



GRAY WHALES COUNT

A JOINT EDUCATION AND RESEARCH PROJECT OF
UCSB'S COAL OIL POINT RESERVE, GOLETA, CA +
AMERICAN CETACEAN SOCIETY—CHANNEL ISLANDS, CA +
CASCADIA RESEARCH COLLECTIVE, OLYMPIA, WA

2007 Sighting Reports

Species Totals with Sighting and Tracking, On-Effort, \leq Beaufort 4

Er Gray whale (northbound)

Total: 540 Calves: 50 Number of Sightings: 290

Daily Totals	Sighting Number	Qual-Beau Time	Blow / Body Position	Direction	Behaviors	Holly / Buoys
Feb 01 Day 4 of 105	Total 1 Calves 0		Er Gray whale (northbound)			
	03	Good - 1	Total 1 — 0 Calves at sighting		<i>Disappeared</i>	
		12:23:00 PST 20:23-GMT	Body 177° / 495 m	Direction: West	Slow travel	ND / ND
		<i>disappeared - very small whale - no blows, 2 surfaces</i>				
Feb 04 Day 7 of 105	Total 5 Calves 0		Er Gray whale (northbound)			
	04	Excellent - 2	Total 4 — 0 Calves at sighting			
		12:15:00 PST 20:15-GMT	Blow 138° / 2,553 m	Direction: West	Slow travel • Fluke	
		12:20:00 PST 20:20-GMT	Blow 148° / 2,094 m	Direction: West	Slow travel • Fluke	
		12:27:00 PST 20:27-GMT	Blow 165° / 1,546 m	Direction: West	Slow travel • Fluke	
		12:31:00 PST 20:31-GMT	Blow 181° / 1,294 m	Direction: West	Slow travel • Fluke	
		12:34:00 PST 20:34-GMT	Blow 197° / 1,228 m	Direction: West	Slow travel • Fluke	
		12:39:00 PST 20:39-GMT	Blow 214° / 1,294 m	Direction: West	Slow travel • Fluke	Inside / Outside

KEY: Quality is Observation Quality, determined from Weather + Sea Condition. Position of animal is represented by true bearing and distance in meters from observation platform on Counter Point.

ND or nd = not determined; and NI or ni = not indicated.

part of 2007 Gray Whales Count, Survey Report © Gray Whales Count, 2016,
prepared by Michael H Smith, Project Coordinator, Gray Whales Count, Santa Barbara, California, USA.

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Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

05	Good - 3	Total 1 — 0 Calves at sighting	<i>Disappeared</i>
	14:07:00 PST 22:07-GMT	Blow 155° / 871 m Direction: West	Slow travel ND / ND
<i>Lost in "Black Hole" - actually much glare</i>			

Feb 07 Total 1 Calves 0
Day 10 of 105

Er Gray whale (northbound)

10	Good - 2	Total 1 — 0 Calves at sighting	
	11:20:00 PST 19:20-GMT	Blow 128° / 1,369 m Direction: West	Slow travel
	11:26:00 PST 19:26-GMT	Blow 146° / 1,228 m Direction: West	Slow travel
	11:32:00 PST 19:32-GMT	Blow 185° / 761 m Direction: West	Slow travel
	11:33:00 PST 19:33-GMT	Blow 194° / 715 m Direction: West	Slow travel
	11:38:00 PST 19:38-GMT	Body 218° / 761 m Direction: West	Slow travel Inside / ND
<i>at oil seep - passed by another seep + boat (sighting #3) heading near whale - snorkling</i>			

Feb 09 Total 1 Calves 0
Day 12 of 105

Er Gray whale (northbound)

02	Fair - 0	Total 1 — 0 Calves at sighting	
	9:15:00 PST 17:15-GMT	Body 133° / 675 m Direction: West	Slow travel
	9:18:00 PST 17:18-GMT	Blow 167° / 356 m Direction: West	Slow travel
	9:23:00 PST 17:23-GMT	Body 241° / 505 m Direction: West	Slow travel
	9:27:00 PST 17:27-GMT	Body 271° / 761 m Direction: West	Slow travel
	9:32:00 PST 17:32-GMT	ni 288° / 1,369 m Direction: West	Slow travel Inside / Inside
<i>Seemed to vary pattern - snorkel at buoys</i>			

Feb 10 Total 1 Calves 0
Day 13 of 105

Er Gray whale (northbound)

05	Good - 1	Total 1 — 0 Calves at sighting	
	14:36:00 PST 22:36-GMT	Body 109° / 2,553 m Direction: West	Slow travel
	14:38:00 PST 22:38-GMT	Body 110° / 2,094 m Direction: West	Slow travel • Fluke
	14:46:00 PST 22:46-GMT	Blow 116° / 1,369 m Direction: West	Slow travel • Fluke
	14:53:00 PST 22:53-GMT	Body 145° / 812 m Direction: West	Slow travel
	14:55:00 PST 22:55-GMT	Body 153° / 639 m Direction:	Slow travel • Fluke

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

14:59:00 PST 22:59-GMT	ni 196° / 551 m Direction: West	Slow travel	
15:02:00 PST 23:02-GMT	Body 223° / 675 m Direction: West	Slow travel	
15:03:00 PST 23:03-GMT	Body 233° / 761 m Direction: West	Slow travel	
15:05:00 PST 23:05-GMT	Blow 242° / 840 m Direction: West	Slow travel	
15:07:00 PST 23:07-GMT	Blow 250° / 939 m Direction: West	Slow travel • Fluke	Inside / Outside

Feb 15 Total 1 Calves 0
Day 18 of 105

Er Gray whale (northbound)

13 Excellent - 1 Total 1 — 0 Calves at sighting

12:29:00 PST 20:29-GMT	Blow 159° / 2,553 m Direction: West	Slow travel • Fluke	
12:36:00 PST 20:36-GMT	Blow 176° / 2,094 m Direction: West	Slow travel • Fluke	
12:42:00 PST 20:42-GMT	Blow 193° / 2,094 m Direction: West	Slow travel • Fluke	
12:49:00 PST 20:49-GMT	Blow 207° / 2,553 m Direction: West	Slow travel	
13:02:00 PST 21:02-GMT	Blow 231° / 2,872 m Direction: West	Slow travel	
13:13:00 PST 21:13-GMT	Blow 241° / 3,288 m Direction: East	Slow travel	Outside / Outside

just outside Holly

Feb 16 Total 2 Calves 0
Day 19 of 105

Er Gray whale (northbound)

12 Excellent - 1 Total 1 — 0 Calves at sighting

11:03:00 PST 19:03-GMT	Blow 120° / 840 m Direction: West	Slow travel	
11:08:00 PST 19:08-GMT	Blow 140° / 485 m Direction: West	Slow travel • Rolling	
11:12:00 PST 19:12-GMT	Blow 206° / 318 m Direction: West	Slow travel	
11:16:00 PST 19:16-GMT	Body 234° / 485 m Direction: West	Slow travel	
11:20:00 PST 19:20-GMT	Body 271° / 715 m Direction: West	Slow travel	
11:22:00 PST 19:22-GMT	Blow 277° / 1,019 m Direction: West	Slow travel	Inside / Inside

Whale approached buoys - oil barge at site - went inside buoys

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

16	Excellent - 0	Total 1 — 0 Calves at sighting	
16:03:00 PST 0:03; 2/17/2007-GMT	Body 180° / 607 m	Direction: West	Slow travel • Fluke
16:07:00 PST 0:07; 2/17/2007-GMT	Blow 229° / 715 m	Direction: East	Slow travel <i>swimming around</i>
16:10:00 PST 0:10; 2/17/2007-GMT	Blow 218° / 761 m	Direction: West	Slow travel
16:12:00 PST 0:12; 2/17/2007-GMT	Blow 231° / 675 m	Direction: West	Slow travel
16:14:00 PST 0:14; 2/17/2007-GMT	Blow 243° / 715 m	Direction: West	Slow travel
16:17:00 PST 0:17; 2/17/2007-GMT	Blow 253° / 1,019 m	Direction: West	Slow travel
16:20:00 PST 0:20; 2/17/2007-GMT	Blow 257° / 1,228 m	Direction: West	Slow travel
16:23:00 PST 0:23; 2/17/2007-GMT	Blow 263° / 1,369 m	Direction: West	Slow travel
16:26:00 PST 0:26; 2/17/2007-GMT	Blow 267° / 2,094 m	Direction: West	Slow travel Inside / Outside

Feb 17 Total 1 Calves 0
Day 20 of 105

01	Good - 1	Total 1 — 0 Calves at sighting	
10:16:00 PST 18:16-GMT	Blow 123° / 1,113 m	Direction: West	Slow travel
10:22:00 PST 18:22-GMT	Blow 146° / 812 m	Direction: West	Slow travel
10:25:00 PST 18:25-GMT	Blow 172° / 675 m	Direction: West	Slow travel
10:26:00 PST 18:26-GMT	Blow 189° / 607 m	Direction: West	Slow travel
10:33:00 PST 18:33-GMT	Body 243° / 1,019 m	Direction: West	Slow travel Inside / Outside

Feb 19 Total 1 Calves 0
Day 22 of 105

10	Poor - 4	Total 1 — 0 Calves at sighting	
14:01:00 PST 22:01-GMT	Blow 121° / 1,546 m	Direction: West	Slow travel <i>juvenile whale</i>
14:10:00 PST 22:10-GMT	Blow 144° / 1,369 m	Direction: West	Slow travel
14:15:00 PST 22:15-GMT	Blow 186° / 639 m	Direction: West	Slow travel
14:21:00 PST 22:21-GMT	Blow 234° / 675 m	Direction: West	Slow travel Inside / ND

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

Feb 20 Total 3 Calves 0
Day 23 of 105

Er Gray whale (northbound)

06	Good - 1	Total 1 — 0 Calves at sighting	
	10:48:00 PST 18:48-GMT	Blow 129° / 2,094 m Direction: West	Slow travel
	10:57:00 PST 18:57-GMT	Blow 166° / 1,546 m Direction: West	Slow travel
	10:58:00 PST 18:58-GMT	Blow 167° / 1,369 m Direction: West	Slow travel • Fluke
	11:10:00 PST 19:10-GMT	Blow 204° / 1,019 m Direction: West	Slow travel ND / ND
	<i>2 large blows, then two weak blows - possibly a juvenile</i>		
18	Fair - 1	Total 1 — 0 Calves at sighting	
	15:50:00 PST 23:50-GMT	Body 169° / 715 m Direction: West	Slow travel
	15:51:00 PST 23:51-GMT	Body 173° / 607 m Direction: West	Slow travel
	16:04:00 PST 0:04; 2/21/2007-GMT	Body 255° / 1,546 m Direction:	Slow travel Inside / Outside
20	Fair - 1	Total 1 — 0 Calves at sighting	
	16:55:00 PST 0:55; 2/21/2007-GMT	Blow 102° / 3,288 m Direction: West	Slow travel
	17:05:00 PST 1:05; 2/21/2007-GMT	Blow 103° / 2,872 m Direction: West	Slow travel
	17:11:00 PST 1:11; 2/21/2007-GMT	Blow 108° / 2,553 m Direction: West	Slow travel
	17:28:00 PST 1:28; 2/21/2007-GMT	Blow 120° / 2,872 m Direction: West	Slow travel
	17:31:00 PST 1:31; 2/21/2007-GMT	Blow 121° / 2,553 m Direction: West	Slow travel • Fluke ND / ND

Feb 21 Total 3 Calves 0
Day 24 of 105

Er Gray whale (northbound)

02	Fair - 1	Total 1 — 0 Calves at sighting	
	9:27:00 PST 17:27-GMT	Body 164° / 505 m Direction: West	Slow travel • Fluke
	9:33:00 PST 17:33-GMT	Body 236° / 715 m Direction: West	Slow travel
	9:36:00 PST 17:36-GMT	Body 258° / 761 m Direction: West	Slow travel • Fluke Inside / ND
	<i>Never saw a blow, only views of body.</i>		
12	Good - 2	Total 1 — 0 Calves at sighting	
	12:28:00 PST 20:28-GMT	Blow 159° / 840 m Direction: West	Slow travel
	12:30:00 PST 20:30-GMT	Blow 168° / 840 m Direction: West	Slow travel • Fluke

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

12:32:00 PST 20:32-GMT	Body 171° / 1,113 m Direction: West	Slow travel • Breach	
12:40:00 PST 20:40-GMT	Blow 197° / 1,546 m Direction: West	Slow travel	
12:41:00 PST 20:41-GMT	Blow 206° / 1,546 m Direction: West	Slow travel	
12:43:00 PST 20:43-GMT	Blow 219° / 1,546 m Direction: West		
12:45:00 PST 20:45-GMT	Blow 232° / 1,778 m Direction: West	Slow travel • Fluke	
12:48:00 PST 20:48-GMT	Body 237° / 2,094 m Direction: West	Slow travel	
12:56:00 PST 20:56-GMT	Blow 250° / 2,553 m Direction: West	Slow travel	Inside / Outside

Whale took odd course - may be more than one Er

18 Fair - 1 Total 1 — 0 Calves at sighting

15:10:00 PST 23:10-GMT	Body 144° / 1,228 m Direction: West	Slow travel	
15:17:00 PST 23:17-GMT	Body 198° / 812 m Direction: West	Slow travel • Fluke	
15:33:00 PST 23:33-GMT	Blow 261° / 2,553 m Direction: West	Slow travel	Inside / Outside

Feb 22 Total 1 Calves 0
Day 25 of 105

Er Gray whale (northbound)

01 Fair - 3 Total 1 — 0 Calves at sighting

9:06:00 PST 17:06-GMT	Blow 260° / 2,872 m Direction: West	Slow travel	
<i>Observed blows prior to 09:00; crew boat (not entered in Vessel Log) near whale</i>			
9:21:00 PST 17:21-GMT	Blow 267° / 3,288 m Direction: West	Slow travel • Fluke	ND / Outside

Feb 24 Total 4 Calves 0
Day 27 of 105

Er Gray whale (northbound)

01 Excellent - 0 Total 3 — 0 Calves at sighting

9:05:00 PST 17:05-GMT	Blow 151° / 1,778 m Direction: West	Slow travel	
9:09:00 PST 17:09-GMT	Blow 162° / 1,778 m Direction: West	Slow travel	
9:12:00 PST 17:12-GMT	Blow 174° / 1,778 m Direction: West	Slow travel	
9:14:00 PST 17:14-GMT	Body 176° / 1,778 m Direction: West	Slow travel • Fluke	
9:16:00 PST 17:16-GMT	Blow 187° / 1,546 m Direction: West	Slow travel	
9:27:00 PST 17:27-GMT	Body 231° / 2,094 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

9:32:00 PST 17:32-GMT	Blow 244° / 2,553 m	Direction: West	Slow travel • Fluke	
9:48:00 PST 17:48-GMT	Blow 259° / 2,553 m	Direction: West	Slow travel	Inside / Outside

Condor on whales

11	Excellent - 0	Total 1 — 0 Calves at sighting		
10:39:00 PST 18:39-GMT	Blow 120° / 840 m	Direction: West	Slow travel	
10:46:00 PST 18:46-GMT	Blow 119° / m	Direction: West	Slow travel	
10:47:00 PST 18:47-GMT	Blow 120° / 1,369 m	Direction: West	Slow travel	
10:58:00 PST 18:58-GMT	Body 150° / 495 m	Direction: West	Slow travel	
11:00:00 PST 19:00-GMT	Body 169° / 418 m	Direction: West	Slow travel	
11:02:00 PST 19:02-GMT	Body 196° / 404 m	Direction: West	Slow travel	
11:06:00 PST 19:06-GMT	Body 228° / 485 m	Direction: West	Slow travel	
11:09:00 PST 19:09-GMT	Blow 250° / 761 m	Direction: West	Slow travel	
11:11:00 PST 19:11-GMT	Blow 253° / 812 m	Direction: West	Slow travel	Inside / ND

Feb 25 Total 3 Calves 0
Day 28 of 105

Er Gray whale (northbound)

02	Fair - 4	Total 1 — 0 Calves at sighting		
9:15:00 PST 17:15-GMT	Blow 265° / 1,369 m	Direction: West	Slow travel • Fluke	
9:22:00 PST 17:22-GMT	Blow 270° / 2,553 m	Direction: West	Slow travel	
9:26:00 PST 17:26-GMT	Blow 272° / 2,872 m	Direction: West	Slow travel • Fluke	Inside / Outside
04	Fair - 4	Total 2 — 0 Calves at sighting		
9:39:00 PST 17:39-GMT	ni 149° / 1,778 m	Direction: West	not determined	
9:44:00 PST 17:44-GMT	Blow 168° / 1,369 m	Direction: West	Slow travel	
9:49:00 PST 17:49-GMT	Blow 197° / 1,019 m	Direction: West	Slow travel	
9:51:00 PST 17:51-GMT	Blow 206° / 1,019 m	Direction: West	Slow travel • Fluke	
9:56:00 PST 17:56-GMT	Blow 234° / 1,369 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

			9:59:00 PST 17:59-GMT	Blow 243° / 1,778 m	Direction: West	Slow travel • Fluke	Inside / Outside	
Feb 27	Total 2	Calves 0	Er Gray whale (northbound)					
Day 30 of 105								
02	Poor - 4	Total 2 — 0 Calves at sighting						
			10:48:00 PST 18:48-GMT	Blow 186° / 1,778 m	Direction: West	Slow travel • Fluke		
			10:50:00 PST 18:50-GMT	Blow 199° / 1,778 m	Direction: West	Slow travel		
			10:57:00 PST 18:57-GMT	Blow 221° / 2,094 m	Direction: West	Slow travel		
			11:06:00 PST 19:06-GMT	Blow 239° / 1,778 m	Direction: West	Slow travel	Inside / Outside	
<i>2 identified, but suspect more</i>								

Mar 01	Total 9	Calves 0	Er Gray whale (northbound)					
Day 32 of 105								
12	Fair - 4	Total 1 — 0 Calves at sighting						
			12:24:00 PST 20:24-GMT	Blow 140° / 1,778 m	Direction: West	Slow travel		
			12:29:00 PST 20:29-GMT	Blow 156° / 1,113 m	Direction: West	Slow travel		
			12:30:00 PST 20:30-GMT	Blow 167° / 1,019 m	Direction: West	Slow travel		
			12:34:00 PST 20:34-GMT	Blow 189° / 812 m	Direction: West	Slow travel		
			12:39:00 PST 20:39-GMT	Blow 218° / 1,228 m	Direction: West	Slow travel		
			12:49:00 PST 20:49-GMT	Body 240° / 2,094 m	Direction: West	Slow travel		
			12:52:00 PST 20:52-GMT	Blow 250° / 2,553 m	Direction: West	Slow travel	Inside / Outside	
14	Fair - 4	Total 1 — 0 Calves at sighting						
			12:50:00 PST 20:50-GMT	Blow 127° / 2,553 m	Direction: West	Slow travel		
			12:56:00 PST 20:56-GMT	Blow 138° / 1,778 m	Direction: West	Slow travel		
			13:02:00 PST 21:02-GMT	Body 159° / 1,228 m	Direction: West	Slow travel		
			13:05:00 PST 21:05-GMT	Blow 169° / 1,228 m	Direction: West	Slow travel		
			13:32:00 PST 21:32-GMT	Blow 233° / 2,553 m	Direction: West	Slow travel		
			13:50:00 PST 21:50-GMT	Blow 259° / 2,553 m	Direction: West	Slow travel	Inside / Outside	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

17	Fair - 4	Total 2 — 0 Calves at sighting	
15:18:00 PST 23:18-GMT	Blow 146° / 1,294 m	Direction: West	Slow travel
15:21:00 PST 23:21-GMT	Blow 154° / 1,369 m	Direction: West	Slow travel
15:23:00 PST 23:23-GMT	Body 160° / 1,294 m	Direction: West	Slow travel
15:26:00 PST 23:26-GMT	Blow 167° / 1,228 m	Direction: West	Slow travel
15:28:00 PST 23:28-GMT	Blow 175° / 1,228 m	Direction: West	Slow travel
15:30:00 PST 23:30-GMT	Blow 180° / 1,294 m	Direction: West	Slow travel
15:33:00 PST 23:33-GMT	Blow 199° / 1,369 m	Direction: West	Slow travel
15:37:00 PST 23:37-GMT	Blow 209° / 1,369 m	Direction: West	Slow travel
15:44:00 PST 23:44-GMT	Blow 229° / 1,019 m	Direction: West	Slow travel
			Inside / Outside

Smaller whales, probably juveniles

18	Fair - 4	Total 5 — 0 Calves at sighting	
16:53:00 PST 0:53; 3/2/2007-GMT	Blow 169° / 2,872 m	Direction: West	Slow travel
16:55:00 PST 0:55; 3/2/2007-GMT	Blow 171° / 2,872 m	Direction: West	Slow travel
16:57:00 PST 0:57; 3/2/2007-GMT	Body 173° / 2,872 m	Direction: West	Slow travel • Fluke
16:58:00 PST 0:58; 3/2/2007-GMT	Blow 175° / 2,872 m	Direction: West	Slow travel
16:59:00 PST 0:59; 3/2/2007-GMT	Blow 175° / 2,872 m	Direction: West	Slow travel
17:07:00 PST 1:07; 3/2/2007-GMT	Blow 189° / 2,872 m	Direction: West	Slow travel
			ND / ND

Mar 02 Total 6 Calves 0
Day 33 of 105

Er Gray whale (northbound)

07	Good - 3	Total 1 — 0 Calves at sighting	
9:50:00 PST 17:50-GMT	Blow 104° / 2,094 m	Direction: West	Slow travel
			<i>Appears to be right next to kelp harvester</i>
9:52:00 PST 17:52-GMT	Blow 107° / 2,094 m	Direction: West	Slow travel • Fluke
9:56:00 PST 17:56-GMT	Blow 111° / 1,778 m	Direction: West	Slow travel
10:02:00 PST 18:02-GMT	Blow 119° / 871 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10:09:00 PST 18:09-GMT	Blow 144° / 485 m Direction: West	Slow travel
10:11:00 PST 18:11-GMT	Blow 171° / 378 m Direction: West	Slow travel
10:14:00 PST 18:14-GMT	Blow 223° / 1,778 m Direction: West	Slow travel
10:18:00 PST 18:18-GMT	Body 263° / 715 m Direction: West	Slow travel

Inside / ND

Sonar from Garibaldi in area

18	Good - 3	Total 4 — 0 Calves at sighting
13:02:00 PST 21:02-GMT	Blow 146° / 4,712 m Direction: West	Slow travel
13:08:00 PST 21:08-GMT	Blow 150° / 4,712 m Direction: West	Slow travel
13:12:00 PST 21:12-GMT	Blow 150° / 4,712 m Direction: West	Slow travel
13:13:00 PST 21:13-GMT	Body 150° / 4,712 m Direction: West	Slow travel • Fluke
13:18:00 PST 21:18-GMT	Blow 152° / 4,712 m Direction: West	Slow travel
13:19:00 PST 21:19-GMT	Body 152° / 4,712 m Direction: West	Slow travel • Fluke
13:24:00 PST 21:24-GMT	Blow 156° / 3,288 m Direction: West	Slow travel
13:26:00 PST 21:26-GMT	Blow 158° / 3,288 m Direction: West	Slow travel
13:27:00 PST 21:27-GMT	Body 159° / 3,288 m Direction: West	Slow travel • Fluke
13:31:00 PST 21:31-GMT	Blow 163° / 3,288 m Direction: West	Slow travel
13:32:00 PST 21:32-GMT	Body 164° / 3,288 m Direction: West	Slow travel • Fluke
13:33:00 PST 21:33-GMT	Blow 164° / 3,288 m Direction: West	Slow travel
13:36:00 PST 21:36-GMT	Blow 169° / 3,288 m Direction: West	Slow travel • Fluke
13:44:00 PST 21:44-GMT	Blow 177° / 3,288 m Direction: West	Slow travel • Fluke
13:49:00 PST 21:49-GMT	Blow 184° / 3,288 m Direction: West	Slow travel
13:50:00 PST 21:50-GMT	Blow 187° / 2,872 m Direction: West	Slow travel
13:51:00 PST 21:51-GMT	Body 188° / 2,872 m Direction: West	Slow travel • Fluke

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

13:58:00 PST 21:58-GMT	ni 196° / 3,288 m	Direction: West	Slow travel	ND / Outside
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21 Good - 3 Total 1 — 0 Calves at sighting

15:52:00 PST 23:52-GMT	Blow 113° / 2,094 m	Direction: West	Slow travel	
15:53:00 PST 23:53-GMT	Blow 115° / 1,778 m	Direction: West	Slow travel	
15:54:00 PST 23:54-GMT	Body 116° / 2,094 m	Direction: West	Slow travel • Fluke	
16:11:00 PST 0:11; 3/3/2007-GMT	Blow 143° / 1,778 m	Direction: West	Slow travel	
16:12:00 PST 0:12; 3/3/2007-GMT	Blow 146° / 1,369 m	Direction: West	Slow travel	
16:12:00 PST 0:12; 3/3/2007-GMT	Body 148° / 1,369 m	Direction: West	Slow travel • Fluke	
16:23:00 PST 0:23; 3/3/2007-GMT	Blow 211° / 1,019 m	Direction: West	Slow travel	
16:41:00 PST 0:41; 3/3/2007-GMT	Blow 261° / 2,553 m	Direction: West	Slow travel	Inside / Outside

Mar 03 Total 5 Calves 0
Day 34 of 105

Er Gray whale (northbound)

17 Good - 1 Total 2 — 0 Calves at sighting

11:36:00 PST 19:36-GMT	Blow 139° / 1,019 m	Direction: West	Slow travel	
11:39:00 PST 19:39-GMT	Blow 154° / 840 m	Direction: West	Slow travel • Fluke	
11:44:00 PST 19:44-GMT	Blow 201° / 639 m	Direction: West	Slow travel • Fluke	
11:52:00 PST 19:52-GMT	Blow 252° / 1,228 m	Direction: West	Slow travel	Inside / Outside

25 Good - 2 Total 1 — 0 Calves at sighting

13:03:00 PST 21:03-GMT	Body 182° / 378 m	Direction: West	Slow travel	
13:05:00 PST 21:05-GMT	Body 204° / 378 m	Direction: West	Slow travel	
13:07:00 PST 21:07-GMT	Body 232° / 404 m	Direction: West	Slow travel	Inside / ND

Close interaction with speed boat (sighting #26)

29 Good - 2 Total 2 — 0 Calves at sighting

14:12:00 PST 22:12-GMT	Blow 111° / 2,094 m	Direction: West	Slow travel • Fluke	
14:19:00 PST 22:19-GMT	Blow 122° / 1,228 m	Direction: West	Slow travel • Fluke	
14:22:00 PST 22:22-GMT	Blow 126° / 1,019 m	Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

14:25:00 PST 22:25-GMT	Blow 138° / 840 m Direction: West	Slow travel • Fluke	
14:31:00 PST 22:31-GMT	Blow 172° / 527 m Direction: West	Slow travel	
14:34:00 PST 22:34-GMT	Body 204° / 466 m Direction: West	Slow travel • Fluke	
14:43:00 PST 22:43-GMT	Blow 254° / 871 m Direction: West	Slow travel	Inside / Outside

Mar 04 Total 6 Calves 0
Day 35 of 105

Er Gray whale (northbound)

