



2018 All Sighting Numbers, On-Effort

All eyes are scanning, assisted by our binoculars and using a spotting scope for details. A Supervisor (Research Assistant or the Project Coordinator) enters sighting data, weather and sea conditions, and shift information on the Master Datasheet, while Counters call out observed positions and species of sightings.



Sighting data are entered for all cetaceans (with a distinction between southbound gray whales and northbound gray whales). We also sight sea otters, harbor seals, and rarer pinnipeds, including northern fur seals and northern elephant seals. Sea lions are ubiquitous. We don't enter sea lions unless one comes onshore in need of a rescue, at which time, we call in to CIMWI.

Because gray whales (southbound and northbound) are migrating past our position, we are able to tally unique individuals. Sightings of all other animals document the numbers of animals present at that sighting only. We may observe the same animal at different times during a day and again on subsequent days. At each animal sighting we enter the time and a position-reading with our binoculars: compass (bearing) and reticle scale (distance). We note the direction of travel and track the subsequent surfacings in the same manner. Later, in our database, the magnetic bearing is converted to true and the reticles become only slightly more familiar meters.

We identify species, determine the number of animals in the group and number of calves. (Actually, otters and pinnipeds have "pups," but they are labeled calves on our datasheets.) At each position we also record behaviors.

A key part of our observation process is tracking: recording the surfacing of animals as they approach and move past Counter Point. At each surfacing we learn more about the whales that enables us to establish identity, direction of travel, behaviors, group size, and the presence of a calf. As we track animals, we can enter comments at each position to amplify data codes.

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

2018 All Sighting Numbers, Raw

Feb 14 Day 1 of 95

Quality Fair	Contrast Fair	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:03 -PST SW	17:03-GMT gray whale (Er) (southbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:04 -PST SD	17:04-GMT bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	03	09:24 -PST SP	17:24-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	04	09:30 -PST SP	17:30-GMT Images: 5880-5 harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	05	09:48 -PST SP	17:48-GMT unidentified pinniped	Totals not indicated
Quality Good	Contrast Fair	CCvr 60%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	06	09:57 -PST SW	17:57-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 60%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	07	10:15 -PST SW	18:15-GMT fin whale (Bp)	Totals not indicated
Quality Good	Contrast Fair	CCvr 60%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	08	10:19 -PST SP	18:19-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Good	Contrast Fair	CCvr 60%	Bft 0	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	09	10:24 -PST SP	18:24-GMT harbor seal (Pv)	Total seals 2 — 0 pups at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	10	11:11 -PST S	19:11-GMT Images: 5887-92 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	11	11:26 -PST S	19:26-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	12	12:06 -PST S	20:06-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	13	12:07 -PST S	20:07-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	14	12:35 -PST S	20:35-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	15	12:46 -PST S	20:46-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-0	Horiz - Vis Fuzzy / 3	16	12:49 -PST S	20:49-GMT Images: 5894-5902 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-0-2	Horiz - Vis Fuzzy / 3	17	13:19 -PST S	21:19-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 2	Bft Mix 0-1-2-3	Horiz - Vis Fuzzy / 3	18	14:33 -PST SW	22:33-GMT fin whale (Bp)	Totals not indicated
Quality Good	Contrast Good	CCvr 0%	Bft 2	Bft Mix 0-1-2-3	Horiz - Vis Fuzzy / 3	19	15:14 -PST SO	23:14-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	20	16:35 -PST SD	0:35; 2/15/2018-GMT Images: 5907-14 bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	End Day	17:00 -PST T	1:00; 2/15/2018-GMT Effort Hours 8:00	

Feb 15 Day 2 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	01	09:10 -PST SP	17:10-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	02	09:45 -PST SO	17:45-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis			
Fair	Fair	0%	2	0-1-2	Fuzzy / 3	03	10:07 -PST SP	18:07-GMT harbor seal (Pv) Total seals 1 — 0 pups at sighting
Fair	Fair	0%	2	0-1-2	Fuzzy / 3	04	10:19 -PST SW	18:19-GMT gray whale (Er) (southbound) Total whales 2 — 0 calves at sighting
Good	Good	0%	1	0-1-2	Sharp / 3	05	10:20 -PST SW	18:20-GMT gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Good	Good	0%	1	0-1-2	Sharp / 3	06	11:13 -PST SW	19:13-GMT fin whale (Bp) Totals not indicated
Good	Good	0%	1	0-1-2	Sharp / 3	07	12:05 -PST SW	20:05-GMT gray whale (Er) (southbound) Total whales 3 — 0 calves at sighting
Good	Good	0%	1	0-1-2	Sharp / 3	08	12:39 -PST S	20:39-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Good	Good	0%	3	1-2-3	Sharp / 3	09	12:45 -PST S	20:45-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	1-2-3	Fuzzy / 3	End Day	17:00 -PST T	1:00; 2/16/2018-GMT Effort Hours 7:58

Feb 16 Day 3 of 95

Fair	Fair	20%	0	0-1	Fuzzy / 3	01	09:02 -PST SD	17:02-GMT common dolphin, species not determined ≈Total dolphins 1500 — calves not determined
Fair	Fair	20%	0	0-1	Fuzzy / 3	02	09:06 -PST SW	17:06-GMT fin whale (Bp) Totals not indicated
Fair	Fair	20%	0	0-1	Fuzzy / 3	03	09:13 -PST SW	17:13-GMT gray whale (Er) (southbound) Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	04	09:19 -PST S	17:19-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	05	09:25 -PST SO	17:25-GMT southern sea otter (EI) Total otters 1 — 0 Pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	06	09:33 -PST SP	17:33-GMT harbor seal (Pv) Total seals 1 — 0 pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	07	09:56 -PST SP	17:56-GMT harbor seal (Pv) Total seals 4 — 0 pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	08	10:02 -PST SW	18:02-GMT unidentified large whale Total whales 3 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	09	10:03 -PST S	18:03-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	10	10:13 -PST SW	18:13-GMT gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	11	10:18 -PST V	18:18-GMT Fish Commercial 26072
Fair	Fair	20%	0	0-1	Fuzzy / 3	12	10:41 -PST S	18:41-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	13	11:02 -PST S	19:02-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	14	11:31 -PST SW	19:31-GMT gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	15	11:48 -PST SW	19:48-GMT gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	16	11:50 -PST SW	19:50-GMT gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Good	Good	20%	1	0-1	Fuzzy / 3	17	12:40 -PST S	20:40-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Good	Good	20%	1	0-1-2	Fuzzy / 3	18	13:28 -PST S	21:28-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Good	Good	20%	1	0-1-2	Fuzzy / 3	19	13:52 -PST SW	21:52-GMT Images: 5934-9 gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	1	0-1-2	Fuzzy / 3	20	14:20 -PST S	22:20-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	1	0-1-2	Fuzzy / 3	21	14:57 -PST SW	22:57-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	1	0-1-2	Fuzzy / 3	22	15:33 -PST SW	23:33-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	1	0-1-2	Fuzzy / 3	23	15:52 -PST SD	23:52-GMT bottlenose dolphin (Tt)	Total dolphins 7 — 2 calves at sighting
Fair	Fair	20%	1	0-1-2	Fuzzy / 3	End Day	17:00 -PST T	1:00; 2/17/2018-GMT Effort Hours 8:00	

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Fair	Fair	0%	1	0-1	Fuzzy / 3	01	09:07 -PST SP	17:07-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	02	09:10 -PST SP	17:10-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	03	09:20 -PST SP	17:20-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	04	09:26 -PST SW	17:26-GMT fin whale (Bp)	Totals not indicated
Fair	Fair	0%	1	0-1	Fuzzy / 3	05	09:30 -PST S	17:30-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	06	09:38 -PST SD	17:38-GMT bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	07	09:42 -PST S	17:42-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	08	09:43 -PST V	17:43-GMT Fish Commercial Urchin Diving 26072	
Fair	Fair	0%	1	0-1	Fuzzy / 3	09	09:49 -PST V	17:49-GMT Fish Commercial Lobster/Crab L24020	
Fair	Fair	0%	1	0-1	Fuzzy / 3	10	09:56 -PST S	17:56-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	11	10:40 -PST S	18:40-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	12	11:11 -PST SD	19:11-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	13	11:29 -PST SW	19:29-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Good	Good	20%	1	0-1	Fuzzy / 3	14	11:38 -PST SD	19:38-GMT common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Good	Good	20%	1	0-1	Fuzzy / 3	15	12:33 -PST SW	20:33-GMT gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Good	Good	20%	1	0-1	Fuzzy / 3	16	12:45 -PST S	20:45-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Good	Contrast Good	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	17	13:16 -PST V	21:16-GMT Private Sportfishing	
Quality Good	Contrast Good	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	18	13:55 -PST V	21:55-GMT Private Sportfishing	
Quality Good	Contrast Good	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	19	13:56 -PST S	21:56-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	20	14:01 -PST SW	22:01-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	21	14:30 -PST V	22:30-GMT Private Cruising	
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	22	14:38 -PST SP	22:38-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	23	14:40 -PST SW	22:40-GMT gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	24	15:59 -PST V	23:59-GMT Private Sportfishing	
Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	25	16:13 -PST SW	0:13; 2/18/2018-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	26	16:43 -PST V	0:43; 2/18/2018-GMT Fish Commercial Lobster/Crab L72681	
Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	End Day	17:00 -PST T	1:00; 2/18/2018-GMT Effort Hours 8:00	

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Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0	Horiz - Vis Fuzzy / 3	01	09:10 -PST V	17:10-GMT Fish Commercial Lobster/Crab L57227	
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	02	09:15 -PST S	17:15-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	03	09:33 -PST SW	17:33-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	04	09:49 -PST SW	17:49-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	05	10:37 -PST SP	18:37-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	06	11:13 -PST SW	19:13-GMT fin whale (Bp)	Totals not indicated
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	07	11:38 -PST SD	19:38-GMT common dolphin, species not determined	≈Total dolphins 500 — calves not determined
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	08	11:44 -PST V	19:44-GMT Fish Commercial Lobster/Crab L26871	
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	09	12:31 -PST SP	20:31-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	10	12:36 -PST SD	20:36-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	11	12:48 -PST SW	20:48-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	12	12:54 -PST V	20:54-GMT Images: 5945-8 Private Cruising RHIB	
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	13	13:04 -PST V	21:04-GMT Private Sportfishing	

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	14	13:05 -PST S	21:05-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	15	13:06 -PST SW	21:06-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	16	13:12 -PST SW	21:12-GMT gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	17	13:22 -PST SW	21:22-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	18	13:27 -PST SD	21:27-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	19	14:52 -PST SW	22:52-GMT gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	20	15:26 -PST SD	23:26-GMT bottlenose dolphin (Tt)	Total dolphins 5 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	21	15:44 -PST S	23:44-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	22	15:53 -PST SD	23:53-GMT bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 5	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	End Day	16:06 -PST T	0:06; 2/19/2018-GMT Effort Hours 7:06	

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Quality Poor	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Sharp / 3	01	09:03 -PST SW	17:03-GMT fin whale (Bp)	Totals not indicated
Quality Poor	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Sharp / 3	02	09:22 -PST SW	17:22-GMT gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Sharp / 3	03	10:00 -PST SD	18:00-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 20%	Bft 5	Bft Mix 4-5	Horiz - Vis Sharp / 3	End Day	10:23 -PST T	18:23-GMT Effort Hours 1:23	

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Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	01	09:04 -PST S	17:04-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	02	09:12 -PST S	17:12-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	03	09:24 -PST SW	17:24-GMT fin whale (Bp)	Totals not indicated
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	04	09:30 -PST SO	17:30-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	05	09:33 -PST SD	17:33-GMT bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	06	09:42 -PST S	17:42-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	07	09:43 -PST SP	17:43-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	08	09:49 -PST SD	17:49-GMT common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Quality Fair	Contrast Fair	CCvr 0%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	09	10:31 -PST SW	18:31-GMT humpback whale (Mn)	Total whales 2 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	10	11:27 -PST S	19:27-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	11	11:43 -PST SD	19:43-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 3	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	12	11:59 -PST SW	19:59-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 3	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	13	12:01 -PST SD	20:01-GMT Pacific white-sided dolphin (Lo)	≈Total dolphins 20 — nd calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	14	13:36 -PST SW	21:36-GMT humpback whale (Mn)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	15	15:14 -PST SW	23:14-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 0-1-2-3	Horiz - Vis Sharp / 3	16	15:29 -PST SW	23:29-GMT gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 1-2-3	Horiz - Vis Sharp / 3	17	15:43 -PST SD	23:43-GMT Images: 5979-6150 bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Sharp / 3	End Day	17:00 -PST T	1:00; 2/21/2018-GMT Effort Hours 8:00	

