

GRAY WHALE *Eschrichtius robustus* NORTHBOUND MIGRATION - 2018



Total whales: 948 calves: 99 Number of sightings: 481

This report presents all sightings and tracking of all northbound gray whales, on-effort. Any voided or off-effort sightings have been removed.

Our 2018 survey was conducted from February 14 through May 19, scheduled from 9 to 5 every day except our off-day, Tuesdays. The survey team — Counters — consisted of the Project Coordinator, a Research Assistant, and an array of volunteer Observers, who worked scheduled 2-hour shifts, supervised by the Project Coordinator, who with the Research Assistant, gather data and direct observation.

Observers use Fijinion and Baker Marine 7x50 binoculars with a built-in reticle scale and compass. All of the five pairs are within 1° of standard. For species identification of distant animals, we use a Zeiss spotting scope. When appropriate we have been taking digital images with a Canon 7D Mark 2. Data are entered in pencil on paper datasheets, designed by Gray Whales Count. Datasheets and entry guides are available for download, the last report in this group.

Report Key: Quality is overall observation quality; The number with Beaufort corresponds to the Beaufort scale; Position of the sighting is represented by true bearing, with distance in meters from our observation platform, which faces south. Our eye-height is 13.56 meters (about 44.5 feet).

part of 2018 Gray Whales Count, Survey Report © Gray Whales Count, 2018, Santa Barbara, California, USA
prepared by Michael H Smith, Project Coordinator

GRAY WHALES COUNT IS A NONPROFIT 501(C)(3) CORPORATION FOR RESEARCH AND EDUCATION

Feb 14		Day 1 of 95		Daily Totals whales 11 calves 0	
Sighting Number Images: 5887-92	10	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting		
		11:11 -PST 19:11-GMT	Position: 154° / 827 m Direction: West; Behavior: Speed slow • Traveling		
		11:16 -PST 19:16-GMT	Position: 199° / 678 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	11	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting		
		11:26 -PST 19:26-GMT	Position: 148° / 3088 m Direction: West; Behavior: Speed slow • Traveling		
		11:38 -PST 19:38-GMT	Position: 194° / 1922 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	12	Quality: Good Beaufort: 1	Total whales 2 — 0 calves at sighting		
		12:06 -PST 20:06-GMT	Position: 145° / 1674 m Direction: West; Behavior: Speed slow • Traveling slightly apart		
		12:11 -PST 20:11-GMT	Position: 163° / 1208 m Direction: West; Behavior: Speed slow • Traveling		
		12:14 -PST 20:14-GMT	Position: 173° / 1331 m Direction: West; Behavior: Speed slow • Traveling		
		12:16 -PST 20:16-GMT	Position: 194° / 913 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	13	Quality: Good Beaufort: 1	Total whales 2 — 0 calves at sighting		
		12:07 -PST 20:07-GMT	Position: 142° / 3088 m Direction: West; Behavior: Speed slow • Traveling		
		12:18 -PST 20:18-GMT	Position: 173° / 1331 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	14	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting		
		12:35 -PST 20:35-GMT	Position: 141° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
		12:43 -PST 20:43-GMT	Position: 157° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
		12:47 -PST 20:47-GMT	Position: 172° / 2260 m Direction: West; Behavior: Speed slow • Traveling		
		12:55 -PST 20:55-GMT	Position: 202° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Sighting Number	15	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting		
		12:46 -PST 20:46-GMT	Position: 146° / 1674 m Direction: West; Behavior: Speed slow • Traveling		
		13:12 -PST 21:12-GMT	Position: 176° / 1674 m Direction: West; Behavior: Speed slow • Traveling a long time from 1st sighting		
Sighting Number Images: 5894-5902	16	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting		
		12:49 -PST 20:49-GMT	Position: 162° / 600 m Direction: West; Behavior: Speed slow • Traveling		
		12:53 -PST 20:53-GMT	Position: 224° / 661 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Sighting Number	17	Quality: Good Beaufort: 1	Total whales 2 — 0 calves at sighting		
		13:19 -PST 21:19-GMT	Position: 155° / 2749 m Direction: West; Behavior: Speed slow • Traveling		
		13:26 -PST 21:26-GMT	Position: 163° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
		13:37 -PST 21:37-GMT	Position: 184° / 2749 m Direction: West; Behavior: Speed slow • Traveling		
Feb 15		Day 2 of 95		Daily Totals whales 4 calves 0	
Sighting Number	08	Quality: Good Beaufort: 1	Total whales 2 — 0 calves at sighting		
		12:39 -PST 20:39-GMT	Position: 152° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke		

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	12:43 -PST	20:43-GMT	Position: 160° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	12:48 -PST	20:48-GMT	Position: 174° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	09	Quality: Good Beaufort: 3	Total whales 2 — 0 calves at sighting
	12:45 -PST	20:45-GMT	Position: 154° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	12:47 -PST	20:47-GMT	Position: 163° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	12:49 -PST	20:49-GMT	Position: 178° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	S#8 & #9 — All 4 whales spread out		
<hr/>			
Feb 16	Day 3 of 95		Daily Totals whales 11 calves 0
Sighting Number	04	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	09:19 -PST	17:19-GMT	Position: 118° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke • Breach
	3 breches		
	09:27 -PST	17:27-GMT	Position: 126° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	09:36 -PST	17:36-GMT	Position: 149° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:43 -PST	17:43-GMT	Position: 192° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	10:03 -PST	18:03-GMT	Position: 171° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	12	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	10:41 -PST	18:41-GMT	Position: 149° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	10:50 -PST	18:50-GMT	Position: 202° / 1020 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	13	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	11:02 -PST	19:02-GMT	Position: 149° / 5027 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	17	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	12:40 -PST	20:40-GMT	Position: 139° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	12:46 -PST	20:46-GMT	Position: 176° / 827 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	18	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	13:28 -PST	21:28-GMT	Position: 150° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:33 -PST	21:33-GMT	Position: 172° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:39 -PST	21:39-GMT	Position: 212° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	20	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	14:20 -PST	22:20-GMT	Position: 167° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	14:26 -PST	22:26-GMT	Position: 182° / 2749 m Direction: West; Behavior: Speed slow • Traveling
<hr/>			
Feb 17	Day 4 of 95		Daily Totals whales 8 calves 0
Sighting Number	05	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:30 -PST	17:30-GMT	Position: 139° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	09:41 -PST	17:41-GMT	Position: 161° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 07	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	09:42 -PST 17:42-GMT	Position: 116° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	09:52 -PST 17:52-GMT	Position: 156° / 913 m Direction: West; Behavior: Speed slow • Traveling
	09:56 -PST 17:56-GMT	Position: 183° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 10	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:56 -PST 17:56-GMT	Position: 149° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:04 -PST 18:04-GMT	Position: 202° / 913 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 11	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	10:40 -PST 18:40-GMT	Position: 145° / 946 m Direction: West; Behavior: Speed slow • Traveling
	10:43 -PST 18:43-GMT	Position: 156° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 16	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	12:45 -PST 20:45-GMT	Position: 140° / 539 m Direction: West; Behavior: Speed slow • Traveling
	12:51 -PST 20:51-GMT	Position: 197° / 314 m Direction: West; Behavior: Speed slow • Traveling Now in kelp
Sighting Number 19	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	13:56 -PST 21:56-GMT	Position: 188° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	14:00 -PST 22:00-GMT	Position: 212° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Feb 18	Day 5 of 95	Daily Totals whales 7 calves 0
Sighting Number 02	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	09:15 -PST 17:15-GMT	Position: 145° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:25 -PST 17:25-GMT	Position: 170° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:28 -PST 17:28-GMT	Position: 177° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	09:33 -PST 17:33-GMT	Position: 193° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 14	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	13:05 -PST 21:05-GMT	Position: 162° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:15 -PST 21:15-GMT	Position: 198° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 21	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting
	15:44 -PST 23:44-GMT	Position: 139° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	15:54 -PST 23:54-GMT	Position: 157° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	16:01 -PST 0:01; 2/19/2018-GMT	Position: 177° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Feb 20	Day 7 of 95	Daily Totals whales 6 calves 0
Sighting Number 01	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:04 -PST 17:04-GMT	Position: 177° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 02	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:12 -PST 17:12-GMT	Position: 139° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	09:17 -PST	17:17-GMT	Position: 154° / 883 m Direction: West; Behavior: Speed slow • Traveling
	09:23 -PST	17:23-GMT	Position: 174° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:37 -PST	17:37-GMT	Position: 205° / 778 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	06	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:42 -PST	17:42-GMT	Position: 146° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	09:50 -PST	17:50-GMT	Position: 189° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Good Beaufort: 1	Total whales 3 — 0 calves at sighting
	11:27 -PST	19:27-GMT	Position: 134° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:29 -PST	19:29-GMT	Position: 143° / 913 m Direction: West; Behavior: Speed slow • Traveling
	11:33 -PST	19:33-GMT	Position: 175° / 778 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Feb 21	Day 8 of 95		Daily Totals whales 2 calves 0
Sighting Number	03	Quality: Poor Beaufort: 4	Total whales 2 — 0 calves at sighting
	11:09 -PST	19:09-GMT	Position: 216° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	11:17 -PST	19:17-GMT	Position: 242° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Feb 22	Day 9 of 95		Daily Totals whales 1 calves 0
Sighting Number	02	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:35 -PST	17:35-GMT	Position: 131° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:44 -PST	17:44-GMT	Position: 198° / 696 m Direction: West; Behavior: Speed slow • Traveling
Feb 24	Day 11 of 95		Daily Totals whales 11 calves 0
Sighting Number	04	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:51 -PST	17:51-GMT	Position: 155° / 778 m Direction: West; Behavior: Speed slow • Traveling
	09:59 -PST	17:59-GMT	Position: 224° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	10:37 -PST	18:37-GMT	Position: 137° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	10:44 -PST	18:44-GMT	Position: 147° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	10:49 -PST	18:49-GMT	Position: 163° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	10:57 -PST	18:57-GMT	Position: 171° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	11:07 -PST	19:07-GMT	Position: 197° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	11:57 -PST	19:57-GMT	Position: 152° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:06 -PST	20:06-GMT	Position: 182° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	12:10 -PST	20:10-GMT	Position: 198° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	14	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	12:51 -PST	20:51-GMT	Position: 184° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	13:13 -PST	21:13-GMT	Position: 224° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	13:16 -PST	21:16-GMT	Position: 235° / 2260 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 15	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	13:04 -PST 21:04-GMT	Position: 135° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	13:15 -PST 21:15-GMT	Position: 164° / 1020 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:21 -PST 21:21-GMT	Position: 196° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 16	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	13:32 -PST 21:32-GMT	Position: 170° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	13:41 -PST 21:41-GMT	Position: 202° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 19	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	14:25 -PST 22:25-GMT	Position: 142° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	14:29 -PST 22:29-GMT	Position: 149° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	14:36 -PST 22:36-GMT	Position: 159° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Feb 25	Day 12 of 95	Daily Totals whales 24 calves 0
Sighting Number 03	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:20 -PST 17:20-GMT	Position: 145° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	09:27 -PST 17:27-GMT	Position: 152° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:46 -PST 17:46-GMT	Position: 168° / 3088 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 06	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:41 -PST 17:41-GMT	Position: 143° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	09:45 -PST 17:45-GMT	Position: 152° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	09:51 -PST 17:51-GMT	Position: 161° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 07	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:54 -PST 17:54-GMT	Position: 128° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	09:57 -PST 17:57-GMT	Position: 148° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 09	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	10:22 -PST 18:22-GMT	Position: 131° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:29 -PST 18:29-GMT	Position: 153° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 10 Images: 6257-9	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	10:40 -PST 18:40-GMT	Position: 143° / 539 m Direction: West; Behavior: Speed slow • Traveling • Spyhop stuck rostrum and fluke out simultaneously, possible feeding in kelp
	10:47 -PST 18:47-GMT	Position: 211° / 489 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 11	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	10:48 -PST 18:48-GMT	Position: 136° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	11:05 -PST 19:05-GMT	Position: 200° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 12	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	11:13 -PST 19:13-GMT	Position: 146° / 1106 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

		11:28 -PST	19:28-GMT	Position: 244° / 1483 m Direction: West; Behavior: Speed slow • Traveling snorkeling
Sighting Number	13	Quality: Fair Beaufort: 1		Total whales 3 — 0 calves at sighting
		11:29 -PST	19:29-GMT	Position: 139° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		11:32 -PST	19:32-GMT	Position: 164° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		11:36 -PST	19:36-GMT	Position: 196° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	15	Quality: Fair Beaufort: 1		Total whales 1 — 0 calves at sighting
		12:01 -PST	20:01-GMT	Position: 187° / 678 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	16	Quality: Fair Beaufort: 1 Images: 6303-10		Total whales 3 — 0 calves at sighting
		12:26 -PST	20:26-GMT	Position: 140° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		12:31 -PST	20:31-GMT	Position: 154° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke 2 at 135° and 1 at 143°
Sighting Number	17	Quality: Fair Beaufort: 2		Total whales 2 — 0 calves at sighting
		12:44 -PST	20:44-GMT	Position: 135° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		12:50 -PST	20:50-GMT	Position: 140° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		13:00 -PST	21:00-GMT	Position: 148° / 2749 m Direction: West; Behavior: Speed slow • Traveling
		13:08 -PST	21:08-GMT	Position: 155° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	18	Quality: Fair Beaufort: 2		Total whales 1 — 0 calves at sighting
		13:07 -PST	21:07-GMT	Position: 142° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		13:14 -PST	21:14-GMT	Position: 159° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		13:18 -PST	21:18-GMT	Position: 178° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	19	Quality: Fair Beaufort: 3		Total whales 2 — 0 calves at sighting
		13:54 -PST	21:54-GMT	Position: 143° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		14:03 -PST	22:03-GMT	Position: 151° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		14:11 -PST	22:11-GMT	Position: 164° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Breach breach in front of boat
		14:24 -PST	22:24-GMT	Position: 199° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	20	Quality: Fair Beaufort: 3		Total whales 2 — 0 calves at sighting
		13:57 -PST	21:57-GMT	Position: 155° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		14:06 -PST	22:06-GMT	Position: 205° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	23	Quality: Fair Beaufort: 3		Total whales 1 — 0 calves at sighting
		15:06 -PST	23:06-GMT	Position: 132° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		15:10 -PST	23:10-GMT	Position: 156° / 735 m Direction: West; Behavior: Speed slow • Traveling
		15:16 -PST	23:16-GMT	Position: 198° / 600 m Direction: West; Behavior: Speed slow • Traveling
		15:49 -PST	23:49-GMT	Position: 174° / 489 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	25	Quality: Fair Beaufort: 3 Images: 6312-6		Total whales 1 — 0 calves at sighting
		15:44 -PST	23:44-GMT	Position: 129° / 913 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Feb 26		Day 13 of 95	Daily Totals	whales	5	calves	0
Sighting Number	05	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting				
	10:31 -PST	18:31-GMT	Position: 142° / 1674 m Direction: West; Behavior: Speed slow • Traveling				
	10:36 -PST	18:36-GMT	Position: 148° / 1674 m Direction: West; Behavior: Speed slow • Traveling				
	10:45 -PST	18:45-GMT	Position: 187° / 1208 m Direction: West; Behavior: Speed slow • Traveling				
Sighting Number	06	Quality: Good Beaufort: 3	Total whales 2 — 0 calves at sighting				
	11:39 -PST	19:39-GMT	Position: 130° / 1331 m Direction: West; Behavior: Speed slow • Traveling				
	11:50 -PST	19:50-GMT	Position: 205° / 574 m Direction: West; Behavior: Speed slow • Traveling				
Sighting Number	07	Quality: Poor Beaufort: 3	Total whales 2 — 0 calves at sighting				
	12:05 -PST	20:05-GMT	Position: 139° / 696 m Direction: West; Behavior: Speed slow • Traveling outside kelp				
	12:11 -PST	20:11-GMT	Position: 194° / 471 m Direction: West; Behavior: Speed slow • Traveling				
Feb 28		Day 15 of 95	Daily Totals	whales	6	calves	0
Sighting Number	03	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting				
	09:22 -PST	17:22-GMT	Position: 147° / 2260 m Direction: West; Behavior: Speed slow • Traveling				
	09:27 -PST	17:27-GMT	Position: 165° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke				
Sighting Number	06	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting				
	10:49 -PST	18:49-GMT	Position: 133° / 678 m Direction: West; Behavior: Speed slow • Traveling				
	10:54 -PST	18:54-GMT	Position: 174° / 600 m Direction: West; Behavior: Speed slow • Traveling • Fluke				
Sighting Number	10	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting				
	13:06 -PST	21:06-GMT	Position: 169° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke				
	13:13 -PST	21:13-GMT	Position: 189° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke				
Sighting Number	11	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting				
	13:39 -PST	21:39-GMT	Position: 135° / 1674 m Direction: West; Behavior: Speed slow • Traveling				
	13:55 -PST	21:55-GMT	Position: 187° / 1403 m Direction: West; Behavior: Speed slow • Traveling				
	13:59 -PST	21:59-GMT	Position: 204° / 1208 m Direction: West; Behavior: Speed slow • Traveling				
Sighting Number	12	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting				
	13:55 -PST	21:55-GMT	Position: 183° / 600 m Direction: West; Behavior: Speed slow • Traveling head up				
Sighting Number	13	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting				
	14:46 -PST	22:46-GMT	Position: 152° / 2749 m Direction: West; Behavior: Speed slow • Traveling				
	15:00 -PST	23:00-GMT	Position: 169° / 2749 m Direction: West; Behavior: Speed slow • Traveling				
	15:15 -PST	23:15-GMT	Position: 187° / 1922 m Direction: West; Behavior: Speed slow • Traveling				
	15:32 -PST	23:32-GMT	Position: 218° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke • Breach perhaps reacting to Dsp				
Mar 01		Day 16 of 95	Daily Totals	whales	6	calves	0

