Establishing a Spatial and Economic Baseline and Assessing Initial Changes in the California South Coast CPFV Fisheries

Report to the California Sea Grant College Program

MAP APPENDIX
MAP APPENDIX

Number of Fish Caught

Pre MPA (2000-2011 yearly average) and
Post MPA (2012)
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – All Fisheries

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas

SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught

Low

High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors.

FINAL MAP PRODUCT AUGUST 7, 2014

FINAL MAP PRODUCT
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**All Ports – Number of Fish Caught – Barred sand bass**

**Pre-MPA (2000-2011)**

- **Source:** California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

- **Source:** California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – California barracuda

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught

Low
High

~ ~ ~ ~ ~ 3nm line

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The annual average number of fish caught (2000-2011) is shown in each landing block.

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – California scorpionfish

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA  SMCA (no take)  SMR  Special Closure

Number of Fish Caught

~ ~ ~ ~ 3nm line
0 5 10 20 Nautical Miles

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

FINAL MAP PRODUCT  AUGUST 7, 2014  FINAL MAP PRODUCT
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Kelp bass

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught

Low

High

~ ~ ~ ~ 3nm line

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The annual average number of fish caught (2000-2011) is shown in each landing block.

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

FINAL MAP PRODUCT
AUGUST 7, 2014
FINAL MAP PRODUCT
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Mackerel

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA: SMCA (no take)  SMR: Special Closure

Number of Fish Caught

Low
High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

Nautical Miles

0  5  10  20

Marine Protected Areas
SMCA: SMCA (no take)  SMR: Special Closure

Number of Fish Caught

Low
High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Pacific bonito

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA, SMCA (no take), SMR, Special Closure

Number of Fish Caught

Low

High

\( \leq \text{annual average number of fish caught (2000-2011)} \)

Source: California Department of Fish and Wildlife
CPFV Logbook Data

SmCA SmR Special Closure SmCA (no take)

Number of Fish Caught

Low

High

\( \leq \text{total number of fish caught (2012)} \)

Source: California Department of Fish and Wildlife
CPFV Logbook Data

FINAL MAP PRODUCT
AUGUST 7, 2014
FINAL MAP PRODUCT
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Ocean whitefish

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA, SMCA (no-take), SMR, Special Closure

Number of Fish Caught

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The annual average number of fish caught (2000-2011) is shown in each landing block.

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Sanddab

Pre-MPA (2000-2011)

Number of Fish Caught

Post-MPA (2012)

Number of Fish Caught

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Scallop

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA, SMCA (no take), SMMR, Special Closure

Number of Fish Caught

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA, SMCA (no take), SMMR, Special Closure

Number of Fish Caught

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Yellowtail

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

FINAL MAP PRODUCT
AUGUST 7, 2014
FINAL MAP PRODUCT
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
All Ports – Number of Fish Caught – Rockfish

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas

Low
High

Number of Fish Caught

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The annual average number of fish caught (2000-2011) is shown in each landing block.

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

FINAL MAP PRODUCT
AUGUST 7, 2014
FINAL MAP PRODUCT
**Santa Barbara – Number of Fish Caught – All Fisheries**

**Pre-MPA (2000-2011)**

- **Santa Barbara**
  - Number of Fish Caught

**Post-MPA (2012)**

- **Santa Barbara**
  - Number of Fish Caught

**Marine Protected Areas**

- **SMCA** (no take), **SMR** (Special Closure)

---

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Santa Barbara – Number of Fish Caught – Ocean whitefish

Pre-MPA (2000-2011)

Post-MPA (2012)

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Santa Barbara – Number of Fish Caught – Rockfish

**Pre-MPA (2000-2011)**

**Post-MPA (2012)**

* The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

**Marine Protected Areas**

- SMCA: Marine Conservation Area
- SMCA (no take): Special Marine Conservation Area
- SMR: Special Management Region

**Number of Fish Caught**

- Low
- High

**3nm line**

Nautical Miles

0 5 10 20

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

AUGUST 7, 2014
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Santa Barbara – Number of Fish Caught – Scallop

