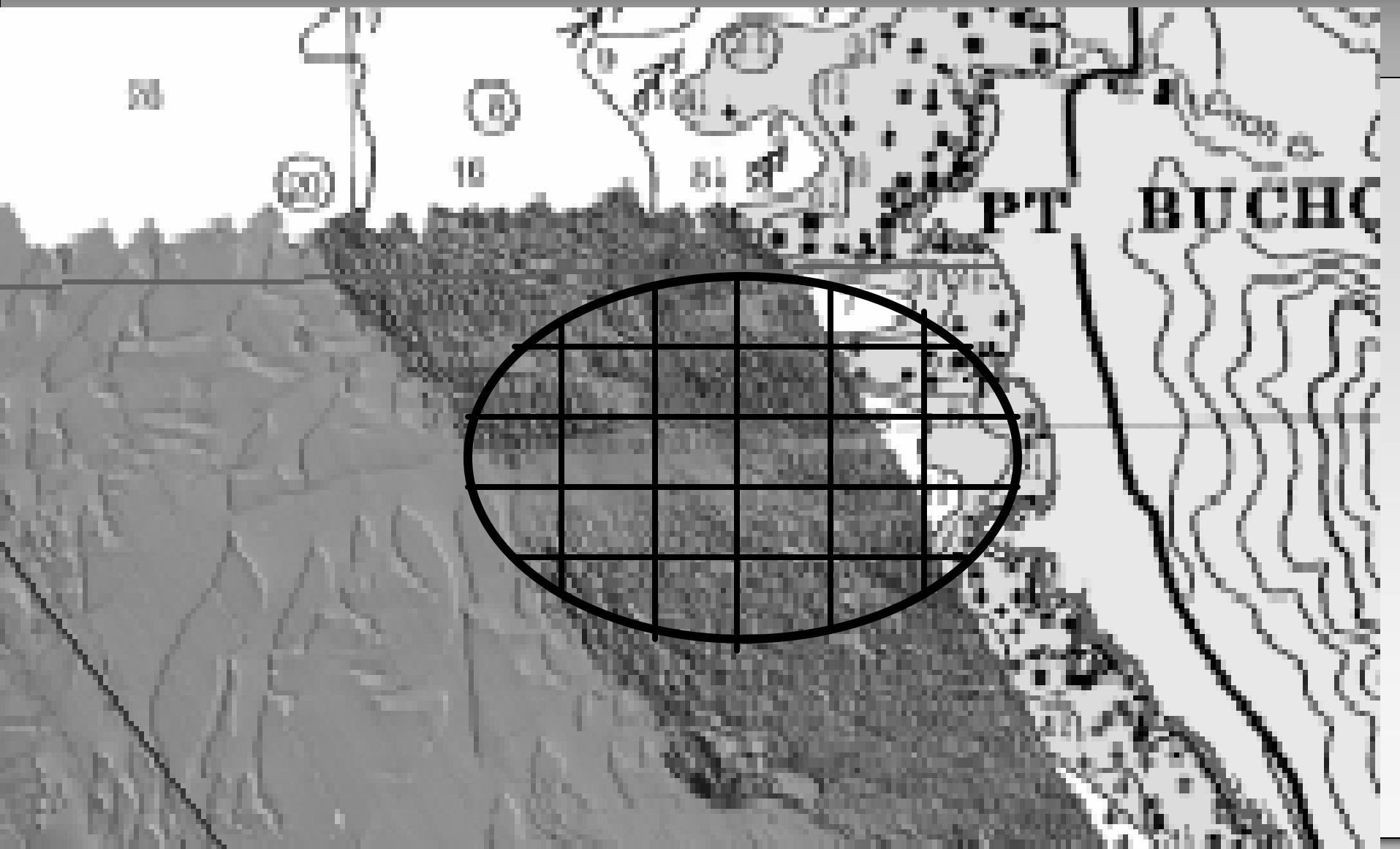
POLLUTION REPORTS

Report all spills of oil and hazardous substances to the National Response Center via 1-800-424-6622 (toll free), or to the nearest U.S. Coast Guard facility if telephone communication is impossible (33 CFR 153).