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 03	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:19 -PST 17:19-GMT	Position: 155° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	09:21 -PST 17:21-GMT	Position: 169° / 946 m Direction: West; Behavior: Speed slow • Traveling
	09:26 -PST 17:26-GMT	Position: 211° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 07	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	11:46 -PST 19:46-GMT	Position: 161° / 913 m Direction: West; Behavior: Speed slow • Traveling
	11:50 -PST 19:50-GMT	Position: 205° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 08	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting
	13:56 -PST 21:56-GMT	Position: 152° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	14:18 -PST 22:18-GMT	Position: 220° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 10	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	15:43 -PST 23:43-GMT	Position: 130° / 883 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Mar 02	Day 17 of 95	Daily Totals whales 12 calves 0
Sighting Number 03	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	10:16 -PST 18:16-GMT	Position: 187° / 778 m Direction: West; Behavior: Speed slow • Traveling snorkeling
	10:17 -PST 18:17-GMT	Position: 198° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 05	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	10:50 -PST 18:50-GMT	Position: 152° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	10:54 -PST 18:54-GMT	Position: 177° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 07	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	11:36 -PST 19:36-GMT	Position: 143° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:41 -PST 19:41-GMT	Position: 179° / 735 m Direction: West; Behavior: Speed slow • Traveling • Breach 4 breaches just outside kelp
Sighting Number 10	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	12:20 -PST 20:20-GMT	Position: 142° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	12:25 -PST 20:25-GMT	Position: 161° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 13	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	14:14 -PST 22:14-GMT	Position: 143° / 883 m Direction: West; Behavior: Speed slow • Traveling
	14:21 -PST 22:21-GMT	Position: 180° / 735 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 14	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	14:37 -PST 22:37-GMT	Position: 153° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	14:43 -PST 22:43-GMT	Position: 195° / 827 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 15	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	15:26 -PST 23:26-GMT	Position: 219° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number	16	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		15:28 -PST 23:28-GMT	Position: 206° / 3528 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		15:59 -PST 23:59-GMT	Position: 137° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:15 -PST 0:15; 3/3/2018-GMT	Position: 171° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Mar 03		Day 18 of 95	Daily Totals whales 17 calves 0
Sighting Number	01	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		09:00 -PST 17:00-GMT	Position: 159° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		09:11 -PST 17:11-GMT	Position: 229° / 1020 m Direction: West; Behavior: Speed slow • Traveling
		09:17 -PST 17:17-GMT	Position: 242° / 1483 m Direction: West; Behavior: Speed slow • Traveling
		09:20 -PST 17:20-GMT	Position: 254° / 1674 m Direction: West; Behavior: Speed slow • Traveling
		09:22 -PST 17:22-GMT	Position: 260° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		09:04 -PST 17:04-GMT	Position: 164° / 778 m Direction: West; Behavior: Speed slow • Traveling
		09:08 -PST 17:08-GMT	Position: 184° / 778 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:11 -PST 17:11-GMT	Position: 230° / 827 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		09:14 -PST 17:14-GMT	Position: 150° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		09:28 -PST 17:28-GMT	Position: 165° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:36 -PST 17:36-GMT	Position: 194° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	06	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		09:45 -PST 17:45-GMT	Position: 178° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:50 -PST 17:50-GMT	Position: 192° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:55 -PST 17:55-GMT	Position: 205° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 3	
		11:32 -PST 19:32-GMT	Position: 145° / 1674 m Direction: West; Behavior: Speed slow • Traveling
		11:36 -PST 19:36-GMT	Position: 160° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 3	
		11:38 -PST 19:38-GMT	Position: 180° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		11:43 -PST 19:43-GMT	Position: 185° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	11	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 3	
		11:51 -PST 19:51-GMT	Position: 134° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		12:00 -PST 20:00-GMT	Position: 144° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		12:16 -PST 20:16-GMT	Position: 169° / 2749 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 12	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting
	12:56 -PST 20:56-GMT	Position: 154° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	13:04 -PST 21:04-GMT	Position: 164° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	13:16 -PST 21:16-GMT	Position: 191° / 2749 m Direction: West; Behavior: Speed slow • Traveling
4 breaches by holly		
Sighting Number 13	Quality: Fair Beaufort: 4	Total whales 1 — 0 calves at sighting
	12:58 -PST 20:58-GMT	Position: 165° / 883 m Direction: West; Behavior: Speed slow • Traveling
Mar 04	Day 19 of 95	Daily Totals whales 36 calves 0
Sighting Number 01	Quality: Good Beaufort: 1	Total whales 3 — 0 calves at sighting
	08:51 -PST 16:51-GMT	Position: 178° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	08:55 -PST 16:55-GMT	Position: 192° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	09:01 -PST 17:01-GMT	Position: 210° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 04	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:20 -PST 17:20-GMT	Position: 139° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	09:33 -PST 17:33-GMT	Position: 184° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 06	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:35 -PST 17:35-GMT	Position: 164° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 07	Quality: Good Beaufort: 1	Total whales 2 — 0 calves at sighting
	09:41 -PST 17:41-GMT	Position: 150° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	09:51 -PST 17:51-GMT	Position: 172° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	09:54 -PST 17:54-GMT	Position: 184° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 08	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:51 -PST 17:51-GMT	Position: 172° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 10	Quality: Good Beaufort: 1	Total whales 1 — 0 calves at sighting
	10:16 -PST 18:16-GMT	Position: 164° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	10:22 -PST 18:22-GMT	Position: 194° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 11	Quality: Good Beaufort: 1	Total whales 3 — 0 calves at sighting
	10:21 -PST 18:21-GMT	Position: 142° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Rolling • Sharking
	10:25 -PST 18:25-GMT	Position: 157° / 1208 m Direction: West; Behavior: Speed slow • Traveling
	10:30 -PST 18:30-GMT	Position: 188° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 12	Quality: Good Beaufort: 2	Total whales 1 — 0 calves at sighting
	10:37 -PST 18:37-GMT	Position: 144° / 696 m Direction: West; Behavior: Speed slow • Traveling
	10:40 -PST 18:40-GMT	Position: 165° / 696 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 13	Quality: Good Beaufort: 1	Total whales 2 — 0 calves at sighting
	11:00 -PST 19:00-GMT	Position: 135° / 3088 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	11:10 -PST	19:10-GMT	Position: 160° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	11:15 -PST	19:15-GMT	Position: 183° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	14	Quality: Good Beaufort: 3	Total whales 2 — 0 calves at sighting
	11:09 -PST	19:09-GMT	Position: 136° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	11:17 -PST	19:17-GMT	Position: 159° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	15	Quality: Good Beaufort: 3	Total whales 2 — 0 calves at sighting
	11:16 -PST	19:16-GMT	Position: 135° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	11:23 -PST	19:23-GMT	Position: 149° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Breach 2 breaches
	11:32 -PST	19:32-GMT	Position: 171° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Good Beaufort: 3	Total whales 1 — 0 calves at sighting
	12:19 -PST	20:19-GMT	Position: 163° / 1208 m Direction: West; Behavior: Speed slow • Traveling
	12:33 -PST	20:33-GMT	Position: 243° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	18	Quality: Good Beaufort: 3	Total whales 1 — 0 calves at sighting
	13:18 -PST	21:18-GMT	Position: 155° / 778 m Direction: West; Behavior: Speed slow • Traveling
	13:24 -PST	21:24-GMT	Position: 223° / 574 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	20	Quality: Good Beaufort: 4	Total whales 2 — 0 calves at sighting
	13:38 -PST	21:38-GMT	Position: 143° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	13:57 -PST	21:57-GMT	Position: 163° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	21	Quality: Good Beaufort: 4	Total whales 2 — 0 calves at sighting
	14:17 -PST	22:17-GMT	Position: 168° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	14:19 -PST	22:19-GMT	Position: 186° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	22	Quality: Good Beaufort: 3	Total whales 2 — 0 calves at sighting
	14:40 -PST	22:40-GMT	Position: 143° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	14:48 -PST	22:48-GMT	Position: 180° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	23	Quality: Good Beaufort: 3	Total whales 1 — 0 calves at sighting
	14:51 -PST	22:51-GMT	Position: 143° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	14:56 -PST	22:56-GMT	Position: 165° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	24	Quality: Good Beaufort: 3	Total whales 2 — 0 calves at sighting
	15:08 -PST	23:08-GMT	Position: 142° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	15:17 -PST	23:17-GMT	Position: 160° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	25	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting
	15:36 -PST	23:36-GMT	Position: 119° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Breach 3 breaches
	15:54 -PST	23:54-GMT	Position: 139° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Rolling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	16:07 -PST	0:07; 3/5/2018-GMT	Position: 160° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	27	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting
	16:37 -PST	0:37; 3/5/2018-GMT	Position: 134° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	16:46 -PST	0:46; 3/5/2018-GMT	Position: 141° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	16:54 -PST	0:54; 3/5/2018-GMT	Position: 149° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Mar 05	Day 20 of 95		Daily Totals whales 16 calves 0
Sighting Number	05	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:58 -PST	17:58-GMT	Position: 145° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:15 -PST	18:15-GMT	Position: 218° / 1020 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	06	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	10:00 -PST	18:00-GMT	Position: 135° / 1208 m Direction: West; Behavior: Speed slow • Traveling
	10:04 -PST	18:04-GMT	Position: 143° / 1020 m Direction: West; Behavior: Speed slow • Traveling
	10:24 -PST	18:24-GMT	Position: 214° / 696 m Direction: West; Behavior: Speed slow • Traveling snorkeling
Sighting Number	08	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	10:53 -PST	18:53-GMT	Position: 136° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke regular, both fluke
	10:59 -PST	18:59-GMT	Position: 146° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	09	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	11:14 -PST	19:14-GMT	Position: 145° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	11:25 -PST	19:25-GMT	Position: 162° / 2749 m Direction: West; Behavior: Speed slow • Traveling 4 blows
	11:33 -PST	19:33-GMT	Position: 182° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke 3 blows
Sighting Number	11	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	12:20 -PST	20:20-GMT	Position: 137° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:27 -PST	20:27-GMT	Position: 150° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	12:33 -PST	20:33-GMT	Position: 182° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	12	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	12:48 -PST	20:48-GMT	Position: 145° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	12:58 -PST	20:58-GMT	Position: 204° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	13	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	14:18 -PST	22:18-GMT	Position: 138° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	14:33 -PST	22:33-GMT	Position: 207° / 1106 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number	14	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 2	
		14:45 -PST 22:45-GMT	Position: 174° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	15	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 2	
		14:58 -PST 22:58-GMT	Position: 218° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	16	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 2	
		15:02 -PST 23:02-GMT	Position: 204° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	18	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 3	
		15:51 -PST 23:51-GMT	Position: 193° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		15:57 -PST 23:57-GMT	Position: 204° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	20	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 3	
		16:00 -PST 0:00; 3/6/2018-GMT	Position: 137° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:08 -PST 0:08; 3/6/2018-GMT	Position: 157° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:17 -PST 0:17; 3/6/2018-GMT	Position: 188° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Mar 07	Day 22 of 95		Daily Totals whales 18 calves 0
Sighting Number	02	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		09:27 -PST 17:27-GMT	Position: 144° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		09:38 -PST 17:38-GMT	Position: 157° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:47 -PST 17:47-GMT	Position: 168° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:56 -PST 17:56-GMT	Position: 187° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	03	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 0	
		09:28 -PST 17:28-GMT	Position: 144° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:35 -PST 17:35-GMT	Position: 161° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	06	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		10:44 -PST 18:44-GMT	Position: 136° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		10:51 -PST 18:51-GMT	Position: 164° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		10:55 -PST 18:55-GMT	Position: 185° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	07	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		11:31 -PST 19:31-GMT	Position: 138° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		11:50 -PST 19:50-GMT	Position: 164° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		12:00 -PST 20:00-GMT	Position: 159° / 3528 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 0	
		12:01 -PST 20:01-GMT	Position: 175° / 1331 m Direction: West; Behavior: Speed slow • Traveling snorkleing
		12:12 -PST 20:12-GMT	Position: 225° / 1483 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 09	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	12:35 -PST 20:35-GMT	Position: 155° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	12:46 -PST 20:46-GMT	Position: 240° / 1020 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 10	Quality: Fair Beaufort: 0	Total whales 3 — 0 calves at sighting
	12:55 -PST 20:55-GMT	Position: 118° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	12:58 -PST 20:58-GMT	Position: 130° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	13:04 -PST 21:04-GMT	Position: 144° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:14 -PST 21:14-GMT	Position: 205° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 12	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	13:52 -PST 21:52-GMT	Position: 184° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	14:00 -PST 22:00-GMT	Position: 212° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 14	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	14:09 -PST 22:09-GMT	Position: 149° / 883 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	14:16 -PST 22:16-GMT	Position: 210° / 678 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	14:22 -PST 22:22-GMT	Position: 247° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Breach 2 breaches
Sighting Number 16	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	14:53 -PST 22:53-GMT	Position: 149° / 1208 m Direction: West; Behavior: Speed slow • Traveling
	15:00 -PST 23:00-GMT	Position: 194° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 17	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	15:52 -PST 23:52-GMT	Position: 137° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	16:00 -PST 0:00; 3/8/2018-GMT	Position: 171° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 19	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	16:16 -PST 0:16; 3/8/2018-GMT	Position: 134° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	16:22 -PST 0:22; 3/8/2018-GMT	Position: 179° / 661 m Direction: West; Behavior: Speed slow • Traveling • Fluke

