



2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Total: 521 Calves: 29 Number of Sightings: 283

Daily Totals	Sighting Number	Quality - Beau	Time	Blow/Body	Holly/Buoys
Feb 11 Day 4 of 105	Total 1 Calves 0			Er Gray whale (northbound)	
	07	Fair - 2		<i>Er</i> Total 1 — 0 Calves at sighting	
			10:52:00 PST	Blow	
			18:52-GMT	Position: 144° / 471 m Dir: West; Behavior: Slow travel	
			10:55:00 PST	Blow	
			18:55-GMT	Position: 200° / 356 m Dir: West; Behavior: Slow travel	
			10:58:00 PST	Blow	
			18:58-GMT	Position: 236° / 426 m Dir: West; Behavior: Slow travel	
			11:02:00 PST	Body	
			19:02-GMT	Position: 261° / 913 m Dir: West; Behavior: Slow travel	
			11:05:00 PST	Blow Images: MHS 2183-4	Inside /
			19:05-GMT	Position: 270° / 1331 m Dir: West; Behavior: Slow travel	Through
				one breath per surfacing sequence	
Feb 12 Day 5 of 105	Total 1 Calves 0			Er Gray whale (northbound)	
	11	Good - 2		<i>Er</i> Total 1 — 0 Calves at sighting	
			11:54:00 PST	Body	
			19:54-GMT	Position: 152° / 412 m Dir: West; Behavior: Slow travel	
				very small whale	
			12:05:00 PST	Body	
			20:05-GMT	Position: 113° / 412 m Dir: Stationary; Behavior: Milling	
				hanging out at edge of kelp	
			12:10:00 PST	Body Images: MHS2198-2204; 2209-18	
			20:10-GMT	Position: 116° / 412 m Dir: Stationary; Behavior: Milling	

KEY: Quality is overall observation quality. The number is Beaufort scale. Blow or Body is what we saw first to know it was an animal. Position of animal is represented by true bearing and distance in meters from our observation platform on Counter Point, which faces south. Holly is the oil platform 2 miles offshore, to the southwest. For northbound Gray whales, we note if the whales passed inside (between Holly and Counter Point) or outside, (on the ocean side of the platform).

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

part of 2010 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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2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:20:00 PST	Body	
		20:20-GMT	Position: 165° / 280 m Dir: West; Behavior: Slow travel	
		12:32:00 PST	Body	Inside / ND
		20:32-GMT	Position: 247° / 338 m Dir: West; Behavior: Slow travel	
Feb 13 Day 6 of 105	Total 5 Calves 0	Er Gray whale (northbound)		
	23	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:35:00 PST	Blow	
		22:35-GMT	Position: 118° / 1674 m Dir: West; Behavior: Slow travel	
		14:42:00 PST	Blow	
		22:42-GMT	Position: 134° / 946 m Dir: West; Behavior: Slow travel • Fluke	
		14:45:00 PST	Blow	
		22:45-GMT	Position: 156° / 455 m Dir: West; Behavior: Slow travel	
		14:49:00 PST	Blow	
		22:49-GMT	Position: 193° / 550 m Dir: West; Behavior: Slow travel	
		14:51:00 PST	Blow	
		22:51-GMT	Position: 210° / 574 m Dir: West; Behavior: Slow travel	
		14:58:00 PST	Blow	Inside / Outside
		22:58-GMT	Position: 248° / 1208 m Dir: West; Behavior: Slow travel • Fluke	
	25	Good - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:19:00 PST	Blow	
		23:19-GMT	Position: 180° / 1106 m Dir: West; Behavior: Slow travel	
		15:21:00 PST	Blow	
		23:21-GMT	Position: 192° / 1208 m Dir: West; Behavior: Slow travel	
		15:22:00 PST	Blow	
		23:22-GMT	Position: 197° / 1331 m Dir: West; Behavior: Slow travel	
		15:26:00 PST	Blow	Inside / Outside
		23:26-GMT	Position: 214° / 1331 m Dir: West; Behavior: Slow travel	
	26	Good - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:41:00 PST	Blow	
		23:41-GMT	Position: 173° / 1208 m Dir: West; Behavior: Slow travel • Fluke	
		15:47:00 PST	Blow	
		23:47-GMT	Position: 221° / 1331 m Dir: West; Behavior: Slow travel	
		15:54:00 PST	Blow	Inside / Outside
		23:54-GMT	Position: 244° / 1674 m Dir: West; Behavior: Slow travel	
Feb 14 Day 7 of 105	Total 4 Calves 0	Er Gray whale (northbound)		
	07	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:18:00 PST	Blow	
		21:18-GMT	Position: 98° / 2749 m Dir: West; Behavior: Slow travel	
			Condor on whales @ Campus Point	
		13:36:00 PST	Blow	
		21:36-GMT	Position: 108° / 2260 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:43:00 PST	Blow	
		21:43-GMT	Position: 115° / 1483 m Dir: West; Behavior: Slow travel	
		13:48:00 PST	Blow	
		21:48-GMT	Position: 119° / 1483 m Dir: West; Behavior: Slow travel	
		13:49:00 PST	Blow	
		21:49-GMT	Position: 123° / 827 m Dir: West; Behavior: Slow travel	
		13:51:00 PST	Blow	
		21:51-GMT	Position: 120° / 827 m Dir: West; Behavior: Slow travel	
		13:52:00 PST	Blow	
		21:52-GMT	Position: 132° / 778 m Dir: West; Behavior: Slow travel	
		13:53:00 PST	Blow	
		21:53-GMT	Position: 137° / 600 m Dir: West; Behavior: Slow travel	
		13:54:00 PST	Body	
		21:54-GMT	Position: 140° / 489 m Dir: West; Behavior: Slow travel	
		13:55:00 PST	Blow	
		21:55-GMT	Position: 161° / 412 m Dir: West; Behavior: Slow travel	
		13:59:00 PST	Blow	
		21:59-GMT	Position: 219° / 388 m Dir: West; Behavior: Slow travel	
		14:01:00 PST	Blow	Inside /
		22:01-GMT	Position: 240° / 574 m Dir: West; Behavior: Slow travel	Outside
	09	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:29:00 PST	Blow	
		21:29-GMT	Position: 170° / 2260 m Dir: West; Behavior: Slow travel	
			<i>Condor on whales</i>	
		13:32:00 PST	Body	
		21:32-GMT	Position: 174° / 2260 m Dir: West; Behavior: Slow travel	
		13:34:00 PST	Blow	
		21:34-GMT	Position: 179° / 2260 m Dir: West; Behavior: Slow travel	
		13:39:00 PST	Blow	
		21:39-GMT	Position: 181° / 2260 m Dir: West; Behavior: Still, not moving	
		13:41:00 PST	Blow	
		21:41-GMT	Position: 183° / 1922 m Dir: West; Behavior: Slow travel	
		13:43:00 PST	Blow	
		21:43-GMT	Position: 192° / 2260 m Dir: West; Behavior: Slow travel	
		13:45:00 PST	Body	
		21:45-GMT	Position: 193° / 2260 m Dir: West; Behavior: Slow travel	
		13:52:00 PST	Blow	ND / Outside
		21:52-GMT	Position: 214° / 2260 m Dir: West; Behavior: Slow travel	

Feb 15 Total 6 Calves 0
Day 8 of 105

Er Gray whale (northbound)

01 Fair - 0 *Er*Total 1 — 0 Calves at sighting

9:11:00 PST Blow
17:11-GMT Position: 136° / 1403 m Dir: West; Behavior: Slow travel
small juvenile

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		9:41:00 PST	Body	Inside /
		17:41-GMT	Position: 270° / 1674 m Dir: West; Behavior: Slow travel • Fluke	Through
			<i>seen by passerby @ about 9:20</i>	
	07	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:35:00 PST	Blow	
		19:35-GMT	Position: 166° / 883 m Dir: West; Behavior: Slow travel	
		11:38:00 PST	Blow	
		19:38-GMT	Position: 222° / 600 m Dir: West; Behavior: Slow travel	
		11:39:00 PST	Blow	Inside / ND
		19:39-GMT	Position: 228° / 600 m Dir: West; Behavior: Slow travel	
	12	Good - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
		12:39:00 PST	Blow	
		20:39-GMT	Position: 184° / 2749 m Dir: West; Behavior: Slow travel	
		12:43:00 PST	Body	
		20:43-GMT	Position: 198° / 2260 m Dir: West; Behavior: Slow travel	
			<i>saw blow right after one whale surfaced without a visible blow</i>	
		12:45:00 PST	Blow	
		20:45-GMT	Position: 204° / 3528 m Dir: West; Behavior: Slow travel	
		12:46:00 PST	Blow	
		20:46-GMT	Position: 208° / 2749 m Dir: West; Behavior: Slow travel	
			<i>consecutive blows -- see bodies! (says intern)</i>	
		12:51:00 PST	Blow	
		20:51-GMT	Position: 227° / 3088 m Dir: West; Behavior: Slow travel	
		12:55:00 PST	Blow	
		20:55-GMT	Position: 230° / 3088 m Dir: West; Behavior: Slow travel	
		12:58:00 PST	Blow	
		20:58-GMT	Position: 237° / 3088 m Dir: West; Behavior: Slow travel	
		12:59:00 PST	Blow	Inside /
		20:59-GMT	Position: 241° / 3528 m Dir: West; Behavior: Slow travel	Outside
	21	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		16:41:00 PST	Body	
		0:41	Position: 162° / 1331 m Dir: West; Behavior: Slow travel	
		16:55:00 PST	Blow	
		0:55	Position: 221° / 1331 m Dir: West; Behavior: Slow travel	
		16:56:00 PST	Blow	
		0:56	Position: 226° / 1483 m Dir: West; Behavior: Slow travel	
		16:56:00 PST	Blow	
		0:56	Position: 226° / 1483 m Dir: West; Behavior: Slow travel	
		16:59:00 PST	Blow	Inside /
		0:59	Position: 241° / 1483 m Dir: West; Behavior: Slow travel	Outside

Feb 16 Total 1 Calves 0
Day 9 of 105

Er Gray whale (northbound)

