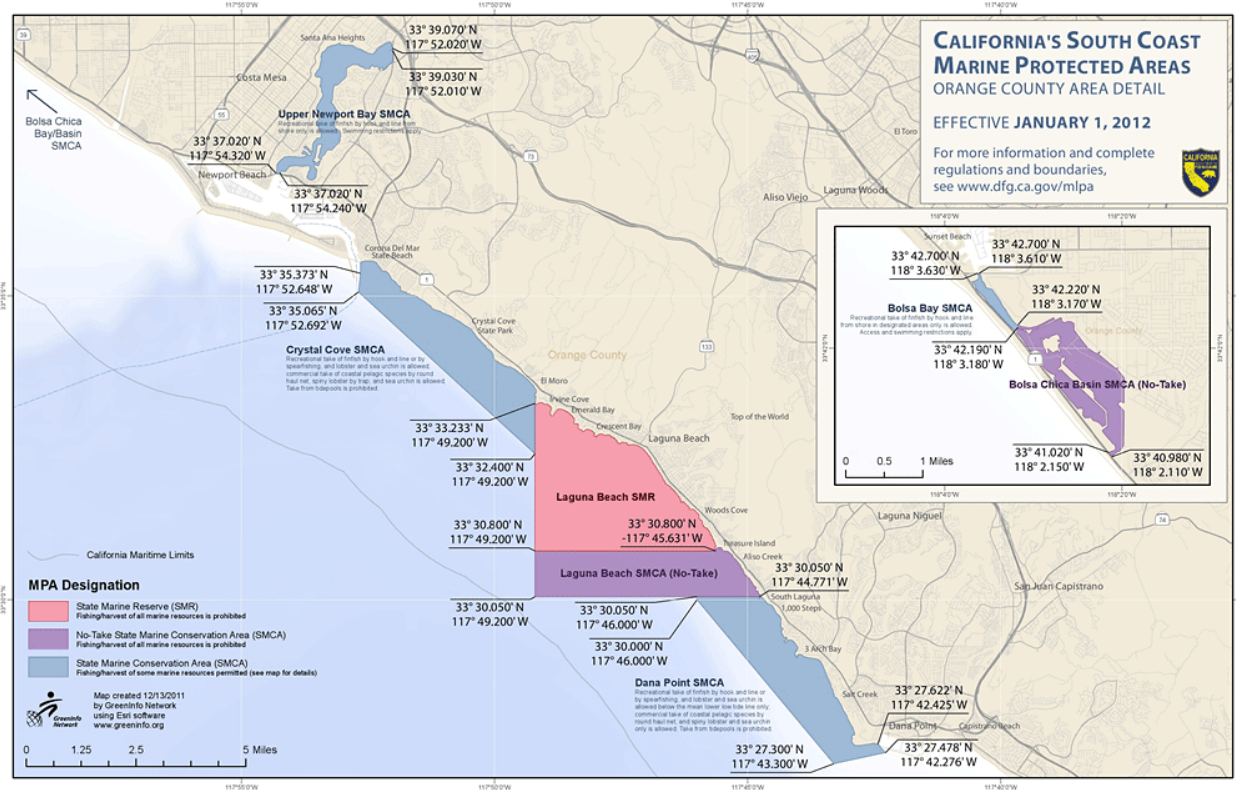


Marine Protected Area Watch Report

Orange County

Date of reporting period: January - December 2018

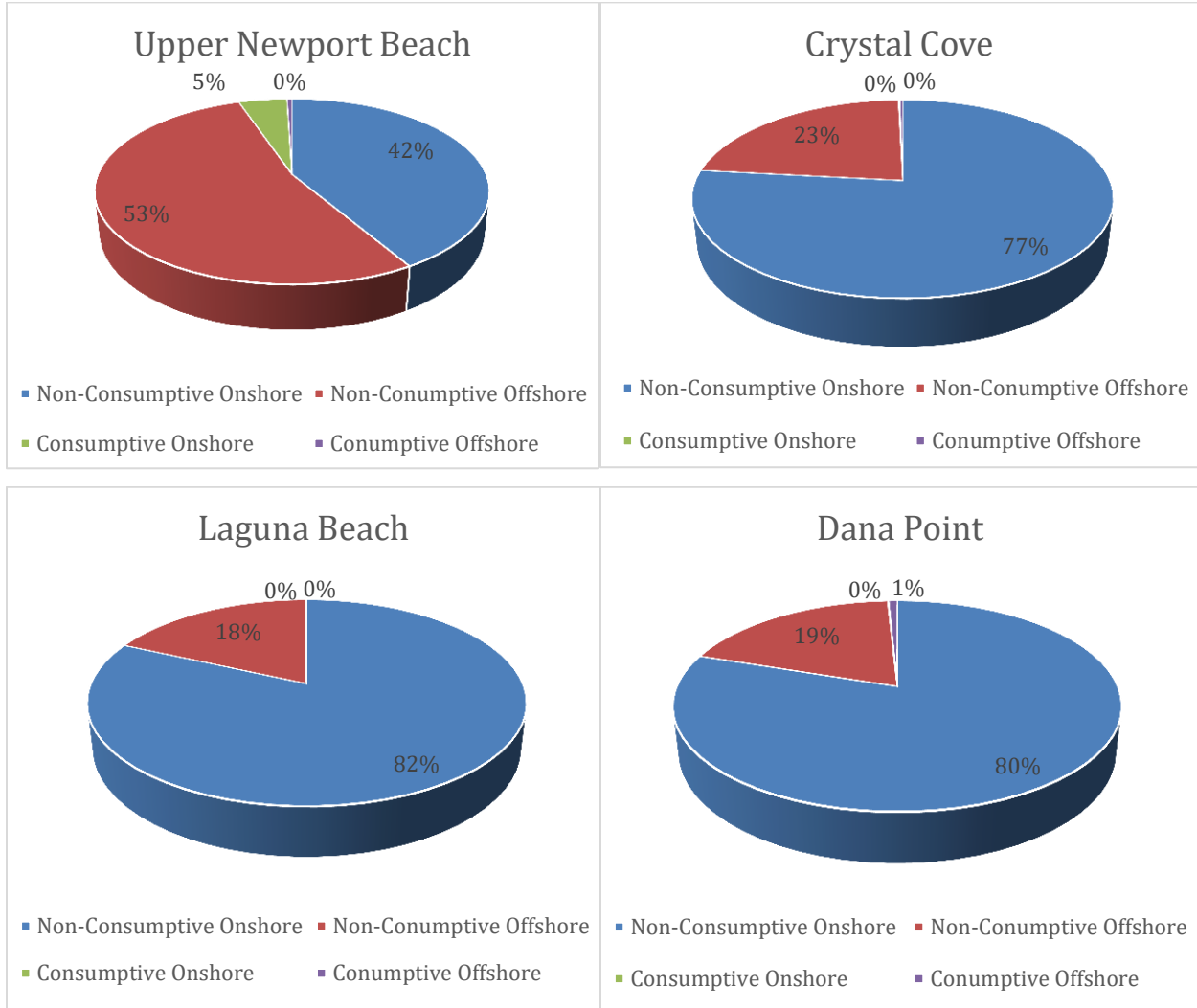


Orange County Coastkeeper (Coastkeeper) is a nonprofit clean water organization that serves as a proactive steward of our fresh- and saltwater ecosystems. We work collaboratively with diverse groups in the public and private sectors to achieve healthy, accessible, and sustainable water resources for the region. We implement innovative, effective programs in education, advocacy, restoration, research, enforcement, and conservation.