**Pre-MPA (2000-2011)**

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

Dana Point

Oceanside

Mission Bay/San Diego

San Diego

**Post-MPA (2012)**

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

Dana Point

Oceanside

Mission Bay/San Diego

San Diego

Marine Protected Areas

SMCA  SMCA (no take)  SMR  Special Closure

**Number of Fish Caught**

Low  High

\* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas

SMCA  SMCA (no take)  SMR  Special Closure

**Number of Fish Caught**

Low  High

\* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

**Post-MPA (2012)**
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Ventura – Number of Fish Caught – All Fisheries

Pre-MPA (2000-2011)

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

San Diego

Oceanside

Mission Bay/San Diego

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

San Diego

Oceanside

Mission Bay/San Diego

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

Post-MPA (2012)

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

San Diego

Oceanside

Mission Bay/San Diego

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

San Diego

Oceanside

Mission Bay/San Diego

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Ventura – Number of Fish Caught – Rockfish

Pre-MPA (2000-2011)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught

Low

High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught

Low

High

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Ventura – Number of Fish Caught – Scallop

Pre-MPA (2000-2011)

Post-MPA (2012)

* The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oxnard/Port Hueneme – Number of Fish Caught – All Fisheries

**Pre-MPA (2000-2011)**

<table>
<thead>
<tr>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>25</td>
</tr>
<tr>
<td>20</td>
<td>31</td>
</tr>
<tr>
<td>12</td>
<td>29</td>
</tr>
<tr>
<td>17</td>
<td>39</td>
</tr>
<tr>
<td>16</td>
<td>64</td>
</tr>
<tr>
<td>5</td>
<td>49</td>
</tr>
<tr>
<td>9</td>
<td>43</td>
</tr>
<tr>
<td>29</td>
<td>3075</td>
</tr>
</tbody>
</table>

**Post-MPA (2012)**

<table>
<thead>
<tr>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>53</td>
<td>311</td>
</tr>
<tr>
<td>51</td>
<td>2</td>
</tr>
<tr>
<td>128</td>
<td>935</td>
</tr>
<tr>
<td>1175</td>
<td>939</td>
</tr>
</tbody>
</table>

*The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

*The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oxnard/Port Hueneme – Number of Fish Caught – Barred sand bass

**Pre-MPA (2000-2011)**

**Post-MPA (2012)**

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

**Marine Protected Areas**
- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**
- Low
- High

**Nautical Miles**
- 0
- 5
- 10
- 20
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oxnard/Port Hueneme – Number of Fish Caught – Kelp bass

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA
SMCA (no take)
SMR
Special Closure

Number of Fish Caught
Low
High

~ ~ ~ ~ 3nm line

Nautical Miles

0 5 10 20

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA
SMCA (no take)
SMR
Special Closure

Number of Fish Caught
Low
High

~ ~ ~ ~ 3nm line

Nautical Miles

0 5 10 20

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oxnard/Port Hueneme – Number of Fish Caught – Ocean whitefish

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure
Number of Fish Caught

Low
High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

FINAL MAP PRODUCT
AUGUST 7, 2014
FINAL MAP PRODUCT
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oxnard/Port Hueneme – Number of Fish Caught – Rockfish

**Pre-MPA (2000-2011)**

*The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data*

**Post-MPA (2012)**

*The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data*
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Los Angeles – Number of Fish Caught – All Fisheries

Pre-MPA (2000-2011)

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Barbara</td>
<td>1</td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td>23</td>
</tr>
<tr>
<td>Ventura</td>
<td>12</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>131</td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>226</td>
</tr>
<tr>
<td>San Pedro</td>
<td>218</td>
</tr>
<tr>
<td>Long Beach</td>
<td>51</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>29</td>
</tr>
<tr>
<td>Dana Point</td>
<td>4</td>
</tr>
<tr>
<td>Oceanside</td>
<td>4</td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>10</td>
</tr>
<tr>
<td>San Diego</td>
<td>6</td>
</tr>
</tbody>
</table>

Post-MPA (2012)