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	07	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:40:00 PST	Blow	
		20:40-GMT	Position: 121° / 1483 m Dir: West; Behavior: Slow travel	
		12:46:00 PST	Blow	
		20:46-GMT	Position: 147° / 696 m Dir: West; Behavior: Slow travel	
		12:50:00 PST	Blow	
		20:50-GMT	Position: 174° / 528 m Dir: West; Behavior: Slow travel	
		12:53:00 PST	Blow	
		20:53-GMT	Position: 206° / 550 m Dir: West; Behavior: Slow travel	
		12:56:00 PST	Blow	Inside /
		20:56-GMT	Position: 141° / m Dir: West; Behavior: Slow travel	Outside
Feb 17 Day 10 of 105	Total 5 Calves 0	Er Gray whale (northbound)		
	03	Fair - 0	<i>Er</i> Total 4 — 0 Calves at sighting	
		10:34:00 PST	Blow	
		18:34-GMT	Position: 162° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		10:44:00 PST	Blow	
		18:44-GMT	Position: 170° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		10:52:00 PST	Blow	
		18:52-GMT	Position: 175° / 3528 m Dir: West; Behavior: Slow travel	
		10:55:00 PST	Blow	
		18:55-GMT	Position: 178° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		11:00:00 PST	Blow	
		19:00-GMT	Position: 186° / 3088 m Dir: West; Behavior: Slow travel	
		11:08:00 PST	Blow	
		19:08-GMT	Position: 196° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		11:14:00 PST	Blow	
		19:14-GMT	Position: 208° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		11:19:00 PST	Blow	ND / ND
		19:19-GMT	Position: 217° / 2260 m Dir: West; Behavior: Slow travel	
	09	Good - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:16:00 PST	Blow	
		21:16-GMT	Position: 155° / 539 m Dir: West; Behavior: Slow travel	
		13:22:00 PST	Blow	
		21:22-GMT	Position: 233° / 539 m Dir: West; Behavior: Slow travel	
		13:23:00 PST	Blow	Inside / ND
		21:23-GMT	Position: 235° / 550 m Dir: West; Behavior: Slow travel	
Feb 18 Day 11 of 105	Total 7 Calves 0	Er Gray whale (northbound)		
	01	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:10:00 PST	Body	
		17:10-GMT	Position: 154° / 827 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau		
	Number	Time	Blow/Body	Holly/Buoys
		9:13:00 PST	Blow	
		17:13-GMT	Position: 177° / 827 m Dir: West; Behavior: Slow travel	
		9:15:00 PST	Blow	
		17:15-GMT	Position: 202° / 550 m Dir: West; Behavior: Slow travel	
		9:19:00 PST	Blow	Inside / ND
		17:19-GMT	Position: 238° / 696 m Dir: West; Behavior: Slow travel	
			<i>moved right along - no fluking - not long downtime</i>	
06	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting		
		9:48:00 PST	Body	
		17:48-GMT	Position: 151° / 3088 m Dir: West; Behavior: Slow travel	
		9:52:00 PST	Body	
		17:52-GMT	Position: 155° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		9:55:00 PST	ni	
		17:55-GMT	Position: 162° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		10:05:00 PST	Body	
		18:05-GMT	Position: 182° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		10:15:00 PST	Body	
		18:15-GMT	Position: 210° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		10:34:00 PST	Body	ND / Outside
		18:34-GMT	Position: 249° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
07	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		10:17:00 PST	Body	
		18:17-GMT	Position: 200° / 300 m Dir: West; Behavior: Slow travel	
		10:21:00 PST	Body	
		18:21-GMT	Position: 264° / 539 m Dir: West; Behavior: Slow travel	
		10:22:00 PST	Body	
		18:22-GMT	Position: 273° / 528 m Dir: West; Behavior: Slow travel	
		10:26:00 PST	Blow	Inside / Inside
		18:26-GMT	Position: 297° / 1700 m Dir: West; Behavior: Slow travel	
17	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		12:55:00 PST	Body	
		20:55-GMT	Position: 125° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		13:01:00 PST	Blow	
		21:01-GMT	Position: 135° / 1106 m Dir: West; Behavior: Slow travel	
			<i>moving right along</i>	
		13:03:00 PST	Blow	
		21:03-GMT	Position: 145° / 883 m Dir: West; Behavior: Slow travel	
		13:06:00 PST	Blow	
		21:06-GMT	Position: 159° / 696 m Dir: West; Behavior: Slow travel	
		13:09:00 PST	Blow	
		21:09-GMT	Position: 190° / 661 m Dir: West; Behavior: Slow travel • Fluke	
		13:18:00 PST	Blow	Inside / Outside
		21:18-GMT	Position: 245° / 1483 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	27	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:16:00 PST	Blow	
		23:16-GMT	Position: 194° / 2749 m Dir: West; Behavior: Slow travel	
		15:18:00 PST	Blow	
		23:18-GMT	Position: 197° / 2749 m Dir: West; Behavior: Slow travel	
		15:22:00 PST	Breach	
		23:22-GMT	Position: 206° / 3528 m Dir: West; Behavior: Slow travel	
		15:24:00 PST	Blow	
		23:24-GMT	Position: 209° / 2749 m Dir: West; Behavior: Slow travel	
		15:25:00 PST	Blow	
		23:25-GMT	Position: 211° / 3528 m Dir: West; Behavior: Slow travel	
		15:25:00 PST	Blow	
		23:25-GMT	Position: 214° / 3528 m Dir: West; Behavior: Slow travel	
		15:26:00 PST	Blow	
		23:26-GMT	Position: 212° / 3528 m Dir: West; Behavior: Slow travel	
		15:30:00 PST	Blow	
		23:30-GMT	Position: 223° / 3528 m Dir: West; Behavior: Slow travel	
			<i>perhaps two groups???</i>	
		15:31:00 PST	Blow	
		23:31-GMT	Position: 224° / 3528 m Dir: West; Behavior: Slow travel	
			<i>2 blows, 1 minute gap, then 4 blows in same spot. (Intern description)</i>	
		15:49:00 PST	Blow	Outside /
		23:49-GMT	Position: 239° / 3528 m Dir: West; Behavior: Slow travel	Outside
			<i>many consecutive blows (intern description) Number of animals determined by MHS.</i>	
Feb 19 Day 12 of 105	Total 1 Calves 0	Er Gray whale (northbound)		
	07	Good - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:47:00 PST	Blow	
		20:47-GMT	Position: 131° / 3528 m Dir: nd; Behavior: Still, not moving	
		12:53:00 PST	Blow	
		20:53-GMT	Position: 132° / 3528 m Dir: nd; Behavior: Still, not moving	
		13:04:00 PST	Blow	
		21:04-GMT	Position: 134° / 3528 m Dir: West; Behavior: Slow travel	
		13:14:00 PST	Blow	
		21:14-GMT	Position: 144° / 2749 m Dir: West; Behavior: Slow travel	
		13:22:00 PST	Blow	
		21:22-GMT	Position: 151° / 2749 m Dir: West; Behavior: Slow travel	
		13:30:00 PST	Blow	
		21:30-GMT	Position: 170° / 2260 m Dir: West; Behavior: Slow travel	
		13:39:00 PST	Blow	
		21:39-GMT	Position: 197° / 1674 m Dir: West; Behavior: Slow travel	
		13:41:00 PST	Blow	Inside /
		21:41-GMT	Position: 202° / 1922 m Dir: West; Behavior: Slow travel	Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau	Time	Blow/Body	Holly/Buoys
Feb 20 Day 13 of 105	Total 2 Calves 0		Er Gray whale (northbound)		
	11	Fair - 4	<i>Er</i> Total 1 — 0 Calves at sighting		
			14:26:00 PST	Blow	
			22:26-GMT	Position: 187° / 661 m Dir: West; Behavior: Slow travel	
			14:35:00 PST	Blow	Inside /
			22:35-GMT	Position: 251° / 1483 m Dir: West; Behavior: Slow travel	Outside
	12	Fair - 4	<i>Er</i> Total 1 — 0 Calves at sighting		
			14:41:00 PST	Blow	
			22:41-GMT	Position: 189° / 778 m Dir: West; Behavior: Slow travel	
			14:48:00 PST	Blow	
			22:48-GMT	Position: 246° / 946 m Dir: West; Behavior: Slow travel	
			14:50:00 PST	Blow	Inside /
			22:50-GMT	Position: 253° / 1483 m Dir: West; Behavior: Slow travel	Outside
Feb 21 Day 14 of 105	Total 3 Calves 0		Er Gray whale (northbound)		
	02	Poor - 3	<i>Er</i> Total 1 — 0 Calves at sighting		
			11:09:00 PST	Blow	
			19:09-GMT	Position: 114° / 2749 m Dir: West; Behavior: Slow travel	
			11:22:00 PST	Blow	
			19:22-GMT	Position: 117° / 2260 m Dir: West; Behavior: Slow travel	
			11:24:00 PST	Blow	
			19:24-GMT	Position: 119° / 1674 m Dir: West; Behavior: Slow travel	
			11:31:00 PST	Blow	
			19:31-GMT	Position: 131° / 1208 m Dir: West; Behavior: Slow travel	
			11:36:00 PST	Blow	
			19:36-GMT	Position: 153° / 696 m Dir: West; Behavior: Slow travel	
			11:43:00 PST	Blow	
			19:43-GMT	Position: 218° / 827 m Dir: West; Behavior: Slow travel	
			11:48:00 PST	Blow	
			19:48-GMT	Position: 243° / 1106 m Dir: West; Behavior: Slow travel	
			11:51:00 PST	Blow	Inside /
			19:51-GMT	Position: 252° / 1483 m Dir: West; Behavior: Slow travel	Outside
	03	Fair - 4	<i>Er</i> Total 2 — 0 Calves at sighting		
			11:53:00 PST	Blow	
			19:53-GMT	Position: 123° / 1674 m Dir: West; Behavior: Slow travel	
			12:02:00 PST	Blow	
			20:02-GMT	Position: 125° / 1483 m Dir: West; Behavior: Slow travel	
			12:07:00 PST	Blow	
			20:07-GMT	Position: 139° / 946 m Dir: West; Behavior: Slow travel	
			12:10:00 PST	Blow	
			20:10-GMT	Position: 156° / 600 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:13:00 PST	Blow	
		20:13-GMT	Position: 165° / 946 m Dir: West; Behavior: Slow travel	
		12:17:00 PST	Blow	
		20:17-GMT	Position: 201° / 946 m Dir: West; Behavior: Slow travel	
		12:21:00 PST	Blow	
		20:21-GMT	Position: 233° / 696 m Dir: West; Behavior: Slow travel	
		12:22:00 PST	Blow	
		20:22-GMT	Position: 238° / 735 m Dir: West; Behavior: Slow travel	
		12:24:00 PST	Blow	
		20:24-GMT	Position: 250° / 883 m Dir: West; Behavior: Slow travel	
		12:31:00 PST	Blow	Inside /
		20:31-GMT	Position: 257° / 1331 m Dir: West; Behavior: Slow travel	Outside
Feb 22 Day 15 of 105	Total 11 Calves 0	Er Gray whale (northbound)		
	01	Fair - 4	<i>Er</i>	
		9:56:00 PST	Breach	
		17:56-GMT	Position: 203° / 3528 m Dir: West; Behavior: Slow travel • Breach	
		10:05:00 PST	Blow	
		18:05-GMT	Position: 212° / 3528 m Dir: West; Behavior: Slow travel	
	03	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:16:00 PST	Blow	
		19:16-GMT	Position: 118° / 1208 m Dir: West; Behavior: Slow travel	
			<i>young whale</i>	
		11:23:00 PST	Blow	
		19:23-GMT	Position: 147° / 489 m Dir: West; Behavior: Slow travel	
		11:25:00 PST	Body	
		19:25-GMT	Position: 170° / 455 m Dir: West; Behavior: Slow travel	
		11:27:00 PST	Blow	
		19:27-GMT	Position: 188° / 412 m Dir: West; Behavior: Slow travel	
		11:32:00 PST	Blow	
		19:32-GMT	Position: 250° / 426 m Dir: West; Behavior: Slow travel	
		11:34:00 PST	Blow	
		19:34-GMT	Position: 263° / 489 m Dir: West; Behavior: Slow travel	