CCSR2007 Marine Protected & Diablo Canyon Restricted Areas

- Point Buchon SMCA
- Point Buchon SMR
- Diablo Canyon Restricted Zone - 1 mile

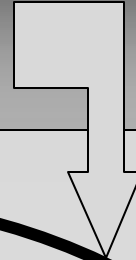




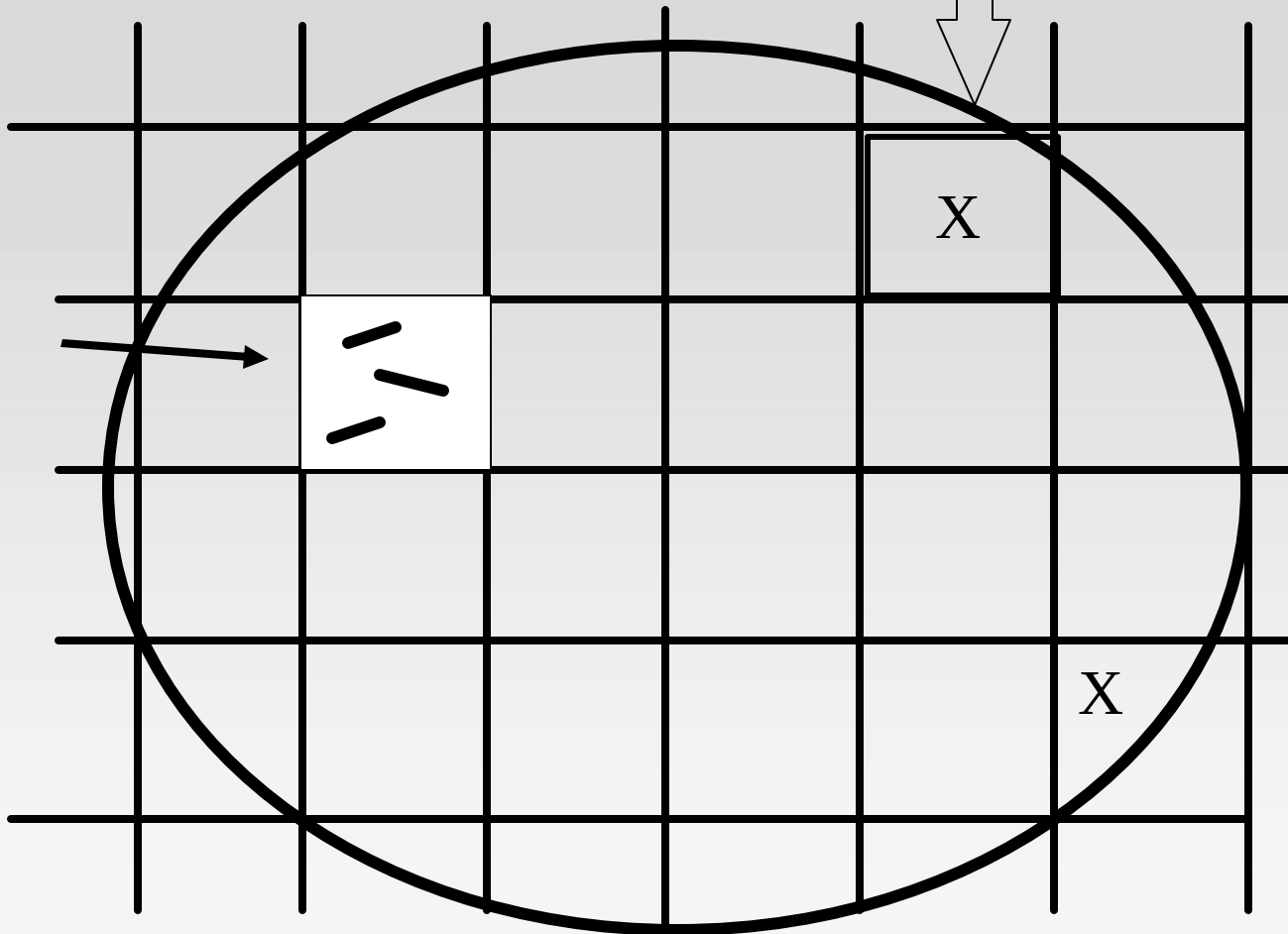
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Grid Cell



Fishing
Sites



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General Sampling Protocols

- Each reserve and reference site will be sampled 2 days a month for 3 months
- Cells within a reserve or reference site will be selected at random based on fishermen classification of high and low productivity areas
- Captains will determine where within a cell to fish
- 4-5 cells will be fished on a given day.
- Drifts within a cell will be 15 minutes (3 per cell), unless fishing is too good to process and tag. In that case, a total of 30 minutes of drop time.
- Anglers will catch as many fish as possible during a drift using one of three gear types
- Fish will be placed in a bucket on deck. Each fish will be tagged and returned