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Barbara</td>
<td>1</td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td>131</td>
</tr>
<tr>
<td>Ventura</td>
<td>226</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>27</td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>267</td>
</tr>
<tr>
<td>San Pedro</td>
<td>3</td>
</tr>
<tr>
<td>Long Beach</td>
<td>12</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>6</td>
</tr>
<tr>
<td>Dana Point</td>
<td>10</td>
</tr>
<tr>
<td>Oceanside</td>
<td>4</td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>9</td>
</tr>
<tr>
<td>San Diego</td>
<td>6</td>
</tr>
</tbody>
</table>

* The annual average number of fish caught (2000-2011) is shown in each landing block.
* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife
CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Los Angeles – Number of Fish Caught – Barred sand bass

Pre-MPA (2000-2011)

Post-MPA (2012)

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught
Low High

3nm line

Nautical Miles

0 5 10 20 25

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught
Low High

3nm line

Nautical Miles

0 5 10 20 25

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught
Low High

3nm line

Nautical Miles

0 5 10 20 25

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught
Low High

3nm line

Nautical Miles

0 5 10 20 25
California South Coast Commercial Passenger Fishing Vessel Landing Blocks

Los Angeles – Number of Fish Caught – California barracuda

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR

Number of Fish Caught
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife
CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife
CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Los Angeles – Number of Fish Caught – California scorpionfish

Pre-MPA (2000-2011)

Post-MPA (2012)

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
FINIAL MAP PRODUCT AUGUST 7, 2014 FINAL MAP PRODUCT
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Los Angeles – Number of Fish Caught – Kelp bass**

### Pre-MPA (2000-2011)

*The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data*

### Post-MPA (2012)

*The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data*
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Los Angeles – Number of Fish Caught – Rockfish**

**Pre-MPA (2000-2011)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

**Post-MPA (2012)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

---

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- Special Closure

**Number of Fish Caught**

- **Low**
- **High**

---

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Los Angeles – Number of Fish Caught – Sanddab

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas

- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught

Low

High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

FINAL MAP PRODUCT
AUGUST 7, 2014
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – All Fisheries

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught
Low High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Redondo Beach – Number of Fish Caught – Barred sand bass**

**Pre-MPA (2000-2011)**

- **Number of Fish Caught**
  - Low
  - High

- **3nm line**

- **Marine Protected Areas**
  - SMCA
  - SMCA (no take)
  - SMR
  - Special Closure

*The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data*

**Post-MPA (2012)**

- **Number of Fish Caught**
  - Low
  - High

- **3nm line**

- **Marine Protected Areas**
  - SMCA
  - SMCA (no take)
  - SMR
  - Special Closure

*The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data*
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – California barracuda

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – California scorpionfish

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – Kelp bass

***Pre-mpa (2000-2011)***

- **Santa Barbara**
- **Ventura**
- **Oxnard/Port Hueneme**
- **Los Angeles**
- **Long Beach**
- **Redondo Beach**
- **San Pedro**
- **Long Beach**
- **Newport Beach**
- **Dana Point**
- **Oceanside**
- **Mission Bay/San Diego**
- **San Diego**

**Marine Protected Areas**
- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

***Post-Mpa (2012)***

- **Santa Barbara**
- **Ventura**
- **Oxnard/Port Hueneme**
- **Los Angeles**
- **Long Beach**
- **Redondo Beach**
- **San Pedro**
- **Long Beach**
- **Newport Beach**
- **Dana Point**
- **Oceanside**
- **Mission Bay/San Diego**
- **San Diego**

**Marine Protected Areas**
- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**
- Low
- High

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – Mackerel

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA  SMCA (no take)  SMR  Special Closure

Number of Fish Caught
Low  High

~ ~ ~ ~ ~ 3nm line
0 5 10 20 Nautical Miles

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – Pacific bonito

**Pre-MPA (2000-2011)**

**Post-MPA (2012)**

*The annual average number of fish caught (2000-2011) is shown in each landing block.*

Source: California Department of Fish and Wildlife CPFV Logbook Data

*The total number of fish caught (2012) is shown in each landing block.*

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Redondo Beach – Number of Fish Caught – Rockfish