		11:39:00 PST	Blow	Inside / Inside
		19:39-GMT	Position: 294° / 778 m Dir: West; Behavior: Slow travel	
	04	Good - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:44:00 PST	Blow	
		19:44-GMT	Position: 137° / 1922 m Dir: West; Behavior: Slow travel	
		11:51:00 PST	Blow	
		19:51-GMT	Position: 152° / 1331 m Dir: West; Behavior: Slow travel	
		11:59:00 PST	Blow	
		19:59-GMT	Position: 182° / 1208 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:06:00 PST	Blow	Inside /
		20:06-GMT	Position: 214° / 1331 m Dir: West; Behavior: Slow travel	Outside
			<i>disappeared approaching Holly</i>	
	05	Good - 3	<i>Er</i> Total 3 — 0 Calves at sighting	
		12:08:00 PST	Blow	
		20:08-GMT	Position: 147° / 3088 m Dir: West; Behavior: Slow travel	
		12:16:00 PST	Blow	
		20:16-GMT	Position: 152° / 3088 m Dir: West; Behavior: Slow travel	
		12:20:00 PST	Blow	
		20:20-GMT	Position: 155° / 3088 m Dir: West; Behavior: Slow travel	
		12:29:00 PST	Blow	
		20:29-GMT	Position: 163° / 3088 m Dir: West; Behavior: Slow travel	
		12:30:00 PST	Blow	
		20:30-GMT	Position: 166° / 3088 m Dir: West; Behavior: Slow travel	
		12:41:00 PST	Blow	
		20:41-GMT	Position: 175° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		12:44:00 PST	Blow	
		20:44-GMT	Position: 180° / 2749 m Dir: West; Behavior: Slow travel	
		12:51:00 PST	Blow	
		20:51-GMT	Position: 187° / 3088 m Dir: West; Behavior: Slow travel	
		12:56:00 PST	Breach	
		20:56-GMT	Position: 196° / 3088 m Dir: West; Behavior: Slow travel • Breach	
		13:03:00 PST	Blow	
		21:03-GMT	Position: 210° / 3088 m Dir: West; Behavior: Slow travel	
		13:08:00 PST	Blow	
		21:08-GMT	Position: 218° / 3088 m Dir: West; Behavior: Slow travel	
		13:17:00 PST	Blow	
		21:17-GMT	Position: 227° / 3528 m Dir: West; Behavior: Slow travel	
		13:21:00 PST	Blow	
		21:21-GMT	Position: 230° / 3528 m Dir: West; Behavior: Slow travel	
		13:22:00 PST	Blow	
		21:22-GMT	Position: 231° / 3528 m Dir: West; Behavior: Slow travel	
		13:26:00 PST	Blow	Outside /
		21:26-GMT	Position: 236° / 3528 m Dir: West; Behavior: Slow travel	Outside
	10	Fair - 4	<i>Er</i> Total 3 — 0 Calves at sighting	
		14:58:00 PST	Body	
		22:58-GMT	Position: 151° / 1403 m Dir: West; Behavior: Slow travel	
		15:03:00 PST	Blow	
		23:03-GMT	Position: 171° / 1483 m Dir: West; Behavior: Slow travel	
		15:11:00 PST	Blow	
		23:11-GMT	Position: 204° / 1331 m Dir: West; Behavior: Slow travel	
		15:15:00 PST	Blow	Inside /
		23:15-GMT	Position: 217° / 1331 m Dir: West; Behavior: Slow travel	Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	11	Fair - 3	<i>Er</i> Total 3 — 0 Calves at sighting	
		15:28:00 PST	Blow	
		23:28-GMT	Position: 177° / 3088 m Dir: West; Behavior: Slow travel	
		15:40:00 PST	Blow	
		23:40-GMT	Position: 191° / 3088 m Dir: West; Behavior: Slow travel	
		15:49:00 PST	Blow	
		23:49-GMT	Position: 202° / 3088 m Dir: West; Behavior: Slow travel	
		15:58:00 PST	Blow	
		23:58-GMT	Position: 215° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		16:06:00 PST	Blow	
		0:06	Position: 222° / 3528 m Dir: West; Behavior: Slow travel	
		16:10:00 PST	Blow	
		0:10	Position: 225° / 3528 m Dir: West; Behavior: Slow travel	
		16:17:00 PST	Blow	
		0:17	Position: 231° / 3528 m Dir: West; Behavior: Slow travel	
		16:28:00 PST	Blow	Outside /
		0:28	Position: 238° / 3528 m Dir: West; Behavior: Slow travel	Outside
Feb 23	Total 1 Calves 0	Er Gray whale (northbound)		
Day 16 of 105				
	28	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:03:00 PST	Body	
		23:03-GMT	Position: 129° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
		15:14:00 PST	Body	
		23:14-GMT	Position: 177° / 550 m Dir: West; Behavior: Slow travel • Fluke	
		15:25:00 PST	Blow	Inside /
		23:25-GMT	Position: 249° / 946 m Dir: West; Behavior: Slow travel • Fluke	Outside
Feb 25	Total 6 Calves 0	Er Gray whale (northbound)		
Day 18 of 105				
	04	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:41:00 PST	Blow	
		18:41-GMT	Position: 127° / 1922 m Dir: West; Behavior: Slow travel	
		10:48:00 PST	Blow Images: MHS2345-6	
		18:48-GMT	Position: 151° / 1208 m Dir: West; Behavior: Slow travel	
		10:51:00 PST	Blow	ND / ND
		18:51-GMT	Position: 171° / 827 m Dir: West; Behavior: Slow travel <i>a lot of breaths to about 187°, then disappeared</i>	
	08	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		12:58:00 PST	Blow	
		20:58-GMT	Position: 128° / 1208 m Dir: West; Behavior: Slow travel	
		13:00:00 PST	Blow	
		21:00-GMT	Position: 135° / 913 m Dir: West; Behavior: Slow travel	
		13:07:00 PST	Blow	
		21:07-GMT	Position: 151° / 696 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:14:00 PST	Blow	
		21:14-GMT	Position: 225° / 528 m Dir: West; Behavior: Slow travel	
		13:15:00 PST	Blow	
		21:15-GMT	Position: 233° / 550 m Dir: West; Behavior: Slow travel	
		13:17:00 PST	Blow	
		21:17-GMT	Position: 245° / 678 m Dir: West; Behavior: Slow travel	
		13:19:00 PST	Blow	
		21:19-GMT	Position: 259° / 778 m Dir: West; Behavior: Slow travel	
		13:24:00 PST	Blow	Inside /
		21:24-GMT	Position: 281° / 1331 m Dir: West; Behavior: Slow travel	Through
	15	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:07:00 PST	Blow	
		0:07	Position: 185° / 1331 m Dir: West; Behavior: Slow travel	
		16:09:00 PST	Blow	
		0:09	Position: 207° / 1208 m Dir: West; Behavior: Slow travel	
		16:15:00 PST	Blow	
		0:15	Position: 236° / 1208 m Dir: West; Behavior: Slow travel	
		16:17:00 PST	Blow	Inside /
		0:17	Position: 244° / 1208 m Dir: West; Behavior: Slow travel	Outside
Feb 26	Total 4 Calves 0	Er Gray whale (northbound)		
Day 19 of 105				
	11	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:59:00 PST	Body	Inside / ND
		18:59-GMT	Position: 224° / 539 m Dir: West; Behavior: Slow travel	
		<i>Er snorkeling -- V#5 traveled over submerged whale -- interaction not recorded</i>		
	26	Poor - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:27:00 PST	Blow	
		23:27-GMT	Position: 101° / 3528 m Dir: West; Behavior: Slow travel	
		15:35:00 PST	Blow	
		23:35-GMT	Position: 102° / 3528 m Dir: West; Behavior: Slow travel	
		16:04:00 PST	Blow	
		0:04	Position: 133° / 1331 m Dir: West; Behavior: Slow travel	
		16:18:00 PST	Blow	
		0:18	Position: 193° / 600 m Dir: West; Behavior: Slow travel	
		16:25:00 PST	Blow	
		0:25	Position: 236° / 696 m Dir: West; Behavior: Slow travel	
		16:29:00 PST	Body	Inside /
		0:29	Position: 254° / 1106 m Dir: West; Behavior: Slow travel	Outside
	29	Poor - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:43:00 PST	Blow	
		0:43	Position: 109° / 2749 m Dir: West; Behavior: Slow travel	
		16:47:00 PST	Blow	
		0:47	Position: 113° / 2749 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		16:49:00 PST 0:49	Blow Position: 114° / 2749 m Dir: West; Behavior: Slow travel	
		16:51:00 PST 0:51	Blow Position: 117° / 2749 m Dir: West; Behavior: Slow travel	
		16:54:00 PST 0:54	Blow Position: 121° / 2260 m Dir: West; Behavior: Slow travel	
		16:58:00 PST 0:58	Blow Position: 127° / 1922 m Dir: West; Behavior: Slow travel	
		17:02:00 PST 1:02	Blow Position: 139° / 1674 m Dir: West; Behavior: Slow travel	
		17:10:00 PST 1:10	Blow Position: 170° / 1483 m Dir: West; Behavior: Slow travel	
		17:12:00 PST 1:12	Blow Position: 177° / 1208 m Dir: West; Behavior: Slow travel • Fluke	ND / ND
Feb 28 Day 21 of 105	Total 7 Calves 0	Er Gray whale (northbound)		
	05	Good - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:23:00 PST 20:23-GMT	Blow Position: 133° / 661 m Dir: West; Behavior: Slow travel	
		12:27:00 PST 20:27-GMT	Blow Position: 179° / 388 m Dir: West; Behavior: Slow travel	
		12:29:00 PST 20:29-GMT	Blow Position: 222° / 426 m Dir: West; Behavior: Slow travel	
		12:31:00 PST 20:31-GMT	Blow Position: 250° / 489 m Dir: West; Behavior: Slow travel	
		12:31:00 PST 20:31-GMT	Body Position: 254° / 489 m Dir: West; Behavior: Slow travel	Inside / ND
	08	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:05:00 PST 21:05-GMT	Blow Position: 154° / 3528 m Dir: West; Behavior: Slow travel <i>spotted by Condor Express</i>	
		13:10:00 PST 21:10-GMT	Blow Position: 169° / 3088 m Dir: West; Behavior: Slow travel	
		13:12:00 PST 21:12-GMT	Blow Position: 174° / 1922 m Dir: West; Behavior: Slow travel	
		13:17:00 PST 21:17-GMT	Blow Position: 188° / 2260 m Dir: West; Behavior: Slow travel	
		13:21:00 PST 21:21-GMT	Blow Position: 199° / 1674 m Dir: West; Behavior: Slow travel	
		13:28:00 PST 21:28-GMT	Blow Position: 227° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		13:37:00 PST 21:37-GMT	Blow Position: 246° / 3088 m Dir: West; Behavior: Slow travel	Inside / Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
	09	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:41:00 PST	Blow	
		21:41-GMT	Position: 191° / 1331 m Dir: West; Behavior: Slow travel	
		13:43:00 PST	Blow	
		21:43-GMT	Position: 199° / 1106 m Dir: West; Behavior: Slow travel	
		13:48:00 PST	Blow	Inside /
		21:48-GMT	Position: 221° / 1483 m Dir: West; Behavior: Slow travel	Outside
	10	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:44:00 PST	Blow	
		21:44-GMT	Position: 218° / 913 m Dir: West; Behavior: Slow travel	
		13:45:00 PST	Blow	
		21:45-GMT	Position: 231° / 1020 m Dir: West; Behavior: Slow travel	
		13:50:00 PST	Blow	
		21:50-GMT	Position: 242° / 946 m Dir: West; Behavior: Slow travel	
		13:51:00 PST	Blow	Inside /
		21:51-GMT	Position: 246° / 1331 m Dir: West; Behavior: Slow travel	Outside
	14	Fair - 0	<i>Er</i> Total 3 — 0 Calves at sighting	
		16:29:00 PST	Blow	
		0:29	Position: 142° / 3528 m Dir: West; Behavior: Slow travel	
		<i>2 + 1</i> <i>tip from Condor</i>		
		16:43:00 PST	Blow	
		0:43	Position: 157° / 3088 m Dir: West; Behavior: Slow travel	
		16:54:00 PST	Blow	
		0:54	Position: 171° / 2749 m Dir: West; Behavior: Slow travel	
		17:00:00 PST	Blow	ND / ND
		1:00	Position: 179° / 2749 m Dir: West; Behavior: Slow travel • Fluke	

