

**Marine Protected Area (MPA) Watch
Regional Report from Beach Watch**

Mendocino, Sonoma, Marin, San Francisco, and San Mateo Counties
January 1, 2021 – June 30, 2021



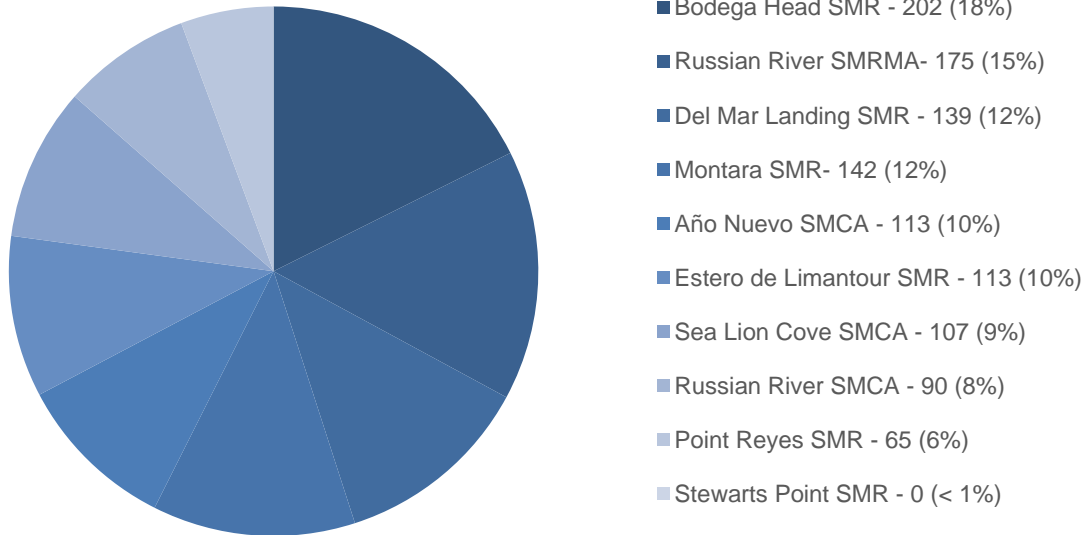
MPA Watch is a statewide collaborative effort to collect critical human use data to enhance the management and conservation of marine protected areas (MPAs). MPA Watch data informs the management, enforcement, and science of California's MPAs and allows us insight on how human uses are changing as a 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. MPA Watch trains volunteers to observe and collect unbiased data on coastal and marine resource use. The North-central Coast Marine Protected Area (MPA) Watch Program, organized by Greater Farallones Association's Beach Watch program, engages 150 community scientists in 10 MPAs, spanning 5 counties.



Human Use of MPAs January - June 2021

MPAs by All Activity

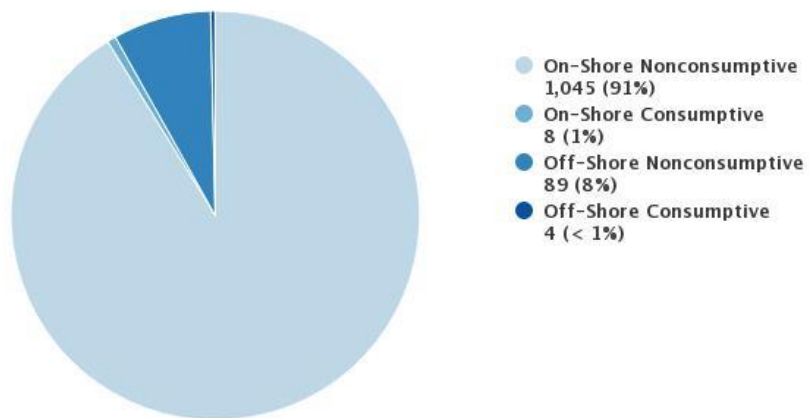
January 1, 2021 - June 30, 2021
1,146 Events



