



Point Blue Conservation Science (formerly PRBO)
3820 Cypress Drive Suite 11
Petaluma, CA 94954
707.781.2555 pointblue.org

Conservation Science for a healthy planet.

February 17, 2016

Jeannine Cody
Permits, Conservation, and Education Division
National Marine Fisheries Service (NMFS)
Office of Protected Resources
1315 East-West Highway
Silver Spring, MD 20910-3226

Dear Jeannine,

Please find enclosed a summary report of pinniped takes from the Incidental Harassment Authorization (IHA) issued to Point Blue Conservation Science (formerly PRBO), Oikonos Ecosystem Knowledge, and Point Reyes National Seashore for the period of January 31, 2015 to January 30, 2016. This IHA supports central California seabird research and related operations on Southeast Farallon Island, Año Nuevo Island, and Point Reyes National Seashore.

Marine mammals species that were impacted by these activities include the California stocks of northern elephant seal (*Mirounga angustirostris*), harbor seal (*Phoca vitulina richardii*), Steller sea lion (*Eumetopias jubatus*), and California sea lion (*Zalophus californianus*). This IHA was modified on December 17th, 2015 to reflect an increase in California Sea Lion takes by 32,018. As such, all sites reported less than requested take, and no stampede takes were reported at any site. Table 1 summarizes total take numbers for Southeast Farallon Island; Table 2 and 3 show similar results for Año Nuevo Island and Point Reyes National Seashore.

Appendix 1 lists all take for Southeast Farallon Island, by date, location, species, type and number of takes, and activity during which the take was recorded. As of this year, we are no longer including takes associated with pinniped research under this permit, they are reported separately as part of our research permit. Appendix 2 and 3 are similar summaries for Año Nuevo Island and Point Reyes National Seashore.

Thank you for reviewing this report, we look forward to hearing from you.

Sincerely,

A handwritten signature in black ink that reads "Russell Bradley".

Russell Bradley
Farallon Program Leader, California Current Division
Point Blue Conservation Science
rbradley@pointblue.org

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Table 1. Summary of total IHA take numbers by species from Point Blue on Southeast Farallon Island 1/31/2015 to 1/30/2016.

Species	Total Takes
Northern Elephant Seal (ES)	30
Harbor Seal (HS)	269
Steller Sea Lion (SSL)	20
California Sea Lion (CSL)	35,684

Table 2. Summary of total IHA take numbers by species from Oikonos on Año Nuevo Island 1/31/2015 to 1/30/2016.

Species	Total Takes
Northern Elephant Seal (ES)	108
Harbor Seal (HS)	14
Steller Sea Lion (SSL)	11
California Sea Lion (CSL)	723

Table 3. Summary of total IHA take numbers by species from National Parks Service at Point Reyes National Seashore 1/31/2015 to 1/30/2016.

Species	Total Takes
Northern Elephant Seal (ES)	37
Harbor Seal (HS)	9
Steller Sea Lion (SSL)	0
California Sea Lion (CSL)	10

Appendix 1. All Point Blue IHA take by date, species, location, type of take, and activity from Southeast Farallon Island 1/31/2015 to 1/30/2016.

Date	Species	Location	# > 1m	# Flushed	Activity
1/31/2015	CSL	Pinniped Colony	58		Daily Operations
1/31/2015	CSL	North Landing	45		Field Station Resupply
2/1/2015	CSL	Pinniped Colony	58		Daily Operations



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2/2/2015	CSL	Pinniped Colony	15		Daily Operations
2/2/2015	CSL	North Landing	36		Field Station Resupply
2/2/2015	CSL	Sea Lion Cove		11	Daily Operations
2/3/2015	CSL	Pinniped Colony	28		Daily Operations
2/4/2015	CSL	Pinniped Colony	34		Daily Operations
2/4/2015	CSL	Sea Lion Cove		40	Daily Operations
2/5/2015	CSL	Pinniped Colony	31		Daily Operations
2/5/2015	CSL	Sea Lion Cove		12	Daily Operations
2/5/2015	CSL	North Landing		4	Daily Operations
2/5/2015	CSL	Pinniped Colony		20	Daily Operations
2/5/2015	CSL	Pinniped Colony	25		Daily Operations
2/7/2015	CSL	Pinniped Colony	110		Daily Operations
2/7/2015	CSL	Sea Lion Cove		12	Daily Operations
2/7/2015	CSL	Pinniped Colony		1	Daily Operations
2/8/2015	CSL	Pinniped Colony		2	Daily Operations
2/8/2015	CSL	Sea Lion Cove		11	Daily Operations
2/8/2015	CSL	North Landing		2	Daily Operations
2/9/2015	CSL	Pinniped Colony	55	90	Daily Operations
2/10/2015	CSL	Pinniped Colony	80	100	Daily Operations
2/10/2015	CSL	East Landing	1		Daily Operations
2/11/2015	CSL	Pinniped Colony	5	17	Daily Operations
2/12/2015	CSL	Pinniped Colony	60	50	Daily Operations



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2/12/2015	CSL	Pinniped Colony		40	Daily Operations
2/13/2015	CSL	Pinniped Colony	21	26	Daily Operations
2/14/2015	CSL	Pinniped Colony	74	37	Daily Operations
2/15/2015	CSL	Pinniped Colony	26		Daily Operations
2/15/2015	CSL	East Landing	10		Daily Operations
2/16/2015	CSL	Pinniped Colony	31		Daily Operations
2/16/2015	CSL	Pinniped Colony		9	Daily Operations
2/16/2015	CSL	Sea Lion Cove		1	Daily Operations
2/17/2015	CSL	Pinniped Colony	28	15	Daily Operations
2/18/2015	CSL	Pinniped Colony	52	8	Daily Operations
2/18/2015	CSL	Pinniped Colony		40	Daily Operations
2/19/2015	CSL	Pinniped Colony	42	18	Daily Operations
2/19/2015	CSL	Sea Lion Cove		12	Daily Operations
2/20/2015	CSL	Pinniped Colony	66	32	Daily Operations
2/20/2015	CSL	North Landing	15		Daily Operations
2/20/2015	CSL	North Landing		1	Daily Operations
2/21/2015	CSL	Pinniped Colony	25	45	Daily Operations
2/21/2015	CSL	Sea Lion Cove			Daily Operations
2/22/2015	CSL	Pinniped Colony	4	80	Daily Operations
2/22/2015	CSL	Sea Lion Cove			Daily Operations
2/23/2015	CSL	Pinniped Colony	65	30	Daily Operations
2/24/2015	CSL	Pinniped Colony		40	Daily Operations



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2/24/2015	CSL	Pinniped Colony		30	Daily Operations
2/24/2015	CSL	North Landing		2	Daily Operations
2/25/2015	CSL	Pinniped Colony		50	Daily Operations
2/25/2015	CSL	Sea Lion Cove		4	Daily Operations
2/26/2015	CSL	North Landing			Daily Operations
2/26/2015	CSL	East Landing		30	Daily Operations
2/26/2015	CSL	Pinniped Colony		30	Daily Operations
2/26/2015	CSL	Pinniped Colony	5	65	Daily Operations
2/27/2015	CSL	Pinniped Colony	2	51	Daily Operations
2/27/2015	CSL	East Landing			Daily Operations
2/27/2015	CSL	Sea Lion Cove		9	Daily Operations
2/28/2015	CSL	Pinniped Colony	4	55	Daily Operations
2/28/2015	CSL	Sea Lion Cove		2	Daily Operations
3/1/2015	CSL	Pinniped Colony	9	30	Daily Operations
3/1/2015	CSL	Sea Lion Cove	11		Daily Operations
3/2/2015	CSL	Sea Lion Cove		6	Daily Operations
3/2/2015	CSL	Pinniped Colony		20	Daily Operations
3/2/2015	CSL	Pinniped Colony	125	31	Daily Operations
3/3/2015	CSL	Pinniped Colony		12	Daily Operations
3/3/2015	CSL	Sea Lion Cove		12	Daily Operations
3/4/2015	CSL	Sea Lion Cove		11	Daily Operations
3/4/2015	CSL	Pinniped Colony		50	Daily Operations