Pre-MPA (2000-2011)

Post-MPA (2012)

* The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught

Low

High

~ ~ ~ ~ 3nm line

3nautical miles

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
San Pedro – Number of Fish Caught – All Fisheries

Pre-MPA (2000-2011)

Marine Protected Areas
SMCA - SMCA (no take) - SMR - Special Closure

Number of Fish Caught

Low

High

3nm line

Source: California Department of Fish and Wildlife
CPFV Logbook Data

Post-MPA (2012)

Marine Protected Areas
SMCA - SMCA (no take) - SMR - Special Closure

Number of Fish Caught

Low

High

3nm line

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife
CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife
CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
San Pedro – Number of Fish Caught – Barred sand bass

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
San Pedro – Number of Fish Caught – California barracuda

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

\[ \text{3nmi line} \]

Nautical Miles
- 0
- 10
- 20

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
San Pedro – Number of Fish Caught – California scorpionfish

Pre-MPA (2000-2011)

- Marine Protected Areas
- Number of Fish Caught
- Source: California Department of Fish and Wildlife CPFV Logbook Data

Post-MPA (2012)

- Marine Protected Areas
- Number of Fish Caught
- Source: California Department of Fish and Wildlife CPFV Logbook Data
San Pedro – Number of Fish Caught – Kelp bass

**Pre-MPA (2000-2011)**

- **Santa Barbara**
- **Ventura**
- **Oxnard/Port Hueneme**
- **Los Angeles**
- **Redondo Beach**
- **San Pedro**
- **Long Beach**
- **Newport Beach**
- **Dana Point**
- **Oceanside**
- **Mission Bay/San Diego**
- **San Diego**

**Number of Fish Caught**

- **Low**
- **High**

*The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data*

**Post-MPA (2012)**

- **Santa Barbara**
- **Ventura**
- **Oxnard/Port Hueneme**
- **Los Angeles**
- **Redondo Beach**
- **San Pedro**
- **Long Beach**
- **Newport Beach**
- **Dana Point**
- **Oceanside**
- **Mission Bay/San Diego**
- **San Diego**

**Number of Fish Caught**

- **Low**
- **High**

*The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data*
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**San Pedro – Number of Fish Caught – Pacific bonito**

**Pre-MPA (2000-2011)**

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

Dana Point

Oceanside

Mission Bay/San Diego

San Diego

**Post-MPA (2012)**

Santa Barbara

Ventura

Oxnard/Port Hueneme

Los Angeles

Redondo Beach

San Pedro

Long Beach

Newport Beach

Dana Point

Oceanside

Mission Bay/San Diego

San Diego

**Marine Protected Areas**

- SMCA: SMCA (no take)
- SMR: Special Closure

**Number of Fish Caught**

- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**3nm line**

Nautical Miles
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**San Pedro – Number of Fish Caught – Rockfish**

### Pre-MPA (2000-2011)

<table>
<thead>
<tr>
<th>Location</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Barbara</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventura</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>143</td>
<td>65</td>
</tr>
<tr>
<td>San Pedro</td>
<td>143</td>
<td>65</td>
</tr>
<tr>
<td>Long Beach</td>
<td>154</td>
<td>780</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>118</td>
<td>80</td>
</tr>
<tr>
<td>Dana Point</td>
<td>4139</td>
<td>14795</td>
</tr>
<tr>
<td>Oceanside</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>780</td>
<td>4630</td>
</tr>
<tr>
<td>San Diego</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Post-MPA (2012)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

### Post-MPA (2012)

<table>
<thead>
<tr>
<th>Location</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Barbara</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ventura</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Los Angeles</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>250</td>
<td>117</td>
</tr>
<tr>
<td>San Pedro</td>
<td>250</td>
<td>117</td>
</tr>
<tr>
<td>Long Beach</td>
<td>601</td>
<td>1222</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>1342</td>
<td>30751</td>
</tr>
<tr>
<td>Dana Point</td>
<td>15357</td>
<td>95</td>
</tr>
<tr>
<td>Oceanside</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>30751</td>
<td>95</td>
</tr>
<tr>
<td>San Diego</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**