Feb 21 Day 8 of 95

Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:18 -PST SO	17:18-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:19 -PST SP	17:19-GMT harbor seal (Pv)	Total seals 2 — 0 pups at sighting
Quality Poor	Contrast Fair	CCvr 60%	Bft 4	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	03	11:09 -PST S	19:09-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 60%	Bft 4	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	04	11:39 -PST SW	19:39-GMT unidentified large whale	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 60%	Bft 5	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	End Day	11:55 -PST T	19:55-GMT Effort Hours 2:55	

Feb 22 Day 9 of 95

Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:20 -PST SO	17:20-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:35 -PST S	17:35-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	10:18 -PST SW	18:18-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	10:44 -PST SD	18:44-GMT Images: 6156-93 bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	05	11:22 -PST SD	19:22-GMT Images: 6195-227 bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	06	11:29 -PST SD	19:29-GMT bottlenose dolphin (Tt)	Total dolphins 5 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	07	12:05 -PST SP	20:05-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 5	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	End Day	12:19 -PST T	20:19-GMT Effort Hours 3:19	

Feb 23 Day 10 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	01	10:26 -PST SD	18:26-GMT common dolphin, species not determined	≈Total dolphins 150 — calves not determined
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Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	Time	GMT	
Fair	Fair	0%	5	4-5	Fuzzy / 3	T	10:33 -PST	18:33-GMT	Effort Hours 1:33
Feb 24 Day 11 of 95									
Fair	Poor	0%	0	0-1	Fuzzy / 3	01	09:05 -PST	17:05-GMT	SO southern sea otter (EI) Total otters 1 — 0 Pups at sighting
Fair	Poor	0%	0	0-1	Fuzzy / 3	02	09:06 -PST	17:06-GMT	SP harbor seal (Pv) Total seals 3 — 0 pups at sighting
Fair	Poor	0%	0	0-1	Fuzzy / 3	03	09:44 -PST	17:44-GMT	SP harbor seal (Pv) Total seals 1 — 0 pups at sighting
Fair	Poor	0%	0	0-1	Fuzzy / 3	04	09:51 -PST	17:51-GMT	S gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Poor	0%	0	0-1	Fuzzy / 3	05	09:53 -PST	17:53-GMT	SP harbor seal (Pv) Total seals 7 — 0 pups at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	06	10:32 -PST	18:32-GMT	SD bottlenose dolphin (Tt) Total dolphins 2 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	07	10:37 -PST	18:37-GMT	S gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	08	11:01 -PST	19:01-GMT	SD bottlenose dolphin (Tt) Total dolphins 2 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	09	11:20 -PST	19:20-GMT	SO southern sea otter (EI) Total otters 1 — 0 Pups at sighting
Fair	Fair	0%	0	0-1-2	Fuzzy / 3	10	11:52 -PST	19:52-GMT	SW gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1-2	Fuzzy / 3	11	11:57 -PST	19:57-GMT	S gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	12	12:11 -PST	20:11-GMT	SD bottlenose dolphin (Tt) Total dolphins 1 — 0 calves at sighting
Fair	Fair	0%	2	0-1-2	Fuzzy / 3	13	12:38 -PST	20:38-GMT	SW gray whale (Er) (southbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	2	0-1-2	Fuzzy / 3	14	12:51 -PST	20:51-GMT	S gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	15	13:04 -PST	21:04-GMT	S gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	16	13:32 -PST	21:32-GMT	S gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	17	13:33 -PST	21:33-GMT	SW gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	18	13:45 -PST	21:45-GMT	SW gray whale (Er) (southbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	2	1-2	Fuzzy / 3	19	14:25 -PST	22:25-GMT	S gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	2	1-2	Fuzzy / 3	20	14:56 -PST	22:56-GMT	SW gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Good	0%	2	1-2	Fuzzy / 3	21	15:40 -PST	23:40-GMT	SW gray whale (Er) (southbound) Total whales 1 — 0 calves at sighting
Fair	Good	0%	2	1-2	Fuzzy / 3	22	16:02 -PST	0:02; 2/25/2018-GMT	SO southern sea otter (EI) Total otters 1 — 0 Pups at sighting
Fair	Good	0%	5	1-2	Fuzzy / 3	End Day	16:12 -PST	0:12; 2/25/2018-GMT	T Effort Hours 7:12

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Feb 25 Day 12 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Fair	0%	0	0-1	Fuzzy / 3	01	09:06 -PST SO	17:06-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	02	09:18 -PST SD	17:18-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	03	09:20 -PST S	17:20-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	04	09:33 -PST SD	17:33-GMT common dolphin, species not determined	≈Total dolphins 25 — calves not determined
Fair	Fair	0%	0	0-1	Fuzzy / 3	05	09:40 -PST SD	17:40-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	06	09:41 -PST S	17:41-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	07	09:54 -PST S	17:54-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	08	10:00 -PST SW	18:00-GMT unidentified large whale	Total whales nd — nd calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	09	10:22 -PST S	18:22-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	10	10:40 -PST S	18:40-GMT Images: 6257-9 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	11	10:48 -PST S	18:48-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	12	11:13 -PST S	19:13-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	13	11:29 -PST S	19:29-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	14	11:33 -PST SD	19:33-GMT Images: 6261-6300 bottlenose dolphin (Tt)	Total dolphins 10 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	15	12:01 -PST S	20:01-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	16	12:26 -PST S	20:26-GMT Images: 6303-10 gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	0%	2	0-1-2	Sharp / 3	17	12:44 -PST S	20:44-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	2	0-1-2	Sharp / 3	18	13:07 -PST S	21:07-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	0-1-2	Sharp / 3	19	13:54 -PST S	21:54-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	0-1-2	Sharp / 3	20	13:57 -PST S	21:57-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	0-1-2	Sharp / 3	21	14:12 -PST V	22:12-GMT Fish Commercial Net	
Fair	Fair	0%	3	0-1-2	Sharp / 3	22	15:02 -PST SD	23:02-GMT common dolphin, species not determined	≈Total dolphins 500 — calves not determined
Fair	Fair	0%	3	0-1-2	Sharp / 3	23	15:06 -PST S	23:06-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	0-1-2	Sharp / 3	24	15:36 -PST SP	23:36-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis					
Fair	Fair	0%	3	0-1-2	Sharp / 3	25	15:44 -PST	23:44-GMT	Images: 6312-6	
							S		gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	0-1-2	Sharp / 3	26	15:59 -PST	23:59-GMT		
							SP		harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	1-2	Sharp / 3	27	16:27 -PST	0:27; 2/26/2018-GMT		
							SD		common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
Fair	Fair	0%	1	1-2	Sharp / 3	End Day	17:00 -PST	1:00; 2/26/2018-GMT		
							T	Effort Hours 8:00		

Feb 26 Day 13 of 95

Fair	Poor	0%	3	1-2-3	Fuzzy / 3	01	09:44 -PST	17:44-GMT		
							SP		harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Poor	0%	3	1-2-3	Fuzzy / 3	02	09:50 -PST	17:50-GMT		
							SO		southern sea otter (El)	Total otters 1 — 0 Pups at sighting
Fair	Poor	0%	3	1-2-3	Fuzzy / 3	03	10:04 -PST	18:04-GMT		
							SD		common dolphin, species not determined	≈Total dolphins 40 — calves not determined
Good	Good	0%	1	0-1-2	Fuzzy / 3	04	10:28 -PST	18:28-GMT		
							SD		common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Good	Good	0%	1	0-1-2	Fuzzy / 3	05	10:31 -PST	18:31-GMT		
							S		gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Good	Good	0%	3	1-2-3	Fuzzy / 3	06	11:39 -PST	19:39-GMT		
							S		gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Good	0%	3	3-4	Fuzzy / 3	07	12:05 -PST	20:05-GMT		
							S		gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Good	0%	4	3-4	Fuzzy / 3	08	12:31 -PST	20:31-GMT		
							SD		bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Poor	Good	0%	5	3-4	Fuzzy / 3	End Day	12:38 -PST	20:38-GMT		
							T	Effort Hours 3:33		

Feb 27 Day 14 of 95

						End Day	09:00 -PST	17:00-GMT		
							T	Effort Hours 0:00		

Feb 28 Day 15 of 95

Fair	Fair	0%	0	0-1	Fuzzy / 3	01	09:12 -PST	17:12-GMT		
							SD		bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	02	09:19 -PST	17:19-GMT		
							SD		bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	03	09:22 -PST	17:22-GMT		
							S		gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	04	09:30 -PST	17:30-GMT		
							SD		bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	05	10:14 -PST	18:14-GMT		
							SP		harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	06	10:49 -PST	18:49-GMT		
							S		gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	07	12:00 -PST	20:00-GMT		
							SD		bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2-3	Fuzzy / 3	08	12:32 -PST	20:32-GMT		
							SD		bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2-3	Fuzzy / 3	09	13:00 -PST	21:00-GMT		
							SW		gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	Sighting Code	Time	Species	Notes
Fair	Fair	0%	1	1-2	Fuzzy / 3	10	13:06 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	11	13:39 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	12	13:55 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	13	14:46 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	14	15:22 -PST	gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	15	15:41 -PST	common dolphin, species not determined	≈Total dolphins 150 — calves not determined
Fair	Fair	20%	0	0-1	Fuzzy / 3	16	16:27 -PST	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	End Day	17:00 -PST	1:00; 3/1/2018-GMT	Effort Hours 8:00

Mar 01 Day 16 of 95

Fair	Fair	80%	1	0-1	Fuzzy / 3	01	09:05 -PST	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	80%	1	0-1	Fuzzy / 3	02	09:16 -PST	bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	80%	1	0-1	Fuzzy / 3	03	09:19 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	04	11:14 -PST	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	05	11:26 -PST	gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	06	11:27 -PST	bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	07	11:46 -PST	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	100%	4	2-3-4	Fuzzy / 3	08	13:56 -PST	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	100%	4	2-3-4	Fuzzy / 3	09	14:19 -PST	bottlenose dolphin (Tt)	Total dolphins 7 — 0 calves at sighting
Fair	Fair	100%	2	0-1-2	Fuzzy / 3	10	15:43 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	100%	2	0-1-2	Fuzzy / 3	End Day	15:51 -PST	23:51-GMT	Effort Hours 6:28

Mar 02 Day 17 of 95

Fair	Poor	100%	0	0-1	Fuzzy / 3	01	09:32 -PST	harbor seal (Pv)	Total seals 3 — 0 pups at sighting
Fair	Poor	100%	0	0-1	Fuzzy / 3	02	09:45 -PST	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Poor	100%	0	0-1	Fuzzy / 3	03	10:16 -PST	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	100%	0	0-1	Fuzzy / 3	04	10:20 -PST	common dolphin, species not determined	≈Total dolphins 350 — calves not determined

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Poor	100%	0	0-1	Fuzzy / 3	05	10:50 -PST	18:50-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	100%	0	0-1	Fuzzy / 3	06	11:19 -PST	19:19-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Fair	Poor	100%	0	0-1	Fuzzy / 3	07	11:36 -PST	19:36-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	100%	0	0-1	Fuzzy / 3	08	11:44 -PST	19:44-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 2000 — calves not determined
Fair	Poor	100%	0	0-1	Fuzzy / 3	09	11:51 -PST	19:51-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 50 — calves not determined
Fair	Poor	80%	0	0-1	Fuzzy / 3	10	12:20 -PST	20:20-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	11	12:43 -PST	20:43-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	12	13:58 -PST	21:58-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	13	14:14 -PST	22:14-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	14	14:37 -PST	22:37-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	15	15:26 -PST	23:26-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	16	15:28 -PST	23:28-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	17	15:59 -PST	23:59-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	80%	1	0-1	Fuzzy / 3	End Day	17:00 -PST	1:00; 3/3/2018-GMT	
							T	Effort Hours 7:30	

Mar 03 Day 18 of 95

Fair	Fair	80%	1	0-1	Fuzzy / 3	01	09:00 -PST	17:00-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	80%	1	0-1	Fuzzy / 3	02	09:03 -PST	17:03-GMT	
							SP	harbor seal (Pv)	Total seals 5 — 0 pups at sighting
Fair	Fair	80%	1	0-1	Fuzzy / 3	03	09:04 -PST	17:04-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	80%	1	0-1	Fuzzy / 3	04	09:14 -PST	17:14-GMT	
							S	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	80%	1	0-1	Fuzzy / 3	05	09:21 -PST	17:21-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
Fair	Fair	80%	1	0-1-3	Fuzzy / 3	06	09:45 -PST	17:45-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	80%	2	0-1-3	Fuzzy / 3	07	10:03 -PST	18:03-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	08	11:05 -PST	19:05-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	09	11:32 -PST	19:32-GMT	
							S	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	80%	3	2-3	Fuzzy / 3	10	11:38 -PST	19:38-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 80%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	11	11:51 -PST S	19:51-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 4	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	12	12:56 -PST S	20:56-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 4	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	13	12:58 -PST S	20:58-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 5	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	End Day	14:03 -PST T	22:03-GMT Effort Hours 5:03	