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3/5/2015	CSL	Pinniped Colony	2		Daily Operations
3/5/2015	CSL	Pinniped Colony	2	2	Daily Operations
3/6/2015	CSL	Pinniped Colony	7	10	Daily Operations
3/7/2015	CSL	Sea Lion Cove		8	Daily Operations
3/8/2015	CSL	Pinniped Colony	60	50	Daily Operations
3/9/2015	CSL	Sea Lion Cove			Daily Operations
3/9/2015	CSL	Pinniped Colony			Daily Operations
3/10/2015	CSL	Pinniped Colony	10	20	Daily Operations
3/10/2015	CSL	East Landing	20		Field Station Resupply
3/11/2015	CSL	Sea Lion Cove		5	Field Station Resupply
3/11/2015	CSL	Pinniped Colony	1	10	Daily Operations
3/12/2015	CSL	Pinniped Colony	30	40	Daily Operations
3/12/2015	CSL	Pinniped Colony	1		Daily Operations
3/12/2015	CSL	North Landing			Daily Operations
3/12/2015	CSL	East Landing			Daily Operations
3/13/2015	CSL	East Landing	1		Daily Operations
3/14/2015	CSL	East Landing	2		Field Station Resupply
3/15/2015	CSL	East Landing	97		Daily Operations
3/15/2015	CSL	North Landing		15	Daily Operations
3/16/2015	CSL	Pinniped Colony		40	Daily Operations
3/16/2015	CSL	East Landing	97		Daily Operations
3/16/2015	CSL	East Landing	30		Daily Operations



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3/16/2015	CSL	Pinniped Colony	90		Daily Operations
3/17/2015	CSL	East Landing	29		Daily Operations
3/17/2015	CSL	East Landing	69		Field Station Resupply
3/18/2015	CSL	East Landing	25	50	Daily Operations
3/18/2015	CSL	East Landing	10	123	Daily Operations
3/18/2015	CSL	Pinniped Colony	45		Murre Research
3/19/2015	CSL	East Landing	9		Daily Operations
3/19/2015	CSL	East Landing	4		Daily Operations
3/20/2015	CSL	East Landing	95		Daily Operations
3/20/2015	CSL	Pinniped Colony	65		Murre Research
3/20/2015	CSL	Pinniped Colony	5		Field Station Resupply
3/21/2015	CSL	Pinniped Colony	43		Murre Research
3/22/2015	CSL	Pinniped Colony	33		Field Station Resupply
3/22/2015	CSL	Pinniped Colony		65	Field Station Resupply
3/22/2015	CSL	Pinniped Colony	4		Daily Operations
3/22/2015	CSL	Pinniped Colony		6	Daily Operations
3/22/2015	CSL	Pinniped Colony			Daily Operations
3/23/2015	CSL	Pinniped Colony	35		Daily Operations
3/23/2015	CSL	Pinniped Colony		50	Daily Operations
3/23/2015	CSL	Pinniped Colony	20		Daily Operations
3/23/2015	CSL	Pinniped Colony		40	Murre Research
3/23/2015	CSL	Pinniped Colony	38		Murre Research



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3/24/2015	CSL	Pinniped Colony	21		Daily Operations
3/24/2015	CSL	Pinniped Colony	28		Daily Operations
3/24/2015	CSL	Pinniped Colony	5		Daily Operations
3/24/2015	CSL	Pinniped Colony		21	Murre Research
3/24/2015	CSL	Pinniped Colony	33		Murre Research
3/25/2015	CSL	Pinniped Colony	13	10	Daily Operations
3/25/2015	CSL	Pinniped Colony	34		Murre Research
3/25/2015	CSL	Pinniped Colony		18	Murre Research
3/26/2015	CSL	Pinniped Colony	3		Daily Operations
3/26/2015	CSL	Pinniped Colony	20		Daily Operations
3/26/2015	CSL	Pinniped Colony		1	Daily Operations
3/26/2015	CSL	Pinniped Colony	10		Murre Research
3/27/2015	CSL	Pinniped Colony	1		Daily Operations
3/27/2015	CSL	Pinniped Colony	10		Murre Research
3/27/2015	CSL	Pinniped Colony	9	21	Daily Operations
3/27/2015	CSL	Pinniped Colony	10		Daily Operations
3/29/2015	CSL	Pinniped Colony	7		Daily Operations
3/29/2015	CSL	Pinniped Colony	15		Murre Research
3/31/2015	CSL	Pinniped Colony	6		Daily Operations
3/31/2015	CSL	Pinniped Colony	17		Daily Operations
4/1/2015	CSL	Pinniped Colony		1	Daily Operations
4/1/2015	CSL	Pinniped Colony		2	Daily Operations



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4/1/2015	CSL	Pinniped Colony	3		Murre Research
4/2/2015	CSL	Pinniped Colony	4		Murre Research
4/2/2015	CSL	Pinniped Colony	2		Murre Research
4/3/2015	CSL	Pinniped Colony		60	Daily Operations
4/4/2015	CSL	Pinniped Colony	1		Daily Operations
4/5/2015	CSL	Pinniped Colony	1		Daily Operations
4/5/2015	CSL	Pinniped Colony	1		Daily Operations
4/6/2015	CSL	Pinniped Colony	1		Murre Research
4/6/2015	CSL	East Landing	1		Daily Operations
4/7/2015	CSL	Sea Lion Cove		45	Daily Operations
4/8/2015	CSL	East Landing	4		Daily Operations
4/9/2015	CSL	East Landing	4		Daily Operations
4/9/2015	CSL	East Landing	1		Daily Operations
4/10/2015	CSL	East Landing	8		Daily Operations
4/10/2015	CSL	North Landing	30		Field Station Resupply
4/10/2015	CSL	East Landing	1		Daily Operations
4/11/2015	CSL	Pinniped Colony		1	Daily Operations
4/11/2015	CSL	North Landing	4		Daily Operations
4/19/2015	CSL	East Landing	30		Daily Operations
4/19/2015	CSL	East Landing	1	1	Daily Operations
4/21/2015	CSL	East Landing	7	14	Daily Operations
4/21/2015	CSL	East Landing	7	2	Daily Operations



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4/21/2015	CSL	East Landing	3		Daily Operations
4/22/2015	CSL	Pinniped Colony	35		Daily Operations
4/22/2015	CSL	East Landing	1		Daily Operations
4/22/2015	CSL	Pinniped Colony	1		Murre Research
4/22/2015	CSL	East Landing	4		Daily Operations
4/23/2015	CSL	Pinniped Colony	42		Daily Operations
4/24/2015	CSL	Pinniped Colony	5		Daily Operations
4/24/2015	CSL	East Landing	1		Daily Operations
4/25/2015	CSL	East Landing	1		Daily Operations
4/27/2015	CSL	East Landing	15		Daily Operations
4/27/2015	CSL	North Landing	2		Daily Operations
4/27/2015	CSL	East Landing	1		Daily Operations
5/2/2015	CSL	East Landing	37		Daily Operations
5/2/2015	CSL	North Landing		11	Daily Operations
5/2/2015	CSL	Sea Lion Cove		5	Daily Operations
5/3/2015	CSL	East Landing	42		Daily Operations
5/4/2015	CSL	East Landing	20		Daily Operations
5/4/2015	CSL	East Landing	1		Daily Operations
5/4/2015	CSL	East Landing	1		Daily Operations
5/5/2015	CSL	East Landing	1		Daily Operations
5/5/2015	CSL	North Landing		50	Daily Operations
5/7/2015	CSL	East Landing	1		Daily Operations



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5/7/2015	CSL	East Landing		1	Daily Operations
5/8/2015	CSL	North Landing	4		Murre Research
5/10/2015	CSL	East Landing		1	Daily Operations
5/12/2015	CSL	East Landing	16		Daily Operations
5/15/2015	CSL	East Landing	7		Daily Operations
5/16/2015	CSL	Pinniped Colony	3		Daily Operations
5/17/2015	CSL	East Landing	21		Daily Operations
5/17/2015	CSL	North Landing	7		Daily Operations
5/18/2015	CSL	East Landing	27		Daily Operations
5/19/2015	CSL	East Landing	45		Daily Operations
5/19/2015	CSL	East Landing	23		Daily Operations
5/20/2015	CSL	East Landing	41		Daily Operations
5/21/2015	CSL	East Landing	12		Daily Operations
5/21/2015	CSL	Pinniped Colony	7		Daily Operations
5/21/2015	CSL	East Landing	32		Daily Operations
5/22/2015	CSL	East Landing	55		Daily Operations
5/22/2015	CSL	East Landing	30		Daily Operations
5/22/2015	CSL	Pinniped Colony		1	Daily Operations
5/22/2015	CSL	East Landing	41		Daily Operations
5/23/2015	CSL	East Landing	57		Field Station Resupply
5/23/2015	CSL	Pinniped Colony	14		Murre Research
5/24/2015	CSL	Pinniped Colony	99	60	Murre Research



