

**California Marine Life Protection Act Initiative
South Coast Study Region: Round 1 Evaluation
Staff Summary of Area and Habitats in
Draft MPA Array Topaz B
Revised April 23, 2009**

Summary of MPAs by Designation for Draft MPA Array Topaz B

| Type of MPA ¹ | # of MPAs | Area (mi ²) | % of Study Region |
|--|-----------|-------------------------|-------------------|
| State Marine Reserve (SMR) | 25 | 237.6 | 10.1% |
| State Marine Recreational Managed Area (SMRMA) | 0 | 0.0 | 0.0% |
| State Marine Park (SMP) | 5 | 2.3 | 0.1% |
| State Marine Conservation Area (SMCA) | 25 | 105.0 | 4.5% |
| Undesignated ² | 3 | 61.9 | 2.6% |
| All MPAs combined | 58 | 406.7 | 17.3% |

¹ Note: These are proposed marine protected area (MPA) designations, NOT levels of protection assigned by the MLPA Master Plan Science Advisory Team (SAT). SMRMA is not a MPA designation, but a marine managed area designation.

² Note: These are the pending military closures, if they were included in the proposal.

Summary of MPAs by Level of Protection for Draft MPA Array Topaz B

| Level of Protection (LOP) | # Proposed | Area (mi ²) | % of Study Region |
|---------------------------|------------|-------------------------|-------------------|
| Very High ³ | 28 | 299.4 | 12.7% |
| High | 0 | 0.0 | 0.0% |
| Moderate-High | 2 | 9.0 | 0.4% |
| Moderate | 3 | 5.5 | 0.2% |
| Low ⁴ | 25 | 92.8 | 3.9% |
| Total | 58 | 406.7 | 17.3% |

³ Note: Includes MPAs with SMR designation and pending military closures that were not assigned a designation.

⁴ Note: The Low category groups together MPAs that are assigned a moderate-low and lower level of protection.

Individual MPAs in Draft MPA Array Topaz B

| MPA Name | Size (mi ²) | Along-shore Span ⁶ (mi) | Depth Range (ft) |
|-----------------------------------|-------------------------|------------------------------------|------------------|
| Richardson Rock SMR ⁵ | 40.69 | 6.3 | 95 - 558 |
| Judith Rock SMR ⁵ | 4.55 | 1.2 | 0 - 487 |
| Harris Point SMR ⁵ | 25.35 | 5.4 | 0 - 557 |
| South Point SMR ⁵ | 13.05 | 3.5 | 0 - 1071 |
| Carrington Point SMR ⁵ | 12.76 | 4.0 | 0 - 211 |
| Skunk Point SMR ⁵ | 1.39 | 2.2 | 0 - 83 |
| Painted Cave SMCA ⁵ | 1.78 | 1.9 | 0 - 291 |
| Gull Island SMR ⁵ | 19.91 | 4.8 | 0 - 2205 |
| Scorpion SMR ⁵ | 9.62 | 2.6 | 0 - 769 |
| Footprint SMR ⁵ | 7.05 | 4.7 | 171 - 1656 |
| Anacapa Island SMCA ⁵ | 7.30 | 2.0 | 0 - 490 |