Mar 08 Day 23 of 95 Daily Totals whales 19 calves 0

Sighting Number 03	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:30 -PST 17:30-GMT	Position: 139° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	09:34 -PST 17:34-GMT	Position: 157° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 05	Quality: Fair Beaufort: 0	Total whales 4 — 0 calves at sighting
	09:46 -PST 17:46-GMT	Position: 139° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:00 -PST 18:00-GMT	Position: 154° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:09 -PST 18:09-GMT	Position: 174° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 09	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	11:00 -PST 19:00-GMT	Position: 143° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	11:12 -PST 19:12-GMT	Position: 156° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:24 -PST 19:24-GMT	Position: 178° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 10	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	12:32 -PST 20:32-GMT	Position: 152° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	12:41 -PST 20:41-GMT	Position: 198° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 11	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	12:47 -PST 20:47-GMT	Position: 164° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:54 -PST 20:54-GMT	Position: 188° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 12	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	13:01 -PST 21:01-GMT	Position: 144° / 778 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:07 -PST 21:07-GMT	Position: 194° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 14	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	14:42 -PST 22:42-GMT	Position: 140° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	14:50 -PST 22:50-GMT	Position: 164° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	15:02 -PST 23:02-GMT	Position: 224° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 15	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	15:56 -PST 23:56-GMT	Position: 156° / 778 m Direction: West; Behavior: Speed slow • Traveling
	16:03 -PST 0:03; 3/9/2018-GMT	Position: 215° / 661 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 17	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	16:35 -PST 0:35; 3/9/2018-GMT	Position: 148° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	16:41 -PST 0:41; 3/9/2018-GMT	Position: 157° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	16:51 -PST 0:51; 3/9/2018-GMT	Position: 172° / 3088 m Direction: West; Behavior: Speed slow • Traveling
Mar 09	Day 24 of 95	Daily Totals whales 12 calves 0
Sighting Number 01	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	08:50 -PST 16:50-GMT	Position: 224° / 678 m Direction: West; Behavior: Speed slow • Traveling
	08:52 -PST 16:52-GMT	Position: 249° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 02	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	08:55 -PST 16:55-GMT	Position: 146° / 1922 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	09:01 -PST	17:01-GMT	Position: 169° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	09:22 -PST	17:22-GMT	Position: 149° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:27 -PST	17:27-GMT	Position: 165° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Breach 1 breach
Sighting Number	05	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	10:10 -PST	18:10-GMT	Position: 123° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	10:18 -PST	18:18-GMT	Position: 166° / 827 m Direction: West; Behavior: Speed slow • Traveling
	10:22 -PST	18:22-GMT	Position: 186° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	10:29 -PST	18:29-GMT	Position: 134° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	10:36 -PST	18:36-GMT	Position: 169° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
	12:03 -PST	20:03-GMT	Position: 146° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:07 -PST	20:07-GMT	Position: 164° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	08	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	12:20 -PST	20:20-GMT	Position: 140° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	11	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	15:47 -PST	23:47-GMT	Position: 159° / 735 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	15:57 -PST	23:57-GMT	Position: 224° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Mar 11	Day 26 of 95		Daily Totals whales 27 calves 0
Sighting Number	01	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:17 -PDT	16:17-GMT	Position: 150° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:22 -PDT	16:22-GMT	Position: 176° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	09:58 -PDT	16:58-GMT	Position: 148° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:07 -PDT	17:07-GMT	Position: 183° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Fair Beaufort: 0	Total whales 3 — 0 calves at sighting
	11:14 -PDT	18:14-GMT	Position: 143° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	11:41 -PDT	18:41-GMT	Position: 172° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	11:52 -PDT	18:52-GMT	Position: 191° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
Images: 9439-9443			
	11:46 -PDT	18:46-GMT	Position: 154° / 696 m Direction: West; Behavior: Speed slow • Traveling
	11:49 -PDT	18:49-GMT	Position: 184° / 600 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 10	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	12:16 -PDT 19:16-GMT	Position: 132° / 827 m Direction: West; Behavior: Speed slow • Traveling
	12:31 -PDT 19:31-GMT	Position: 201° / 600 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 11	Quality: Fair Beaufort: 0	Total whales 5 — 0 calves at sighting
	12:33 -PDT 19:33-GMT	Position: 168° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke • Rolling
	12:38 -PDT 19:38-GMT	Position: 185° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Rolling
	12:42 -PDT 19:42-GMT	Position: 197° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Rolling
Sighting Number 12	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	13:02 -PDT 20:02-GMT	Position: 143° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:07 -PDT 20:07-GMT	Position: 171° / 913 m Direction: West; Behavior: Speed slow • Traveling
	13:11 -PDT 20:11-GMT	Position: 204° / 883 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 13	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	13:46 -PDT 20:46-GMT	Position: 146° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	13:55 -PDT 20:55-GMT	Position: 166° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 15 Images: 9449-55	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	14:03 -PDT 21:03-GMT	Position: 149° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	14:11 -PDT 21:11-GMT	Position: 164° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	14:17 -PDT 21:17-GMT	Position: 189° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 16	Quality: Fair Beaufort: 0	Total whales 3 — 0 calves at sighting
	14:20 -PDT 21:20-GMT	Position: 147° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	14:25 -PDT 21:25-GMT	Position: 166° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 18	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	14:30 -PDT 21:30-GMT	Position: 201° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	14:35 -PDT 21:35-GMT	Position: 221° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 20	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	14:49 -PDT 21:49-GMT	Position: 166° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 21	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	15:23 -PDT 22:23-GMT	Position: 159° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	15:37 -PDT 22:37-GMT	Position: 174° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 22	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	16:44 -PDT 23:44-GMT	Position: 137° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	16:50 -PDT 23:50-GMT	Position: 160° / 1403 m Direction: West; Behavior: Speed slow • Traveling

Mar 12 Day 27 of 95

Daily Totals whales 28 calves 0

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 01	Quality: Poor Beaufort: 0	Total whales 2 — 0 calves at sighting
	09:04 -PDT 16:04-GMT	Position: 189° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:08 -PDT 16:08-GMT	Position: 195° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 03	Quality: Poor Beaufort: 0	Total whales 2 — 0 calves at sighting
	09:42 -PDT 16:42-GMT	Position: 150° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Rolling
	09:48 -PDT 16:48-GMT	Position: 160° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	09:57 -PDT 16:57-GMT	Position: 181° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 06	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	10:19 -PDT 17:19-GMT	Position: 135° / 2749 m Direction: West; Behavior: Speed slow • Traveling outside Dsp
	10:26 -PDT 17:26-GMT	Position: 151° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	10:31 -PDT 17:31-GMT	Position: 161° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 07	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	10:34 -PDT 17:34-GMT	Position: 173° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:41 -PDT 17:41-GMT	Position: 181° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 09	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	10:56 -PDT 17:56-GMT	Position: 192° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 10	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	11:01 -PDT 18:01-GMT	Position: 135° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	11:06 -PDT 18:06-GMT	Position: 142° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	11:12 -PDT 18:12-GMT	Position: 155° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:17 -PDT 18:17-GMT	Position: 170° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 11	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	11:10 -PDT 18:10-GMT	Position: 136° / 1020 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:14 -PDT 18:14-GMT	Position: 152° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 12	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting
	11:15 -PDT 18:15-GMT	Position: 174° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	11:21 -PDT 18:21-GMT	Position: 189° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 13	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	11:28 -PDT 18:28-GMT	Position: 171° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Breach
	11:30 -PDT 18:30-GMT	Position: 177° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:36 -PDT 18:36-GMT	Position: 200° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 14	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	11:42 -PDT 18:42-GMT	Position: 145° / 2749 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number	15	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting
		12:32 -PDT 19:32-GMT	Position: 136° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		12:39 -PDT 19:39-GMT	Position: 190° / 600 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	16	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting
		12:33 -PDT 19:33-GMT	Position: 203° / 600 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	17	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting
		12:51 -PDT 19:51-GMT	Position: 112° / 2260 m Direction: West; Behavior: Speed slow • Traveling just off kelp
		12:56 -PDT 19:56-GMT	Position: 118° / 946 m Direction: West; Behavior: Speed slow • Traveling
		13:03 -PDT 20:03-GMT	Position: 142° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	19	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
		14:51 -PDT 21:51-GMT	Position: 161° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	21	Quality: Poor Beaufort: 1	Total whales 4 — 0 calves at sighting
		16:16 -PDT 23:16-GMT	Position: 111° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:24 -PDT 23:24-GMT	Position: 119° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:31 -PDT 23:31-GMT	Position: 139° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:33 -PDT 23:33-GMT	Position: 141° / 946 m Direction: West; Behavior: Speed slow • Traveling • Rolling
Mar 14	Day 29 of 95	Daily Totals whales 48 calves 0	
Sighting Number	02	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
		09:05 -PDT 16:05-GMT	Position: 144° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		09:13 -PDT 16:13-GMT	Position: 158° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:18 -PDT 16:18-GMT	Position: 174° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
		09:06 -PDT 16:06-GMT	Position: 141° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:13 -PDT 16:13-GMT	Position: 160° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
		09:23 -PDT 16:23-GMT	Position: 139° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		09:30 -PDT 16:30-GMT	Position: 146° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
		09:37 -PDT 16:37-GMT	Position: 144° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		09:46 -PDT 16:46-GMT	Position: 154° / 3528 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
		09:43 -PDT 16:43-GMT	Position: 140° / 1483 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	09:49 -PDT	16:49-GMT	Position: 154° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 9500-02	07	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	10:00 -PDT	17:00-GMT	Position: 144° / 913 m Direction: West; Behavior: Speed slow • Traveling • Breach 1 breach as boat passed
	10:04 -PDT	17:04-GMT	Position: 194° / 678 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	10:08 -PDT	17:08-GMT	Position: 141° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	10:13 -PDT	17:13-GMT	Position: 159° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair Beaufort: 2	Total whales 3 — 0 calves at sighting
	10:24 -PDT	17:24-GMT	Position: 140° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	10:29 -PDT	17:29-GMT	Position: 148° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	10:36 -PDT	17:36-GMT	Position: 164° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number Images: 9503-07	10	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	10:35 -PDT	17:35-GMT	Position: 156° / 629 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Fair Beaufort: 4	Total whales 1 — 0 calves at sighting
	10:49 -PDT	17:49-GMT	Position: 140° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	10:52 -PDT	17:52-GMT	Position: 151° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	11:00 -PDT	18:00-GMT	Position: 184° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	12	Quality: Fair Beaufort: 4	Total whales 1 — 0 calves at sighting
	11:00 -PDT	18:00-GMT	Position: 170° / 735 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	14	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting
	11:38 -PDT	18:38-GMT	Position: 173° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	15	Quality: Fair Beaufort: 4	Total whales 4 — 0 calves at sighting
	11:56 -PDT	18:56-GMT	Position: 142° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:02 -PDT	19:02-GMT	Position: 159° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	12:08 -PDT	19:08-GMT	Position: 188° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	16	Quality: Poor Beaufort: 4	Total whales 3 — 0 calves at sighting
	12:03 -PDT	19:03-GMT	Position: 145° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:09 -PDT	19:09-GMT	Position: 172° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Poor Beaufort: 4	Total whales 4 — 0 calves at sighting
	12:10 -PDT	19:10-GMT	Position: 137° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:20 -PDT	19:20-GMT	Position: 147° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	18	Quality: Poor Beaufort: 4	Total whales 5 — 0 calves at sighting
	12:26 -PDT	19:26-GMT	Position: 142° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:34 -PDT	19:34-GMT	Position: 152° / 1331 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	12:37 -PDT	19:37-GMT	Position: 156° / 778 m	Direction: West; Behavior: Speed slow • Traveling
	12:44 -PDT	19:44-GMT	Position: 187° / 629 m	Direction: West; Behavior: Speed slow • Traveling
	2 +3			
Sighting Number	19	Quality: Poor Beaufort: 4	Total whales 2 — 0 calves at sighting	
Images: 9508-16	12:42 -PDT	19:42-GMT	Position: 146° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
	12:49 -PDT	19:49-GMT	Position: 161° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
	12:51 -PDT	19:51-GMT	Position: 166° / 2260 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	20	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting	
	12:50 -PDT	19:50-GMT	Position: 142° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
	12:52 -PDT	19:52-GMT	Position: 148° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
	12:56 -PDT	19:56-GMT	Position: 160° / 1331 m	Direction: West; Behavior: Speed slow • Traveling
	13:01 -PDT	20:01-GMT	Position: 189° / 1106 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	21	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting	
	13:19 -PDT	20:19-GMT	Position: 137° / 2260 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:27 -PDT	20:27-GMT	Position: 157° / 1922 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:37 -PDT	20:37-GMT	Position: 189° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	22	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	13:46 -PDT	20:46-GMT	Position: 152° / 1106 m	Direction: West; Behavior: Speed slow • Traveling
	13:51 -PDT	20:51-GMT	Position: 187° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	23	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	13:55 -PDT	20:55-GMT	Position: 149° / 3088 m	Direction: West; Behavior: Speed slow • Traveling
	14:05 -PDT	21:05-GMT	Position: 169° / 2260 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	24	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	14:13 -PDT	21:13-GMT	Position: 146° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
	14:18 -PDT	21:18-GMT	Position: 166° / 1403 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	25	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	15:14 -PDT	22:14-GMT	Position: 151° / 1020 m	Direction: West; Behavior: Speed slow • Traveling
	15:20 -PDT	22:20-GMT	Position: 188° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	26	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting	
	15:56 -PDT	22:56-GMT	Position: 134° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
	16:05 -PDT	23:05-GMT	Position: 164° / 1331 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	28	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting	
	17:00 -PDT	0:00; 3/15/2018-GMT	Position: 139° / 3088 m	Direction: West; Behavior: Speed slow • Traveling
	17:07 -PDT	0:07; 3/15/2018-GMT	Position: 149° / 2749 m	Direction: West; Behavior: Speed slow • Traveling • Breach
	2 breaches			

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Mar 15		Day 30 of 95	Daily Totals	whales 2	calves 0
Sighting Number	01	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting		
		08:56 -PDT 15:56-GMT	Position: 132° / 2749 m Direction: West; Behavior: Speed slow • Traveling		
		09:04 -PDT 16:04-GMT	Position: 145° / 1674 m Direction: West; Behavior: Speed slow • Traveling		
		09:10 -PDT 16:10-GMT	Position: 169° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Mar 16		Day 31 of 95	Daily Totals	whales 11	calves 0
Sighting Number	01	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting		
Images: 9599-609		10:51 -PDT 17:51-GMT	Position: 179° / 678 m Direction: West; Behavior: Speed slow • Traveling		
		10:56 -PDT 17:56-GMT	Position: 199° / 661 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Sighting Number	02	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting		
		11:05 -PDT 18:05-GMT	Position: 139° / 3528 m Direction: West; Behavior: Speed slow • Traveling		
		11:17 -PDT 18:17-GMT	Position: 144° / 3528 m Direction: West; Behavior: Speed slow • Traveling		
		11:30 -PDT 18:30-GMT	Position: 154° / 3088 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	06	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting		
		14:13 -PDT 21:13-GMT	Position: 162° / 913 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Sighting Number	08	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting		
		14:26 -PDT 21:26-GMT	Position: 149° / 2260 m Direction: West; Behavior: Speed slow • Traveling		
		14:32 -PDT 21:32-GMT	Position: 168° / 2260 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	09	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting		
		14:38 -PDT 21:38-GMT	Position: 142° / 2749 m Direction: West; Behavior: Speed slow • Traveling		
		14:47 -PDT 21:47-GMT	Position: 158° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Sighting Number	10	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting		
		14:41 -PDT 21:41-GMT	Position: 178° / 778 m Direction: West; Behavior: Speed slow • Traveling		
Mar 17		Day 32 of 95	Daily Totals	whales 21	calves 0
Sighting Number	01	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting		
		09:11 -PDT 16:11-GMT	Position: 142° / 3528 m Direction: West; Behavior: Speed slow • Traveling		
		09:21 -PDT 16:21-GMT	Position: 151° / 3528 m Direction: West; Behavior: Speed slow • Traveling		
		09:29 -PDT 16:29-GMT	Position: 164° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
Sighting Number	02	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting		
		09:16 -PDT 16:16-GMT	Position: 145° / 883 m Direction: West; Behavior: Speed slow • Traveling		
		09:24 -PDT 16:24-GMT	Position: 209° / 678 m Direction: West; Behavior: Speed slow • Traveling		
Sighting Number	03	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting		
		09:20 -PDT 16:20-GMT	Position: 137° / 3528 m Direction: West; Behavior: Speed slow • Traveling		
		09:32 -PDT 16:32-GMT	Position: 147° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke		
		09:41 -PDT 16:41-GMT	Position: 156° / 2749 m Direction: West; Behavior: Speed slow • Traveling		