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5/24/2015	CSL	East Landing	17		Daily Operations
5/24/2015	CSL	North Landing	6		Daily Operations
5/25/2015	CSL	North Landing		9	Murre Research
5/25/2015	CSL	East Landing	1		Daily Operations
5/25/2015	CSL	Pinniped Colony	25		Murre Research
5/26/2015	CSL	Pinniped Colony	12		Murre Research
5/26/2015	CSL	East Landing	7		Daily Operations
5/27/2015	CSL	East Landing	2		Daily Operations
5/27/2015	CSL	East Landing	12		Daily Operations
5/27/2015	CSL	East Landing	2		Daily Operations
5/27/2015	CSL	Pinniped Colony		12	Murre Research
5/28/2015	CSL	Pinniped Colony		1	Murre Research
5/30/2015	CSL	Pinniped Colony	4		Field Station Resupply
5/31/2015	CSL	Pinniped Colony	20	20	Murre Research
5/31/2015	CSL	East Landing	15	1	Daily Operations
5/31/2015	CSL	North Landing	40		Murre Research
6/1/2015	CSL	East Landing	3		Daily Operations
6/1/2015	CSL	East Landing	1		Daily Operations
6/1/2015	CSL	Pinniped Colony		40	Daily Operations
6/1/2015	CSL	North Landing		10	Murre Research
6/1/2015	CSL	Pinniped Colony		37	Daily Operations
6/1/2015	CSL	Pinniped Colony	10		Murre Research



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6/2/2015	CSL	North Landing		75	Daily Operations
6/2/2015	CSL	Pinniped Colony	1		Murre Research
6/2/2015	CSL	East Landing	3		Daily Operations
6/3/2015	CSL	North Landing		40	Daily Operations
6/3/2015	CSL	East Landing	2		Daily Operations
6/4/2015	CSL	North Landing		40	Daily Operations
6/5/2015	CSL	North Landing		50	Murre Research
6/5/2015	CSL	East Landing	5		Field Station Resupply
6/6/2015	CSL	North Landing		35	Daily Operations
6/6/2015	CSL	Pinniped Colony	12		Murre Research
6/6/2015	CSL	East Landing	5		Daily Operations
6/6/2015	CSL	East Landing		3	Daily Operations
6/7/2015	CSL	North Landing		50	Murre Research
6/7/2015	CSL	East Landing	15		Daily Operations
6/8/2015	CSL	East Landing	24		Daily Operations
6/8/2015	CSL	Pinniped Colony	40		Murre Research
6/9/2015	CSL	East Landing	24		Daily Operations
6/9/2015	CSL	East Landing	7	3	Daily Operations
6/10/2015	CSL	North Landing		60	Daily Operations
6/10/2015	CSL	East Landing	16		Daily Operations
6/10/2015	CSL	North Landing	110		Field Station Resupply
6/10/2015	CSL	North Landing		15	Daily Operations



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6/11/2015	CSL	Pinniped Colony	17		Murre Research
6/11/2015	CSL	East Landing	3		Daily Operations
6/11/2015	CSL	East Landing	15		Daily Operations
6/12/2015	CSL	Pinniped Colony	52		Murre Research
6/12/2015	CSL	East Landing	26		Daily Operations
6/12/2015	CSL	North Landing		60	Daily Operations
6/13/2015	CSL	East Landing	54		Field Station Resupply
6/13/2015	CSL	Pinniped Colony	23	4	Murre Research
6/13/2015	CSL	North Landing		150	Murre Research
6/13/2015	CSL	North Landing	3		Daily Operations
6/14/2015	CSL	Pinniped Colony	25	10	Murre Research
6/14/2015	CSL	North Landing		110	Murre Research
6/14/2015	CSL	East Landing	150		Daily Operations
6/14/2015	CSL	East Landing	5		Daily Operations
6/15/2015	CSL	East Landing	15	20	Daily Operations
6/15/2015	CSL	North Landing		230	Daily Operations
6/15/2015	CSL	Pinniped Colony	24		Murre Research
6/16/2015	CSL	North Landing		75	Daily Operations
6/16/2015	CSL	East Landing	50		Daily Operations
6/16/2015	CSL	Pinniped Colony	16		Murre Research
6/16/2015	CSL	East Landing	7		Daily Operations



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6/16/2015	CSL	North Landing		32	Daily Operations
6/17/2015	CSL	Sea Lion Cove		75	Murre Research
6/17/2015	CSL	North Landing	3		Daily Operations
6/18/2015	CSL	Pinniped Colony		35	Murre Research
6/18/2015	CSL	East Landing	9		Murre Research
6/18/2015	CSL	Pinniped Colony	67		Daily Operations
6/19/2015	CSL	North Landing	7		Murre Research
6/20/2015	CSL	North Landing	9		Murre Research
6/20/2015	CSL	Sea Lion Cove	20		Daily Operations
6/20/2015	CSL	Pinniped Colony		10	Murre Research
6/21/2015	CSL	Pinniped Colony	1		Murre Research
6/21/2015	CSL	North Landing		40	Daily Operations
6/21/2015	CSL	East Landing	40		Daily Operations
6/21/2015	CSL	East Landing	20		Daily Operations
6/21/2015	CSL	East Landing	15		Daily Operations
6/22/2015	CSL	North Landing		25	Murre Research
6/22/2015	CSL	East Landing	1		Daily Operations
6/23/2015	CSL	North Landing		25	Daily Operations
6/23/2015	CSL	East Landing		40	Daily Operations
6/24/2015	CSL	East Landing	15		Daily Operations
6/24/2015	CSL	Pinniped Colony	10		Murre Research



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6/25/2015	CSL	East Landing	7		Daily Operations
6/26/2015	CSL	Pinniped Colony	9		Murre Research
6/26/2015	CSL	East Landing	29		Daily Operations
6/26/2015	CSL	East Landing	32		Daily Operations
6/27/2015	CSL	North Landing		30	Murre Research
6/27/2015	CSL	East Landing	1		Daily Operations
6/27/2015	CSL	Pinniped Colony	9		Murre Research
6/28/2015	CSL	Pinniped Colony	6		Murre Research
6/28/2015	CSL	North Landing		30	Murre Research
6/28/2015	CSL	East Landing	1		Daily Operations
6/29/2015	CSL	Pinniped Colony	20		Murre Research
6/29/2015	CSL	North Landing		40	Murre Research
6/29/2015	CSL	East Landing	12		Daily Operations
6/30/2015	CSL	East Landing	7		Daily Operations
6/30/2015	CSL	North Landing		40	Murre Research
7/1/2015	CSL	East Landing	29		Daily Operations
7/1/2015	CSL	East Landing	5		Daily Operations
7/2/2015	CSL	North Landing		40	Murre Research
7/2/2015	CSL	East Landing	12		Daily Operations
7/2/2015	CSL	Pinniped Colony	6		Murre Research
7/3/2015	CSL	North Landing		70	Daily Operations



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7/3/2015	CSL	East Landing	11		Daily Operations
7/4/2015	CSL	North Landing		8	Daily Operations
7/4/2015	CSL	East Landing		10	Daily Operations
7/5/2015	CSL	East Landing	4		Daily Operations
7/5/2015	CSL	North Landing		5	Daily Operations
7/5/2015	CSL	Pinniped Colony	7		Murre Research
7/6/2015	CSL	East Landing	17		Murre Research
7/7/2015	CSL	East Landing	18		Daily Operations
7/7/2015	CSL	Pinniped Colony	5		Murre Research
7/7/2015	CSL	North Landing		11	Murre Research
7/8/2015	CSL	North Landing		16	Daily Operations
7/8/2015	CSL	East Landing	12		Daily Operations
7/9/2015	CSL	North Landing		40	Daily Operations
7/9/2015	CSL	East Landing	12		Daily Operations
7/9/2015	CSL	Pinniped Colony		20	Daily Operations
7/10/2015	CSL	North Landing		40	Murre Research
7/10/2015	CSL	East Landing	7		Daily Operations
7/10/2015	CSL	East Landing	1		Daily Operations
7/10/2015	CSL	Pinniped Colony	7		Daily Operations
7/11/2015	CSL	North Landing		37	Murre Research
7/12/2015	CSL	East Landing	12		Daily Operations
7/12/2015	CSL	North Landing		1	Murre Research



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7/12/2015	CSL	Pinniped Colony	6		Daily Operations
7/13/2015	CSL	North Landing		2	Murre Research
7/13/2015	CSL	East Landing	2		Daily Operations
7/14/2015	CSL	North Landing		10	Murre Research
7/14/2015	CSL	Pinniped Colony		15	Daily Operations
7/14/2015	CSL	North Landing		6	Daily Operations
7/15/2015	CSL	East Landing	5		Daily Operations
7/15/2015	CSL	North Landing		50	Murre Research
7/15/2015	CSL	North Landing		6	Murre Research
7/15/2015	CSL	Pinniped Colony	9		Murre Research
7/16/2015	CSL	North Landing	3		Daily Operations
7/17/2015	CSL	East Landing	1		Murre Research
7/17/2015	CSL	North Landing		15	Murre Research
7/18/2015	CSL	East Landing	3		Daily Operations
7/18/2015	CSL	North Landing		1	Murre Research
7/19/2015	CSL	Pinniped Colony	5		Murre Research
7/19/2015	CSL	North Landing		1	Daily Operations
7/20/2015	CSL	North Landing		5	Daily Operations
7/20/2015	CSL	Sea Lion Cove		10	Daily Operations
7/21/2015	CSL	East Landing	21		Daily Operations
7/21/2015	CSL	East Landing	9		Daily Operations
7/21/2015	CSL	Pinniped Colony	3		Daily Operations