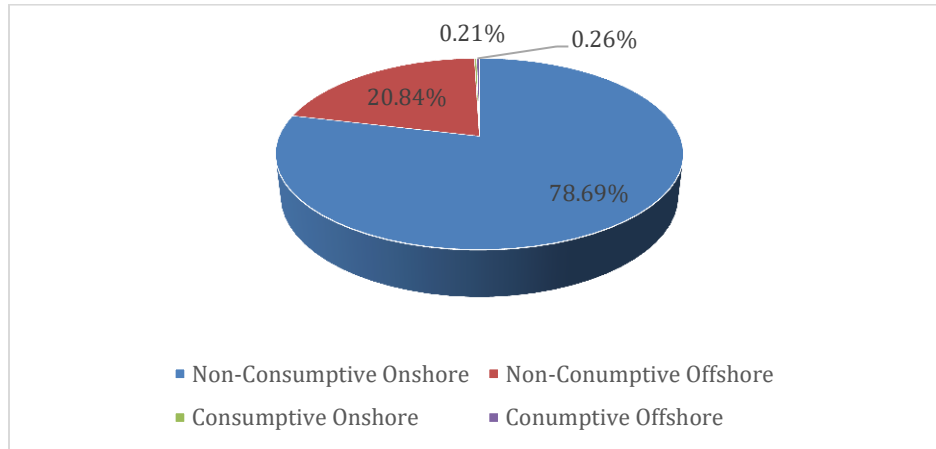
The Orange County Marine Protected Area (OCMPA) Watch Program enlists volunteers, community groups and local government to monitor human activity in the Laguna Beach State Marine Reserve (SMR) and Crystal Cove, Dana Point, Laguna Beach, and Upper Newport Bay State Marine Conservation Areas (SMCAs). MPA Watch is a statewide program with the Orange County component run by Orange County Coastkeeper (OCCK). The goal of MPA watch is to provide information to enhance management and performance of Marine Protected Areas.



Activities Done Within MPAs



Percentage Breakdown for All OC MPA Activities Jan-Dec 2018



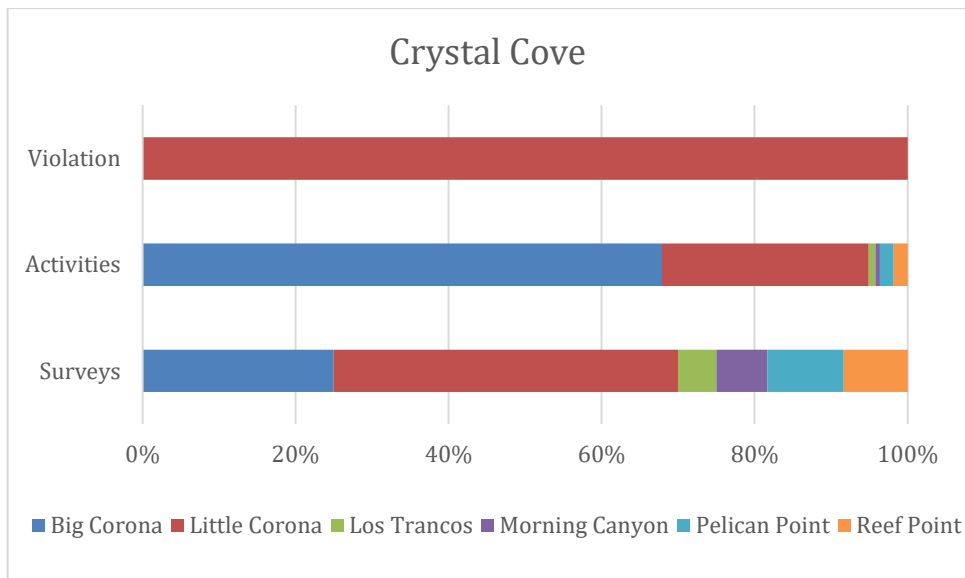
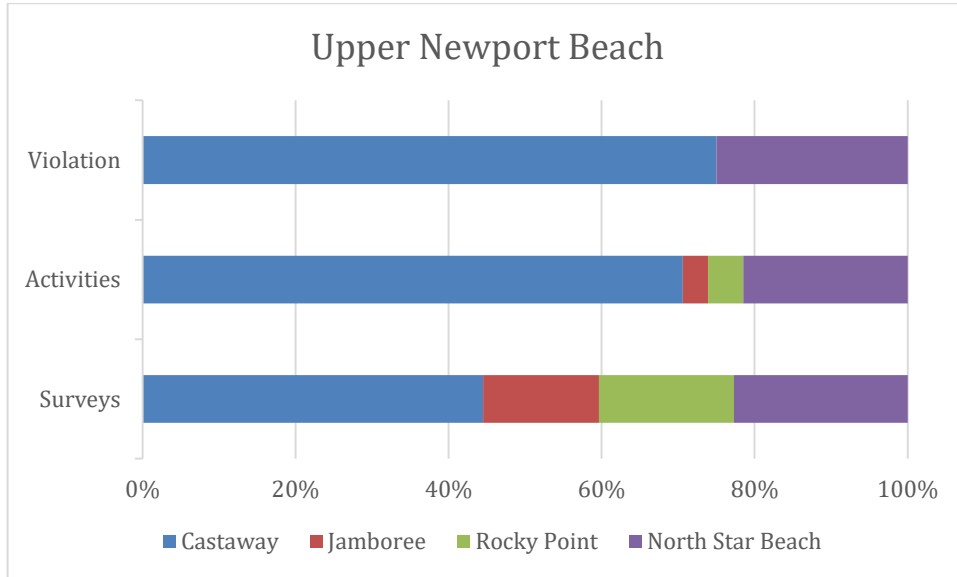
Total MPA Usage

