

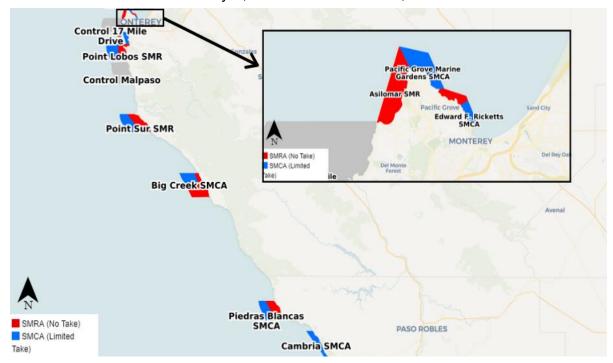


#### Marine Protected Area (MPA) Watch

Regional Report

Central Coast

January 1, 2019 – December 31, 2019



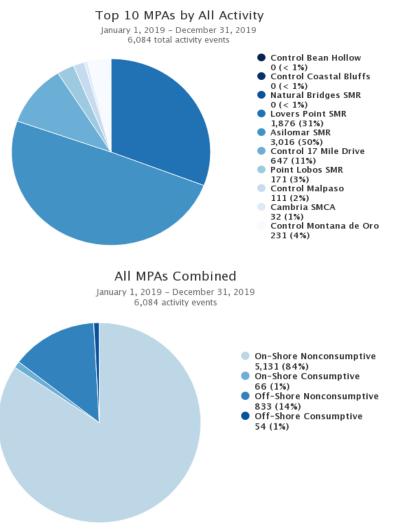
MPA Watch is a statewide collaborative effort to collect critical human use data to enhance the management and conservation of marine protected areas (MPAs). MPA Watch data informs the management, enforcement, and science of California's MPAs and allows us insight on how human uses are changing as a result of MPA implementation. By involving local communities in this important work, MPA Watch programs inspire and empower stewardship, and educate California communities about ocean ecosystems. The (MPA) Watch Program in the Central Coast surveys 7 MPAs, 4 of which volunteers are active and 3 that are inactive and are in need of more volunteers. Currently this program is organized by WILDCOAST, but will be managed by California's State Parks programs in the near future.

#### **Executive Summary**

- The rate of use for the reporting period vs. baseline increased for Lovers Point SMR and Asilomar SMR by 8% and 16% respectively and decreased for Point Lobos SMR and Cambria SMCA by 1% and 10% respectively.
- Año Nuevo SMCA, Natural Bridges SMR, and Point Buchon SMR are not currently surveyed.
- Anecdotal evidence suggests hand collection of biota is occurring in Lovers Point and Asilomar SMRs, where all take is prohibited.