Overview

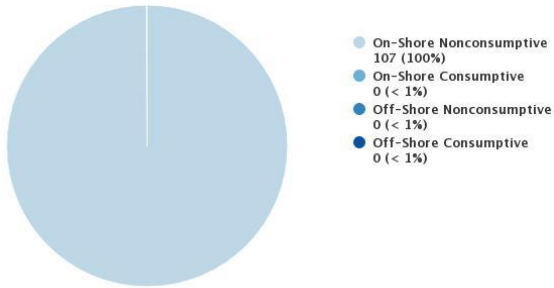
All MPAs Combined

January 1, 2021 - June 30, 2021
1,146 activity events

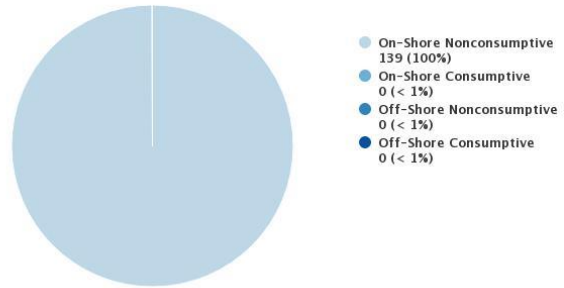


Activity by MPA

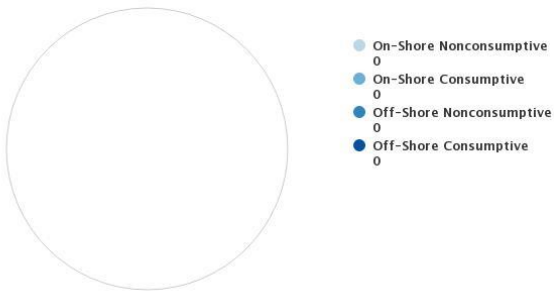
Sea Lion Cove SMCA
January 1, 2021 – June 30, 2021
107 activity events



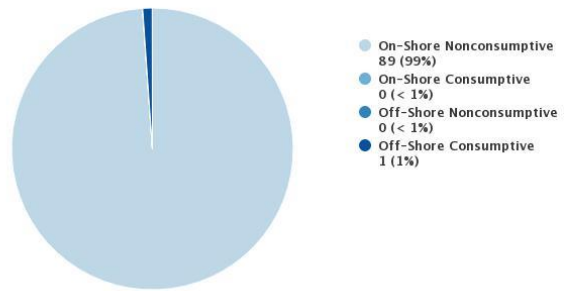
Del Mar Landing SMR
January 1, 2021 – June 30, 2021
139 activity events



Stewarts Point SMR
January 1, 2021 – June 30, 2021
0 activity events



Russian River SMCA
January 1, 2021 – June 30, 2021
90 activity events



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.

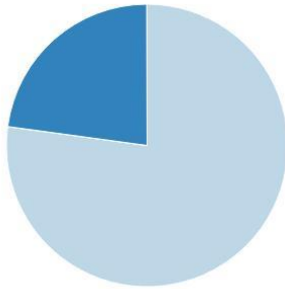
Off-Shore - Activities that take place offshore, typically in knee-deep water or deeper. Includes surfing, SCUBA diving, kayaking, boat fishing, etc.

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.

Russian River SMRMA

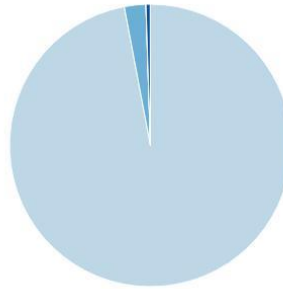
January 1, 2021 – June 30, 2021
175 activity events



- On-Shore Nonconsumptive 135 (77%)
- On-Shore Consumptive 0 (< 1%)
- Off-Shore Nonconsumptive 40 (23%)
- Off-Shore Consumptive 0 (< 1%)

Bodega Head SMR

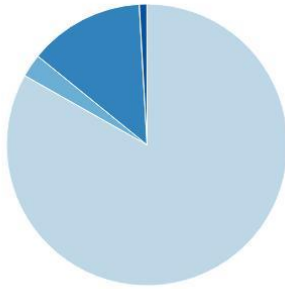
January 1, 2021 – June 30, 2021
202 activity events



- On-Shore Nonconsumptive 196 (97%)
- On-Shore Consumptive 5 (2%)
- Off-Shore Nonconsumptive 0 (< 1%)
- Off-Shore Consumptive 1 (< 1%)

Estero de Limantour SMR

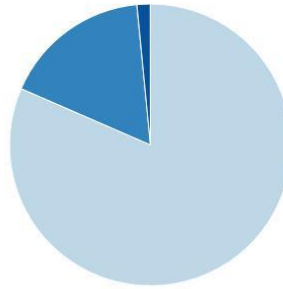
January 1, 2021 – June 30, 2021
113 activity events