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7/22/2015	CSL	North Landing		3	Murre Research
7/23/2015	CSL	North Landing		50	Murre Research
7/23/2015	CSL	Sea Lion Cove		300	Daily Operations
7/24/2015	CSL	East Landing	12		Daily Operations
7/24/2015	CSL	North Landing	30		Murre Research
7/24/2015	CSL	East Landing	7		Daily Operations
7/24/2015	CSL	Pinniped Colony	5	20	Murre Research
7/25/2015	CSL	Pinniped Colony	25		Daily Operations
7/25/2015	CSL	North Landing		90	Daily Operations
7/26/2015	CSL	Pinniped Colony	40		Daily Operations
7/26/2015	CSL	North Landing		39	Murre Research
7/26/2015	CSL	East Landing	25		Daily Operations
7/27/2015	CSL	Pinniped Colony	40		Daily Operations
7/27/2015	CSL	East Landing	15		Daily Operations
7/27/2015	CSL	North Landing		1	Murre Research
7/28/2015	CSL	East Landing	35		Daily Operations
7/29/2015	CSL	East Landing	56		Daily Operations
7/29/2015	CSL	North Landing		10	Murre Research
7/29/2015	CSL	Sea Lion Cove		36	Daily Operations
7/30/2015	CSL	North Landing		30	Daily Operations
7/30/2015	CSL	East Landing	54		Daily Operations
7/31/2015	CSL	North Landing		20	Daily Operations



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7/31/2015	CSL	East Landing	31		Daily Operations
7/31/2015	CSL	Pinniped Colony		30	Daily Operations
7/31/2015	CSL	East Landing	4		Daily Operations
8/1/2015	CSL	East Landing	8		Daily Operations
8/1/2015	CSL	North Landing	4		Daily Operations
8/1/2015	CSL	North Landing		10	Daily Operations
8/3/2015	CSL	East Landing	10		Daily Operations
8/3/2015	CSL	Sea Lion Cove		15	Daily Operations
8/3/2015	CSL	Pinniped Colony	5	5	Murre Research
8/3/2015	CSL	North Landing		100	Daily Operations
8/4/2015	CSL	East Landing	15		Daily Operations
8/4/2015	CSL	North Landing		45	CAAU Check
8/4/2015	CSL	North Landing	1		Daily Operations
8/5/2015	CSL	North Landing		80	Daily Operations
8/5/2015	CSL	Sea Lion Cove		10	Daily Operations
8/5/2015	CSL	East Landing	7		Daily Operations
8/5/2015	CSL	North Landing	35		Daily Operations
8/6/2015	CSL	Sea Lion Cove		30	Daily Operations
8/6/2015	CSL	East Landing	7		Daily Operations
8/7/2015	CSL	North Landing		60	Daily Operations
8/7/2015	CSL	East Landing	25		Daily Operations
8/7/2015	CSL	Sea Lion Cove		45	Daily Operations



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8/7/2015	CSL	North Landing		25	Daily Operations
8/8/2015	CSL	East Landing	25		Daily Operations
8/9/2015	CSL	East Landing	17		Field Station Resupply
8/9/2015	CSL	North Landing		17	Field Station Resupply
8/10/2015	CSL	Sea Lion Cove		20	Daily Operations
8/10/2015	CSL	East Landing	20		Daily Operations
8/11/2015	CSL	East Landing	3		Daily Operations
8/11/2015	CSL	Sea Lion Cove		15	Daily Operations
8/12/2015	CSL	East Landing	10		Daily Operations
8/13/2015	CSL	North Landing	15		Daily Operations
8/13/2015	CSL	Sea Lion Cove		20	Daily Operations
8/13/2015	CSL	East Landing	5		Daily Operations
8/14/2015	CSL	East Landing	7		Daily Operations
8/15/2015	CSL	Pinniped Colony		30	Daily Operations
8/16/2015	CSL	Pinniped Colony		1	Daily Operations
8/16/2015	CSL	North Landing trail		10	Daily Operations
8/16/2015	CSL	Pinniped Colony		40	Daily Operations
8/16/2015	CSL	Sea Lion Cove		200	Daily Operations
8/17/2015	CSL	East Landing		30	Daily Operations
8/17/2015	CSL	North Landing		700	Daily Operations
8/17/2015	CSL	Pinniped Colony	30		Daily Operations
8/17/2015	CSL	East Landing	6		Daily Operations



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8/18/2015	CSL	Sea Lion Cove		200	Daily Operations
8/18/2015	CSL	North Landing		700	Daily Operations
8/19/2015	CSL	Marine Terrace		50	Daily Operations
8/21/2015	CSL	Marine Terrace		30	Daily Operations
8/21/2015	CSL	Sea Lion Cove		40	Daily Operations
8/22/2015	CSL	North Landing		200	Daily Operations
8/22/2015	CSL	East Landing	40		Daily Operations
8/22/2015	CSL	Sea Lion Cove		150	Daily Operations
8/23/2015	CSL	Marine Terrace			Daily Operations
8/23/2015	CSL	East Landing	50		Daily Operations
8/24/2015	CSL	East Landing	40		Daily Operations
8/24/2015	CSL	North Landing		100	Daily Operations
8/25/2015	CSL	Sea Lion Cove		200	Daily Operations
8/25/2015	CSL	East Landing		40	Daily Operations
8/26/2015	CSL	Sea Lion Cove	150		Daily Operations
8/27/2015	CSL	Sea Lion Cove		100	Daily Operations
8/27/2015	CSL	Marine Terrace		300	Daily Operations
8/27/2015	CSL	Sea Lion Cove	40		Daily Operations
8/27/2015	CSL	East Landing	50		Daily Operations
8/27/2015	CSL	North Landing		40	Daily Operations
8/28/2015	CSL	Marine Terrace		400	Daily Operations
8/28/2015	CSL	Sea Lion Cove		100	Daily Operations



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8/28/2015	CSL	East Landing	40	250	Daily Operations
8/28/2015	CSL	Pinniped Colony	30		Daily Operations
8/29/2015	CSL	Marine Terrace	300		Daily Operations
8/29/2015	CSL	East Landing	50		Field Station Resupply
8/30/2015	CSL	Marine Terrace			Daily Operations
8/31/2015	CSL	Marine Terrace		350	Daily Operations
9/1/2015	CSL	Marine Terrace		700	Daily Operations
9/2/2015	CSL	Marine Terrace		100	Daily Operations
9/4/2015	CSL	Sea Lion Cove		200	Daily Operations
9/4/2015	CSL	North Landing		200	Daily Operations
9/4/2015	CSL	Marine Terrace		150	Daily Operations
9/4/2015	CSL	Marine Terrace		200	Daily Operations
9/5/2015	CSL	Sea Lion Cove		150	Daily Operations
9/5/2015	CSL	Sea Lion Cove		100	Daily Operations
9/5/2015	CSL	Marine Terrace		200	Daily Operations
9/6/2015	CSL	Sea Lion Cove		50	Daily Operations
9/6/2015	CSL	North Landing		10	Daily Operations
9/6/2015	CSL	Marine Terrace		200	Daily Operations
9/6/2015	CSL	Pinniped Colony		25	Daily Operations
9/7/2015	CSL	Marine Terrace		75	Daily Operations
9/7/2015	CSL	Marine Terrace		150	Daily Operations
9/8/2015	CSL	Sea Lion Cove		50	Daily Operations



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9/8/2015	CSL	Marine Terrace		150	Daily Operations
9/8/2015	CSL	Marine Terrace		100	Daily Operations
9/9/2015	CSL	Sea Lion Cove		30	Daily Operations
9/9/2015	CSL	North Landing	30		Field Station Resupply
9/9/2015	CSL	Marine Terrace		150	Daily Operations
9/10/2015	CSL	Marine Terrace		400	Daily Operations
9/11/2015	CSL	Sea Lion Cove		75	Daily Operations
9/11/2015	CSL	Marine Terrace		200	Daily Operations
9/12/2015	CSL	Sea Lion Cove		100	Daily Operations
9/12/2015	CSL	Sea Lion Cove		100	Daily Operations
9/12/2015	CSL	Marine Terrace		200	Daily Operations
9/13/2015	CSL	Sea Lion Cove		200	Daily Operations
9/13/2015	CSL	Marine Terrace	400		Daily Operations
9/13/2015	CSL	Marine Terrace		200	Daily Operations
9/14/2015	CSL	Sea Lion Cove		150	Daily Operations
9/14/2015	CSL	Sea Lion Cove		200	Daily Operations
9/14/2015	CSL	Marine Terrace		250	Daily Operations
9/14/2015	CSL	Marine Terrace		250	Daily Operations
9/14/2015	CSL	East Landing	20		Daily Operations
9/15/2015	CSL	Sea Lion Cove		100	Daily Operations
9/15/2015	CSL	Sea Lion Cove		100	Daily Operations
9/15/2015	CSL	Marine Terrace		100	Daily Operations