#### Human Use of MPAs January - December 2019



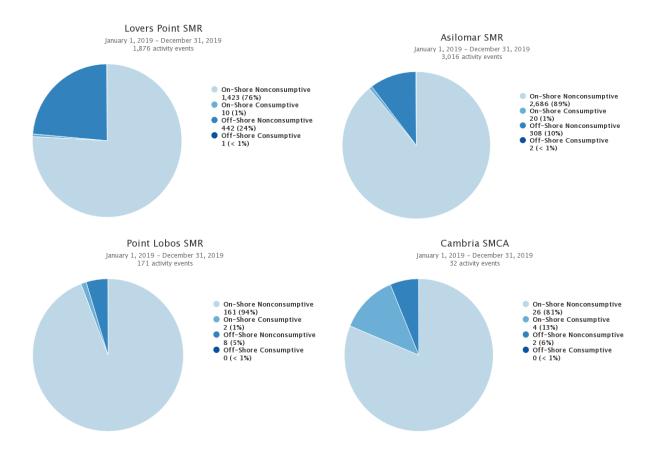


#### Activity Classifications

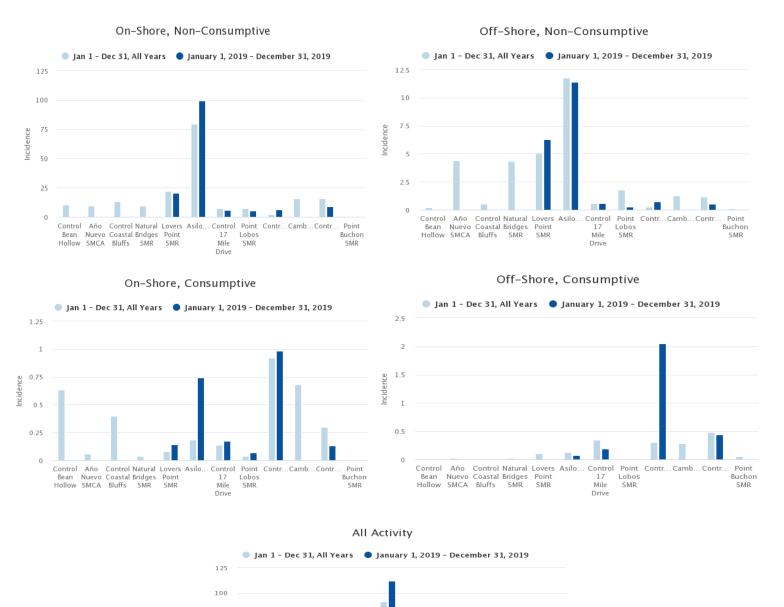
**On-Shore** - Activities that take place on a sandy or rocky beach. Excludes bluffs, trails, sea walls, parking lots, or other man-made structures. Includes recreation, tidepooling, shore-based fishing, etc. **Off-Shore** - Activities that take place offshore, typically in knee-deep water or deeper. Includes surfing, SCUBA diving, kayaking, boat fishing, etc.

**Consumptive -** An activity in which a natural resource (i.e. fish, kelp, shells) is being collected. **Non-Consumptive -** An activity in which a natural resource is not collected.

# Activity by MPA







The above charts show incidence values for each MPA monitored by MPA Watch in the Central Coast. Incidence is calculated as number of activities recorded divided by total survey-miles.

 Control
 Año
 Control Natural
 Lovers
 Asilo...
 Control
 Point
 Contr...Camb...Contr.

 Bean
 Nuevo
 Coastal Bridges
 Point
 17
 Lobos

 Hollow
 SMCA
 Bluffs
 SMR
 SMR
 Mile
 SMR

Drive

0



Point Buchor SMR

				On-S	hore	
		Non-	Con	sumptive	Consu	imptive
МРА	▲ I	Jan 1 Dec 31 Il Years	\$	Jan 1, 2019 through \$ Dec 31, 2019	Jan 1 Dec 31     ¢ All Years	Jan 1, 2019 through \$ Dec 31, 2019
Control Bean Hollow		1	0.6	nan	0.6	nan
Año Nuevo SMCA			9.3	nan	0.1	nan
Control Coastal Bluffs		1	3.1	nan	0.4	nan
Natural Bridges SMR			9.5	nan	0.0	nan
Lovers Point SMR		2	21.7	20.2	0.1	0.1
Asilomar SMR		7	9.3	99.5	0.2	0.7
Control 17 Mile Drive			7.1	6.0	0.1	0.2
Point Lobos SMR			7.2	5.4	0.0	0.1
Control Malpaso			2.1	6.2	0.9	1.0
Cambria SMCA		1	5.9	inf	0.7	inf
Control Montana de Oro		1	5.8	9.0	0.3	0.1
Point Buchon SMR			0.0	nan	0.0	nan
All MPAs Combined		1	6.0	20.1	0.3	0.3