- On-Shore Nonconsumptive 94 (83%)
- On-Shore Consumptive 3 (3%)
- Off-Shore Nonconsumptive 15 (13%)
- Off-Shore Consumptive 1 (1%)

Point Reyes SMR

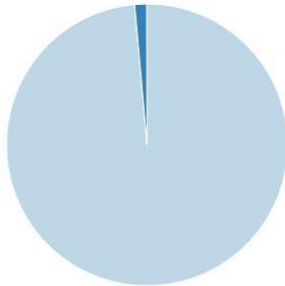
January 1, 2021 – June 30, 2021
65 activity events



- On-Shore Nonconsumptive 53 (82%)
- On-Shore Consumptive 0 (< 1%)
- Off-Shore Nonconsumptive 11 (17%)
- Off-Shore Consumptive 1 (2%)

Montara SMR

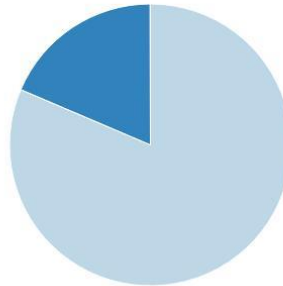
January 1, 2021 – June 30, 2021
142 activity events



- On-Shore Nonconsumptive 140 (99%)
- On-Shore Consumptive 0 (< 1%)
- Off-Shore Nonconsumptive 2 (1%)
- Off-Shore Consumptive 0 (< 1%)

Año Nuevo SMCA

January 1, 2021 – June 30, 2021
113 activity events



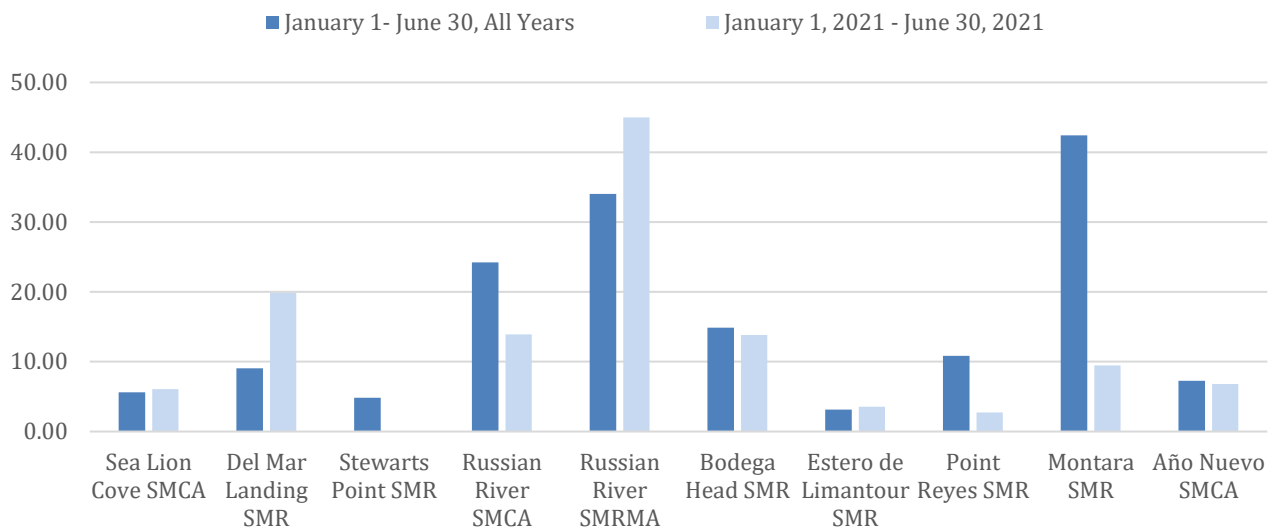
- On-Shore Nonconsumptive 92 (81%)
- On-Shore Consumptive 0 (< 1%)
- Off-Shore Nonconsumptive 21 (19%)
- Off-Shore Consumptive 0 (< 1%)