Mar 04 Day 19 of 95

Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	01	08:51 -PST S	16:51-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	02	09:14 -PST SD	17:14-GMT common dolphin, species not determined	≈Total dolphins 4 — calves not determined
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	03	09:18 -PST SP	17:18-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	04	09:20 -PST S	17:20-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	05	09:25 -PST SD	17:25-GMT common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	06	09:35 -PST S	17:35-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	07	09:41 -PST S	17:41-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	08	09:51 -PST S	17:51-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	09	10:02 -PST SD	18:02-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	10	10:16 -PST S	18:16-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	11	10:21 -PST S	18:21-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	12	10:37 -PST S	18:37-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	13	11:00 -PST S	19:00-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	14	11:09 -PST S	19:09-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	15	11:16 -PST S	19:16-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 0%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	16	12:11 -PST SD	20:11-GMT common dolphin, species not determined	≈Total dolphins 2000 — calves not determined
Quality Good	Contrast Good	CCvr 20%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Sharp / 3	17	12:19 -PST S	20:19-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 20%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Sharp / 3	18	13:18 -PST S	21:18-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Good	Contrast Good	CCvr 20%	Bft 4	Bft Mix 3-4	Horiz - Vis Sharp / 3	19	13:28 -PST SD	21:28-GMT common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Quality Good	Contrast Good	CCvr 20%	Bft 4	Bft Mix 3-4	Horiz - Vis Sharp / 3	20	13:38 -PST S	21:38-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Good	Good	20%	4	3-4	Sharp / 3	21	14:17 -PST S	22:17-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Good	Good	20%	3	3-4	Sharp / 3	22	14:40 -PST S	22:40-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Good	Good	20%	3	3-4	Sharp / 3	23	14:51 -PST S	22:51-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Good	Good	20%	3	3-4	Sharp / 3	24	15:08 -PST S	23:08-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	3	3-4	Fuzzy / 3	25	15:36 -PST S	23:36-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	20%	3	3-4	Fuzzy / 3	26	16:15 -PST SD	0:15; 3/5/2018-GMT common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Fair	Fair	20%	3	3-4	Fuzzy / 3	27	16:37 -PST S	0:37; 3/5/2018-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	20%	3	3-4	Fuzzy / 3	End Day	17:00 -PST T	1:00; 3/5/2018-GMT Effort Hours 8:10	

Mar 05 Day 20 of 95

Fair	Fair	0%	1	0-1	Fuzzy / 3	01	09:05 -PST SP	17:05-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	02	09:10 -PST SP	17:10-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	03	09:14 -PST SD	17:14-GMT common dolphin, species not determined	≈Total dolphins 150 — calves not determined
Fair	Fair	0%	1	0-1	Fuzzy / 3	04	09:23 -PST SD	17:23-GMT common dolphin, species not determined	≈Total dolphins 500 — calves not determined
Fair	Fair	0%	1	0-1	Fuzzy / 3	05	09:58 -PST S	17:58-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1	Fuzzy / 3	06	10:00 -PST S	18:00-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	07	10:01 -PST SD	18:01-GMT Pacific white-sided dolphin (Lo)	≈Total dolphins 12 — nd calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	08	10:53 -PST S	18:53-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	09	11:14 -PST S	19:14-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	40%	0	0-1	Fuzzy / 3	10	12:00 -PST SW	20:00-GMT gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	0	0-1	Fuzzy / 3	11	12:20 -PST S	20:20-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	1	0-1	Fuzzy / 3	12	12:48 -PST S	20:48-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	2	0-1-2	Fuzzy / 3	13	14:18 -PST S	22:18-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	2	0-1-2	Fuzzy / 3	14	14:45 -PST S	22:45-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	60%	2	0-1-2	Fuzzy / 3	15	14:58 -PST S	22:58-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	2	0-1-2	Fuzzy / 3	16	15:02 -PST S	23:02-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	17	15:26 -PST	23:26-GMT		
Fair	Fair	60%	2	0-1-2	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 5	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	18	15:51 -PST	23:51-GMT		
Fair	Fair	60%	3	2-3	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 1	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	19	15:58 -PST	23:58-GMT		
Fair	Fair	60%	3	2-3	Fuzzy / 3		SW	gray whale (Er) (southbound)	Total whales 1	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	20	16:00 -PST	0:00; 3/6/2018-GMT		
Fair	Fair	60%	3	2-3	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	21	16:36 -PST	0:36; 3/6/2018-GMT		
Fair	Fair	60%	3	2-3	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 3	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:00 -PST	1:00; 3/6/2018-GMT		
Fair	Fair	60%	3	2-3	Fuzzy / 3	Day	T	Effort Hours 8:00		

Mar 06 Day 21 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	09:00 -PST	17:00-GMT		
						Day	T	Effort Hours 0:00		

Mar 07 Day 22 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:11 -PST	17:11-GMT		
Fair	Poor	100%	0	0-1	Fuzzy / 2		SO	southern sea otter (EI)	Total otters 1	0 Pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	09:27 -PST	17:27-GMT		
Fair	Poor	100%	0	0-1	Fuzzy / 2		S	gray whale (Er) (northbound)	Total whales 2	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	09:28 -PST	17:28-GMT		
Fair	Poor	100%	0	0-1	Fuzzy / 2		S	gray whale (Er) (northbound)	Total whales 1	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	09:41 -PST	17:41-GMT		
Fair	Poor	100%	0	0-1	Fuzzy / 2		SD	common dolphin, species not determined	≈Total dolphins 50	calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	09:58 -PST	17:58-GMT		
Fair	Poor	100%	0	0-1	Fuzzy / 2		SP	harbor seal (Pv)	Total seals 1	0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	10:44 -PST	18:44-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	07	11:31 -PST	19:31-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	08	12:01 -PST	20:01-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 1	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	09	12:35 -PST	20:35-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 1	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	10	12:55 -PST	20:55-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 3	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	11	13:34 -PST	21:34-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 4	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	12	13:52 -PST	21:52-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 1	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	13	14:08 -PST	22:08-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		SD	common dolphin, species not determined	≈Total dolphins 200	calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	14	14:09 -PST	22:09-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2	0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	15	14:42 -PST	22:42-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		SD	Pacific white-sided dolphin (Lo)	≈Total dolphins 40	nd calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	16	14:53 -PST	22:53-GMT		
Fair	Fair	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 1	0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Fair	100%	2	1-2	Fuzzy / 3	17	15:52 -PST	23:52-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	100%	3	2-3	Fuzzy / 3	18	16:12 -PST	0:12; 3/8/2018-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	100%	3	2-3	Fuzzy / 3	19	16:16 -PST	0:16; 3/8/2018-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	100%	3	2-3	Fuzzy / 3	End Day	17:00 -PST	1:00; 3/8/2018-GMT	
							T	Effort Hours 8:00	

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Fair	Fair	20%	0	0-1	Fuzzy / 3	01	09:03 -PST	17:03-GMT	
							SO	southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	02	09:11 -PST	17:11-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	03	09:30 -PST	17:30-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	04	09:39 -PST	17:39-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 60 — calves not determined
Fair	Fair	20%	0	0-1	Fuzzy / 3	05	09:46 -PST	17:46-GMT	
							S	gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	06	10:28 -PST	18:28-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 700 — calves not determined
Fair	Fair	20%	0	0-1	Fuzzy / 3	07	11:00 -PST	19:00-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	08	11:22 -PST	19:22-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	09	12:12 -PST	20:12-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	10	12:32 -PST	20:32-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	1	1-2-3	Fuzzy / 3	11	12:47 -PST	20:47-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	1	1-2-3	Fuzzy / 3	12	13:01 -PST	21:01-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	1	1-2-3	Fuzzy / 3	13	13:34 -PST	21:34-GMT	
							SW	fin whale (Bp)	Totals not indicated
Fair	Fair	20%	2	1-2-3	Fuzzy / 3	14	14:42 -PST	22:42-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	2	1-2-3	Fuzzy / 3	15	15:56 -PST	23:56-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	2	1-2-3	Fuzzy / 3	16	16:28 -PST	0:28; 3/9/2018-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 8 — 0 calves at sighting
Fair	Fair	20%	2	1-2-3	Fuzzy / 3	17	16:35 -PST	0:35; 3/9/2018-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	40%	4	4-5	Fuzzy / 3	End Day	17:00 -PST	1:00; 3/9/2018-GMT	
							T	Effort Hours 8:00	

Mar 09 Day 24 of 95

Fair	Fair	40%	1	1-2	Fuzzy / 2	01	08:50 -PST	16:50-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	02	08:55 -PST S	16:55-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	03	09:22 -PST S	17:22-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	04	09:31 -PST V	17:31-GMT Fish Commercial Lobster/Crab L57227	
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	05	10:10 -PST S	18:10-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	06	10:29 -PST S	18:29-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	07	12:03 -PST S	20:03-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	08	12:20 -PST S	20:20-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	09	14:04 -PST SW	22:04-GMT unidentified large whale	Total whales nd — nd calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	10	15:00 -PST SD	23:00-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	11	15:47 -PST S	23:47-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	12	16:45 -PST SD	0:45; 3/10/2018-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	End Day	17:00 -PST T	1:00; 3/10/2018-GMT Effort Hours 7:48	

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Quality Not Acceptable	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PST T	17:00-GMT Effort Hours 0:00	
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Mar 11 Day 26 of 95

Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	01	09:17 -PDT S	16:17-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:40 -PDT SO	16:40-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	09:54 -PDT SP	16:54-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	09:58 -PDT S	16:58-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	10:49 -PDT SD	17:49-GMT common dolphin, species not determined	≈Total dolphins 60 — calves not determined
Quality Fair	Contrast Poor	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	06	11:14 -PDT S	18:14-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	07	11:15 -PDT SW	18:15-GMT unidentified large whale	Total whales nd — nd calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	08	11:28 -PDT SP	18:28-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	09	11:46 -PDT S	18:46-GMT Images: 9439-9443 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	10	12:16 -PDT S	19:16-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Poor	80%	0	0-1	Fuzzy / 3	11	12:33 -PDT S	19:33-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Fair	Poor	80%	0	0-1	Fuzzy / 3	12	13:02 -PDT S	20:02-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	80%	0	0-1	Fuzzy / 3	13	13:46 -PDT S	20:46-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	60%	0	0-1	Fuzzy / 3	14	13:57 -PDT SD	20:57-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Poor	60%	0	0-1	Fuzzy / 3	15	14:03 -PDT S	21:03-GMT Images: 9449-55 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	40%	0	0-1	Fuzzy / 3	16	14:20 -PDT S	21:20-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	40%	1	0-1	Fuzzy / 3	17	14:22 -PDT SD	21:22-GMT common dolphin, species not determined	≈Total dolphins 60 — calves not determined
Fair	Fair	40%	1	0-1	Fuzzy / 3	18	14:30 -PDT S	21:30-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	40%	1	0-1	Fuzzy / 3	19	14:45 -PDT SD	21:45-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	40%	1	0-1	Fuzzy / 3	20	14:49 -PDT S	21:49-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	40%	1	0-1	Fuzzy / 3	21	15:23 -PDT S	22:23-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	40%	1	0-1	Fuzzy / 3	22	16:44 -PDT S	23:44-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	40%	1	0-1	Fuzzy / 3	End Day	17:00 -PDT T	0:00; 3/12/2018-GMT Effort Hours 8:00	