18 Fair - 2 Total 4 — 0 Calves at sighting

11:32:00 PST 19:32-GMT	Blow 159° / 3,288 m Direction: West	Slow travel	
<i>traveling with group of common dolphins (sighting #20)</i>			
11:39:00 PST 19:39-GMT	Blow 162° / 2,872 m Direction: West	Slow travel	
11:41:00 PST 19:41-GMT	Blow 164° / 2,872 m Direction: West	Slow travel	
11:44:00 PST 19:44-GMT	Body 166° / 2,872 m Direction: West	Slow travel • Fluke	
11:45:00 PST 19:45-GMT	Blow 171° / 2,872 m Direction: West	Slow travel	
11:47:00 PST 19:47-GMT	Body 172° / 2,872 m Direction: West	Slow travel	
11:51:00 PST 19:51-GMT	Body 176° / 2,872 m Direction: West	Slow travel • Fluke	
11:56:00 PST 19:56-GMT	Blow 184° / 2,872 m Direction: West	Slow travel • Fluke	
12:01:00 PST 20:01-GMT	Blow 193° / 2,553 m Direction: West	Slow travel	
12:08:00 PST 20:08-GMT	Blow 206° / 3,288 m Direction: West	Slow travel	
12:25:00 PST 20:25-GMT	Blow 239° / 2,872 m Direction: West	Slow travel	
12:30:00 PST 20:30-GMT	Blow 247° / 2,872 m Direction: West	Slow travel	
12:36:00 PST 20:36-GMT	Body 247° / 3,288 m Direction: West	Slow travel • Breach	
<i>3 breaches - dolphins seemed to disappear - no confirmation, but asked Condor if dolphins were still there when they got there (later), and captain said no</i>			

40 Fair - 2 Total 2 — 0 Calves at sighting

16:45:00 PST 0:45; 3/5/2007-GMT	Blow 141° / 3,288 m Direction: West	Slow travel	
16:48:00 PST 0:48; 3/5/2007-GMT	Blow 140° / 3,288 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

16:53:00 PST 0:53; 3/5/2007-GMT	Blow 147° / 3,288 m Direction: West	Slow travel • Fluke	
17:07:00 PST 1:07; 3/5/2007-GMT	Blow 150° / 1,778 m Direction: West	Slow travel • Fluke	
17:14:00 PST 1:14; 3/5/2007-GMT	Blow 151° / 2,553 m Direction: West	Slow travel	
17:16:00 PST 1:16; 3/5/2007-GMT	Body 151° / 1,019 m Direction: West	Slow travel • Fluke	
17:28:00 PST 1:28; 3/5/2007-GMT	Body 165° / 2,553 m Direction: West	Slow travel • Fluke	ND / ND

Mar 05 Total 10 Calves 1
Day 36 of 105

Er Gray whale (northbound)

01 Good - 0 Total 1 — 0 Calves at sighting

9:01:00 PST 17:01-GMT	Blow 127° / 1,228 m Direction: West	Slow travel	
9:09:00 PST 17:09-GMT	Blow 157° / 551 m Direction: West	Slow travel	
9:12:00 PST 17:12-GMT	Body 198° / 449 m Direction: West	Slow travel	
9:16:00 PST 17:16-GMT	Blow 241° / 1,228 m Direction: West	Slow travel	
9:25:00 PST 17:25-GMT	Blow 278° / 1,546 m Direction: West	Slow travel	Inside / Through

Very quiet whale in a very quiet sea

03 Good - 0 Total 2 — 0 Calves at sighting

10:37:00 PST 18:37-GMT	Body 105° / 2,553 m Direction: West	Slow travel • Fluke	
10:42:00 PST 18:42-GMT	Blow 113° / 2,094 m Direction: West	Slow travel • Fluke	
10:46:00 PST 18:46-GMT	Blow 118° / 1,294 m Direction: West	Slow travel • Fluke	
10:48:00 PST 18:48-GMT	Blow 124° / 1,113 m Direction: West	Slow travel	
10:49:00 PST 18:49-GMT	Blow 131° / 939 m Direction: West	Slow travel • Fluke	
10:54:00 PST 18:54-GMT	Blow 170° / 551 m Direction: West	Slow travel	
10:57:00 PST 18:57-GMT	Body 214° / 551 m Direction: West	Slow travel • Fluke	
11:01:00 PST 19:01-GMT	Blow 249° / 840 m Direction: West	Slow travel	
11:03:00 PST 19:03-GMT	Blow 256° / 1,019 m Direction: West	Slow travel • Fluke	Inside / Outside

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

06	Good - 0	Total 3 — 0 Calves at sighting		
	11:32:00 PST 19:32-GMT	Blow 156° / 3,288 m	Direction: West	Slow travel • Fluke
	11:39:00 PST 19:39-GMT	Blow 167° / 2,553 m	Direction: West	Slow travel • Fluke
	11:46:00 PST 19:46-GMT	Blow 177° / 2,553 m	Direction: West	Slow travel • Fluke
	11:53:00 PST 19:53-GMT	Blow 189° / 2,872 m	Direction: West	Slow travel • Fluke
	12:05:00 PST 20:05-GMT	Blow 212° / 3,288 m	Direction: West	Slow travel • Fluke
				Outside / Outside
08	Good - 0	Total 1 — 0 Calves at sighting		
	13:18:00 PST 21:18-GMT	Blow 161° / 505 m	Direction: West	Slow travel
	13:23:00 PST 21:23-GMT	Blow 211° / 418 m	Direction: West	Slow travel
				ND / ND
14	Good - 0	Total 1 — 0 Calves at sighting		
	14:31:00 PST 22:31-GMT	Blow 190° / 1,778 m	Direction: West	Slow travel • Fluke
	14:34:00 PST 22:34-GMT	Blow 200° / 1,778 m	Direction: West	Slow travel
	14:36:00 PST 22:36-GMT	Blow 208° / 2,094 m	Direction: West	Slow travel • Fluke
	14:41:00 PST 22:41-GMT	Body 220° / 2,094 m	Direction: West	Slow travel
	14:52:00 PST 22:52-GMT	Body 244° / 2,553 m	Direction: West	Slow travel
				Inside / Outside
		<i>Sound from Holly + crew boat during sighting</i>		
21	Good - 0	Total 2 — 1 Calf at sighting		
	16:19:00 PST 0:19; 3/6/2007-GMT	Body 156° / 871 m	Direction: West	Slow travel
	16:25:00 PST 0:25; 3/6/2007-GMT	Body 190° / 840 m	Direction: West	Slow travel
	16:30:00 PST 0:30; 3/6/2007-GMT	Blow 218° / 871 m	Direction: West	Slow travel
	16:33:00 PST 0:33; 3/6/2007-GMT	Body 232° / 871 m	Direction: West	Slow travel
	16:41:00 PST 0:41; 3/6/2007-GMT	Blow 255° / 1,294 m	Direction: West	Slow travel
	16:48:00 PST 0:48; 3/6/2007-GMT	Blow 268° / 2,094 m	Direction: West	Slow travel
				Inside / Outside
		<i>FIRST CALF - bobbing around on the surface for much of the time</i>		

Mar 06 Total 6 Calves 0
Day 37 of 105

Er Gray whale (northbound)

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

01	Good - 0	Total 2 — 0 Calves at sighting	
	8:51:00 PST 16:51-GMT	Body 177° / 715 m Direction: West	Slow travel • Fluke
		<i>Possible calf - did not get good looks</i>	
	8:55:00 PST 16:55-GMT	Body 217° / 715 m Direction: West	Slow travel • Fluke
	9:00:00 PST 17:00-GMT	Blow 244° / 1,113 m Direction: West	Slow travel • Fluke
	9:05:00 PST 17:05-GMT	Body 263° / 2,872 m Direction: West	Slow travel • Fluke Inside / Outside
14	Fair - 2	Total 1 — 0 Calves at sighting	
	14:21:00 PST 22:21-GMT	Blow 205° / 3,288 m Direction: West	Slow travel
	14:26:00 PST 22:26-GMT	Blow 210° / 4,712 m Direction: West	Slow travel ND / ND
		<i>lost in haze behind Holly (likely traveled Outside Holly)</i>	
15	Fair - 2	Total 3 — 0 Calves at sighting	
	16:43:00 PST 0:43; 3/7/2007-GMT	Blow 166° / 2,872 m Direction: West	Slow travel
	16:51:00 PST 0:51; 3/7/2007-GMT	Body 184° / 1,778 m Direction: West	Slow travel • Breach • Fluke <i>2 breaches</i>
	17:01:00 PST 1:01; 3/7/2007-GMT	Blow 213° / 1,546 m Direction: West	Slow travel • Fluke
	17:05:00 PST 1:05; 3/7/2007-GMT	Blow 227° / 1,369 m Direction: West	Slow travel
	17:07:00 PST 1:07; 3/7/2007-GMT	Blow 232° / 1,546 m Direction: West	Slow travel • Fluke Inside / Outside

Mar 07 Total 9 Calves 0
Day 38 of 105

Er Gray whale (northbound)

05	Fair - 0	Total 1 — 0 Calves at sighting	
	9:29:00 PST 17:29-GMT	Blow 152° / 761 m Direction: West	Slow travel
	9:37:00 PST 17:37-GMT	Body 216° / 1,113 m Direction: West	Slow travel • Fluke
	9:48:00 PST 17:48-GMT	Body 259° / 1,369 m Direction: West	Slow travel Inside / Outside
		<i>very quiet whale</i>	
08	Fair - 2	Total 1 — 0 Calves at sighting	<i>Disappeared</i>
	11:10:00 PST 19:10-GMT	Blow 172° / 761 m Direction: West	Slow travel
	11:13:00 PST 19:13-GMT	Blow 194° / 715 m Direction: West	Slow travel ND / ND
		<i>Disappeared - Did not see after boat interaction (sighting #9)</i>	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

13	Fair - 2	Total 4 — 0 Calves at sighting		
	11:35:00 PST 19:35-GMT	Blow 156° / 3,288 m	Direction: West	Slow travel
	12:00:00 PST 20:00-GMT	Blow 159° / 3,288 m	Direction: West	Slow travel
	12:02:00 PST 20:02-GMT	Blow 161° / 3,288 m	Direction: West	Slow travel
	12:08:00 PST 20:08-GMT	Blow 166° / 3,288 m	Direction: West	Slow travel
	12:15:00 PST 20:15-GMT	Blow 173° / 3,288 m	Direction: West	Slow travel
		<i>at least 3; Blow-blow-blow-blow...</i>		
	12:24:00 PST 20:24-GMT	Blow 183° / 3,288 m	Direction: West	Slow travel
	12:27:00 PST 20:27-GMT	Blow 186° / 3,288 m	Direction: West	Slow travel • Fluke
	12:30:00 PST 20:30-GMT	Blow 189° / 3,288 m	Direction: West	Slow travel • Fluke
	12:39:00 PST 20:39-GMT	Blow 198° / 3,288 m	Direction: West	Slow travel
	12:46:00 PST 20:46-GMT	Blow 208° / 4,712 m	Direction: West	Slow travel
	12:54:00 PST 20:54-GMT	Blow 216° / 4,712 m	Direction: West	Slow travel • Fluke
	13:09:00 PST 21:09-GMT	ni 232° / 4,712 m	Direction: West	Slow travel
				Outside / Outside
15	Fair - 3	Total 3 — 0 Calves at sighting		
	12:42:00 PST 20:42-GMT	Blow 174° / 4,712 m	Direction: West	Slow travel
	12:50:00 PST 20:50-GMT	Blow 183° / 3,288 m	Direction: West	Slow travel • Fluke
	13:07:00 PST 21:07-GMT	Blow 205° / 4,712 m	Direction: West	Slow travel
	13:15:00 PST 21:15-GMT	Blow 214° / 4,712 m	Direction: West	Slow travel • Fluke
	13:35:00 PST 21:35-GMT	233° / 4,712 m	Direction: West	Slow travel
				Outside / Outside

Mar 08 Total 12 Calves 1
Day 39 of 105

Er Gray whale (northbound)

01	Fair - 2	Total 2 — 1 Calf at sighting		
	9:10:00 PST 17:10-GMT	Blow 139° / 551 m	Direction: West	Slow travel
		<i>Shane Anderson (UCSB seep monitor) called @ 09:00 from kelp off IV and told us whale was coming</i>		

Species Totals with Sighting and Tracking, On-Effort, ≅ Beaufort 4

	9:14:00 PST 17:14-GMT	Blow 152° / 466 m Direction: West	Slow travel	
	9:18:00 PST 17:18-GMT	Blow 206° / 346 m Direction: West	Slow travel	
	9:20:00 PST 17:20-GMT	Blow 233° / 433 m Direction: West	Slow travel	
	9:23:00 PST 17:23-GMT	Blow 259° / 639 m Direction: West	Slow travel	
	9:24:00 PST 17:24-GMT	Blow 260° / 1,019 m Direction: West	Slow travel	
	9:28:00 PST 17:28-GMT	Blow 269° / 1,778 m Direction: West	Slow travel	Inside / Outside
08	Fair - 2	Total 1 — 0 Calves at sighting		
	10:05:00 PST 18:05-GMT	Blow 114° / 1,369 m Direction: Stationary	Milling	
	10:09:00 PST 18:09-GMT	Blow 114° / 1,369 m Direction: Stationary	Milling	
	10:13:00 PST 18:13-GMT	Blow 125° / 939 m Direction: West	Slow travel	
	10:21:00 PST 18:21-GMT	Blow 164° / 505 m Direction: West	Slow travel	
	10:26:00 PST 18:26-GMT	Blow 216° / 378 m Direction: West	Slow travel	
	10:29:00 PST 18:29-GMT	Blow 244° / 639 m Direction: West	Slow travel	
	10:31:00 PST 18:31-GMT	Body 256° / 812 m Direction: West	Slow travel	
	10:37:00 PST 18:37-GMT	Blow 273° / 1,228 m Direction: West	Slow travel	Inside / Outside
15	Fair - 2	Total 1 — 0 Calves at sighting		
	11:30:00 PST 19:30-GMT	Blow 123° / 715 m Direction: West	Slow travel	
	11:35:00 PST 19:35-GMT	Blow 149° / 485 m Direction: West	Slow travel	
	11:37:00 PST 19:37-GMT	Blow 174° / 378 m Direction: West	Slow travel	
	11:40:00 PST 19:40-GMT	Blow 218° / 433 m Direction: West	Slow travel	Inside / ND
16	Good - 2	Total 3 — 0 Calves at sighting		
	11:45:00 PST 19:45-GMT	Blow 160° / 2,553 m Direction: West	Slow travel • Fluke	
	11:53:00 PST 19:53-GMT	Blow 180° / 2,094 m Direction: West	Slow travel	
	11:55:00 PST 19:55-GMT	Blow 184° / 2,094 m Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	12:00:00 PST 20:00-GMT	Blow 202° / 1,778 m Direction: West	Slow travel	
	12:03:00 PST 20:03-GMT	Blow 209° / 1,778 m Direction: West	Slow travel • Fluke	
	12:06:00 PST 20:06-GMT	Blow 223° / 2,094 m Direction: West	Slow travel • Fluke	
	12:11:00 PST 20:11-GMT	Blow 233° / 2,094 m Direction: West	Slow travel	
	12:17:00 PST 20:17-GMT	Blow 248° / 2,553 m Direction: West	Slow travel	Inside / Outside
19	Good - 1	Total 2 — 0 Calves at sighting		
	12:40:00 PST 20:40-GMT	Blow 145° / 3,288 m Direction: West	Slow travel • Fluke	
		<i>Condor called us</i>		
	12:46:00 PST 20:46-GMT	Blow 154° / 2,553 m Direction: West	Slow travel	
	12:53:00 PST 20:53-GMT	Blow 166° / 2,553 m Direction: West	Slow travel • Fluke	
	13:00:00 PST 21:00-GMT	Blow 181° / 2,094 m Direction: West	Slow travel	
	13:03:00 PST 21:03-GMT	Blow 188° / 2,094 m Direction: West	Slow travel	
	13:08:00 PST 21:08-GMT	Blow 200° / 2,553 m Direction: West	Slow travel	
	13:15:00 PST 21:15-GMT	Blow 212° / 2,872 m Direction: West	Slow travel	ND / Outside
22	Fair - 4	Total 1 — 0 Calves at sighting		
	13:31:00 PST 21:31-GMT	Blow 127° / 2,094 m Direction: West	Slow travel	
	13:41:00 PST 21:41-GMT	Blow 134° / 1,228 m Direction: West	Slow travel	
	13:43:00 PST 21:43-GMT	Blow 154° / 449 m Direction: West	Slow travel	
	13:47:00 PST 21:47-GMT	Blow 216° / 485 m Direction: West	Slow travel	Inside / ND
25	Fair - 4	Total 1 — 0 Calves at sighting		
	14:51:00 PST 22:51-GMT	Blow 257° / 551 m Direction: West	Slow travel	ND / ND
27	Fair - 4	Total 1 — 0 Calves at sighting		
	15:46:00 PST 23:46-GMT	Blow 236° / 1,294 m Direction: West	Slow travel	
	15:50:00 PST 23:50-GMT	Blow 157° / 1,019 m Direction: West	Slow travel	
	15:56:00 PST 23:56-GMT	Blow 212° / 761 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	16:11:00 PST 0:11; 3/9/2007-GMT	Blow 273° / 2,094 m	Direction: West	Slow travel	Inside / Outside
Mar 09	Total 16	Calves 0	Er Gray whale (northbound)		
Day 40 of 105					
03	Fair - 3	Total 2 — 0 Calves at sighting			
	9:26:00 PST 17:26-GMT	Blow 157° / 715 m	Direction: West	Slow travel	
	9:29:00 PST 17:29-GMT	Blow 179° / 607 m	Direction: West	Slow travel	
	9:33:00 PST 17:33-GMT	Blow 232° / 675 m	Direction: West	Slow travel	
	9:35:00 PST 17:35-GMT	Blow 242° / 871 m	Direction: West	Slow travel	
	9:39:00 PST 17:39-GMT	Blow 257° / 1,228 m	Direction: West	Slow travel	
	9:52:00 PST 17:52-GMT	Blow 277° / 2,094 m	Direction: West	Slow travel	Inside / Outside
08	Fair - 2	Total 3 — 0 Calves at sighting			
	10:53:00 PST 18:53-GMT	Blow 155° / 2,553 m	Direction: West	Slow travel	
	11:03:00 PST 19:03-GMT	Blow 179° / 1,546 m	Direction: West	Slow travel • Fluke	
	11:10:00 PST 19:10-GMT	Blow 207° / 1,546 m	Direction: West	Slow travel • Fluke	
	11:18:00 PST 19:18-GMT	Blow 232° / 2,094 m	Direction: West	Slow travel • Fluke	
	11:28:00 PST 19:28-GMT	Body 250° / 2,872 m	Direction: West	Slow travel • Fluke	Inside / Outside
09	Fair - 2	Total 1 — 0 Calves at sighting			
	11:21:00 PST 19:21-GMT	Blow 149° / 505 m	Direction: West	Slow travel	
	11:27:00 PST 19:27-GMT	Body 217° / 418 m	Direction: West	Slow travel	ND / ND
12	Fair - 3	Total 2 — 0 Calves at sighting			
	13:24:00 PST 21:24-GMT	Blow 104° / 2,553 m	Direction: West	Slow travel	
	13:32:00 PST 21:32-GMT	Blow 112° / 1,778 m	Direction: West	Slow travel	
	13:39:00 PST 21:39-GMT	Blow 118° / 1,113 m	Direction: West	Slow travel	
	13:42:00 PST 21:42-GMT	Blow 128° / 840 m	Direction: West	Slow travel	
	13:47:00 PST 21:47-GMT	Blow 171° / 466 m	Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	13:50:00 PST 21:50-GMT	Blow 203° / 378 m Direction: West	Slow travel	
	13:54:00 PST 21:54-GMT	Blow 254° / 715 m Direction: West	Slow travel • Fluke	
	14:02:00 PST 22:02-GMT	Blow 275° / 1,369 m Direction: West	Slow travel • Fluke	
	14:10:00 PST 22:10-GMT	Blow 278° / 2,094 m Direction: West	Slow travel • Fluke	Inside / Through
	<i>With Ts (sighting #13) much of the way</i>			
14	Good - 2	Total 1 — 0 Calves at sighting		
	14:28:00 PST 22:28-GMT	Blow 190° / 675 m Direction: West	Slow travel	
	14:33:00 PST 22:33-GMT	Blow 237° / 840 m Direction: West	Slow travel	
	14:48:00 PST 22:48-GMT	Blow 270° / 2,094 m Direction: West	Slow travel	
	14:50:00 PST 22:50-GMT	Body 274° / 2,553 m Direction: West	Slow travel • Breach • Fluke	Inside / Outside
15	Good - 3	Total 2 — 0 Calves at sighting		
	15:17:00 PST 23:17-GMT	Blow 111° / 2,094 m Direction: West	Slow travel	
	15:23:00 PST 23:23-GMT	Blow 126° / 1,369 m Direction: West	Slow travel	
	15:25:00 PST 23:25-GMT	Blow 135° / 1,228 m Direction: West	Slow travel	
	15:27:00 PST 23:27-GMT	Blow 148° / 812 m Direction: West	Slow travel	
	15:29:00 PST 23:29-GMT	Blow 158° / 761 m Direction: West	Slow travel • Fluke	
	15:31:00 PST 23:31-GMT	Blow 182° / 607 m Direction: West	Slow travel	
	15:35:00 PST 23:35-GMT	Blow 218° / 761 m Direction: West	Slow travel	
	15:41:00 PST 23:41-GMT	Blow 254° / 1,369 m Direction: West	Slow travel	
	15:46:00 PST 23:46-GMT	Blow 265° / 1,778 m Direction: West	Slow travel	Inside / Outside
17	Fair - 3	Total 1 — 0 Calves at sighting		
	15:54:00 PST 23:54-GMT	Blow 146° / 1,019 m Direction: West	Slow travel • Fluke	
	15:57:00 PST 23:57-GMT	Blow 163° / 675 m Direction: West	Slow travel	
	15:59:00 PST 23:59-GMT	Blow 179° / 639 m Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	16:02:00 PST 0:02; 3/10/2007-GMT	Blow 217° / 871 m	Direction: West	Slow travel	Inside / Outside
18	Fair - 3	Total 2 — 0 Calves at sighting			
	16:05:00 PST 0:05; 3/10/2007-GMT	Blow 124° / 2,094 m	Direction: West	Slow travel • Fluke	
	16:13:00 PST 0:13; 3/10/2007-GMT	Blow 139° / 1,369 m	Direction: West	Slow travel	
	16:16:00 PST 0:16; 3/10/2007-GMT	Blow 147° / 1,228 m	Direction: West	Slow travel • Fluke	
	16:21:00 PST 0:21; 3/10/2007-GMT	Blow 177° / 871 m	Direction: West	Slow travel	
	16:23:00 PST 0:23; 3/10/2007-GMT	Blow 192° / 871 m	Direction: West	Slow travel	
	16:26:00 PST 0:26; 3/10/2007-GMT	Blow 206° / 1,019 m	Direction: West	Slow travel • Fluke	
	16:32:00 PST 0:32; 3/10/2007-GMT	Blow 235° / 1,294 m	Direction: West	Slow travel	Inside / Outside
19	Fair - 3	Total 1 — 0 Calves at sighting			
	16:20:00 PST 0:20; 3/10/2007-GMT	Blow 138° / 761 m	Direction: West	Slow travel	
	16:27:00 PST 0:27; 3/10/2007-GMT	Blow 204° / 466 m	Direction: West	Slow travel	
	16:29:00 PST 0:29; 3/10/2007-GMT	Blow 225° / 551 m	Direction: West	Slow travel	
	16:36:00 PST 0:36; 3/10/2007-GMT	Blow 268° / 1,113 m	Direction: West	Slow travel	Inside / Through
20	Fair - 3	Total 1 — 0 Calves at sighting			
	16:47:00 PST 0:47; 3/10/2007-GMT	Blow 112° / 3,288 m	Direction: West	Slow travel	
	16:53:00 PST 0:53; 3/10/2007-GMT	Blow 108° / 2,553 m	Direction: West	Slow travel	
	16:59:00 PST 0:59; 3/10/2007-GMT	Blow 110° / 2,553 m	Direction: West	Slow travel	
	17:07:00 PST 1:07; 3/10/2007-GMT	Blow 120° / 2,094 m	Direction: West	Slow travel	
	17:12:00 PST 1:12; 3/10/2007-GMT	Blow 127° / 1,546 m	Direction: West	Slow travel	
	17:17:00 PST 1:17; 3/10/2007-GMT	Blow 142° / 1,369 m	Direction: West	Slow travel	
	17:21:00 PST 1:21; 3/10/2007-GMT	Blow 165° / 871 m	Direction: West	Slow travel	
	17:24:00 PST 1:24; 3/10/2007-GMT	Blow 185° / 871 m	Direction: West	Slow travel	ND / ND

Mar 10 Total 7 Calves 0
Day 41 of 105

Er Gray whale (northbound)

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

01	Poor - 2	Total 1 — 0 Calves at sighting	<i>Disappeared</i>
	9:04:00 PST 17:04-GMT	Blow 184° / 812 m Direction: West	Slow travel ND / ND
	<i>Saw before opening - did not see after 09:04</i>		
05	Poor - 2	Total 2 — 0 Calves at sighting	
	9:35:00 PST 17:35-GMT	Blow 112° / 1,778 m Direction: West	Slow travel
	9:43:00 PST 17:43-GMT	Blow 135° / 1,019 m Direction: West	Slow travel • Fluke
	9:48:00 PST 17:48-GMT	Blow 167° / 715 m Direction: West	Slow travel • Fluke
	9:53:00 PST 17:53-GMT	Blow 248° / 939 m Direction: West	Slow travel
	9:59:00 PST 17:59-GMT	Blow 256° / 1,369 m Direction: West	Slow travel
	10:03:00 PST 18:03-GMT	Blow 266° / 1,778 m Direction: West	Slow travel
	10:04:00 PST 18:04-GMT	Blow 268° / 2,094 m Direction: West	Slow travel Inside / Outside
14	Fair - 2	Total 1 — 0 Calves at sighting	
	11:59:00 PST 19:59-GMT	Blow 131° / 939 m Direction: West	Slow travel
	12:04:00 PST 20:04-GMT	Blow 173° / 466 m Direction: West	Slow travel
	12:09:00 PST 20:09-GMT	Blow 236° / 607 m Direction: West	Slow travel Inside / ND
27	Good - 1	Total 3 — 0 Calves at sighting	
	15:58:00 PST 23:58-GMT	Blow 123° / 2,553 m Direction: West	Slow travel
	16:01:00 PST 0:01; 3/11/2007-GMT	Blow 130° / 2,553 m Direction: West	Slow travel
	16:03:00 PST 0:03; 3/11/2007-GMT	Blow 138° / 2,553 m Direction: West	Slow travel • Fluke
	16:07:00 PST 0:07; 3/11/2007-GMT	Blow 146° / 2,553 m Direction: West	Slow travel
	16:10:00 PST 0:10; 3/11/2007-GMT	Blow 157° / 2,553 m Direction: West	Slow travel
	16:12:00 PST 0:12; 3/11/2007-GMT	Blow 165° / 2,553 m Direction: West	Slow travel
	16:14:00 PST 0:14; 3/11/2007-GMT	Blow 175° / 2,553 m Direction: West	Slow travel
	16:16:00 PST 0:16; 3/11/2007-GMT	Blow 185° / 2,553 m Direction: West	Slow travel
	16:19:00 PST 0:19; 3/11/2007-GMT	Blow 198° / 2,094 m Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