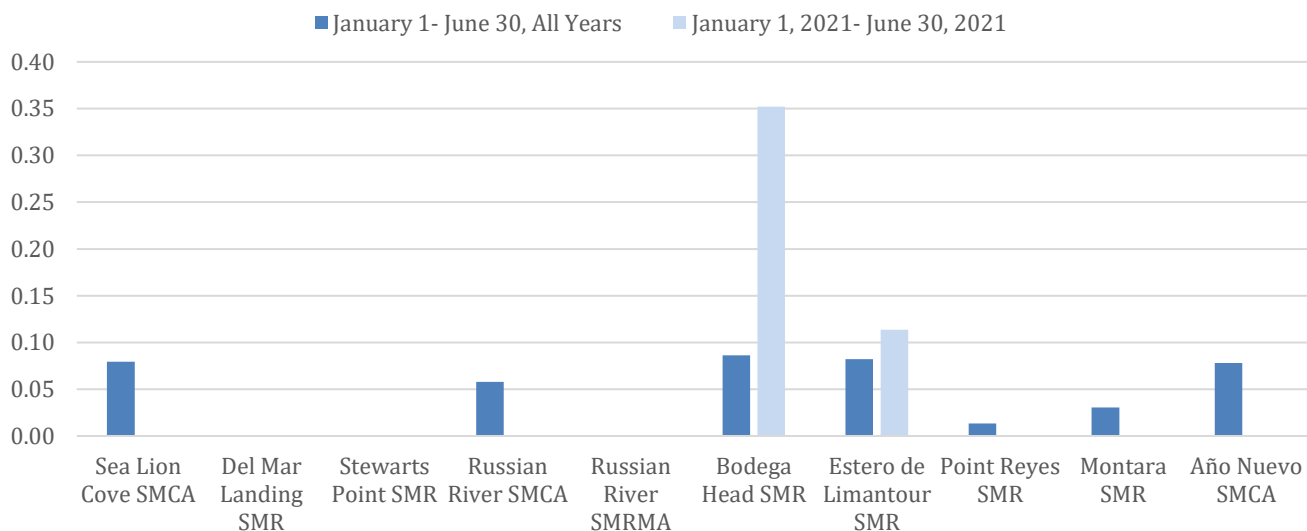
Activity Incidence by MPA

The charts below show incidence values for each MPA monitored by Greater Farallones Association Beach Watch program. **Incidence is calculated as number of activities recorded divided by total survey-miles.**