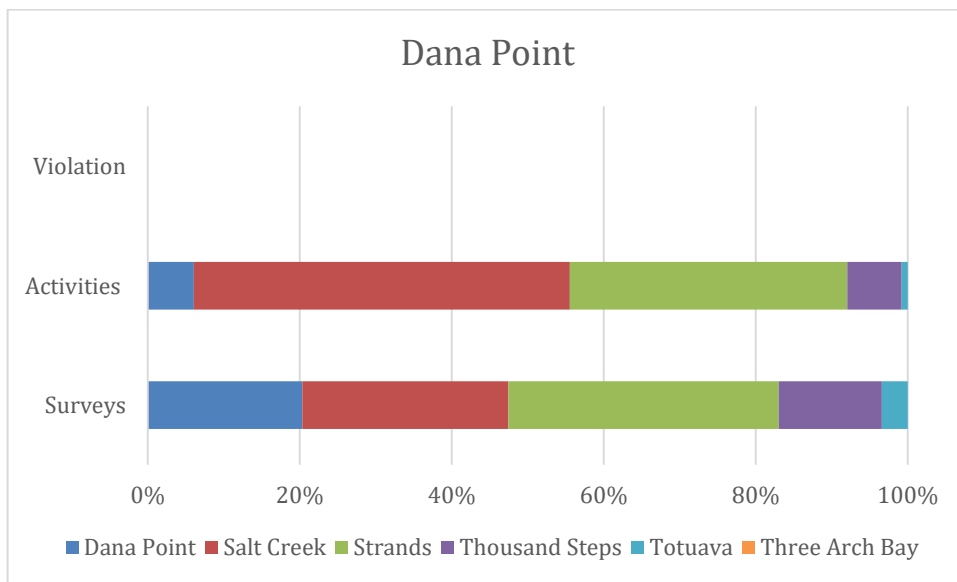
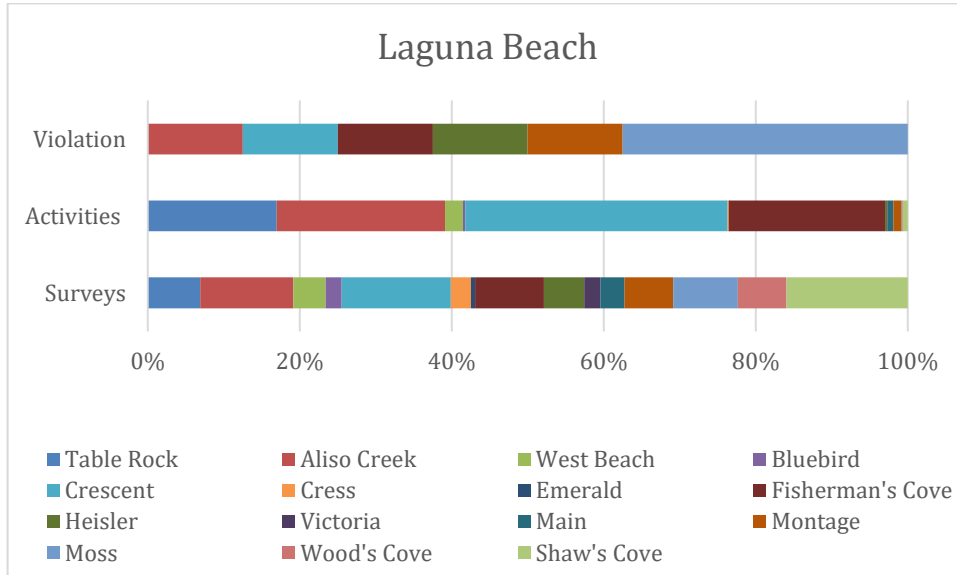
MPAs	Surveys	Activities	Non-Consumptive	Consumptive	On-Shore	Off-Shore	Violation ¹
Upper New Port Bay	119	1585	1502	83	733	852	4
Crystal Cove	60	2332	2322	10	1792	540	2
Laguna Beach	188	6362	6358	4	5206	1156	8
Dana Point	59	5292	5247	45	4244	1048	0