			Off-S	hore	
	Non-	Con	sumptive	Consu	mptive
MPA	▲ Dec 31	Jan 1, 2019 through \$ Dec 31, 2019			
Control Bean Hollow		0.2	nan	0.0	nan
Año Nuevo SMCA		4.4	nan	0.0	nan
Control Coastal Bluffs		0.5	nan	0.0	nan
Natural Bridges SMR		4.3	nan	0.0	nan
Lovers Point SMR		5.1	6.3	0.1	0.0
Asilomar SMR	1	1.7	11.4	0.1	0.1
Control 17 Mile Drive		0.6	0.6	0.4	0.2
Point Lobos SMR		1.8	0.3	0.0	0.0
Control Malpaso		0.3	0.7	0.3	2.1
Cambria SMCA		1.2	inf	0.3	nan
Control Montana de Oro		1.2	0.5	0.5	0.4
Point Buchon SMR		0.1	nan	0.1	nan
All MPAs Combined		2.5	3.3	0.2	0.2

	To	tal
	Com	bined
MPA	Jan 1 Dec 7 ≑ All Years	Jan 1, 2019 through \$ Dec 7, 2019
Control Bean Hollow	11.8	0.0
Año Nuevo SMCA	14.0	0.0
Control Coastal Bluffs	14.3	0.0
Natural Bridges SMR	14.0	0.0
Lovers Point SMR	28.3	26.6
Asilomar SMR	92.5	111.7
Control 17 Mile Drive	8.2	6.9
Point Lobos SMR	9.1	5.7
Control Malpaso	3.6	9.9
Cambria SMCA	18.5	0.0
Control Montana de Oro	17.9	10.0
Point Buchon SMR	0.2	0.0
All MPAs Combined	19.5	23.8

The above tables show incidence value for each MPA monitored by MPA Watch in the central coast. Incidence is calculated as number of activities recorded divided by total survey-miles.

#### Notes on Calculating Incidence

The baseline rate for the reporting period was calculated by summing the total use count for each category during the same period from each previous year and dividing this value by the transect miles surveyed at each site. The miles surveyed were calculated by first identifying the length of each transect for all the MPA's in question and multiplying the length of the transect by the number of surveys that had been taken along that transect during the same time period. For MPA's with multiple transects, the total distance traveled for each transect within the MPA were summed together to get the total miles surveyed within that MPA.



### **Breakdown by MPA**

# Lovers Point State Marine Reserve

Between the months of January and December 2019, the Central Coast MPA Watch data shows a rate of 26.65 total use per count per total miles surveyed in the Lovers Point State Marine Reserve (SMR). This is a 5.95% decrease compared to the rate calculated from the data collected by MPA Watch volunteers January-December in previous years. People observed in the MPA were primarily taking part in non-consumptive activities both on and offshore. This accounted for 99.4% of activities logged in MPA Watch surveys. The remaining 0.6% of human use was comprised of consumptive activities on and offshore.

### Asilomar State Marine Reserve

Between the months of January and December 2019, the Central Coast MPA Watch data shows a rate of 111.70 total use count per total miles surveyed in the Asilomar SMR. This is a 20.8% increase compared to the rate calculated from data collected by MPA Watch volunteers between January- and December in previous years. People in the MPA were primarily taking part in both on and offshore, non-consumptive activities. These activities accounted for 99.23% of observations logged in MPA Watch surveys. The remaining 0.77% was consumptive activity, on and offshore.

# Point Lobos State Marine Reserve

Between the months of January and December 2019, the Central Coast MPA Watch data shows a rate of 5.72 total use count per total miles surveyed in Point Lobos SMR. This is a 37.3% decrease in human use within the MPA compared to the rate calculated from by MPA Watch volunteers between the months of January and December in previous years. People in the MPA were primarily involved in non-consumptive, onshore activities, followed by non-consumptive activities offshore. Together, this accounted for 98.8% of the observed activities logged in MPA Watch surveys. The remaining 1.2% was onshore, consumptive activities.

