## **Marine Life Protection Act Initiative**



# Evaluation of Potential Impacts to Commercial and Recreational Fisheries from the Round 3 NCRSG MPA Proposal

Presentation to the MLPA Blue Ribbon Task Force October 25, 2010 • Fortuna, California

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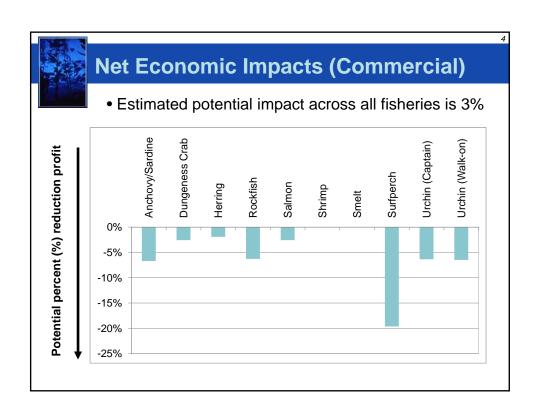
#### **Round 3 Evaluation: Overview**

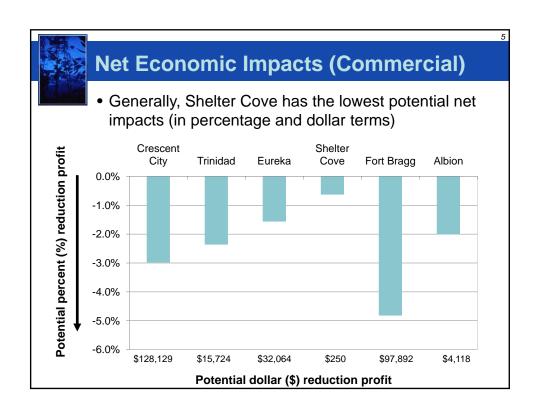
Standard Evaluation (NCP)

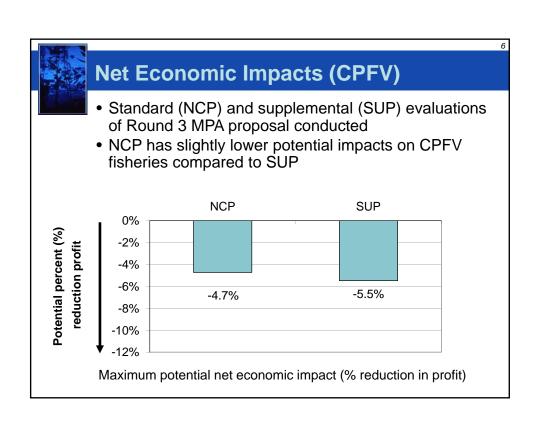
- Evaluated for commercial, commercial passenger fishing vessel (CPFV), and recreational fisheries
- Considers all proposed uses, including non-commercial uses intended to accommodate tribal uses
- Proposed recreational uses intended to accommodate tribal uses reduce potential impacts to CPFV and recreational fisheries
- Supplemental Evaluation (SUP)
  - Only evaluated for CPFV and recreational fisheries
  - Considers only proposed uses intended for all users
  - Does not include recreational take intended only to accommodate tribal uses

