

Marine Life Protection Act Initiative



Summary of Potential Impacts of the BRTF MPA Options on Commercial and Recreational Fisheries

Presentation to the MLPA Blue Ribbon Task Force
November 10, 2009 • Los Angeles, CA

Prepared by Ecotrust



Outline

- Supporting information available
 - Evaluation report
 - Option combinations
 - MPA specific impacts
- Overview of impacts by option (geography)
 - Commercial
 - Commercial passenger fishing vessel (CPFV)
 - Recreational



BRTF Point Dume Options (Com)

- Focus on impacts to Port Hueneme and San Pedro
- Overall, Option 3 has the least potential impact, Option 1 the greatest potential impact
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 21, least 8
 - Option 2 – greatest potential impact on 1, least 1
 - Option 3 – greatest potential impact on 8, least 21
- Impacts can vary based on fishery
 - Option 1 has the least impact to the Ca. lobster fishery in both ports, but Option 3 has the least impact to the urchin fishery in both ports



BRTF Point Dume Options (CPFV)

- Focus on impacts to Port Hueneme / Channel Islands Harbor
- Overall, Options 1 & 2 have the least impact.
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 12, least 11
 - Option 2 – greatest potential impact on 1, least 5
 - Option 3 – greatest potential impact on 11, least 12
- Larger state marine conservation area (SMCA) that extends northwest (Option 3) has greater impact on CPFV fleet out of Port Hueneme/Channel Islands Harbor compared to smaller SMCA with bordering state marine reserve (SMR) (Options 1 & 2)



BRTF Point Dume Options (Rec)

- Focus on impacts to kayak angling and dive/spear fishing associated with Ventura County
- Overall, Option 3 has the least impact to both kayak angling and dive/spear fishing
- Of the species combinations where impacts would potentially occur (kayak angling):
 - Option 1 – greatest potential impact on 7, least 0
 - Option 2 – greatest potential impact on 0, least 0
 - Option 3 – greatest potential impact on 0, least 7
- Of the species combinations where impacts would potentially occur (dive/spear fishing):
 - Option 1 – greatest potential impact on 10, least 0
 - Option 2 – greatest potential impact on 0, least 3
 - Option 3 – greatest potential impact on 2, least 9



BRTF Palos Verdes Options (Com)

- Focus on impacts to San Pedro ports
- Overall, both options have similar potential impacts, both 1.2% in San Pedro
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 11, least 9
 - Option 2 – greatest potential impact on 9, least 11
- Impacts can vary based on fishery
 - Even though overall they have similar impacts in San Pedro, Option 2 has the least impact to all fisheries, except sablefish, thornyhead, and sea cucumber (dive)
 - Sablefish and thornyhead fishing grounds primarily occur outside of state waters



BRTF Palos Verdes Options (CPFV)

- Focus on impacts to Santa Monica and San Pedro/Long Beach
- Overall, Option 2 has the least potential impact to the Santa Monica CPFV fleet, Option 1 for San Pedro/Long Beach CPFV
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 13, least 9
 - Option 2 – greatest potential impact on 9, least 13
- Option 1 has a net economic impact of 9.5% to the Santa Monica CPFV fleet compared to 1.9% in Option 2 – difference in location



BRTF Palos Verdes Options (Rec)

- Focus on impacts to kayak angling and dive/spear fishing associated with Los Angeles County
- Overall, Option 2 has the least impact to both kayak angling and dive/spear fishing
- Of the species combinations where impacts would potentially occur (kayak angling):
 - Option 1 – greatest potential impact on 9, least 2
 - Option 2 – greatest potential impact on 2, least 9
- Of the species combinations where impacts would potentially occur (dive/spear fishing):
 - Option 1 – greatest potential impact on 12, least 1
 - Option 2 – greatest potential impact on 1, least 12



BRTF Orange County Options (Com)

- Focus on impacts to Dana Point
- Overall, Option 2 has the least potential impact.
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 16, least 5
 - Option 2 – greatest potential impact on 5, least 16
- Impacts don't vary based on fishery
 - Across all commercial fisheries in Dana Point, Option 2 has the least potential impact
 - Ca. lobster, 4.6% net economic impact (NEI) for Option 1 and 4.0% NEI for Option 2



BRTF Orange County Options (CPFV)