# **Cambria State Marine Conservation Area**

People observed in the MPA were primarily taking part in non-consumptive activities both on and offshore. This accounted for 87% of the activities logged in MPA Watch surveys. The remaining 13% of human use was comprised of on shore consumptive activities.



### **Potential Violations**

Though it is reported that the rate of on shore consumptive activities decreased by 1% this year in comparison to the baseline data, volunteers still observed a high rate of collection of biota in both Asilomar SMR and Lovers Point SMR, and illegal fishing in Asilomar SMR despite the regulations that state that all take is prohibited in a State Marine Reserve. This in turn suggest that the rates may be higher than reflected in the data. The reported incidences may have been lower this year due to decreased volunteer activity in comparison to other years.

#### **Next Steps**

The Central Coast MPA Watch program was previously run by the Otter Project and is now organized by WILDCOST. Management of the MPA Watch Program is intended to transition to California State Parks in the near future. Currently WILDCOAST is working toward maintaining current volunteers and increase outreach for MPA Watch to increase the number of volunteers. With more volunteers we will be able to publish more data from more locations, especially where current volunteers have been less active in the past year.

MPA Watch intends to collaborate with the California Department of Fish and Wildlife (CDFW) to distribute MPA Watch reports to regional managers in order to improve the management and enforcement of MPAs. MPA Watch is also looking to expand its network of partner organizations to enhance the scale and scope of MPA monitoring across California. MPA Watch will be making our human use data available on our website to make it accessible to partners, resource agencies, municipalities, and other interested parties. One of the hopes of MPA Watch is that volunteers and community members help spread knowledge and awareness of MPAs to the communities that surround them, inspiring marine stewardship in our populations.

# **Additional Information**

For additional information on MPA Watch, including survey sites, participating organizations, protocols and datasheets, media kit, and how to get involved, please visit <u>mpawatch.org</u>. Connect with MPA Watch on social media @MPAWatchOrg.

For additional information regarding MPAs and regulations specific to the various classifications of MPAs please visit <u>wildlife.ca.gov/MPAs</u>. If you see an activity that violates MPA regulations, please call CalTip to report the violation at (888)-334-2258.

For more information about the work WILDCOAST does to conserve California's MPAs and other conservation projects please visit <u>wildcoast.org</u>.







# Marine Protected Area (MPA) Watch Regional Report

Monterey County January 1, 2019-December 31, 2019

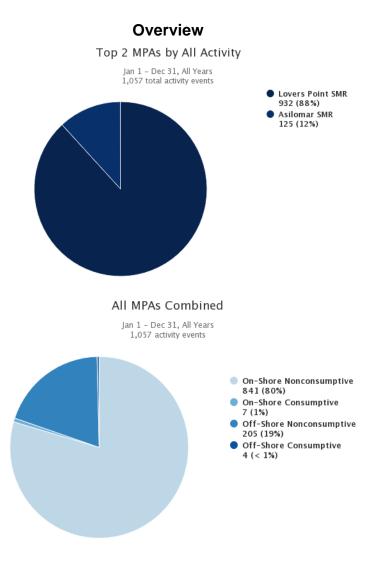


MPA Watch is a statewide community science program that collects data about human usage, both consumptive and non-consumptive, in our state's Marine Protected Areas (MPAs). Local MPAs are monitored by volunteers, who are first trained in collecting unbiased data about conditions at the MPAs, from temperature and weather to human activities such as kayaking, surfing, tidepooling and more. In turn, this collected data informs the management, enforcement, and science of California's MPAs. Monterey County's Marine Protected Area (MPA) Watch Program is overseen by the Pacific Grove Museum of Natural History, through which volunteers have monitored two sites in 2019.

#### **Executive Summary**

- In 2019, the vast majority of recorded activities in our MPA's have been nonconsumptive with less than 2% of activities being consumptive. Of those nonconsumptive activities, 80% (841) were on-shore and 19% (205) were offshore.
- At Lovers Point SMR and Asilomar SMR, less than 5% of reported activities have been consumptive over the past year. At Lovers Point SMR, our volunteers have reported 2 incidents of on-shore consumptive activity and 4 incidents of off-shore consumptive activity. On the other hand, Asilomar SMR has had 5 reported onshore consumptive activities and no reported off-shore consumptive activities.