Figure 1 Based on available data for reporting period per square mile

¹ Potential Violations

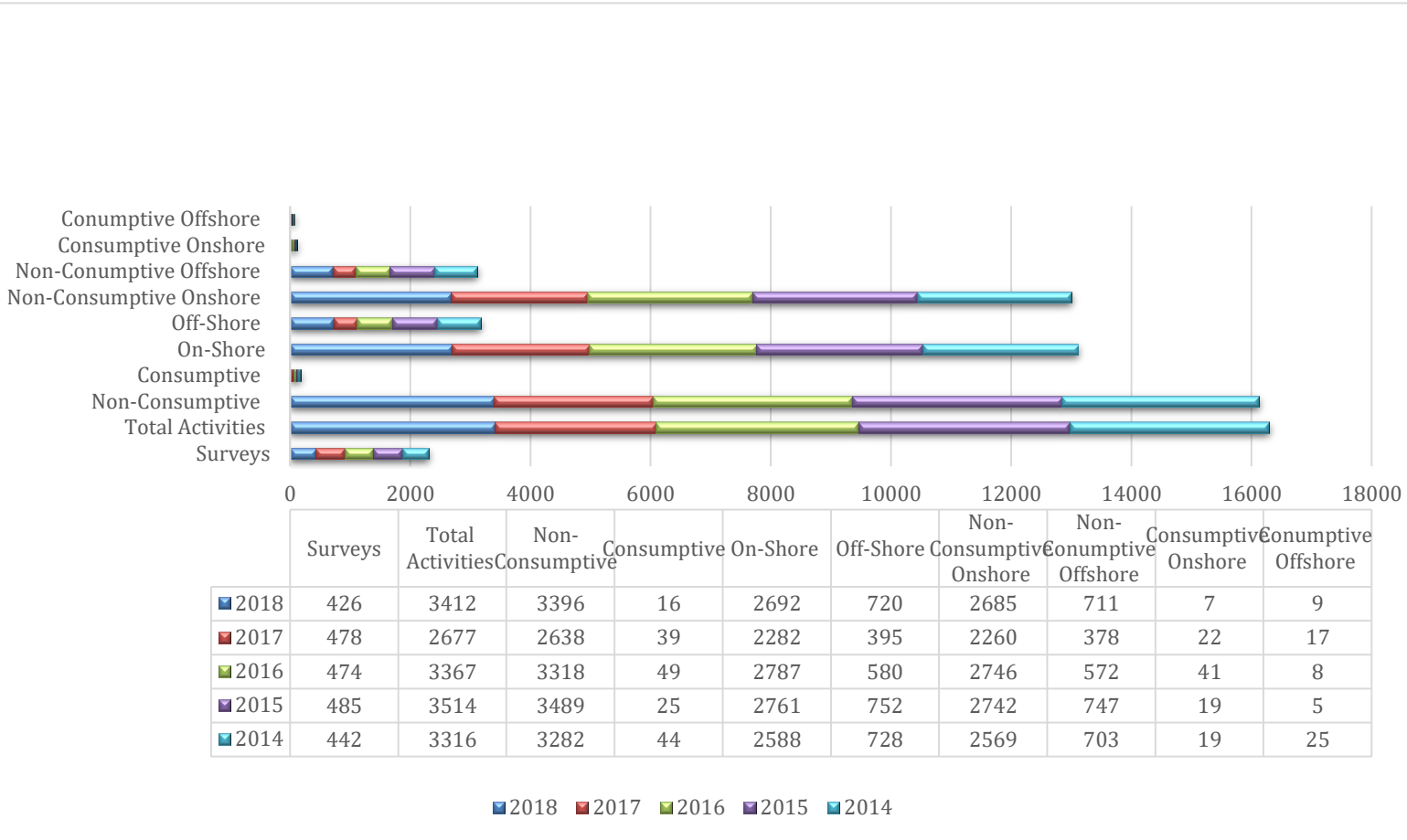
Geographic Distribution of violations, Activities and Surveys within MPAs