Mar 12 Day 27 of 95

Poor	Poor	100%	0	0	Fuzzy / 2	01	09:04 -PDT S	16:04-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0	Fuzzy / 2	02	09:37 -PDT SO	16:37-GMT southern sea otter (El)	Total otters 1 — 0 Pups at sighting
Poor	Poor	100%	0	0	Fuzzy / 2	03	09:42 -PDT S	16:42-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0	Fuzzy / 2	04	09:58 -PDT SP	16:58-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Poor	Poor	100%	0	0	Fuzzy / 2	05	10:08 -PDT SD	17:08-GMT common dolphin, species not determined	≈Total dolphins 4000 — calves not determined
Poor	Poor	100%	1	0-1	Fuzzy / 2	06	10:19 -PDT S	17:19-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	07	10:34 -PDT S	17:34-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	08	10:43 -PDT SP	17:43-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	09	10:56 -PDT S	17:56-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	10	11:01 -PDT S	18:01-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	11	11:10 -PDT S	18:10-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Poor	Poor	100%	1	0-1	Fuzzy / 2	12	11:15 -PDT	18:15-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	13	11:28 -PDT	18:28-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	14	11:42 -PDT	18:42-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	15	12:32 -PDT	19:32-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	16	12:33 -PDT	19:33-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	17	12:51 -PDT	19:51-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	18	13:10 -PDT	20:10-GMT	
							SD	Pacific white-sided dolphin (Lo)	≈Total dolphins 8 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	19	14:51 -PDT	21:51-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	20	14:55 -PDT	21:55-GMT Images: 9385-89	
							SW	gray whale (Er) (southbound)	Total whales 3 — 0 calves at sighting
Poor	Poor	100%	1	1-2	Fuzzy / 2	21	16:16 -PDT	23:16-GMT	
							S	gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Poor	Poor	100%	1	1-2	Fuzzy / 2	End Day	16:35 -PDT	23:35-GMT	
							T	Effort Hours 7:35	

Mar 13 Day 28 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day			
						T	09:00 -PDT	16:00-GMT	
							T	Effort Hours 0:00	

Mar 14 Day 29 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	01	09:00 -PDT	16:00-GMT	
							SO	southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	02	09:05 -PDT	16:05-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	03	09:06 -PDT	16:06-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	04	09:23 -PDT	16:23-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	05	09:37 -PDT	16:37-GMT	
							S	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	06	09:43 -PDT	16:43-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	0-1-2	Fuzzy / 3	07	10:00 -PDT	17:00-GMT Images: 9500-02	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	2	1-2-3	Fuzzy / 3	08	10:08 -PDT	17:08-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	2	1-2-3	Fuzzy / 3	09	10:24 -PDT	17:24-GMT	
							S	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3	10	10:35 -PDT	17:35-GMT Images: 9503-07	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	4	3-4	Fuzzy / 3	11	10:49 -PDT	17:49-GMT	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	12	11:00 -PDT S	18:00-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	13	11:10 -PDT SW	18:10-GMT unidentified large whale	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	14	11:38 -PDT S	18:38-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	15	11:56 -PDT S	18:56-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 0%	Bft 4	Bft Mix 3-4-5	Horiz - Vis Fuzzy / 3	16	12:03 -PDT S	19:03-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 0%	Bft 4	Bft Mix 3-4-5	Horiz - Vis Fuzzy / 3	17	12:10 -PDT S	19:10-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 0%	Bft 4	Bft Mix 3-4-5	Horiz - Vis Fuzzy / 3	18	12:26 -PDT S	19:26-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 0%	Bft 4	Bft Mix 3-4-5	Horiz - Vis Fuzzy / 3	19	12:42 -PDT S	19:42-GMT Images: 9508-16 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	20	12:50 -PDT S	19:50-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	21	13:19 -PDT S	20:19-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	22	13:46 -PDT S	20:46-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	23	13:55 -PDT S	20:55-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	24	14:13 -PDT S	21:13-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	25	15:14 -PDT S	22:14-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	26	15:56 -PDT S	22:56-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	27	16:42 -PDT SD	23:42-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	28	17:00 -PDT S	0:00; 3/15/2018-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	End Day	17:09 -PDT T	0:09; 3/15/2018-GMT Effort Hours 8:09	

Mar 15 Day 30 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	01	08:56 -PDT S	15:56-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	02	08:57 -PDT SO	15:57-GMT Images: 9517-45 southern sea otter (El)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 5	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	End Day	10:00 -PDT T	17:00-GMT Effort Hours 1:04	

Mar 16 Day 31 of 95

Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	01	10:51 -PDT S	17:51-GMT Images: 9599-609 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	02	11:05 -PDT S	18:05-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis			
Fair	Fair	100%	1	0-1-2	Fuzzy / 2	03	11:14 -PDT SP	18:14-GMT harbor seal (Pv) Total seals 2 — 0 pups at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	04	13:24 -PDT SD	20:24-GMT Pacific white-sided dolphin (Lo) ≈Total dolphins 50 — nd calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 3	05	13:43 -PDT SD	20:43-GMT Images: 9611-23 bottlenose dolphin (Tt) Total dolphins 5 — 0 calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 3	06	14:13 -PDT S	21:13-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 3	07	14:20 -PDT SO	21:20-GMT southern sea otter (EI) Total otters 1 — 0 Pups at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 3	08	14:26 -PDT S	21:26-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 3	09	14:38 -PDT S	21:38-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 2	10	14:41 -PDT S	21:41-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 2	11	14:44 -PDT SD	21:44-GMT Pacific white-sided dolphin (Lo) ≈Total dolphins 60 — nd calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 1.5	End Day	14:54 -PDT T	21:54-GMT Effort Hours 3:21

Mar 17 Day 32 of 95

Fair	Fair	0%	1	1-2	Fuzzy / 3	01	09:11 -PDT S	16:11-GMT gray whale (Er) (northbound) Total whales 3 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	02	09:16 -PDT S	16:16-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	03	09:20 -PDT S	16:20-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	04	09:42 -PDT S	16:42-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	2	1-2-3	Fuzzy / 3	05	09:52 -PDT S	16:52-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	2	1-2-3	Fuzzy / 3	06	10:02 -PDT S	17:02-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	2	1-2-3	Fuzzy / 3	07	10:06 -PDT SP	17:06-GMT harbor seal (Pv) Total seals 1 — 0 pups at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	08	10:07 -PDT SP	17:07-GMT harbor seal (Pv) Total seals 1 — 0 pups at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	09	10:15 -PDT S	17:15-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	10	10:23 -PDT SP	17:23-GMT harbor seal (Pv) Total seals 1 — 0 pups at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	11	10:39 -PDT S	17:39-GMT gray whale (Er) (northbound) Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	12	10:43 -PDT SW	17:43-GMT humpback whale (Mn) Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	2-3	Fuzzy / 3	13	10:44 -PDT S	17:44-GMT gray whale (Er) (northbound) Total whales 3 — 0 calves at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3	14	10:54 -PDT S	17:54-GMT gray whale (Er) (northbound) Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	15	11:13 -PDT SW	18:13-GMT unidentified large whale	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	16	11:20 -PDT S	18:20-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	17	11:44 -PDT S	18:44-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	18	12:18 -PDT SW	19:18-GMT unidentified large whale	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 5	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	End Day	12:44 -PDT T	19:44-GMT Effort Hours 3:44	

Mar 18 Day 33 of 95

Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	01	09:06 -PDT S	16:06-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	02	09:20 -PDT S	16:20-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	03	09:32 -PDT S	16:32-GMT Images: 9630-9647 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	04	09:33 -PDT S	16:33-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	05	10:02 -PDT SP	17:02-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	06	10:18 -PDT SO	17:18-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	07	10:19 -PDT SD	17:19-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	08	10:52 -PDT S	17:52-GMT Images: 9649-51 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	09	11:08 -PDT S	18:08-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	10	11:44 -PDT SP	18:44-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	11	12:26 -PDT S	19:26-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	12	12:58 -PDT S	19:58-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	13	13:25 -PDT S	20:25-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	14	13:30 -PDT S	20:30-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	15	13:49 -PDT S	20:49-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	16	14:12 -PDT S	21:12-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	17	14:13 -PDT S	21:13-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	18	14:30 -PDT S	21:30-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	19	14:32 -PDT SD	21:32-GMT bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	20	14:49 -PDT S	21:49-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	21	15:03 -PDT S	22:03-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	22	15:36 -PDT S	22:36-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	23	15:44 -PDT S	22:44-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	24	15:53 -PDT SD	22:53-GMT bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	25	15:55 -PDT S	22:55-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	26	16:19 -PDT SD	23:19-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	27	16:20 -PDT S	23:20-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	28	16:40 -PDT S	23:40-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	29	17:00 -PDT S	0:00; 3/19/2018-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	End Day	17:05 -PDT T	0:05; 3/19/2018-GMT Effort Hours 8:05	

Mar 19 Day 34 of 95

Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:03 -PDT SP	16:03-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:07 -PDT S	16:07-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	09:27 -PDT SP	16:27-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	10:51 -PDT S	17:51-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	11:17 -PDT S	18:17-GMT Images: 9694-8 gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	06	11:23 -PDT SD	18:23-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	07	11:38 -PDT S	18:38-GMT Images: 9700-17 gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	08	11:56 -PDT S	18:56-GMT Images: 9718-19 gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	09	12:22 -PDT S	19:22-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	10	12:33 -PDT SD	19:33-GMT bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	11	12:36 -PDT S	19:36-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	12	13:08 -PDT S	20:08-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	13	14:08 -PDT S	21:08-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	14	14:46 -PDT SD	21:46-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	15	15:16 -PDT S	22:16-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 60%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	16	15:18 -PDT SD	22:18-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	17	15:39 -PDT SD	22:39-GMT Images: 9775-8 bottlenose dolphin (Tt)	Total dolphins 11 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	18	15:51 -PDT S	22:51-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	19	16:11 -PDT S	23:11-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	20	16:22 -PDT SP	23:22-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	21	16:28 -PDT SO	23:28-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	22	16:38 -PDT S	23:38-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 3/20/2018-GMT Effort Hours 8:00	

Mar 20 Day 35 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00
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Mar 21 Day 36 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00
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Mar 22 Day 37 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00
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Mar 23 Day 38 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	01	09:13 -PDT S	16:13-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	02	09:16 -PDT SD	16:16-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	03	09:27 -PDT S	16:27-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	04	09:49 -PDT SP	16:49-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	05	09:53 -PDT SD	16:53-GMT Images: 9785-801 common dolphin, species not determined	≈Total dolphins 3000 — calves not determined
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	06	10:18 -PDT SW	17:18-GMT humpback whale (Mn)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	07	10:39 -PDT SW	17:39-GMT unidentified large whale	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	08	11:08 -PDT S	18:08-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	09	11:45 -PDT S	18:45-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	10	12:08 -PDT S	19:08-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	11	12:12 -PDT S	19:12-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	12	13:00 -PDT S	20:00-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	13	13:03 -PDT SW	20:03-GMT humpback whale (Mn)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	14	13:09 -PDT SW	20:09-GMT humpback whale (Mn)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 2	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	15	13:37 -PDT S	20:37-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	16	13:56 -PDT S	20:56-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	17	14:02 -PDT S	21:02-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	18	14:12 -PDT S	21:12-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	19	14:35 -PDT S	21:35-GMT gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	20	15:40 -PDT S	22:40-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	21	15:52 -PDT SD	22:52-GMT common dolphin, species not determined	≈Total dolphins 1500 — calves not determined
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	22	16:38 -PDT S	23:38-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	23	16:44 -PDT S	23:44-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	24	16:45 -PDT S	23:45-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 3/24/2018-GMT Effort Hours 8:00	

Mar 24 Day 39 of 95

Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	01	08:56 -PDT S	15:56-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	02	09:03 -PDT S	16:03-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	03	09:13 -PDT S	16:13-GMT gray whale (Er) (northbound)	Total whales 6 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	04	09:22 -PDT S	16:22-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	05	09:24 -PDT S	16:24-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	06	09:53 -PDT S	16:53-GMT gray whale (Er) (northbound)	Total whales 6 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	07	10:43 -PDT V	17:43-GMT Private Sportfishing	
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	08	10:48 -PDT S	17:48-GMT Images: 9823-5 gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Fair	20%	2	2-3	Fuzzy / 3	09	10:49 -PDT	17:49-GMT	
							S	gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Fair	Fair	20%	2	2-3-4	Fuzzy / 3	10	11:30 -PDT	18:30-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	11	12:12 -PDT	19:12-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	12	12:32 -PDT	19:32-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	13	12:41 -PDT	19:41-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 9 — nd calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	14	12:47 -PDT	19:47-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	15	13:19 -PDT	20:19-GMT Images: 9830-4	
							S	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	16	13:28 -PDT	20:28-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	4	4-5	Fuzzy / 3	17	13:44 -PDT	20:44-GMT	
							S	gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Fair	Fair	0%	5	5-6	Fuzzy / 3	End Day	13:54 -PDT	20:54-GMT	
							T	Effort Hours 4:58	