- Low
- High

**Source:** California Department of Fish and Wildlife CPFV Logbook Data
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**San Pedro – Number of Fish Caught – Sanddab**

**Pre-MPA (2000-2011)**

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Pedro</td>
<td>15</td>
</tr>
<tr>
<td>Santa Barbara</td>
<td>3</td>
</tr>
<tr>
<td>Ventura</td>
<td>4</td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td>1</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>2</td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>7</td>
</tr>
<tr>
<td>San Pedro</td>
<td>2</td>
</tr>
<tr>
<td>Long Beach</td>
<td>1</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>1</td>
</tr>
<tr>
<td>Dana Point</td>
<td>1</td>
</tr>
<tr>
<td>Oceanside</td>
<td>1</td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>1</td>
</tr>
<tr>
<td>San Diego</td>
<td>1</td>
</tr>
</tbody>
</table>

**Post-MPA (2012)**

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>San Pedro</td>
<td>28</td>
</tr>
<tr>
<td>Santa Barbara</td>
<td>4</td>
</tr>
<tr>
<td>Ventura</td>
<td>35</td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td>8</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>13</td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>28</td>
</tr>
<tr>
<td>San Pedro</td>
<td>10</td>
</tr>
<tr>
<td>Long Beach</td>
<td>28</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>37</td>
</tr>
<tr>
<td>Dana Point</td>
<td>1</td>
</tr>
<tr>
<td>Oceanside</td>
<td>1</td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>1</td>
</tr>
<tr>
<td>San Diego</td>
<td>1</td>
</tr>
</tbody>
</table>

*The annual average number of fish caught (2000-2011) is shown in each landing block.*

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

**Final Map Product**

**AUGUST 7, 2014**

**Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors**
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Long Beach – Number of Fish Caught – Barred sand bass

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA, SMCA (no take), SMR, Special Closure

Number of Fish Caught
Low High

Source: California Department of Fish and Wildlife CPFV Logbook Data

* The annual average number of fish caught (2000-2011) is shown in each landing block.

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Long Beach – Number of Fish Caught – California barracuda

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA - SMCA (no take) - SMR - Special Closure

Number of Fish Caught
Low
High

3nm line

Nautical Miles

0 10 20

\* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

\* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Long Beach – Number of Fish Caught – California scorpionfish

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA  SMCA (no take)  SMR  Special Closure

Number of Fish Caught

Low

High

"km" 3nm line

Nautical Miles

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

FINAL MAP PRODUCT
AUGUST 7, 2014
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Long Beach – Number of Fish Caught – Rockfish**

---

### Pre-MPA (2000-2011)

- **Santa Barbara**: 23, 162, 75
- **Ventura**: 8, 13, 1
- **Oxnard/Port Hueneme**: 10, 1, 1
- **Los Angeles**: 2, 81
- **Redondo Beach**: 2, 133
- **San Pedro**: 1477
- **Long Beach**: 1735
- **Newport Beach**: 1159
- **Mission Bay/San Diego**: 157
- **San Diego**: 179

### Post-MPA (2012)

- **Santa Barbara**: 6, 70
- **Ventura**: 5
- **Oxnard/Port Hueneme**: 1013
- **Los Angeles**: 6, 26234
- **Redondo Beach**: 43
- **San Pedro**: 2320
- **Long Beach**: 3827
- **Newport Beach**: 2167
- **Mission Bay/San Diego**: 188
- **San Diego**: 412

---

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**

- Low
- High

---

*The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
* The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Newport Beach – Number of Fish Caught – All Fisheries

Pre-MPA (2000-2011)

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Post-MPA (2012)

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA - SMCA (no take) - SMR - Special Closure

Number of Fish Caught
Low
High

0 5 10 20
Nautical Miles

SMCA SMR Special Closure

Number of Fish Caught
Low
High

0 5 10 20
Nautical Miles

SMCA SMR Special Closure

Source: Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Newport Beach – Number of Fish Caught – Barred sand bass