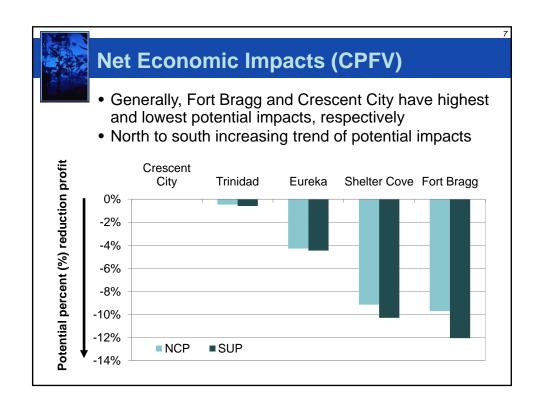
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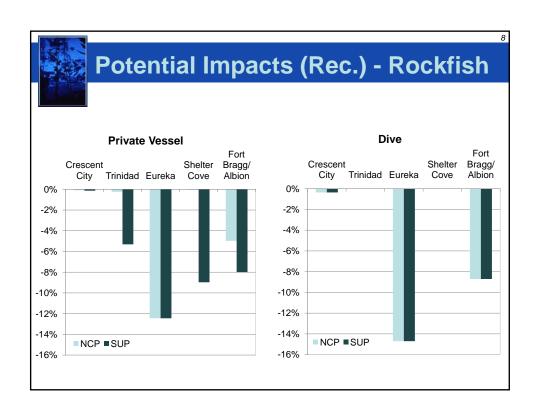
| Evaluation Overview                                          |                           |                    |      |          |              |                                        |  |  |  |
|--------------------------------------------------------------|---------------------------|--------------------|------|----------|--------------|----------------------------------------|--|--|--|
|                                                              | Commercial                | CPF\               | /    |          | Recreat      | ional                                  |  |  |  |
| # of fisheries                                               | 10 species                | 5 speci            | es   |          | 6 spec       | eies                                   |  |  |  |
| Level of analysis                                            | Port-fishery combinations | Port-fish combinat | •    | group (  | •            | ed by user<br>essel, kayak,<br>by port |  |  |  |
| Sample size                                                  | 219                       | 22                 |      |          | 574          | ļ                                      |  |  |  |
| **Reported results represent the maximum potential impacts   |                           |                    |      |          |              |                                        |  |  |  |
|                                                              |                           |                    | Comr | nercial  | CPFV         | Recreational                           |  |  |  |
| Potential impacts on fishing grounds (area and stated value) |                           |                    | ,    | /        | ✓            | ✓                                      |  |  |  |
| Potential net economic impacts -1st order                    |                           |                    | ,    | ✓        | $\checkmark$ |                                        |  |  |  |
| Potential gross economic impacts -1st order                  |                           |                    | •    | <b>√</b> |              |                                        |  |  |  |
| Disproportionate impacts on fisheries                        |                           |                    | ,    | <b>✓</b> | ✓            |                                        |  |  |  |
| Disproportionate impacts on individuals                      |                           |                    | ,    | ✓        |              |                                        |  |  |  |













## **Summary Across Sectors**

- Potential net economic impact to commercial fisheries is 3%
  - Higher potential impacts to commercial fisheries in Fort Bragg (4.8%), Crescent City (3%), and Trinidad (2.4%)
  - Potential impact to Fort Bragg commercial fisheries generally distributed across fisheries
  - Potential impact (less than 2%) to Crescent City, Eureka and Trinidad commercial fisheries generally is to Dungeness crab
- Average net economic impact to CPFV fisheries is 4.7% (NCP) and 5.5% (SUP)
  - Trend in potential impact from north (lowest) to south (highest)
- Rockfish fishery generally sees the highest potential impact for recreational species



## **Background Information**

10

- The following slides presented, reviewed and approved by the MLPA Master Plan Science Advisory Team (SAT) at its meeting on October 14, 2010
- Slides are included for reference only and will not be presented to the MLPA Blue Ribbon Task Force on October 25, 2010



**Round 3 Evaluation: Overview** 

- Directed by MLPA Blue Ribbon Task Force (BRTF) to conduct two evaluations of the Round 3 MLPA North Coast Regional Stakeholder Group (NCRSG) Marine Protected Area (MPA) Proposal
  - Standard evaluation (labeled NCP)
  - Supplemental evaluation (labeled SUP)
- Evaluations based on the aggregate fishing grounds and cost estimates derived from Ecotrust data collection effort:
  - Determined percentage of area and value affected
  - Evaluated maximum potential first order economic impact
  - Considered or identified "outliers" i.e., fisheries likely to experience disproportional impacts
- Focus is on fisheries, and not regional multipliers



#### **Net Economic Impacts (Commercial)**

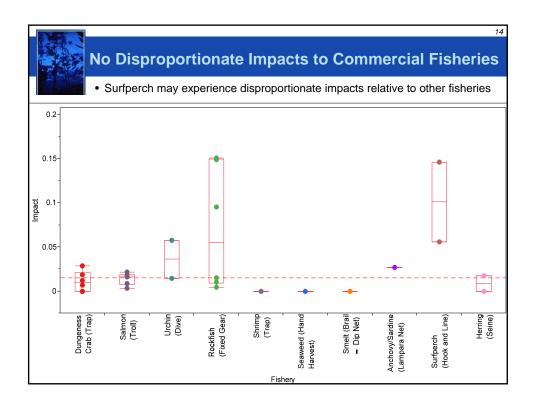
 Reported results represent the maximum potential impacts (i.e., "worst case scenario")