16:20:00 PST 0:20; 3/11/2007-GMT	Blow 203° / 1,778 m	Direction: West	Slow travel	
16:22:00 PST 0:22; 3/11/2007-GMT	Blow 209° / 1,778 m	Direction: West	Slow travel	
16:24:00 PST 0:24; 3/11/2007-GMT	Blow 225° / 1,778 m	Direction: West	Slow travel	
16:27:00 PST 0:27; 3/11/2007-GMT	Blow 230° / 2,553 m	Direction: West	Slow travel	
16:30:00 PST 0:30; 3/11/2007-GMT	Blow 238° / 2,872 m	Direction: West	Slow travel	Inside / Outside

Mar 11 Total 15 Calves 0
Day 42 of 105

Er Gray whale (northbound)

01	Fair - 0	Total 1 — 0 Calves at sighting		
8:56:00 PDT 15:56-GMT	Blow 264° / 1,113 m	Direction: West	Slow travel	
9:03:00 PDT 16:03-GMT	Blow 263° / 1,228 m	Direction: West	Slow travel	
9:14:00 PDT 16:14-GMT	Blow 279° / 2,553 m	Direction: West	Slow travel	Inside / Outside
07	Fair - 0	Total 3 — 0 Calves at sighting		
9:54:00 PDT 16:54-GMT	Blow 157° / 3,288 m	Direction: West	Slow travel	
9:56:00 PDT 16:56-GMT	Blow 159° / 3,288 m	Direction: West	Slow travel	
9:57:00 PDT 16:57-GMT	Blow 159° / 3,288 m	Direction: West	Slow travel	
9:58:00 PDT 16:58-GMT	Blow 160° / 3,288 m	Direction: West	Slow travel • Fluke	
10:00:00 PDT 17:00-GMT	Blow 161° / 3,288 m	Direction: West	Slow travel • Fluke	
10:05:00 PDT 17:05-GMT	Blow 167° / 3,288 m	Direction: West	Slow travel	
10:07:00 PDT 17:07-GMT	Blow 169° / 2,872 m	Direction: West	Slow travel	
10:11:00 PDT 17:11-GMT	Blow 172° / 3,288 m	Direction: West	Slow travel	
10:27:00 PDT 17:27-GMT	Blow 195° / 2,872 m	Direction: West	Slow travel • Fluke	
10:31:00 PDT 17:31-GMT	Blow 201° / 3,288 m	Direction: West	Slow travel • Fluke	
10:36:00 PDT 17:36-GMT	Body 208° / 2,553 m	Direction: West	Slow travel • Fluke	
10:40:00 PDT 17:40-GMT	Blow 217° / 2,872 m	Direction: West	Slow travel • Fluke	ND / ND

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10	Fair - 0	Total 2 — 0 Calves at sighting	<i>Disappeared</i>	
	10:49:00 PDT 17:49-GMT	Blow 145° / 1,778 m	Direction: West	Slow travel
	10:51:00 PDT 17:51-GMT	Blow 151° / 1,369 m	Direction: West	Slow travel
	10:52:00 PDT 17:52-GMT	Body 159° / 1,019 m	Direction: West	Slow travel • Fluke
		<i>Disappeared</i>		ND / ND
26	Good - 1	Total 1 — 0 Calves at sighting		
	13:37:00 PDT 20:37-GMT	Blow 189° / 3,288 m	Direction: West	Slow travel
	13:43:00 PDT 20:43-GMT	Blow 196° / 3,288 m	Direction: West	Slow travel • Fluke
	13:57:00 PDT 20:57-GMT	Blow 216° / 3,288 m	Direction: West	Slow travel • Fluke
	14:05:00 PDT 21:05-GMT	Blow 229° / 3,288 m	Direction: West	Slow travel
	14:07:00 PDT 21:07-GMT	Blow 232° / 3,288 m	Direction: West	Slow travel
				Outside / Outside
27	Good - 2	Total 1 — 0 Calves at sighting		
	14:50:00 PDT 21:50-GMT	Blow 141° / 1,019 m	Direction: West	Slow travel
	14:51:00 PDT 21:51-GMT	Blow 142° / 1,019 m	Direction: West	Slow travel
	15:02:00 PDT 22:02-GMT	Blow 218° / 871 m	Direction: West	Slow travel
	15:04:00 PDT 22:04-GMT	Blow 227° / 1,228 m	Direction: West	Slow travel
	15:10:00 PDT 22:10-GMT	Blow 243° / 1,546 m	Direction: West	Slow travel
				Inside / Outside
30	Good - 2	Total 2 — 0 Calves at sighting		
	15:24:00 PDT 22:24-GMT	Blow 187° / 1,778 m	Direction: West	Slow travel
	15:33:00 PDT 22:33-GMT	Blow 212° / 2,094 m	Direction: West	Slow travel • Fluke
	15:40:00 PDT 22:40-GMT	Blow 230° / 2,553 m	Direction: West	Slow travel • Fluke
				Inside / Outside
32	Good - 2	Total 1 — 0 Calves at sighting		
	16:04:00 PDT 23:04-GMT	Blow 214° / 2,553 m	Direction: West	Slow travel • Fluke
33	Good - 2	Total 4 — 0 Calves at sighting		
	16:54:00 PDT 23:54-GMT	Blow 171° / 3,288 m	Direction: West	Slow travel
	16:59:00 PDT 23:59-GMT	Blow 173° / 3,288 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

17:03:00 PDT 0:03; 3/12/2007-GMT	Blow 175° / 3,288 m Direction: West	Slow travel	
17:10:00 PDT 0:10; 3/12/2007-GMT	Blow 177° / 3,288 m Direction: West	Slow travel	
17:12:00 PDT 0:12; 3/12/2007-GMT	Blow 181° / 3,288 m Direction: West	Slow travel	
17:17:00 PDT 0:17; 3/12/2007-GMT	Blow 183° / 3,288 m Direction: West	Slow travel	
17:23:00 PDT 0:23; 3/12/2007-GMT	Blow 189° / 3,288 m Direction: West	Slow travel • Fluke	ND / ND

Jet skis (not entered in Vessel Log) in track of whales

Mar 12 Total 11 Calves 0
Day 43 of 105

Er Gray whale (northbound)

01 Good - 0 Total 1 — 0 Calves at sighting

8:55:00 PDT 15:55-GMT	Body 217° / 675 m Direction: West	Slow travel	
8:58:00 PDT 15:58-GMT	Body 280° / 939 m Direction: West	Slow travel • Fluke	
9:05:00 PDT 16:05-GMT	Blow 264° / 1,113 m Direction: West	Slow travel • Fluke	
9:12:00 PDT 16:12-GMT	Blow 273° / 2,094 m Direction: West	Slow travel	
9:13:00 PDT 16:13-GMT	Blow 273° / 1,778 m Direction: West	Slow travel • Fluke	Inside / Outside

17 Good - 0 Total 6 — 0 Calves at sighting

13:22:00 PDT 20:22-GMT	Blow 140° / 2,872 m Direction: West	Slow travel	
13:28:00 PDT 20:28-GMT	Blow 147° / 2,553 m Direction: West	Slow travel	
13:31:00 PDT 20:31-GMT	Body 152° / 2,553 m Direction: West	Slow travel • Fluke	
13:39:00 PDT 20:39-GMT	Blow 162° / 2,872 m Direction: West	Slow travel • Fluke	
13:42:00 PDT 20:42-GMT	Blow 166° / 2,872 m Direction: West	Slow travel	
13:45:00 PDT 20:45-GMT	Blow 174° / 2,872 m Direction: West	Slow travel	
13:49:00 PDT 20:49-GMT	Body 184° / 2,094 m Direction: West	Slow travel • Fluke	
13:51:00 PDT 20:51-GMT	Blow 190° / 2,094 m Direction: West	Slow travel	
13:52:00 PDT 20:52-GMT	Blow 195° / 2,553 m Direction: West	Slow travel • Fluke	
13:57:00 PDT 20:57-GMT	Blow 211° / 2,553 m Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

14:04:00 PDT 21:04-GMT	Blow 232° / 2,094 m Direction: West	Slow travel • Fluke	
14:05:00 PDT 21:05-GMT	Blow 232° / 2,872 m Direction: West	Slow travel • Fluke	Inside / Outside

3 whales went inside Holly and 3 whales went outside

22	Good - 0	Total 2 — 0 Calves at sighting	
14:34:00 PDT 21:34-GMT	Blow 116° / 1,369 m Direction: West	Slow travel	
14:35:00 PDT 21:35-GMT	Body 121° / 1,778 m Direction: West	Slow travel	
14:41:00 PDT 21:41-GMT	Body 144° / 871 m Direction: West	Slow travel	
14:50:00 PDT 21:50-GMT	Blow 223° / 715 m Direction: West	Slow travel	
14:57:00 PDT 21:57-GMT	Blow 261° / 939 m Direction: West	Slow travel	
14:58:00 PDT 21:58-GMT	Blow 261° / 939 m Direction: West	Slow travel	Inside / ND
23	Good - 0	Total 2 — 0 Calves at sighting	
14:44:00 PDT 21:44-GMT	Body 216° / 1,369 m Direction: West	Slow travel	
14:47:00 PDT 21:47-GMT	Blow 227° / 2,094 m Direction: West	Slow travel	
14:49:00 PDT 21:49-GMT	Blow 232° / 2,094 m Direction: West	Slow travel	
14:53:00 PDT 21:53-GMT	Blow 244° / 2,094 m Direction: West	Slow travel	Inside / Outside

Mar 13 Total 5 Calves 0
Day 44 of 105

Er Gray whale (northbound)

01	Good - 3	Total 1 — 0 Calves at sighting	
12:20:00 PDT 19:20-GMT	Blow 140° / 639 m Direction: West	Slow travel	
12:23:00 PDT 19:23-GMT	Blow 174° / 485 m Direction: West	Slow travel	
12:25:00 PDT 19:25-GMT	Blow 202° / 404 m Direction: West	Slow travel	
12:26:00 PDT 19:26-GMT	Blow 218° / 433 m Direction: West	Slow travel	Inside / ND
	<i>big whale</i>		
02	Good - 4	Total 1 — 0 Calves at sighting	
12:53:00 PDT 19:53-GMT	Blow 197° / 715 m Direction: West	Slow travel	ND / ND
	<i>Weather: low 4 Beaufort, mostly east</i>		
	<i>Vessel (not reported in Vessel Log): UCSB seep monitoring boat at seep, whale appeared right next to boat.</i>		

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

03	Good - 3	Total 1 — 0 Calves at sighting	
	13:25:00 PDT 20:25-GMT	Blow 151° / 505 m Direction: West	Slow travel
	13:27:00 PDT 20:27-GMT	Blow 192° / 378 m Direction: West	Slow travel
	13:33:00 PDT 20:33-GMT	Body 259° / 551 m Direction: West	Slow travel Inside / ND
07	Good - 0	Total 1 — 0 Calves at sighting	
	14:25:00 PDT 21:25-GMT	Body 141° / 639 m Direction: West	Slow travel
	14:26:00 PDT 21:26-GMT	Blow 149° / 639 m Direction: West	Slow travel
	14:32:00 PDT 21:32-GMT	Blow 215° / 505 m Direction: West	Slow travel
	14:33:00 PDT 21:33-GMT	Blow 227° / 449 m Direction: West	Slow travel
	14:57:00 PDT 21:57-GMT	Blow 255° / 871 m Direction: West	Slow travel Inside / Outside
09	Fair - 0	Total 1 — 0 Calves at sighting	
	16:29:00 PDT 23:29-GMT	Blow 112° / 2,553 m Direction: West	Slow travel • Fluke
	16:40:00 PDT 23:40-GMT	Body 128° / 1,369 m Direction: West	Slow travel • Fluke
	16:44:00 PDT 23:44-GMT	Body 144° / 939 m Direction: West	Slow travel
	16:46:00 PDT 23:46-GMT	Body 155° / 761 m Direction: West	Slow travel
	16:47:00 PDT 23:47-GMT	Body 171° / 675 m Direction: West	Slow travel • Fluke
	16:51:00 PDT 23:51-GMT	Blow 213° / 578 m Direction: West	Slow travel • Fluke
		<i>@16:50 whale overtaken by sailboat (motor) (not recorded in Vessel Log) - passed over submerged whale</i>	
	16:58:00 PDT 23:58-GMT	Blow 252° / 1,113 m Direction: West	Slow travel
	16:59:00 PDT 23:59-GMT	Blow 255° / 1,113 m Direction: West	Slow travel • Fluke Inside / Outside

Mar 14 Total 20 Calves 0
Day 45 of 105

Er Gray whale (northbound)

03	Poor - 1	Total 2 — 0 Calves at sighting	
	9:57:00 PDT 16:57-GMT	Blow 127° / 2,553 m Direction: West	Slow travel
	9:59:00 PDT 16:59-GMT	Blow 130° / 1,778 m Direction: West	Slow travel • Fluke

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10:06:00 PDT 17:06-GMT	Body 146° / 1,228 m Direction: West	Slow travel • Fluke	
10:07:00 PDT 17:07-GMT	Body 150° / 1,019 m Direction: West	Slow travel	
10:12:00 PDT 17:12-GMT	Blow 173° / 715 m Direction: West	Slow travel • Fluke	
10:15:00 PDT 17:15-GMT	Blow 256° / 1,019 m Direction: West	Slow travel	
10:22:00 PDT 17:22-GMT	Body 266° / 2,094 m Direction: West	Slow travel • Fluke	Inside / Outside

Very complicated whales (and sightings) see sighting #4 @ 10:33

04 Poor - 1 Total 3 — 0 Calves at sighting

10:03:00 PDT 17:03-GMT	Blow 128° / 2,553 m Direction: West	Slow travel	
10:16:00 PDT 17:16-GMT	Blow 214° / 1,019 m Direction: West	Fast travel	
10:20:00 PDT 17:20-GMT	Body 232° / 1,019 m Direction: West	Fast travel	
10:21:00 PDT 17:21-GMT	Body 234° / 1,228 m Direction: West	Fast travel • Fluke	
10:27:00 PDT 17:27-GMT	Body 257° / 2,553 m Direction: West	Fast travel • Fluke	
10:33:00 PDT 17:33-GMT	ni 264° / 2,553 m Direction: West	Slow travel	Inside / Outside

Very complicated groups of whales (sighting #3 + 4) - Condor called and said there was a group of 2 and at least one whale a little further off. We saw those and then 2 blows farther still to the right of Holly. We concluded it was not 3 sightings but some fast movement (Michael said it was fastest migrating whales so far...). We entered 5 as the total for the combined sightings, but there could have been 7 whales in front of us. They were large, fast whales.

11 Poor - 2 Total 3 — 0 Calves at sighting

11:28:00 PDT 18:28-GMT	Blow 160° / 3,288 m Direction: West	Slow travel	
11:31:00 PDT 18:31-GMT	Blow 163° / 3,288 m Direction: West	Slow travel • Fluke	
11:35:00 PDT 18:35-GMT	Blow 169° / 3,288 m Direction: West	Slow travel	
11:38:00 PDT 18:38-GMT	Blow 171° / 3,288 m Direction: West	Slow travel	
11:44:00 PDT 18:44-GMT	Blow 180° / 3,288 m Direction: West	Slow travel • Fluke	
11:45:00 PDT 18:45-GMT	Blow 183° / 3,288 m Direction: West	Slow travel • Fluke	NI / NI

Weather: Less contrast now to left (east) of Holly

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

13	Poor - 1	Total 2 — 0 Calves at sighting		
	12:21:00 PDT	Blow		
	19:21-GMT	148° / 1,778 m	Direction: West	Slow travel
	<i>Condor reported 3 whales</i>			
	12:30:00 PDT	Blow		
	19:30-GMT	186° / 1,369 m	Direction: West	Slow travel • Fluke
	12:38:00 PDT	Blow		
	19:38-GMT	226° / 1,228 m	Direction: West	Slow travel
	12:40:00 PDT	Blow		
	19:40-GMT	234° / 1,369 m	Direction: West	Slow travel
	12:45:00 PDT	Blow		
	19:45-GMT	251° / 1,778 m	Direction: West	not indicated
	12:46:00 PDT	Blow		
	19:46-GMT	256° / 1,546 m	Direction: West	not indicated
				Inside / Outside
17	Poor - 1	Total 2 — 0 Calves at sighting		
	15:08:00 PDT	Body		
	22:08-GMT	111° / 2,094 m	Direction: West	Slow travel • Breach
	15:11:00 PDT	Blow		
	22:11-GMT	118° / 1,778 m	Direction: West	Slow travel
	15:17:00 PDT	Blow		
	22:17-GMT	136° / 1,019 m	Direction: West	Slow travel
	15:25:00 PDT	Body		
	22:25-GMT	167° / 623 m	Direction: West	Slow travel
	15:30:00 PDT	Blow		
	22:30-GMT	218° / 812 m	Direction: West	Slow travel
	15:34:00 PDT	Body		
	22:34-GMT	246° / 715 m	Direction: West	Slow travel • Fluke
	15:38:00 PDT	Blow		
	22:38-GMT	257° / 1,228 m	Direction: West	Slow travel
				Inside / Outside
18	Poor - 3	Total 2 — 0 Calves at sighting		
	15:13:00 PDT	Blow		
	22:13-GMT	162° / 527 m	Direction: West	not indicated
	15:15:00 PDT	Blow		
	22:15-GMT	169° / 505 m	Direction: West	Slow travel
	15:16:00 PDT	Blow		
	22:16-GMT	181° / 495 m	Direction: West	Slow travel
	15:23:00 PDT	Body		
	22:23-GMT	255° / 715 m	Direction: West	Slow travel • Fluke
	15:27:00 PDT	Blow		
	22:27-GMT	268° / 761 m	Direction: West	Slow travel
	15:29:00 PDT	Blow		
	22:29-GMT	273° / 1,228 m	Direction: West	not indicated
				Inside / Through
19	Poor - 3	Total 2 — 0 Calves at sighting		
	15:41:00 PDT	Body		
	22:41-GMT	230° / 1,113 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

03	Poor - 1	Total 1 — 0 Calves at sighting	
10:57:00 PDT 17:57-GMT	Blow 251° / 1,369 m	Direction: West	Slow travel
11:03:00 PDT 18:03-GMT	Blow 262° / 1,546 m	Direction: West	Slow travel Inside / Outside
04	Poor - 1	Total 1 — 0 Calves at sighting	
11:09:00 PDT 18:09-GMT	Blow 111° / 2,553 m	Direction: West	Slow travel
11:14:00 PDT 18:14-GMT	Blow 116° / 2,094 m	Direction: West	Slow travel
11:21:00 PDT 18:21-GMT	Blow 133° / 1,228 m	Direction: West	Slow travel
11:26:00 PDT 18:26-GMT	Blow 148° / 812 m	Direction: West	Slow travel • Fluke
11:32:00 PDT 18:32-GMT	Blow 224° / 715 m	Direction: West	Slow travel
11:37:00 PDT 18:37-GMT	Blow 256° / 1,228 m	Direction: West	Slow travel Inside / Outside
05	Poor - 1	Total 2 — 0 Calves at sighting	
11:36:00 PDT 18:36-GMT	Blow 131° / 675 m	Direction: West	Slow travel
11:43:00 PDT 18:43-GMT	Body 191° / 551 m	Direction: West	Slow travel
11:45:00 PDT 18:45-GMT	Blow 207° / 505 m	Direction: West	Slow travel
11:47:00 PDT 18:47-GMT	Blow 220° / 505 m	Direction: West	Slow travel ND / ND
06	Poor - 1	Total 2 — 0 Calves at sighting	
12:27:00 PDT 19:27-GMT	Blow 113° / 1,778 m	Direction: West	Slow travel • Fluke
12:34:00 PDT 19:34-GMT	Blow 127° / 871 m	Direction: West	Slow travel
12:35:00 PDT 19:35-GMT	Blow 138° / 761 m	Direction: West	Slow travel
12:38:00 PDT 19:38-GMT	Blow 159° / 551 m	Direction: West	Slow travel
12:45:00 PDT 19:45-GMT	Blow 238° / 551 m	Direction: West	Slow travel
12:47:00 PDT 19:47-GMT	Blow 257° / 715 m	Direction: West	Slow travel
12:49:00 PDT 19:49-GMT	Blow 264° / 812 m	Direction: West	Slow travel Inside / ND
09	Poor - 1	Total 3 — 0 Calves at sighting	
13:13:00 PDT 20:13-GMT	Blow 136° / 871 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	13:18:00 PDT 20:18-GMT	Blow 180° / 715 m Direction: West	Slow travel	
	13:23:00 PDT 20:23-GMT	Blow 226° / 639 m Direction: West	Slow travel	
	13:26:00 PDT 20:26-GMT	Blow 243° / 871 m Direction: West	Slow travel	
	13:29:00 PDT 20:29-GMT	Blow 256° / 1,019 m Direction: West	Slow travel	Inside / Outside
12	Poor - 1	Total 1 — 0 Calves at sighting		
	13:54:00 PDT 20:54-GMT	Blow 111° / 2,094 m Direction: West	Slow travel	
	14:00:00 PDT 21:00-GMT	Blow 123° / 1,294 m Direction: West	Slow travel	
	14:05:00 PDT 21:05-GMT	Blow 136° / 871 m Direction: West	Slow travel	
	14:07:00 PDT 21:07-GMT	ni 149° / 715 m Direction: West	Slow travel	
	14:09:00 PDT 21:09-GMT	Blow 155° / 607 m Direction: West	Slow travel	ND / ND
14	Poor - 1	Total 3 — 0 Calves at sighting		
	14:44:00 PDT 21:44-GMT	Blow 125° / 1,778 m Direction: West	Slow travel	
	14:48:00 PDT 21:48-GMT	Blow 135° / 1,228 m Direction: West	Slow travel	
	14:51:00 PDT 21:51-GMT	Blow 149° / 871 m Direction: West	Slow travel	
	14:53:00 PDT 21:53-GMT	Blow 161° / 840 m Direction: West	Slow travel • Fluke	
	15:03:00 PDT 22:03-GMT	Body 234° / 840 m Direction: West	Slow travel • Fluke	Inside / Outside
16	Poor - 1	Total 3 — 0 Calves at sighting		
	15:14:00 PDT 22:14-GMT	Blow 152° / 2,553 m Direction: West	Slow travel	
	15:42:00 PDT 22:42-GMT	Blow 210° / 2,094 m Direction: West	Slow travel • Fluke	
	15:48:00 PDT 22:48-GMT	ni 223° / 2,094 m Direction: West	Slow travel	Inside / Outside
18	Poor - 1	Total 3 — 0 Calves at sighting		
	15:52:00 PDT 22:52-GMT	Blow 122° / 2,094 m Direction: West	Slow travel	
	15:55:00 PDT 22:55-GMT	Blow 129° / 1,228 m Direction: West	Slow travel • Fluke	
	15:58:00 PDT 22:58-GMT	Blow 142° / 840 m Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≅ Beaufort 4

16:01:00 PDT 23:01-GMT	Blow 155° / 761 m Direction: West	Slow travel	
16:03:00 PDT 23:03-GMT	Body 174° / 607 m Direction: West	Slow travel	
16:05:00 PDT 23:05-GMT	Body 177° / 551 m Direction: West	Slow travel	
16:07:00 PDT 23:07-GMT	Blow 195° / 505 m Direction: West	Slow travel	
16:08:00 PDT 23:08-GMT	Body 209° / 607 m Direction: West	Slow travel • Rolling • Fluke	
<i>possible mating behavior</i>			
16:12:00 PDT 23:12-GMT	Blow 229° / 715 m Direction: West	Slow travel	
16:15:00 PDT 23:15-GMT	Blow 245° / 840 m Direction: West	Slow travel	
16:19:00 PDT 23:19-GMT	Blow 260° / 1,019 m Direction: West	Slow travel	
16:22:00 PDT 23:22-GMT	Blow 264° / 1,294 m Direction: West	Slow travel	Inside / Outside

20 Fair - 1 Total 1 — 0 Calves at sighting

16:12:00 PDT 23:12-GMT	Body 135° / 607 m Direction: West	not indicated	
16:17:00 PDT 23:17-GMT	Blow 170° / 449 m Direction: West	Slow travel	Inside / ND

Juvenile whale - erratic behavior - hard to track

22 Fair - 1 Total 2 — 1 Calf at sighting

16:47:00 PDT 23:47-GMT	ni 267° / 551 m Direction: West	Slow travel	
16:49:00 PDT 23:49-GMT	ni 282° / 812 m Direction: West	Slow travel	
16:58:00 PDT 23:58-GMT	Blow 294° / 800 m Direction: West	Slow travel	Inside / Inside

Thought it was one whale, when a bystander asked us if we had seen the whales (plural). We said "whales?" and looked beyond the surf at Sands beach where momma and calf were spyhopping - many times.