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9/16/2015	CSL	Sea Lion Cove		10	Daily Operations
9/16/2015	CSL	Sea Lion Cove		10	Daily Operations
9/16/2015	CSL	East Landing	4		Daily Operations
9/16/2015	CSL	Marine Terrace		10	Daily Operations
9/16/2015	CSL	Marine Terrace		6	Daily Operations
9/16/2015	CSL	Marine Terrace		70	Daily Operations
9/16/2015	CSL	Pinniped Colony		100	Daily Operations
9/17/2015	CSL	Sea Lion Cove		50	Daily Operations
9/17/2015	CSL	Sea Lion Cove		50	Daily Operations
9/17/2015	CSL	Marine Terrace		400	Daily Operations
9/17/2015	CSL	East Landing	2		Daily Operations
9/18/2015	CSL	Sea Lion Cove		70	Daily Operations
9/18/2015	CSL	Sea Lion Cove		70	Daily Operations
9/18/2015	CSL	East Landing	10		Daily Operations
9/18/2015	CSL	East Landing	10		Daily Operations
9/18/2015	CSL	East Landing	10		Daily Operations
9/19/2015	CSL	Sea Lion Cove		70	Daily Operations
9/19/2015	CSL	East Landing	10		Daily Operations
9/19/2015	CSL	Sea Lion Cove		70	Daily Operations
9/19/2015	CSL	North Landing	50		Field Station Resupply
9/20/2015	CSL	East Landing	15		Field Station Resupply
9/20/2015	CSL	Sea Lion Cove		25	Daily Operations



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9/21/2015	CSL	East Landing	30		Daily Operations
9/21/2015	CSL	East Landing	15		Daily Operations
9/21/2015	CSL	Pinniped Colony		20	Daily Operations
9/21/2015	CSL	Sea Lion Cove		60	Daily Operations
9/21/2015	CSL	Sea Lion Cove		15	Daily Operations
9/21/2015	CSL	Marine Terrace		300	Daily Operations
9/22/2015	CSL	East Landing		1	Daily Operations
9/22/2015	CSL	Sea Lion Cove		15	Daily Operations
9/23/2015	CSL	East Landing	5		Daily Operations
9/23/2015	CSL	Sea Lion Cove		100	Daily Operations
9/23/2015	CSL	East Landing	15		Daily Operations
9/23/2015	CSL	Marine Terrace		15	Daily Operations
9/23/2015	CSL	Marine Terrace		100	Daily Operations
9/23/2015	CSL	Pinniped Colony		20	Daily Operations
9/24/2015	CSL	Marine Terrace		3	Daily Operations
9/24/2015	CSL	Sea Lion Cove		50	Daily Operations
9/24/2015	CSL	Marine Terrace		40	Daily Operations
9/24/2015	CSL	Pinniped Colony		9	Daily Operations
9/25/2015	CSL	Pinniped Colony	100		Daily Operations
9/25/2015	CSL	Marine Terrace		75	Daily Operations
9/26/2015	CSL	Sea Lion Cove		70	Daily Operations
9/26/2015	CSL	Sea Lion Cove		20	Daily Operations



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9/26/2015	CSL	North Landing		30	Daily Operations
9/26/2015	CSL	Pinniped Colony		15	Daily Operations
9/26/2015	CSL	Marine Terrace		1000	Daily Operations
9/27/2015	CSL	Sea Lion Cove		100	Daily Operations
9/27/2015	CSL	Sea Lion Cove		5	Daily Operations
9/27/2015	CSL	East Landing	7		Daily Operations
9/28/2015	CSL	Sea Lion Cove		120	Daily Operations
9/30/2015	CSL	Sea Lion Cove		11	Daily Operations
9/30/2015	CSL	Marine Terrace		300	Daily Operations
10/1/2015	CSL	East Landing	25		Daily Operations
10/1/2015	CSL	Marine Terrace		3	Daily Operations
10/2/2015	CSL	Pinniped Colony		2	Daily Operations
10/2/2015	CSL	East Landing		8	Daily Operations
10/2/2015	CSL	East Landing	30		Daily Operations
10/4/2015	CSL	Sea Lion Cove		25	Daily Operations
10/4/2015	CSL	East Landing		50	Daily Operations
10/5/2015	CSL	East Landing	40		Daily Operations
10/5/2015	CSL	Sea Lion Cove		20	Daily Operations
10/6/2015	CSL	East Landing	50		Daily Operations
10/6/2015	CSL	Sea Lion Cove		30	Daily Operations
10/6/2015	CSL	Pinniped Colony	25	15	Murre Research
10/7/2015	CSL	Marine Terrace		20	Daily Operations



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10/7/2015	CSL	East Landing	25		Daily Operations
10/7/2015	CSL	Marine Terrace		45	Daily Operations
10/8/2015	CSL	East Landing	30		Daily Operations
10/8/2015	CSL	Sea Lion Cove		20	Daily Operations
10/9/2015	CSL	Pinniped Colony		100	Daily Operations
10/9/2015	CSL	East Landing	25		Daily Operations
10/9/2015	CSL	North Landing		45	Daily Operations
10/10/2015	CSL	East Landing	30		Field Station Resupply
10/10/2015	CSL	Sea Lion Cove		40	Daily Operations
10/10/2015	CSL	North Landing		40	Daily Operations
10/11/2015	CSL	East Landing	50		Daily Operations
10/11/2015	CSL	Sea Lion Cove		40	Daily Operations
10/11/2015	CSL	North Landing		150	Daily Operations
10/11/2015	CSL	Marine Terrace		250	Daily Operations
10/12/2015	CSL	East Landing	50		Daily Operations
10/12/2015	CSL	East Landing	6		Daily Operations
10/12/2015	CSL	Sea Lion Cove		50	Daily Operations
10/12/2015	CSL	Sea Lion Cove		5	Daily Operations
10/12/2015	CSL	North Landing		20	Daily Operations
10/14/2015	CSL	North Landing		75	Daily Operations
10/14/2015	CSL	East Landing		40	Daily Operations
10/16/2015	CSL	Pinniped Colony		20	Daily Operations



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10/16/2015	CSL	Sea Lion Cove		50	Daily Operations
10/17/2015	CSL	Pinniped Colony		200	Daily Operations
10/18/2015	CSL	East Landing	30		Daily Operations
10/18/2015	CSL	East Landing	2		Daily Operations
10/18/2015	CSL	North Landing		50	Daily Operations
10/18/2015	CSL	Sea Lion Cove		30	Daily Operations
10/18/2015	CSL	East Landing	2		Daily Operations
10/18/2015	CSL	Marine Terrace		75	Daily Operations
10/19/2015	CSL	North Landing		8	Daily Operations
10/19/2015	CSL	East Landing	2		Daily Operations
10/20/2015	CSL	East Landing	2		Daily Operations
10/20/2015	CSL	Sea Lion Cove		50	Daily Operations
10/20/2015	CSL	North Landing		50	Daily Operations
10/21/2015	CSL	Pinniped Colony		150	Daily Operations
10/21/2015	CSL	Sea Lion Cove		50	Daily Operations
10/21/2015	CSL	North Landing		50	Daily Operations
10/21/2015	CSL	Pinniped Colony		5	Daily Operations
10/22/2015	CSL	Sea Lion Cove		30	Daily Operations
10/22/2015	CSL	East Landing		10	Daily Operations
10/23/2015	CSL	Sea Lion Cove		30	Daily Operations
10/23/2015	CSL	North Landing	2	8	Daily Operations
10/24/2015	CSL	Pinniped Colony		15	Daily Operations



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10/24/2015	CSL	North Landing		30	Daily Operations
10/25/2015	CSL	North Landing	2	2	Daily Operations
10/25/2015	CSL	North Landing	1		Daily Operations
10/26/2015	CSL	Marine Terrace		200	Daily Operations
10/26/2015	CSL	North Landing		70	Daily Operations
10/26/2015	CSL	Sea Lion Cove		50	Daily Operations
10/26/2015	CSL	East Landing		1	Daily Operations
10/27/2015	CSL	East Landing		40	Daily Operations
10/27/2015	CSL	Pinniped Colony	10	80	Daily Operations
10/27/2015	CSL	North Landing	1		Daily Operations
10/27/2015	CSL	North Landing		30	Daily Operations
10/28/2015	CSL	Sea Lion Cove		2	Daily Operations
10/28/2015	CSL	North Landing		25	Daily Operations
10/28/2015	CSL	Sea Lion Cove		25	Daily Operations
10/28/2015	CSL	North Landing		20	Daily Operations
10/29/2015	CSL	Sea Lion Cove		35	Daily Operations
10/29/2015	CSL	North Landing		15	Daily Operations
10/30/2015	CSL	North Landing		7	Daily Operations
10/30/2015	CSL	East Landing	3		Daily Operations
10/30/2015	CSL	Pinniped Colony	5	25	Daily Operations
10/30/2015	CSL	Sea Lion Cove		30	Daily Operations
11/2/2015	CSL	East Landing	2		Daily Operations