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Fair	Fair	0%	4	4-5	Fuzzy / 3	01	09:11 -PDT	16:11-GMT	
							S	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	0%	4	4-5	Fuzzy / 3	02	09:12 -PDT	16:12-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Fair	Fair	0%	4	4-5	Fuzzy / 3	03	10:06 -PDT	17:06-GMT Images: 9840-75	
							S	gray whale (Er) (northbound)	Total whales 3 — 1 calf at sighting
Fair	Fair	0%	5	5-6	Fuzzy / 3	End Day	10:09 -PDT	17:09-GMT	
							T	Effort Hours 1:09	

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Fair	Fair	0%	3	2-3-4	Fuzzy / 3	01	08:55 -PDT	15:55-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	02	09:22 -PDT	16:22-GMT Images: 9879-900	
							S	gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	03	09:33 -PDT	16:33-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	04	09:39 -PDT	16:39-GMT	
							S	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	05	09:52 -PDT	16:52-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	06	10:12 -PDT	17:12-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	07	10:20 -PDT	17:20-GMT	
							S	gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	08	10:23 -PDT	17:23-GMT	
							S	gray whale (Er) (northbound)	Total whales 4 — 0 calves at sighting
Fair	Fair	0%	3	2-3-4	Fuzzy / 3	09	10:34 -PDT	17:34-GMT Images: 9902-14	
							S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	10	10:48 -PDT S	17:48-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	11	11:23 -PDT S	18:23-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	12	11:31 -PDT S	18:31-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	13	11:43 -PDT SD	18:43-GMT Pacific white-sided dolphin (Lo)	≈Total dolphins 40 — nd calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	14	12:12 -PDT S	19:12-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	15	12:19 -PDT S	19:19-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	16	12:20 -PDT SD	19:20-GMT common dolphin, species not determined	≈Total dolphins 400 — calves not determined
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Sharp / 3	17	12:37 -PDT S	19:37-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Sharp / 3	18	13:08 -PDT S	20:08-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Sharp / 3	19	13:09 -PDT S	20:09-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Sharp / 3	20	13:29 -PDT SP	20:29-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Sharp / 3	21	13:50 -PDT S	20:50-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Sharp / 3	22	13:55 -PDT S	20:55-GMT Images: 9917-21 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	23	16:27 -PDT S	23:27-GMT Images: 9933-6 gray whale (Er) (northbound)	Total whales 2 — nd calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 3/27/2018-GMT Effort Hours 8:05	

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Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00	
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Mar 28 Day 43 of 95

Quality Fair	Contrast Poor	CCvr 0%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:25 -PDT SO	16:25-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Poor	CCvr 0%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:28 -PDT SD	16:28-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 0%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	10:01 -PDT S	17:01-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 0%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	10:03 -PDT SD	17:03-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 0%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	10:39 -PDT S	17:39-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 0%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	06	10:41 -PDT S	17:41-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 0%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	07	11:23 -PDT S	18:23-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Poor	0%	0	0-1	Fuzzy / 3	08	11:28 -PDT S	18:28-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	09	11:36 -PDT SP	18:36-GMT northern elephant seal (Ma)	Total seals 1 — a pup on sand
Fair	Fair	0%	0	0-1	Fuzzy / 3	10	11:38 -PDT S	18:38-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	11	12:28 -PDT S	19:28-GMT Images:0058-69 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	12	13:26 -PDT S	20:26-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	13	13:44 -PDT S	20:44-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	14	13:47 -PDT S	20:47-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	15	13:56 -PDT S	20:56-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	0	0-1	Fuzzy / 3	16	14:00 -PDT SD	21:00-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	17	14:03 -PDT S	21:03-GMT Images:0086-0128 gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	20%	0	0-1	Fuzzy / 3	18	14:07 -PDT SD	21:07-GMT common dolphin, species not determined	≈Total dolphins 1500 — calves not determined
Fair	Fair	20%	0	0-1	Fuzzy / 3	19	14:58 -PDT SD	21:58-GMT bottlenose dolphin (Tt)	Total dolphins 7 — 0 calves at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	20	15:23 -PDT S	22:23-GMT Images:0134-41 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	21	15:36 -PDT SP	22:36-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	22	15:40 -PDT S	22:40-GMT Images:0145-6 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	23	16:05 -PDT S	23:05-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	24	16:08 -PDT S	23:08-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	25	16:33 -PDT S	23:33-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	0	0-1-2	Fuzzy / 3	End Day	17:00 -PDT T	0:00; 3/29/2018-GMT Effort Hours 8:00	

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Poor	Poor	100%	1	0-1	Indeterminate / 2	01	10:22 -PDT SD	17:22-GMT common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
Poor	Poor	100%	1	0-1	Indeterminate / 2	02	10:26 -PDT SP	17:26-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Poor	Poor	100%	1	0-1	Indeterminate / 2	03	10:36 -PDT S	17:36-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Indeterminate / 2	04	10:50 -PDT SD	17:50-GMT bottlenose dolphin (Tt)	Total dolphins 7 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Indeterminate / 2	05	10:57 -PDT S	17:57-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Indeterminate / 2	06 S	11:35 -PDT 18:35-GMT	Images: 0171-94 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Indeterminate / 1.5	End Day T	12:06 -PDT 19:06-GMT Effort Hours 1:46		

Mar 30 Day 45 of 95

Quality Poor	Contrast Poor	CCvr 100%	Bft ND	Bft Mix NV / <1	Horiz - Vis NV / <1	End Day T	09:00 -PDT 16:00-GMT Effort Hours 0:00		
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Mar 31 Day 46 of 95

Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	01 SP	12:05 -PDT 19:05-GMT	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	02 S	12:34 -PDT 19:34-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	03 S	13:06 -PDT 20:06-GMT	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	04 SW	13:31 -PDT 20:31-GMT	gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	05 SD	13:47 -PDT 20:47-GMT	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	06 SW	14:13 -PDT 21:13-GMT	gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	07 S	14:45 -PDT 21:45-GMT	Images: 0368-73 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	08 S	14:49 -PDT 21:49-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	09 S	14:55 -PDT 21:55-GMT	Images: 0375-0434 gray whale (Er) (northbound)	Total whales 7 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	10 S	15:00 -PDT 22:00-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	11 S	15:23 -PDT 22:23-GMT	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	12 S	15:53 -PDT 22:53-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	13 SD	16:01 -PDT 23:01-GMT	bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	14 S	16:02 -PDT 23:02-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	15 SD	16:25 -PDT 23:25-GMT	bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	16 SD	16:30 -PDT 23:30-GMT	common dolphin, species not determined	≈Total dolphins 40 — calves not determined
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	End Day T	17:00 -PDT 0:00; 4/1/2018-GMT Effort Hours 5:00		

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Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	01 S	09:56 -PDT 16:56-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	02 S	10:32 -PDT 17:32-GMT	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	03 S	11:10 -PDT 18:10-GMT	Images: 0440-0462 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Poor	Poor	100%	1	0-1	Fuzzy / 2	04	12:04 -PDT SD	19:04-GMT bottlenose dolphin (Tt)	Images: 0467-0500 Total dolphins 11 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	05	12:44 -PDT S	19:44-GMT gray whale (Er) (northbound)	Images: 401-9 Total whales 3 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	06	13:24 -PDT SP	20:24-GMT harbor seal (Pv)	Images: 0522-4 Total seals 1 — 0 pups at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	07	13:34 -PDT S	20:34-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	08	13:56 -PDT S	20:56-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	09	14:14 -PDT S	21:14-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	10	15:13 -PDT SD	22:13-GMT Pacific white-sided dolphin (Lo)	Images: 0528 ≈Total dolphins 20 — nd calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	11	15:50 -PDT SD	22:50-GMT bottlenose dolphin (Tt)	Total dolphins 7 — nd calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	12	16:54 -PDT S	23:54-GMT gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 2	End Day	17:08 -PDT T	0:08; 4/2/2018-GMT Effort Hours 7:18	

Apr 02 Day 48 of 95

Poor	Poor	100%	0	0-1	Fuzzy / 3	01	09:48 -PDT S	16:48-GMT gray whale (Er) (northbound)	Images: 0530-3 Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	02	10:13 -PDT S	17:13-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	03	11:00 -PDT S	18:00-GMT gray whale (Er) (northbound)	Images: 0544-6 Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	04	11:03 -PDT SP	18:03-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	05	11:09 -PDT SD	18:09-GMT Pacific white-sided dolphin (Lo)	Images: 0535-42 ≈Total dolphins 15 — nd calves at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	06	11:18 -PDT S	18:18-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	07	11:19 -PDT S	18:19-GMT gray whale (Er) (northbound)	Images: 0548-77 Total whales 2 — 0 calves at sighting
Poor	Poor	100%	0	0-1	Fuzzy / 3	08	11:38 -PDT S	18:38-GMT gray whale (Er) (northbound)	Images: 0587-89 Total whales 2 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 3	09	11:42 -PDT SD	18:42-GMT bottlenose dolphin (Tt)	Images: 0579-85 Total dolphins 3 — 0 calves at sighting
Poor	Poor	100%	1	0-1	Fuzzy / 3	10	12:56 -PDT S	19:56-GMT gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Poor	Poor	80%	1	1-2	Fuzzy / 3	11	14:28 -PDT S	21:28-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	80%	1	1-2	Fuzzy / 3	12	15:19 -PDT SD	22:19-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	60%	1	1-2	Fuzzy / 3	13	15:23 -PDT S	22:23-GMT gray whale (Er) (northbound)	Images: 0594-612 Total whales 2 — 1 calf at sighting
Fair	Fair	60%	1	1-2	Fuzzy / 3	14	15:29 -PDT S	22:29-GMT gray whale (Er) (northbound)	Images: 0613-21 Total whales 6 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	15	15:57 -PDT S	22:57-GMT gray whale (Er) (northbound)	Images: 0624-35	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	16	16:14 -PDT S	23:14-GMT gray whale (Er) (northbound)	Images: 0636-61	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	17	16:28 -PDT S	23:28-GMT gray whale (Er) (northbound)		Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	18	16:43 -PDT S	23:43-GMT gray whale (Er) (northbound)		Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/3/2018-GMT Effort Hours 7:30		

Apr 03 Day 49 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00		
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Apr 04 Day 50 of 95

Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Indeterminate / 2	01	09:00 -PDT S	16:00-GMT gray whale (Er) (northbound)	Images: 0662-711	Total whales 4 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Indeterminate / 2	02	09:25 -PDT S	16:25-GMT gray whale (Er) (northbound)		Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Indeterminate / 2	03	10:19 -PDT S	17:19-GMT gray whale (Er) (northbound)		Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Indeterminate / 2	04	11:28 -PDT S	18:28-GMT gray whale (Er) (northbound)		Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Indeterminate / 3	05	12:13 -PDT S	19:13-GMT gray whale (Er) (northbound)		Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 100%	Bft 2	Bft Mix 1-2	Horiz - Vis Indeterminate / 3	06	15:49 -PDT S	22:49-GMT gray whale (Er) (northbound)	Images: 0728-39	Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 100%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	07	16:21 -PDT SP	23:21-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	08	16:53 -PDT S	23:53-GMT gray whale (Er) (northbound)		Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/5/2018-GMT Effort Hours 8:00		

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Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:14 -PDT S	16:14-GMT gray whale (Er) (northbound)		Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:23 -PDT S	16:23-GMT gray whale (Er) (northbound)		Total whales 3 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	09:30 -PDT SP	16:30-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Poor	CCvr 60%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	10:02 -PDT S	17:02-GMT gray whale (Er) (northbound)		Total whales 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 60%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	10:15 -PDT SD	17:15-GMT bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 60%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	06	10:53 -PDT SP	17:53-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	07	11:09 -PDT SD	18:09-GMT bottlenose dolphin (Tt)		Total dolphins 10 — nd calves at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 2	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	08	13:46 -PDT S	20:46-GMT gray whale (Er) (northbound)		Total whales 3 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis					
Fair	Fair	80%	2	0-1-2	Fuzzy / 3	09	14:37 -PDT	21:37-GMT	Images: 0761-70	
						S			gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	80%	1	0-1-2	Fuzzy / 3	10	16:35 -PDT	23:35-GMT	Images: 0772-8	
						SD			bottlenose dolphin (Tt)	Total dolphins 11 — 0 calves at sighting
Fair	Fair	80%	1	0-1-2	Fuzzy / 3	11	16:51 -PDT	23:51-GMT		
						SP			harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	80%	1	0-1-2	Fuzzy / 3	12	16:57 -PDT	23:57-GMT		
						S			gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Fair	80%	1	0-1-2	Fuzzy / 3	13	17:00 -PDT	0:00; 4/6/2018-GMT	Images: 0779-80	
						S			gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	80%	1	0-1-2	Fuzzy / 3	End	17:13 -PDT	0:13; 4/6/2018-GMT		
						Day	T	Effort Hours 8:13		