#### Human Use of MPAs January - December 2019



#### Activity Classifications

**On-Shore -** Activities that take place on a sandy or rocky beach. Excludes bluffs, trails, sea walls, parking lots, or other man-made structures. Includes recreation, tidepooling, shore-based fishing, etc. **Off-Shore -** Activities that take place offshore, typically in knee-deep water or deeper. Includes surfing SCUBA diving, kayaking, boat fishing, etc.

**Consumptive -** An activity in which a natural resource (i.e. fish, kelp, shells) is being collected. **Non-Consumptive -** An activity in which a natural resource is not collected.

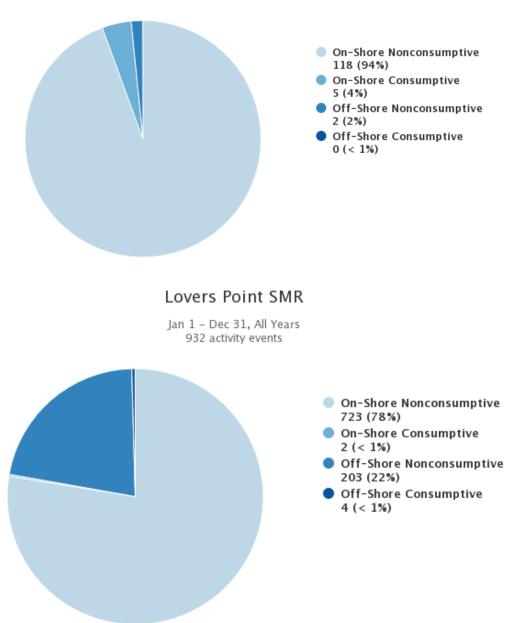




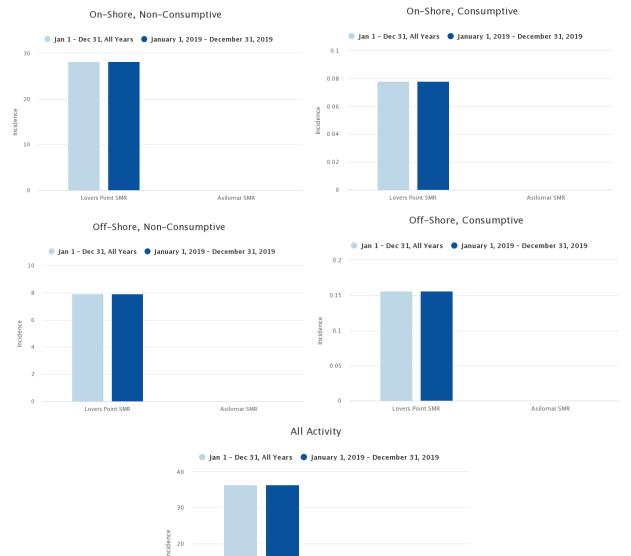
# Activity by MPA

#### Asilomar SMR

Jan 1 – Dec 31, All Years 125 activity events







The above charts show incidence values for each MPA monitored by MPA Watch in Monterey County. *Incidence is calculated as number of activities recorded divided by total survey-miles.* 

Asilomar SMR

Lovers Point SMR

10



The tables below show incidence values for each MPA monitored by CA State Parks MPA Watch. Incidence is calculated as number of activities recorded divided by total survey-miles.