Mar 01 Total 15 Calves 0
Day 22 of 105

Er Gray whale (northbound)

	03	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:16:00 PST	Blow	
		17:16-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel	
		9:22:00 PST	Blow	
		17:22-GMT	Position: 108° / 2749 m Dir: West; Behavior: Slow travel	
		9:30:00 PST	Blow	
		17:30-GMT	Position: 116° / 1922 m Dir: West; Behavior: Slow travel	
		9:47:00 PST	Body	
		17:47-GMT	Position: 221° / 661 m Dir: West; Behavior: Slow travel • Fluke	
		9:54:00 PST	Blow	Inside /
		17:54-GMT	Position: 261° / 1483 m Dir: West; Behavior: Slow travel	Outside
	08	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:40:00 PST	Blow	
		18:40-GMT	Position: 112° / 2260 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:44:00 PST	Blow	
		18:44-GMT	Position: 121° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
		10:48:00 PST	Blow	
		18:48-GMT	Position: 127° / 1483 m Dir: West; Behavior: Slow travel	
		10:50:00 PST	Blow	
		18:50-GMT	Position: 137° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		10:57:00 PST	Blow	
		18:57-GMT	Position: 170° / 735 m Dir: West; Behavior: Slow travel • Fluke	
		11:00:00 PST	Blow	
		19:00-GMT	Position: 190° / 678 m Dir: West; Behavior: Slow travel	
		11:08:00 PST	Blow	
		19:08-GMT	Position: 221° / 661 m Dir: West; Behavior: Slow travel	
		11:09:00 PST	Blow	
		19:09-GMT	Position: 227° / 678 m Dir: West; Behavior: Slow travel	
		11:11:00 PST	Blow	
		19:11-GMT	Position: 216° / 827 m Dir: West; Behavior: Slow travel	
		11:21:00 PST	ni	Inside /
		19:21-GMT	Position: 229° / 913 m Dir: West; Behavior: Slow travel • Fluke	Outside
		<i>feeding ? Whales separated in front of Counter Pt — Showy approaching Point — One fluked, other didn't</i>		
13	Fair - 0	ErTotal 4 — 0 Calves at sighting		
		12:43:00 PST	Blow	
		20:43-GMT	Position: 169° / 5027 m Dir: West; Behavior: Slow travel	
		12:47:00 PST	Blow	
		20:47-GMT	Position: 175° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		12:51:00 PST	Blow	
		20:51-GMT	Position: 180° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		12:53:00 PST	Blow	
		20:53-GMT	Position: 184° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		12:57:00 PST	Blow	
		20:57-GMT	Position: 190° / 3528 m Dir: West; Behavior: Slow travel	
		13:09:00 PST	Blow	
		21:09-GMT	Position: 204° / 3528 m Dir: West; Behavior: Slow travel	
		13:14:00 PST	Blow	
		21:14-GMT	Position: 213° / 3528 m Dir: West; Behavior: Slow travel	
		13:16:00 PST	Blow	
		21:16-GMT	Position: 216° / 3528 m Dir: West; Behavior: Slow travel	
		13:20:00 PST	Blow	
		21:20-GMT	Position: 222° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		13:27:00 PST	Blow	Outside /
		21:27-GMT	Position: 231° / 3528 m Dir: West; Behavior: Slow travel	Outside
16	Fair - 2	ErTotal 1 — 0 Calves at sighting		
		14:29:00 PST	Blow	
		22:29-GMT	Position: 119° / 2749 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		14:46:00 PST	Blow	
		22:46-GMT	Position: 119° / 2260 m Dir: West; Behavior: Slow travel	
		14:56:00 PST	Blow	
		22:56-GMT	Position: 137° / 946 m Dir: West; Behavior: Slow travel • Fluke	
		15:07:00 PST	Blow	Inside / ND
		23:07-GMT	Position: 220° / 883 m Dir: West; Behavior: Slow travel	
	17	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:42:00 PST	Blow	
		22:42-GMT	Position: 221° / 1674 m Dir: West; Behavior: Slow travel	
		14:51:00 PST	Blow	Inside /
		22:51-GMT	Position: 255° / 2260 m Dir: West; Behavior: Slow travel	Outside
	18	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:15:00 PST	Blow	
		23:15-GMT	Position: 126° / 1674 m Dir: West; Behavior: Slow travel	
		15:19:00 PST	Blow	
		23:19-GMT	Position: 134° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
		15:32:00 PST	Body	Inside /
		23:32-GMT	Position: 201° / 1483 m Dir: West; Behavior: Slow travel	Outside
	21	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:57:00 PST	Blow	
		23:57-GMT	Position: 140° / 1674 m Dir: West; Behavior: Slow travel	
		16:02:00 PST	Blow	
		0:02	Position: 153° / 1331 m Dir: West; Behavior: Slow travel	
		16:08:00 PST	Blow	ND / ND
		0:08	Position: 186° / 1020 m Dir: West; Behavior: Slow travel	
	22	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:59:00 PST	Blow	
		23:59-GMT	Position: 155° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		16:20:00 PST	Blow	
		0:20	Position: 220° / 2260 m Dir: West; Behavior: Slow travel	
		16:26:00 PST	Blow	
		0:26	Position: 232° / 2260 m Dir: West; Behavior: Slow travel	
		16:28:00 PST	Blow	Inside /
		0:28	Position: 237° / 2260 m Dir: West; Behavior: Slow travel	Outside

Mar 02 Total 8 Calves 0
Day 23 of 105

Er Gray whale (northbound)

07	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting		
		10:19:00 PST	Blow	
		18:19-GMT	Position: 162° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		10:29:00 PST	Body	
		18:29-GMT	Position: 197° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		10:32:00 PST	Blow	
		18:32-GMT	Position: 213° / 1674 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:34:00 PST	Blow	
		18:34-GMT	Position: 213° / 1674 m Dir: East; Behavior: Slow travel <i>turned around</i>	
		10:36:00 PST	Blow	
		18:36-GMT	Position: 224° / 1922 m Dir: East; Behavior: Slow travel	
		10:44:00 PST	Blow	Inside /
		18:44-GMT	Position: 242° / 2260 m Dir: East; Behavior: Slow travel	Outside
08	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting		
		10:22:00 PST	Blow	
		18:22-GMT	Position: 197° / 1331 m Dir: West; Behavior: Slow travel • Fluke <i>seen first time about 160° at same time as S#7</i>	
		10:25:00 PST	Blow	Inside /
		18:25-GMT	Position: 207° / 1331 m Dir: West; Behavior: Slow travel • Fluke	Outside
11	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting		
		11:16:00 PST	Blow	
		19:16-GMT	Position: 132° / 1483 m Dir: West; Behavior: Slow travel	
		11:23:00 PST	Body	ND / ND
		19:23-GMT	Position: 162° / 1331 m Dir: West; Behavior: Slow travel	
19	Fair - 2	<i>Er</i>		
		12:18:00 PST	Blow	
		20:18-GMT	Position: 147° / 2749 m Dir: West; Behavior: Slow travel • Fluke <i>3 + 1</i>	
		12:24:00 PST	Blow	
		20:24-GMT	Position: 155° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		12:32:00 PST	Blow	
		20:32-GMT	Position: 167° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
		12:36:00 PST	Body	
		20:36-GMT	Position: 186° / 1331 m Dir: West; Behavior: Slow travel	
		12:39:00 PST	Blow	
		20:39-GMT	Position: 197° / 1331 m Dir: West; Behavior: Slow travel	
		12:41:00 PST	Body	
		20:41-GMT	Position: 207° / 1106 m Dir: West; Behavior: Slow travel	
		12:45:00 PST	Body	
		20:45-GMT	Position: 229° / 1208 m Dir: West; Behavior: Slow travel • Fluke	
		12:54:00 PST	Blow	
		20:54-GMT	Position: 269° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
		12:58:00 PST	Blow	
		20:58-GMT	Position: 284° / 1483 m Dir: West; Behavior: Slow travel	
		13:05:00 PST	Blow	Inside /
		21:05-GMT	Position: 288° / 1922 m Dir: West; Behavior: Slow travel • Fluke	Through

Mar 03 Total 10 Calves 0
Day 24 of 105

Er Gray whale (northbound)

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
	01	Good - 1	ErTotal 2 — 0 Calves at sighting	
		9:00:00 PST	Body	
		17:00-GMT	Position: 134° / 661 m Dir: West; Behavior: Slow travel	
		9:01:00 PST	Blow	
		17:01-GMT	Position: 142° / 574 m Dir: West; Behavior: Slow travel	
		9:04:00 PST	Body	
		17:04-GMT	Position: 182° / 508 m Dir: West; Behavior: Slow travel	
		9:05:00 PST	Blow	
		17:05-GMT	Position: 196° / 440 m Dir: West; Behavior: Slow travel	
		9:07:00 PST	Blow	
		17:07-GMT	Position: 219° / 528 m Dir: West; Behavior: Slow travel	
		9:10:00 PST	Blow	
		17:10-GMT	Position: 248° / 696 m Dir: West; Behavior: Slow travel	
		9:13:00 PST	Blow	
		17:13-GMT	Position: 262° / 946 m Dir: West; Behavior: Slow travel	
		9:17:00 PST	Blow	Inside /
		17:17-GMT	Position: 277° / 1331 m Dir: West; Behavior: Slow travel	Through
	03	Good - 1	ErTotal 2 — 0 Calves at sighting	
		9:21:00 PST	Blow	
		17:21-GMT	Position: 114° / 2260 m Dir: West; Behavior: Slow travel	
		9:28:00 PST	Blow	
		17:28-GMT	Position: 121° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		9:36:00 PST	Blow	
		17:36-GMT	Position: 131° / 1483 m Dir: West; Behavior: Slow travel	
		9:38:00 PST	Blow	
		17:38-GMT	Position: 138° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		9:41:00 PST	Blow	
		17:41-GMT	Position: 151° / 1331 m Dir: West; Behavior: Slow travel	
		9:42:00 PST	Blow	
		17:42-GMT	Position: 156° / 1331 m Dir: West; Behavior: Slow travel	
		9:46:00 PST	Blow	
		17:46-GMT	Position: 175° / 1020 m Dir: West; Behavior: Slow travel	
		9:53:00 PST	Blow	
		17:53-GMT	Position: 215° / 696 m Dir: West; Behavior: Slow travel	
		9:57:00 PST	Blow	
		17:57-GMT	Position: 231° / 883 m Dir: West; Behavior: Slow travel	
		10:00:00 PST	Blow	
		18:00-GMT	Position: 246° / 1208 m Dir: West; Behavior: Slow travel	
		10:04:00 PST	Blow	
		18:04-GMT	Position: 261° / 1483 m Dir: West; Behavior: Slow travel	
		10:09:00 PST	Blow	Inside /
		18:09-GMT	Position: 271° / 946 m Dir: West; Behavior: Slow travel	Through