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught

Low
High

~ ~ ~ ~ 3nm line

0 5 10 20 Nautical Miles

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught

Low
High

~ ~ ~ ~ 3nm line

0 5 10 20 Nautical Miles

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Newport Beach – Number of Fish Caught – California barracuda

Post-MPA (2012)

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Pre-MPA (2000-2011)

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Marine Protected Areas
SMCA - SMCA (no take) - SMR - Special Closure

Number of Fish Caught
Low
High

~ ~ ~ ~ ~ 3nm line

Nautical Miles

0 5 10 20
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Newport Beach – Number of Fish Caught – California scorpionfish

Marine Protected Areas

Number of Fish Caught

Low - High

Post-MPA (2012)

Source: California Department of Fish and Wildlife
CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife
CPFV Logbook Data

Pre-MPA (2000-2011)

Source: California Department of Fish and Wildlife
CPFV Logbook Data

* The annual average number of fish caught (2000-2011) is shown in each landing block.

SMCA SMR Special Closure

3nm line

Marine Protected Areas

Eszri, DeLorme, GEBCO, NOAA NGDC, and other contributors
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Newport Beach – Number of Fish Caught – Kelp bass**

**Pre-MPA (2000-2011)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

* The annual average number of fish caught (2000-2011) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

* The total number of fish caught (2012) is shown in each landing block. Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Newport Beach – Number of Fish Caught – Pacific bonito

**Pre-MPA (2000-2011)**

- **Santa Barbara**
- **Ventura**
- **Oxnard/Port Hueneme**
- **Los Angeles**
- **Redondo Beach**
- **San Pedro**
- **Long Beach**
- **Newport Beach**
- **Dana Point**
- **Oceanside**
- **Mission Bay/San Diego**
- **San Diego**

The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

- **Santa Barbara**
- **Ventura**
- **Oxnard/Port Hueneme**
- **Los Angeles**
- **Redondo Beach**
- **San Pedro**
- **Long Beach**
- **Newport Beach**
- **Dana Point**
- **Oceanside**
- **Mission Bay/San Diego**
- **San Diego**

The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Newport Beach – Number of Fish Caught – Rockfish

**Pre-MPA (2000-2011)**

Marine Protected Areas

- **SMCA**
- **SMCA (no take)**
- **SMR**
- **Special Closure**

**Number of Fish Caught**

- **Low**
- **High**

```
0 5 10 20 Nautical Miles
```

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

Marine Protected Areas

- **SMCA**
- **SMCA (no take)**
- **SMR**
- **Special Closure**

**Number of Fish Caught**

- **Low**
- **High**

```
0 5 10 20 Nautical Miles
```

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Dana Point – Number of Fish Caught – All Fisheries**

**Pre-MPA (2000-2011)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

**Post-MPA (2012)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

*The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data*
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Dana Point – Number of Fish Caught – Barred sand bass

**Pre-MPA (2000-2011)**

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Barbara</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>Ventura</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>60</td>
<td>1</td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>San Pedro</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Long Beach</td>
<td>1</td>
<td>46</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Dana Point</td>
<td>8</td>
<td>54</td>
</tr>
<tr>
<td>Oceanside</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mission Bay/San Diego</td>
<td>27</td>
<td>2</td>
</tr>
</tbody>
</table>

**Post-MPA (2012)**

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Santa Barbara</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>Ventura</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Oxnard/Port Hueneme</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>Los Angeles</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Redondo Beach</td>
<td>11</td>
<td>17</td>
</tr>
<tr>
<td>San Pedro</td>
<td>16</td>
<td>1867</td>
</tr>
<tr>
<td>Long Beach</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>Newport Beach</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>Dana Point</td>
<td>1</td>
<td>16</td>
</tr>
<tr>
<td>Oceanside</td>
<td>465</td>
<td>886</td>
</tr>
</tbody>
</table>

**Marine Protected Areas**
- SMCA
- SMR Special Closure
- SMCA (no take)

*The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data*

*The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data*
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Dana Point – Number of Fish Caught – California barracuda**