- Focus on impacts to Newport Beach and Dana Point
- Overall, both Option 1 and 2 have greater potential impacts to Dana Point compared to Newport Beach
- Between options, Option 2 has the least impact (7.0% NEI compared to 7.4% NEI) to the Newport CPFV fleet and Option 1 for Dana Point (12.5% NEI compared to 14.8%)
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 9, least 16
 - Option 2 – greatest potential impact on 16, least 9
- Option 1 and 2 split Newport Beach and Dana Point CPFV fleets, difference in impacts depend on the MPAs shifted to the north or the south (i.e., Option 1 has a greater impact on Newport Beach, Option 2 – Dana Point)



BRTF Orange County Options (Rec)

- Focus on impacts to kayak angling and dive/spear fishing associated with Orange County
- Overall, Option 2 has the least impact to kayak angling and both options have similar impacts to dive/spear fishing
- Of the species combinations where impacts would potentially occur (kayak angling):
 - Option 1 – greatest potential impact on 8, least 0
 - Option 2 – greatest potential impact on 0, least 8
- Of the species combinations where impacts would potentially occur (dive/spear fishing):
 - Option 1 – greatest potential impact on 5, least 4 (same for 2 species)
 - Option 2 – greatest potential impact on 4, least 5 (same for 2 species)



BRTF San Diego Options (Com)

- Focus on impacts to Oceanside and San Diego
- Overall, Option 3 - least potential impact to Oceanside and Option 2 - least potential impact to San Diego. Option 4 has the greatest potential impact to both ports.
- Of the port-fishery combinations where impacts would potentially occur:
 - Option 1 – greatest potential impact on 10, least 2
 - Option 2 – greatest potential impact on 3, least 8
 - Option 3 – greatest potential impact on 5, least 7
 - Option 4 – greatest potential impact on 7, least 5
- Impacts can vary based on fishery
 - Option 2 has the least impact to the Ca. lobster fishery in San Diego, but Option 4 has the least impact to the urchin fishery



BRTF San Diego Options (CPFV)

- Focus on impacts to Oceanside and San Diego
- Overall, Option 2 has the least potential impact to both the Oceanside and San Diego CPFV fleets.
- Overall, Option 4 the greatest potential impact to Oceanside and Option 1 for San Diego
- Potential net economic impacts by option:
 - Option 1 – Oceanside (11.9%), San Diego (25.2%)
 - Option 2 – Oceanside (11.7%), San Diego (19.8%)
 - Option 3 – Oceanside (11.8%), San Diego (22.5%)
 - Option 4 – Oceanside (13.6%), San Diego (21.2%)



BRTF San Diego Options (Rec)

- Focus on impacts to all recreational fishing sectors associated with San Diego
- Overall, Option 4 has the least impact to all recreational fishing sectors in San Diego County
- Overall, Option 1 has the greatest impact to all recreational fishing sectors in San Diego County
- Of the species combinations where impacts would potentially occur (kayak angling):
 - Option 1 – greatest potential impact on 14, least 0
 - Option 2 – greatest potential impact on 0, least 0
 - Option 3 – greatest potential impact on 0, least 2
 - Option 4 – greatest potential impact on 0, least 12



BRTF San Diego Options (Rec)

- Of the species combinations where impacts would potentially occur (dive/spear fishing):
 - Option 1 – greatest potential impact on 12, least 0
 - Option 2 – greatest potential impact on 0, least 0
 - Option 3 – greatest potential impact on 0, least 1
 - Option 4 – greatest potential impact on 0, least 12
- Of the species combinations where impacts would potentially occur (private boat fishing):
 - Option 1 – greatest potential impact on 12, least 0
 - Option 2 – greatest potential impact on 0, least 6
 - Option 3 – greatest potential impact on 0, least 1
 - Option 4 – greatest potential impact on 2, least 7



BRTF Options: Least Potential Impact

- Overall, listed are the options in each geography that would have the least potential impact:

| | Commercial | CPFV | Recreational |
|----------------------|-------------------|---------------|---------------------|
| Point Dume | Option 3 | Options 1 & 2 | Option 3 |
| Palos Verde | Option 2 | Option 2 | Option 2 |
| Orange County | Option 2 | Option 1 | Option 2 |
| San Diego | Option 2 | Option 2 | Option 4 |



BRTF Options: Greatest Potential Impact

- Overall, listed are the options in each geography that would have the greatest potential impact:

| | Commercial | CPFV | Recreational |
|----------------------|-------------------|-------------|---------------------|
| Point Dume | Option 1 | Option 3 | Option 1 |
| Palos Verde | Option 1 | Option 1 | Option 1 |
| Orange County | Option 1 | Option 2 | Option 1 |
| San Diego | Option 1 | Option 4 | Option 1 |