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
	08	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting Disappeared	
		10:38:00 PST	Body	Inside / ND
		18:38-GMT	Position: 282° / 946 m Dir: West; Behavior: Slow travel • Fluke	
	15	Poor - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		12:34:00 PST	Blow	
		20:34-GMT	Position: 117° / 2749 m Dir: West; Behavior: Slow travel	
		12:39:00 PST	Blow	
		20:39-GMT	Position: 121° / 1674 m Dir: West; Behavior: Slow travel	
		12:45:00 PST	Blow	
		20:45-GMT	Position: 138° / 1208 m Dir: West; Behavior: Slow travel	
		12:51:00 PST	Blow	
		20:51-GMT	Position: 179° / 661 m Dir: West; Behavior: Slow travel	
		12:57:00 PST	Blow	
		20:57-GMT	Position: 234° / 735 m Dir: West; Behavior: Slow travel	
		13:03:00 PST	Blow	Inside /
		21:03-GMT	Position: 262° / 1483 m Dir: West; Behavior: Slow travel	Outside
	17	Poor - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:50:00 PST	Blow	
		20:50-GMT	Position: 169° / 1106 m Dir: West; Behavior: Slow travel	
		12:55:00 PST	Blow	
		20:55-GMT	Position: 192° / 1331 m Dir: West; Behavior: Slow travel	
		13:12:00 PST	Blow	Inside /
		21:12-GMT	Position: 237° / 1922 m Dir: West; Behavior: Slow travel	Outside
	18	Good - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:00:00 PST	Blow	
		21:00-GMT	Position: 221° / 3528 m Dir: West; Behavior: Slow travel	
		13:13:00 PST	Blow	
		21:13-GMT	Position: 225° / 3528 m Dir: West; Behavior: Slow travel	
		13:18:00 PST	Blow	Outside /
		21:18-GMT	Position: 237° / 3528 m Dir: West; Behavior: Slow travel	Outside
	20	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:35:00 PST	Blow	
		22:35-GMT	Position: 133° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		14:41:00 PST	Blow	
		22:41-GMT	Position: 135° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		14:49:00 PST	Blow	
		22:49-GMT	Position: 140° / 2260 m Dir: West; Behavior: Slow travel	
		14:57:00 PST	Blow	
		22:57-GMT	Position: 151° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
		15:05:00 PST	Blow	
		23:05-GMT	Position: 177° / 883 m Dir: West; Behavior: Slow travel	
		15:18:00 PST	Body	
		23:18-GMT	Position: 223° / 735 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		15:21:00 PST	Blow	
		23:21-GMT	Position: 238° / 1020 m Dir: West; Behavior: Slow travel • Fluke	
		15:26:00 PST	Blow	Inside /
		23:26-GMT	Position: 257° / 1674 m Dir: West; Behavior: Slow travel	Outside
Mar 04	Total 7 Calves 0	Er Gray whale (northbound)		
	01	Fair - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		8:55:00 PST	Blow	
		16:55-GMT	Position: 186° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
		9:03:00 PST	Blow	
		17:03-GMT	Position: 230° / 946 m Dir: West; Behavior: Slow travel	
		9:08:00 PST	Blow	Inside /
		17:08-GMT	Position: 252° / 1331 m Dir: West; Behavior: Slow travel	Outside
	06	Fair - 4	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:55:00 PST	Blow	
		17:55-GMT	Position: 112° / 3528 m Dir: West; Behavior: Slow travel	
		10:01:00 PST	Blow	
		18:01-GMT	Position: 113° / 3528 m Dir: West; Behavior: Slow travel	
		10:17:00 PST	Blow	
		18:17-GMT	Position: 112° / 3528 m Dir: West; Behavior: Slow travel	
		10:22:00 PST	Blow	
		18:22-GMT	Position: 111° / 3088 m Dir: West; Behavior: Slow travel	
		10:33:00 PST	Blow	
		18:33-GMT	Position: 116° / 2749 m Dir: West; Behavior: Slow travel	
		10:41:00 PST	Blow	
		18:41-GMT	Position: 120° / 1922 m Dir: West; Behavior: Slow travel	
		10:48:00 PST	Blow	
		18:48-GMT	Position: 131° / 1674 m Dir: West; Behavior: Slow travel	
		10:57:00 PST	Blow	
		18:57-GMT	Position: 152° / 946 m Dir: West; Behavior: Slow travel	
		11:07:00 PST	Blow	
		19:07-GMT	Position: 211° / 883 m Dir: West; Behavior: Slow travel	
		11:10:00 PST	Blow	
		19:10-GMT	Position: 227° / 913 m Dir: West; Behavior: Slow travel	
		11:18:00 PST	Blow	Inside /
		19:18-GMT	Position: 253° / 1483 m Dir: West; Behavior: Slow travel	Outside
	07	Fair - 4	<i>Er</i> Total 3 — 0 Calves at sighting	
		10:15:00 PST	Blow	
		18:15-GMT	Position: 150° / 3088 m Dir: West; Behavior: Slow travel	
		<i>sighted by passerby</i>		
		10:19:00 PST	Blow	
		18:19-GMT	Position: 156° / 3088 m Dir: West; Behavior: Slow travel	
		10:26:00 PST	Blow	
		18:26-GMT	Position: 169° / 1922 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:34:00 PST	Blow	
		18:34-GMT	Position: 188° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		10:44:00 PST	Blow	
		18:44-GMT	Position: 208° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		10:57:00 PST	Blow	Inside / ND
		18:57-GMT	Position: 236° / 2260 m Dir: West; Behavior: Slow travel	
<hr/>				
Mar 05	Total 3 Calves 0	Er Gray whale (northbound)		
Day 26 of 105				
	01	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		8:58:00 PST	Blow	
		16:58-GMT	Position: 133° / 1483 m Dir: West; Behavior: Slow travel	
		9:05:00 PST	Blow	
		17:05-GMT	Position: 166° / 946 m Dir: West; Behavior: Slow travel	
		9:09:00 PST	Blow	Inside / ND
		17:09-GMT	Position: 189° / 778 m Dir: West; Behavior: Slow travel	
			<i>interaction with barge</i>	
	09	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:52:00 PST	Blow	
		17:52-GMT	Position: 99° / 5027 m Dir: West; Behavior: Slow travel	
			<i>Condor Express following whale -- both way-far away</i>	
		9:55:00 PST	Blow	
		17:55-GMT	Position: 99° / 5027 m Dir: West; Behavior: Slow travel	
		10:44:00 PST	Blow	
		18:44-GMT	Position: 131° / 1331 m Dir: West; Behavior: Slow travel	
		10:49:00 PST	Blow	
		18:49-GMT	Position: 150° / 1106 m Dir: West; Behavior: Slow travel	
		10:50:00 PST	Body	
		18:50-GMT	Position: 157° / 1106 m Dir: West; Behavior: Slow travel	
		10:57:00 PST	Blow	Inside / ND
		18:57-GMT	Position: 199° / 778 m Dir: West; Behavior: Slow travel • Fluke	
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Mar 06	Total 5 Calves 0	Er Gray whale (northbound)		
Day 27 of 105				
	08	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:08:00 PST	Blow	
		18:08-GMT	Position: 166° / 528 m Dir: West; Behavior: Slow travel	
		10:17:00 PST	Blow	
		18:17-GMT	Position: 213° / 489 m Dir: West; Behavior: Slow travel	
		10:21:00 PST	Blow	
		18:21-GMT	Position: 247° / 778 m Dir: West; Behavior: Slow travel	
		10:24:00 PST	Blow	
		18:24-GMT	Position: 258° / 946 m Dir: West; Behavior: Slow travel	
		10:26:00 PST	Blow	Inside /
		18:26-GMT	Position: 263° / 1483 m Dir: West; Behavior: Slow travel	Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
	09	Fair - 4	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:30:00 PST	Blow	
		18:30-GMT	Position: 120° / 1922 m Dir: West; Behavior: Slow travel	
		10:36:00 PST	Blow	
		18:36-GMT	Position: 131° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
		10:44:00 PST	Blow	
		18:44-GMT	Position: 173° / 600 m Dir: West; Behavior: Slow travel	
		10:53:00 PST	Blow	
		18:53-GMT	Position: 230° / 600 m Dir: West; Behavior: Slow travel	
		11:01:00 PST	Blow	Inside /
		19:01-GMT	Position: 256° / 1331 m Dir: West; Behavior: Slow travel	Outside
	10	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:12:00 PST	Body	
		20:12-GMT	Position: 214° / 550 m Dir: West; Behavior: Slow travel	
		12:20:00 PST	Blow	Inside / ND
		20:20-GMT	Position: 240° / 696 m Dir: West; Behavior: Slow travel	
	14	Poor - 4	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:29:00 PST	Blow	
		22:29-GMT	Position: 173° / 400 m Dir: West; Behavior: Slow travel	
		14:30:00 PST	Blow	
		22:30-GMT	Position: 192° / 440 m Dir: West; Behavior: Slow travel	
		14:35:00 PST	Blow	
		22:35-GMT	Position: 253° / 883 m Dir: West; Behavior: Slow travel	
		14:37:00 PST	Blow	Inside /
		22:37-GMT	Position: 261° / 946 m Dir: West; Behavior: Slow travel	Outside

Mar 08 Total 3 Calves 0
Day 29 of 105

Er Gray whale (northbound)