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11/3/2015	CSL	Sea Lion Cove		35	Daily Operations
11/3/2015	CSL	HEast LandingO		300	Daily Operations
11/5/2015	CSL	North Landing	25		Daily Operations
11/6/2015	CSL	Marine Terrace		25	Daily Operations
11/8/2015	CSL	East Landing	15		Daily Operations
11/8/2015	CSL	North Landing	10	2	Daily Operations
11/9/2015	CSL	East Landing	30		Daily Operations
11/9/2015	CSL	MT by HEast LandingO		12	Daily Operations
11/10/2015	CSL	Marine Terrace		200	Daily Operations
11/11/2015	CSL	East Landing		15	Daily Operations
11/11/2015	CSL	North Landing	20		Daily Operations
11/11/2015	CSL	East Landing	1		Daily Operations
11/11/2015	CSL	Pinniped Colony	1	1	Daily Operations
11/13/2015	CSL	Pinniped Colony		90	Daily Operations
11/13/2015	CSL	Pinniped Colony	1		Daily Operations
11/14/2015	CSL	North Landing	2	20	Daily Operations
11/14/2015	CSL	Sea Lion Cove		60	Daily Operations
11/15/2015	CSL	East Landing	1		Daily Operations
11/16/2015	CSL	Marine Terrace		100	Daily Operations
11/16/2015	CSL	Sea Lion Cove		6	Daily Operations
11/17/2015	CSL	East Landing	1		Daily Operations



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11/18/2015	CSL	North Landing		1	Daily Operations
11/20/2015	CSL	North Landing	10	10	Daily Operations
11/20/2015	CSL	East Landing	1		Daily Operations
11/21/2015	CSL	North Landing	33		Field Station Resupply
11/22/2015	CSL	North Landing	40		Field Station Resupply
11/24/2015	CSL	Marine Terrace		20	Daily Operations
11/25/2015	CSL	Marine Terrace		100	Field Station Resupply
11/25/2015	CSL	North Landing	40		Field Station Resupply
11/26/2015	CSL	East Landing	1		Daily Operations
11/29/2015	CSL	Sea Lion Cove		3	Daily Operations
11/30/2015	CSL	Marine Terrace		100	Daily Operations
12/3/2015	CSL	East Landing		1	Daily Operations
12/3/2015	CSL	Pinniped Colony		80	Daily Operations
12/4/2015	CSL	North Landing	20	100	Daily Operations
12/4/2015	CSL	Pinniped Colony		5	Daily Operations
12/5/2015	CSL	North Landing		20	Daily Operations
12/6/2015	CSL	Sea Lion Cove	10		Daily Operations
12/7/2015	CSL	North Landing		30	Daily Operations
12/8/2015	CSL	Pinniped Colony	300	100	Daily Operations
12/8/2015	CSL	North Landing		20	Daily Operations
12/9/2015	CSL	Pinniped Colony	300	100	Daily Operations
12/9/2015	CSL	Pinniped Colony	15	100	Daily Operations



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12/9/2015	CSL	Sea Lion Cove		25	Daily Operations
12/10/2015	CSL	Sea Lion Cove	35	15	Daily Operations
12/10/2015	CSL	Pinniped Colony	125	75	Daily Operations
12/10/2015	CSL	Marine Terrace	20		Daily Operations
12/11/2015	CSL	Sea Lion Cove		100	Daily Operations
12/12/2015	CSL	Sea Lion Cove		16	Daily Operations
12/12/2015	CSL	North Landing	1	3	Daily Operations
12/20/2015	CSL	Pinniped Colony	25	0	Daily Operations
12/21/2015	CSL	Pinniped Colony	173	25	Daily Operations
12/22/2015	CSL	Pinniped Colony	132	0	Daily Operations
12/23/2015	CSL	Pinniped Colony	175	25	Daily Operations
12/23/2015	CSL	Pinniped Colony	0	10	Daily Operations
12/23/2015	CSL	North Landing	0	26	Daily Operations
12/24/2015	CSL	Pinniped Colony	78	35	Daily Operations
12/25/2015	CSL	Pinniped Colony	142	0	Daily Operations
12/26/2015	CSL	Pinniped Colony	75	23	Daily Operations
12/27/2015	CSL	Pinniped Colony	40	15	Daily Operations
12/27/2015	CSL	Pinniped Colony	1	0	Daily Operations
12/29/2015	CSL	Pinniped Colony	110	10	Daily Operations
12/30/2015	CSL	Pinniped Colony	75	16	Daily Operations
12/30/2015	CSL	Pinniped Colony	0	150	Daily Operations
12/31/2015	CSL	Pinniped Colony	40	15	Daily Operations



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1/1/2016	CSL	Pinniped Colony	30	10	Daily Operations
1/2/2016	CSL	Pinniped Colony	33	5	Daily Operations
1/3/2016	CSL	Pinniped Colony	30	12	Daily Operations
1/3/2016	CSL	Pinniped Colony	10	21	Daily Operations
1/4/2016	CSL	Pinniped Colony	46	1	Daily Operations
1/4/2016	CSL	North Landing	7	0	Daily Operations
1/5/2016	CSL	Pinniped Colony	81	8	Daily Operations
1/5/2016	CSL	Sea Lion Cove	0	10	Daily Operations
1/6/2016	CSL	Pinniped Colony	25	9	Daily Operations
1/6/2016	CSL	North Landing	0	1	Daily Operations
1/7/2016	CSL	Pinniped Colony	120	10	Daily Operations
1/7/2016	CSL	Pinniped Colony	2	0	Daily Operations
1/7/2016	CSL	North Landing	0	8	Daily Operations
1/8/2016	CSL	Pinniped Colony	280	20	Daily Operations
1/9/2016	CSL	Pinniped Colony	28	0	Daily Operations
1/9/2016	CSL	North Landing	1	0	Daily Operations
1/9/2016	CSL	Pinniped Colony	0	12	Daily Operations
1/10/2016	CSL	Pinniped Colony	80	10	Daily Operations
1/10/2016	CSL	Pinniped Colony	1	15	Daily Operations
1/10/2016	CSL	East Landing	0	1	Daily Operations
1/11/2016	CSL	Pinniped Colony	65	5	Daily Operations
1/12/2016	CSL	Pinniped Colony	55	5	Daily Operations



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1/13/2016	CSL	Pinniped Colony	40	10	Daily Operations
1/14/2016	CSL	North Landing	7	20	Daily Operations
1/14/2016	CSL	Pinniped Colony	33	20	Daily Operations
1/15/2016	CSL	Pinniped Colony	17	11	Daily Operations
1/16/2016	CSL	Pinniped Colony	35	10	Daily Operations
1/17/2016	CSL	Pinniped Colony	85	10	Daily Operations
1/17/2016	CSL	Pinniped Colony	15	20	Daily Operations
1/18/2016	CSL	Pinniped Colony	150	20	Daily Operations
1/19/2016	CSL	Pinniped Colony	40	15	Daily Operations
1/19/2016	CSL	Sea Lion Cove	0	6	Daily Operations
1/20/2016	CSL	Pinniped Colony	120	30	Daily Operations
1/21/2016	CSL	Pinniped Colony	40	10	Daily Operations
1/21/2016	CSL	East Landing	5	0	Daily Operations
1/21/2016	CSL	Pinniped Colony	20	0	Daily Operations
1/22/2016	CSL	Pinniped Colony	40	5	Daily Operations
1/22/2016	CSL	Pinniped Colony	0	4	Daily Operations
1/22/2016	CSL	East Landing	0	2	Daily Operations
1/23/2016	CSL	Pinniped Colony	80	10	Daily Operations
1/24/2016	CSL	Pinniped Colony	60	20	Daily Operations
1/24/2016	CSL	Sea Lion Cove	0	11	Daily Operations
1/24/2016	CSL	Marine Terrace	3	0	Daily Operations
1/25/2016	CSL	Pinniped Colony	6	20	Daily Operations