			On-S	hore	
		Non-Con	sumptive	Consur	nptive
MPA	•	Jan 1 Dec 31 All Years	Jan 1, 2019 through \$ Dec 31, 2019	Jan 1 Dec 31 All Years	Jan 1, 2019 through \$ Dec 31, 2019
Lovers Point SMR		28.2	28.2	0.1	0.1
Asilomar SMR		inf	inf	inf	inf
All MPAs Combined		32.9	32.9	0.3	0.3

			Off-9	hore	
		Non-Co	nsumptive	Consu	mptive
MPA	•	Jan 1 Dec 31 All Years	Jan 1, 2019 through \$ Dec 31, 2019	Jan 1 Dec 31 All Years	Jan 1, 2019 through \$ Dec 31, 2019
Lovers Point SMR		7.9	7.9	0.2	0.2
Asilomar SMR		in	f inf	nan	nan
All MPAs Combined		8.0	) 8.0	0.2	0.2

	Total
	Combined
MPA	Jan 1 Jan 1, 2019 ▲ Dec 31 ♦ through ♦ All Years Dec 31, 2019
Lovers Point SMR	36.4 36.
Asilomar SMR	inf ir
All MPAs Combined	41.3 41.

#### Notes on Calculating Incidence

The baseline rate for the reporting period was calculated by summing the total use count for each category during the same period from each previous year and dividing this value by the transect miles surveyed at each site. The miles surveyed were calculated by first identifying the length of each transect for all the MPA's in question and multiplying the length of the transect by the number of surveys that had been taken along that transect during the same time period. For MPA's with multiple transects, the total distance traveled for each transect within the MPA were summed together to get the total miles surveyed within that MPA.



### **Breakdown by MPA**

# Lovers Point SMR

Between the months of January and December 2019, Lovers Point SMR data shows 932 total activity events recorded by MPA Watch volunteers. These activities make up 88% of all MPA Watch data collected by our volunteers. Out of these activities, 926 (99.4%) were non-consumptive and 6 (<1%) were consumptive. At Lovers Point SMR, volunteers reported potential violations mainly related to shore-based fishing and shore-based hand collecting of biota. Common non-consumptive activities included shore-based recreation (sandy and rocky) and offshore recreation such as swimming, surfing and SCUBA/snorkeling.

### Asilomar SMR

Between the months of January and December 2019, Asilomar SMR data shows 125 total activity events recorded by MPA Watch volunteers. These activities make up 12% of all MPA Watch data collected by our volunteers. Out of these reported activities, 120 (96%) were non-consumptive and 5 (4%) were consumptive. At Asilomar SMR, volunteers reported potential violations mainly related to shore-based hand collection of biota and shore-based hook and line fishing (rocky). Common non-consumptive activities included tidepooling, domestic animals off and on leash and shore-based recreation (rocky and sandy) and sailing.

#### **Potential Violations**

Both Lovers Point SMR and Asilomar SMR have reported very low numbers of consumptive activity between the months of January and December of 2019. Out of 1,057 reported activities, only 11 were reported as consumptive, making up less than 2% of all activities. Consumptive behavior included shore-based hook and line fishing (rocky), shore-based hand collecting of biota (sandy and rocky). There has also been wildlife feeding reported at Lovers Point SMR. There is no take allowed in either Lovers Point or Asilomar SMRs.

#### **Next Steps**

The Pacific Grove Museum of Natural History is working to increase the number of volunteers we have collecting human use data within our local MPAs by discussing the program in our Volunteer Training Class and encouraging incoming and current volunteers to take part in the program.



### **Additional Information**

For additional information on MPA Watch, including survey sites, participating organizations, protocols and datasheets, media kit, and how to get involved, please visit <u>mpawatch.org</u>. Connect with MPA Watch on social media @MPAWatchOrg.

For additional information regarding MPAs and regulations specific to the various classifications of MPAs please visit <u>wildlife.ca.gov/MPAs</u>. If you see an activity that violates MPA regulations, please call CalTip to report the violation at (888)-334-2258.

For additional information regarding Pacific Grove Museum of Natural History's MPA Watch Program, please contact <u>maddenfulk@pgmuseum.org</u>.