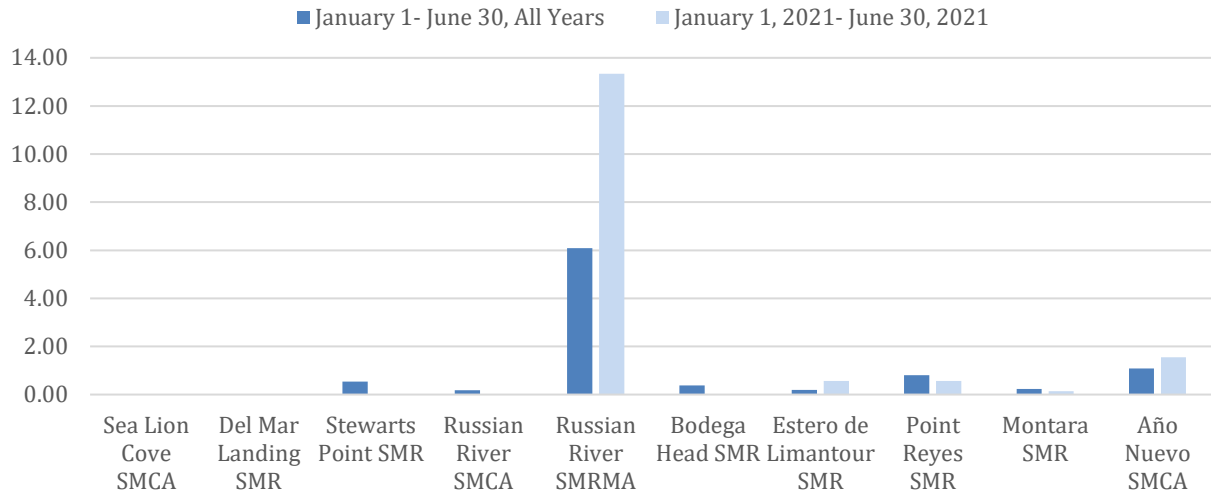
On Shore, Non-Consumptive



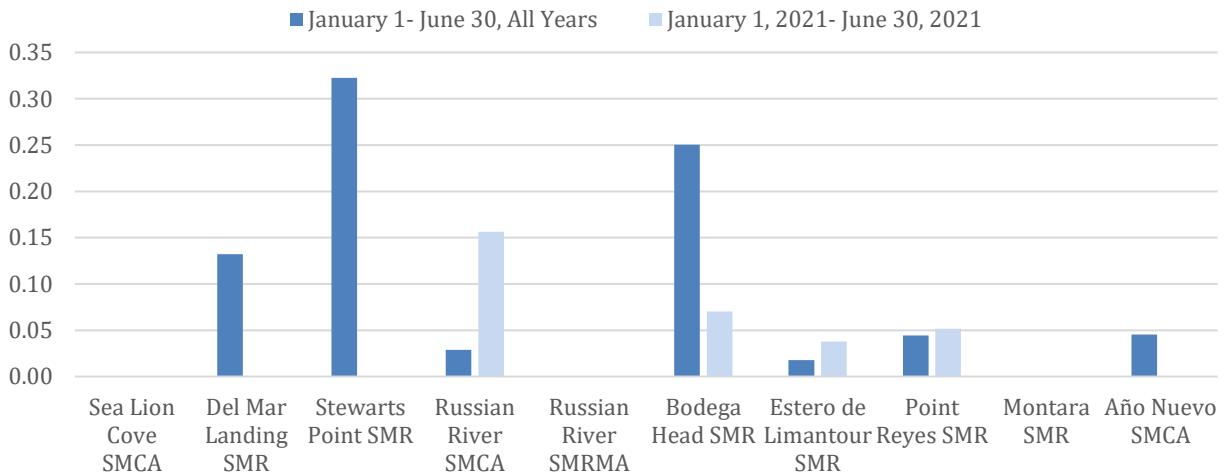
On Shore, Consumptive



Offshore, Non-Consumptive



Offshore, Consumptive



Activity Incidence by MPA

MPA	On-Shore			
	Non-Consumptive		Consumptive	
	Jan 1	2021	Jan 1	2021
	Jun 30	Jun 30,	Jun 30	Jun 30,
	All Years	2021	All Years	2021
Sea Lion Cove SMCA	5.60	6.08	0.08	0.00
Del Mar Landing SMR	9.04	19.86	0.00	0.00
Stewarts Point SMR	4.84		0.00	
Russian River SMCA	24.24	13.91	0.06	0.00
Russian River SMRMA	34.01	45.00	0.00	0.00
Bodega Head SMR	14.89	13.80	0.09	0.35
Estero de Limantour SMR	3.13	3.56	0.08	0.11
Point Reyes SMR	10.83	2.73	0.01	0.00
Montara SMR	42.43	9.46	0.03	0.00
Año Nuevo SMCA	7.26	6.81	0.08	0.00
All MPAs Combined	15.00	8.54	0.05	0.07

MPA	Off-Shore			
	Non-Consumptive		Consumptive	
	Jan 1	2021	Jan 1	2021
	Jun 30	Jun	Jun 30	Jun 30,
	All Years	30,	All Years	2021
Sea Lion Cove SMCA	0.01	0.00	0.00	0.00
Del Mar Landing SMR	0.00	0.00	0.13	0.00
Stewarts Point SMR	0.54		0.32	
Russian River SMCA	0.17	0.00	0.03	0.16
Russian River SMRMA	6.09	13.33	0.00	0.00
Bodega Head SMR	0.38	0.00	0.25	0.07
Estero de Limantour SMR	0.20	0.57	0.02	0.04
Point Reyes SMR	0.81	0.57	0.04	0.05
Montara SMR	0.24	0.14	0.00	0.00
Año Nuevo SMCA	1.08	1.56	0.05	0.00
All MPAs Combined	0.56	0.73	0.06	0.03

MPA	Total	
	Combined	
	Jan 1	Jan 1, 2021
	Jun 30	Jun 30, 2021
	All Years	Jun 30, 2021
Sea Lion Cove SMCA	5.69	6.08
Del Mar Landing SMR	9.17	19.86
Stewarts Point SMR	5.70	
Russian River SMCA	24.50	14.06
Russian River SMRMA	40.10	58.33
Bodega Head SMR	15.60	14.23
Estero de Limantour SMR	3.43	4.28
Point Reyes SMR	11.70	3.35
Montara SMR	42.70	9.59
Año Nuevo SMCA	8.47	8.37
All MPAs Combined	15.68	9.37