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 04	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting	
	09:42 -PDT 16:42-GMT	Position: 139° / 1922 m Direction: West; Behavior: Speed slow • Traveling	
	09:46 -PDT 16:46-GMT	Position: 158° / 1674 m Direction: West; Behavior: Speed slow • Traveling	
	09:52 -PDT 16:52-GMT	Position: 174° / 1403 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 05	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	09:52 -PDT 16:52-GMT	Position: 134° / 1483 m Direction: West; Behavior: Speed slow • Traveling	
	09:56 -PDT 16:56-GMT	Position: 150° / 1208 m Direction: West; Behavior: Speed slow • Traveling	
	10:01 -PDT 17:01-GMT	Position: 176° / 883 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 06	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting	
	10:02 -PDT 17:02-GMT	Position: 139° / 1483 m Direction: West; Behavior: Speed slow • Traveling	
	10:11 -PDT 17:11-GMT	Position: 178° / 946 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 09	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting	
	10:15 -PDT 17:15-GMT	Position: 132° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke	
	10:19 -PDT 17:19-GMT	Position: 144° / 1106 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 11	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting	
	10:39 -PDT 17:39-GMT	Position: 148° / 1674 m Direction: West; Behavior: Speed slow • Traveling	
	10:46 -PDT 17:46-GMT	Position: 176° / 1403 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 13	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting	
	10:44 -PDT 17:44-GMT	Position: 137° / 3088 m Direction: West; Behavior: Speed slow • Traveling	
	10:52 -PDT 17:52-GMT	Position: 153° / 2260 m Direction: West; Behavior: Speed slow • Traveling	
	10:57 -PDT 17:57-GMT	Position: 169° / 1922 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 14	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting	
	10:54 -PDT 17:54-GMT	Position: 163° / 913 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 16	Quality: Fair Beaufort: 4	Total whales 1 — 0 calves at sighting	
	11:20 -PDT 18:20-GMT	Position: 146° / 1106 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number 17	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting	
	11:44 -PDT 18:44-GMT	Position: 144° / 1331 m Direction: West; Behavior: Speed slow • Traveling	
Mar 18	Day 33 of 95	Daily Totals whales 55 calves 1	
	Sighting Number 01	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
		09:06 -PDT 16:06-GMT	Position: 139° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:17 -PDT 16:17-GMT	Position: 167° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 02	Quality: Fair Beaufort: 1	Total whales 5 — 0 calves at sighting	
	09:20 -PDT 16:20-GMT	Position: 139° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke	
	09:27 -PDT 16:27-GMT	Position: 159° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Rolling	

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 9630-9647	03	Quality: Fair Beaufort: 1	Total whales 2 — 1 calf at sighting
	09:32 -PDT	16:32-GMT	Position: 124° / 1106 m Direction: West; Behavior: Speed slow • Traveling calf was a strong swimmer
	09:37 -PDT	16:37-GMT	Position: 150° / 735 m Direction: West; Behavior: Speed slow • Traveling
	09:41 -PDT	16:41-GMT	Position: 168° / 678 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:33 -PDT	16:33-GMT	Position: 152° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 9649-51	08	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	10:52 -PDT	17:52-GMT	Position: 143° / 778 m Direction: West; Behavior: Speed slow • Traveling • Fluke L57227 boat went over the top of them
	10:57 -PDT	17:57-GMT	Position: 177° / 696 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	11:08 -PDT	18:08-GMT	Position: 140° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:18 -PDT	18:18-GMT	Position: 172° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	12:26 -PDT	19:26-GMT	Position: 136° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	12:30 -PDT	19:30-GMT	Position: 141° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:40 -PDT	19:40-GMT	Position: 155° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:52 -PDT	19:52-GMT	Position: 186° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	12	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
	12:58 -PDT	19:58-GMT	Position: 132° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	13:05 -PDT	20:05-GMT	Position: 143° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Rolling • Sharking
	13:10 -PDT	20:10-GMT	Position: 151° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Rolling
Sighting Number	13	Quality: Fair Beaufort: 1	Total whales 4 — 0 calves at sighting
	13:25 -PDT	20:25-GMT	Position: 139° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	13:29 -PDT	20:29-GMT	Position: 143° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	13:39 -PDT	20:39-GMT	Position: 155° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	14	Quality: Fair Beaufort: 1	Total whales 4 — 0 calves at sighting
	13:30 -PDT	20:30-GMT	Position: 135° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:42 -PDT	20:42-GMT	Position: 156° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:52 -PDT	20:52-GMT	Position: 182° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	15	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	13:49 -PDT	20:49-GMT	Position: 158° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:56 -PDT	20:56-GMT	Position: 194° / 1331 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 16	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	14:12 -PDT 21:12-GMT	Position: 139° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Rolling
	14:15 -PDT 21:15-GMT	Position: 148° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	14:18 -PDT 21:18-GMT	Position: 166° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 17	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	14:13 -PDT 21:13-GMT	Position: 140° / 696 m Direction: West; Behavior: Speed slow • Traveling along kelp
	14:20 -PDT 21:20-GMT	Position: 197° / 550 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 18	Quality: Fair Beaufort: 1	Total whales 5 — 0 calves at sighting
	14:30 -PDT 21:30-GMT	Position: 139° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	14:34 -PDT 21:34-GMT	Position: 142° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	14:39 -PDT 21:39-GMT	Position: 147° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 20	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
	14:49 -PDT 21:49-GMT	Position: 222° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 21	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
	15:03 -PDT 22:03-GMT	Position: 180° / 1403 m Direction: West; Behavior: Speed slow • Traveling
	15:08 -PDT 22:08-GMT	Position: 199° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 22	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
	15:36 -PDT 22:36-GMT	Position: 149° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	15:40 -PDT 22:40-GMT	Position: 162° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Rolling • Sharking
Sighting Number 23	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	15:44 -PDT 22:44-GMT	Position: 148° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	15:52 -PDT 22:52-GMT	Position: 161° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 25	Quality: Fair Beaufort: 0	Total whales 4 — 0 calves at sighting
	15:55 -PDT 22:55-GMT	Position: 137° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	16:05 -PDT 23:05-GMT	Position: 145° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	16:15 -PDT 23:15-GMT	Position: 158° / 3528 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 27	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	16:20 -PDT 23:20-GMT	Position: 127° / 1208 m Direction: West; Behavior: Speed slow • Traveling • Breach 2 breches
	16:28 -PDT 23:28-GMT	Position: 148° / 678 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 28	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting
	16:40 -PDT 23:40-GMT	Position: 147° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 29	Quality: Fair Beaufort: 1	Total whales 2 — 0 calves at sighting
	17:00 -PDT 0:00; 3/19/2018-GMT	Position: 130° / 2260 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

17:05 -PDT 0:05; Position: 141° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Rolling
3/19/2018-GMT