Mar 18 Total 21 Calves 0
Day 49 of 105

Er Gray whale (northbound)

03 Poor - 1 Total 4 — 0 Calves at sighting

9:09:00 PDT 16:09-GMT	Blow 104° / 2,553 m Direction: West	not indicated	
9:12:00 PDT 16:12-GMT	Blow 110° / 2,553 m Direction: West	Slow travel	
9:16:00 PDT 16:16-GMT	Blow 114° / 2,553 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

9:21:00 PDT	Blow			
16:21-GMT	123° / 1,369 m	Direction: West	Slow travel	
9:26:00 PDT	Blow			
16:26-GMT	136° / 812 m	Direction: West	Slow travel • Fluke	
9:27:00 PDT	Blow			
16:27-GMT	149° / 551 m	Direction: West	Slow travel • Fluke	
9:29:00 PDT	Blow			
16:29-GMT	176° / 551 m	Direction: West	Slow travel • Fluke	
<i>possible mating behavior</i>				
9:32:00 PDT	Body			
16:32-GMT	226° / 551 m	Direction: West	Slow travel • Fluke	
9:34:00 PDT	Body			
16:34-GMT	237° / 527 m	Direction: West	Slow travel	
9:36:00 PDT	Blow			
16:36-GMT	261° / 1,228 m	Direction: West	Slow travel	
9:40:00 PDT	Body			
16:40-GMT	275° / 1,546 m	Direction: West	Slow travel	
9:43:00 PDT	Blow			
16:43-GMT	280° / 1,778 m	Direction: West	Slow travel	Inside / Through
05	Poor - 1	Total 3 — 0 Calves at sighting		
9:30:00 PDT	Blow			
16:30-GMT	220° / 2,094 m	Direction: West	Slow travel • Fluke	
9:32:00 PDT	Blow			
16:32-GMT	224° / 1,778 m	Direction: West	Slow travel	
9:39:00 PDT	Blow			
16:39-GMT	247° / 2,553 m	Direction: West	Slow travel	
9:41:00 PDT	Body			
16:41-GMT	251° / 2,553 m	Direction: West	Slow travel • Fluke	
9:47:00 PDT	Blow			
16:47-GMT	259° / 2,872 m	Direction: West	Slow travel • Fluke	Inside / Outside
07	Fair - 2	Total 2 — 0 Calves at sighting		
10:44:00 PDT	Blow			
17:44-GMT	136° / 3,288 m	Direction: West	Slow travel	
10:48:00 PDT	Blow			
17:48-GMT	140° / 3,288 m	Direction: West	Slow travel	
10:59:00 PDT	Blow			
17:59-GMT	156° / 3,288 m	Direction: West	not indicated	
11:12:00 PDT	Blow			
18:12-GMT	193° / 1,778 m	Direction: West	not indicated	ND / Outside
10	Poor - 2	Total 3 — 0 Calves at sighting		
11:22:00 PDT	Blow			
18:22-GMT	176° / 1,228 m	Direction: West	Slow travel • Rolling	
11:27:00 PDT	Blow			
18:27-GMT	204° / 1,019 m	Direction: West	Slow travel • Rolling	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	11:30:00 PDT	Blow			
	18:30-GMT	223° / 1,228 m	Direction: West	Slow travel • Fluke	
	11:33:00 PDT	Blow			Inside /
	18:33-GMT	237° / 1,228 m	Direction: West	Slow travel	Outside
11	Poor - 2	Total 3 — 0 Calves at sighting			
	11:36:00 PDT	Blow			
	18:36-GMT	199° / 607 m	Direction: West	Slow travel • Rolling • Fluke	
	11:41:00 PDT	Blow			
	18:41-GMT	241° / 1,294 m	Direction: West	Slow travel	
	11:44:00 PDT	Blow			Inside /
	18:44-GMT	251° / 1,294 m	Direction: West	Slow travel	Outside
18	Poor - 2	Total 2 — 0 Calves at sighting			
	14:17:00 PDT	Blow			
	21:17-GMT	111° / 2,553 m	Direction: West	not indicated	
	14:21:00 PDT	Blow			
	21:21-GMT	118° / 2,094 m	Direction: West	not indicated	
	14:22:00 PDT	Blow			
	21:22-GMT	119° / 1,778 m	Direction: West	Slow travel • Fluke	
	14:25:00 PDT	Blow			
	21:25-GMT	127° / 1,369 m	Direction: West	not indicated	
	14:30:00 PDT	Blow			
	21:30-GMT	142° / 939 m	Direction: West	not indicated	
	14:37:00 PDT	Body			
	21:37-GMT	187° / 675 m	Direction: West	not indicated	
	14:38:00 PDT	Blow			
	21:38-GMT	200° / 639 m	Direction: West	Fluke	
	14:43:00 PDT	Body			
	21:43-GMT	223° / 1,019 m	Direction: West	Breach	
	14:44:00 PDT	Blow			
	21:44-GMT	230° / 1,019 m	Direction: West	not indicated	
	14:46:00 PDT	Body			
	21:46-GMT	240° / 1,228 m	Direction: West	not indicated	
	14:51:00 PDT	Blow			Inside /
	21:51-GMT	257° / 1,546 m	Direction: West	not indicated	Outside
22	Poor - 1	Total 1 — 0 Calves at sighting			
	14:52:00 PDT	Blow			
	21:52-GMT	265° / 3,288 m	Direction: West	Slow travel	
	14:53:00 PDT	Blow			ND / ND
	21:53-GMT	267° / 3,288 m	Direction: West	Slow travel	
23	Poor - 1	Total 3 — 0 Calves at sighting			
	15:00:00 PDT	Blow			
	22:00-GMT	114° / 2,094 m	Direction: West	Slow travel • Fluke	
	15:09:00 PDT	Blow			
	22:09-GMT	125° / 1,546 m	Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

15:15:00 PDT	Blow			
22:15-GMT	144° / 607 m	Direction: West	Slow travel • Fluke	
<i>strange spyhop - probable mating behavior</i>				
15:21:00 PDT	Blow			
22:21-GMT	213° / 495 m	Direction: West	Slow travel • Fluke	
15:27:00 PDT	Blow			
22:27-GMT	251° / 840 m	Direction: West	Slow travel	
15:29:00 PDT	Body			Inside /
22:29-GMT	258° / 715 m	Direction: West	Slow travel • Rolling • Fluke	Outside

Mar 19 Total 18 Calves 0
Day 50 of 105

Er Gray whale (northbound)

04	Poor - 0	Total 1 — 0 Calves at sighting		
9:11:00 PDT	Blow			
16:11-GMT	117° / 1,778 m	Direction: West	Slow travel	
9:19:00 PDT	Blow			
16:19-GMT	124° / 1,546 m	Direction: West	Slow travel	
9:21:00 PDT	Body			
16:21-GMT	131° / 1,228 m	Direction: West	Slow travel	
9:25:00 PDT	Body			
16:25-GMT	154° / 812 m	Direction: West	Slow travel	
9:30:00 PDT	Blow			
16:30-GMT	200° / 675 m	Direction: West	Slow travel	
9:36:00 PDT	Body			Inside /
16:36-GMT	245° / 871 m	Direction: West	Slow travel	Outside
05	Poor - 0	Total 1 — 0 Calves at sighting		
9:39:00 PDT	Blow			
16:39-GMT	116° / 2,094 m	Direction: West	Fluke	
9:49:00 PDT	Body			
16:49-GMT	140° / 1,228 m	Direction: West	Fluke	
10:00:00 PDT	Body			
17:00-GMT	218° / 871 m	Direction: West	Slow travel	
10:01:00 PDT	Blow			Inside /
17:01-GMT	229° / 1,019 m	Direction: West	Slow travel	Outside
09	Poor - 0	Total 3 — 0 Calves at sighting		
10:30:00 PDT	Blow			
17:30-GMT	99° / 2,872 m	Direction: West	Slow travel • Fluke	
10:44:00 PDT	Blow			
17:44-GMT	110° / 2,553 m	Direction: West	Slow travel	
10:45:00 PDT	Blow			
17:45-GMT	112° / 2,553 m	Direction: West	Slow travel • Fluke	
10:51:00 PDT	Body			
17:51-GMT	118° / 2,094 m	Direction: West	Slow travel • Breach • Fluke	
<i>2 breaches</i>				
10:54:00 PDT	Body			
17:54-GMT	125° / 1,778 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	10:55:00 PDT	Blow			
	17:55-GMT	128° / 1,778 m	Direction: West	Slow travel	• Fluke
	10:58:00 PDT	Body			
	17:58-GMT	135° / 1,369 m	Direction: West	Slow travel	• Breach
	11:02:00 PDT	Blow			
	18:02-GMT	152° / 939 m	Direction: West	Slow travel	
	11:06:00 PDT	Blow			
	18:06-GMT	177° / 761 m	Direction: West	Slow travel	• Fluke
	11:12:00 PDT	Blow			
	18:12-GMT	218° / 871 m	Direction: West	Slow travel	
	11:12:00 PDT	Blow			
	18:12-GMT	223° / 812 m	Direction: West	Slow travel	• Fluke
	11:20:00 PDT	Body			
	18:20-GMT	246° / 1,369 m	Direction: West	Slow travel	
	11:22:00 PDT	Blow			
	18:22-GMT	254° / 1,778 m	Direction: West	Slow travel	• Fluke
					Inside / Outside
10	Poor - 0	Total 2 — 0 Calves at sighting			
	10:32:00 PDT	Body			
	17:32-GMT	149° / 1,019 m	Direction: West	Slow travel	
	10:40:00 PDT	Blow			
	17:40-GMT	188° / 871 m	Direction: West	Slow travel	• Fluke
	10:47:00 PDT	Blow			
	17:47-GMT	237° / 1,228 m	Direction: West	Slow travel	
	10:48:00 PDT	Blow			
	17:48-GMT	240° / 1,228 m	Direction: West	Slow travel	• Fluke
					Inside / Outside
15	Poor - 0	Total 2 — 0 Calves at sighting			
	11:43:00 PDT	Blow			
	18:43-GMT	129° / 1,546 m	Direction: West	Slow travel	
	11:44:00 PDT	Blow			
	18:44-GMT	134° / 1,546 m	Direction: West	Slow travel	• Fluke
	11:50:00 PDT	Blow			
	18:50-GMT	164° / 871 m	Direction: West	Slow travel	
	11:52:00 PDT	Blow			
	18:52-GMT	174° / 715 m	Direction: West	Slow travel	• Fluke
	11:56:00 PDT	Body			
	18:56-GMT	215° / 715 m	Direction: West	not indicated	
	11:59:00 PDT	Blow			
	18:59-GMT	244° / 871 m	Direction: West	not indicated	
					Inside / Outside
19	Poor - 0	Total 1 — 0 Calves at sighting			
	13:39:00 PDT	Body			
	20:39-GMT	164° / 485 m	Direction: West	Slow travel	
	13:42:00 PDT	Body			
	20:42-GMT	219° / 505 m	Direction: West	Slow travel	
					Inside / ND

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

21	Poor - 0	Total 4 — 0 Calves at sighting	
14:08:00 PDT 21:08-GMT	Blow 143° / 2,094 m	Direction: West	Slow travel
14:13:00 PDT 21:13-GMT	Blow 155° / 1,546 m	Direction: West	Slow travel
14:15:00 PDT 21:15-GMT	Blow 156° / 1,546 m	Direction: West	Slow travel
14:20:00 PDT 21:20-GMT	Body 190° / 1,369 m	Direction: West	Slow travel
14:25:00 PDT 21:25-GMT	Body 213° / 1,546 m	Direction: West	Slow travel
14:27:00 PDT 21:27-GMT	Blow 223° / 1,546 m	Direction: West	Slow travel
14:40:00 PDT 21:40-GMT	Blow 254° / 2,553 m	Direction: West	Slow travel
			Inside / Outside
23	Fair - 3	Total 4 — 0 Calves at sighting	
16:30:00 PDT 23:30-GMT	Blow 129° / 2,094 m	Direction: West	Slow travel
	<i>Weather: dark, high 3 Beaufort</i>		
16:37:00 PDT 23:37-GMT	Blow 138° / 1,778 m	Direction: West	Slow travel
16:38:00 PDT 23:38-GMT	Blow 144° / 1,778 m	Direction: West	Slow travel
16:44:00 PDT 23:44-GMT	Blow 160° / 1,546 m	Direction: West	Slow travel
16:55:00 PDT 23:55-GMT	Blow 188° / 1,113 m	Direction: West	Slow travel
16:56:00 PDT 23:56-GMT	Blow 192° / 1,113 m	Direction: West	Slow travel
17:01:00 PDT 0:01; 3/20/2007-GMT	Blow 208° / 1,228 m	Direction: West	Slow travel
			Inside / Outside
	<i>at least four (two pairs of mature animals)</i>		

Mar 20 Total 14 Calves 0
Day 51 of 105

Er Gray whale (northbound)

06	Fair - 0	Total 1 — 0 Calves at sighting	
10:44:00 PDT 17:44-GMT	Blow 107° / 2,094 m	Direction: West	Slow travel
10:47:00 PDT 17:47-GMT	Body 111° / 1,778 m	Direction: West	Slow travel
10:52:00 PDT 17:52-GMT	Body 119° / 1,228 m	Direction: West	Slow travel
10:56:00 PDT 17:56-GMT	Blow 126° / 812 m	Direction: West	Slow travel
10:59:00 PDT 17:59-GMT	Blow 139° / 639 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	11:02:00 PDT 18:02-GMT	Body 164° / 466 m Direction: West	Slow travel	
	11:05:00 PDT 18:05-GMT	Body 202° / 433 m Direction: West	Slow travel	
	11:08:00 PDT 18:08-GMT	Blow 231° / 433 m Direction: West	Slow travel	
	11:10:00 PDT 18:10-GMT	Blow 246° / 505 m Direction: West	Slow travel	
	11:11:00 PDT 18:11-GMT	Blow 256° / 505 m Direction: West	Slow travel	
	11:14:00 PDT 18:14-GMT	Blow 277° / 466 m Direction: West	Slow travel	Inside / Inside
08	Fair - 1	Total 3 — 0 Calves at sighting		
	11:15:00 PDT 18:15-GMT	Blow 143° / 715 m Direction: West	Slow travel	
	<i>Patches of 0 + 2 Beaufort</i>			
	11:17:00 PDT 18:17-GMT	Blow 163° / 551 m Direction: West	Slow travel	
	11:23:00 PDT 18:23-GMT	Blow 234° / 578 m Direction: West	Slow travel	
	11:25:00 PDT 18:25-GMT	Body 238° / 578 m Direction: West	Slow travel	
	11:27:00 PDT 18:27-GMT	Blow 264° / 812 m Direction: West	Slow travel	Inside / Through
14	Fair - 1	Total 3 — 0 Calves at sighting		
	14:16:00 PDT 21:16-GMT	Blow 101° / 2,872 m Direction: West	Slow travel • Fluke	
	14:27:00 PDT 21:27-GMT	Blow 106° / 2,553 m Direction: West	Slow travel • Fluke	
	14:34:00 PDT 21:34-GMT	Body 114° / 2,553 m Direction: West	Slow travel • Breach	
	<i>2 breaches - helicopter (not entered in Vessel Log) flew over group of whales</i>			
	14:43:00 PDT 21:43-GMT	Blow 121° / 1,369 m Direction: West	Slow travel • Fluke	
	14:50:00 PDT 21:50-GMT	Body 141° / 939 m Direction: West	Slow travel • Fluke	
	14:56:00 PDT 21:56-GMT	Body 174° / 715 m Direction: West	Slow travel • Fluke	
	15:01:00 PDT 22:01-GMT	Blow 217° / 639 m Direction: West	Slow travel • Fluke	
	15:09:00 PDT 22:09-GMT	Blow 249° / 871 m Direction: West	Slow travel	Inside / Outside
	<i>Weather: amazing contrast between storm to east and sun to west</i>			

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

16	Good - 2	Total 2 — 0 Calves at sighting	
	15:19:00 PDT 22:19-GMT	Blow 113° / 2,872 m Direction: West	Slow travel
	15:33:00 PDT 22:33-GMT	Blow 134° / 1,369 m Direction: West	Slow travel
	15:41:00 PDT 22:41-GMT	Blow 175° / 812 m Direction: West	Slow travel
	15:47:00 PDT 22:47-GMT	Blow 222° / 715 m Direction: West	Slow travel Inside / ND
17	Good - 3	Total 1 — 0 Calves at sighting	
	15:42:00 PDT 22:42-GMT	Blow 204° / 2,094 m Direction: West	Slow travel
	15:51:00 PDT 22:51-GMT	Blow 225° / 1,778 m Direction: West	Slow travel Inside / ND
18	Fair - 4	Total 4 — 0 Calves at sighting	
	16:17:00 PDT 23:17-GMT	Blow 110° / 2,553 m Direction: West	Slow travel
	16:23:00 PDT 23:23-GMT	Blow 116° / 2,553 m Direction: West	Slow travel
	16:32:00 PDT 23:32-GMT	Blow 123° / 1,778 m Direction: West	Slow travel
	16:39:00 PDT 23:39-GMT	Blow 147° / 1,369 m Direction: West	Slow travel
	16:49:00 PDT 23:49-GMT	Blow 194° / 1,019 m Direction: West	Slow travel
	16:59:00 PDT 23:59-GMT	Blow 236° / 1,369 m Direction: West	Slow travel Inside / Outside

Mar 21 Total 20 Calves 1 Er Gray whale (northbound)
Day 52 of 105

02	Poor - 4	Total 1 — 0 Calves at sighting	
	9:23:00 PDT 16:23-GMT	Blow 132° / 715 m Direction: West	Slow travel
	9:27:00 PDT 16:27-GMT	Blow 170° / 418 m Direction: West	Slow travel ND / ND
03	Poor - 4	Total 3 — 0 Calves at sighting	
	10:14:00 PDT 17:14-GMT	Blow 171° / 2,872 m Direction: West	not indicated
	10:16:00 PDT 17:16-GMT	Blow 175° / 2,553 m Direction: West	Slow travel
	10:17:00 PDT 17:17-GMT	Blow 179° / 2,553 m Direction: West	Slow travel
	10:20:00 PDT 17:20-GMT	Blow 187° / 2,553 m Direction: West	Slow travel
	10:31:00 PDT 17:31-GMT	Blow 200° / 2,553 m Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	10:35:00 PDT	Blow			
	17:35-GMT	205° / 2,553 m	Direction: West	Slow travel	
	10:43:00 PDT	Blow			
	17:43-GMT	223° / 2,553 m	Direction: West	Slow travel	
	11:08:00 PDT	Blow			
	18:08-GMT	255° / 2,872 m	Direction: West	Slow travel	
	11:09:00 PDT	Blow			ND / Outside
	18:09-GMT	255° / 3,288 m	Direction: West	Slow travel	
05	Poor - 3	Total 2 — 0 Calves at sighting			
	10:40:00 PDT	Blow			
	17:40-GMT	176° / 551 m	Direction: West	Slow travel	
		<i>originally seen by Condor</i>			
	10:50:00 PDT	Blow			
	17:50-GMT	241° / 1,019 m	Direction: West	Slow travel	
	10:58:00 PDT	Blow			Inside /
	17:58-GMT	272° / 378 m	Direction: West	Slow travel	Through
06	Fair - 3	Total 1 — 0 Calves at sighting			
	11:13:00 PDT	Blow			
	18:13-GMT	182° / 1,228 m	Direction: West	Slow travel	
		<i>Weather: Fair, lack of contrast to east</i>			
	11:17:00 PDT	Body			
	18:17-GMT	190° / 1,778 m	Direction: West	Slow travel	
	11:20:00 PDT	Blow			
	18:20-GMT	199° / 1,778 m	Direction: West	Slow travel	
	11:37:00 PDT	Blow			Inside /
	18:37-GMT	251° / 2,553 m	Direction: West	Slow travel	Outside
07	Fair - 3	Total 1 — 0 Calves at sighting			
	11:21:00 PDT	Blow			
	18:21-GMT	183° / 1,019 m	Direction: West	Slow travel	
	11:26:00 PDT	Blow			
	18:26-GMT	215° / 1,369 m	Direction: West	Slow travel	
	11:28:00 PDT	Blow			Inside /
	18:28-GMT	225° / 1,369 m	Direction: West	Slow travel	Outside
08	Good - 2	Total 2 — 0 Calves at sighting		<i>Disappeared</i>	
	12:04:00 PDT	Blow			
	19:04-GMT	180° / 1,369 m	Direction: West	Slow travel	
	12:05:00 PDT	Body			
	19:05-GMT	180° / 1,546 m	Direction: West	Slow travel • Fluke • Milling	
	12:11:00 PDT	Blow			NI / NI
	19:11-GMT	180° / 1,778 m	Direction: West	Slow travel • Milling	
		<i>unknown behavior - meandering, milling - feeding ? Could not track.</i>			
12	Good - 0	Total 2 — 0 Calves at sighting			
	14:15:00 PDT	Blow			
	21:15-GMT	172° / 2,872 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	14:22:00 PDT	Blow					
	21:22-GMT	184° / 2,872 m	Direction: West	Slow travel	• Fluke		
	14:30:00 PDT	Blow					
	21:30-GMT	197° / 2,872 m	Direction: West	Slow travel			
	14:38:00 PDT	Blow				Outside /	
	21:38-GMT	210° / 2,872 m	Direction: West	Slow travel		Outside	
13	Good - 0	Total 2 — 1 Calf at sighting					
	14:34:00 PDT	Blow					
	21:34-GMT	226° / 607 m	Direction: West	Slow travel			
	14:37:00 PDT	ni					
	21:37-GMT	244° / 485 m	Direction: West	Slow travel			
	14:40:00 PDT	Blow					
	21:40-GMT	267° / 485 m	Direction: West	Slow travel			
	14:45:00 PDT	ni					
	21:45-GMT	284° / 715 m	Direction: West	Slow travel			
	14:48:00 PDT	ni				Inside /	
	21:48-GMT	297° / m	Direction: West	Slow travel		Inside	
		<i>reticles could not be used because of Naples Point</i>					
15	Fair - 0	Total 3 — 0 Calves at sighting					
	15:17:00 PDT	Blow					
	22:17-GMT	192° / 2,872 m	Direction: West	Slow travel			
	15:22:00 PDT	Blow					
	22:22-GMT	200° / 2,553 m	Direction: West	Slow travel	• Fluke		
	15:31:00 PDT	Blow					
	22:31-GMT	221° / 2,872 m	Direction: West	Slow travel			
	15:51:00 PDT	Blow					
	22:51-GMT	239° / 2,872 m	Direction: West	Slow travel			
	16:00:00 PDT	Blow					
	23:00-GMT	249° / 3,288 m	Direction: West	Slow travel			
		<i>Weather: Very light rain - dark - little contrast</i>					
	16:48:00 PDT	Blow				Outside /	
	23:48-GMT	266° / 4,712 m	Direction: West	Slow travel	• Fluke	Outside	
17	Fair - 0	Total 1 — 0 Calves at sighting					
	15:36:00 PDT	Body					
	22:36-GMT	231° / 449 m	Direction: West	Slow travel			
	15:37:00 PDT	Blow					
	22:37-GMT	251° / 715 m	Direction: West	Slow travel			
	15:41:00 PDT	Blow				Inside /	
	22:41-GMT	270° / 939 m	Direction: West	not indicated		Inside	
		<i>Weather: More rain!</i>					
19	Fair - 0	Total 2 — 0 Calves at sighting					
	16:11:00 PDT	Blow					
	23:11-GMT	202° / 1,778 m	Direction: West	Slow travel			
	16:16:00 PDT	Blow					
	23:16-GMT	209° / 1,778 m	Direction: West	Slow travel			

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

16:22:00 PDT 23:22-GMT	Blow 222° / 1,778 m	Direction: West	Slow travel	
16:28:00 PDT 23:28-GMT	ni 234° / 1,778 m	Direction: West	Slow travel	
16:31:00 PDT 23:31-GMT	Blow 242° / 1,778 m	Direction: West	Slow travel	Inside / Outside

disappeared into glare - looked a lot like a calf...

Mar 22 Total 36 Calves 0
Day 53 of 105

Er Gray whale (northbound)

01	Fair - 0	Total 1 — 0 Calves at sighting		
8:51:00 PDT 15:51-GMT	Blow 143° / 607 m	Direction: West	Slow travel	
8:53:00 PDT 15:53-GMT	Blow 156° / 578 m	Direction: West	Slow travel	
8:55:00 PDT 15:55-GMT	Body 192° / 449 m	Direction: West	Slow travel	
8:59:00 PDT 15:59-GMT	Body 239° / 551 m	Direction: West	Slow travel	
9:03:00 PDT 16:03-GMT	Blow 247° / 639 m	Direction: West	Slow travel	
9:08:00 PDT 16:08-GMT	Blow 254° / 1,113 m	Direction: West	Slow travel	
9:18:00 PDT 16:18-GMT	Blow 260° / 2,094 m	Direction: West	Slow travel	Inside / Outside

probably joined with sighting #2

02	Fair - 0	Total 1 — 0 Calves at sighting		
8:52:00 PDT 15:52-GMT	Blow 135° / 675 m	Direction: West	Slow travel	
8:55:00 PDT 15:55-GMT	Blow 156° / 527 m	Direction: West	Slow travel	
8:56:00 PDT 15:56-GMT	Blow 189° / 466 m	Direction: West	Slow travel	
8:58:00 PDT 15:58-GMT	Blow 209° / 433 m	Direction: West	Slow travel	
9:01:00 PDT 16:01-GMT	Blow 235° / 505 m	Direction: West	Slow travel	
9:04:00 PDT 16:04-GMT	ni 241° / 551 m	Direction: West	Slow travel • Rolling	
9:06:00 PDT 16:06-GMT	Blow 252° / 871 m	Direction: West	Slow travel	
9:10:00 PDT 16:10-GMT	Blow 254° / 1,228 m	Direction: West	Slow travel	
9:15:00 PDT 16:15-GMT	Blow 258° / 1,778 m	Direction: West	Slow travel	Inside / Outside

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

03	Fair - 0	Total 1 — 0 Calves at sighting	
8:55:00 PDT 15:55-GMT	Blow 129° / 1,228 m	Direction: West	Slow travel
9:02:00 PDT 16:02-GMT	Blow 157° / 871 m	Direction: West	Slow travel
9:07:00 PDT 16:07-GMT	Body 188° / 812 m	Direction: West	Slow travel • Fluke
9:13:00 PDT 16:13-GMT	Body 229° / 871 m	Direction: West	Slow travel
9:14:00 PDT 16:14-GMT	Body 233° / 871 m	Direction: West	Slow travel • Fluke
9:24:00 PDT 16:24-GMT	Blow 260° / 1,369 m	Direction: West	Slow travel
			Inside / Outside
06	Fair - 1	Total 1 — 0 Calves at sighting	
9:52:00 PDT 16:52-GMT	Blow 120° / 761 m	Direction: West	Slow travel
9:56:00 PDT 16:56-GMT	Blow 145° / 715 m	Direction: West	Slow travel
9:58:00 PDT 16:58-GMT	Blow 160° / 639 m	Direction: West	Slow travel
10:03:00 PDT 17:03-GMT	Blow 203° / 675 m	Direction: West	Slow travel
10:17:00 PDT 17:17-GMT	Blow 250° / 1,778 m	Direction: West	Slow travel
			Inside / Outside
10	Fair - 2	Total 4 — 0 Calves at sighting	
10:51:00 PDT 17:51-GMT	Blow 104° / 2,553 m	Direction: West	Slow travel • Fluke
10:56:00 PDT 17:56-GMT	Blow 111° / 2,553 m	Direction: West	Slow travel • Rolling • Fluke
11:05:00 PDT 18:05-GMT	Blow 124° / 1,369 m	Direction: West	Slow travel • Rolling • Fluke
11:12:00 PDT 18:12-GMT	Blow 141° / 812 m	Direction: West	Slow travel • Fluke
11:18:00 PDT 18:18-GMT	Blow 181° / 715 m	Direction: West	Slow travel • Fluke
11:22:00 PDT 18:22-GMT	Blow 219° / 675 m	Direction: West	Slow travel
11:25:00 PDT 18:25-GMT	Blow 233° / 761 m	Direction: West	Slow travel
11:28:00 PDT 18:28-GMT	Blow 250° / 939 m	Direction: West	Slow travel • Rolling
11:32:00 PDT 18:32-GMT	Blow <i>Images: 5874-83</i> 260° / 1,546 m	Direction: West	Slow travel
			Inside / Outside