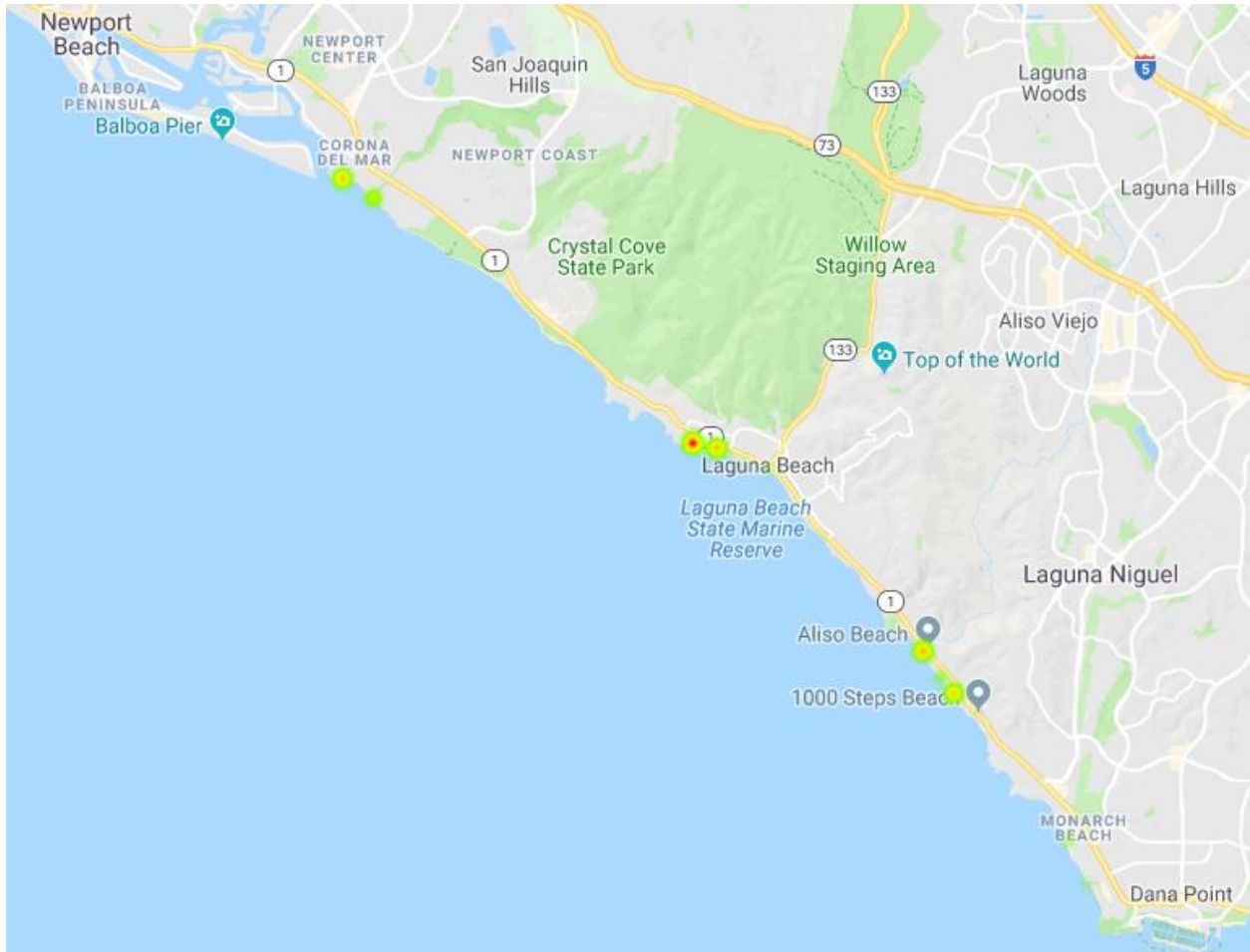




Total MPA Usage 2014-2018



Heat Map



Legend: Green represents few to no violations, red represents maximum amount of violations

Highlights of Upper Newport Bay Data Analysis

95.0% of the Upper Newport Beach coastal uses surveyed since MPA implementation are non-consumptive.

The most popular coastal activity in Upper Newport Beach is general beach recreation (36.5%). Hook Fishing (2%), Trap Fishing (0.1%) and surfing/boogie boarding (6.1%) are also extremely popular. Some noncompliant consumptive activities are present in the MPA, the majority of which are off shore-based line fishing.

During this period (Jan-Dec 2018) we observed four (4) potential MPA violations in the Upper Newport Bay MPA Watch area (Three in Castaway and one in North Star Beach).

Highlights of Crystal Cove Data Analysis

99.6% of the Crystal Cove coastal uses surveyed since MPA implementation are non-consumptive.

The most popular coastal activities in Crystal Cove are general beach recreation (73%). Other common activities are tide pooling (3%) and shore-based hook/trap fishing (0.2%). Some active noncompliant consumptive activities are present in the MPA, which are hand collection of Bio (0.02%).

During this period (Jan-Dec 2018) we observed two (2) potential MPA violations in the Crystal Cove MPA Watch area (Little Corona).

Highlights of Laguna Beach Data Analysis

99.9% of the Laguna Beach coastal uses surveyed since MPA implementation are non-consumptive.

The most popular coastal activity in Laguna Beach is general beach recreation (78%).

Some noncompliant consumptive activities are present in the MPA, which are hand collecting (0.06% of active noncompliant activity).

During this period (Jan-Dec 2018) we observed eight (8) potential MPA violations in the Laguna Beach MPA Watch area (Three in Moss, Crescent, Aliso Creek, Fisherman's Creek, Montage and Heisler).

Highlights of Dana Point Data Analysis

99.0% of the Dana Point coastal uses surveyed since MPA implementation are non-consumptive.

The most popular coastal activity in Dana Point is general beach recreation (79%). Tide pooling (0.9%) and off shore line/net fishing (0.8%).

During this period (Jan-Dec 2018) we did not observe any potential MPA violations in the Dana Point MPA Watch area.

Next Steps

OC Coastkeeper is working to integrate more partners and to implement the MPA Watch into Orange County educational systems.

Additional Information

For additional information regarding Marine Protected Area (MPA) Watch please refer to www.mpawatch.org. There you can find all of the coastal and marine environments that we work to protect across the state of California, who our partners are, and how you can get involved in the conservation of some of our most valuable natural, biological, and cultural resources.