Mar 19 Day 34 of 95 Daily Totals whales 35 calves 0

Sighting Number	02	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	09:07 -PDT	16:07-GMT	Position: 158° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	10:51 -PDT	17:51-GMT	Position: 198° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Fair Beaufort: 0 Images: 9694-8	Total whales 4 — 0 calves at sighting
	11:17 -PDT	18:17-GMT	Position: 139° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:23 -PDT	18:23-GMT	Position: 159° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	07	Quality: Fair Beaufort: 0 Images: 9700-17	Total whales 4 — 0 calves at sighting
	11:38 -PDT	18:38-GMT	Position: 139° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke • Rolling
	11:42 -PDT	18:42-GMT	Position: 149° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	08	Quality: Fair Beaufort: 0 Images: 9718-19	Total whales 3 — 0 calves at sighting
	11:56 -PDT	18:56-GMT	Position: 138° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Breach 3 breaches by one whale
	12:03 -PDT	19:03-GMT	Position: 161° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	09	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	12:22 -PDT	19:22-GMT	Position: 158° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	11	Quality: Fair Beaufort: 0	Total whales 3 — 0 calves at sighting
	12:36 -PDT	19:36-GMT	Position: 167° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	12:43 -PDT	19:43-GMT	Position: 176° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	12	Quality: Fair Beaufort: 0	Total whales 4 — 0 calves at sighting
	13:08 -PDT	20:08-GMT	Position: 142° / 3088 m Direction: West; Behavior: Speed slow • Traveling 2+2
	13:19 -PDT	20:19-GMT	Position: 147° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	13	Quality: Fair Beaufort: 0	Total whales 5 — 0 calves at sighting
	14:08 -PDT	21:08-GMT	Position: 154° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	15	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	15:16 -PDT	22:16-GMT	Position: 187° / 550 m Direction: West; Behavior: Speed slow • Traveling next to kelp
Sighting Number	18	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting
	15:51 -PDT	22:51-GMT	Position: 196° / 1208 m Direction: West; Behavior: Speed slow • Traveling
	15:55 -PDT	22:55-GMT	Position: 222° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	15:57 -PDT	22:57-GMT	Position: 234° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number	19	Quality: Fair	Total whales 4 — 0 calves at sighting
		Beaufort: 1	
		16:11 -PDT 23:11-GMT	Position: 224° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	22	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		16:38 -PDT 23:38-GMT	Position: 156° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:43 -PDT 23:43-GMT	Position: 160° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		16:49 -PDT 23:49-GMT	Position: 166° / 3088 m Direction: West; Behavior: Speed slow • Traveling
Mar 23	Day 38 of 95		Daily Totals whales 31 calves 0
Sighting Number	01	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		09:13 -PDT 16:13-GMT	Position: 122° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:23 -PDT 16:23-GMT	Position: 150° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		09:27 -PDT 16:27-GMT	Position: 139° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		09:36 -PDT 16:36-GMT	Position: 150° / 2260 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		11:08 -PDT 18:08-GMT	Position: 139° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		11:45 -PDT 18:45-GMT	Position: 147° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		11:54 -PDT 18:54-GMT	Position: 187° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		12:08 -PDT 19:08-GMT	Position: 121° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		12:13 -PDT 19:13-GMT	Position: 137° / 827 m Direction: West; Behavior: Speed slow • Traveling
		12:22 -PDT 19:22-GMT	Position: 205° / 827 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		12:12 -PDT 19:12-GMT	Position: 133° / 3528 m Direction: West; Behavior: Speed slow • Traveling
		12:21 -PDT 19:21-GMT	Position: 140° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		12:27 -PDT 19:27-GMT	Position: 150° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		12:37 -PDT 19:37-GMT	Position: 175° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	12	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		13:00 -PDT 20:00-GMT	Position: 143° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		13:09 -PDT 20:09-GMT	Position: 184° / 696 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	15	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 2	
		13:37 -PDT 20:37-GMT	Position: 139° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		13:44 -PDT 20:44-GMT	Position: 167° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	16	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 3	
		13:56 -PDT 20:56-GMT	Position: 148° / 1331 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	14:05 -PDT	21:05-GMT	Position: 170° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	14:02 -PDT	21:02-GMT	Position: 137° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	14:16 -PDT	21:16-GMT	Position: 159° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	14:24 -PDT	21:24-GMT	Position: 179° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	18	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	14:12 -PDT	21:12-GMT	Position: 134° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	14:22 -PDT	21:22-GMT	Position: 193° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	19	Quality: Fair Beaufort: 3	Total whales 4 — 0 calves at sighting
	14:35 -PDT	21:35-GMT	Position: 151° / 3528 m Direction: West; Behavior: Speed slow • Traveling 2+2
	14:43 -PDT	21:43-GMT	Position: 160° / 3088 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	20	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting
	15:40 -PDT	22:40-GMT	Position: 188° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	15:45 -PDT	22:45-GMT	Position: 202° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	22	Quality: Fair Beaufort: 2	Total whales 3 — 0 calves at sighting
	16:38 -PDT	23:38-GMT	Position: 141° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	16:42 -PDT	23:42-GMT	Position: 148° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	23	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	16:44 -PDT	23:44-GMT	Position: 174° / 1674 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	24	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	16:45 -PDT	23:45-GMT	Position: 177° / 3528 m Direction: West; Behavior: Speed slow • Traveling
Mar 24	Day 39 of 95		Daily Totals whales 36 calves 0
Sighting Number	01	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	08:56 -PDT	15:56-GMT	Position: 144° / 883 m Direction: West; Behavior: Speed slow • Traveling
	09:06 -PDT	16:06-GMT	Position: 181° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	02	Quality: Fair Beaufort: 2	Total whales 2 — 0 calves at sighting
	09:03 -PDT	16:03-GMT	Position: 145° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	09:11 -PDT	16:11-GMT	Position: 162° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Fair Beaufort: 2	Total whales 6 — 0 calves at sighting
	09:13 -PDT	16:13-GMT	Position: 142° / 2260 m Direction: West; Behavior: Speed slow • Traveling spread out
	09:23 -PDT	16:23-GMT	Position: 176° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting
	09:22 -PDT	16:22-GMT	Position: 144° / 3088 m Direction: West; Behavior: Speed slow • Traveling
	09:29 -PDT	16:29-GMT	Position: 150° / 2749 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	09:44 -PDT	16:44-GMT	Position: 188° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Fair Beaufort: 2	Total whales 3 — 0 calves at sighting	
	09:24 -PDT	16:24-GMT	Position: 138° / 5027 m	Direction: West; Behavior: Speed slow • Traveling
	09:35 -PDT	16:35-GMT	Position: 147° / 3528 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Fair Beaufort: 2	Total whales 6 — 0 calves at sighting	
	09:53 -PDT	16:53-GMT	Position: 138° / 3088 m	Direction: West; Behavior: Speed slow • Traveling 4+2
	09:57 -PDT	16:57-GMT	Position: 146° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
	10:10 -PDT	17:10-GMT	Position: 182° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair Beaufort: 2 Images: 9823-5	Total whales 3 — 0 calves at sighting	
	10:48 -PDT	17:48-GMT	Position: 126° / 1483 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:54 -PDT	17:54-GMT	Position: 147° / 827 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Fair Beaufort: 2	Total whales 4 — 0 calves at sighting	
	10:49 -PDT	17:49-GMT	Position: 147° / 3528 m	Direction: West; Behavior: Speed slow • Traveling
	10:58 -PDT	17:58-GMT	Position: 158° / 3088 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:17 -PDT	18:17-GMT	Position: 177° / 3088 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	14	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting	
	12:47 -PDT	19:47-GMT	Position: 158° / 3528 m	Direction: West; Behavior: Speed slow • Traveling
	12:54 -PDT	19:54-GMT	Position: 166° / 3088 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	15	Quality: Fair Beaufort: 3 Images: 9830-4	Total whales 1 — 0 calves at sighting	
	13:19 -PDT	20:19-GMT	Position: 138° / 1208 m	Direction: West; Behavior: Speed slow • Traveling
	13:24 -PDT	20:24-GMT	Position: 161° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	16	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting	
	13:28 -PDT	20:28-GMT	Position: 142° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
	13:36 -PDT	20:36-GMT	Position: 156° / 2260 m	Direction: West; Behavior: Speed slow • Traveling • Rolling
	13:48 -PDT	20:48-GMT	Position: 190° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Fair Beaufort: 4	Total whales 5 — 0 calves at sighting	
	13:44 -PDT	20:44-GMT	Position: 162° / 1922 m	Direction: West; Behavior: Speed slow • Traveling 4+1
	13:51 -PDT	20:51-GMT	Position: 179° / 1922 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
Mar 25	Day 40 of 95		Daily Totals whales 6 calves 1	
Sighting Number	01	Quality: Fair Beaufort: 4	Total whales 3 — 0 calves at sighting	
	09:11 -PDT	16:11-GMT	Position: 140° / 5027 m	Direction: West; Behavior: Speed slow • Traveling
	09:24 -PDT	16:24-GMT	Position: 147° / 5027 m	Direction: West; Behavior: Speed slow • Traveling
	09:43 -PDT	16:43-GMT	Position: 160° / 3528 m	Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 9840-75	03	Quality: Fair	Total whales 3 — 1 calf at sighting
		Beaufort: 4	
		10:06 -PDT 17:06-GMT	Position: 131° / 913 m Direction: West; Behavior: Speed slow • Traveling
		10:13 -PDT 17:13-GMT	Position: 177° / 600 m Direction: West; Behavior: Speed slow • Traveling
<hr/>			
Mar 26	Day 41 of 95	Daily Totals	whales 42 calves 2
Sighting Number	01	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 3	
		08:55 -PDT 15:55-GMT	Position: 169° / 2749 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 9879-900	02	Quality: Fair	Total whales 4 — 0 calves at sighting
		Beaufort: 3	
		09:22 -PDT 16:22-GMT	Position: 139° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		09:29 -PDT 16:29-GMT	Position: 194° / 696 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	04	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 3	
		09:39 -PDT 16:39-GMT	Position: 160° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 3	
		09:52 -PDT 16:52-GMT	Position: 141° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	06	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 3	
		10:12 -PDT 17:12-GMT	Position: 139° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		10:18 -PDT 17:18-GMT	Position: 154° / 1403 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair	Total whales 4 — 0 calves at sighting
		Beaufort: 3	
		10:20 -PDT 17:20-GMT	Position: 141° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		10:28 -PDT 17:28-GMT	Position: 165° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair	Total whales 4 — 0 calves at sighting
		Beaufort: 3	
		10:23 -PDT 17:23-GMT	Position: 140° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		10:29 -PDT 17:29-GMT	Position: 165° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 9902-14	09	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		10:34 -PDT 17:34-GMT	Position: 146° / 696 m Direction: West; Behavior: Speed slow • Traveling
		10:40 -PDT 17:40-GMT	Position: 176° / 455 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 3	
		10:48 -PDT 17:48-GMT	Position: 144° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		10:58 -PDT 17:58-GMT	Position: 173° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 3	
		11:23 -PDT 18:23-GMT	Position: 154° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		11:27 -PDT 18:27-GMT	Position: 174° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	12	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 3	
		11:31 -PDT 18:31-GMT	Position: 147° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 14	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting
	12:12 -PDT 19:12-GMT	Position: 146° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	12:15 -PDT 19:15-GMT	Position: 159° / 1208 m Direction: West; Behavior: Speed slow • Traveling
	12:19 -PDT 19:19-GMT	Position: 176° / 1020 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 15	Quality: Fair Beaufort: 3	Total whales 3 — 0 calves at sighting
	12:19 -PDT 19:19-GMT	Position: 145° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	12:25 -PDT 19:25-GMT	Position: 158° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 17	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	12:37 -PDT 19:37-GMT	Position: 121° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	12:44 -PDT 19:44-GMT	Position: 143° / 1020 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 18	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	13:08 -PDT 20:08-GMT	Position: 158° / 883 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:13 -PDT 20:13-GMT	Position: 166° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 19	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	13:09 -PDT 20:09-GMT	Position: 145° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 21	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	13:50 -PDT 20:50-GMT	Position: 139° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	13:57 -PDT 20:57-GMT	Position: 154° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 22 Images: 9917-21	Quality: Fair Beaufort: 3	Total whales 2 — 1 calf at sighting
	13:55 -PDT 20:55-GMT	Position: 162° / 913 m Direction: West; Behavior: Speed slow • Traveling
	14:02 -PDT 21:02-GMT	Position: 179° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 23 Images: 9933-6	Quality: Fair Beaufort: 4	Total whales 2 — nd calves at sighting
	16:27 -PDT 23:27-GMT	Position: 174° / 661 m Direction: West; Behavior: Speed slow • Traveling after this entry, images made, then they entered huge glare, saw again traveling calf trail
Mar 28	Day 43 of 95	Daily Totals whales 31 calves 0
Sighting Number 03	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	10:01 -PDT 17:01-GMT	Position: 135° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	10:04 -PDT 17:04-GMT	Position: 140° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	10:08 -PDT 17:08-GMT	Position: 149° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 05	Quality: Fair Beaufort: 1	Total whales 5 — 0 calves at sighting
	10:39 -PDT 17:39-GMT	Position: 143° / 2749 m Direction: West; Behavior: Speed slow • Traveling big whales
	10:42 -PDT 17:42-GMT	Position: 155° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	10:47 -PDT 17:47-GMT	Position: 168° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 06	Quality: Fair Beaufort: 0	Total whales 3 — 0 calves at sighting
	10:41 -PDT 17:41-GMT	Position: 134° / 2749 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	10:43 -PDT	17:43-GMT	Position: 139° / 2749 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:48 -PDT	17:48-GMT	Position: 149° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair Beaufort: 0	Total whales 2 — 0 calves at sighting
	11:23 -PDT	18:23-GMT	Position: 156° / 883 m Direction: West; Behavior: Speed slow • Traveling big whale and bigger whale
Sighting Number	08	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	11:28 -PDT	18:28-GMT	Position: 126° / 2260 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:33 -PDT	18:33-GMT	Position: 139° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:41 -PDT	18:41-GMT	Position: 177° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	10	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	11:38 -PDT	18:38-GMT	Position: 168° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	11	Quality: Fair Beaufort: 0 Images: 0058-69	Total whales 1 — 0 calves at sighting
	12:28 -PDT	19:28-GMT	Position: 128° / 1020 m Direction: West; Behavior: Speed slow • Traveling
	12:34 -PDT	19:34-GMT	Position: 146° / 883 m Direction: West; Behavior: Speed slow • Traveling
	12:38 -PDT	19:38-GMT	Position: 175° / 735 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	12	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	13:26 -PDT	20:26-GMT	Position: 138° / 2749 m Direction: West; Behavior: Speed slow • Traveling
	13:34 -PDT	20:34-GMT	Position: 160° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	13	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	13:44 -PDT	20:44-GMT	Position: 130° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	13:53 -PDT	20:53-GMT	Position: 183° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	14	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	13:47 -PDT	20:47-GMT	Position: 158° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	14:01 -PDT	21:01-GMT	Position: 170° / 3088 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	15	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting
	13:56 -PDT	20:56-GMT	Position: 154° / 913 m Direction: West; Behavior: Speed slow • Traveling
	14:01 -PDT	21:01-GMT	Position: 177° / 827 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Fair Beaufort: 0 Images: 0086-0128	Total whales 3 — 0 calves at sighting
	14:03 -PDT	21:03-GMT	Position: 156° / 696 m Direction: West; Behavior: Speed slow • Traveling Dsp sighting #18 in images
	14:13 -PDT	21:13-GMT	Position: 230° / 696 m Direction: West; Behavior: Speed slow • Traveling 2+1 smaller whale tailing
Sighting Number	20	Quality: Fair Beaufort: 0 Images: 0134-41	Total whales 2 — 0 calves at sighting
	15:23 -PDT	22:23-GMT	Position: 139° / 1106 m Direction: West; Behavior: Speed slow • Traveling
	15:30 -PDT	22:30-GMT	Position: 189° / 946 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 0145-6	22	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		15:40 -PDT 22:40-GMT	Position: 162° / 946 m Direction: West; Behavior: Speed slow • Traveling
		15:45 -PDT 22:45-GMT	Position: 186° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	23	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		16:05 -PDT 23:05-GMT	Position: 153° / 827 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:09 -PDT 23:09-GMT	Position: 176° / 735 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	24	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		16:08 -PDT 23:08-GMT	Position: 173° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	25	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		16:33 -PDT 23:33-GMT	Position: 141° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		16:38 -PDT 23:38-GMT	Position: 160° / 883 m Direction: West; Behavior: Speed slow • Traveling
Mar 29	Day 44 of 95	Daily Totals whales 4 calves 0	
Sighting Number	03	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		10:36 -PDT 17:36-GMT	Position: 135° / 946 m Direction: West; Behavior: Speed slow • Traveling
		10:47 -PDT 17:47-GMT	Position: 224° / 827 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		10:57 -PDT 17:57-GMT	Position: 134° / 913 m Direction: West; Behavior: Speed slow • Traveling
		11:04 -PDT 18:04-GMT	Position: 194° / 661 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 0171-94	06	Quality: Poor	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		11:35 -PDT 18:35-GMT	Position: 154° / 696 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		11:41 -PDT 18:41-GMT	Position: 207° / 629 m Direction: West; Behavior: Speed slow • Traveling
Mar 31	Day 46 of 95	Daily Totals whales 18 calves 0	
Sighting Number	02	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 0	
		12:34 -PDT 19:34-GMT	Position: 163° / 600 m Direction: West; Behavior: Speed slow • Traveling head up
Sighting Number	03	Quality: Poor	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		13:06 -PDT 20:06-GMT	Position: 137° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		13:09 -PDT 20:09-GMT	Position: 164° / 883 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number Images: 0368-73	07	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 0	
		14:45 -PDT 21:45-GMT	Position: 136° / 735 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		14:49 -PDT 21:49-GMT	Position: 163° / 550 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	08	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 0	
		14:49 -PDT 21:49-GMT	Position: 188° / 1020 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 0375-0434	09	Quality: Poor Beaufort: 0	Total whales 7 — 0 calves at sighting
	14:55 -PDT	21:55-GMT	Position: 142° / 1208 m Direction: West; Behavior: Speed slow • Traveling big whales with lots of white on them
	14:58 -PDT	21:58-GMT	Position: 158° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Poor Beaufort: 0	Total whales 1 — 0 calves at sighting
	15:00 -PDT	22:00-GMT	Position: 169° / 1922 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Poor Beaufort: 0	Total whales 3 — 0 calves at sighting
	15:23 -PDT	22:23-GMT	Position: 141° / 1922 m Direction: West; Behavior: Speed slow • Traveling
	15:31 -PDT	22:31-GMT	Position: 164° / 1208 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	12	Quality: Poor Beaufort: 0	Total whales 1 — 0 calves at sighting
	15:53 -PDT	22:53-GMT	Position: 149° / 696 m Direction: West; Behavior: Speed slow • Traveling
	15:57 -PDT	22:57-GMT	Position: 194° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	14	Quality: Poor Beaufort: 0	Total whales 1 — 0 calves at sighting
	16:02 -PDT	23:02-GMT	Position: 138° / 946 m Direction: West; Behavior: Speed slow • Traveling
	16:07 -PDT	23:07-GMT	Position: 177° / 661 m Direction: West; Behavior: Speed slow • Traveling
Apr 01	Day 47 of 95		Daily Totals whales 16 calves 1
Sighting Number	01	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting
	09:56 -PDT	16:56-GMT	Position: 157° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	10:02 -PDT	17:02-GMT	Position: 206° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	02	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting
	10:32 -PDT	17:32-GMT	Position: 167° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:39 -PDT	17:39-GMT	Position: 207° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 0440-0462	03	Quality: Poor Beaufort: 1	Total whales 2 — 1 calf at sighting
	11:10 -PDT	18:10-GMT	Position: 124° / 1331 m Direction: West; Behavior: Speed slow • Traveling
	11:14 -PDT	18:14-GMT	Position: 138° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Poor Beaufort: 1	Total whales 3 — 0 calves at sighting
	12:44 -PDT	19:44-GMT	Position: 121° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:49 -PDT	19:49-GMT	Position: 138° / 1020 m Direction: West; Behavior: Speed slow • Traveling • Rolling
Sighting Number	07	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting
	13:34 -PDT	20:34-GMT	Position: 127° / 1020 m Direction: West; Behavior: Speed slow • Traveling
	13:43 -PDT	20:43-GMT	Position: 195° / 574 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	08	Quality: Poor Beaufort: 1	Total whales 3 — 0 calves at sighting
	13:56 -PDT	20:56-GMT	Position: 116° / 2260 m Direction: West; Behavior: Speed slow • Traveling
	14:08 -PDT	21:08-GMT	Position: 136° / 1106 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	14:25 -PDT	21:25-GMT	Position: 264° / 913 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	09	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting	
	14:14 -PDT	21:14-GMT	Position: 153° / 1106 m	Direction: West; Behavior: Speed slow • Traveling
	14:19 -PDT	21:19-GMT	Position: 175° / 913 m	Direction: West; Behavior: Speed slow • Traveling
	14:21 -PDT	21:21-GMT	Position: 209° / 946 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	12	Quality: Poor Beaufort: 1	Total whales 3 — 0 calves at sighting	
	16:54 -PDT	23:54-GMT	Position: 127° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
	17:08 -PDT	0:08; 4/2/2018-GMT	Position: 155° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
Apr 02	Day 48 of 95		Daily Totals whales 33 calves 1	
Sighting Number	01	Quality: Poor Beaufort: 0 Images: 0530-3	Total whales 2 — 0 calves at sighting	
	09:48 -PDT	16:48-GMT	Position: 134° / 946 m	Direction: West; Behavior: Speed slow • Traveling
	09:54 -PDT	16:54-GMT	Position: 183° / 600 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	02	Quality: Poor Beaufort: 0	Total whales 2 — 0 calves at sighting	
	10:13 -PDT	17:13-GMT	Position: 214° / 1922 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:22 -PDT	17:22-GMT	Position: 226° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Poor Beaufort: 0 Images: 0544-6	Total whales 2 — 0 calves at sighting	
	11:00 -PDT	18:00-GMT	Position: 133° / 1483 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:05 -PDT	18:05-GMT	Position: 156° / 883 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Poor Beaufort: 0	Total whales 2 — 0 calves at sighting	
	11:18 -PDT	18:18-GMT	Position: 135° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
	11:22 -PDT	18:22-GMT	Position: 151° / 1403 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Poor Beaufort: 0 Images: 0548-77	Total whales 2 — 0 calves at sighting	
	11:19 -PDT	18:19-GMT	Position: 136° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
	11:21 -PDT	18:21-GMT	Position: 155° / 946 m	Direction: West; Behavior: Speed slow • Traveling
	11:26 -PDT	18:26-GMT	Position: 204° / 600 m	Direction: West; Behavior: Speed slow • Traveling • Breach 4 breaches
Sighting Number	08	Quality: Poor Beaufort: 0 Images: 0587-89	Total whales 2 — 0 calves at sighting	
	11:38 -PDT	18:38-GMT	Position: 224° / 1483 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	11:45 -PDT	18:45-GMT	Position: 161° / 946 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Poor Beaufort: 1	Total whales 2 — 0 calves at sighting	
	12:56 -PDT	19:56-GMT	Position: 186° / 735 m	Direction: West; Behavior: Speed slow • Traveling
	13:02 -PDT	20:02-GMT	Position: 234° / 629 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Poor Beaufort: 1	Total whales 1 — 0 calves at sighting	
	14:28 -PDT	21:28-GMT	Position: 174° / 629 m	Direction: West; Behavior: Speed slow • Traveling