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Fair	Fair	40%	3	2-3-4	Fuzzy / 3	01	09:15 -PDT	16:15-GMT	Images: 0782-811	
						SP			harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	40%	3	2-3-4	Fuzzy / 3	02	10:06 -PDT	17:06-GMT		
						SD			bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Fair	Fair	40%	3	2-3-4	Fuzzy / 3	03	10:08 -PDT	17:08-GMT		
						S			gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	40%	3	2-3-4	Fuzzy / 3	04	10:31 -PDT	17:31-GMT	Images: 0821-34	
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	40%	3	2-3-4	Fuzzy / 3	05	10:32 -PDT	17:32-GMT	Images: 0817-20	
						S			gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	40%	3	2-3-4	Fuzzy / 3	06	11:37 -PDT	18:37-GMT	Images: 0840	
						S			gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	80%	3	2-3-4	Fuzzy / 3	07	12:09 -PDT	19:09-GMT		
						SD			bottlenose dolphin (Tt)	Total dolphins 4 — nd calves at sighting
Fair	Fair	100%	4	4-5	Fuzzy / 3	08	13:31 -PDT	20:31-GMT	Images: 0848-56	
						S			gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	100%	4	4-5	Fuzzy / 3	09	14:00 -PDT	21:00-GMT		
						SD			common dolphin, species not determined	≈Total dolphins 100 — calves not determined
Fair	Fair	100%	5	5-6	Fuzzy / 3	End	14:03 -PDT	21:03-GMT		
						Day	T	Effort Hours 5:03		

Apr 07 Day 53 of 95

Poor	Poor	100%	1	1-2	Indeterminate / 2	01	09:38 -PDT	16:38-GMT		
						SD			common dolphin, species not determined	≈Total dolphins 75 — calves not determined
Poor	Poor	100%	1	1-2	Indeterminate / 2	02	10:21 -PDT	17:21-GMT		
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Poor	Poor	100%	2	1-2	Indeterminate / 2	03	11:07 -PDT	18:07-GMT	Images: 0865-77	
						S			gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Poor	Poor	100%	2	1-2	Indeterminate / 2	04	11:14 -PDT	18:14-GMT		
						SD			bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Poor	Poor	80%	2	2-3-4	Fuzzy / 2	05	11:33 -PDT	18:33-GMT	Images: 0882-5	
						SD			Pacific white-sided dolphin (Lo)	≈Total dolphins 40 — nd calves at sighting
Fair	Poor	80%	3	3-4	Fuzzy / 3	06	12:30 -PDT	19:30-GMT	Images: 0890-0983	
						SD			bottlenose dolphin (Tt)	Total dolphins 9 — nd calves at sighting
Fair	Fair	60%	4	3-4	Fuzzy / 3	07	13:05 -PDT	20:05-GMT		
						S			gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	08	14:18 -PDT	21:18-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	4	3-4	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	14:28 -PDT	21:28-GMT	Effort Hours 4:57	
Fair	Fair	20%	5	5-6	Fuzzy / 3		T			

Apr 08 Day 54 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:40 -PDT	16:40-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	10:10 -PDT	17:10-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	10:16 -PDT	17:16-GMT	Images: 1053-8 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	10:20 -PDT	17:20-GMT	Images: 0991-1051 common dolphin, long-beaked (Dc)	Totals not indicated
Fair	Fair	20%	2	2-3	Fuzzy / 3		SD			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	10:43 -PDT	17:43-GMT	gray whale (Er) (southbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	2	2-3	Fuzzy / 3		SW			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	11:16 -PDT	18:16-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	2	2-3	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	07	13:28 -PDT	20:28-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	80%	4	3-4-5	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	08	14:39 -PDT	21:39-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	4	3-4-5	Fuzzy / 3		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	15:03 -PDT	22:03-GMT	Effort Hours 6:03	
Fair	Fair	60%	5	5-6	Fuzzy / 3		T			

Apr 09 Day 55 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:17 -PDT	16:17-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	60%	2	0-1-2	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	09:34 -PDT	16:34-GMT	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	09:56 -PDT	16:56-GMT	gray whale (Er) (northbound)	Total whales 3 — 0 calves at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	10:33 -PDT	17:33-GMT	Images: 1061-87 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	10:51 -PDT	17:51-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	11:02 -PDT	18:02-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	07	11:24 -PDT	18:24-GMT	Images: 1090-97 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	08	11:56 -PDT	18:56-GMT	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	09	12:01 -PDT	19:01-GMT	Images: 1119-23 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	10	12:15 -PDT	19:15-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	11	13:20 -PDT	20:20-GMT	common dolphin, species not determined	≈Total dolphins 700 — calves not determined
Fair	Poor	60%	1	0-1	Fuzzy / 2		SD			
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	12	13:23 -PDT	20:23-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Poor	60%	1	0-1	Fuzzy / 2		S			

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis					
Fair	Poor	60%	3	1-2-3	Fuzzy / 2	13	13:53 -PDT	20:53-GMT	Images: 1137-74	
						S			gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Fair	Poor	60%	3	1-2-3	Fuzzy / 2	14	14:39 -PDT	21:39-GMT		
						S			gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	60%	2	1-2	Fuzzy / 2	15	15:00 -PDT	22:00-GMT		
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	0%	2	1-2	Fuzzy / 2	16	15:20 -PDT	22:20-GMT	Images: 1177-9	
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	0%	2	1-2	Fuzzy / 2	17	15:34 -PDT	22:34-GMT	Images: 1181-1207	
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	0%	2	1-2	Fuzzy / 2	18	16:01 -PDT	23:01-GMT		
						SD			bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Fair	Poor	0%	2	1-2	Fuzzy / 2	19	16:36 -PDT	23:36-GMT		
						SD			common dolphin, species not determined	≈Total dolphins 250 — calves not determined
Fair	Poor	0%	2	1-2	Fuzzy / 2	End Day	17:00 -PDT	0:00; 4/10/2018-GMT		
							T	Effort Hours 8:00		

Apr 10 Day 56 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day				
						End Day	09:00 -PDT	16:00-GMT		
							T	Effort Hours 0:00		

Apr 11 Day 57 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis					
Fair	Fair	20%	1	1-2	Fuzzy / 3	01	09:09 -PDT	16:09-GMT		
						SW			gray whale (Er) (southbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	2	2-3	Fuzzy / 3	02	10:14 -PDT	17:14-GMT	Images: 1227-57	
						S			gray whale (Er) (northbound)	Total whales 3 — 1 calf at sighting
Fair	Fair	20%	2	2-3	Fuzzy / 3	03	11:00 -PDT	18:00-GMT		
						SO			southern sea otter (EI)	Totals not indicated
Fair	Fair	20%	3	2-3-4	Fuzzy / 3	04	11:10 -PDT	18:10-GMT		
						SD			bottlenose dolphin (Tt)	Total dolphins 17 — nd calves at sighting
Fair	Fair	20%	3	2-3-4	Fuzzy / 3	05	11:14 -PDT	18:14-GMT		
						SW			unidentified large whale	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	2	2-3	Fuzzy / 3	06	14:12 -PDT	21:12-GMT		
						SD			common dolphin, species not determined	≈Total dolphins 400 — calves not determined
Fair	Fair	60%	2	2-3	Fuzzy / 3	07	14:15 -PDT	21:15-GMT		
						SD			bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Fair	Fair	60%	2	2-3	Fuzzy / 3	08	14:29 -PDT	21:29-GMT		
						SD			Pacific white-sided dolphin (Lo)	≈Total dolphins 30 — nd calves at sighting
Fair	Fair	60%	2	2-3	Fuzzy / 3	09	14:37 -PDT	21:37-GMT	Images: 1271-4	
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	60%	2	2-3	Fuzzy / 3	10	14:43 -PDT	21:43-GMT		
						S			gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	60%	5	4-5	Fuzzy / 3	End Day	14:54 -PDT	21:54-GMT		
							T	Effort Hours 5:54		

Apr 12 Day 58 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day				
						End Day	09:00 -PDT	16:00-GMT		
							T	Effort Hours 0:00		

Apr 13 Day 59 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis					
Fair	Fair	20%	2	1-2	Fuzzy / 3	01	09:00 -PDT	16:00-GMT	Images: 1275-91	
						S			gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis					
Fair	Fair	20%	2	1-2	Fuzzy / 3	02	09:26 -PDT	16:26-GMT	Images: 1293-1316 gray whale (Er) (northbound)	Total whales 3 — 1 calf at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	03	10:10 -PDT	17:10-GMT	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	04	10:21 -PDT	17:21-GMT	southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	05	10:33 -PDT	17:33-GMT	Images: 1318-22 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	06	11:13 -PDT	18:13-GMT	Images: 1324-57 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	07	11:17 -PDT	18:17-GMT	bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	08	12:04 -PDT	19:04-GMT	Images: 1359-1417 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	09	14:17 -PDT	21:17-GMT	Images: 1419-27 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	2	1-2	Fuzzy / 3	End Day	17:00 -PDT	0:00; 4/14/2018-GMT		
							T	Effort Hours 8:00		

Apr 14 Day 60 of 95

Fair	Poor	20%	1	0-1	Fuzzy / 3	01	09:05 -PDT	16:05-GMT	southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Fair	Poor	20%	0	0-1	Fuzzy / 3	02	10:03 -PDT	17:03-GMT	common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
Fair	Poor	20%	0	0-1	Fuzzy / 3	03	10:16 -PDT	17:16-GMT	Images: 1429-33 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Poor	20%	0	0-1	Fuzzy / 3	04	11:42 -PDT	18:42-GMT	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Poor	20%	0	0-1	Fuzzy / 3	05	11:49 -PDT	18:49-GMT	common dolphin, species not determined	≈Total dolphins 700 — calves not determined
Fair	Poor	20%	0	0-1	Fuzzy / 3	06	11:57 -PDT	18:57-GMT	bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Fair	Poor	20%	0	0-1	Fuzzy / 3	07	13:31 -PDT	20:31-GMT	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Poor	20%	0	0-1	Fuzzy / 3	08	14:14 -PDT	21:14-GMT	gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Fair	Fair	20%	1	0-1	Fuzzy / 3	09	14:22 -PDT	21:22-GMT	gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Fair	Fair	20%	1	0-1	Fuzzy / 3	10	15:11 -PDT	22:11-GMT	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	20%	1	0-1	Fuzzy / 3	11	16:08 -PDT	23:08-GMT	Images: 1435-38 bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	20%	1	0-1	Fuzzy / 3	12	16:41 -PDT	23:41-GMT	Images: 1440-76 bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting
Fair	Fair	20%	1	0-1	Fuzzy / 3	End Day	17:00 -PDT	0:00; 4/15/2018-GMT		
							T	Effort Hours 8:00		

Apr 15 Day 61 of 95

Poor	Poor	80%	1	0-1	Fuzzy / 3	01	09:00 -PDT	16:00-GMT	common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
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Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:03 -PDT SO	16:03-GMT southern sea otter (EI)	Total otters 2 — 0 Pups at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	09:27 -PDT S	16:27-GMT Images: 1477-84 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	09:56 -PDT SD	16:56-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	10:13 -PDT SP	17:13-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	06	10:35 -PDT SD	17:35-GMT common dolphin, species not determined	≈Total dolphins 600 — calves not determined
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	07	10:37 -PDT SD	17:37-GMT bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	08	10:56 -PDT SD	17:56-GMT Images: 1486-1526 common dolphin, species not determined	≈Total dolphins 500 — calves not determined
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	09	10:57 -PDT SD	17:57-GMT Pacific white-sided dolphin (Lo)	≈Total dolphins 30 — nd calves at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	10	11:18 -PDT S	18:18-GMT Images: 1528-1621 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	11	12:03 -PDT S	19:03-GMT Images: 1623-78 gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	12	15:06 -PDT S	22:06-GMT Images: 1680-81 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	13	15:16 -PDT S	22:16-GMT Images: 1683-1708 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	14	16:04 -PDT S	23:04-GMT Images: 1710=75 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	15	16:38 -PDT S	23:38-GMT Images: 1777-79 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 80%	Bft 3	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/16/2018-GMT Effort Hours 8:00	

Apr 16 Day 62 of 95

Quality Poor	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Sharp / 3	01	09:15 -PDT SO	16:15-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Poor	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4-5	Horiz - Vis Sharp / 3	02	09:16 -PDT SP	16:16-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Fair	CCvr 0%	Bft 5	Bft Mix 4-5	Horiz - Vis Sharp / 3	End Day	09:46 -PDT T	16:46-GMT Effort Hours 0:46	