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| MPA Name | Size (mi²) | Along-shore Span⁶ (mi) | Depth Range (ft) |
|--|------------------------------|--|-------------------------|
| Anacapa Island SMR ⁵ | 11.54 | 3.1 | 0 - 709 |
| Santa Barbara Island SMR ⁵ | 12.76 | 1.0 | 0 - 1655 |
| Point Conception_SMR_TopB_01 | 26.11 | 6.6 | 0 - 489 |
| Refugio_SMCA_TopB_01 | 1.00 | 2.5 | 0 - 51 |
| UCSB_SMR_TopB_01 | 9.91 | 2.7 | 0 - 635 |
| Deveraux_SMP_TopB_01 | 0.09 | N/A | N/A |
| Goleta_SMP_TopB_01 | 0.25 | N/A | N/A |
| Carp Marsh_SMR_TopB_01 | 0.28 | N/A | N/A |
| Mugu SMCA TopB_01 | 8.80 | 2.5 | 0 - 1680 |
| Mugu_SMR_TopB_01 | 12.89 | 3.6 | 0 - 1476 |
| Muwu_SMP_TopB_01 | 1.44 | N/A | N/A |
| Malibu SMCA_TopB_01 | 3.61 | 1.0 | 0 - 549 |
| Malibu_SMR_TopB_01 | 14.69 | 4.1 | 0 - 455 |
| Palos Verdes SMCA_TopB_01 | 17.43 | 4.0 | 0 - 2640 |
| Palos Verdes Scientific 1 SMCA TopB_01 | 0.13 | 0.3 | 0 - 70 |
| Palos Verdes Science 2 SMCA_TopB_01 | 0.09 | 0.3 | 0 - 57 |
| Point Fermin_SMCA_TopB_01 | 0.07 | 0.6 | 0 - 20 |
| Bolsa Chica_SMP_TopB_01 | 0.25 | N/A | N/A |
| Upper Newport Estuary SMCA TopB 01 | 1.00 | N/A | N/A |
| Crystal Cove SMCA TopB 01 | 0.51 | 3.7 | 0 - 44 |
| Laguna Beach_SMCA_TopB_01 | 10.82 | 2.8 | 0 - 1801 |
| Laguna Scientific 2 SMCA TopB_01 | 0.14 | 0.4 | 15 - 75 |
| Laguna Scientific 1 SMCA TopB_01 | 0.07 | 0.4 | 0 - 41 |
| Laguna South Tide Pool SMCA_TopB_01 | 0.40 | 2.2 | 0 - 35 |
| Dana Point SMCA_TopB_01 | 1.06 | 2.6 | 0 - 60 |
| Doheny Beach SMCA_TopB_01 | 0.10 | 0.7 | 0 - 10 |
| Agua Hedionda Lagoon SMR_TopB 01 | 0.05 | N/A | N/A |
| Batiquitos Lagoon_SMR_TopB 01 | 0.26 | N/A | N/A |
| San Elijo Lagoon SMR_TopB 01 | 0.44 | N/A | N/A |
| Del Mar North SMCA TopB 01 | 4.01 | 1.1 | 0 - 1095 |
| Del Mar SMR TopB 01 | 10.38 | 2.9 | 0 - 1057 |
| Del Mar South SMCA TopB 01 | 5.12 | 1.4 | 0 - 1057 |
| San Dieguito Lagoon SMR TopB 01 | 0.52 | N/A | N/A |
| Carmel Valley SMR TopB 01 | 0.35 | N/A | N/A |
| La Jolla North SMR TopB 01 | 0.77 | 1.1 | 0 - 214 |
| Point Loma SMCA TopB 01 | 0.26 | 1.2 | 0 - 22 |
| South San Diego Bay_SMCA_TopB_02 | 5.41 | N/A | N/A |
| Imperial Beach SMCA_TopB_01 | 10.49 | 3.0 | 0 - 99 |
| Imperial Beach Wetlands SMR TopB 01 | 0.69 | N/A | N/A |
| Catalina Isthmus SMCA TopB 01 | 5.05 | 2.4 | 0 - 1020 |
| Catalina Inside SMCA TopB 02 | 20.30 | 5.3 | 0 - 2735 |
| Catalina Harbor_SMP_TopB 01 | 0.25 | 0.5 | 0 - 186 |
| Catalina Farnsworth SMR TopB 01 | 1.53 | 1.1 | 135 - 312 |
| Lover's Cove_SMCA TopB 01 | 0.02 | 0.3 | 0 - 10 |
| Pending Military Closure SNI_01 | 25.20 | 7.0 | 0 - 288 |

| MPA Name | Size (mi ²) | Along-shore Span ⁶ (mi) | Depth Range (ft) |
|------------------------------------|-------------------------|------------------------------------|------------------|
| Pending Military Closures SCI 1_01 | 17.44 | 3.9 | 0 - 1682 |
| Pending Military Closures SCI 2_01 | 19.24 | 5.4 | 0 - 3938 |

⁵ Note: The Northern Channel Islands MPAs are to be part of all proposals, as directed by the California Fish and Game Commission and are notated by the footnote. MPAs listed below the broken line are those being proposed.

⁶ Note: Alongshore span measured as direct line from one end of the MPA to the other. Estuarine MPAs are not given an alongshore span.