Sighting Number Images: 0594-612	13	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 1	
		15:23 -PDT 22:23-GMT	Position: 124° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		15:30 -PDT 22:30-GMT	Position: 149° / 735 m Direction: West; Behavior: Speed slow • Traveling
		15:37 -PDT 22:37-GMT	Position: 194° / 550 m Direction: West; Behavior: Speed slow • Traveling showed rostrum, stayed in the same place for 5 min
Sighting Number Images: 0613-21	14	Quality: Fair	Total whales 6 — 0 calves at sighting
		Beaufort: 1	
		15:29 -PDT 22:29-GMT	Position: 134° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		15:33 -PDT 22:33-GMT	Position: 154° / 883 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 0624-35	15	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		15:57 -PDT 22:57-GMT	Position: 127° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		16:00 -PDT 23:00-GMT	Position: 147° / 735 m Direction: West; Behavior: Speed slow • Traveling
		16:07 -PDT 23:07-GMT	Position: 178° / 661 m Direction: West; Behavior: Speed slow • Traveling boat went right over the top of them, got pictures
Sighting Number Images: 0636-61	16	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		16:14 -PDT 23:14-GMT	Position: 136° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		16:18 -PDT 23:18-GMT	Position: 154° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	17	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		16:28 -PDT 23:28-GMT	Position: 135° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		16:36 -PDT 23:36-GMT	Position: 179° / 778 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	18	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		16:43 -PDT 23:43-GMT	Position: 145° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Apr 04	Day 50 of 95	Daily Totals whales 13 calves 0	
Sighting Number Images: 0662-711	01	Quality: Poor	Total whales 4 — 0 calves at sighting
		Beaufort: 0	
		09:00 -PDT 16:00-GMT	Position: 136° / 1208 m Direction: West; Behavior: Speed slow • Traveling big whales
		09:07 -PDT 16:07-GMT	Position: 152° / 778 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:16 -PDT 16:16-GMT	Position: 194° / 528 m Direction: West; Behavior: Speed slow • Traveling • Breach • Fluke 2 breaches
Sighting Number	02	Quality: Poor	Total whales 2 — 0 calves at sighting
		Beaufort: 0	
		09:25 -PDT 16:25-GMT	Position: 179° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	03	Quality: Poor	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		10:19 -PDT 17:19-GMT	Position: 139° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		10:26 -PDT 17:26-GMT	Position: 166° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	04	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		11:28 -PDT 18:28-GMT	Position: 230° / 946 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number	05	Quality: Poor	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		12:13 -PDT 19:13-GMT	Position: 139° / 1106 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		12:15 -PDT 19:15-GMT	Position: 153° / 913 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number Images: 0728-39	06	Quality: Poor	Total whales 2 — 0 calves at sighting
		Beaufort: 2	
		15:49 -PDT 22:49-GMT	Position: 122° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		16:00 -PDT 23:00-GMT	Position: 177° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 1	
		16:53 -PDT 23:53-GMT	Position: 119° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Apr 05	Day 51 of 95		Daily Totals whales 16 calves 0
	Sighting Number	01	Quality: Poor
Beaufort: 0			
09:14 -PDT 16:14-GMT			Position: 138° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:21 -PDT 16:21-GMT	Position: 174° / 735 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	02	Quality: Poor	Total whales 3 — 0 calves at sighting
		Beaufort: 0	
		09:23 -PDT 16:23-GMT	Position: 151° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:31 -PDT 16:31-GMT	Position: 183° / 1403 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	04	Quality: Poor	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		10:02 -PDT 17:02-GMT	Position: 129° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		10:12 -PDT 17:12-GMT	Position: 158° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 2	
		13:46 -PDT 20:46-GMT	Position: 144° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		13:52 -PDT 20:52-GMT	Position: 170° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number Images: 0761-70	09	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 2	
		14:37 -PDT 21:37-GMT	Position: 135° / 1674 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		14:47 -PDT 21:47-GMT	Position: 163° / 946 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	12	Quality: Fair	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		16:57 -PDT 23:57-GMT	Position: 124° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		17:00 -PDT 0:00; 4/6/2018-GMT	Position: 132° / 1208 m Direction: West; Behavior: Speed slow • Traveling
		17:04 -PDT 0:04; 4/6/2018-GMT	Position: 146° / 946 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 0779-80	13	Quality: Fair	Total whales 2 — 0 calves at sighting
		Beaufort: 1	
		17:00 -PDT 0:00; 4/6/2018-GMT	Position: 139° / 735 m Direction: West; Behavior: Speed slow • Traveling
		17:09 -PDT 0:09; 4/6/2018-GMT	Position: 229° / 574 m Direction: West; Behavior: Speed slow • Traveling
Apr 06	Day 52 of 95		Daily Totals whales 9 calves 1

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number 03	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	10:08 -PDT 17:08-GMT	Position: 142° / 3528 m Direction: West; Behavior: Speed slow • Traveling
	10:17 -PDT 17:17-GMT	Position: 154° / 3528 m Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:25 -PDT 17:25-GMT	Position: 168° / 3088 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 04 Images: 0821-34	Quality: Fair Beaufort: 3	Total whales 2 — 1 calf at sighting
	10:31 -PDT 17:31-GMT	Position: 134° / 661 m Direction: West; Behavior: Speed slow • Traveling
	10:36 -PDT 17:36-GMT	Position: 178° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 05 Images: 0817-20	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	10:32 -PDT 17:32-GMT	Position: 169° / 696 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 06 Images: 0840	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	11:37 -PDT 18:37-GMT	Position: 128° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	11:43 -PDT 18:43-GMT	Position: 156° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 08 Images: 0848-56	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting
	13:31 -PDT 20:31-GMT	Position: 181° / 778 m Direction: West; Behavior: Speed slow • Traveling
Apr 07	Day 53 of 95	Daily Totals whales 5 calves 1
Sighting Number 02	Quality: Poor Beaufort: 1	Total whales 2 — 1 calf at sighting
	10:21 -PDT 17:21-GMT	Position: 161° / 913 m Direction: West; Behavior: Speed slow • Traveling
	10:30 -PDT 17:30-GMT	Position: 217° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 03 Images: 0865-77	Quality: Poor Beaufort: 2	Total whales 1 — 0 calves at sighting
	11:07 -PDT 18:07-GMT	Position: 117° / 1674 m Direction: West; Behavior: Speed slow • Traveling
	11:15 -PDT 18:15-GMT	Position: 134° / 883 m Direction: West; Behavior: Speed slow • Traveling
	11:22 -PDT 18:22-GMT	Position: 181° / 528 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 07	Quality: Fair Beaufort: 4	Total whales 1 — 0 calves at sighting
	13:05 -PDT 20:05-GMT	Position: 115° / 1483 m Direction: West; Behavior: Speed slow • Traveling
	13:12 -PDT 20:12-GMT	Position: 135° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 08	Quality: Fair Beaufort: 4	Total whales 1 — 0 calves at sighting
	14:18 -PDT 21:18-GMT	Position: 164° / 827 m Direction: West; Behavior: Speed slow • Traveling
Apr 08	Day 54 of 95	Daily Totals whales 7 calves 0
Sighting Number 01	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	09:40 -PDT 16:40-GMT	Position: 152° / 913 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number 02	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting
	10:10 -PDT 17:10-GMT	Position: 130° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number 03 Images: 1053-8	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting
	10:16 -PDT 17:16-GMT	Position: 129° / 946 m Direction: West; Behavior: Speed slow • Traveling
	10:23 -PDT 17:23-GMT	Position: 181° / 574 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

		10:29 -PDT	17:29-GMT	Position: 224° / 1106 m	Direction: West; Behavior: Speed slow • Traveling • Breach
					1 breach, going around dolphins
Sighting Number	06	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 2			
		11:16 -PDT	18:16-GMT	Position: 145° / 946 m	Direction: West; Behavior: Speed slow • Traveling
		11:21 -PDT	18:21-GMT	Position: 181° / 696 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 4			
		13:28 -PDT	20:28-GMT	Position: 224° / 661 m	Direction: West; Behavior: Speed slow • Traveling
		13:35 -PDT	20:35-GMT	Position: 244° / 1331 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 4			
		14:39 -PDT	21:39-GMT	Position: 135° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
Apr 09	Day 55 of 95				Daily Totals whales 30 calves 9
Sighting Number	01	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 2			
		09:17 -PDT	16:17-GMT	Position: 150° / 778 m	Direction: West; Behavior: Speed slow • Traveling
		09:18 -PDT	16:18-GMT	Position: 157° / 696 m	Direction: West; Behavior: Speed slow • Traveling
					on kelp
Sighting Number	02	Quality: Fair		Total whales 2 — 0 calves at sighting	
		Beaufort: 1			
		09:34 -PDT	16:34-GMT	Position: 138° / 1403 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:43 -PDT	16:43-GMT	Position: 190° / 827 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	03	Quality: Fair		Total whales 3 — 0 calves at sighting	
		Beaufort: 1			
		09:56 -PDT	16:56-GMT	Position: 119° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
		09:59 -PDT	16:59-GMT	Position: 123° / 1403 m	Direction: West; Behavior: Speed slow • Traveling
		10:04 -PDT	17:04-GMT	Position: 141° / 1208 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	04	Quality: Fair		Total whales 2 — 1 calf at sighting	
		Beaufort: 1			
		10:33 -PDT	17:33-GMT	Position: 106° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
					mom has white spot on dorsal ridge
		10:38 -PDT	17:38-GMT	Position: 111° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
		10:46 -PDT	17:46-GMT	Position: 120° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
		10:56 -PDT	17:56-GMT	Position: 142° / 696 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	05	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 1			
		10:51 -PDT	17:51-GMT	Position: 124° / 2260 m	Direction: West; Behavior: Speed slow • Traveling
		10:57 -PDT	17:57-GMT	Position: 138° / 946 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 1			
		11:02 -PDT	18:02-GMT	Position: 130° / 778 m	Direction: West; Behavior: Speed slow • Traveling
		11:08 -PDT	18:08-GMT	Position: 173° / 600 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair		Total whales 2 — 1 calf at sighting	
		Beaufort: 1			
		11:24 -PDT	18:24-GMT	Position: 120° / 1106 m	Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	11:27 -PDT	18:27-GMT	Position: 127° / 883 m	Direction: West; Behavior: Speed slow • Traveling	calf outside
	11:30 -PDT	18:30-GMT	Position: 136° / 661 m	Direction: West; Behavior: Speed slow • Traveling	
	11:40 -PDT	18:40-GMT	Position: 204° / 508 m	Direction: West; Behavior: Speed slow • Traveling	
Sighting Number	08	Quality: Fair Beaufort: 1	Total whales 2 — 1 calf at sighting		
	11:56 -PDT	18:56-GMT	Position: 110° / 2749 m	Direction: West; Behavior: Speed slow • Traveling	
	12:09 -PDT	19:09-GMT	Position: 122° / 1674 m	Direction: West; Behavior: Speed slow • Traveling	
	12:13 -PDT	19:13-GMT	Position: 134° / 1208 m	Direction: West; Behavior: Speed slow • Traveling	
Sighting Number	09	Quality: Fair Beaufort: 1	Total whales 2 — 1 calf at sighting		
Images: 1119-23	12:01 -PDT	19:01-GMT	Position: 115° / 2260 m	Direction: West; Behavior: Speed slow • Traveling	images of sighting #10 + #9 ??
	12:06 -PDT	19:06-GMT	Position: 120° / 1483 m	Direction: West; Behavior: Speed slow • Traveling	
	12:14 -PDT	19:14-GMT	Position: 137° / 1020 m	Direction: West; Behavior: Speed slow • Traveling • Fluke	
	12:19 -PDT	19:19-GMT	Position: 149° / 883 m	Direction: West; Behavior: Speed slow • Traveling	sighting 8+9 joined
Sighting Number	10	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting		
	12:15 -PDT	19:15-GMT	Position: 155° / 696 m	Direction: West; Behavior: Speed slow • Traveling	
	12:17 -PDT	19:17-GMT	Position: 166° / 696 m	Direction: West; Behavior: Speed slow • Traveling	
Sighting Number	12	Quality: Fair Beaufort: 1	Total whales 1 — 0 calves at sighting		
	13:23 -PDT	20:23-GMT	Position: 132° / 1208 m	Direction: West; Behavior: Speed slow • Traveling	
	13:27 -PDT	20:27-GMT	Position: 146° / 1020 m	Direction: West; Behavior: Speed slow • Traveling • Fluke	dolphins came through and whale disappeared
Sighting Number	13	Quality: Fair Beaufort: 3	Total whales 4 — 2 calves at sighting		
Images: 1137-74	13:53 -PDT	20:53-GMT	Position: 102° / 2749 m	Direction: West; Behavior: Speed slow • Traveling	at "goal posts"
	14:02 -PDT	21:02-GMT	Position: 109° / 2749 m	Direction: West; Behavior: Speed slow • Traveling	
	14:16 -PDT	21:16-GMT	Position: 120° / 1483 m	Direction: West; Behavior: Speed slow • Traveling	
	14:24 -PDT	21:24-GMT	Position: 139° / 661 m	Direction: West; Behavior: Speed slow • Traveling	
Sighting Number	14	Quality: Fair Beaufort: 3	Total whales 2 — 0 calves at sighting		
	14:39 -PDT	21:39-GMT	Position: 192° / 913 m	Direction: West; Behavior: Speed slow • Traveling	
	14:43 -PDT	21:43-GMT	Position: 196° / 913 m	Direction: West; Behavior: Speed slow • Traveling	
Sighting Number	15	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting		
	15:00 -PDT	22:00-GMT	Position: 136° / 1403 m	Direction: West; Behavior: Speed slow • Traveling	
	15:06 -PDT	22:06-GMT	Position: 152° / 1403 m	Direction: West; Behavior: Speed slow • Traveling	
	15:17 -PDT	22:17-GMT	Position: 217° / 913 m	Direction: West; Behavior: Speed slow • Traveling	
Sighting Number	16	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting		
Images: 1177-9	15:20 -PDT	22:20-GMT	Position: 177° / 574 m	Direction: West; Behavior: Speed slow • Traveling	next to kelp

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 1181-1207	17	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		15:34 -PDT 22:34-GMT	Position: 112° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		15:42 -PDT 22:42-GMT	Position: 124° / 1331 m Direction: West; Behavior: Speed slow • Traveling
Apr 11		Day 57 of 95	Daily Totals whales 6 calves 2
Sighting Number Images: 1227-57	02	Quality: Fair	Total whales 3 — 1 calf at sighting
		Beaufort: 2	
		10:14 -PDT 17:14-GMT	Position: 129° / 913 m Direction: West; Behavior: Speed slow • Traveling juvenile with mother calf
		10:20 -PDT 17:20-GMT	Position: 159° / 600 m Direction: West; Behavior: Speed slow • Traveling
		10:26 -PDT 17:26-GMT	Position: 208° / 550 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1271-4	09	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		14:37 -PDT 21:37-GMT	Position: 172° / 696 m Direction: West; Behavior: Speed slow • Traveling
		14:40 -PDT 21:40-GMT	Position: 210° / 629 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 2	
		14:43 -PDT 21:43-GMT	Position: 225° / 827 m Direction: West; Behavior: Speed slow • Traveling
Apr 13		Day 59 of 95	Daily Totals whales 12 calves 5
Sighting Number Images: 1275-91	01	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		09:00 -PDT 16:00-GMT	Position: 121° / 1020 m Direction: West; Behavior: Speed slow • Traveling
		09:04 -PDT 16:04-GMT	Position: 153° / 696 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1293-1316	02	Quality: Fair	Total whales 3 — 1 calf at sighting
		Beaufort: 2	
		09:26 -PDT 16:26-GMT	Position: 119° / 1331 m Direction: West; Behavior: Speed slow • Traveling likely 2 mc pairs
		09:36 -PDT 16:36-GMT	Position: 151° / 629 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1318-22	05	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		10:33 -PDT 17:33-GMT	Position: 135° / 778 m Direction: West; Behavior: Speed slow • Traveling
		10:39 -PDT 17:39-GMT	Position: 189° / 678 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1324-57	06	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		11:13 -PDT 18:13-GMT	Position: 134° / 827 m Direction: West; Behavior: Speed slow • Traveling
		11:26 -PDT 18:26-GMT	Position: 229° / 412 m Direction: West; Behavior: Speed slow • Traveling
		11:30 -PDT 18:30-GMT	Position: 254° / 455 m ; Behavior: Speed slow • Traveling hanging in kelp for about 10 min
Sighting Number Images: 1359-1417	08	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		12:04 -PDT 19:04-GMT	Position: 113° / 1922 m Direction: West; Behavior: Speed slow • Traveling a long time off kelp near campus point, heads came up @ 92/3 about 1145
		12:10 -PDT 19:10-GMT	Position: 118° / 1403 m Direction: West; Behavior: Speed slow • Traveling calf inside
		12:14 -PDT 19:14-GMT	Position: 118° / 1106 m Direction: West; Behavior: Speed slow • Traveling next to kelp