Species Totals with Sighting and Tracking, On-Effort, ≅ Beaufort 4

12	Fair - 1	Total 4 — 0 Calves at sighting	
12:46:00 PDT	Blow		
19:46-GMT	123° / 2,553 m	Direction: West	Slow travel
	<i>large group - spread out</i>		
12:50:00 PDT	Blow		
19:50-GMT	126° / 2,553 m	Direction: West	Slow travel
12:56:00 PDT	Blow		
19:56-GMT	133° / 2,094 m	Direction: West	Slow travel • Fluke
12:59:00 PDT	Blow		
19:59-GMT	135° / 2,094 m	Direction: West	Slow travel • Fluke
13:02:00 PDT	Blow		
20:02-GMT	141° / 1,778 m	Direction: West	Slow travel
13:10:00 PDT	ni		
20:10-GMT	147° / 1,778 m	Direction: West	Slow travel
13:15:00 PDT	Blow		
20:15-GMT	164° / 1,778 m	Direction: West	Slow travel • Fluke
13:17:00 PDT	Blow		
20:17-GMT	173° / 2,094 m	Direction: West	Slow travel
13:19:00 PDT	Blow		
20:19-GMT	178° / 2,094 m	Direction: West	Slow travel • Fluke
13:24:00 PDT	Blow		
20:24-GMT	188° / 2,553 m	Direction: West	Slow travel
	<i>white whale</i>		
13:29:00 PDT	Blow		
20:29-GMT	197° / 2,094 m	Direction: West	Slow travel
13:37:00 PDT	Blow		
20:37-GMT	219° / 2,553 m	Direction: West	Slow travel
13:43:00 PDT	Blow		
20:43-GMT	231° / 2,553 m	Direction: West	Slow travel • Fluke
			Inside / Outside
15	Good - 1	Total 3 — 0 Calves at sighting	
13:38:00 PDT	Body		
20:38-GMT	114° / 2,872 m	Direction: West	Slow travel • Fluke
13:43:00 PDT	Blow		
20:43-GMT	126° / 2,553 m	Direction: West	Slow travel • Fluke
13:52:00 PDT	Blow		
20:52-GMT	136° / 2,094 m	Direction: West	Slow travel
13:58:00 PDT	Blow		
20:58-GMT	157° / 1,369 m	Direction: West	Slow travel
14:04:00 PDT	Blow		
21:04-GMT	174° / 1,019 m	Direction: West	Slow travel
14:14:00 PDT	Blow		
21:14-GMT	218° / 939 m	Direction: West	Slow travel
14:17:00 PDT	Blow		
21:17-GMT	236° / 1,019 m	Direction: West	Slow travel • Fluke
			Inside / Outside

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

16	Good - 1	Total 2 — 0 Calves at sighting	
	13:49:00 PDT 20:49-GMT	Blow 133° / 1,369 m Direction: West	Slow travel • Fluke
	13:50:00 PDT 20:50-GMT	Blow 138° / 1,228 m Direction: West	Slow travel
	13:54:00 PDT 20:54-GMT	Blow 150° / 1,019 m Direction: West	Slow travel
	14:01:00 PDT 21:01-GMT	Blow 172° / 871 m Direction: West	Slow travel
	14:05:00 PDT 21:05-GMT	Blow 189° / 761 m Direction: West	not indicated
	14:07:00 PDT 21:07-GMT	Blow 211° / 871 m Direction: West	Slow travel
	14:09:00 PDT 21:09-GMT	Blow 224° / 1,019 m Direction: West	Slow travel
	14:14:00 PDT 21:14-GMT	Blow <i>Images: 5884-6</i> 236° / 639 m Direction: West	Slow travel • Fluke • Breach Inside / Outside
20	Excellent - 1	Total 2 — 0 Calves at sighting	
	14:46:00 PDT 21:46-GMT	Blow 161° / 2,872 m Direction: West	Slow travel
	14:47:00 PDT 21:47-GMT	Blow 163° / 2,872 m Direction: West	Slow travel • Fluke
	14:52:00 PDT 21:52-GMT	Blow 170° / 2,872 m Direction: West	Slow travel
	15:00:00 PDT 22:00-GMT	Blow 181° / 2,872 m Direction: West	Slow travel
	15:07:00 PDT 22:07-GMT	Blow 192° / 2,872 m Direction: West	Slow travel
	15:18:00 PDT 22:18-GMT	Blow 209° / 2,872 m Direction: West	Slow travel
	15:26:00 PDT 22:26-GMT	Blow 222° / 2,872 m Direction: West	Slow travel Outside / Outside
21	Excellent - 1	Total 1 — 0 Calves at sighting	
	14:46:00 PDT 21:46-GMT	Blow 161° / 1,228 m Direction: West	Slow travel
	14:48:00 PDT 21:48-GMT	Body 170° / 1,228 m Direction: West	Slow travel ND / Outside
		<i>very shy / fit whale</i>	
22	Excellent - 1	Total 1 — 0 Calves at sighting	
	15:43:00 PDT 22:43-GMT	Body 159° / 639 m Direction: West	Slow travel
	15:45:00 PDT 22:45-GMT	Body 166° / 578 m Direction: West	Slow travel
	15:51:00 PDT 22:51-GMT	Body 239° / 607 m Direction: West	Slow travel Inside / ND

Species Totals with Sighting and Tracking, On-Effort, ≅ Beaufort 4

23	Excellent - 1	Total 5 — 0 Calves at sighting		
	15:56:00 PDT 22:56-GMT	Blow 194° / 3,288 m	Direction: West	Slow travel
	16:03:00 PDT 23:03-GMT	Blow 202° / 3,288 m	Direction: West	Slow travel
	16:10:00 PDT 23:10-GMT	Blow 214° / 3,288 m	Direction: West	Slow travel • Fluke
	16:18:00 PDT 23:18-GMT	Blow 226° / 3,288 m	Direction: West	Slow travel
				Outside / Outside
				<i>Lots of blowing!</i>
25	Excellent - 1	Total 4 — 0 Calves at sighting		
	16:15:00 PDT 23:15-GMT	Blow 194° / 2,872 m	Direction: West	Slow travel
	16:22:00 PDT 23:22-GMT	Blow 209° / 2,872 m	Direction: West	Slow travel
	16:25:00 PDT 23:25-GMT	Blow 214° / 2,872 m	Direction: West	Slow travel
	16:29:00 PDT 23:29-GMT	Blow 218° / 2,872 m	Direction: West	Slow travel
	16:32:00 PDT 23:32-GMT	Blow 224° / 2,872 m	Direction: West	Slow travel
	16:34:00 PDT 23:34-GMT	Blow 226° / 3,288 m	Direction: West	Slow travel
	16:40:00 PDT 23:40-GMT	Blow 233° / 3,288 m	Direction: West	Slow travel
				NI / NI
26	Good - 2	Total 3 — 0 Calves at sighting		
	16:31:00 PDT 23:31-GMT	Blow 174° / 3,288 m	Direction: West	Slow travel
	16:34:00 PDT 23:34-GMT	Blow 176° / 3,288 m	Direction: West	Slow travel
	16:42:00 PDT 23:42-GMT	Blow 184° / 2,872 m	Direction: West	Slow travel
	16:54:00 PDT 23:54-GMT	Blow 199° / 3,288 m	Direction: West	Slow travel
				NI / NI
28	Good - 2	Total 1 — 0 Calves at sighting		
	16:53:00 PDT 23:53-GMT	Blow 159° / 715 m	Direction: West	Slow travel
				NI / NI
29	Good - 2	Total 2 — 0 Calves at sighting		
	16:57:00 PDT 23:57-GMT	Blow 124° / 1,546 m	Direction: West	Slow travel
	17:00:00 PDT 0:00; 3/23/2007-GMT	Blow 133° / 1,113 m	Direction: West	Slow travel
	17:02:00 PDT 0:02; 3/23/2007-GMT	Blow 139° / 939 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	17:04:00 PDT	Blow			NI / NI
	0:04: 3/23/2007-GMT	142° / 871 m	Direction: West	Slow travel	
Mar 23	Total 28	Calves 1	Er Gray whale (northbound)		
Day 54 of 105					
01	Fair - 0	Total 3 — 0 Calves at sighting			
	9:06:00 PDT	Blow			
	16:06-GMT	114° / 1,778 m	Direction: West	Slow travel	
	9:11:00 PDT	Blow			
	16:11-GMT	124° / 1,546 m	Direction: West	Slow travel	
	9:14:00 PDT	Blow			
	16:14-GMT	132° / 1,546 m	Direction: West	Slow travel	
	9:19:00 PDT	Blow			
	16:19-GMT	155° / 939 m	Direction: West	Slow travel	
	9:26:00 PDT	Body			ND / ND
	16:26-GMT	190° / 871 m	Direction: West	Slow travel	
	<i>disappeared</i>				
03	Fair - 0	Total 2 — 0 Calves at sighting			
	9:10:00 PDT	Blow			
	16:10-GMT	110° / 2,094 m	Direction: West	Slow travel	
	9:14:00 PDT	Blow			
	16:14-GMT	115° / 1,778 m	Direction: West	Slow travel	
	9:19:00 PDT	Blow			
	16:19-GMT	121° / 1,369 m	Direction: West	Slow travel	
	9:22:00 PDT	Blow			
	16:22-GMT	131° / 1,228 m	Direction: West	Slow travel	
	9:33:00 PDT	Body			
	16:33-GMT	174° / 939 m	Direction: West	Slow travel • Fluke	
	9:36:00 PDT	Body			ND / ND
	16:36-GMT	193° / 1,019 m	Direction: West	Slow travel	
	<i>disappeared</i>				
05	Good - 0	Total 2 — 1 Calf at sighting			
	10:14:00 PDT	Blow			
	17:14-GMT	102° / 3,288 m	Direction: West	Slow travel	
	<i>see Comments at end of day</i>				
	10:20:00 PDT	Blow			
	17:20-GMT	103° / 2,872 m	Direction: West	Slow travel	
	10:41:00 PDT	Blow			
	17:41-GMT	106° / 2,872 m	Direction: West	Slow travel	
	10:47:00 PDT	ni			
	17:47-GMT	109° / 2,553 m	Direction: West	Slow travel	
	10:51:00 PDT	ni			
	17:51-GMT	113° / 2,094 m	Direction: West	Slow travel	
	10:53:00 PDT	Blow			
	17:53-GMT	116° / 1,778 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10:58:00 PDT 17:58-GMT	Blow 125° / 1,546 m Direction: West	Slow travel	
11:01:00 PDT 18:01-GMT	Blow 133° / 1,546 m Direction: West	Slow travel	
11:05:00 PDT 18:05-GMT	Blow 145° / 1,228 m Direction: West	Slow travel	
11:07:00 PDT 18:07-GMT	Body 154° / 1,019 m Direction: West	Slow travel	
11:10:00 PDT 18:10-GMT	Blow 176° / 715 m Direction: West	Slow travel	
11:12:00 PDT 18:12-GMT	Body 192° / 761 m Direction: West	Slow travel	
11:13:00 PDT 18:13-GMT	Blow 205° / 761 m Direction: West	Slow travel	
11:15:00 PDT 18:15-GMT	Blow 218° / 812 m Direction: West	Slow travel	
11:16:00 PDT 18:16-GMT	Blow 223° / 840 m Direction: West	Slow travel	
11:17:00 PDT 18:17-GMT	Blow 228° / 871 m Direction: West	Slow travel	
11:18:00 PDT 18:18-GMT	Blow 231° / 871 m Direction: West	Slow travel	Inside / ND
06	Good - 0	Total 2 — 0 Calves at sighting	
10:18:00 PDT 17:18-GMT	Blow 97° / m Direction: West	Slow travel	
	<i>see Comments at end of day</i>		
10:23:00 PDT 17:23-GMT	Blow 97° / 3,288 m Direction: West	Slow travel	
10:26:00 PDT 17:26-GMT	Blow 96° / 3,288 m Direction: West	Slow travel	
10:38:00 PDT 17:38-GMT	Blow 125° / 1,778 m Direction: West	Slow travel	
10:45:00 PDT 17:45-GMT	ni 145° / 1,369 m Direction: West	not indicated	
10:47:00 PDT 17:47-GMT	Blow 161° / 1,019 m Direction: West	Slow travel	Inside / ND
07	Good - 0	Total 2 — 0 Calves at sighting	
10:14:00 PDT 17:14-GMT	Blow 99° / 3,288 m Direction: West	Slow travel	
	<i>see Comments at end of day</i>		
10:17:00 PDT 17:17-GMT	Blow 100° / 2,553 m Direction: West	Slow travel	
10:51:00 PDT 17:51-GMT	Blow 173° / 715 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	10:54:00 PDT 17:54-GMT	Blow 197° / 675 m Direction: West	Slow travel	Inside / ND
08	Good - 0	Total 2 — 0 Calves at sighting		
	11:08:00 PDT 18:08-GMT	Blow 106° / 2,872 m Direction: West	Slow travel	
		see Comments at end of day		
	11:09:00 PDT 18:09-GMT	ni 110° / 2,872 m Direction: West	Slow travel • Fluke	
	11:17:00 PDT 18:17-GMT	Blow 119° / 1,778 m Direction: West	Slow travel	
	11:28:00 PDT 18:28-GMT	Blow 149° / 840 m Direction: West	Slow travel	
	11:29:00 PDT 18:29-GMT	ni 154° / 1,019 m Direction: West	Slow travel • Fluke	
	11:38:00 PDT 18:38-GMT	Blow 219° / 715 m Direction: West	Slow travel	Inside / ND
09	Good - 0	Total 1 — 0 Calves at sighting		
	11:28:00 PDT 18:28-GMT	Blow 111° / 2,094 m Direction: West	Slow travel	
		see Comments at end of day		
	11:31:00 PDT 18:31-GMT	Blow 125° / 1,019 m Direction: West	Slow travel • Fluke	
	11:46:00 PDT 18:46-GMT	Blow 169° / 715 m Direction: West	Slow travel • Fluke	ND / ND
14	Fair - 0	Total 3 — 0 Calves at sighting		
	12:37:00 PDT 19:37-GMT	Body 133° / 675 m Direction: West	Slow travel • Fluke	
	12:41:00 PDT 19:41-GMT	Blow 174° / 449 m Direction: West	Slow travel	
	12:43:00 PDT 19:43-GMT	Blow 201° / 378 m Direction: West	Slow travel	
	12:45:00 PDT 19:45-GMT	Blow 218° / 495 m Direction: West	Slow travel	
	12:55:00 PDT 19:55-GMT	Blow 273° / 1,228 m Direction: West	Slow travel	Inside / Inside
17	Fair - 0	Total 2 — 0 Calves at sighting		
	13:06:00 PDT 20:06-GMT	Blow 203° / 2,553 m Direction: West	Slow travel	ND / ND
19	Fair - 0	Total 1 — 0 Calves at sighting		
	13:18:00 PDT 20:18-GMT	Body 220° / 551 m Direction: West	Slow travel	Inside / ND
22	Fair - 0	Total 2 — 0 Calves at sighting		
	13:45:00 PDT 20:45-GMT	ni 203° / 2,553 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	13:58:00 PDT	Blow			
	20:58-GMT	223° / 2,872 m	Direction: West	Slow travel	
	13:59:00 PDT	Blow			NI / NI
	20:59-GMT	226° / 2,872 m	Direction: West	Slow travel	
23	Fair - 0	Total 1 — 0 Calves at sighting			
	13:59:00 PDT	Blow			
	20:59-GMT	106° / 2,094 m	Direction: West	Slow travel	
	14:06:00 PDT	Blow			
	21:06-GMT	112° / 2,094 m	Direction: West	Slow travel	
	14:08:00 PDT	ni			
	21:08-GMT	116° / 1,369 m	Direction: West	Slow travel	
	14:13:00 PDT	Blow			
	21:13-GMT	124° / 1,228 m	Direction: West	Slow travel	
	14:16:00 PDT	Body			
	21:16-GMT	140° / 675 m	Direction: West	Slow travel	
	14:20:00 PDT	Body			
	21:20-GMT	172° / 551 m	Direction: West	Slow travel • Breach	
	14:23:00 PDT	Blow			
	21:23-GMT	232° / 840 m	Direction: West	Slow travel	
	14:25:00 PDT	Blow			
	21:25-GMT	244° / 812 m	Direction: West	Slow travel	
	14:28:00 PDT	Blow			
	21:28-GMT	256° / 1,113 m	Direction: West	Slow travel	
	14:34:00 PDT	Blow			
	21:34-GMT	276° / 1,546 m	Direction: West	Slow travel	
	14:43:00 PDT	Blow			Inside / Through
	21:43-GMT	288° / 2,094 m	Direction: West	Slow travel	
26	Fair - 0	Total 1 — 0 Calves at sighting			
	14:38:00 PDT	Blow			
	21:38-GMT	265° / 715 m	Direction: West	Slow travel	
	14:41:00 PDT	Blow			
	21:41-GMT	271° / 715 m	Direction: West	Slow travel	
	15:20:00 PDT	Body			NI / NI
	22:20-GMT	296° / 2,872 m	Direction: West	Slow travel • Breach	
	<i>juvenile breached outside of kelp by crew boat - 3 big splashes</i>				
27	Fair - 0	Total 1 — 0 Calves at sighting			
	14:47:00 PDT	Blow			
	21:47-GMT	144° / 715 m	Direction: West	Slow travel	
	14:52:00 PDT	Body			
	21:52-GMT	195° / 551 m	Direction: West	Slow travel	
	14:54:00 PDT	Blow			
	21:54-GMT	235° / 551 m	Direction: West	Slow travel	
	14:55:00 PDT	Blow			Inside / ND
	21:55-GMT	248° / 607 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

29	Fair - 0	Total 1 — 0 Calves at sighting	
	15:19:00 PDT 22:19-GMT	Blow 153° / 715 m Direction: West	Slow travel
	15:23:00 PDT 22:23-GMT	Blow 197° / 578 m Direction: West	Slow travel
	15:28:00 PDT 22:28-GMT	Blow 235° / 871 m Direction: West	Slow travel
	15:34:00 PDT 22:34-GMT	Blow 254° / 1,294 m Direction: West	Slow travel Inside / Outside
32	Fair - 3	Total 1 — 0 Calves at sighting	
	15:55:00 PDT 22:55-GMT	Blow 107° / 2,094 m Direction: West	Slow travel
	16:01:00 PDT 23:01-GMT	Blow 118° / 1,019 m Direction: West	Slow travel
	16:09:00 PDT 23:09-GMT	Blow 158° / 607 m Direction: West	Slow travel
	16:10:00 PDT 23:10-GMT	Body 170° / 485 m Direction: West	Slow travel
	16:15:00 PDT 23:15-GMT	Blow 226° / 551 m Direction: West	Slow travel
	16:25:00 PDT 23:25-GMT	Blow 265° / 505 m Direction: West	Slow travel
	16:29:00 PDT 23:29-GMT	Blow 280° / 551 m Direction: West	Slow travel Inside / Inside
36	Fair - 3	Total 1 — 0 Calves at sighting	
	16:42:00 PDT 23:42-GMT	Blow 110° / 1,778 m Direction: West	Slow travel
	16:45:00 PDT 23:45-GMT	Blow 118° / 1,369 m Direction: West	Slow travel • Fluke
	16:52:00 PDT 23:52-GMT	Blow 156° / 639 m Direction: West	Slow travel
	16:59:00 PDT 23:59-GMT	Blow 230° / 551 m Direction: West	Slow travel Inside / ND

Mar 24 Total 15 Calves 0
Day 55 of 105

		Er Gray whale (northbound)	
02	Fair - 2	Total 2 — 0 Calves at sighting	
	9:15:00 PDT 16:15-GMT	Blow 147° / 449 m Direction: West	Slow travel
	9:17:00 PDT 16:17-GMT	Blow 170° / 418 m Direction: West	Slow travel
	9:18:00 PDT 16:18-GMT	Blow 176° / 356 m Direction: West	Slow travel
	9:22:00 PDT 16:22-GMT	Blow 206° / 390 m Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	9:26:00 PDT 16:26-GMT	Blow 248° / 761 m Direction: West	Slow travel	
	9:30:00 PDT 16:30-GMT	Blow 277° / 1,019 m Direction: West	Slow travel	
	9:33:00 PDT 16:33-GMT	Blow 279° / 871 m Direction: West	Slow travel	
	9:34:00 PDT 16:34-GMT	Blow 282° / 1,228 m Direction: West	Slow travel	
	9:37:00 PDT 16:37-GMT	Blow 287° / 1,228 m Direction: West	Slow travel	Inside / Inside
04	Fair - 2	Total 1 — 0 Calves at sighting		
	9:18:00 PDT 16:18-GMT	Body 183° / 418 m Direction: West	not indicated	
	9:23:00 PDT 16:23-GMT	Blow 209° / 433 m Direction: West	Slow travel	
	9:24:00 PDT 16:24-GMT	Blow 221° / 449 m Direction: West	Slow travel	Inside / ND
05	Fair - 2	Total 2 — 0 Calves at sighting		
	9:40:00 PDT 16:40-GMT	Blow 131° / 871 m Direction: West	Slow travel	
	9:47:00 PDT 16:47-GMT	Blow 167° / 466 m Direction: West	Slow travel	
	9:50:00 PDT 16:50-GMT	Blow 216° / 485 m Direction: West	Slow travel	
	9:51:00 PDT 16:51-GMT	Body 229° / 466 m Direction: West	Slow travel	
	9:53:00 PDT 16:53-GMT	Blow 248° / 495 m Direction: West	Slow travel	Inside / Outside
	<i>Condor on whales with crew boat following</i>			
08	Fair - 2	Total 1 — 0 Calves at sighting		
	10:58:00 PDT 17:58-GMT	Blow 132° / 1,228 m Direction: West	Slow travel • Fluke	
	11:02:00 PDT 18:02-GMT	Blow 145° / 939 m Direction: West	Slow travel • Fluke	
	11:07:00 PDT 18:07-GMT	Blow 179° / 578 m Direction: West	Slow travel	
	11:11:00 PDT 18:11-GMT	Blow 223° / 607 m Direction: West	Slow travel	
	11:19:00 PDT 18:19-GMT	Body 251° / 551 m Direction: West	Slow travel	NI / NI
11	Fair - 0	Total 1 — 0 Calves at sighting		
	13:32:00 PDT 20:32-GMT	Blow 137° / 715 m Direction: West	Slow travel • Fluke	
	13:37:00 PDT 20:37-GMT	Body 179° / 449 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	13:40:00 PDT 20:40-GMT	Body 217° / 433 m Direction: West	Slow travel	Inside / ND
12	Fair - 0	Total 1 — 0 Calves at sighting		
	14:41:00 PDT 21:41-GMT	Blow 115° / 1,546 m Direction: West	Slow travel	
		<i>@ 14:16 200°/0 Garibaldi doing side-scan sonar transects - may have been in area yesterday, but too far out for Vessel Log</i>		
	14:48:00 PDT 21:48-GMT	Body 130° / 1,228 m Direction: West	Slow travel	
		<i>fast, private boat traveled west along kelp over submerged whale</i>		
	14:51:00 PDT 21:51-GMT	Body 137° / 1,019 m Direction: West	Slow travel	
	14:52:00 PDT 21:52-GMT	Blow 141° / 1,019 m Direction: West	Slow travel • Fluke	
	14:58:00 PDT 21:58-GMT	Body / m Direction: West	Slow travel	
		<i>@ 14:57 boat traveling east over submerged whale</i>		
	15:03:00 PDT 22:03-GMT	Body 209° / 840 m Direction: West	Slow travel	
		<i>@ 14:59 another boat going east traveled over submerged whale and @ 15:00 a boat traveled close, inside (closer to shore) whale</i>		
	15:07:00 PDT 22:07-GMT	Body 226° / 871 m Direction: West	Slow travel	
	15:08:00 PDT 22:08-GMT	Body 235° / 939 m Direction: West	Slow travel • Fluke	Inside / Outside
13	Fair - 0	Total 1 — 0 Calves at sighting		
	15:43:00 PDT 22:43-GMT	Body 146° / 1,369 m Direction: West	Slow travel • Fluke	ND / ND
14	Fair - 0	Total 1 — 0 Calves at sighting		
	16:12:00 PDT 23:12-GMT	Body 160° / 1,546 m Direction: West	Slow travel	
	16:21:00 PDT 23:21-GMT	Body 204° / 1,369 m Direction: West	Slow travel	
	16:26:00 PDT 23:26-GMT	Blow 222° / 1,113 m Direction: West	Slow travel	
	16:29:00 PDT 23:29-GMT	Blow 232° / 1,019 m Direction: West	Slow travel	Inside / Outside
15	Fair - 2	Total 2 — 0 Calves at sighting		
	16:14:00 PDT 23:14-GMT	Blow 176° / 2,553 m Direction: West	Slow travel	
	16:17:00 PDT 23:17-GMT	Blow 181° / 2,553 m Direction: West	Slow travel	
	16:23:00 PDT 23:23-GMT	Blow 195° / 2,553 m Direction: West	Slow travel	ND / Outside

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

16	Fair - 2	Total 1 — 0 Calves at sighting	
16:32:00 PDT 23:32-GMT	Blow	125° / 2,094 m Direction: West	Slow travel
16:38:00 PDT 23:38-GMT	Blow	131° / 2,094 m Direction: West	Slow travel
16:43:00 PDT 23:43-GMT	Blow	135° / 2,094 m Direction: West	Slow travel
16:49:00 PDT 23:49-GMT	Blow	144° / 2,094 m Direction: West	Slow travel
16:55:00 PDT 23:55-GMT	Blow	155° / 1,546 m Direction: West	Slow travel
17:00:00 PDT 0:00; 3/25/2007-GMT	Blow	170° / 1,369 m Direction: West	Slow travel ND / ND
17	Fair - 2	Total 2 — 0 Calves at sighting	
16:57:00 PDT 23:57-GMT	Blow	133° / 1,113 m Direction: West	Slow travel
17:02:00 PDT 0:02; 3/25/2007-GMT	ni	162° / 871 m Direction: West	Slow travel ND / ND

Mar 25 Total 19 Calves 0
Day 56 of 105

Er Gray whale (northbound)

01	Poor - 0	Total 1 — 0 Calves at sighting	
8:55:00 PDT 15:55-GMT	Blow	135° / 551 m Direction: West	Slow travel
8:59:00 PDT 15:59-GMT	Body	179° / 495 m Direction: West	Slow travel
9:03:00 PDT 16:03-GMT	ni	216° / 433 m Direction: West	Slow travel
9:07:00 PDT 16:07-GMT	Body	258° / 761 m Direction: West	Slow travel Inside / ND
03	Poor - 0	Total 1 — 0 Calves at sighting	
10:06:00 PDT 17:06-GMT	Blow	230° / 551 m Direction: West	Slow travel Inside / ND
<i>Saw disturbance in water at 150°, tracked, then saw blow + body</i>			
04	Poor - 2	Total 1 — 0 Calves at sighting	
11:31:00 PDT 18:31-GMT	Blow	116° / 1,019 m Direction: West	Slow travel
11:34:00 PDT 18:34-GMT	Blow	120° / 715 m Direction: West	Slow travel
11:50:00 PDT 18:50-GMT	Blow	230° / 466 m Direction: West	Slow travel
11:52:00 PDT 18:52-GMT	Body	253° / 485 m Direction: West	Slow travel
12:00:00 PDT 19:00-GMT	Blow	292° / 761 m Direction: West	Slow travel Inside / Inside