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

Sea Lion Cove State Marine Conservation Area

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 6.08 total uses per mile surveyed in this MPA. This is an increase compared to the baseline data rate (2014-2020). People observed in the MPA were primarily taking part in non-consumptive activities both on and off-shore, such as beach and ocean recreation. This accounted for almost 100% of the activities logged in the MPA Watch surveys. Less than 1% of human use was comprised of onshore consumptive activities, a decrease of 100%.

Del Mar Landing State Marine Reserve

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 19.86 total uses per mile surveyed in this MPA. This is a large increase compared to the baseline data rate (2014-2020). People observed in the MPA were primarily taking part in non-consumptive activities onshore, such as beach recreation. This accounted for almost 100% of the activities logged in the MPA Watch surveys. Less than 1% of human use was comprised of onshore consumptive activities.

Stewarts Point State Marine Reserve

Between the months of January and June 2021 data was collected at some sites, however it has not been entered.

Russian River State Marine Conservation Area

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 14.06 total uses per mile surveyed in this MPA. This is a decrease compared to the baseline data rate (2014-2020). 96% of people observed in the MPA were taking part in non-consumptive activities on-shore, such as beach recreation. Less than 4% human use was comprised of both onshore (3%) and off-shore (1%) consumptive activities.

Russian River State Marine Recreational Management Area

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 58.33 total uses per mile surveyed in this MPA. This is a 45% increase compared to the baseline data rate (2014-2020). 100% of people observed in the MPA were taking part in non-consumptive activities both on (77%) and off-shore (23%), such as beach and ocean recreation.

Bodega Head State Marine Reserve

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 14.23 total uses per mile surveyed in this MPA. This is a decrease compared to the baseline data rate (2014-2020). People observed in the MPA were primarily taking part in non-consumptive activities both on and off-shore, such as beach and ocean recreation. This accounted for almost 97% of the activities logged in the MPA Watch surveys. Less than 3% of human use was comprised of onshore and off-shore consumptive activities.

Estero de Limantour State Marine Reserve

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 4.28 total uses per mile surveyed in this MPA. This is a 25% increase compared to the baseline data rate (2014-2020). People observed in the MPA were primarily taking part in non-consumptive activities both on and off-shore, such as beach and ocean recreation. This accounted for almost 96% of the activities logged in the MPA Watch surveys. Less than 4% of human use was comprised of consumptive activities.

Point Reyes State Marine Reserve

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 3.35 total uses per mile surveyed in this MPA. This is a decrease compared to the baseline data rate (2014-2020), which may be due to several Federal Park Closures in 2020. People observed in the MPA were primarily taking part in non-consumptive activities both on and off-shore, such as beach and ocean recreation. This accounted for almost 98% of the activities logged in the MPA Watch surveys. Less than 2% of human use was comprised of consumptive activities.

Montara State Marine Reserve

Between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 9.59 total uses per mile surveyed in this MPA. This is a 78% decrease compared to the baseline data rate (2014-2020). People observed in the MPA were primarily taking part in non-consumptive activities both on and off-shore, such as beach and ocean recreation. This accounted for 100% of the activities logged in the MPA Watch surveys. There were no consumptive activities recorded.

Año Nuevo State Marine Conservation Area between the months of January and June 2021, GFA's MPA Watch data suggests a rate of 8.37 total uses per mile surveyed in this MPA. People observed in the MPA were primarily taking part in non-consumptive activities on shore, this accounted for almost 100% of the activities logged in the MPA Watch surveys. However we observed an increase in offshore non-consumptive activities.

Next Steps

Greater Farallones Association intends to expand the volunteer pool in the Sonoma and Mendocino region in 2021. Increasing our knowledge in this remote region struggling with severe Abalone declines. 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 mpawatch.org. Connect with MPA Watch on social media @MPAWatchOrg.

For additional information regarding MPAs and regulations specific to the various classifications of MPAs please visit wildlife.ca.gov/MPAs. 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 the Greater Farallones Association does to conserve California's Federal and California MPAs and other conservation projects please visit farallones.org.