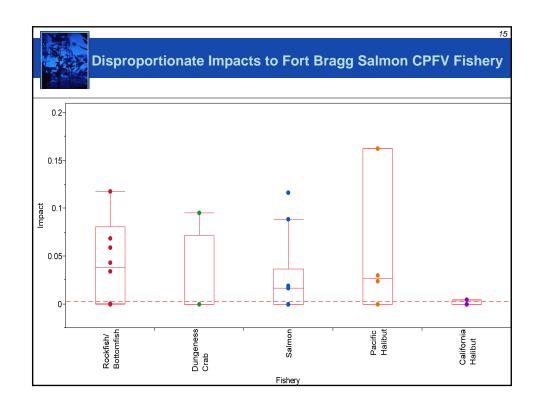
|                                                     | Baseline                     | Estimated                | Baseline                                | NCP                                       |  |
|-----------------------------------------------------|------------------------------|--------------------------|-----------------------------------------|-------------------------------------------|--|
| Port                                                | GER                          | Costs                    | NER (Profit)                            | \$ Reduction in Profit                    |  |
| Crescent City                                       | \$11,472,598                 | \$7,172,150              | \$4,300,448                             | \$128,129                                 |  |
| Trinidad                                            | \$1,788,406                  | \$1,122,654              | \$665,752                               | \$15,724                                  |  |
| Eureka                                              | \$5,496,074                  | \$3,448,196              | \$2,047,879                             | \$32,064                                  |  |
| Shelter Cove                                        | \$96,205                     | \$56,574                 | \$39,630                                | \$250                                     |  |
| Fort Bragg                                          | \$4,650,189                  | \$2,619,617              | \$2,030,572                             | \$97,892                                  |  |
| Albion                                              | \$361,745                    | \$157,018                | \$204,727                               | \$4,118                                   |  |
| NCSR                                                | \$23,865,216                 | \$14.576,208             | \$9,289,008                             | \$278,177                                 |  |
|                                                     |                              |                          |                                         |                                           |  |
|                                                     | , ,,,,,,                     | , , , , , , , ,          | , , , , , , , , , , , , , , , , , , , , | • • •                                     |  |
|                                                     |                              | , , , , , , , , ,        | , , , , , , , , ,                       | % Reduction in Profit                     |  |
|                                                     | 100%                         | 63%                      | 37%                                     | , ,                                       |  |
|                                                     |                              |                          |                                         | % Reduction in Profit                     |  |
| Crescent City<br>Trinidad                           | 100%                         | 63%                      | 37%                                     | % Reduction in Profit                     |  |
| Crescent City<br>Trinidad<br>Eureka                 | 100%<br>100%                 | 63%<br>63%               | 37%<br>37%                              | % Reduction in Profit 3.0% 2.4%           |  |
| Crescent City                                       | 100%<br>100%<br>100%         | 63%<br>63%<br>63%        | 37%<br>37%<br>37%                       | % Reduction in Profit 3.0% 2.4% 1.6%      |  |
| Crescent City<br>Trinidad<br>Eureka<br>Shelter Cove | 100%<br>100%<br>100%<br>100% | 63%<br>63%<br>63%<br>59% | 37%<br>37%<br>37%<br>41%                | % Reduction in Profit 3.0% 2.4% 1.6% 0.6% |  |



**Potential Impacts (Recreational)** 

- Potential impacts to recreational fishing vary by port, user group and fishery
- For example, rockfish/bottomfish fishery generally has higher potential impacts across all ports and user group
- Similarly, Fort Bragg recreational fisheries generally have higher potential impacts as compared to other ports
- Additional details and examples are available in the full report







# **Disproportionate Impacts Summary**

- No commercial port-fishery combinations potentially disproportionately impacted
  - Note: Surfperch may experience disproportionate impacts relative to other north coast fisheries
- Salmon CPFV fishery potentially disproportionately impacted in Fort Bragg

Estimated Impact on Stated Value of Total

| Port       | Fishery | NCRSG MPA Proposal | Fishing Grounds |   |
|------------|---------|--------------------|-----------------|---|
| Fort Bragg | Salmon  | NCP, SUP           | 8.9%, 11.6%     | Ī |