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1/26/2016	CSL	Pinniped Colony	11	5	Daily Operations
1/27/2016	CSL	Pinniped Colony	20	10	Daily Operations
1/28/2016	CSL	Pinniped Colony	35	7	Daily Operations
1/28/2016	CSL	North Landing	5	2	Daily Operations
1/29/2016	CSL	Sea Lion Cove	0	15	Daily Operations
1/29/2016	CSL	Pinniped Colony	60	15	Daily Operations
1/30/2016	CSL	Pinniped Colony	5	51	Daily Operations
1/30/2016	CSL	Sea Lion Cove	0	6	Daily Operations
1/31/2016	CSL	Pinniped Colony	5	63	Daily Operations
1/31/2016	CSL	North Landing	4	0	Daily Operations
7/10/2015	SSL	North Landing	0	1	Murre Research
8/1/2015	SSL	North Landing	1	0	Daily Operations
9/15/2015	SSL	Pinniped Colony	1	0	Daily Operations
9/15/2015	SSL	Pinniped Colony	1	0	Daily Operations
9/19/2015	SSL	North Landing	1	0	Daily Operations
9/21/2015	SSL	North Landing	1	0	Daily Operations
9/26/2015	SSL	North Landing	0	1	Daily Operations
11/1/2015	SSL	Pinniped Colony	2	0	Daily Operations
11/1/2015	SSL	Pinniped Colony	3	0	Daily Operations
12/16/2016	SSL	Sea Lion Cove	3	0	Daily Operations
12/22/2016	SSL	Sea Lion Cove	0	3	Daily Operations
12/22/2016	SSL	Pinniped Colony	1	0	Daily Operations



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1/16/2016	SSL	North Landing	1	0	Daily Operations
10/15/2015	ES	Pinniped Colony	0	20	Daily Operations
11/2/2015	ES	East Landing	4	0	Daily Operations
11/20/2015	ES	East Landing	1	0	Daily Operations
11/21/2015	ES	North Landing	0	1	Field Station Resupply
11/23/2015	ES	Pinniped Colony	0	1	Daily Operations
11/25/2015	ES	North Landing	1	0	Field Station Resupply
11/26/2015	ES	Pinniped Colony	0	1	Daily Operations
12/16/2015	ES	Pinniped Colony	1	0	Daily Operations
2/10/2015	HS	East Landing	3		Daily Operations
2/11/2015	HS	Pinniped Colony	1		Daily Operations
2/12/2015	HS	Pinniped Colony	1		Daily Operations
2/17/2015	HS	Pinniped Colony	10		Daily Operations
2/19/2015	HS	Pinniped Colony	16		Daily Operations
2/25/2015	HS	Pinniped Colony	1		Daily Operations
2/27/2015	HS	Pinniped Colony	1		Daily Operations
3/3/2015	HS	Pinniped Colony			Daily Operations
3/9/2015	HS	East Landing	5		Daily Operations
3/10/2015	HS	East Landing	5		Field Station Resupply
3/10/2015	HS	Pinniped Colony	2		Daily Operations
3/19/2015	HS	North Landing	1	3	Daily Operations
4/1/2015	HS	Pinniped Colony	4		Murre Research



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4/7/2015	HS	Pinniped Colony	1		Daily Operations
4/8/2015	HS	East Landing	1		Daily Operations
4/10/2015	HS	East Landing	8		Daily Operations
4/16/2015	HS	Pinniped Colony	2		Daily Operations
5/21/2015	HS	Pinniped Colony	2		Daily Operations
6/5/2015	HS	East Landing	1		Field Station Resupply
6/7/2015	HS	East Landing	1		Daily Operations
6/11/2015	HS	East Landing	4		Field Station Resupply
6/16/2015	HS	Pinniped Colony	1		Murre Research
6/17/2015	HS	Pinniped Colony	3		Murre Research
6/23/2015	HS	Pinniped Colony	2		Murre Research
6/28/2015	HS	East Landing	3		Daily Operations
7/8/2015	HS	East Landing	5		Daily Operations
7/10/2015	HS	East Landing	7		Daily Operations
7/15/2015	HS	Pinniped Colony	2		Murre Research
7/16/2015	HS	East Landing	1		Daily Operations
7/24/2015	HS	East Landing	2		Daily Operations
7/26/2015	HS	East Landing	2		Daily Operations
7/29/2015	HS	North Landing	2		Murre Research
7/31/2015	HS	Pinniped Colony	1		Daily Operations
8/5/2015	HS	North Landing	2		Field Station Resupply
9/7/2015	HS	North Landing	1		Daily Operations



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9/15/2015	HS	East Landing	1		Daily Operations
9/25/2015	HS	Pinniped Colony	50		Daily Operations
9/26/2015	HS	Pinniped Colony	11		Daily Operations
10/6/2015	HS	Pinniped Colony	2		Murre Research
10/7/2015	HS	Pinniped Colony	1		Daily Operations
10/15/2015	HS	Pinniped Colony	5		Daily Operations
10/19/2015	HS	Pinniped Colony	3		Daily Operations
10/26/2015	HS	East Landing	2		Field Station Resupply
10/31/2015	HS	East Landing	1		Field Station Resupply
11/2/2015	HS	Pinniped Colony	3		Daily Operations
11/11/2015	HS	East Landing	1		Field Station Resupply
11/11/2015	HS	Pinniped Colony	3		Daily Operations
11/16/2015	HS	Pinniped Colony	2		Daily Operations
11/18/2015	HS	Pinniped Colony	22		Daily Operations
11/19/2015	HS	Pinniped Colony	2		Daily Operations
11/27/2015	HS	Pinniped Colony	1		Daily Operations
12/1/2015	HS	Pinniped Colony	1		Daily Operations
12/20/2015	HS	Pinniped Colony	4		Daily Operations
12/27/2015	HS	North Landing	4		Field Station Resupply
12/27/2015	HS	East Landing	3		Field Station Resupply
12/27/2015	HS	Pinniped Colony	1		Daily Operations
12/29/2015	HS	East Landing	1		Daily Operations



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1/3/2016	HS	Pinniped Colony	2		Daily Operations
1/6/2016	HS	Pinniped Colony	4		Daily Operations
1/8/2016	HS	Pinniped Colony	1		Daily Operations
1/8/2016	HS	East Landing	1		Daily Operations
1/8/2016	HS	Pinniped Colony	1		Daily Operations
1/10/2016	HS	Pinniped Colony	1		Daily Operations
1/10/2016	HS	Pinniped Colony	1		Daily Operations
1/14/2016	HS	Pinniped Colony	5		Daily Operations
1/17/2016	HS	Pinniped Colony	1		Daily Operations
1/18/2016	HS	Pinniped Colony	9		Daily Operations
1/21/2016	HS	Pinniped Colony	2		Daily Operations
1/21/2016	HS	Pinniped Colony	3		Daily Operations
1/22/2016	HS	Pinniped Colony	1		Daily Operations
1/24/2016	HS	East Landing	3		Daily Operations
1/24/2016	HS	Pinniped Colony	3		Daily Operations
1/25/2016	HS	Pinniped Colony	1		Daily Operations
1/30/2016	HS	Pinniped Colony	2		Daily Operations

Appendix 2. All Oikonos take by date, species, location, type of take, and activity from Año Nuevo Island 1/31/2015 to 1/30/2016.

Date	Species	Location	# > 1m	# Flushed	Activity
3/17/2015	CSL	Landing Cove	1	0	seabird monitoring



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3/17/2015	ES	Landing Cove	6	2	seabird monitoring
3/17/2015	HS	Landing Cove	0	0	seabird monitoring
3/17/2015	SSL	Landing Cove	0	0	seabird monitoring
3/31/2015	CSL	Main Beach	0	0	seabird monitoring
3/31/2015	ES	Landing Cove	4	0	seabird monitoring
3/31/2015	HS	Landing Cove	0	0	seabird monitoring
3/31/2015	SSL	Landing Cove	0	0	seabird monitoring
4/8/2015	CSL	Landing Cove	5	0	seabird monitoring
4/8/2015	ES	Landing Cove	0	3	seabird monitoring
4/8/2015	HS	Landing Cove	0	0	seabird monitoring
4/8/2015	SSL	Landing Cove	0	0	seabird monitoring
4/14/2015	CSL	Landing Cove	3	0	seabird monitoring
4/14/2015	ES	Landing Cove	4	0	seabird monitoring
4/14/2015	HS	Landing Cove	0	0	seabird monitoring
4/14/2015	SSL	Landing Cove	0	0	seabird monitoring
4/17/2015	CSL	Landing Cove	0	0	seabird monitoring
4/17/2015	ES	Landing Cove	10	0	seabird monitoring
4/17/2015	HS	Landing Cove	0	0	seabird monitoring
4/17/2015	SSL	Landing Cove	0	0	seabird monitoring
4/21/2015	CSL	Landing Cove	0	2	seabird monitoring
4/21/2015	ES	Landing Cove	0	2	seabird monitoring
4/21/2015	HS	Landing Cove	0	0	seabird monitoring