**Pre-MPA (2000-2011)**

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

---

*Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors.*
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Dana Point – Number of Fish Caught – Kelp bass

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA, SMCA (no take), SMR, Special Closure

Number of Fish Caught

Low
High

Nautical Miles

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Dana Point – Number of Fish Caught – Mackerel

**Pre-MPA (2000-2011)**

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Dana Point – Number of Fish Caught – Rockfish

**Pre-MPA (2000-2011)**

* The annual average number of fish caught (2000-2011) is shown in each landing block. 
Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

* The total number of fish caught (2012) is shown in each landing block. 
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oceanside – Number of Fish Caught – All Fisheries

**Pre-MPA (2000-2011)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>~ ~ ~ ~ 3nm line</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
<th>Low</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>~ ~ ~ ~ 3nm line</td>
<td>0</td>
<td>20</td>
</tr>
</tbody>
</table>

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

---

*Final Map Product*

**AUGUST 7, 2014**

---

*Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors*
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oceanside – Number of Fish Caught – Barred sand bass

Post-MPA (2012)

Marine Protected Areas
SMCA   SMCA (no take)   SMR   Special Closure
Low   High

Number of Fish Caught
0  5  10  20  30  40  50  60  70  80  90  100

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Pre-MPA (2000-2011)

Marine Protected Areas
SMCA   SMCA (no take)   SMR   Special Closure
Low   High

Number of Fish Caught
0  5  10  20  30  40  50  60  70  80  90  100

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oceanside – Number of Fish Caught – California barracuda

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA SMCA (no take) SMR Special Closure

Number of Fish Caught
Low High

3nm line

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oceanside – Number of Fish Caught – California scorpionfish

Pre-MPA (2000-2011)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Post-MPA (2012)

Marine Protected Areas
- SMCA
- SMCA (no take)
- SMR
- Special Closure

Number of Fish Caught
- Low
- High

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

FINAL MAP PRODUCT
AUGUST 7, 2014
FINAL MAP PRODUCT
California South Coast Commercial Passenger Fishing Vessel Landing Blocks
Oceanside – Number of Fish Caught – Kelp bass

Pre-MPA (2000-2011)

Post-MPA (2012)

Marine Protected Areas
SMCA  SMCA (no take)  SMR  Special Closure

Number of Fish Caught
Low
High

\~\~\~\~\~\~ 3nm line

0 5 10 20 Nautical Miles

* The annual average number of fish caught (2000-2011) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

* The total number of fish caught (2012) is shown in each landing block.
Source: California Department of Fish and Wildlife CPFV Logbook Data

Esri, DeLorme, GEBCO, NOAA NGDC, and other contributors

FINAL MAP PRODUCT  AUGUST 7, 2014  FINAL MAP PRODUCT
**California South Coast Commercial Passenger Fishing Vessel Landing Blocks**

**Oceanside – Number of Fish Caught – Mackerel**

**Pre-MPA (2000-2011)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low 1 4 1</td>
</tr>
<tr>
<td>High 13 4 4</td>
</tr>
</tbody>
</table>

**Post-MPA (2012)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low 2 2 1 2 1</td>
</tr>
<tr>
<td>High 18 12 279 214 70</td>
</tr>
</tbody>
</table>

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**

- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**

- Low
- High

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Post-MPA (2012)**

- Santa Barbara
- Ventura
- Oxnard/Port Hueneme
- Los Angeles
- Redondo Beach
- San Pedro
- Long Beach
- Newport Beach
- Dana Point
- Oceanside
- Mission Bay/San Diego
- San Diego

<table>
<thead>
<tr>
<th>Number of Fish Caught</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low 2 2 1 2 1</td>
</tr>
<tr>
<td>High 18 12 279 214 70</td>
</tr>
</tbody>
</table>

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**

- Low
- High

* The annual average number of fish caught (2000-2011) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data

**Marine Protected Areas**

- SMCA
- SMCA (no take)
- SMR
- Special Closure

**Number of Fish Caught**

- Low
- High

* The total number of fish caught (2012) is shown in each landing block.

Source: California Department of Fish and Wildlife CPFV Logbook Data