	05	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:49:00 PST	Blow	
		18:49-GMT	Position: 122° / 388 m Dir: West; Behavior: Slow travel	
			<i>appeared in kelp to our left</i>	
		10:52:00 PST	Blow	
		18:52-GMT	Position: 167° / 300 m Dir: West; Behavior: Slow travel	
		10:55:00 PST	Blow	
		18:55-GMT	Position: 221° / 400 m Dir: West; Behavior: Slow travel	
		10:57:00 PST	Blow	
		18:57-GMT	Position: 254° / 412 m Dir: West; Behavior: Slow travel	
		10:59:00 PST	Blow	Inside / Inside
		18:59-GMT	Position: 271° / 455 m Dir: West; Behavior: Slow travel	
			<i>continued along Sands toward Ellwood</i>	
	07	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		12:07:00 PST	Blow	
		20:07-GMT	Position: 112° / 3088 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:22:00 PST	Blow	
		20:22-GMT	Position: 123° / 1922 m Dir: West; Behavior: Slow travel	
		12:28:00 PST	Blow	
		20:28-GMT	Position: 135° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
		12:38:00 PST	Blow	
		20:38-GMT	Position: 172° / 629 m Dir: West; Behavior: Slow travel	
		12:45:00 PST	Blow	
		20:45-GMT	Position: 226° / 735 m Dir: West; Behavior: Slow travel	
		12:50:00 PST	Blow	Inside /
		20:50-GMT	Position: 245° / 883 m Dir: West; Behavior: Slow travel	Outside
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Mar 10	Total 2 Calves 0	Er Gray whale (northbound)		
Day 31 of 105				
	01	Poor - 4	Er Total 2 — 0 Calves at sighting	
		8:58:00 PST	Blow	
		16:58-GMT	Position: 176° / 696 m Dir: West; Behavior: Slow travel	
		9:02:00 PST	Blow	
		17:02-GMT	Position: 194° / 827 m Dir: West; Behavior: Slow travel	
		9:08:00 PST	Blow	Inside /
		17:08-GMT	Position: 239° / 1020 m Dir: West; Behavior: Slow travel	Outside
<hr/>				
Mar 11	Total 19 Calves 0	Er Gray whale (northbound)		
Day 32 of 105				
	01	Good - 1	Er Total 1 — 0 Calves at sighting	
		9:03:00 PST	Blow	
		17:03-GMT	Position: 135° / 3528 m Dir: West; Behavior: Slow travel	
		9:13:00 PST	Blow	
		17:13-GMT	Position: 136° / 3528 m Dir: West; Behavior: Slow travel	
		9:20:00 PST	Blow	
		17:20-GMT	Position: 138° / 3528 m Dir: West; Behavior: Slow travel	
		9:24:00 PST	Blow	
		17:24-GMT	Position: 139° / 3528 m Dir: West; Behavior: Slow travel	
		9:45:00 PST	Blow	
		17:45-GMT	Position: 147° / 3528 m Dir: West; Behavior: Slow travel	
		9:54:00 PST	Blow	
		17:54-GMT	Position: 153° / 3088 m Dir: West; Behavior: Slow travel	
		10:03:00 PST	Blow	
		18:03-GMT	Position: 160° / 3088 m Dir: West; Behavior: Slow travel <i>with Dsp (SD#)</i>	
		10:09:00 PST	Blow	
		18:09-GMT	Position: 165° / 3088 m Dir: West; Behavior: Slow travel	
		10:14:00 PST	Blow	
		18:14-GMT	Position: 170° / 3088 m Dir: West; Behavior: Slow travel	
		10:22:00 PST	Blow	
		18:22-GMT	Position: 181° / 3088 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:33:00 PST	Blow	ND / ND
		18:33-GMT	Position: 195° / 3088 m Dir: West; Behavior: Slow travel	
	05	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:19:00 PST	Blow	
		18:19-GMT	Position: 151° / 2749 m Dir: West; Behavior: Slow travel	
		10:43:00 PST	Blow	ND / ND
		18:43-GMT	Position: 163° / 3528 m Dir: West; Behavior: Slow travel	
	09	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:49:00 PST	ni	
		18:49-GMT	Position: 158° / 550 m Dir: West; Behavior: Slow travel	
			<i>small whale</i>	
		10:54:00 PST	Body	Inside / ND
		18:54-GMT	Position: 220° / 322 m Dir: West; Behavior: Slow travel	
	15	Good - 3	<i>Er</i> Total 4 — 0 Calves at sighting	
		13:27:00 PST	Blow	
		21:27-GMT	Position: 137° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
		13:35:00 PST	Blow	
		21:35-GMT	Position: 138° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
		13:43:00 PST	Blow	
		21:43-GMT	Position: 141° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		13:47:00 PST	Blow	
		21:47-GMT	Position: 141° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		14:05:00 PST	Blow	
		22:05-GMT	Position: 151° / 3088 m Dir: West; Behavior: Slow travel	
		14:07:00 PST	Blow	
		22:07-GMT	Position: 150° / 3088 m Dir: West; Behavior: Slow travel	
		14:19:00 PST	Blow	
		22:19-GMT	Position: 162° / 2749 m Dir: West; Behavior: Slow travel • Milling	
			<i>whales seem to have joined whales from S#16</i>	
		14:37:00 PST	Blow	
		22:37-GMT	Position: 172° / 3088 m Dir: West; Behavior: Slow travel	
		14:47:00 PST	Blow	
		22:47-GMT	Position: 189° / 3088 m Dir: West; Behavior: Slow travel	
			<i>now separated from whales of S#16</i>	
		14:55:00 PST	Blow	
		22:55-GMT	Position: 199° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		15:04:00 PST	Blow	
		23:04-GMT	Position: 210° / 3088 m Dir: West; Behavior: Slow travel	
			<i>seem now to be only a pair - other 2 may have re-joined S#16</i>	
		15:10:00 PST	Blow	
		23:10-GMT	Position: 214° / 2749 m Dir: West; Behavior: Slow travel	
		15:14:00 PST	Blow	
		23:14-GMT	Position: 218° / 2749 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		15:18:00 PST 23:18-GMT	Blow Position: 220° / 2749 m Dir: West; Behavior: Slow travel	Outside / Outside
16	Good - 3	<i>Er</i> Total 3 — 0 Calves at sighting		
		13:53:00 PST 21:53-GMT	Blow Position: 137° / 5027 m Dir: West; Behavior: Slow travel	
		14:08:00 PST 22:08-GMT	Blow Position: 143° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		14:28:00 PST 22:28-GMT	Blow Position: 154° / 3088 m Dir: West; Behavior: Slow travel	
		14:34:00 PST 22:34-GMT	Blow Position: 166° / 3088 m Dir: West; Behavior: Slow travel	
		14:38:00 PST 22:38-GMT	Blow Position: 168° / 3088 m Dir: West; Behavior: Slow travel	
		14:46:00 PST 22:46-GMT	Blow Position: 172° / 3088 m Dir: West; Behavior: Slow travel	
		14:48:00 PST 22:48-GMT	Blow Position: 174° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		14:53:00 PST 22:53-GMT	Blow Position: 177° / 3088 m Dir: West; Behavior: Slow travel	
		15:03:00 PST 23:03-GMT	Blow Position: 194° / 2749 m Dir: West; Behavior: Slow travel <i>now a group of 5 or 6</i>	
		15:08:00 PST 23:08-GMT	Blow Position: 201° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		15:11:00 PST 23:11-GMT	Blow Position: 206° / 2749 m Dir: West; Behavior: Slow travel	
		15:16:00 PST 23:16-GMT	Blow Position: 209° / 2749 m Dir: West; Behavior: Slow travel	Outside / Outside
26	Good - 3	<i>Er</i> Total 4 — 0 Calves at sighting		
		15:33:00 PST 23:33-GMT	Blow Position: 205° / 2749 m Dir: West; Behavior: Slow travel	
		15:35:00 PST 23:35-GMT	Blow Position: 208° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		15:39:00 PST 23:39-GMT	Blow Position: 209° / 3528 m Dir: West; Behavior: Slow travel	
		15:45:00 PST 23:45-GMT	Blow Position: 214° / 3528 m Dir: West; Behavior: Slow travel	
		15:53:00 PST 23:53-GMT	Blow Position: 219° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		16:03:00 PST 0:03	Blow Position: 224° / 3528 m Dir: West; Behavior: Slow travel	Outside / Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau	Time		Blow/Body	Holly/Buoys
	27	Good - 3			<i>Er</i> Total 1 — 0 Calves at sighting	
			15:50:00 PST		Blow	
			23:50-GMT		Position: 181° / 629 m Dir: West; Behavior: Slow travel	
			15:53:00 PST		Blow	
			23:53-GMT		Position: 199° / 629 m Dir: West; Behavior: Slow travel • Fluke	
			16:13:00 PST		Blow	
			0:13		Position: 265° / 1483 m Dir: West; Behavior: Slow travel	
			16:14:00 PST		Blow	Inside /
			0:14		Position: 269° / 1674 m Dir: West; Behavior: Slow travel • Fluke	Outside
	29	Good - 3			<i>Er</i> Total 1 — 0 Calves at sighting	
			16:01:00 PST		Body	
			0:01		Position: 148° / 778 m Dir: West; Behavior: Slow travel	
			16:09:00 PST		Body	
			0:09		Position: 176° / 600 m Dir: West; Behavior: Slow travel	
			16:15:00 PST		Blow	
			0:15		Position: 215° / 629 m Dir: West; Behavior: Slow travel	
			16:23:00 PST		Blow	Inside /
			0:23		Position: 279° / 3088 m Dir: West; Behavior: Slow travel	Outside
	31	Good - 3			<i>Er</i> Total 2 — 0 Calves at sighting	
			16:21:00 PST		Blow	
			0:21		Position: 209° / 3528 m Dir: West; Behavior: Slow travel	
			16:27:00 PST		Blow	
			0:27		Position: 216° / 3528 m Dir: West; Behavior: Slow travel	
			16:34:00 PST		Blow	
			0:34		Position: 224° / 3528 m Dir: West; Behavior: Slow travel	
			16:43:00 PST		Blow	Outside /
			0:43		Position: 233° / 3528 m Dir: West; Behavior: Slow travel	Outside
	35	Good - 3			<i>Er</i> Total 1 — 0 Calves at sighting	
			16:56:00 PST		Blow	
			0:56		Position: 107° / 2260 m Dir: West; Behavior: Slow travel	
			16:58:00 PST		Blow	
			0:58		Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
			17:03:00 PST		Blow	
			1:03		Position: 114° / 2260 m Dir: West; Behavior: Slow travel	
			17:05:00 PST		Blow	
			1:05		Position: 114° / 1483 m Dir: West; Behavior: Slow travel	
			17:08:00 PST		Blow	
			1:08		Position: 115° / 1208 m Dir: West; Behavior: Slow travel	
			17:12:00 PST		Blow	ND / ND
			1:12		Position: 118° / 946 m Dir: West; Behavior: Slow travel	

Mar 12 Total 16 Calves 0
Day 33 of 105

Er Gray whale (northbound)

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	05	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:33:00 PST	Blow	
		17:33-GMT	Position: 136° / 946 m Dir: West; Behavior: Slow travel	
		9:39:00 PST	Blow	ND / ND
		17:39-GMT	Position: 160° / 946 m Dir: West; Behavior: Slow travel	
		<i>not sighted after 0939</i>		
	08	Fair - 1	<i>Er</i> Total 4 — 0 Calves at sighting	
		9:59:00 PST	Blow	
		17:59-GMT	Position: 154° / 3528 m Dir: West; Behavior: Slow travel	
		10:04:00 PST	Blow	
		18:04-GMT	Position: 159° / 3528 m Dir: West; Behavior: Slow travel	
		<i>Condor Express following group. Condor not entered. General criteria for entering vessels is within .25 reticles.</i>		
		10:08:00 PST	Blow	
		18:08-GMT	Position: 160° / 3528 m Dir: West; Behavior: Slow travel • Rolling	
		10:12:00 PST	Blow	
		18:12-GMT	Position: 166° / 3528 m Dir: West; Behavior: Slow travel	
		10:14:00 PST	Blow	
		18:14-GMT	Position: 167° / 3528 m Dir: West; Behavior: Slow travel	
		11:12:00 PST	Blow	ND / ND
		19:12-GMT	Position: 209° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		<i>NOTE: made after Count 2010 Aug 16 - This, more likely, is a tracking position for group S#9.</i>		
	09	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
		10:08:00 PST	Blow	
		18:08-GMT	Position: 153° / 3528 m Dir: West; Behavior: Slow travel	
		<i>Saw blow near Condor Express as boat was trailing S#8 group that was further west.</i>		
		10:35:00 PST	Blow	
		18:35-GMT	Position: 160° / 3528 m Dir: West; Behavior: Slow travel	
		10:46:00 PST	Body	
		18:46-GMT	Position: 166° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		10:57:00 PST	ni	ND / ND
		18:57-GMT	Position: 172° / 3528 m Dir: West; Behavior: Slow travel	
		<i>likely passed Outside of Platform Holly</i>		
	11	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:25:00 PST	Blow	ND / ND
		18:25-GMT	Position: 202° / 3528 m Dir: West; Behavior: Slow travel	
		<i>Likely passed Outside of Platform Holly.</i>		
		<i>NOTE made after Count 2010 Aug 16: Perhaps this was one of group S#8 ???</i>		
	12	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		11:06:00 PST	Blow	Inside / ND
		19:06-GMT	Position: 208° / 778 m Dir: West; Behavior: Slow travel	
		<i>only sighting of these whales heading west</i>		