Habitat Representation in Draft MPA Array Topaz B

| Habitat | Area ⁷ (sq. mi) and percentage of mapped habitat in proposal | | | | | | | | | |
|-------------------------|---|-----|-------|-----|-------|-----|-------|-----|------------|-----|
| | SMR ⁸ | | SMRMA | | SMP | | SMCA | | Total MPAs | |
| | Area | % | Area | % | Area | % | Area | % | Area | % |
| Intertidal | | | | | | | | | | |
| Sandy or gravel beach* | 31.29 | 8% | 0.00 | 0% | 2.49 | 1% | 25.39 | 7% | 59.16 | 16% |
| Rocky shores* | 43.78 | 16% | 0.00 | 0% | 0.70 | <1% | 21.04 | 7% | 65.53 | 23% |
| Hardened shores*, 9, 10 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A |
| Coastal marsh* | 18.02 | 30% | 0.00 | 0% | 14.61 | 25% | 8.07 | 14% | 40.70 | 68% |
| Coastal marsh | 1.46 | 24% | 0.00 | 0% | 1.01 | 16% | 0.90 | 15% | 3.37 | 55% |
| Tidal flats* | 2.02 | 7% | 0.00 | 0% | 3.04 | 11% | 1.71 | 6% | 6.77 | 24% |
| Seagrass beds | | | | | | | | | | |
| Surfgrass* | 14.27 | 20% | 0.00 | 0% | 0.00 | 0% | 1.29 | 2% | 15.56 | 21% |
| Eelgrass | 0.05 | 1% | 0.00 | 0% | 0.00 | 0% | 1.70 | 36% | 1.75 | 37% |
| Estuary | | | | | | | | | | |
| Estuary | 2.59 | 6% | 0.00 | 0% | 2.03 | 5% | 6.41 | 15% | 11.03 | 25% |
| Soft bottom | | | | | | | | | | |
| 0-30 meters | 29.37 | 7% | 0.00 | 0% | 0.05 | <1% | 15.06 | 3% | 44.49 | 10% |
| 0-30 meters proxy*, 11 | 38.70 | 11% | 0.00 | 0% | 0.67 | <1% | 21.25 | 6% | 60.62 | 17% |
| 30-100 meters | 24.90 | 4% | 0.00 | 0% | 0.04 | <1% | 5.33 | 1% | 30.27 | 5% |
| 100-200 meters | 21.72 | 14% | 0.00 | 0% | 0.00 | 0% | 9.96 | 6% | 31.68 | 20% |
| >200 meters | 5.03 | 2% | 0.00 | 0% | 0.00 | 0% | 41.05 | 18% | 46.08 | 20% |
| Hard bottom | | | | | | | | | | |
| 0-30 meters | 13.26 | 12% | 0.00 | 0% | 0.02 | <1% | 5.52 | 5% | 18.80 | 17% |
| 0-30 meters proxy*, 11 | 26.07 | 14% | 0.00 | 0% | 0.07 | <1% | 10.75 | 6% | 36.90 | 19% |
| 30-100 meters | 12.73 | 27% | 0.00 | 0% | 0.00 | 0% | 0.17 | <1% | 12.90 | 27% |
| 100-200 meters | 0.76 | 19% | 0.00 | 0% | 0.00 | 0% | 0.12 | 3% | 0.87 | 22% |
| >200 meters | 0.00 | 0% | 0.00 | 0% | 0.00 | 0% | 0.16 | 7% | 0.16 | 8% |
| Unknown | | | | | | | | | | |
| 0-30 meters | 6.17 | 4% | 0.00 | 0% | 2.16 | 1% | 9.09 | 6% | 17.43 | 11% |
| 30-100 meters | 34.48 | 16% | 0.00 | 0% | 0.00 | 0% | 1.33 | 1% | 35.81 | 17% |
| 100-200 meters | 27.90 | 25% | 0.00 | 0% | 0.00 | 0% | 0.90 | 1% | 28.80 | 25% |

| Habitat | Area ⁷ (sq. mi) and percentage of mapped habitat in proposal | | | | | | | | | |
|---------------------|---|-----|-------|----|------|----|------|-----|------------|-----|
| | SMR ⁸ | | SMRMA | | SMP | | SMCA | | Total MPAs | |
| | Area | % | Area | % | Area | % | Area | % | Area | % |
| >200 meters | 45.04 | 22% | 0.00 | 0% | 0.00 | 0% | 0.76 | <1% | 45.79 | 23% |
| Kelp forest | | | | | | | | | | |
| Average kelp (area) | 2.73 | 13% | 0.00 | 0% | 0.00 | 0% | 0.25 | 1% | 2.98 | 14% |
| Kelp* | 25.59 | 14% | 0.00 | 0% | 0.00 | 0% | 3.46 | 2% | 29.04 | 16% |

⁷ Note: Habitats measured as an area (mi²) except for those with a * notation. Habitats with a * notation are expressed in linear units (mi).

⁸ Note: Includes MPAs with SMR designation, as well as pending military closures that were not assigned a designation

⁹ Note: Habitat calculations for hardened shores will be generated in subsequent rounds of MPA proposal evaluation.

¹⁰ Note: The "NA" notation is due to the fact that either data is not available or these habitats are not found or are only found in small areas in this study region.

¹¹ Note: There is limited fine scale data for nearshore habitat, shallower than 10-20 meters depth, in the south coast study region. A proxy for this area was created using a line parallel to the coast and classifying the substrate as either hard or soft substrate depending on the dominant habitat type in that area based on available data.