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

05	Poor - 2	Total 2 — 0 Calves at sighting	
11:57:00 PDT 18:57-GMT	Blow 106° / 2,553 m	Direction: West	Slow travel
12:02:00 PDT 19:02-GMT	Blow 108° / 2,553 m	Direction: West	Slow travel
12:06:00 PDT 19:06-GMT	Blow 112° / 2,094 m	Direction: West	Slow travel • Fluke
12:14:00 PDT 19:14-GMT	Blow 119° / 1,546 m	Direction: West	Slow travel
12:21:00 PDT 19:21-GMT	Blow 132° / 1,228 m	Direction: West	not indicated
12:24:00 PDT 19:24-GMT	Blow 147° / 840 m	Direction: West	Slow travel • Fluke
12:29:00 PDT 19:29-GMT	Blow 172° / 715 m	Direction: West	Slow travel • Fluke
12:33:00 PDT 19:33-GMT	Blow 209° / 715 m	Direction: West	Slow travel
12:37:00 PDT 19:37-GMT	Blow 234° / 871 m	Direction: West	Slow travel
			Inside / Outside
06	Poor - 2	Total 7 — 0 Calves at sighting	
12:47:00 PDT 19:47-GMT	Blow 149° / 2,094 m	Direction: West	Slow travel
12:53:00 PDT 19:53-GMT	Blow 163° / 1,778 m	Direction: West	Slow travel
12:56:00 PDT 19:56-GMT	Blow 169° / 1,546 m	Direction: West	Slow travel
13:01:00 PDT 20:01-GMT	Blow 183° / 2,094 m	Direction: West	Slow travel
13:03:00 PDT 20:03-GMT	Blow 193° / 2,094 m	Direction: West	Slow travel
13:07:00 PDT 20:07-GMT	ni 205° / 2,553 m	Direction: West	Slow travel • Rolling • Fluke
13:10:00 PDT 20:10-GMT	Blow 216° / 2,872 m	Direction: West	Slow travel
13:12:00 PDT 20:12-GMT	Blow 223° / 2,872 m	Direction: West	Slow travel • Fluke
13:19:00 PDT 20:19-GMT	Blow 232° / 2,553 m	Direction: West	Slow travel • Fluke
13:23:00 PDT 20:23-GMT	ni 246° / 2,094 m	Direction: West	• Rolling • Fluke
			Inside / Outside
	<i>2 "groups" of 3 + 4, traveling close together,</i>		
07	Fair - 1	Total 3 — 0 Calves at sighting	
13:56:00 PDT 20:56-GMT	Body 214° / 2,872 m	Direction: West	Slow travel • Breach

Species Totals with Sighting and Tracking, On-Effort, ≅ Beaufort 4

	14:05:00 PDT	Blow			
	21:05-GMT	221° / 2,872 m	Direction: West	Slow travel	
	14:08:00 PDT	Blow			
	21:08-GMT	227° / 2,872 m	Direction: West	Slow travel • Fluke	
	14:12:00 PDT	Body			
	21:12-GMT	233° / 2,872 m	Direction: West	Slow travel • Fluke	
	14:16:00 PDT	Blow			
	21:16-GMT	238° / 3,288 m	Direction: West	Slow travel	
	14:19:00 PDT	Blow			Outside /
	21:19-GMT	242° / 3,288 m	Direction: West	Slow travel • Fluke	Outside
08	Fair - 0	Total 1 — 0 Calves at sighting			
	15:35:00 PDT	Body			
	22:35-GMT	146° / 1,369 m	Direction: West	Slow travel	
	15:44:00 PDT	Body			
	22:44-GMT	186° / 1,019 m	Direction: West	Slow travel	
	15:47:00 PDT	Blow			
	22:47-GMT	201° / 1,019 m	Direction: West	Slow travel	
	15:49:00 PDT	Body			
	22:49-GMT	206° / 1,019 m	Direction: West	Slow travel	
	15:58:00 PDT	Body			Inside /
	22:58-GMT	246° / 1,369 m	Direction: West	Slow travel • Fluke	Outside
09	Fair - 0	Total 2 — 0 Calves at sighting			
	16:27:00 PDT	Blow			
	23:27-GMT	114° / 1,778 m	Direction: West	Slow travel	
	16:33:00 PDT	Blow			
	23:33-GMT	125° / 1,369 m	Direction: West	Slow travel	
	16:35:00 PDT	Blow			
	23:35-GMT	132° / 1,228 m	Direction: West	Slow travel • Fluke	
	16:39:00 PDT	Blow			
	23:39-GMT	156° / 871 m	Direction: West	Slow travel	
	16:45:00 PDT	Blow			
	23:45-GMT	204° / 761 m	Direction: West	Slow travel	
	16:48:00 PDT	Blow			
	23:48-GMT	225° / 871 m	Direction: West	Slow travel	
	16:57:00 PDT	Blow			Inside /
	23:57-GMT	234° / 1,019 m	Direction: West	Slow travel • Fluke	Outside
10	Fair - 0	Total 1 — 0 Calves at sighting			
	16:54:00 PDT	Blow			
	23:54-GMT	116° / 1,019 m	Direction: West	Slow travel	
	17:03:00 PDT	Body			
	0:03; 3/26/2007-GMT	154° / 551 m	Direction: West	Slow travel	
	17:08:00 PDT	Blow			
	0:08; 3/26/2007-GMT	215° / 505 m	Direction: West	Slow travel	
	17:11:00 PDT	Blow			
	0:11; 3/26/2007-GMT	238° / 466 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

17:13:00 PDT Body Inside / ND
 0:13: 3/26/2007-GMT 255° / 639 m Direction: West Slow travel

Mar 26 Total 4 Calves 1
 Day 57 of 105

Er Gray whale (northbound)

03	Poor - 2	Total 2 — 1 Calf at sighting	
9:01:00 PDT 16:01-GMT	Blow 111° / 2,872 m	Direction: West	Slow travel
9:06:00 PDT 16:06-GMT	Blow 115° / 1,778 m	Direction: West	Slow travel
9:12:00 PDT 16:12-GMT	Blow 125° / 1,228 m	Direction: West	Slow travel
9:17:00 PDT 16:17-GMT	Blow 148° / 812 m	Direction: West	Slow travel
9:20:00 PDT 16:20-GMT	Blow 170° / 840 m	Direction: West	Slow travel
9:24:00 PDT 16:24-GMT	Blow 199° / 639 m	Direction: West	Slow travel
9:25:00 PDT 16:25-GMT	Body 206° / 485 m	Direction: West	Slow travel
9:29:00 PDT 16:29-GMT	Blow 250° / 639 m	Direction: West	Slow travel
9:31:00 PDT 16:31-GMT	Blow 250° / 639 m	Direction: West	Slow travel • Fluke
9:37:00 PDT 16:37-GMT	Blow 276° / 1,228 m	Direction: West	Slow travel • Fluke Inside / Through
09	Poor - 2	Total 2 — 0 Calves at sighting	<i>Disappeared</i>
9:44:00 PDT 16:44-GMT	Body 154° / 505 m	Direction: West	Slow travel ND / ND
	<i>disappeared</i>		

Mar 28 Total 6 Calves 0
 Day 59 of 105

Er Gray whale (northbound)

01	Fair - 4	Total 5 — 0 Calves at sighting	
9:06:00 PDT 16:06-GMT	Blow 152° / 2,872 m	Direction: West	Slow travel
9:09:00 PDT 16:09-GMT	Blow 156° / 2,872 m	Direction: West	Slow travel
9:12:00 PDT 16:12-GMT	Blow 161° / 2,553 m	Direction: West	Slow travel
9:15:00 PDT 16:15-GMT	Blow 168° / 2,553 m	Direction: West	Slow travel
9:21:00 PDT 16:21-GMT	Blow 178° / 2,094 m	Direction: West	Slow travel
9:25:00 PDT 16:25-GMT	Blow 186° / 2,094 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

9:30:00 PDT	Blow		
16:30-GMT	197° / 2,553 m	Direction: West	Slow travel
9:34:00 PDT	Blow		
16:34-GMT	206° / 2,553 m	Direction: West	Slow travel
9:39:00 PDT	Blow		Outside /
16:39-GMT	215° / 2,872 m	Direction: West	Slow travel Outside

02 Fair - 4 Total 1 — 0 Calves at sighting

9:45:00 PDT	Blow		
16:45-GMT	134° / 639 m	Direction: West	Slow travel
9:48:00 PDT	Blow		
16:48-GMT	151° / 527 m	Direction: West	Slow travel
9:53:00 PDT	Body		
16:53-GMT	216° / 485 m	Direction: West	Slow travel
9:56:00 PDT	Blow		
16:56-GMT	244° / 527 m	Direction: West	Slow travel
10:04:00 PDT	Blow		Inside /
17:04-GMT	275° / 761 m	Direction: West	Slow travel Inside

Mar 29 Total 17 Calves 1
Day 60 of 105

Er Gray whale (northbound)

02 Good - 0 Total 2 — 1 Calf at sighting

9:13:00 PDT	Blow		
16:13-GMT	113° / 1,778 m	Direction: West	Slow travel
9:16:00 PDT	Blow		
16:16-GMT	118° / 1,228 m	Direction: West	Slow travel
9:21:00 PDT	Blow		
16:21-GMT	131° / 840 m	Direction: West	Slow travel
9:22:00 PDT	Blow		
16:22-GMT	138° / 715 m	Direction: West	Slow travel
9:27:00 PDT	Body		
16:27-GMT	178° / 466 m	Direction: West	Slow travel
9:28:00 PDT	Body		
16:28-GMT	199° / 485 m	Direction: West	Slow travel
9:31:00 PDT	Body		
16:31-GMT	226° / 485 m	Direction: West	Slow travel
9:33:00 PDT	Body		
16:33-GMT	244° / 551 m	Direction: West	Slow travel
9:35:00 PDT	Blow		Inside / ND
16:35-GMT	251° / 715 m	Direction: West	Slow travel

03 Good - 0 Total 1 — 0 Calves at sighting

10:16:00 PDT	Body		Inside / ND
17:16-GMT	216° / 356 m	Direction: West	Slow travel

Saw back - no other sighting

04 Good - 0 Total 1 — 0 Calves at sighting

10:20:00 PDT	Blow		
17:20-GMT	109° / 2,553 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	10:26:00 PDT 17:26-GMT	Blow 113° / 2,553 m	Direction: West	Slow travel	
	10:31:00 PDT 17:31-GMT	Blow 124° / 1,778 m	Direction: West	Slow travel	
	10:39:00 PDT 17:39-GMT	Blow 146° / 1,019 m	Direction: West	Slow travel	
	10:49:00 PDT 17:49-GMT	Body 202° / 1,228 m	Direction: West	Slow travel	Inside / Outside
05	Good - 0	Total 3 — 0 Calves at sighting			
	11:01:00 PDT 18:01-GMT	Blow 116° / 1,778 m	Direction: West	Slow travel	
	11:08:00 PDT 18:08-GMT	Blow 133° / 1,019 m	Direction: West	Slow travel • Fluke	
	11:16:00 PDT 18:16-GMT	Body 182° / 639 m	Direction: West	Slow travel	
	11:27:00 PDT 18:27-GMT	Blow 260° / 1,369 m	Direction: West	Slow travel	Inside / Outside
	<i>private fishing vessel approached from rear - another from front</i>				
06	Good - 1	Total 1 — 0 Calves at sighting			
	11:31:00 PDT 18:31-GMT	Blow 169° / 1,778 m	Direction: West	Slow travel	
	11:47:00 PDT 18:47-GMT	Body 204° / 1,546 m	Direction: West	Slow travel	Inside / ND
07	Good - 2	Total 3 — 0 Calves at sighting			
	12:40:00 PDT 19:40-GMT	Blow 133° / 3,288 m	Direction: West	Slow travel • Fluke	
	12:48:00 PDT 19:48-GMT	Blow 143° / 2,872 m	Direction: West	Slow travel	
	12:54:00 PDT 19:54-GMT	Blow 151° / 2,872 m	Direction: West	Slow travel • Fluke	
	13:01:00 PDT 20:01-GMT	Blow 156° / 2,553 m	Direction: West	Slow travel • Fluke	
	13:02:00 PDT 20:02-GMT	Blow 171° / 2,553 m	Direction: West	Slow travel	
	13:15:00 PDT 20:15-GMT	Blow 179° / 2,553 m	Direction: West	Slow travel	
	13:19:00 PDT 20:19-GMT	Blow 184° / 2,553 m	Direction: West	Slow travel	
	13:33:00 PDT 20:33-GMT	Blow 199° / 2,553 m	Direction: West	Slow travel	
	13:41:00 PDT 20:41-GMT	Blow 218° / 2,553 m	Direction: West	Slow travel	
	13:46:00 PDT 20:46-GMT	ni 225° / 2,553 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

13:50:00 PDT	Blow			
20:50-GMT	230° / 2,553 m	Direction: West	Slow travel	
13:54:00 PDT	Blow			Outside /
20:54-GMT	234° / 2,872 m	Direction: West	Slow travel	Outside

2 + 1 with single leading by about 200 meters

08	Good - 2	Total 4 — 0 Calves at sighting		
13:08:00 PDT	Blow			
20:08-GMT	178° / 3,288 m	Direction: West	Slow travel	
13:21:00 PDT	Blow			
20:21-GMT	191° / 3,288 m	Direction: West	Slow travel • Fluke	
13:30:00 PDT	Blow			
20:30-GMT	195° / 4,712 m	Direction: West	Slow travel • Fluke	
13:36:00 PDT	Blow			
20:36-GMT	201° / 4,712 m	Direction: West	Slow travel • Fluke	
13:48:00 PDT	Blow			
20:48-GMT	210° / 4,712 m	Direction: West	Slow travel • Fluke	
13:57:00 PDT	Blow			Outside /
20:57-GMT	214° / 3,288 m	Direction: West	Slow travel • Fluke	Outside

09	Fair - 4	Total 2 — 0 Calves at sighting	<i>Disappeared</i>	
16:27:00 PDT	Blow			
23:27-GMT	126° / 1,778 m	Direction: West	Slow travel	
16:29:00 PDT	Blow			ND / ND
23:29-GMT	129° / 1,778 m	Direction: West	Slow travel	

Disappeared in white-caps + glare. Beaufort 5, 1 nm out.

Mar 30 Total 6 Calves 1
Day 61 of 105

Er Gray whale (northbound)

03	Good - 0	Total 2 — 1 Calf at sighting		
12:39:00 PDT	Body			
19:39-GMT	124° / 715 m	Direction: West	Slow travel	
12:41:00 PDT	Body			
19:41-GMT	136° / 551 m	Direction: West	Slow travel	
12:42:00 PDT	Blow			
19:42-GMT	142° / 505 m	Direction: West	Slow travel	
12:48:00 PDT	Blow			
19:48-GMT	195° / 449 m	Direction: West	Slow travel	
12:52:00 PDT	Body			
19:52-GMT	250° / 505 m	Direction: West	Slow travel	
12:54:00 PDT	Body			
19:54-GMT	271° / 715 m	Direction: West	Slow travel	
12:58:00 PDT	Body			Inside /
19:58-GMT	285° / 840 m	Direction: West	Slow travel	Inside
06	Good - 2	Total 4 — 0 Calves at sighting		
15:59:00 PDT	Blow			
22:59-GMT	110° / 2,553 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

16:04:00 PDT	ni			
23:04-GMT	115° / 1,778 m	Direction: West	Slow travel	
16:16:00 PDT	Blow			
23:16-GMT	146° / 1,228 m	Direction: West	Slow travel	
16:21:00 PDT	Blow			
23:21-GMT	169° / 1,019 m	Direction: West	Slow travel	
16:29:00 PDT	Blow			
23:29-GMT	214° / 761 m	Direction: West	Slow travel • Rolling	
16:35:00 PDT	Blow			
23:35-GMT	238° / 939 m	Direction: West	Slow travel	
16:37:00 PDT	Blow			Inside /
23:37-GMT	242° / 1,113 m	Direction: West	Slow travel	Outside

Mar 31 Total 6 Calves 0
Day 62 of 105

Er Gray whale (northbound)

01	Poor - 1	Total 1 — 0 Calves at sighting		
	8:56:00 PDT	Blow		
	15:56-GMT	134° / 1,019 m	Direction: West	Slow travel
	8:58:00 PDT	Blow		
	15:58-GMT	146° / 1,019 m	Direction: West	Slow travel
	9:04:00 PDT	Blow		
	16:04-GMT	181° / 761 m	Direction: West	Slow travel
	9:13:00 PDT	Body		
	16:13-GMT	245° / 939 m	Direction: West	Slow travel
	9:18:00 PDT	Blow		
	16:18-GMT	270° / 1,228 m	Direction: West	Slow travel
	9:28:00 PDT	Blow		
	16:28-GMT	282° / 2,094 m	Direction: West	Slow travel
				Inside / Through
03	Fair - 1	Total 1 — 0 Calves at sighting		
	9:51:00 PDT	Blow		
	16:51-GMT	166° / 607 m	Direction: West	Slow travel
	9:57:00 PDT	Body		
	16:57-GMT	177° / 466 m	Direction: West	Slow travel • Milling
				ND / ND
04	Fair - 0	Total 2 — 0 Calves at sighting		
	10:19:00 PDT	Blow		
	17:19-GMT	114° / 2,094 m	Direction: West	Slow travel
	10:24:00 PDT	Blow		
	17:24-GMT	121° / 1,546 m	Direction: West	Slow travel
	10:30:00 PDT	Blow		
	17:30-GMT	158° / 607 m	Direction: West	Slow travel
	10:31:00 PDT	170° / 505 m	Direction: West	Slow travel • Bubbles seen
	17:31-GMT			
		<i>Saw bubble blast - did not see animal at this position</i>		
	10:36:00 PDT	Body		
	17:36-GMT	216° / 578 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

10:43:00 PDT	Body			Inside /
17:43-GMT	247° / 1,228 m	Direction: West	Slow travel	Outside

suspect calf

05 Fair - 1 Total 2 — 0 Calves at sighting

10:23:00 PDT	ni			
17:23-GMT	112° / 1,778 m	Direction: West	Slow travel	
10:29:00 PDT	Blow			
17:29-GMT	118° / 1,113 m	Direction: West	Slow travel	
10:34:00 PDT	Blow			
17:34-GMT	134° / 551 m	Direction: West	Slow travel	
10:39:00 PDT	Blow			
17:39-GMT	175° / 466 m	Direction: West	Slow travel	
10:43:00 PDT	Blow			
17:43-GMT	204° / 466 m	Direction: West	Slow travel	
10:46:00 PDT	ni			
17:46-GMT	238° / 527 m	Direction: West	Slow travel	
10:51:00 PDT	Blow			
17:51-GMT	268° / 761 m	Direction: West	Slow travel	
10:54:00 PDT	Blow			Inside /
17:54-GMT	278° / 1,113 m	Direction: West	Slow travel	Through

Apr 01 Total 9 Calves 3
Day 63 of 105

Er Gray whale (northbound)

03 Poor - 3 Total 2 — 1 Calf at sighting

11:11:00 PDT	Blow			
18:11-GMT	104° / 2,553 m	Direction: West	Slow travel	
11:16:00 PDT	Blow			
18:16-GMT	109° / 1,778 m	Direction: West	Slow travel	
11:21:00 PDT	Blow			
18:21-GMT	116° / 1,778 m	Direction: West	Slow travel	
11:26:00 PDT	Blow			
18:26-GMT	117° / 1,369 m	Direction: West	Slow travel	
11:28:00 PDT	Blow			
18:28-GMT	118° / 1,369 m	Direction: West	Slow travel	
11:30:00 PDT	Blow			
18:30-GMT	128° / 1,019 m	Direction: West	Slow travel	
11:35:00 PDT	Blow			
18:35-GMT	152° / 761 m	Direction: West	Slow travel	
11:40:00 PDT	Blow			
18:40-GMT	172° / 607 m	Direction: West	Slow travel	
11:46:00 PDT	Blow			
18:46-GMT	211° / 675 m	Direction: West	Slow travel	
11:51:00 PDT	Blow			Inside /
18:51-GMT	252° / 812 m	Direction: West	Slow travel • Rolling	Through

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

11:58:00 PDT	Blow				Inside /
18:58-GMT	274° / 1,228 m	Direction: West	Slow travel		Through

Momma on back quite a while

04 Poor - 3 Total 3 — 0 Calves at sighting *Disappeared*

11:37:00 PDT	Blow				
18:37-GMT	181° / 2,094 m	Direction: West	Slow travel • Fluke		

3 distinct blows - not seen again

05 Poor - 3 Total 2 — 1 Calf at sighting

11:55:00 PDT	Blow				
18:55-GMT	129° / 607 m	Direction: West	Slow travel		

11:58:00 PDT	Blow				
18:58-GMT	149° / 578 m	Direction: West	Slow travel		

12:01:00 PDT	Blow				
19:01-GMT	172° / 418 m	Direction: West	Slow travel		

12:05:00 PDT	Blow				
19:05-GMT	225° / 485 m	Direction: West	Slow travel		

12:11:00 PDT	Blow				Inside / ND
19:11-GMT	260° / 675 m	Direction: West	Slow travel		

09 Fair - 0 Total 2 — 1 Calf at sighting

13:31:00 PDT	Blow				
20:31-GMT	121° / 551 m	Direction: West	Slow travel		

13:35:00 PDT	Blow				
20:35-GMT	140° / 466 m	Direction: West	Slow travel • Rolling • Fluke		

13:38:00 PDT	Blow				
20:38-GMT	169° / 356 m	Direction: West	Slow travel		

13:52:00 PDT	Blow				Inside /
20:52-GMT	286° / 1,228 m	Direction: West	Slow travel		Inside

Apr 02 Total 8 Calves 0
Day 64 of 105

Er Gray whale (northbound)

03 Poor - 3 Total 2 — 0 Calves at sighting

9:37:00 PDT	Blow				
16:37-GMT	113° / 1,778 m	Direction: West	Slow travel		

9:40:00 PDT	Blow				
16:40-GMT	119° / 1,294 m	Direction: West	Slow travel		

9:44:00 PDT	ni				
16:44-GMT	127° / 761 m	Direction: West	Slow travel		

9:49:00 PDT	Blow				
16:49-GMT	158° / 551 m	Direction: West	Slow travel		

9:52:00 PDT	Blow				
16:52-GMT	199° / 485 m	Direction: West	Slow travel		

10:01:00 PDT	Blow				Inside /
17:01-GMT	269° / 1,228 m	Direction: West	Slow travel		Through

Weather: still gray - changing light - better contrast - less wind

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

04	Poor - 3	Total 2 — 0 Calves at sighting	
9:44:00 PDT 16:44-GMT	Blow 126° / 2,872 m	Direction: West	Slow travel
10:08:00 PDT 17:08-GMT	Blow 144° / 2,094 m	Direction: West	Slow travel
10:13:00 PDT 17:13-GMT	Blow 154° / 1,546 m	Direction: West	Slow travel • Fluke
10:17:00 PDT 17:17-GMT	Blow 162° / 1,369 m	Direction: West	Slow travel • Milling
10:20:00 PDT 17:20-GMT	Blow 177° / 1,019 m	Direction: West	Slow travel
10:22:00 PDT 17:22-GMT	ni 187° / 1,019 m	Direction: West	Slow travel • Fluke
10:30:00 PDT 17:30-GMT	Blow 222° / 871 m	Direction: West	Slow travel • Fluke
10:53:00 PDT 17:53-GMT	Blow 276° / 2,094 m	Direction: West	Slow travel • Fluke
	<i>Big whales.</i>		Inside / Outside
05	Fair - 2	Total 2 — 0 Calves at sighting	
11:38:00 PDT 18:38-GMT	Blow 109° / 2,872 m	Direction: West	Slow travel
12:00:00 PDT 19:00-GMT	Body 173° / 840 m	Direction: West	Slow travel
	<i>Juveniles snorkeling - swung wide from COP - no blows</i>		ND / ND
09	Fair - 0	Total 2 — 0 Calves at sighting	
16:20:00 PDT 23:20-GMT	Blow 116° / 1,228 m	Direction: West	Slow travel
16:23:00 PDT 23:23-GMT	Body 124° / 840 m	Direction: West	Slow travel
16:25:00 PDT 23:25-GMT	Blow 132° / 871 m	Direction: West	Slow travel • Fluke
16:26:00 PDT 23:26-GMT	Blow 137° / 812 m	Direction: West	Slow travel
16:30:00 PDT 23:30-GMT	Blow 169° / 551 m	Direction: West	Slow travel
16:34:00 PDT 23:34-GMT	Blow 224° / 551 m	Direction: West	Slow travel • Fluke
16:38:00 PDT 23:38-GMT	Blow 250° / 675 m	Direction: West	Slow travel
16:39:00 PDT 23:39-GMT	Blow 249° / 871 m	Direction: West	Slow travel • Fluke
16:40:00 PDT 23:40-GMT	Blow 254° / 1,019 m	Direction: West	Slow travel • Fluke
16:46:00 PDT 23:46-GMT	Blow <i>Images: 5918-20</i> 263° / 1,369 m	Direction: West	Slow travel
			Inside / Outside

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

Apr 03 Total 4 Calves 1
Day 65 of 105

Er Gray whale (northbound)

01	Poor - 0	Total 2 — 1 Calf at sighting	
	11:21:00 PDT 18:21-GMT	Blow 128° / 761 m Direction: West	Slow travel
	11:24:00 PDT 18:24-GMT	Blow 145° / 551 m Direction: West	Slow travel
	11:25:00 PDT 18:25-GMT	Blow 151° / 527 m Direction: West	Slow travel
	11:28:00 PDT 18:28-GMT	Blow 174° / 378 m Direction: West	Slow travel
	11:30:00 PDT 18:30-GMT	Blow 191° / 378 m Direction: West	Slow travel
	11:33:00 PDT 18:33-GMT	Blow 220° / 485 m Direction: West	Slow travel
	11:37:00 PDT 18:37-GMT	Blow 266° / 527 m Direction: West	Slow travel
	11:39:00 PDT 18:39-GMT	Blow <i>Images: 5924-6</i> 282° / 812 m Direction: West	Slow travel Inside / Inside
02	Poor - 0	Total 1 — 0 Calves at sighting	
	12:06:00 PDT 19:06-GMT	Body 137° / 1,228 m Direction: West	Slow travel
	12:07:00 PDT 19:07-GMT	Body 143° / 1,019 m Direction: West	Slow travel
	12:11:00 PDT 19:11-GMT	Body 175° / 675 m Direction: West	Slow travel
	12:17:00 PDT 19:17-GMT	Blow 233° / 939 m Direction: West	Slow travel
	12:23:00 PDT 19:23-GMT	Body 255° / 1,228 m Direction: West	Slow travel Inside / Outside
08	Fair - 1	Total 1 — 0 Calves at sighting	<i>Disappeared</i>
	15:25:00 PDT 22:25-GMT	Body 166° / 551 m Direction: West	Slow travel
		<i>Shy whale</i>	
		<i>Weather: fog cleared, but thick haze</i>	

Apr 05 Total 7 Calves 2
Day 67 of 105

Er Gray whale (northbound)

03	Poor - 0	Total 2 — 1 Calf at sighting	
	11:40:00 PDT 18:40-GMT	Blow 109° / 2,094 m Direction: West	Slow travel
	11:46:00 PDT 18:46-GMT	Blow 114° / 1,778 m Direction: West	Slow travel
	11:54:00 PDT 18:54-GMT	Blow 128° / 1,228 m Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

11:58:00 PDT 18:58-GMT	Blow 147° / 675 m Direction: West	Slow travel	
12:01:00 PDT 19:01-GMT	Blow 169° / 551 m Direction: West	Slow travel	
12:03:00 PDT 19:03-GMT	Blow 164° / 505 m Direction: West	not indicated	
12:06:00 PDT 19:06-GMT	Blow 183° / 466 m Direction: West	not indicated	
12:11:00 PDT 19:11-GMT	Blow 232° / 607 m Direction: West	Slow travel • Fluke	
	<i>calf fluke</i>		
12:14:00 PDT 19:14-GMT	Blow <i>Images: 5927-33</i> 258° / 715 m Direction: West	Slow travel	Inside / Inside

04 Poor - 0 Total 2 — 1 Calf at sighting

12:35:00 PDT 19:35-GMT	Body 163° / 578 m Direction: West	not indicated	
12:40:00 PDT 19:40-GMT	Blow 196° / 485 m Direction: West	not indicated	Inside / ND