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
	17	Good - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:43:00 PST	Blow	
		20:43-GMT	Position: 138° / 5027 m Dir: West; Behavior: Slow travel <i>near Condor Express</i>	
		12:57:00 PST	Blow	
		20:57-GMT	Position: 151° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		13:11:00 PST	Blow	
		21:11-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel <i>interaction with V#10</i>	
		13:32:00 PST	Blow	
		21:32-GMT	Position: 155° / 2749 m Dir: West; Behavior: Slow travel	
		13:48:00 PST	Blow	
		21:48-GMT	Position: 181° / 1208 m Dir: West; Behavior: Slow travel	
		13:49:00 PST	Blow	
		21:49-GMT	Position: 185° / 1106 m Dir: West; Behavior: Slow travel	
		13:57:00 PST	Blow	
		21:57-GMT	Position: 208° / 1208 m Dir: West; Behavior: Slow travel	
		14:08:00 PST	Blow	
		22:08-GMT	Position: 241° / 946 m Dir: West; Behavior: Slow travel	
		14:22:00 PST	Blow	Inside /
		22:22-GMT	Position: 271° / 1674 m Dir: West; Behavior: Slow travel	Outside
	18	Good - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:19:00 PST	Blow	
		21:19-GMT	Position: 151° / 1331 m Dir: West; Behavior: Slow travel	
		13:21:00 PST	Blow	
		21:21-GMT	Position: 167° / 1331 m Dir: West; Behavior: Slow travel	
		13:26:00 PST	Blow	
		21:26-GMT	Position: 186° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		13:29:00 PST	Blow	
		21:29-GMT	Position: 204° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		13:38:00 PST	Blow	Inside /
		21:38-GMT	Position: 232° / 1674 m Dir: West; Behavior: Slow travel	Outside
	21	Good - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:38:00 PST	Blow	
		22:38-GMT	Position: 141° / 1674 m Dir: West; Behavior: Slow travel	
		14:41:00 PST	Blow	
		22:41-GMT	Position: 146° / 1483 m Dir: West; Behavior: Slow travel	
		14:48:00 PST	Blow	
		22:48-GMT	Position: 176° / 1020 m Dir: West; Behavior: Slow travel	
		14:59:00 PST	Blow	Inside /
		22:59-GMT	Position: 231° / 1483 m Dir: West; Behavior: Slow travel	Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	30	Good - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:25:00 PST 0:25	Blow Position: 112° / 3528 m Dir: West; Behavior: Slow travel	
		16:38:00 PST 0:38	Blow Position: 120° / 2749 m Dir: West; Behavior: Slow travel	
		16:44:00 PST 0:44	Blow Position: 127° / 2260 m Dir: West; Behavior: Slow travel	
		16:48:00 PST 0:48	Blow Position: 133° / 1922 m Dir: West; Behavior: Slow travel	
		16:59:00 PST 0:59	Blow Position: 163° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
		17:07:00 PST 1:07	Blow Position: 206° / 778 m Dir: West; Behavior: Slow travel • Fluke	Inside / ND
Mar 13 Day 34 of 105	Total 7 Calves 0	Er Gray whale (northbound)		
	02	Poor - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:25:00 PST 17:25-GMT	Blow Position: 161° / 3088 m Dir: West; Behavior: Slow travel	
		9:27:00 PST 17:27-GMT	Blow Position: 169° / 3088 m Dir: West; Behavior: Slow travel	
		9:30:00 PST 17:30-GMT	Blow Position: 178° / 1922 m Dir: West; Behavior: Slow travel	
		9:38:00 PST 17:38-GMT	Blow Position: 196° / 2260 m Dir: West; Behavior: Slow travel	
		9:42:00 PST 17:42-GMT	Blow Position: 211° / 2749 m Dir: West; Behavior: Slow travel	
		9:52:00 PST 17:52-GMT	Blow Position: 229° / 2749 m Dir: West; Behavior: Slow travel	Inside / Outside
	04	Poor - 4	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:22:00 PST 20:22-GMT	Blow Position: 150° / 2260 m Dir: West; Behavior: Slow travel	
		12:26:00 PST 20:26-GMT	Blow Position: 158° / 1331 m Dir: West; Behavior: Slow travel	
		12:27:00 PST 20:27-GMT	Blow Position: 162° / 1331 m Dir: West; Behavior: Slow travel	
		12:32:00 PST 20:32-GMT	Blow Position: 182° / 1403 m Dir: West; Behavior: Slow travel	
		12:33:00 PST 20:33-GMT	Blow Position: 191° / 1331 m Dir: West; Behavior: Slow travel <i>seemed like two animals, but could not prove it</i>	ND / ND
	14	Fair - 4	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:25:00 PST 0:25	Blow Position: 185° / 1331 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		16:35:00 PST 0:35	Blow Position: 230° / 1483 m Dir: West; Behavior: Slow travel	
		16:38:00 PST 0:38	Blow Position: 235° / 1922 m Dir: West; Behavior: Slow travel	Inside / Outside
	15	Fair - 4	<i>Er</i> Total 3 — 0 Calves at sighting	
		16:55:00 PST 0:55	Blow Position: 172° / 2749 m Dir: West; Behavior: Slow travel	
		16:59:00 PST 0:59	Blow Position: 180° / 2749 m Dir: West; Behavior: Slow travel • Fluke	ND / ND
Mar 14 Day 35 of 105	Total 18 Calves 0	Er Gray whale (northbound)		
	13	Good - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
		12:44:00 PDT 19:44-GMT	Blow Position: 124° / 1922 m Dir: West; Behavior: Slow travel	
		12:54:00 PDT 19:54-GMT	Blow Position: 134° / 1106 m Dir: West; Behavior: Slow travel	
		13:02:00 PDT 20:02-GMT	Blow Position: 177° / 447 m Dir: West; Behavior: Slow travel	
		13:03:00 PDT 20:03-GMT	Blow Position: 186° / 3088 m Dir: West; Behavior: Slow travel	
		13:07:00 PDT 20:07-GMT	Blow Position: 223° / 600 m Dir: West; Behavior: Slow travel	
		13:08:00 PDT 20:08-GMT	Blow Position: 131° / 600 m Dir: West; Behavior: Slow travel	
		13:11:00 PDT 20:11-GMT	Blow Position: 251° / 778 m Dir: West; Behavior: Slow travel	Inside / Outside
	16	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:45:00 PDT 20:45-GMT	Blow Position: 191° / 1922 m Dir: West; Behavior: Slow travel	
		13:53:00 PDT 20:53-GMT	Blow Position: 215° / 1674 m Dir: West; Behavior: Slow travel	
		13:57:00 PDT 20:57-GMT	Blow Position: 229° / 1922 m Dir: West; Behavior: Slow travel	
		14:02:00 PDT 21:02-GMT	Blow Position: 240° / 3088 m Dir: West; Behavior: Slow travel	Outside / Outside
	18	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:58:00 PDT 20:58-GMT	Blow Position: 209° / 1674 m Dir: West; Behavior: Slow travel	
		13:59:00 PDT 20:59-GMT	Blow Position: 214° / 1403 m Dir: West; Behavior: Slow travel	
		14:07:00 PDT 21:07-GMT	Blow Position: 245° / 1674 m Dir: West; Behavior: Slow travel	Inside / ND

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	20	Good - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:27:00 PDT	Blow	
		21:27-GMT	Position: 181° / 2260 m Dir: West; Behavior: Slow travel	
		14:33:00 PDT	Blow	
		21:33-GMT	Position: 202° / 1922 m Dir: West; Behavior: Slow travel	
		14:38:00 PDT	Blow	Inside /
		21:38-GMT	Position: 221° / 2260 m Dir: West; Behavior: Slow travel	Outside
	23	Good - 3	<i>Er</i> Total 6 — 0 Calves at sighting	
		15:24:00 PDT	Blow	
		22:24-GMT	Position: 183° / 3528 m Dir: West; Behavior: Slow travel	
		15:39:00 PDT	Blow	
		22:39-GMT	Position: 194° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		15:49:00 PDT	Blow	
		22:49-GMT	Position: 201° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		15:57:00 PDT	Blow	
		22:57-GMT	Position: 208° / 3528 m Dir: West; Behavior: Slow travel	
		16:02:00 PDT	Blow	
		23:02-GMT	Position: 212° / 5027 m Dir: West; Behavior: Slow travel	
		16:10:00 PDT	Blow	
		23:10-GMT	Position: 220° / 5027 m Dir: West; Behavior: Slow travel	
		16:21:00 PDT	Blow	Outside /
		23:21-GMT	Position: 230° / 5027 m Dir: West; Behavior: Slow travel	Outside
	24	Good - 3	<i>Er</i> Total 3 — 0 Calves at sighting	
		15:51:00 PDT	Blow	
		22:51-GMT	Position: 147° / 2260 m Dir: West; Behavior: Slow travel	
		15:58:00 PDT	Blow	
		22:58-GMT	Position: 162° / 2260 m Dir: West; Behavior: Slow travel	
		16:06:00 PDT	Blow	
		23:06-GMT	Position: 184° / 1922 m Dir: West; Behavior: Slow travel	
		16:07:00 PDT	Blow	
		23:07-GMT	Position: 188° / 1922 m Dir: West; Behavior: Slow travel	
		16:14:00 PDT	Blow	
		23:14-GMT	Position: 210° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		16:16:00 PDT	Blow	
		23:16-GMT	Position: 214° / 1922 m Dir: West; Behavior: Slow travel	
		16:20:00 PDT	Blow	Inside /
		23:20-GMT	Position: 227° / 1403 m Dir: West; Behavior: Slow travel	Outside

Mar 15 Total 20 Calves 0
Day 36 of 105

Er Gray whale (northbound)