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

		12:21 -PDT	19:21-GMT	Position: 115° / 1106 m	Direction: Circling; Behavior: Spyhop heads up
Sighting Number	09	Quality: Fair		Total whales 1 — 0 calves at sighting	
Images: 1419-27		Beaufort: 2			
		14:17 -PDT	21:17-GMT	Position: 134° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
		14:24 -PDT	21:24-GMT	Position: 150° / 1403 m	Direction: West; Behavior: Speed slow • Traveling
Apr 14	Day 60 of 95			Daily Totals	whales 7 calves 1
Sighting Number	03	Quality: Fair		Total whales 2 — 1 calf at sighting	
Images: 1429-33		Beaufort: 0			
		10:16 -PDT	17:16-GMT	Position: 120° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
		10:23 -PDT	17:23-GMT	Position: 138° / 913 m	Direction: West; Behavior: Speed slow • Traveling
		10:27 -PDT	17:27-GMT	Position: 167° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	07	Quality: Fair		Total whales 2 — 0 calves at sighting	
		Beaufort: 0			
		13:31 -PDT	20:31-GMT	Position: 141° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
		13:38 -PDT	20:38-GMT	Position: 173° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	08	Quality: Fair		Total whales 2 — 0 calves at sighting	
		Beaufort: 0			
		14:14 -PDT	21:14-GMT	Position: 131° / 1020 m	Direction: West; Behavior: Speed slow • Traveling
		14:22 -PDT	21:22-GMT	Position: 196° / 574 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number	09	Quality: Fair		Total whales 1 — 0 calves at sighting	
		Beaufort: 1			
		14:22 -PDT	21:22-GMT	Position: 184° / 3088 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
		14:35 -PDT	21:35-GMT	Position: 212° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
Apr 15	Day 61 of 95			Daily Totals	whales 15 calves 7
Sighting Number	03	Quality: Poor		Total whales 2 — 1 calf at sighting	
Images: 1477-84		Beaufort: 1			
		09:27 -PDT	16:27-GMT	Position: 129° / 946 m	Direction: West; Behavior: Speed slow • Traveling
		09:32 -PDT	16:32-GMT	Position: 160° / 661 m	Direction: West; Behavior: Speed slow • Traveling boat went over them
		09:35 -PDT	16:35-GMT	Position: 194° / 600 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	10	Quality: Poor		Total whales 2 — 1 calf at sighting	
Images: 1528-1621		Beaufort: 1			
		11:18 -PDT	18:18-GMT	Position: 121° / 1106 m	Direction: West; Behavior: Speed slow • Traveling
		11:26 -PDT	18:26-GMT	Position: 144° / 600 m	Direction: West; Behavior: Speed slow • Traveling
		11:30 -PDT	18:30-GMT	Position: 171° / 455 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	11	Quality: Poor		Total whales 4 — 2 calves at sighting	
Images: 1623-78		Beaufort: 1			
		12:03 -PDT	19:03-GMT	Position: 123° / 778 m	Direction: West; Behavior: Speed slow • Traveling
		12:08 -PDT	19:08-GMT	Position: 146° / 661 m	Direction: West; Behavior: Speed slow • Traveling
		12:23 -PDT	19:23-GMT	Position: 281° / 946 m	Direction: West; Behavior: Speed slow • Traveling all 4 up
Sighting Number	12	Quality: Poor		Total whales 2 — 1 calf at sighting	
Images: 1680-81		Beaufort: 1			
		15:06 -PDT	22:06-GMT	Position: 167° / 600 m	Direction: West; Behavior: Speed slow • Traveling
		15:10 -PDT	22:10-GMT	Position: 191° / 508 m	Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 1683-1708	13	Quality: Poor Beaufort: 2	Total whales 2 — 1 calf at sighting
		15:16 -PDT 22:16-GMT	Position: 123° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		15:23 -PDT 22:23-GMT	Position: 157° / 600 m Direction: West; Behavior: Speed slow • Traveling
		15:27 -PDT 22:27-GMT	Position: 189° / 539 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1710=75	14	Quality: Poor Beaufort: 2	Total whales 2 — 1 calf at sighting
		16:04 -PDT 23:04-GMT	Position: 120° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		16:16 -PDT 23:16-GMT	Position: 146° / 600 m Direction: West; Behavior: Speed slow • Traveling head up almost the whole way across
		16:23 -PDT 23:23-GMT	Position: 184° / 508 m Direction: West; Behavior: Speed slow • Traveling • Bubble blast
Sighting Number Images: 1777-79	15	Quality: Poor Beaufort: 2	Total whales 1 — 0 calves at sighting
		16:38 -PDT 23:38-GMT	Position: 188° / 508 m Direction: West; Behavior: Speed slow • Traveling
Apr 18	Day 64 of 95		Daily Totals whales 9 calves 2
Sighting Number	02	Quality: Fair Beaufort: 0	Total whales 5 — 0 calves at sighting
		09:24 -PDT 16:24-GMT	Position: 139° / 2749 m Direction: West; Behavior: Speed slow • Traveling
		09:34 -PDT 16:34-GMT	Position: 152° / 1922 m Direction: West; Behavior: Speed slow • Traveling • Fluke
		09:42 -PDT 16:42-GMT	Position: 174° / 1483 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1872-1917	06	Quality: Fair Beaufort: 1	Total whales 2 — 1 calf at sighting
		13:38 -PDT 20:38-GMT	Position: 121° / 1403 m Direction: West; Behavior: Speed slow • Traveling
		13:45 -PDT 20:45-GMT	Position: 153° / 661 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1920-34	07	Quality: Fair Beaufort: 4	Total whales 2 — 1 calf at sighting
		15:58 -PDT 22:58-GMT	Position: 120° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		16:06 -PDT 23:06-GMT	Position: 154° / 600 m Direction: West; Behavior: Speed slow • Traveling
		16:11 -PDT 23:11-GMT	Position: 207° / 455 m Direction: West; Behavior: Speed slow • Traveling
Apr 19	Day 65 of 95		Daily Totals whales 8 calves 3
Sighting Number	01	Quality: Good Beaufort: 2	Total whales 2 — 1 calf at sighting
		08:46 -PDT 15:46-GMT	Position: 244° / 661 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 1936-94	02	Quality: Good Beaufort: 2	Total whales 4 — 2 calves at sighting
		08:47 -PDT 15:47-GMT	Position: 163° / 574 m Direction: West; Behavior: Speed slow • Traveling
		08:50 -PDT 15:50-GMT	Position: 184° / 574 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 2043-4	05	Quality: Fair Beaufort: 4	Total whales 2 — 0 calves at sighting
		10:39 -PDT 17:39-GMT	Position: 119° / 1483 m Direction: West; Behavior: Speed slow • Traveling
		10:47 -PDT 17:47-GMT	Position: 149° / 827 m Direction: West; Behavior: Speed slow • Traveling
Apr 20	Day 66 of 95		Daily Totals whales 9 calves 4
Sighting Number Images: 2048	02	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting
		09:39 -PDT 16:39-GMT	Position: 124° / 1106 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	09:50 -PDT	16:50-GMT	Position: 165° / 661 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 2091-2182	04	Quality: Fair Beaufort: 2	Total whales 4 — 2 calves at sighting	
	11:59 -PDT	18:59-GMT	Position: 115° / 1922 m	Direction: West; Behavior: Speed slow • Traveling
	12:09 -PDT	19:09-GMT	Position: 124° / 946 m	Direction: West; Behavior: Speed slow • Traveling
	12:14 -PDT	19:14-GMT	Position: 141° / 600 m	Direction: Circling; Behavior: Spyhop
	12:30 -PDT	19:30-GMT	Position: 271° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 2187-2224	05	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting	
	13:04 -PDT	20:04-GMT	Position: 137° / 913 m	Direction: West; Behavior: Speed slow • Traveling
	13:08 -PDT	20:08-GMT	Position: 158° / 629 m	Direction: West; Behavior: Speed slow • Traveling head up
Sighting Number	07	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	13:27 -PDT	20:27-GMT	Position: 215° / 528 m	Direction: West; Behavior: Speed slow • Traveling
Apr 21	Day 67 of 95			Daily Totals whales 4 calves 0
Sighting Number Images: 2288-97	03	Quality: Fair Beaufort: 0	Total whales 1 — 0 calves at sighting	
	10:00 -PDT	17:00-GMT	Position: 126° / 946 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	10:09 -PDT	17:09-GMT	Position: 204° / 489 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number Images: 2299-2311	04	Quality: Fair Beaufort: 1	Total whales 3 — 0 calves at sighting	
	11:33 -PDT	18:33-GMT	Position: 119° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
	11:40 -PDT	18:40-GMT	Position: 145° / 778 m	Direction: West; Behavior: Speed slow • Traveling
Apr 22	Day 68 of 95			Daily Totals whales 14 calves 6
Sighting Number Images: 2327-80	02	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting	
	10:58 -PDT	17:58-GMT	Position: 139° / 629 m	Direction: West; Behavior: Speed slow • Traveling
	11:02 -PDT	18:02-GMT	Position: 164° / 550 m	Direction: West; Behavior: Speed slow • Traveling
	11:04 -PDT	18:04-GMT	Position: 184° / 508 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 2382-2612	03	Quality: Fair Beaufort: 2	Total whales 6 — 3 calves at sighting	
	11:14 -PDT	18:14-GMT	Position: 121° / 1106 m	Direction: West; Behavior: Speed slow • Traveling separated 2+4
	11:22 -PDT	18:22-GMT	Position: 141° / 539 m	Direction: West; Behavior: Speed slow • Traveling • Breach • Rolling head up, calf 1 breach
	11:30 -PDT	18:30-GMT	Position: 166° / 508 m	Direction: West; Behavior: Speed slow • Traveling • Rolling playing around and moving slow
	11:37 -PDT	18:37-GMT	Position: 189° / 471 m	Direction: West; Behavior: Speed slow • Traveling boat went over them
Sighting Number	04	Quality: Fair Beaufort: 2	Total whales 1 — 0 calves at sighting	
	11:45 -PDT	18:45-GMT	Position: 156° / 827 m	Direction: West; Behavior: Speed slow • Traveling
	11:48 -PDT	18:48-GMT	Position: 175° / 735 m	Direction: West; Behavior: Speed slow • Traveling snorkeling
	11:52 -PDT	18:52-GMT	Position: 200° / 883 m	Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 2615-40	05	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		12:43 -PDT 19:43-GMT	Position: 111° / 2749 m Direction: West; Behavior: Speed slow • Traveling
		12:46 -PDT 19:46-GMT	Position: 114° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		13:06 -PDT 20:06-GMT	Position: 168° / 600 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 2642072	06	Quality: Fair	Total whales 1 — 0 calves at sighting
		Beaufort: 2	
		13:48 -PDT 20:48-GMT	Position: 126° / 913 m Direction: West; Behavior: Speed slow • Traveling
		13:53 -PDT 20:53-GMT	Position: 156° / 629 m Direction: West; Behavior: Speed slow • Traveling head up
		14:00 -PDT 21:00-GMT	Position: 194° / 489 m Direction: West; Behavior: Speed slow • Traveling head up
Sighting Number Images: 2674-98	08	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 1	
		15:33 -PDT 22:33-GMT	Position: 139° / 1674 m Direction: West; Behavior: Speed slow • Traveling
		15:37 -PDT 22:37-GMT	Position: 165° / 883 m Direction: West; Behavior: Speed slow • Traveling
Apr 23	Day 69 of 95	Daily Totals whales 6 calves 3	
Sighting Number Images: 2708-42	01	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		10:35 -PDT 17:35-GMT	Position: 138° / 913 m Direction: West; Behavior: Speed slow • Traveling really big whale, calf head over mom, just off kelp
		10:39 -PDT 17:39-GMT	Position: 163° / 550 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number	06	Quality: Poor	Total whales 4 — 2 calves at sighting
		Beaufort: 3	
		16:09 -PDT 23:09-GMT	Position: 134° / 883 m Direction: West; Behavior: Speed slow • Traveling
		16:19 -PDT 23:19-GMT	Position: 179° / 574 m Direction: West; Behavior: Speed slow • Traveling
Apr 25	Day 71 of 95	Daily Totals whales 10 calves 5	
Sighting Number Images: 2764-2905	01	Quality: Poor	Total whales 4 — 2 calves at sighting
		Beaufort: 1	
		09:54 -PDT 16:54-GMT	Position: 104° / 1674 m Direction: West; Behavior: Rolling mc rolling, head up in kelp, slowly moving out of kelp
		10:07 -PDT 17:07-GMT	Position: 114° / 1674 m Direction: West; Behavior: Speed slow • Traveling condor approached and they went back into the kelp
		10:14 -PDT 17:14-GMT	Position: 114° / 1106 m Direction: West; Behavior: Speed slow • Traveling head up
		10:20 -PDT 17:20-GMT	Position: 136° / 600 m Direction: West; Behavior: Speed slow • Traveling
		10:26 -PDT 17:26-GMT	Position: 169° / 280 m Direction: West; Behavior: Speed slow • Traveling
		10:31 -PDT 17:31-GMT	Position: 239° / 356 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 2918-83	04	Quality: Fair	Total whales 4 — 2 calves at sighting
		Beaufort: 1	
		15:15 -PDT 22:15-GMT	Position: 122° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		15:21 -PDT 22:21-GMT	Position: 147° / 661 m Direction: West; Behavior: Speed slow • Traveling head way up
		15:26 -PDT 22:26-GMT	Position: 179° / 528 m Direction: West; Behavior: Speed slow • Traveling • Spyhop • Rolling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 2988-3051	05	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		16:37 -PDT 23:37-GMT	Position: 119° / 1208 m Direction: West; Behavior: Speed slow • Traveling head up
		16:44 -PDT 23:44-GMT	Position: 133° / 778 m Direction: West; Behavior: Speed slow • Traveling
16:51 -PDT 23:51-GMT		Position: 174° / 600 m Direction: West; Behavior: Speed slow • Traveling head up, throwing head back	
<hr/>			
Apr 26	Day 72 of 95	Daily Totals whales 7 calves 2	
Sighting Number	01	Quality: Poor	Total whales 3 — 0 calves at sighting
		Beaufort: 1	
		09:35 -PDT 16:35-GMT	Position: 164° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Fluke no evidence of calves, no mc behavior, just late group of general migration
09:40 -PDT 16:40-GMT		Position: 188° / 1331 m Direction: West; Behavior: Speed slow • Traveling • Fluke	
Sighting Number Images: 3053-3104	04	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		11:10 -PDT 18:10-GMT	Position: 120° / 1106 m Direction: West; Behavior: Speed slow • Traveling
11:18 -PDT 18:18-GMT		Position: 149° / 600 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number Images: 3106-41	05	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		11:38 -PDT 18:38-GMT	Position: 130° / 913 m Direction: West; Behavior: Speed slow • Traveling
		11:41 -PDT 18:41-GMT	Position: 156° / 696 m Direction: West; Behavior: Speed slow • Traveling
11:46 -PDT 18:46-GMT		Position: 217° / 661 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
Apr 27	Day 73 of 95	Daily Totals whales 4 calves 2	
Sighting Number	04	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		10:48 -PDT 17:48-GMT	Position: 130° / 1331 m Direction: West; Behavior: Speed slow • Traveling
		10:53 -PDT 17:53-GMT	Position: 154° / 735 m Direction: West; Behavior: Speed slow • Traveling
11:02 -PDT 18:02-GMT		Position: 246° / 827 m Direction: West; Behavior: Speed slow • Traveling	
Sighting Number Images: 3171-92	05	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		14:36 -PDT 21:36-GMT	Position: 119° / 1403 m Direction: West; Behavior: Speed slow • Traveling
14:47 -PDT 21:47-GMT		Position: 142° / 600 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
Apr 28	Day 74 of 95	Daily Totals whales 2 calves 1	
Sighting Number	05	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		11:23 -PDT 18:23-GMT	Position: 103° / 2749 m Direction: West; Behavior: Speed slow • Traveling
		11:38 -PDT 18:38-GMT	Position: 113° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		11:44 -PDT 18:44-GMT	Position: 121° / 1403 m Direction: West; Behavior: Speed slow • Traveling
11:52 -PDT 18:52-GMT		Position: 164° / 600 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
Apr 30	Day 76 of 95	Daily Totals whales 2 calves 1	
Sighting Number Images: 333-58	04	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		13:54 -PDT 20:54-GMT	Position: 104° / 3088 m Direction: West; Behavior: Speed slow • Traveling
		14:10 -PDT 21:10-GMT	Position: 117° / 1922 m Direction: West; Behavior: Speed slow • Traveling
14:20 -PDT 21:20-GMT		Position: 152° / 600 m Direction: West; Behavior: Speed slow • Traveling	