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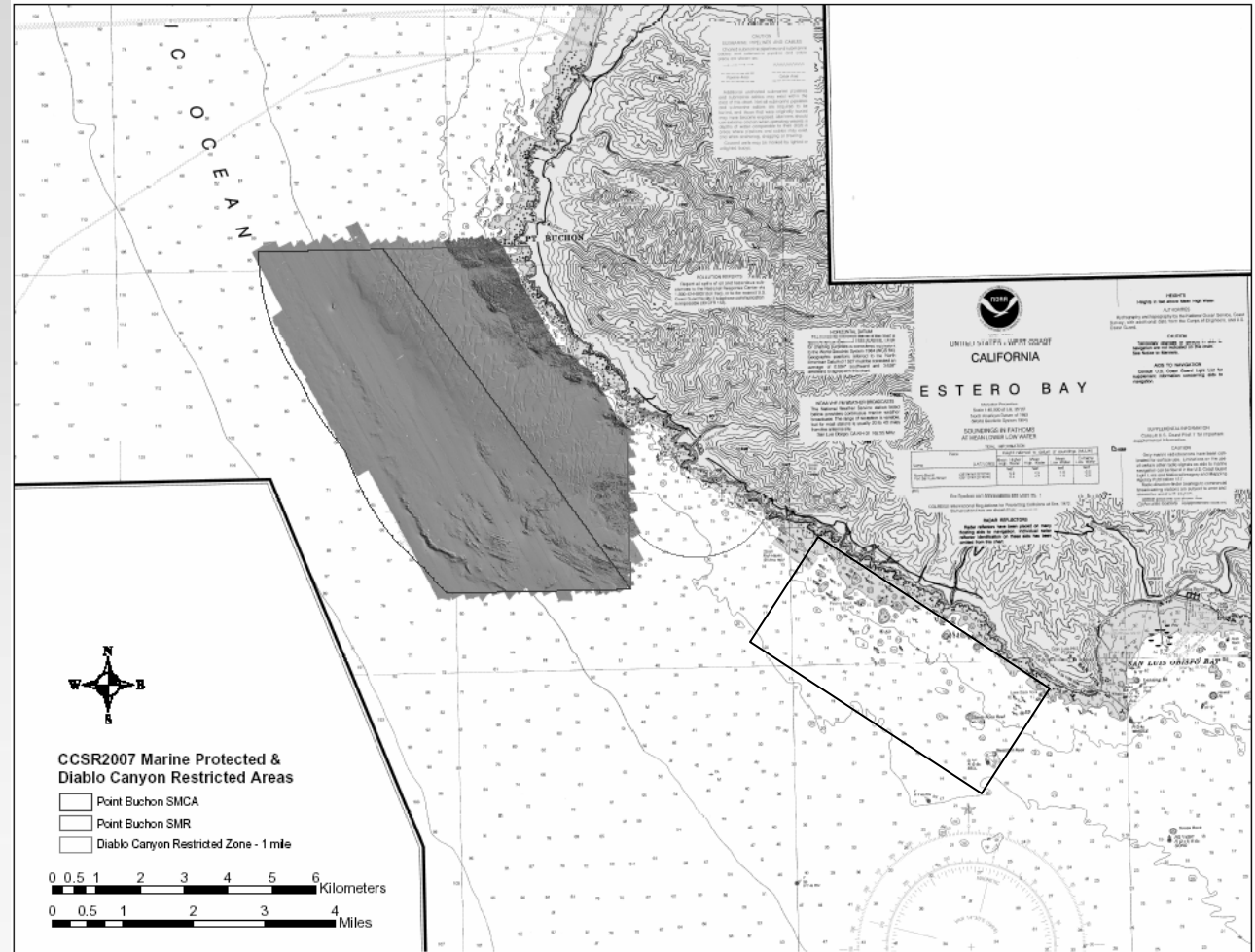
Gear Types

- Lingcod bars with shrimp fly teaser
 - Three different colors of bars at 3 different weights (4, 6, and 8 oz)
 - The anglers can choose the color and weight that they want to use based on the criterion that they will use the smallest weight that will get the line to the bottom
- Mylar shrimp flies with #3 hooks, and enough weight to take the gear quickly to the bottom
 - Three different colors- the fishermen can decide which color they want to use
- The same as gear #2 (above) with frozen squid, cut into strips 2-4 inches long



Reference Sites and High and Low Productivity Areas

1. What is a suitable reference site for the Pt. Buchon SMR?
2. What are the high and low productivity sites within Pt. Buchon SMR and the reference site?



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Participation of Captains and Crew



- Drift location
- Maintain location within cell
- Depth readings
- Coordinate with science crew on time of drop
- Prepare bait for shrimp flies
- Assistant science crew keeping fish alive



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Criteria and Expectations for Angler Participation

1. At least 14 years old
2. Some experience at ocean fishing
3. Be willing to fish solidly for 6 hours
4. Fish for each entire 15 minute drift (be alert for start/stop signals)
5. Use the designated gear that is given to them at the beginning of the trip
6. Stay at the designated station which is assigned at the beginning of the trip



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Sampling Schedule for 2007

		
	(Tues. and Weds.)	(Mon. and Tues.)
August	21 st and 22 nd	27 th and 28 th
September	18 th and 19 th	24 th and 25 th
October	23 rd and 24 th	15 th and 16 th



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