Apr 17 Day 63 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00	
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Apr 18 Day 64 of 95

Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:09 -PDT SD	16:09-GMT Images: 1844-65 bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:24 -PDT S	16:24-GMT gray whale (Er) (northbound)	Total whales 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	09:27 -PDT SD	16:27-GMT bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	10:03 -PDT SD	17:03-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 40%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	13:30 -PDT SD	20:30-GMT Pacific white-sided dolphin (Lo)	≈Total dolphins 6 — nd calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	06	13:38 -PDT S	20:38-GMT Images: 1872-1917 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	07	15:58 -PDT S	22:58-GMT Images: 1920-34 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/19/2018-GMT Effort Hours 8:00	

Apr 19 Day 65 of 95

Quality Good	Contrast Good	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Sharp / 3	01	08:46 -PDT S	15:46-GMT gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Good	Contrast Good	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Sharp / 3	02	08:47 -PDT S	15:47-GMT Images: 1936-94 gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Quality Good	Contrast Good	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Sharp / 3	03	08:58 -PDT SD	15:58-GMT Images: 1996-2040 bottlenose dolphin (Tt)	Total dolphins 6 — 1 calf at sighting
Quality Good	Contrast Good	CCvr 20%	Bft 2	Bft Mix 2-3	Horiz - Vis Sharp / 3	04	09:16 -PDT SP	16:16-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Good	CCvr 20%	Bft 4	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	05	10:39 -PDT S	17:39-GMT Images: 2043-4 gray whale (Er) (northbound)	Total whales 2 — 0 calves at sighting
Quality Fair	Contrast Good	CCvr 20%	Bft 5	Bft Mix 4-5	Horiz - Vis Fuzzy / 3	End Day	11:02 -PDT T	18:02-GMT Effort Hours 2:17	

Apr 20 Day 66 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	01	09:00 -PDT SP	16:00-GMT harbor seal (Pv)	Total seals 2 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	02	09:39 -PDT S	16:39-GMT Images: 2048 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 4	Bft Mix 4	Horiz - Vis Fuzzy / 3	03	10:45 -PDT SD	17:45-GMT Images: 2062-84 bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	04	11:59 -PDT S	18:59-GMT Images: 2091-2182 gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	05	13:04 -PDT S	20:04-GMT Images: 2187-2224 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	06	13:19 -PDT SD	20:19-GMT Images: 2226-40 bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	07	13:27 -PDT S	20:27-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	08	13:39 -PDT SD	20:39-GMT Images: 2241-44 bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	09	16:45 -PDT SD	23:45-GMT bottlenose dolphin (Tt)	Total dolphins 12 — nd calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/21/2018-GMT Effort Hours 8:00	

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Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	01	09:05 -PDT SD	16:05-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	02	09:15 -PDT SP	16:15-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	10:00 -PDT S	17:00-GMT Images: 2288-97 gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Poor	CCvr 60%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	11:33 -PDT S	18:33-GMT gray whale (Er) (northbound)	Images: 2299-2311	Total whales 3 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	05	12:19 -PDT SD	19:19-GMT bottlenose dolphin (Tt)	Images: 2314	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 3	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	06	13:55 -PDT SD	20:55-GMT bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	07	15:05 -PDT SP	22:05-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/22/2018-GMT Effort Hours 8:00		

Apr 22 Day 68 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	01	09:15 -PDT SP	16:15-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	02	10:58 -PDT S	17:58-GMT gray whale (Er) (northbound)	Images: 2327-80	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	03	11:14 -PDT S	18:14-GMT gray whale (Er) (northbound)	Images: 2382-2612	Total whales 6 — 3 calves at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	04	11:45 -PDT S	18:45-GMT gray whale (Er) (northbound)		Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	05	12:43 -PDT S	19:43-GMT gray whale (Er) (northbound)	Images: 2615-40	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	06	13:48 -PDT S	20:48-GMT gray whale (Er) (northbound)	Images: 2642072	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	07	15:31 -PDT SD	22:31-GMT bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	08	15:33 -PDT S	22:33-GMT gray whale (Er) (northbound)	Images: 2674-98	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 20%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	End Day	17:00 -PDT T	0:00; 4/23/2018-GMT Effort Hours 8:00		

Apr 23 Day 69 of 95

Quality Fair	Contrast Poor	CCvr 100%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	01	10:35 -PDT S	17:35-GMT gray whale (Er) (northbound)	Images: 2708-42	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	02	10:51 -PDT SD	17:51-GMT bottlenose dolphin (Tt)		Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 2	03	11:56 -PDT SD	18:56-GMT bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	04	12:33 -PDT SP	19:33-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 0	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	05	13:07 -PDT SP	20:07-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 3	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 2	06	16:09 -PDT S	23:09-GMT gray whale (Er) (northbound)		Total whales 4 — 2 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 3	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 1	End Day	16:37 -PDT T	23:37-GMT Effort Hours 7:37		

Apr 24 Day 70 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	09:00 -PDT T	16:00-GMT Effort Hours 0:00		
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Apr 25 Day 71 of 95

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	01	09:54 -PDT S	16:54-GMT gray whale (Er) (northbound)	Images: 2764-2905	Total whales 4 — 2 calves at sighting
Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	02	10:45 -PDT SP	17:45-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	13:48 -PDT SD	20:48-GMT bottlenose dolphin (Tt)		Total dolphins 7 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	04	15:15 -PDT S	22:15-GMT gray whale (Er) (northbound)	Images: 2918-83	Total whales 4 — 2 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	05	16:37 -PDT S	23:37-GMT gray whale (Er) (northbound)	Images: 2988-3051	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/26/2018-GMT Effort Hours 8:00		

Apr 26 Day 72 of 95

Quality Poor	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 2	01	09:35 -PDT S	16:35-GMT gray whale (Er) (northbound)		Total whales 3 — 0 calves at sighting
Quality Poor	Contrast Fair	CCvr 100%	Bft 1	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	02	09:52 -PDT SD	16:52-GMT common dolphin, species not determined		≈Total dolphins 50 — calves not determined
Quality Fair	Contrast Fair	CCvr 100%	Bft 2	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	03	10:51 -PDT SD	17:51-GMT common dolphin, species not determined		≈Total dolphins 50 — calves not determined
Quality Fair	Contrast Fair	CCvr 80%	Bft 2	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 2	04	11:10 -PDT S	18:10-GMT gray whale (Er) (northbound)	Images: 3053-3104	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	05	11:38 -PDT S	18:38-GMT gray whale (Er) (northbound)	Images: 3106-41	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 80%	Bft 3	Bft Mix 0-1-2	Horiz - Vis Fuzzy / 3	06	12:56 -PDT SD	19:56-GMT bottlenose dolphin (Tt)		Total dolphins 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 100%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	07	13:03 -PDT SD	20:03-GMT common dolphin, species not determined		≈Total dolphins 1500 — calves not determined
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	08	15:27 -PDT SP	22:27-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/27/2018-GMT Effort Hours 8:00		

Apr 27 Day 73 of 95

Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	01	09:02 -PDT SP	16:02-GMT harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	02	09:04 -PDT SD	16:04-GMT common dolphin, species not determined		≈Total dolphins 1000 — calves not determined
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	03	09:53 -PDT SD	16:53-GMT common dolphin, species not determined		≈Total dolphins 3000 — calves not determined
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	04	10:48 -PDT S	17:48-GMT gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	05	14:36 -PDT S	21:36-GMT gray whale (Er) (northbound)	Images: 3171-92	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	06	15:36 -PDT SD	22:36-GMT bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 4/28/2018-GMT Effort Hours 8:00		

Apr 28 Day 74 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	01	09:03 -PDT SD	16:03-GMT Pacific white-sided dolphin (Lo)	Images: 3206-13	≈Total dolphins 4 — 0 calves at sighting
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Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis				
Fair	Fair	0%	2	2-3	Fuzzy / 3	02	09:06 -PDT	16:06-GMT	
							SW	unidentified large whale	Total whales 2 — nd calves at sighting
Fair	Fair	0%	2	2-3	Fuzzy / 3	03	09:26 -PDT	16:26-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	0%	2	2-3	Fuzzy / 3	04	09:55 -PDT	16:55-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3	05	11:23 -PDT	18:23-GMT	
							S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	0%	3	3-4	Fuzzy / 3	06	11:26 -PDT	18:26-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 7 — 0 calves at sighting
Fair	Fair	0%	5	5-6	Fuzzy / 3	End	11:41 -PDT	18:41-GMT	
						Day	T	Effort Hours 2:41	

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Fair	Fair	0%	2	1-2	Fuzzy / 3	01	09:43 -PDT	16:43-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 60 — calves not determined
Fair	Fair	0%	3	2-3	Fuzzy / 3	02	12:43 -PDT	19:43-GMT	
							SD	Pacific white-sided dolphin (Lo)	≈Total dolphins 8 — nd calves at sighting
Fair	Fair	0%	5	3-4-5	Fuzzy / 3	End	13:35 -PDT	20:35-GMT	
						Day	T	Effort Hours 4:35	

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Fair	Fair	60%	2	1-2	Fuzzy / 3	01	09:03 -PDT	16:03-GMT	
							SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Fair	Fair	60%	2	1-2	Fuzzy / 3	02	09:22 -PDT	16:22-GMT	
							SD	Pacific white-sided dolphin (Lo)	≈Total dolphins 15 — nd calves at sighting
Fair	Fair	60%	2	1-2	Fuzzy / 3	03	09:48 -PDT	16:48-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Fair	Fair	100%	3	2-3-4	Fuzzy / 3	04	13:54 -PDT	20:54-GMT Images: 333-58	
							S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Fair	Fair	100%	5	4-5	Fuzzy / 3	End	15:13 -PDT	22:13-GMT	
						Day	T	Effort Hours 6:13	

May 01 Day 77 of 95

						End	09:00 -PDT	16:00-GMT	
						Day	T	Effort Hours 0:00	

May 02 Day 78 of 95

Fair	Fair	0%	1	1-2	Fuzzy / 3	01	09:15 -PDT	16:15-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Fair	Fair	0%	1	1-2	Fuzzy / 3	02	10:41 -PDT	17:41-GMT Images: 3369-3541	
							S	gray whale (Er) (northbound)	Total whales 6 — 3 calves at sighting
Fair	Fair	0%	2	1-2	Fuzzy / 3	03	11:03 -PDT	18:03-GMT	
							SD	common dolphin, species not determined	≈Total dolphins 250 — calves not determined
Fair	Fair	20%	2	1-2	Fuzzy / 3	04	11:50 -PDT	18:50-GMT Images: 3543-3555	
							SD	common dolphin, species not determined	≈Total dolphins 1500 — calves not determined
Fair	Fair	40%	2	1-2	Fuzzy / 3	05	12:04 -PDT	19:04-GMT	
							SD	bottlenose dolphin (Tt)	Total dolphins 1 — 0 calves at sighting
Fair	Fair	100%	1	0-1	Fuzzy / 3	06	12:43 -PDT	19:43-GMT	
							SD	Pacific white-sided dolphin (Lo)	≈Total dolphins 3 — 0 calves at sighting
Poor	Poor	100%	3	2-3	Fuzzy / 3	07	14:33 -PDT	21:33-GMT Images: 3577-3659	
							S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Poor	Contrast Poor	CCvr 60%	Bft 4	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	08	16:01 -PDT SD	23:01-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Poor	Contrast Poor	CCvr 60%	Bft 4	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	09	16:38 -PDT SP	23:38-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Poor	Contrast Poor	CCvr 60%	Bft 4	Bft Mix 2-3-4	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 5/3/2018-GMT Effort Hours 8:00	

May 03 Day 79 of 95

Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 1-2-3	Horiz - Vis Fuzzy / 3	01	11:09 -PDT S	18:09-GMT gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	02	13:02 -PDT S	20:02-GMT gray whale (Er) (northbound)	Total whales 1 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 3	Bft Mix 3-4	Horiz - Vis Fuzzy / 3	03	15:37 -PDT S	22:37-GMT Images: 3677-3710 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	04	16:45 -PDT SD	23:45-GMT bottlenose dolphin (Tt)	Total dolphins 6 — 1 calf at sighting
Quality Fair	Contrast Fair	CCvr 0%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 5/4/2018-GMT Effort Hours 8:00	