06 Fair - 2 Total 1 — 0 Calves at sighting

12:57:00 PDT 19:57-GMT	Blow 181° / 2,872 m Direction: West	Slow travel	
13:01:00 PDT 20:01-GMT	Blow 190° / 2,872 m Direction: West	Slow travel	
13:05:00 PDT 20:05-GMT	Blow 204° / 2,872 m Direction: West	Slow travel	
13:12:00 PDT 20:12-GMT	Blow 224° / 2,872 m Direction: West	Slow travel	
13:14:00 PDT 20:14-GMT	Blow 230° / 2,872 m Direction: West	Slow travel	ND / Outside
	<i>with Condor</i>		

16 Fair - 2 Total 2 — 0 Calves at sighting

16:30:00 PDT 23:30-GMT	Blow 159° / 551 m Direction: West	Slow travel	
16:35:00 PDT 23:35-GMT	Blow 215° / 578 m Direction: West	Slow travel	Inside / ND

Apr 06 Total 4 Calves 0
Day 68 of 105

Er Gray whale (northbound)

07 Poor - 2 Total 1 — 0 Calves at sighting *Disappeared*

13:20:00 PDT 20:20-GMT	Blow 213° / 1,294 m Direction: West	Slow travel • Fluke	Inside / ND
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13 Poor - 2 Total 1 — 0 Calves at sighting

16:01:00 PDT 23:01-GMT	Blow 129° / 1,228 m Direction: West	Slow travel	
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Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

16:11:00 PDT Body Inside / ND
 23:11-GMT 200° / 715 m Direction: West Slow travel
came close to Stardust (interaction not recorded on Vessel Log)

17 Poor - 2 Total 2 — 0 Calves at sighting

16:59:00 PDT Blow
 23:59-GMT 127° / 871 m Direction: West Slow travel

17:00:00 PDT Blow
 0:00; 4/7/2007-GMT 135° / 715 m Direction: West Slow travel

17:01:00 PDT Blow
 0:01; 4/7/2007-GMT 141° / 675 m Direction: West Slow travel

17:06:00 PDT Blow Inside / ND
 0:06; 4/7/2007-GMT 197° / 551 m Direction: West Slow travel

Apr 07 Total 6 Calves 0
 Day 69 of 105

Er Gray whale (northbound)

04 Fair - 1 Total 1 — 0 Calves at sighting

9:52:00 PDT Body
 16:52-GMT 144° / 715 m Direction: West Slow travel

9:56:00 PDT Blow
 16:56-GMT 165° / 551 m Direction: West Slow travel

10:03:00 PDT Blow
 17:03-GMT 240° / 607 m Direction: West Slow travel

10:06:00 PDT Blow
 17:06-GMT 255° / 761 m Direction: West Slow travel

10:15:00 PDT Blow
 17:15-GMT 279° / 1,228 m Direction: West Slow travel

10:22:00 PDT Blow Inside /
 17:22-GMT 284° / 1,228 m Direction: West Slow travel Through
followed by Condor

07 Fair - 0 Total 1 — 0 Calves at sighting

11:15:00 PDT Body
 18:15-GMT 177° / 607 m Direction: West Slow travel

11:18:00 PDT Blow
 18:18-GMT 203° / 551 m Direction: West Slow travel

11:22:00 PDT Body
 18:22-GMT 232° / 715 m Direction: West Slow travel • Fluke

11:27:00 PDT Blow Inside /
 18:27-GMT 261° / 1,228 m Direction: West Slow travel • Fluke Outside

13 Fair - 1 Total 4 — 0 Calves at sighting

13:32:00 PDT Blow
 20:32-GMT 118° / 2,553 m Direction: West Slow travel

13:40:00 PDT Blow
 20:40-GMT 119° / 2,094 m Direction: West Slow travel • Fluke

13:43:00 PDT Blow
 20:43-GMT 114° / 2,094 m Direction: West Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

13:48:00 PDT 20:48-GMT	Blow 114° / 1,546 m Direction: West	Slow travel • Fluke	
13:52:00 PDT 20:52-GMT	Blow 121° / 1,228 m Direction: West	Slow travel	
13:56:00 PDT 20:56-GMT	Blow 128° / 812 m Direction: West	Slow travel	
13:59:00 PDT 20:59-GMT	Blow 164° / 495 m Direction: West	Slow travel • Fluke	
14:00:00 PDT 21:00-GMT	Blow 178° / 449 m Direction: West	Slow travel • Fluke	
14:03:00 PDT 21:03-GMT	Blow 204° / 449 m Direction: West	Slow travel	
14:05:00 PDT 21:05-GMT	Blow 232° / 578 m Direction: West	Slow travel	
14:07:00 PDT 21:07-GMT	Body 244° / 639 m Direction: West	Slow travel • Fluke	
14:08:00 PDT 21:08-GMT	Blow 250° / 840 m Direction: West	Slow travel	
14:11:00 PDT 21:11-GMT	Blow 259° / 1,228 m Direction: West	Slow travel • Fluke	Inside / Outside

Apr 08 Total 6 Calves 1
Day 70 of 105

Er Gray whale (northbound)

05 Poor - 1 Total 2 — 0 Calves at sighting

10:50:00 PDT 17:50-GMT	Blow 230° / 527 m Direction: West	Slow travel	
10:59:00 PDT 17:59-GMT	Blow 267° / 578 m Direction: West	Slow travel	
11:05:00 PDT 18:05-GMT	Blow 251° / 449 m Direction: West	Slow travel • Bubbles seen	
11:13:00 PDT 18:13-GMT	Blow 301° / 800 m Direction: West	Slow travel	Inside / Inside

Probable calf - all the signs, but could not make the ID

09 Fair - 3 Total 1 — 0 Calves at sighting

13:27:00 PDT 20:27-GMT	Blow 133° / 2,553 m Direction: West	Slow travel	
<i>NOTE: Condor identified this as a cow/calf pair. Partly because of the position of the boat, we never saw a second animal.</i>			
13:53:00 PDT 20:53-GMT	Blow 184° / 2,094 m Direction: West	Slow travel	
14:07:00 PDT 21:07-GMT	Blow 219° / 2,094 m Direction: West	Slow travel	ND / ND

12 Good - 3 Total 1 — 0 Calves at sighting

16:04:00 PDT 23:04-GMT	Body 165° / 715 m Direction: West	Slow travel	
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Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

16:06:00 PDT	Blow		
23:06-GMT	190° / 607 m	Direction: West	Slow travel
16:10:00 PDT	Blow		Inside / ND
23:10-GMT	226° / 812 m	Direction: West	Slow travel

15 Good - 3 Total 2 — 1 Calf at sighting

16:37:00 PDT	Blow		
23:37-GMT	112° / 1,778 m	Direction: West	Slow travel
16:41:00 PDT	Blow		
23:41-GMT	116° / 1,369 m	Direction: West	Slow travel
16:46:00 PDT	Blow		
23:46-GMT	126° / 1,228 m	Direction: West	Slow travel
16:47:00 PDT	Blow		
23:47-GMT	129° / 1,228 m	Direction: West	Slow travel
16:51:00 PDT	Body		
23:51-GMT	150° / 715 m	Direction: West	Slow travel • Breach
16:55:00 PDT	Body		
23:55-GMT	191° / 551 m	Direction: West	Slow travel • Breach
<i>at least 10 breaches in succession by calf</i>			
16:57:00 PDT	Blow		
23:57-GMT	219° / 551 m	Direction: West	Slow travel
17:00:00 PDT	Blow		Inside / ND
0:00; 4/9/2007-GMT	242° / 715 m	Direction: West	Slow travel

Apr 10 Total 8 Calves 1
Day 72 of 105

Er Gray whale (northbound)

07 Poor - 3 Total 2 — 0 Calves at sighting *Disappeared*

10:17:00 PDT	Blow		ND / ND
17:17-GMT	156° / 675 m	Direction: West	Slow travel
<i>large + small bodies after blow - disappeared</i>			

Weather: more haze east + south

08 Poor - 3 Total 2 — 1 Calf at sighting

11:01:00 PDT	Blow		
18:01-GMT	105° / 2,094 m	Direction: West	Slow travel
11:07:00 PDT	Blow		
18:07-GMT	109° / 1,546 m	Direction: West	Slow travel
11:09:00 PDT	Blow		
18:09-GMT	110° / 1,546 m	Direction: West	Slow travel
11:14:00 PDT	Blow		
18:14-GMT	115° / 1,113 m	Direction: West	Slow travel
11:17:00 PDT	Blow		
18:17-GMT	119° / 761 m	Direction: West	Slow travel
11:20:00 PDT	Blow		
18:20-GMT	126° / 505 m	Direction: West	Slow travel
11:22:00 PDT	Blow		
18:22-GMT	144° / 505 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	11:23:00 PDT	Blow			
	18:23-GMT	160° / 336 m	Direction: West	Slow travel	
	11:26:00 PDT	Blow			
	18:26-GMT	215° / 318 m	Direction: West	Slow travel	
	11:27:00 PDT	Blow			
	18:27-GMT	223° / 390 m	Direction: West	Slow travel	
	11:36:00 PDT	Blow			Inside /
	18:36-GMT	280° / 505 m	Direction: West	Slow travel	Inside
09	Fair - 3	Total 1 — 0 Calves at sighting			
	11:40:00 PDT	Blow			
	18:40-GMT	162° / 812 m	Direction: West	Slow travel	
	11:49:00 PDT	Blow			Inside / ND
	18:49-GMT	174° / 578 m	Direction: West	Slow travel	
10	Fair - 3	Total 1 — 0 Calves at sighting			
	11:58:00 PDT	Blow			
	18:58-GMT	139° / 871 m	Direction: West	Slow travel	
	12:00:00 PDT	Blow			
	19:00-GMT	144° / 840 m	Direction: West	Slow travel	
	12:03:00 PDT	Blow			
	19:03-GMT	166° / 607 m	Direction: West	Slow travel	
	12:06:00 PDT	Blow			
	19:06-GMT	190° / 607 m	Direction: West	Slow travel	
	12:08:00 PDT	Blow			
	19:08-GMT	213° / 505 m	Direction: West	Slow travel	
	12:12:00 PDT	Blow			Inside / ND
	19:12-GMT	237° / 639 m	Direction: West	Slow travel	
15	Good - 0	Total 2 — 0 Calves at sighting			
	14:48:00 PDT	Blow			
	21:48-GMT	236° / 639 m	Direction: West	Slow travel	
	14:52:00 PDT	Blow			
	21:52-GMT	252° / 939 m	Direction: West	Slow travel	
	14:54:00 PDT	Blow			Inside /
	21:54-GMT	258° / 1,228 m	Direction: West	Slow travel	Outside

Condor reported this as cow/calf pair.

Apr 11 Total 2 Calves 1
Day 73 of 105

Er Gray whale (northbound)

01	Fair - 3	Total 2 — 1 Calf at sighting			
	9:03:00 PDT	Blow			
	16:03-GMT	118° / 1,778 m	Direction: West	Slow travel	
	9:06:00 PDT	Blow			
	16:06-GMT	123° / 1,546 m	Direction: West	Slow travel	
	9:09:00 PDT	Blow			
	16:09-GMT	128° / 1,228 m	Direction: West	Slow travel	
	9:12:00 PDT	Blow			
	16:12-GMT	135° / 812 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

9:15:00 PDT 16:15-GMT	Blow 146° / 639 m Direction: West	Slow travel	
9:16:00 PDT 16:16-GMT	Blow 155° / 639 m Direction: West	Slow travel	
9:17:00 PDT 16:17-GMT	Blow 166° / 551 m Direction: West	Slow travel	
9:21:00 PDT 16:21-GMT	Blow 196° / 551 m Direction: West	Slow travel	
9:24:00 PDT 16:24-GMT	Blow 223° / 578 m Direction: West	Slow travel	
9:35:00 PDT 16:35-GMT	Blow 260° / 1,113 m Direction: West	Slow travel	Inside / Outside

Apr 13 Total 2 Calves 1
Day 75 of 105

Er Gray whale (northbound)

08	Fair - 0	Total 2 — 1 Calf at sighting	
10:26:00 PDT 17:26-GMT	Blow 110° / 2,094 m Direction: West	<i>Images: none</i> Slow travel	
<i>2 blows in beginning of sighting - after that, no blows - just bodies close to surface</i>			
10:28:00 PDT 17:28-GMT	Blow 112° / 1,546 m Direction: West	Slow travel	
10:37:00 PDT 17:37-GMT	Body 128° / 1,019 m Direction: West	Slow travel	
10:40:00 PDT 17:40-GMT	Body 139° / 871 m Direction: West	Slow travel	
10:47:00 PDT 17:47-GMT	Body / m Direction: West	Slow travel	
10:48:00 PDT 17:48-GMT	Body 212° / 551 m Direction: West	Slow travel	
10:56:00 PDT 17:56-GMT	Body 271° / 871 m Direction: West	Slow travel	
10:59:00 PDT 17:59-GMT	Body 278° / 1,019 m Direction: West	Slow travel	Inside / Through

Apr 14 Total 3 Calves 0
Day 76 of 105

Er Gray whale (northbound)

03	Fair - 1	Total 2 — 0 Calves at sighting	
9:43:00 PDT 16:43-GMT	Blow 107° / 3,288 m Direction: West	<i>Images: none</i> Slow travel • Fluke	
<i>Thought it could be a cow/calf pair, but apparently it was a juvenile, not a calf.</i>			
9:48:00 PDT 16:48-GMT	Blow 108° / 2,094 m Direction: West	Slow travel	
9:51:00 PDT 16:51-GMT	Blow 114° / 1,778 m Direction: West	Slow travel	
9:56:00 PDT 16:56-GMT	Body 124° / 1,369 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

	9:59:00 PDT 16:59-GMT	Body 126° / 939 m	Direction: West	Slow travel • Fluke	
	10:02:00 PDT 17:02-GMT	Body 161° / 871 m	Direction: West	Slow travel	
	10:04:00 PDT 17:04-GMT	Blow 183° / 639 m	Direction: West	Slow travel • Fluke	ND / ND
09	Fair - 1	Total 1 — 0 Calves at sighting		<i>Disappeared</i>	
	12:33:00 PDT 19:33-GMT	Blow 205° / 466 m	Direction: West	Slow travel • Fluke	ND / ND
Apr 16	Total 1	Calves 0	Er Gray whale (northbound)		
Day 78 of 105					
06	Fair - 2	Total 1 — 0 Calves at sighting			
	12:01:00 PDT 19:01-GMT	Blow 165° / 812 m	Direction: West	Slow travel	
	12:15:00 PDT 19:15-GMT	Blow 254° / 1,369 m	Direction: West	Slow travel	Inside / ND
Apr 17	Total 5	Calves 2	Er Gray whale (northbound)		
Day 79 of 105					
03	Fair - 0	Total 2 — 1 Calf at sighting			
	12:32:00 PDT 19:32-GMT	Blow <i>Images: none</i> 106° / 2,872 m	Direction: West	Slow travel	
	12:37:00 PDT 19:37-GMT	Blow 111° / 2,094 m	Direction: West	Slow travel	
	12:52:00 PDT 19:52-GMT	Body 119° / 840 m	Direction: West	Slow travel	
	12:56:00 PDT 19:56-GMT	Body 154° / 551 m	Direction: West	Slow travel	
	12:58:00 PDT 19:58-GMT	Body 170° / 551 m	Direction: West	Slow travel	
	13:00:00 PDT 20:00-GMT	Body 204° / 449 m	Direction: West	Slow travel	
	13:01:00 PDT 20:01-GMT	Blow 218° / 449 m	Direction: West	Slow travel	
	13:05:00 PDT 20:05-GMT	Body 226° / 449 m	Direction: West	Slow travel • Rolling	
	13:07:00 PDT 20:07-GMT	Body 234° / 505 m	Direction: West	Slow travel • Milling	
	13:09:00 PDT 20:09-GMT	Blow 237° / 449 m	Direction: West	Slow travel	
	13:10:00 PDT 20:10-GMT	Blow 250° / 449 m	Direction: West	Slow travel	
	13:11:00 PDT 20:11-GMT	Blow 252° / 449 m	Direction: West	Slow travel	
	13:12:00 PDT 20:12-GMT	Blow 245° / 449 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	13:13:00 PDT	Blow			
	20:13-GMT	249° / 551 m	Direction: West	Slow travel	
	13:17:00 PDT	Body			
	20:17-GMT	280° / 607 m	Direction: West	Slow travel	
	13:17:00 PDT	Blow			
	20:17-GMT	285° / 551 m	Direction: West	Slow travel	
	13:21:00 PDT	Blow			Inside /
	20:21-GMT	293° / 1,228 m	Direction: West	Slow travel	Inside
04	Fair - 0	Total 1 — 0 Calves at sighting			
	13:01:00 PDT	Blow			
	20:01-GMT	260° / 1,369 m	Direction: West	Slow travel	
	13:02:00 PDT	Blow			Inside /
	20:02-GMT	264° / 1,369 m	Direction: West	Slow travel	Outside
	<i>Condor directed us to this whale - we had been tracking sighting #3</i>				
07	Poor - 3	Total 2 — 1 Calf at sighting			
	15:29:00 PDT	Blow	<i>Images: none</i>		
	22:29-GMT	109° / 4,712 m	Direction: West	Slow travel	
	15:35:00 PDT	Blow			
	22:35-GMT	108° / 1,778 m	Direction: West	Slow travel	
	15:46:00 PDT	Blow			
	22:46-GMT	131° / 1,113 m	Direction: West	Slow travel	
	15:51:00 PDT	Blow			
	22:51-GMT	162° / 607 m	Direction: West	Slow travel	
	15:54:00 PDT	Body			
	22:54-GMT	179° / 551 m	Direction: West	Slow travel	
	15:58:00 PDT	Blow			
	22:58-GMT	193° / 578 m	Direction: West	Slow travel	
	16:01:00 PDT	Blow			
	23:01-GMT	212° / 466 m	Direction: West	Slow travel	
	16:07:00 PDT	Blow			
	23:07-GMT	240° / 639 m	Direction: West	Slow travel	
	16:16:00 PDT	Blow			Inside /
	23:16-GMT	278° / 871 m	Direction: West	Slow travel	Inside

Apr 20 Total 6 Calves 1
Day 82 of 105

Er Gray whale (northbound)

01	Good - 2	Total 1 — 0 Calves at sighting			
	9:57:00 PDT	Blow			
	16:57-GMT	100° / 10000 m	Direction: West	Slow travel	
	<i>Actually saw blows initially, twenty minutes earlier - extraordinary conditions at that bearing: Dark, but backlit - blows visible at astonishing distance. Called Condor at 10:00 and Mat could not believe it. They found the whale a few minutes after rounding Santa Barbara Point.</i>				
	10:13:00 PDT	Blow			
	17:13-GMT	102° / 4,712 m	Direction: West	Slow travel	
	10:48:00 PDT	Blow			
	17:48-GMT	117° / 3,288 m	Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10:55:00 PDT 17:55-GMT	Blow 121° / 2,553 m Direction: West	Slow travel	
10:59:00 PDT 17:59-GMT	Blow 125° / 2,553 m Direction: West	Slow travel	
<i>Weather: Some glare east and a bit less contrast</i>			
11:07:00 PDT 18:07-GMT	Blow 136° / 2,094 m Direction: West	Slow travel	
11:15:00 PDT 18:15-GMT	Blow 162° / 1,228 m Direction: West	Slow travel	
11:21:00 PDT 18:21-GMT	Blow 195° / 1,113 m Direction: West	Slow travel	
11:22:00 PDT 18:22-GMT	Body 204° / 1,113 m Direction: West	Slow travel	• Fluke
11:30:00 PDT 18:30-GMT	Blow 244° / 1,369 m Direction: West	Slow travel	Inside / Outside
<i>@ 11:23 Helicopter - Blue + white ("vessel" sighting not entered in Log) - flew over whale at less than 100 feet</i>			

04 Good - 1 Total 2 — 1 Calf at sighting

11:45:00 PDT 18:45-GMT	Body <i>Images: none</i> 154° / 551 m Direction: West	Slow travel	
<i>Snuck up - no blows until end - we had good looks - meandering in front of Point</i>			
11:47:00 PDT 18:47-GMT	Body 187° / 466 m Direction: West	Slow travel	
11:50:00 PDT 18:50-GMT	Body 204° / 433 m Direction: East	Slow travel	• Milling
11:51:00 PDT 18:51-GMT	Body 209° / m Direction: West	Slow travel	
11:54:00 PDT 18:54-GMT	Body 248° / 607 m Direction: West	Slow travel	
11:58:00 PDT 18:58-GMT	Body 259° / 871 m Direction: West	Slow travel	
12:01:00 PDT 19:01-GMT	Blow 265° / 1,369 m Direction: West	Slow travel	Inside / Outside

08 Fair - 4 Total 2 — 0 Calves at sighting

13:48:00 PDT 20:48-GMT	Blow 118° / 1,228 m Direction: West	Slow travel	
13:56:00 PDT 20:56-GMT	Blow 146° / 607 m Direction: West	Slow travel	
13:58:00 PDT 20:58-GMT	ni 165° / 527 m Direction: West	Slow travel	
14:01:00 PDT 21:01-GMT	Blow 205° / 466 m Direction: West	Slow travel	
14:05:00 PDT 21:05-GMT	Blow 247° / 578 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

	14:10:00 PDT	Blow			Inside / ND
	21:10-GMT	271° / 812 m	Direction: West	Slow travel	
09	Fair - 4	Total 1 — 0 Calves at sighting			
	13:50:00 PDT	Body			
	20:50-GMT	169° / 433 m	Direction: West	Slow travel	
	13:54:00 PDT	Body			Inside /
	20:54-GMT	212° / 551 m	Direction: West	Slow travel	Outside
Apr 21	Total 5	Calves 1	Er Gray whale (northbound)		
Day 83 of 105					
08	Fair - 3	Total 1 — 0 Calves at sighting			
	12:21:00 PDT	Blow			
	19:21-GMT	120° / 2,553 m	Direction: West	Slow travel • Fluke	
	12:32:00 PDT	Blow			
	19:32-GMT	143° / 1,778 m	Direction: West	Slow travel	
	12:39:00 PDT	Blow			
	19:39-GMT	175° / 1,113 m	Direction: West	Slow travel • Fluke	
	12:45:00 PDT	Blow			
	19:45-GMT	222° / 1,228 m	Direction: West	Slow travel	
	12:52:00 PDT	Blow			Inside /
	19:52-GMT	250° / 1,369 m	Direction: West	Slow travel • Fluke	Outside
11	Good - 3	Total 2 — 1 Calf at sighting			
	13:13:00 PDT	Blow	<i>Images: 6225-31, 34</i>		
	20:13-GMT	104° / 2,094 m	Direction: West	Slow travel	
	13:16:00 PDT	Blow			
	20:16-GMT	106° / 2,094 m	Direction: West	Slow travel	
	13:20:00 PDT	Blow			
	20:20-GMT	108° / 2,094 m	Direction: West	Slow travel	
	13:23:00 PDT	Blow			
	20:23-GMT	109° / 1,778 m	Direction: West	Slow travel	
	13:30:00 PDT	Blow			
	20:30-GMT	114° / 1,294 m	Direction: West	Slow travel	
	13:35:00 PDT	Blow			
	20:35-GMT	131° / 639 m	Direction: West	Slow travel	
	13:37:00 PDT	Blow			
	20:37-GMT	131° / 527 m	Direction: West	Slow travel	
	13:40:00 PDT	Blow			
	20:40-GMT	150° / 367 m	Direction: West	Slow travel	
	13:43:00 PDT	Blow			
	20:43-GMT	189° / 295 m	Direction: West	Slow travel	
	13:45:00 PDT	Blow			
	20:45-GMT	223° / 404 m	Direction: West	Slow travel • Bubbles seen	
	13:48:00 PDT	Blow			
	20:48-GMT	244° / 433 m	Direction: West	Slow travel	
	13:53:00 PDT	Blow			Inside /
	20:53-GMT	281° / 761 m	Direction: West	Slow travel	Inside

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

13	Fair - 0	Total 2 — 0 Calves at sighting	
15:49:00 PDT 22:49-GMT	Body	165° / 551 m Direction: West	Slow travel
15:52:00 PDT 22:52-GMT	Body	213° / 505 m Direction: West	Slow travel
15:56:00 PDT 22:56-GMT	Body	247° / 761 m Direction: West	Slow travel
			Inside / ND
<i>Did not get good looks - shy</i>			
<i>Weather: Dark - less contrast</i>			

Apr 22 Total 6 Calves 2
Day 84 of 105

Er Gray whale (northbound)

01	Fair - 0	Total 2 — 0 Calves at sighting	
9:32:00 PDT 16:32-GMT	Blow	184° / 449 m Direction: West	Slow travel
9:35:00 PDT 16:35-GMT	Body	224° / 527 m Direction: West	Slow travel
9:37:00 PDT 16:37-GMT	Body	230° / 607 m Direction: West	Slow travel
			Inside / ND
<i>Did not get good look</i>			
03	Poor - 0	Total 2 — 1 Calf at sighting	
9:47:00 PDT 16:47-GMT	Body	134° / 715 m Direction: West	not indicated
<i>Images: none</i>			
<i>Weather: Foggy rain</i>			
<i>Bad weather, but good looks at whales</i>			
9:51:00 PDT 16:51-GMT	Blow	171° / 505 m Direction: West	Slow travel
9:54:00 PDT 16:54-GMT	Blow	197° / 466 m Direction: West	Slow travel
9:57:00 PDT 16:57-GMT	Body	233° / 466 m Direction: West	Slow travel
9:58:00 PDT 16:58-GMT	Body	247° / 505 m Direction: West	Slow travel
			Inside / ND
<i>Bad weather, but good looks at whales</i>			
04	Poor - 0	Total 2 — 1 Calf at sighting	
9:58:00 PDT 16:58-GMT	Body	162° / 378 m Direction: West	Slow travel
<i>Images: none</i>			
<i>No blows - good looks</i>			
9:59:00 PDT 16:59-GMT	Body	171° / 404 m Direction: West	Slow travel
10:01:00 PDT 17:01-GMT	Body	184° / 356 m Direction: West	Slow travel
10:02:00 PDT 17:02-GMT	Body	206° / 378 m Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10:08:00 PDT	Body			Inside / ND
17:08-GMT	241° / 505 m	Direction: West	Slow travel	

Apr 23 Total 8 Calves 4 Er Gray whale (northbound)
Day 85 of 105

02	Good - 2	Total 2 — 1 Calf at sighting		
9:00:00 PDT	Blow	<i>Images: none</i>		
16:00-GMT	112° / 812 m	Direction: West	Slow travel	
9:03:00 PDT	Blow			
16:03-GMT	130° / 505 m	Direction: West	Slow travel	
9:06:00 PDT	Blow			
16:06-GMT	163° / 390 m	Direction: West	Slow travel	
9:09:00 PDT	Blow			
16:09-GMT	195° / 356 m	Direction: West	Slow travel	
9:13:00 PDT	Body			
16:13-GMT	237° / 639 m	Direction: West	Slow travel	
9:19:00 PDT	Blow			Inside / Inside
16:19-GMT	284° / 675 m	Direction: West	Slow travel	

