# Appendix M. Maps

GIS Support for the NFMP, May 2001, California Department of Fish and Game, Marine Region

# **Overview and Objectives of Maps**

Maps were compiled for the purpose of providing GIS support for the Chapters written for the NFMP document. Some maps were modified from existing projects and studies to fit the black and white, 8.5- by 11-inch format of this document. Other maps were created specically for individual chapters. Maps should be used within the context of the NFMP document. All GIS data were analyzed and compiled by the GIS Lab of the Department.

# Section 1

# **Chapter 2 - Description of Stocks**

Maps in this section are a series of common ranges of 19 species of nearshore finfish. Species for this section include:

Black rockfish (6-1)

Black-and-yellow rockfish (6-2)

Blue rockfish (6-3)

Brown rockfish (6-4)

Cabezon (6-5)

Calico rockfish (6-6)

California scorpionfish (6-7)

California sheephead (6-8)

China rockfish (6-9)

Copper rockfish (6-10)

Gopher rockfish (6-11)

Grass rockfish (6-12)

Kelp greenling (6-13)

Kelp rockfish (6-14)

Monkeyface prickleback (6-15)

Olive rockfish (6-16)

Quillback rockfish (6-17)

Rock greenling (6-18)

Treefish (6-19)

# **Description of the Fishery**

There are two maps in this chapter depicting major marine ports and headlands. Maps are divided into Northern to Central (3-1) and Central to Southern (3-2). These provide geographic location and distribution of major marine ports and headlands that are referenced in this section.

# **History of the Conservation and Management Measures**

#### Cowcod closure areas

The Southern California region shows locations and extents of cowcod closure areas (5-1)

# Marine protected areas that affect nearshore finfish

A series of three maps (5-2 through 5-4) of California's coastal region depicts various marine protected areas that are important to nearshore finfish. Recreational and commercial fishing restrictions are labeled for each MPA.

# **Chapter 3 - Fishery Management Program**

#### Ecological boundaries

California's marine ecological boundaries (2-1) are based on the oceanic environment and regional management subdivision. Ecological boundaries are shown to be at:

Oregon border Cape Mendocino Point Conception Mexican Border

#### Range distribution maps

Black rockfish (2-2 and 2-3) and sheephead (2-4) maps are examples of common range distribution of NFMP species along California's waters.

#### General

#### Marine districts

Refer to G-1.

## Gill and trammel net restrictions in the central cost region

Refer to G-2.

#### Fishery charts

Three maps show California divided into northern, central, and southern fishery regions (G-3 through G-5).

# Section 2

# **Environmental Settings**

One map depicts geographic reference points in this chapter (8-1).

## **Consideration and Discussion of Environmental Impacts**

Maps in this section are a series of common range extents of seabirds listed in this section. These include:

Ashy storm-petrel (7-1)

Black storm-petrel (7-2)

California brown pelican (7-3)

California gull (7-4)

Common murre (7-5)

Cormorants: Brandt's; Double-crested; Pacific (7-6)

Elegant tern (7-7)

Fork-tailed storm-petrel (7-8)

Loons: Common; Pacific (7-9)

Marbled murrelet (7-10)

Rhinoceros auklet (7-11)

Tufted puffin (7-12)

Western grebe (7-13)

Xantus murrelet (7-14)



































































