May 04 Day 80 of 95

Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	01	09:00 -PDT S	16:00-GMT Images: 3712-3817 gray whale (Er) (northbound)	Total whales 6 — 3 calves at sighting
Quality Fair	Contrast Fair	CCvr 20%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	02	09:44 -PDT SD	16:44-GMT common dolphin, species not determined	≈Total dolphins 50 — calves not determined
Quality Fair	Contrast Fair	CCvr 20%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	03	10:00 -PDT S	17:00-GMT Images: 3873-3911 gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	04	11:29 -PDT SD	18:29-GMT Images: 3915-24 bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	05	11:39 -PDT SD	18:39-GMT Images: 3926-32 bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	06	11:54 -PDT SD	18:54-GMT Images: 3935-53 bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	07	13:58 -PDT SD	20:58-GMT Images: 3955-3971 bottlenose dolphin (Tt)	Total dolphins 5 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	08	15:01 -PDT SD	22:01-GMT bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 60%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 5/5/2018-GMT Effort Hours 8:00	

May 05 Day 81 of 95

Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	01	09:37 -PDT SO	16:37-GMT southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 3	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	02	10:12 -PDT SD	17:12-GMT common dolphin, species not determined	≈Total dolphins 2000 — calves not determined
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	03	10:46 -PDT S	17:46-GMT Images: 3984-4007 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	04	12:58 -PDT S	19:58-GMT Images: 4009-91 gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	05	13:14 -PDT S	20:14-GMT gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 80%	Bft 2	Bft Mix 2-3	Horiz - Vis Fuzzy / 3	06	15:57 -PDT SP	22:57-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:00 -PDT	0:00; 5/6/2018-GMT
Fair	Poor	80%	2	2-3	Fuzzy / 3	Day	T	Effort Hours 8:00

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Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:02 -PDT	16:02-GMT	
Fair	Poor	100%	2	1-2	Fuzzy / 3		SO	southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	09:21 -PDT	16:21-GMT	Images: 4165-8
Fair	Poor	100%	2	1-2	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	11:34 -PDT	18:34-GMT	
Fair	Poor	100%	1	0-1	Fuzzy / 3		SD	common dolphin, species not determined	≈Total dolphins 2000 — calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	12:25 -PDT	19:25-GMT	Images: 4170-6
Fair	Poor	100%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	14:38 -PDT	21:38-GMT	
Fair	Fair	40%	0	0-1	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	14:48 -PDT	21:48-GMT	Images: 4178-4240
Fair	Fair	40%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	07	15:31 -PDT	22:31-GMT	Images: 4246-4314
Fair	Fair	40%	0	0-1	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:00 -PDT	0:00; 5/7/2018-GMT	
Fair	Fair	40%	0	0-1	Fuzzy / 3	Day	T	Effort Hours 8:00	

May 07 Day 83 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:00 -PDT	16:00-GMT	Images: 4318-73
Fair	Fair	20%	1	1-2	Fuzzy / 2		S	gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	10:02 -PDT	17:02-GMT	Images: 4381-92
Poor	Poor	60%	1	1-2	Fuzzy / 1		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	12:14 -PDT	19:14-GMT	
Poor	Poor	100%	1	0-1	Fuzzy / 1.7		SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	12:28 -PDT	19:28-GMT	Images: 4394-4402
Poor	Poor	100%	1	0-1	Fuzzy / 1.7		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	13:07 -PDT	20:07-GMT	
Poor	Poor	100%	1	0-1	Fuzzy / 1.7		SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	13:10 -PDT	20:10-GMT	
Poor	Poor	100%	1	0-1	Fuzzy / 1.7		SD	bottlenose dolphin (Tt)	Total dolphins 4 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	07	14:05 -PDT	21:05-GMT	Images: 4405-28
Poor	Poor	100%	1	0-1	Fuzzy / 1.7		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	08	15:47 -PDT	22:47-GMT	
Poor	Poor	100%	1	0-1	Fuzzy / 1.7		SD	common dolphin, species not determined	≈Total dolphins 300 — calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	15:54 -PDT	22:54-GMT	
Poor	Poor	100%	1	0-1	Fuzzy / <1	Day	T	Effort Hours 4:58	

May 08 Day 84 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	09:00 -PDT	16:00-GMT
						Day	T	Effort Hours 0:00

May 09 Day 85 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	10:38 -PDT	17:38-GMT	
Fair	Fair	80%	0	0-1	Fuzzy / 3		SO	southern sea otter (EI)	Total otters 1 — 0 Pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	11:40 -PDT	18:40-GMT	
Fair	Fair	40%	1	1-2	Fuzzy / 3		SD	common dolphin, species not determined	≈Total dolphins 250 — calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	12:41 -PDT	19:41-GMT	
Fair	Fair	40%	1	1-2	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:00 -PDT	0:00; 5/10/2018-GMT
Fair	Fair	100%	2	1-2	Fuzzy / 3	Day	T	Effort Hours 6:46

May 10 Day 86 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:31 -PDT	16:31-GMT	Images: 4528-4643	
Fair	Poor	0%	4	3-4	Fuzzy / 2	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	12:11 -PDT	19:11-GMT	Images: 4653-79	
Fair	Fair	0%	3	2-3	Fuzzy / 2	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	14:58 -PDT	21:58-GMT	Images: 4688-4712	
Fair	Fair	20%	3	3-4	Fuzzy / 2	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:00 -PDT	0:00; 5/11/2018-GMT		
Fair	Fair	20%	3	3-4	Fuzzy / 2	Day	T	Effort Hours 8:00		

May 11 Day 87 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:59 -PDT	16:59-GMT		
Poor	Poor	100%	2	1-2	Fuzzy / 2	SP		harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	12:25 -PDT	19:25-GMT	Images: 4718-48	
Poor	Poor	100%	2	1-2	Fuzzy / 2	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	13:08 -PDT	20:08-GMT	Images: 4750-5	
Poor	Poor	100%	2	1-2	Fuzzy / 2	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	14:12 -PDT	21:12-GMT		
Poor	Poor	100%	2	1-2	Fuzzy / 2	SD		bottlenose dolphin (Tt)		Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	16:35 -PDT	23:35-GMT	Images: 4757-4801	
Poor	Poor	100%	2	1-2	Fuzzy / 2	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	16:48 -PDT	23:48-GMT	Images: 4756	
Poor	Poor	100%	2	1-2	Fuzzy / 2	SD		bottlenose dolphin (Tt)		Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:01 -PDT	0:01; 5/12/2018-GMT		
Poor	Poor	100%	2	1-2	Fuzzy / 2	Day	T	Effort Hours 8:01		

May 12 Day 88 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:45 -PDT	16:45-GMT		
Fair	Poor	100%	0	0-1	Fuzzy / 3	SP		harbor seal (Pv)		Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	10:12 -PDT	17:12-GMT	Images: 4815-73	
Fair	Poor	100%	0	0-1	Fuzzy / 3	SD		common dolphin, long-beaked (Dc)		Totals not indicated
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	16:38 -PDT	23:38-GMT	Images: 4874-8	
Good	Good	0%	2	1-2	Fuzzy / 3	SD		bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:00 -PDT	0:00; 5/13/2018-GMT		
Good	Good	0%	2	1-2	Fuzzy / 3	Day	T	Effort Hours 8:01		

May 13 Day 89 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	10:44 -PDT	17:44-GMT		
Poor	Poor	100%	1	0-1	Fuzzy / 3	SD		bottlenose dolphin (Tt)		Total dolphins 2 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	13:14 -PDT	20:14-GMT	Images: 4887-4903	
Good	Good	20%	1	0-1	Fuzzy / 3	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	16:54 -PDT	23:54-GMT	Images: 4950-82	
Good	Good	20%	4	3-4	Fuzzy / 3	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End	17:12 -PDT	0:12; 5/14/2018-GMT		
Good	Good	20%	4	3-4	Fuzzy / 3	Day	T	Effort Hours 8:12		

May 14 Day 90 of 95

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	12:37 -PDT	19:37-GMT	Images: 4983-94	
Poor	Fair	0%	4	3-4	Fuzzy / 3	S		gray whale (Er) (northbound)		Total whales 2 — 1 calf at sighting

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	Time	GMT	
Poor	Fair	0%	5	3-4	Fuzzy / 3	T	14:16 -PDT	21:16-GMT	Effort Hours 5:16
May 15 Day 91 of 95									
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	Time	GMT	
						T	09:00 -PDT	16:00-GMT	Effort Hours 0:00
May 16 Day 92 of 95									
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:23 -PDT	16:23-GMT	
Fair	Fair	0%	1	0-1	Fuzzy / 3		SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	09:59 -PDT	16:59-GMT	
Fair	Fair	0%	1	0-1	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	10:27 -PDT	17:27-GMT	
Fair	Fair	0%	1	0-1	Fuzzy / 3		SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	Time	GMT	
Not Acceptable	Fair	0%	5	5	Fuzzy / 3	T	13:23 -PDT	20:23-GMT	Effort Hours 4:23
May 17 Day 93 of 95									
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:31 -PDT	16:31-GMT	
Fair	Fair	0%	1	0-1	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 6 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	11:41 -PDT	18:41-GMT	
Fair	Fair	20%	1	0-1	Fuzzy / 3		SD	common dolphin, long-beaked (Dc)	Totals not indicated
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	13:36 -PDT	20:36-GMT	
Fair	Fair	20%	0	0-1	Fuzzy / 3		SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	16:58 -PDT	23:58-GMT	
Fair	Fair	0%	2	2-3	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	Time	GMT	
Fair	Fair	0%	2	2-3	Fuzzy / 3	T	17:00 -PDT	0:00; 5/18/2018-GMT	Effort Hours 8:00
May 18 Day 94 of 95									
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:03 -PDT	16:03-GMT	
Fair	Fair	20%	2	1-2	Fuzzy / 3		SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	02	09:16 -PDT	16:16-GMT	
Fair	Fair	20%	3	2-3	Fuzzy / 3		SP	harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	03	09:24 -PDT	16:24-GMT	
Fair	Fair	20%	3	2-3	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 2 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	04	11:19 -PDT	18:19-GMT	
Fair	Fair	60%	2	1-2	Fuzzy / 3		SD	common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	05	12:46 -PDT	19:46-GMT	
Fair	Fair	100%	2	1-2	Fuzzy / 3		SD	common dolphin, species not determined	≈Total dolphins 1500 — calves not determined
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	06	14:45 -PDT	21:45-GMT	
Fair	Fair	40%	3	2-3	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 4 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	07	15:16 -PDT	22:16-GMT	Images: 5092-5208
Fair	Fair	40%	3	2-3	Fuzzy / 3		S	gray whale (Er) (northbound)	Total whales 2 — 1 calf at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	08	15:48 -PDT	22:48-GMT	
Fair	Fair	40%	3	2-3	Fuzzy / 3		SD	bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	End Day	Time	GMT	
Fair	Fair	40%	3	2-3	Fuzzy / 3	T	17:00 -PDT	0:00; 5/19/2018-GMT	Effort Hours
May 19 Day 95 of 95									
Quality	Contrast	CCvr	Bft	Bft Mix	Horiz - Vis	01	09:18 -PDT	16:18-GMT	
Fair	Fair	20%	1	0-1	Fuzzy / 3		SD	common dolphin, species not determined	≈Total dolphins 1500 — calves not determined

Sighting Codes S=gray whales, north SW=whales, other SD=dolphins SP=pinnipeds SO=sea otters V=vessels T=Terminate day

2018 All Sighting Numbers, Raw

Quality Fair	Contrast Fair	CCvr 60%	Bft 2	Bft Mix 1-2	Horiz - Vis Fuzzy / 3	02	11:32 -PDT SD	18:32-GMT bottlenose dolphin (Tt)	Total dolphins 4 — 1 calf at sighting
Quality Fair	Contrast Poor	CCvr 100%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	03	11:36 -PDT SD	18:36-GMT common dolphin, species not determined	≈Total dolphins 1000 — calves not determined
Quality Fair	Contrast Fair	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	04	13:40 -PDT SD	20:40-GMT common dolphin, species not determined	≈Total dolphins 500 — calves not determined
Quality Fair	Contrast Fair	CCvr 100%	Bft 0	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	05	14:31 -PDT SD	21:31-GMT bottlenose dolphin (Tt)	Total dolphins 3 — 0 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	06	15:29 -PDT SP	22:29-GMT harbor seal (Pv)	Total seals 1 — 0 pups at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	07	16:05 -PDT S	23:05-GMT Images: 5383-5499 gray whale (Er) (northbound)	Total whales 6 — 3 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	08	16:42 -PDT S	23:42-GMT gray whale (Er) (northbound)	Total whales 4 — 2 calves at sighting
Quality Fair	Contrast Fair	CCvr 40%	Bft 1	Bft Mix 0-1	Horiz - Vis Fuzzy / 3	End Day	17:00 -PDT T	0:00; 5/20/2018-GMT Effort Hours 8:00	