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4/21/2015	SSL	Landing Cove	0	0	seabird monitoring
4/28/2015	CSL	Landing Cove	1	0	seabird monitoring
4/28/2015	ES	Landing Cove	0	0	seabird monitoring
4/28/2015	HS	Landing Cove	0	0	seabird monitoring
4/28/2015	SSL	Landing Cove	0	0	seabird monitoring
5/5/2015	CSL	Landing Cove	5	1	seabird monitoring
5/5/2015	ES	Landing Cove	3	1	seabird monitoring
5/5/2015	HS	Landing Cove	0	0	seabird monitoring
5/5/2015	SSL	Landing Cove	0	0	seabird monitoring
5/12/2015	CSL	Landing Cove	0	1	seabird monitoring
5/12/2015	ES	Landing Cove	1	0	seabird monitoring
5/12/2015	HS	Landing Cove	0	0	seabird monitoring
5/12/2015	SSL	Landing Cove	0	0	seabird monitoring
5/19/2015	CSL	Landing Cove	0	3	seabird monitoring
5/19/2015	ES	Landing Cove	0	3	seabird monitoring
5/19/2015	HS	Landing Cove	0	2	seabird monitoring
5/19/2015	SSL	Landing Cove	0	0	seabird monitoring
5/26/2015	CSL	Landing Cove	0	0	seabird monitoring
5/26/2015	ES	Landing Cove	2	2	seabird monitoring
5/26/2015	HS	Landing Cove	0	1	seabird monitoring
5/26/2015	SSL	Landing Cove	0	0	seabird monitoring
6/2/2015	CSL	Landing Cove	10	5	seabird monitoring



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6/2/2015	ES	Landing Cove	0	0	seabird monitoring
6/2/2015	HS	Brown Pelican Cove	0	3	seabird monitoring
6/2/2015	SSL	Landing Cove	1	0	seabird monitoring
6/9/2015	CSL	Landing Cove	0	0	seabird monitoring
6/9/2015	ES	Landing Cove	0	5	seabird monitoring
6/9/2015	HS	Landing Cove	0	0	seabird monitoring
6/9/2015	SSL	Landing Cove	0	0	seabird monitoring
6/16/2015	CSL	Main Beach, Landing Cove	20	6	seabird monitoring
6/16/2015	ES	Landing Cove	0	2	seabird monitoring
6/16/2015	HS	Landing Cove	0	2	seabird monitoring
6/16/2015	SSL	Landing Cove	1	0	seabird monitoring
6/23/2015	CSL	Landing Cove	0	28	seabird monitoring
6/23/2015	ES	Landing Cove	0	1	seabird monitoring
6/23/2015	HS	Landing Cove	0	1	seabird monitoring
6/23/2015	SSL	Landing Cove	0	1	seabird monitoring
6/30/2015	CSL	Landing Cove	0	0	seabird monitoring
6/30/2015	ES	Landing Cove	1	1	seabird monitoring
6/30/2015	HS	Brown Pelican Cove	0	1	seabird monitoring
6/30/2015	SSL	Landing Cove	0	0	seabird monitoring
7/7/2015	CSL	Landing Cove	100	14	seabird monitoring
7/7/2015	ES	Landing Cove	0	0	seabird monitoring



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7/7/2015	HS	Landing Cove	0	3	seabird monitoring
7/7/2015	SSL	Landing Cove	2	1	seabird monitoring
7/14/2015	CSL	Landing Cove	19	4	seabird monitoring
7/14/2015	ES	Landing Cove	6	2	seabird monitoring
7/14/2015	HS	Landing Cove	0	0	seabird monitoring
7/14/2015	SSL	Landing Cove	0	0	seabird monitoring
7/21/2015	CSL	Landing Cove	125	26	seabird monitoring
7/21/2015	ES	Landing Cove	0	4	seabird monitoring
7/21/2015	HS	Landing Cove	0	1	seabird monitoring
7/21/2015	SSL	Landing Cove	1	0	seabird monitoring
7/28/2015	CSL	Landing Cove	25	13	seabird monitoring
7/28/2015	ES	Landing Cove	7	3	seabird monitoring
7/28/2015	HS	Landing Cove	0	0	seabird monitoring
7/28/2015	SSL	Landing Cove	0	0	seabird monitoring
8/4/2015	CSL	Landing Cove	15	3	seabird monitoring
8/4/2015	ES	Landing Cove	5	2	seabird monitoring
8/4/2015	HS	Landing Cove	0	0	seabird monitoring
8/4/2015	SSL	Landing Cove	0	0	seabird monitoring
8/11/2015	CSL	Landing Cove	18	1	seabird monitoring
8/11/2015	ES	Landing Cove	0	0	seabird monitoring
8/11/2015	HS	Landing Cove	0	0	seabird monitoring
8/11/2015	SSL	Landing Cove	1	0	seabird monitoring



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8/18/2015	CSL	Landing Cove	39	22	field station maintenance/restoration
8/18/2015	ES	Landing Cove	1	2	field station maintenance/restoration
8/18/2015	HS	Landing Cove	0	0	field station maintenance/restoration
8/18/2015	SSL	Landing Cove	3	0	field station maintenance/restoration
8/25/2015	CSL	Landing Cove	100	0	field station maintenance/restoration
8/25/2015	ES	Landing Cove	0	0	field station maintenance/restoration
8/25/2015	HS	Landing Cove	0	0	field station maintenance/restoration
8/25/2015	SSL	Landing Cove	0	0	field station maintenance/restoration
8/31/2015	CSL	Landing Cove	24	25	field station maintenance/restoration
8/31/2015	ES	Landing Cove	0	1	field station maintenance/restoration
8/31/2015	HS	Landing Cove	0	0	field station maintenance/restoration
8/31/2015	SSL	Landing Cove	0	0	field station maintenance/restoration
9/14/2015	CSL	Landing Cove	2	0	field station maintenance/restoration



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9/14/2015	ES	Landing Cove	0	2	field station maintenance/restoration
9/14/2015	HS	Landing Cove	0	0	field station maintenance/restoration
9/14/2015	SSL	Landing Cove	0	0	field station maintenance/restoration
9/15/2015	CSL	Landing Cove	15	0	field station maintenance/restoration
9/15/2015	ES	Landing Cove	0	0	field station maintenance/restoration
9/15/2015	HS	Landing Cove	0	0	field station maintenance/restoration
9/15/2015	SSL	Landing Cove	0	0	field station maintenance/restoration
9/16/2015	CSL	Landing Cove	0	4	field station maintenance/restoration
9/16/2015	ES	Landing Cove	0	1	field station maintenance/restoration
9/16/2015	HS	Landing Cove	0	0	field station maintenance/restoration
9/16/2015	SSL	Landing Cove	0	0	field station maintenance/restoration
11/4/2015	CSL	Landing Cove	0	25	field station maintenance/restoration
11/4/2015	ES	Landing Cove	3	1	field station maintenance/restoration



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11/4/2015	HS	Landing Cove	0	0	field station maintenance/restoration
11/4/2015	SSL	Landing Cove	0	0	field station maintenance/restoration
11/5/2015	CSL	Landing Cove	0	13	field station maintenance/restoration
11/5/2015	ES	Landing Cove	15	0	field station maintenance/restoration
11/5/2015	HS	Landing Cove	0	0	field station maintenance/restoration
11/5/2015	SSL	Landing Cove	0	0	field station maintenance/restoration

Appendix 3. All National Parks Service IHA take by date, species, location, type of take, and activity from Point Reyes National Seashore 1/31/2015 to 1/30/2016.

Date	Species	Location	# > 1m	# Flushed	Activity
2/4/2015	CSL	Pinniped Colony	0	1	Surveys
2/18/2015	CSL	Pinniped Colony	0	3	Surveys
2/20/2015	ES	Ken Patrick Visitor Center, Drakes Beach	1	0	Moved to avoid conflicts with tourists
2/20/2015	CSL	Pinniped Colony	0	1	Surveys
2/25/2015	CSL	Pinniped Colony	0	2	Surveys
2/26/2015	CSL	Pinniped Colony	0	1	Surveys
3/4/2015	CSL	Pinniped Colony	0	2	Surveys

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12/19/2015	ES	Ken Patrick Visitor Center, Drakes Beach	0	1	Moving sub adult male elephant seals to avoid conflicts with visitors
12/29/2015	ES	Ken Patrick Visitor Center, Drakes Beach	0	1	Moving sub adult male elephant seals to avoid conflicts with visitors
1/7/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	5	Moving sub adult male elephant seals to avoid conflicts with visitors
1/8/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	5	Moving sub adult male elephant seals to avoid conflicts with visitors
1/8/2016	HS	Pinniped Colony	0	9	Surveys
1/12/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	4	Moving sub adult male elephant seals to avoid conflicts with visitors
1/13/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	5	Moving sub adult male elephant seals to avoid conflicts with visitors
1/21/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	3	Moving sub adult male elephant seals to avoid conflicts with visitors
1/26/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	6	Moving sub adult male elephant seals to avoid conflicts with visitors
1/27/2016	ES	Ken Patrick Visitor Center, Drakes Beach	0	6	Moving sub adult male elephant seals to avoid conflicts with visitors