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

		14:23 -PDT	21:23-GMT	Position: 185° / 539 m	Direction: West; Behavior: Speed slow • Traveling
May 02	Day 78 of 95			Daily Totals	whales 8 calves 4
Sighting Number Images: 3369-3541	02	Quality: Fair Beaufort: 1	Total whales 6 — 3 calves at sighting		
		10:41 -PDT	17:41-GMT	Position: 103° / 3088 m	Direction: West; Behavior: Speed slow • Traveling
		10:55 -PDT	17:55-GMT	Position: 109° / 2260 m	Direction: West; Behavior: Speed slow • Traveling
		11:11 -PDT	18:11-GMT	Position: 127° / 1020 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 3577-3659	07	Quality: Poor Beaufort: 3	Total whales 2 — 1 calf at sighting		
		14:33 -PDT	21:33-GMT	Position: 107° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
		14:49 -PDT	21:49-GMT	Position: 115° / 2260 m	Direction: West; Behavior: Speed slow • Traveling
		14:54 -PDT	21:54-GMT	Position: 121° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
May 03	Day 79 of 95			Daily Totals	whales 5 calves 2
Sighting Number	01	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting		
		11:09 -PDT	18:09-GMT	Position: 152° / 913 m	Direction: West; Behavior: Speed slow • Traveling snorkeling
		11:14 -PDT	18:14-GMT	Position: 194° / 661 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number	02	Quality: Fair Beaufort: 3	Total whales 1 — 0 calves at sighting		
		13:02 -PDT	20:02-GMT	Position: 197° / 778 m	Direction: West; Behavior: Speed slow • Traveling
		13:08 -PDT	20:08-GMT	Position: 247° / 913 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
Sighting Number Images: 3677-3710	03	Quality: Fair Beaufort: 3	Total whales 2 — 1 calf at sighting		
		15:37 -PDT	22:37-GMT	Position: 146° / 661 m	Direction: West; Behavior: Speed slow • Traveling blow not easy to see
		15:39 -PDT	22:39-GMT	Position: 176° / 600 m	Direction: West; Behavior: Speed slow • Traveling
		15:46 -PDT	22:46-GMT	Position: 244° / 528 m	Direction: West; Behavior: Speed slow • Traveling
May 04	Day 80 of 95			Daily Totals	whales 10 calves 5
Sighting Number Images: 3712-3817	01	Quality: Fair Beaufort: 2	Total whales 6 — 3 calves at sighting		
		09:00 -PDT	16:00-GMT	Position: 119° / 1331 m	Direction: West; Behavior: Speed slow • Traveling
		09:11 -PDT	16:11-GMT	Position: 149° / 629 m	Direction: West; Behavior: Speed slow • Traveling
		09:16 -PDT	16:16-GMT	Position: 176° / 574 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 3873-3911	03	Quality: Fair Beaufort: 1	Total whales 4 — 2 calves at sighting		
		10:00 -PDT	17:00-GMT	Position: 120° / 1403 m	Direction: West; Behavior: Speed slow • Traveling boat got very close, almost on top
		10:08 -PDT	17:08-GMT	Position: 146° / 678 m	Direction: West; Behavior: Speed slow • Traveling
		10:14 -PDT	17:14-GMT	Position: 200° / 528 m	Direction: West; Behavior: Speed slow • Traveling another boat went over the top of them
May 05	Day 81 of 95			Daily Totals	whales 6 calves 3
Sighting Number Images: 3984-4007	03	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting		
		10:46 -PDT	17:46-GMT	Position: 103° / 2749 m	Direction: West; Behavior: Speed slow • Traveling image numbers include towing and towed vessels

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

	10:51 -PDT	17:51-GMT	Position: 107° / 2749 m	Direction: West; Behavior: Speed slow • Traveling
	11:04 -PDT	18:04-GMT	Position: 123° / 1483 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 4009-91	04	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting	
	12:58 -PDT	19:58-GMT	Position: 116° / 1483 m	Direction: West; Behavior: Speed slow • Traveling image numbers include sighting numbers 4 & 5
	13:13 -PDT	20:13-GMT	Position: 153° / 550 m	Direction: West; Behavior: Speed slow • Traveling at kelp edge
Sighting Number	05	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting	
	13:14 -PDT	20:14-GMT	Position: 158° / 600 m	Direction: West; Behavior: Speed slow • Traveling
	13:20 -PDT	20:20-GMT	Position: 174° / 574 m	Direction: West; Behavior: Speed slow • Traveling
May 06	Day 82 of 95			Daily Totals whales 8 calves 4
Sighting Number Images: 4165-8	02	Quality: Fair Beaufort: 2	Total whales 2 — 1 calf at sighting	
	09:21 -PDT	16:21-GMT	Position: 109° / 2260 m	Direction: West; Behavior: Speed slow • Traveling
	09:28 -PDT	16:28-GMT	Position: 119° / 1483 m	Direction: West; Behavior: Speed slow • Traveling along kelp
	09:58 -PDT	16:58-GMT	Position: 161° / 574 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 4170-6	04	Quality: Fair Beaufort: 0	Total whales 2 — 1 calf at sighting	
	12:25 -PDT	19:25-GMT	Position: / m	Direction: West; Behavior: Speed slow • Traveling
	12:30 -PDT	19:30-GMT	Position: 127° / 1403 m	Direction: West; Behavior: Speed slow • Traveling • Fluke
	12:41 -PDT	19:41-GMT	Position: 196° / 696 m	Direction: West; Behavior: Speed slow • Traveling • Fluke heading into Dsp
	12:49 -PDT	19:49-GMT	Position: 145° / 827 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 4178-4240	06	Quality: Fair Beaufort: 0	Total whales 2 — 1 calf at sighting	
	14:48 -PDT	21:48-GMT	Position: 119° / 1331 m	Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 4246-4314	07	Quality: Fair Beaufort: 0	Total whales 2 — 1 calf at sighting	
	15:31 -PDT	22:31-GMT	Position: 129° / 1483 m	Direction: West; Behavior: Speed slow • Traveling Maybe injured tail-stock calf
	15:46 -PDT	22:46-GMT	Position: 160° / 913 m	Direction: West; Behavior: Speed slow • Traveling Stayed off kelp
	16:20 -PDT	23:20-GMT	Position: 272° / 1483 m	Direction: West; Behavior: Speed slow • Traveling

May 07	Day 83 of 95			Daily Totals whales 10 calves 5
Sighting Number Images: 4318-73	01	Quality: Fair Beaufort: 1	Total whales 4 — 2 calves at sighting	
	09:00 -PDT	16:00-GMT	Position: 126° / 1674 m	Direction: West; Behavior: Speed slow • Traveling
	09:05 -PDT	16:05-GMT	Position: 120° / 1208 m	Direction: West; Behavior: Speed slow • Traveling next to kelp
	09:09 -PDT	16:09-GMT	Position: 120° / 735 m	Direction: West; Behavior: Speed slow • Traveling
	09:19 -PDT	16:19-GMT	Position: 147° / 347 m	Direction: West; Behavior: Speed slow • Traveling • Spyhop in kelp

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 4381-92	02	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 1	
		10:02 -PDT 17:02-GMT	Position: 157° / 1483 m Direction: West; Behavior: Speed slow • Traveling
		10:07 -PDT 17:07-GMT	Position: 172° / 1020 m Direction: West; Behavior: Speed slow • Traveling
		10:18 -PDT 17:18-GMT	Position: 254° / 1106 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 4394-4402	04	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 1	
		12:28 -PDT 19:28-GMT	Position: 165° / 735 m Direction: West; Behavior: Speed slow • Traveling Off kelp — images of whales in front of not-visible platform
Sighting Number Images: 4405-28	07	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 1	
		14:05 -PDT 21:05-GMT	Position: 118° / 1106 m Direction: West; Behavior: Speed slow • Traveling
		14:11 -PDT 21:11-GMT	Position: 159° / 600 m Direction: West; Behavior: Speed slow • Traveling
May 10	Day 86 of 95	Daily Totals whales 6 calves 3	
Sighting Number Images: 4528-4643	01	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 4	
		09:31 -PDT 16:31-GMT	Position: 104° / 2260 m Direction: West; Behavior: Speed slow • Traveling
		09:45 -PDT 16:45-GMT	Position: 116° / 1483 m Direction: West; Behavior: Speed slow • Traveling • Spyhop inside kelp edge
		09:53 -PDT 16:53-GMT	Position: 131° / 735 m Direction: West; Behavior: Speed slow • Traveling
		10:01 -PDT 17:01-GMT	Position: 149° / 489 m Direction: West; Behavior: Speed slow • Traveling nursing - Heads up
Sighting Number Images: 4653-79	02	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		12:11 -PDT 19:11-GMT	Position: / m Direction: West; Behavior: Speed slow • Traveling along kelp
		12:23 -PDT 19:23-GMT	Position: 115° / 1674 m Direction: West; Behavior: Speed slow • Traveling
		12:31 -PDT 19:31-GMT	Position: 130° / 696 m Direction: West; Behavior: Speed slow • Traveling
Sighting Number Images: 4688-4712	03	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		14:58 -PDT 21:58-GMT	Position: 137° / 1106 m Direction: West; Behavior: Speed slow • Traveling Off kelp
		15:03 -PDT 22:03-GMT	Position: 159° / 946 m Direction: West; Behavior: Speed slow • Traveling
		15:08 -PDT 22:08-GMT	Position: 203° / 827 m Direction: West; Behavior: Speed slow • Traveling
May 11	Day 87 of 95	Daily Totals whales 6 calves 3	
Sighting Number Images: 4718-48	02	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		12:25 -PDT 19:25-GMT	Position: 152° / 574 m Direction: West; Behavior: Speed slow • Traveling
		12:30 -PDT 19:30-GMT	Position: 179° / 528 m Direction: West; Behavior: Speed slow • Traveling
		12:38 -PDT 19:38-GMT	Position: 272° / 778 m Direction: West; Behavior: Speed slow • Traveling straight on by
Sighting Number Images: 4750-5	03	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		13:08 -PDT 20:08-GMT	Position: 168° / 778 m Direction: West; Behavior: Speed slow • Traveling
		13:14 -PDT 20:14-GMT	Position: 216° / 574 m Direction: West; Behavior: Speed slow • Traveling

2018 GRAY WHALE (northbound) Sighting + Tracking, On-Effort

Sighting Number Images: 4757-4801	05	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 2	
		16:35 -PDT 23:35-GMT	Position: 101° / 2749 m Direction: West; Behavior: Speed slow • Traveling
		16:48 -PDT 23:48-GMT	Position: 111° / 2260 m Direction: West; Behavior: Speed slow • Traveling
17:01 -PDT 0:01; 5/12/2018-GMT		Position: 131° / 913 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
May 13	Day 89 of 95	Daily Totals whales 4 calves 2	
Sighting Number Images: 4887-4903	02	Quality: Good	Total whales 2 — 1 calf at sighting
		Beaufort: 1	
		13:14 -PDT 20:14-GMT	Position: 134° / 827 m Direction: West; Behavior: Speed slow • Traveling very low profile
13:31 -PDT 20:31-GMT		Position: 273° / 946 m Direction: West; Behavior: Speed slow • Traveling Fast	
<hr/>			
Sighting Number Images: 4950-82	03	Quality: Good	Total whales 2 — 1 calf at sighting
		Beaufort: 4	
		16:54 -PDT 23:54-GMT	Position: 113° / 2749 m Direction: West; Behavior: Speed slow • Traveling Swung wide around kelp finger @ 105°
		17:05 -PDT 0:05; 5/14/2018-GMT	Position: 128° / 1922 m Direction: West; Behavior: Speed slow • Traveling along kelp, but off a bit
17:11 -PDT 0:11; 5/14/2018-GMT		Position: 147° / 1208 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
May 14	Day 90 of 95	Daily Totals whales 2 calves 1	
Sighting Number Images: 4983-94	01	Quality: Poor	Total whales 2 — 1 calf at sighting
		Beaufort: 4	
		12:37 -PDT 19:37-GMT	Position: 146° / 883 m Direction: West; Behavior: Speed slow • Traveling
		12:40 -PDT 19:40-GMT	Position: 167° / 735 m Direction: West; Behavior: Speed slow • Traveling
12:51 -PDT 19:51-GMT		Position: 269° / 1106 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
May 18	Day 94 of 95	Daily Totals whales 2 calves 1	
Sighting Number Images: 5092-5208	07	Quality: Fair	Total whales 2 — 1 calf at sighting
		Beaufort: 3	
		15:16 -PDT 22:16-GMT	Position: 104° / 1208 m Direction: West; Behavior: Speed slow • Traveling
		15:23 -PDT 22:23-GMT	Position: 123° / 827 m Direction: West; Behavior: Speed slow • Traveling next to kelp
		15:29 -PDT 22:29-GMT	Position: 145° / 347 m Direction: West; Behavior: Speed slow • Traveling really close
15:41 -PDT 22:41-GMT		Position: 279° / 696 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
May 19	Day 95 of 95	Daily Totals whales 10 calves 5	
Sighting Number Images: 5383-5499	07	Quality: Fair	Total whales 6 — 3 calves at sighting
		Beaufort: 1	
		16:05 -PDT 23:05-GMT	Position: 115° / 1922 m Direction: West; Behavior: Speed slow • Traveling
		16:09 -PDT 23:09-GMT	Position: 120° / 1403 m Direction: West; Behavior: Speed slow • Traveling
16:14 -PDT 23:14-GMT		Position: 124° / 946 m Direction: West; Behavior: Speed slow • Traveling	
<hr/>			
Sighting Number	08	Quality: Fair	Total whales 4 — 2 calves at sighting
		Beaufort: 1	
16:42 -PDT 23:42-GMT		Position: 215° / 735 m Direction: West; Behavior: Speed slow • Traveling	