07	Good - 3	Total 2 — 1 Calf at sighting		
9:55:00 PDT	Blow	<i>Images: 6248-62</i>		
16:55-GMT	113° / 1,546 m	Direction: West	Slow travel • Fluke	
<i>Spent a long time at Campus Point.</i>				
<i>Cow has mangled fluke, perhaps entanglement or orca attack (old incident). Sent images to Wayne Perryman at Piedras Blancas. His reply came April 25: Michael-Today at 2:30 pm a cow/calf pair passed the site and the female had a diagonal scar across her rostrum almost to the blow hole and her flukes were badly scarred. She had a gap on the trailing edge of the left fluke. Sounds like your girl.</i>				
<i>wayne</i>				
9:57:00 PDT	Blow			
16:57-GMT	118° / 1,369 m	Direction: West	Slow travel	
9:59:00 PDT	Blow			
16:59-GMT	123° / 1,228 m	Direction: West	Slow travel	
10:03:00 PDT	Blow			
17:03-GMT	146° / 675 m	Direction: West	Slow travel	
10:07:00 PDT	Blow			
17:07-GMT	181° / 578 m	Direction: West	Slow travel	
10:10:00 PDT	Blow			
17:10-GMT	225° / 578 m	Direction: West	Slow travel	
10:12:00 PDT	Blow			
17:12-GMT	233° / 578 m	Direction: West	Slow travel • Fluke	
10:15:00 PDT	Blow			
17:15-GMT	247° / 715 m	Direction: West	Slow travel • Fluke	
10:17:00 PDT	Blow			Inside / Outside
17:17-GMT	256° / 871 m	Direction: West	Slow travel • Fluke	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

14	Fair - 4	Total 2 — 1 Calf at sighting	
14:28:00 PDT	ni	<i>Images: none</i>	
21:28-GMT	132° / 840 m	Direction: West	not indicated
14:33:00 PDT	Blow		
21:33-GMT	156° / 607 m	Direction: West	Slow travel
14:37:00 PDT	Blow		
21:37-GMT	208° / 607 m	Direction: West	Slow travel
14:38:00 PDT	Blow		
21:38-GMT	217° / 551 m	Direction: West	Slow travel
14:41:00 PDT	Blow		
21:41-GMT	248° / 578 m	Direction: West	Slow travel
14:43:00 PDT	Blow		Inside / ND
21:43-GMT	261° / 675 m	Direction: West	Slow travel
15	Fair - 3	Total 2 — 1 Calf at sighting	
14:44:00 PDT	Blow	<i>Images: none</i>	
21:44-GMT	156° / 310 m	Direction: West	Slow travel
14:48:00 PDT	Blow		
21:48-GMT	189° / 288 m	Direction: West	Slow travel
14:49:00 PDT	Blow		
21:49-GMT	204° / 275 m	Direction: West	Slow travel
14:54:00 PDT	Blow		
21:54-GMT	248° / 433 m	Direction: West	Slow travel
14:55:00 PDT	Blow		Inside / ND
21:55-GMT	256° / 433 m	Direction: West	Slow travel

Apr 24 Total 5 Calves 2
Day 86 of 105

Er Gray whale (northbound)

03	Fair - 1	Total 2 — 1 Calf at sighting	
9:52:00 PDT	Blow	<i>Images: none</i>	
16:52-GMT	109° / 1,778 m	Direction: West	Slow travel
			<i>Large crowd of birders surrounded Counters.</i>
9:54:00 PDT	Blow		
16:54-GMT	109° / 1,369 m	Direction: West	Slow travel
9:56:00 PDT	Blow	<i>Images: 6316-8</i>	
16:56-GMT	114° / 1,369 m	Direction: West	Slow travel
			<i>small boat approached from rear - purposeful - within 100 meters</i>
			<i>Images made after boat left whales.</i>
9:58:00 PDT	Blow		
16:58-GMT	117° / 1,228 m	Direction: West	Slow travel
10:01:00 PDT	Blow		
17:01-GMT	118° / 840 m	Direction: West	Slow travel
10:05:00 PDT	Blow		
17:05-GMT	129° / 527 m	Direction: West	Slow travel
			<i>Weather: Less haze, better contrast</i>

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

10:09:00 PDT	Blow			
17:09-GMT	166° / 356 m	Direction: West	Slow travel	
10:11:00 PDT	Blow			
17:11-GMT	206° / 378 m	Direction: West	Slow travel	
10:13:00 PDT	Body			
17:13-GMT	215° / 449 m	Direction: West	Slow travel	
10:16:00 PDT	Body			Inside / ND
17:16-GMT	248° / 505 m	Direction: West	Slow travel	
04	Excellent - 1	Total 2 — 1 Calf at sighting		
12:05:00 PDT	Body	<i>Images: none</i>		
19:05-GMT	187° / 466 m	Direction: West	Slow travel	
<i>Saw disturbance in water straight out, then calf head and small blow, followed by cow surfacing and big blow.</i>				
<i>Moved directly - not very "slow travel"</i>				
<i>Weather: lots of zero Beaufort</i>				
12:10:00 PDT	Blow			
19:10-GMT	241° / 715 m	Direction: West	Slow travel	
12:16:00 PDT	Blow			Inside /
19:16-GMT	258° / 1,369 m	Direction: West	Slow travel	Outside
05	Good - 1	Total 1 — 0 Calves at sighting		
12:41:00 PDT	Blow			
19:41-GMT	142° / 812 m	Direction: West	Slow travel	
<i>Weather: more haze again</i>				
12:44:00 PDT	Blow			
19:44-GMT	173° / 607 m	Direction: West	Slow travel	
12:49:00 PDT	Body			Inside / ND
19:49-GMT	223° / 578 m	Direction: West	Slow travel	

Apr 25 Total 5 Calves 2
Day 87 of 105

Er Gray whale (northbound)

09	Fair - 1	Total 2 — 1 Calf at sighting		
12:01:00 PDT	Blow	<i>Images: none</i>		
19:01-GMT	163° / 551 m	Direction: West	Slow travel	
<i>Oil barge in place - Pair went toward buoys, then traveled inside.</i>				
12:05:00 PDT	Blow			
19:05-GMT	197° / 418 m	Direction: West	Slow travel	
12:06:00 PDT	Blow			
19:06-GMT	204° / 378 m	Direction: West	Slow travel	
<i>with sea lion</i>				
12:08:00 PDT	Body			
19:08-GMT	217° / 418 m	Direction: West	Slow travel	
12:11:00 PDT	Blow			
19:11-GMT	246° / 505 m	Direction: West	Slow travel	
12:13:00 PDT	ni			
19:13-GMT	256° / 485 m	Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≅ Beaufort 4

12:14:00 PDT 19:14-GMT	ni 258° / 485 m Direction: West	Slow travel	
12:16:00 PDT 19:16-GMT	Blow 269° / 607 m Direction: West	Slow travel	
12:17:00 PDT 19:17-GMT	Blow 273° / 761 m Direction: West	Slow travel	
12:19:00 PDT 19:19-GMT	Blow 282° / 871 m Direction: West	Slow travel	
12:24:00 PDT 19:24-GMT	Blow 291° / 1,228 m Direction: West	Slow travel	Inside / Inside

10 Fair - 1 Total 2 — 1 Calf at sighting

12:37:00 PDT 19:37-GMT	Blow <i>Images: none</i> 136° / 1,369 m Direction: West	Slow travel	
<i>After Point, Condor following whales - oil barge between buoys, and whales went outside</i>			
12:42:00 PDT 19:42-GMT	Blow 153° / 812 m Direction: West	Slow travel	
12:49:00 PDT 19:49-GMT	Blow 195° / 607 m Direction: West	Slow travel	
12:50:00 PDT 19:50-GMT	Blow 204° / 607 m Direction: West	Slow travel	
12:58:00 PDT 19:58-GMT	Blow 251° / 1,369 m Direction: West	Slow travel	Inside / Outside

11 Fair - 1 Total 1 — 0 Calves at sighting

16:13:00 PDT 23:13-GMT	Blow 131° / 871 m Direction: West	Slow travel	
16:17:00 PDT 23:17-GMT	Blow 158° / 505 m Direction: West	Slow travel	
16:18:00 PDT 23:18-GMT	Blow 174° / 449 m Direction: West	Slow travel	
16:19:00 PDT 23:19-GMT	Blow 187° / 404 m Direction: West	Slow travel	Inside / ND
<i>small juvenile</i>			

Apr 26 Total 7 Calves 3
Day 88 of 105

Er Gray whale (northbound)

02 Poor - 4 Total 1 — 0 Calves at sighting

10:15:00 PDT 17:15-GMT	Blow 136° / 551 m Direction: West	Slow travel	
10:17:00 PDT 17:17-GMT	Blow 152° / 404 m Direction: West	Slow travel	
10:20:00 PDT 17:20-GMT	Blow 205° / 356 m Direction: West	Slow travel	
10:24:00 PDT 17:24-GMT	Blow 250° / 578 m Direction: West	Slow travel	Inside / ND

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

03	Fair - 4	Total 2 — 1 Calf at sighting
12:58:00 PDT 19:58-GMT	Blow 103° / 2,553 m	<i>Images: 6352-7</i> Direction: West Slow travel
<i>Supervisor 88 moved from Point to further observe the pair at Sands Beach (no position points recorded there)</i>		
13:08:00 PDT 20:08-GMT	Blow 108° / 1,778 m	Direction: West Slow travel
13:15:00 PDT 20:15-GMT	Body 119° / 1,019 m	Direction: West Slow travel
13:19:00 PDT 20:19-GMT	Blow 132° / 812 m	Direction: West Slow travel • Milling
13:22:00 PDT 20:22-GMT	Blow 137° / 505 m	Direction: West Slow travel
13:27:00 PDT 20:27-GMT	Blow 148° / 505 m	Direction: West Slow travel
13:29:00 PDT 20:29-GMT	Blow 152° / 449 m	Direction: West Slow travel • Milling
13:31:00 PDT 20:31-GMT	Blow 162° / 356 m	Direction: West Slow travel
13:32:00 PDT 20:32-GMT	Blow 173° / 356 m	Direction: West Slow travel
13:34:00 PDT 20:34-GMT	Blow 204° / 346 m	Direction: West Slow travel
13:35:00 PDT 20:35-GMT	Blow 214° / 346 m	Direction: East Slow travel • Milling
13:40:00 PDT 20:40-GMT	Blow 215° / 404 m	Direction: West Slow travel • Milling
13:43:00 PDT 20:43-GMT	Body 229° / 390 m	Direction: West Slow travel • Milling
13:47:00 PDT 20:47-GMT	ni 229° / 390 m	Direction: West Slow travel • Milling
13:52:00 PDT 20:52-GMT	Blow 259° / 607 m	Direction: West Slow travel
13:56:00 PDT 20:56-GMT	Blow 289° / 812 m	Direction: Slow travel
		Inside / Inside
<i>Weather: strong wind and chop</i>		
07	Fair - 3	Total 2 — 1 Calf at sighting
15:01:00 PDT 22:01-GMT	Blow 112° / 1,546 m	<i>Images: 6357-85</i> Direction: West Slow travel
<i>Lots of spyhopping by mother and the calf</i>		
15:03:00 PDT 22:03-GMT	Blow 115° / 1,294 m	Direction: West Slow travel
15:05:00 PDT 22:05-GMT	Blow 117° / 1,228 m	Direction: West Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

15:12:00 PDT 22:12-GMT	Blow 132° / 675 m Direction: West	Slow travel	
15:15:00 PDT 22:15-GMT	Blow 144° / 449 m Direction: West	Slow travel	
15:16:00 PDT 22:16-GMT	Blow 147° / 433 m Direction: West	Slow travel	
15:22:00 PDT 22:22-GMT	Body 193° / 378 m Direction: West	Slow travel	
15:25:00 PDT 22:25-GMT	Body 218° / 449 m Direction: West	Slow travel	
15:27:00 PDT 22:27-GMT	Body 244° / 449 m Direction: West	Slow travel	
15:30:00 PDT 22:30-GMT	Body 254° / 449 m Direction: West	Slow travel • Milling	
15:33:00 PDT 22:33-GMT	Blow 270° / 578 m Direction: West	Slow travel	
15:37:00 PDT 22:37-GMT	Blow 284° / 578 m Direction: West	Slow travel	
15:39:00 PDT 22:39-GMT	Blow 297° / 715 m Direction: West	Slow travel	Inside / Inside
08	Fair - 3	Total 2 — 1 Calf at sighting	
15:32:00 PDT 22:32-GMT	Blow <i>Images: 6386-95</i> 114° / 1,369 m Direction: West	Slow travel	
15:37:00 PDT 22:37-GMT	Blow 122° / 871 m Direction: West	Slow travel	
15:42:00 PDT 22:42-GMT	Blow 141° / 527 m Direction: West	Slow travel	
15:48:00 PDT 22:48-GMT	Blow 220° / 449 m Direction: West	Slow travel	
15:52:00 PDT 22:52-GMT	Blow 259° / 551 m Direction: West	Slow travel	
15:54:00 PDT 22:54-GMT	Blow 277° / 551 m Direction: West	Slow travel	
<i>Weather: very low Beaufort 3 - good contrast</i>			
15:58:00 PDT 22:58-GMT	Blow 283° / 527 m Direction: West	Slow travel • Rolling	
15:59:00 PDT 22:59-GMT	Blow 284° / 551 m Direction: Stationary	Slow travel • Milling	
16:02:00 PDT 23:02-GMT	Blow 289° / 715 m Direction: West	Slow travel • Milling	
16:03:00 PDT 23:03-GMT	Blow 294° / 715 m Direction: West	Slow travel • Milling	Inside / Inside

Apr 27 Total 6 Calves 3
Day 89 of 105

Er Gray whale (northbound)

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

03	Fair - 0	Total 2 — 1 Calf at sighting	
9:18:00 PDT	Blow	<i>Images: none</i>	
16:18-GMT	122° / 939 m	Direction: West	Slow travel
	<i>moved right along</i>		
9:21:00 PDT	Blow		
16:21-GMT	140° / 551 m	Direction: West	Slow travel
9:22:00 PDT	Body		
16:22-GMT	151° / 505 m	Direction: West	Slow travel
9:26:00 PDT	Blow		
16:26-GMT	200° / 418 m	Direction: West	Slow travel
9:27:00 PDT	Blow		Inside / ND
16:27-GMT	220° / 418 m	Direction: West	Slow travel
10	Fair - 3	Total 2 — 1 Calf at sighting	
16:04:00 PDT	Body	<i>Images: 6466-95</i>	
23:04-GMT	166° / 449 m	Direction: West	Slow travel
	<i>First sighted them just to the left of the Point - Hung out in and by the kelp in front of the Point for a good while.</i>		
16:07:00 PDT	Blow		
23:07-GMT	191° / 449 m	Direction: West	Slow travel
16:11:00 PDT	Body		
23:11-GMT	207° / 449 m	Direction: West	Slow travel
16:18:00 PDT	Blow		
23:18-GMT	207° / 449 m	Direction: West	Slow travel • Rolling • Fluke
16:25:00 PDT	Blow		
23:25-GMT	229° / 449 m	Direction: West	Slow travel
16:26:00 PDT	Blow		
23:26-GMT	235° / 551 m	Direction: West	Slow travel
16:31:00 PDT	Body		Inside / ND
23:31-GMT	271° / 871 m	Direction: West	Slow travel
11	Fair - 3	Total 2 — 1 Calf at sighting	
16:29:00 PDT	Blow	<i>Images: none</i>	
23:29-GMT	100° / 2,872 m	Direction: West	Slow travel
	<i>Very slow travel at first - under water for a long time (6 to 10 minutes)</i>		
16:40:00 PDT	Blow		
23:40-GMT	106° / 2,094 m	Direction: West	Slow travel
16:50:00 PDT	Blow		
23:50-GMT	113° / 1,546 m	Direction: West	Slow travel
16:57:00 PDT	Blow		
23:57-GMT	119° / 1,019 m	Direction: West	Slow travel
16:58:00 PDT	Blow		
23:58-GMT	122° / 939 m	Direction: West	Slow travel
17:01:00 PDT	Blow		
0:01; 4/28/2007-GMT	139° / 607 m	Direction: West	Slow travel
17:03:00 PDT	Blow		
0:03; 4/28/2007-GMT	149° / 466 m	Direction: West	Slow travel

Species Totals with Sighting and Tracking, On-Effort, ≤ Beaufort 4

17:04:00 PDT 0:04; 4/28/2007-GMT	Blow 154° / 505 m Direction: West	Slow travel	
17:07:00 PDT 0:07; 4/28/2007-GMT	Body 205° / 449 m Direction: West	Slow travel	
17:09:00 PDT 0:09; 4/28/2007-GMT	ni 224° / 418 m Direction: West	Slow travel	Inside / ND

Apr 30 Total 7 Calves 3
Day 92 of 105

Er Gray whale (northbound)

02 Fair - 1 Total 2 — 1 Calf at sighting

10:59:00 PDT 17:59-GMT	Body <i>Images: none</i> 153° / 639 m Direction: West	Slow travel • Bubbles seen	
11:03:00 PDT 18:03-GMT	Body 185° / 466 m Direction: West	Slow travel	
11:06:00 PDT 18:06-GMT	Body 228° / 449 m Direction: West	Slow travel	
11:07:00 PDT 18:07-GMT	Blow 244° / 578 m Direction: West	Slow travel	
11:10:00 PDT 18:10-GMT	Body 265° / 527 m Direction: West	Slow travel	
11:13:00 PDT 18:13-GMT	Blow 284° / 871 m Direction: West	Slow travel	Inside / Inside

04 Fair - 1 Total 3 — 1 Calf at sighting

11:37:00 PDT 18:37-GMT	Blow <i>Images: none</i> 120° / 715 m Direction: West	Slow travel	
<i>Possibly two cow/calf pairs - unsure, though - one pair plus one juvenile</i>			
11:40:00 PDT 18:40-GMT	Blow 147° / 551 m Direction: West	Slow travel	
11:42:00 PDT 18:42-GMT	Blow 158° / 466 m Direction: West	Slow travel	
11:46:00 PDT 18:46-GMT	Body 194° / 433 m Direction: West	Slow travel	
11:51:00 PDT 18:51-GMT	Body 224° / 449 m Direction: West	Slow travel • Rolling • Milling	
11:56:00 PDT 18:56-GMT	Body 244° / 449 m Direction: West	Slow travel	
12:01:00 PDT 19:01-GMT	Body 273° / 578 m Direction: West	Slow travel • Rolling	
12:07:00 PDT 19:07-GMT	Blow 298° / 1,019 m Direction: West	Slow travel	Inside / Inside

06 Fair - 2 Total 2 — 1 Calf at sighting

14:32:00 PDT 21:32-GMT	Body <i>Images: none</i> 155° / 551 m Direction: West	Slow travel	
14:38:00 PDT 21:38-GMT	Blow 246° / 466 m Direction: West	Slow travel	

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

14:39:00 PDT 21:39-GMT	Blow 259° / 527 m Direction: West	Slow travel	
14:40:00 PDT 21:40-GMT	ni 265° / 527 m Direction: West	Slow travel	
14:41:00 PDT 21:41-GMT	ni 269° / 551 m Direction: West	Slow travel	
14:44:00 PDT 21:44-GMT	Blow 286° / 715 m Direction: West	Slow travel	
14:49:00 PDT 21:49-GMT	Blow 294° / 1,778 m Direction: West	Slow travel	Inside / Inside

fog

May 01 Total 4 Calves 2
Day 93 of 105

Er Gray whale (northbound)

07 Fair - 4 Total 2 — 1 Calf at sighting

15:19:00 PDT 22:19-GMT	Blow <i>Images: 6511</i> 109° / 2,094 m Direction: West	Slow travel	
<i>quarter mile behind cow/calf pair (sighting #8)</i>			
15:29:00 PDT 22:29-GMT	Blow 110° / 1,778 m Direction: West	Slow travel	
15:37:00 PDT 22:37-GMT	Blow 118° / 1,546 m Direction: West	Slow travel	
15:42:00 PDT 22:42-GMT	Blow <i>Images: 6511</i> 120° / 1,019 m Direction: West	Slow travel	
15:58:00 PDT 22:58-GMT	Body 159° / 449 m Direction: West	Slow travel	
16:00:00 PDT 23:00-GMT	Body 173° / 378 m Direction: West	Slow travel	
16:08:00 PDT 23:08-GMT	Blow 236° / 433 m Direction: West	Slow travel	Inside / ND

08 Fair - 4 Total 2 — 1 Calf at sighting

15:23:00 PDT 22:23-GMT	Blow <i>Images: 6506-10</i> 112° / 1,778 m Direction: West	Slow travel	
15:33:00 PDT 22:33-GMT	Blow 120° / 1,019 m Direction: West	Slow travel	
15:34:00 PDT 22:34-GMT	Blow 122° / 871 m Direction: West	Slow travel	
15:38:00 PDT 22:38-GMT	Body 136° / 607 m Direction: West	Slow travel	
15:43:00 PDT 22:43-GMT	Blow <i>Images: 6506-10</i> 179° / 418 m Direction: West	Slow travel	
15:47:00 PDT 22:47-GMT	Blow 215° / 449 m Direction: West	Slow travel	Inside / Through

May 02 Total 3 Calves 1
Day 94 of 105

Er Gray whale (northbound)

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

07	Good - 2	Total 1 — 0 Calves at sighting	<i>Disappeared</i>
10:26:00 PDT 17:26-GMT	Body	124° / 715 m Direction: West	Slow travel
10:27:00 PDT 17:27-GMT	Blow	134° / 639 m Direction: West	Slow travel
<i>Surfaced head first along kelp - appeared to be a calf - then a small blow - disappeared</i>			
16	Good - 3	Total 2 — 1 Calf at sighting	
13:08:00 PDT 20:08-GMT	Blow <i>Images: 6520-42</i>	108° / 1,778 m Direction: West	Slow travel
13:15:00 PDT 20:15-GMT	Blow	117° / 1,019 m Direction: West	Slow travel
13:19:00 PDT 20:19-GMT	Body	137° / 607 m Direction: West	Slow travel
13:23:00 PDT 20:23-GMT	ni	134° / 551 m Direction: East	Slow travel • Milling
13:26:00 PDT 20:26-GMT	ni	174° / 404 m Direction: West	Slow travel
<i>switched directions in front of Point, then headed west again</i>			
13:33:00 PDT 20:33-GMT	Blow	209° / 404 m Direction: West	Slow travel
13:36:00 PDT 20:36-GMT	Blow	234° / 449 m Direction: West	Slow travel
13:41:00 PDT 20:41-GMT	Blow	274° / 551 m Direction: West	Slow travel
13:45:00 PDT 20:45-GMT	Blow <i>Images: 6520-42</i>	291° / 715 m Direction: West	Slow travel
			Inside / Inside

May 06 Total 4 Calves 2
Day 98 of 105

Er Gray whale (northbound)

04	Fair - 1	Total 2 — 1 Calf at sighting	<i>Disappeared</i>
11:14:00 PDT 18:14-GMT	Blow <i>Images: none</i>	101° / 2,094 m Direction: West	Slow travel
11:18:00 PDT 18:18-GMT	Body	103° / 1,778 m Direction: West	Slow travel
11:21:00 PDT 18:21-GMT	Blow	105° / 1,778 m Direction: West	Slow travel
11:22:00 PDT 18:22-GMT	Blow	106° / 1,546 m Direction: West	Slow travel
11:32:00 PDT 18:32-GMT	Blow	116° / 1,019 m Direction: West	Slow travel
11:34:00 PDT 18:34-GMT	ni	121° / 715 m Direction: West	Slow travel
			ND / ND

Disappeared as whales approached floating inflatable along kelp. Zero Beaufort in good light. Had been blowing + then calf spyhopped in kelp. Disappeared - 5 observers, including 2 supervisors, with zero to one Beaufort ????

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

19	Fair - 3	Total 2 — 1 Calf at sighting		
		16:46:00 PDT	Blow	<i>Images: none</i>
		23:46-GMT	168° / 607 m	Direction: West Slow travel
		<i>observed in scope</i>		
16:49:00 PDT	23:49-GMT	Blow		
		204° / 505 m	Direction: West Slow travel	
16:52:00 PDT	23:52-GMT	Blow		
		236° / 761 m	Direction: West Slow travel	
16:57:00 PDT	23:57-GMT	Blow		
		255° / 1,019 m	Direction: West Slow travel	
			Inside / Outside	

May 07 Total 4 Calves 2
Day 99 of 105

Er Gray whale (northbound)

10	Good - 3	Total 2 — 1 Calf at sighting		
		14:59:00 PDT	Body	<i>Images: 6758-65, 6767-9</i>
		21:59-GMT	120° / 449 m	Direction: West Slow travel
		<i>in kelp</i>		
		<i>Came up in kelp, but did not break through at first - weird - then two whales!</i>		
		15:02:00 PDT	Body	
		22:02-GMT	134° / 356 m	Direction: West Slow travel
		15:05:00 PDT	Body	
		22:05-GMT	134° / 356 m	Direction: West not indicated
		15:05:00 PDT	Blow	
22:05-GMT	164° / 356 m	Direction: West not indicated		
15:06:00 PDT	Blow			
22:06-GMT	178° / 327 m	Direction: West not indicated		
15:07:00 PDT	Body			
22:07-GMT	183° / 288 m	Direction: West not indicated		
15:10:00 PDT	Blow			
22:10-GMT	135° / 327 m	Direction: West not indicated		
15:12:00 PDT	Blow			
22:12-GMT	247° / 433 m	Direction: West not indicated		
			Inside / ND	

14	Good - 3	Total 2 — 1 Calf at sighting		
		16:57:00 PDT	Body	<i>Images: none</i>
		23:57-GMT	171° / 418 m	Direction: West Slow travel
<i>had great looks right in front - moved right along</i>				
17:00:00 PDT	Body			
0:00; 5/8/2007-GMT	203° / 466 m	Direction: West Slow travel		
17:05:00 PDT	Blow			
0:05; 5/8/2007-GMT	247° / 485 m	Direction: West Slow travel	Inside / ND	

May 11 Total 4 Calves 2
Day 103 of 105

Er Gray whale (northbound)

09	Fair - 4	Total 2 — 1 Calf at sighting		
		14:34:00 PDT	Body	<i>Images: 6954-63</i>
21:34-GMT	106° / 1,019 m	Direction: West Slow travel		
<i>both in kelp - appeared as bulges in the kelp - swam a long distance to Point through kelp</i>				

Species Totals with Sighting and Tracking, On-Effort, ≡ Beaufort 4

14:38:00 PDT	Body		
21:38-GMT	110° / 715 m	Direction: West	Slow travel

14:40:00 PDT	Blow		
21:40-GMT	110° / 551 m	Direction: West	Slow travel

14:43:00 PDT	Body		
21:43-GMT	119° / 449 m	Direction: West	Slow travel

14:47:00 PDT	Blow		
21:47-GMT	157° / 336 m	Direction: West	Slow travel

out of kelp

12 Fair - 4 Total 2 — 1 Calf at sighting

16:38:00 PDT	Body	<i>Images: none</i>	
23:38-GMT	131° / 378 m	Direction: West	Slow travel

Calf appeared in kelp with mom outside kelp.

16:41:00 PDT	Body		
23:41-GMT	177° / 466 m	Direction: West	Slow travel

16:47:00 PDT	ni		
23:47-GMT	225° / 675 m	Direction: West	Slow travel

16:52:00 PDT	Blow		Inside /
23:52-GMT	242° / 1,113 m	Direction: West	Slow travel Outside