	03	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:15:00 PDT	Blow	
		16:15-GMT	Position: 123° / 3088 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		9:19:00 PDT	Blow	
		16:19-GMT	Position: 127° / 3088 m Dir: West; Behavior: Slow travel	
		9:27:00 PDT	Blow	ND / ND
		16:27-GMT	Position: 138° / 3088 m Dir: West; Behavior: Slow travel	
	04	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:19:00 PDT	Blow	
		16:19-GMT	Position: 114° / 2260 m Dir: West; Behavior: Slow travel	
		9:28:00 PDT	Blow	
		16:28-GMT	Position: 130° / 1922 m Dir: West; Behavior: Slow travel	
		9:33:00 PDT	Blow	
		16:33-GMT	Position: 143° / 1483 m Dir: West; Behavior: Slow travel	
		9:40:00 PDT	Blow	
		16:40-GMT	Position: 170° / 1483 m Dir: West; Behavior: Slow travel	
		9:48:00 PDT	Blow	Inside / ND
		16:48-GMT	Position: 208° / 1483 m Dir: West; Behavior: Slow travel	
	09	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:19:00 PDT	Blow	
		17:19-GMT	Position: 117° / 3528 m Dir: West; Behavior: Slow travel	
		10:29:00 PDT	Blow	
		17:29-GMT	Position: 120° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		10:41:00 PDT	Blow	
		17:41-GMT	Position: 122° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		10:53:00 PDT	Blow	
		17:53-GMT	Position: 133° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		11:03:00 PDT	Blow	
		18:03-GMT	Position: 153° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		11:11:00 PDT	Blow	
		18:11-GMT	Position: 189° / 1208 m Dir: West; Behavior: Slow travel	
		11:14:00 PDT	Blow	Inside / ND
		18:14-GMT	Position: 207° / 1208 m Dir: West; Behavior: Slow travel • Fluke	
	11	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:58:00 PDT	Blow	
		17:58-GMT	Position: 122° / 5027 m Dir: West; Behavior: Slow travel	
		11:18:00 PDT	Blow	
		18:18-GMT	Position: 123° / 3528 m Dir: West; Behavior: Slow travel	
		11:21:00 PDT	Blow	
		18:21-GMT	Position: 126° / 3528 m Dir: West; Behavior: Slow travel	
		11:50:00 PDT	Blow	
		18:50-GMT	Position: 137° / 2749 m Dir: West; Behavior: Slow travel	
		11:56:00 PDT	Blow	
		18:56-GMT	Position: 140° / 2749 m Dir: West; Behavior: Slow travel	
		12:06:00 PDT	Blow	
		19:06-GMT	Position: 157° / 1922 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:10:00 PDT	Blow	
		19:10-GMT	Position: 166° / 1922 m Dir: West; Behavior: Slow travel	
		12:15:00 PDT	Blow	
		19:15-GMT	Position: 175° / 1922 m Dir: West; Behavior: Slow travel	
		12:17:00 PDT	Blow	ND / ND
		19:17-GMT	Position: 184° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14	Fair - 0	<i>Er</i> Total 5 — 0 Calves at sighting	
		11:24:00 PDT	Blow	
		18:24-GMT	Position: 170° / 5027 m Dir: West; Behavior: Slow travel • Fluke <i>pretty far out - definitely gray whales</i>	
		11:55:00 PDT	Blow	
		18:55-GMT	Position: 181° / 5027 m Dir: West; Behavior: Slow travel	
		12:00:00 PDT	Blow	
		19:00-GMT	Position: 183° / 5027 m Dir: West; Behavior: Slow travel	
		12:18:00 PDT	Blow	ND / ND
		19:18-GMT	Position: 184° / 5027 m Dir: West; Behavior: Slow travel	
	19	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:35:00 PDT	Blow	
		19:35-GMT	Position: 146° / 528 m Dir: West; Behavior: Slow travel	
		12:39:00 PDT	Blow	
		19:39-GMT	Position: 177° / 388 m Dir: West; Behavior: Slow travel	
		12:41:00 PDT	Body	Inside / ND
		19:41-GMT	Position: 229° / 440 m Dir: West; Behavior: Slow travel	
	22	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:24:00 PDT	Blow	
		21:24-GMT	Position: 175° / 2749 m Dir: West; Behavior: Slow travel	
		14:30:00 PDT	Blow	
		21:30-GMT	Position: 193° / 2260 m Dir: West; Behavior: Slow travel	
		14:38:00 PDT	Body	
		21:38-GMT	Position: 212° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		14:45:00 PDT	Blow	Inside / Outside
		21:45-GMT	Position: 231° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	26	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:48:00 PDT	Blow	
		22:48-GMT	Position: 233° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
		15:57:00 PDT	Blow	Inside / Outside
		22:57-GMT	Position: 256° / 2260 m Dir: West; Behavior: Slow travel	
	30	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:50:00 PDT	Blow	
		23:50-GMT	Position: 237° / 1922 m Dir: West; Behavior: Slow travel • Fluke <i>0</i>	
		17:00:00 PDT	Blow	Inside / Outside
		0:00	Position: 261° / 1922 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	31	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
	16:55:00 PDT	Blow		ND / ND
	23:55-GMT	Position: 212° / 2749 m Dir: West; Behavior: Slow travel • Breach		
Mar 16	Total 20 Calves 0	Er Gray whale (northbound)		
Day 37 of 105				
	02	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
	9:06:00 PDT	Blow		
	16:06-GMT	Position: 130° / 2260 m Dir: West; Behavior: Slow travel • Fluke		
	9:12:00 PDT	Blow		
	16:12-GMT	Position: 134° / 1922 m Dir: West; Behavior: Slow travel • Fluke		
	9:18:00 PDT	Blow		
	16:18-GMT	Position: 142° / 1483 m Dir: West; Behavior: Slow travel		
		<i>dolphins (SD#5) crossed path of Er</i>		
	9:31:00 PDT	Blow		
	16:31-GMT	Position: 190° / 1331 m Dir: West; Behavior: Slow travel		
		<i>long downtime - now, through dolphin path</i>		
	9:34:00 PDT	Blow		
	16:34-GMT	Position: 218° / 1331 m Dir: West; Behavior: Slow travel		
	9:36:00 PDT	Blow		
	16:36-GMT	Position: 224° / 1331 m Dir: West; Behavior: Slow travel • Fluke		
	9:47:00 PDT	Body		Inside /
	16:47-GMT	Position: 264° / 1483 m Dir: West; Behavior: Slow travel • Fluke •		
				Outside
	07	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
	10:00:00 PDT	Blow		
	17:00-GMT	Position: 110° / 3528 m Dir: West; Behavior: Slow travel • Fluke		
		<i>approaching line of dolphins (SD#5)</i>		
	10:20:00 PDT	Blow		
	17:20-GMT	Position: 107° / 3088 m Dir: West; Behavior: Slow travel		
		<i>just past line of dolphins</i>		
	10:36:00 PDT	Blow		
	17:36-GMT	Position: 116° / 1483 m Dir: West; Behavior: Slow travel		
	10:38:00 PDT	Blow		
	17:38-GMT	Position: 115° / 1331 m Dir: West; Behavior: Slow travel		
	10:41:00 PDT	Blow		
	17:41-GMT	Position: 117° / 1106 m Dir: West; Behavior: Slow travel		
	10:45:00 PDT	Blow		
	17:45-GMT	Position: 126° / 778 m Dir: West; Behavior: Slow travel • Fluke		
	10:55:00 PDT	Blow		
	17:55-GMT	Position: 146° / 600 m Dir: West; Behavior: Slow travel		
	11:02:00 PDT	Body		Inside /
	18:02-GMT	Position: 236° / 778 m Dir: West; Behavior: Slow travel		
		<i>maybe second whale? calf? image MHS2917</i>		
				Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
09	Fair - 1	<i>Er</i> Total 4 — 0 Calves at sighting		
	10:34:00 PDT	Blow		
	17:34-GMT	Position: 120° / 3528 m Dir: West; Behavior: Slow travel		
	10:37:00 PDT	Blow		
	17:37-GMT	Position: 122° / 3528 m Dir: West; Behavior: Slow travel		
	11:19:00 PDT	Blow		
	18:19-GMT	Position: 146° / 1922 m Dir: West; Behavior: Slow travel		
	11:21:00 PDT	Blow		
	18:21-GMT	Position: 149° / 1922 m Dir: West; Behavior: Slow travel • Fluke		
	11:31:00 PDT	Blow		
	18:31-GMT	Position: 167° / 1483 m Dir: West; Behavior: Slow travel • Fluke		
	11:40:00 PDT	Blow		
	18:40-GMT	Position: 197° / 1483 m Dir: West; Behavior: Slow travel • Fluke		
	11:51:00 PDT	Blow		Inside /
	18:51-GMT	Position: 228° / 1483 m Dir: West; Behavior: Slow travel • Fluke		Outside
14	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting		
	11:23:00 PDT	Blow		
	18:23-GMT	Position: 155° / 3088 m Dir: West; Behavior: Slow travel		
	11:33:00 PDT	Blow		
	18:33-GMT	Position: 165° / 2749 m Dir: West; Behavior: Slow travel • Fluke		
	11:38:00 PDT	Blow		
	18:38-GMT	Position: 174° / 1922 m Dir: West; Behavior: Slow travel		
	11:39:00 PDT	Blow		
18:39-GMT	Position: 178° / 2260 m Dir: West; Behavior: Slow travel • Fluke			
11:43:00 PDT	Blow			
18:43-GMT	Position: 186° / 2260 m Dir: West; Behavior: Slow travel • Breach			
11:47:00 PDT	Blow		ND / ND	
18:47-GMT	Position: 197° / 1922 m Dir: West; Behavior: Slow travel • Breach •			
18	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting		
	13:00:00 PDT	Blow		
	20:00-GMT	Position: 117° / 2260 m Dir: West; Behavior: Slow travel		
	13:07:00 PDT	Blow		
	20:07-GMT	Position: 120° / 2260 m Dir: West; Behavior: Slow travel		
	13:14:00 PDT	Blow		
	20:14-GMT	Position: 154° / 778 m Dir: West; Behavior: Slow travel		
13:21:00 PDT	Blow			
20:21-GMT	Position: 188° / 1106 m Dir: West; Behavior: Slow travel			
13:27:00 PDT	Blow		Inside /	
20:27-GMT	Position: 224° / 1331 m Dir: West; Behavior: Slow travel		Outside	

UCSB vessel (V#3) using sonar - whales appear to be affected - long downtimes - evasive - Christoph Pierre not monitoring phone - when I finally spoke to him, he said he had not seen a whale all day. At the time of conversation, there had been more than ten Er that passed near the boat.

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys	
	Number	Time			
19	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting			
	13:06:00 PDT	Blow			
	20:06-GMT	Position: 124° / 1208 m	Dir: West; Behavior: Slow travel		
	13:10:00 PDT	Blow			
	20:10-GMT	Position: 128° / 1483 m	Dir: West; Behavior: Slow travel		
	13:27:00 PDT	Blow		Inside /	
	20:27-GMT	Position: 251° / 883 m	Dir: West; Behavior: Slow travel	Outside	
	13:32:00 PDT	Blow			
	20:32-GMT	Position: 190° / 489 m	Dir: West; Behavior: Slow travel		
	21	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting		
		14:02:00 PDT	Blow		
		21:02-GMT	Position: 125° / 1674 m	Dir: West; Behavior: Slow travel	
		14:09:00 PDT	Blow		
		21:09-GMT	Position: 142° / 1208 m	Dir: West; Behavior: Slow travel • Fluke	
		14:24:00 PDT	Blow		
21:24-GMT		Position: 165° / 778 m	Dir: West; Behavior: Slow travel • Fluke		
14:31:00 PDT		Blow			
21:31-GMT		Position: 172° / 778 m	Dir: West; Behavior: Slow travel • Fluke		
14:35:00 PDT		Blow			
21:35-GMT		Position: 178° / 661 m	Dir: West; Behavior: Slow travel • Fluke		
14:43:00 PDT		Blow			
21:43-GMT		Position: 206° / 696 m	Dir: West; Behavior: Slow travel • Fluke		
14:48:00 PDT		Blow		Inside /	
21:48-GMT		Position: 234° / 778 m	Dir: West; Behavior: Slow travel	Outside	
24	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting			
	14:32:00 PDT	Blow			
	21:32-GMT	Position: 168° / 1483 m	Dir: West; Behavior: Slow travel		
	14:34:00 PDT	Body			
	21:34-GMT	Position: 176° / 1483 m	Dir: West; Behavior: Slow travel		
	14:38:00 PDT	Blow			
	21:38-GMT	Position: 185° / 1483 m	Dir: West; Behavior: Slow travel		
	14:39:00 PDT	Blow			
	21:39-GMT	Position: 193° / 1483 m	Dir: West; Behavior: Slow travel		
	14:45:00 PDT	Blow			
	21:45-GMT	Position: 213° / 1922 m	Dir: West; Behavior: Slow travel		
	14:52:00 PDT	Blow		Inside /	
	21:52-GMT	Position: 255° / 1020 m	Dir: West; Behavior: Slow travel • Fluke	Outside	
	26	Fair - 2	<i>Er</i> Total 4 — 0 Calves at sighting		
		14:55:00 PDT	Breach		
21:55-GMT		Position: 138° / 2749 m	Dir: West; Behavior: Slow travel • Breach		
15:05:00 PDT		Blow			
22:05-GMT		Position: 153° / 2749 m	Dir: West; Behavior: Slow travel		

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		15:11:00 PDT	Blow	
		22:11-GMT	Position: 159° / 1922 m Dir: West; Behavior: Slow travel	
		15:18:00 PDT	Breach	
		22:18-GMT	Position: 174° / 1674 m Dir: West; Behavior: Slow travel • Breach	
		15:21:00 PDT	Blow	
		22:21-GMT	Position: 182° / 1483 m Dir: West; Behavior: Slow travel • Rolling "sharking"	
		15:24:00 PDT	Blow	
		22:24-GMT	Position: 188° / 1483 m Dir: West; Behavior: Slow travel	
		15:26:00 PDT	Blow	
		22:26-GMT	Position: 199° / 1483 m Dir: West; Behavior: Slow travel	
		15:30:00 PDT	Blow	
		22:30-GMT	Position: 210° / 1674 m Dir: West; Behavior: Slow travel	
		15:32:00 PDT	Blow	
		22:32-GMT	Position: 215° / 1483 m Dir: West; Behavior: Slow travel • Rolling "sharking"	
		15:40:00 PDT	Blow	Inside /
		22:40-GMT	Position: 233° / 1922 m Dir: West; Behavior: Slow travel • Spypop • "sharking"	Outside
	32	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		16:46:00 PDT	Blow	
		23:46-GMT	Position: 193° / 1331 m Dir: West; Behavior: Slow travel	
		16:49:00 PDT	Blow	
		23:49-GMT	Position: 202° / 1331 m Dir: West; Behavior: Slow travel	
		16:52:00 PDT	Blow	
		23:52-GMT	Position: 213° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		16:56:00 PDT	Blow	Inside /
		23:56-GMT	Position: 232° / 1674 m Dir: West; Behavior: Slow travel	Outside
Mar 17	Total 26 Calves 0	Er Gray whale (northbound)		
Day 38 of 105				
	01	Poor - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		8:55:00 PDT	Blow	
		15:55-GMT	Position: 159° / 539 m Dir: West; Behavior: Slow travel	
		8:59:00 PDT	Blow	
		15:59-GMT	Position: 200° / 528 m Dir: West; Behavior: Slow travel	
		9:00:00 PDT	Blow	
		16:00-GMT	Position: 209° / 528 m Dir: West; Behavior: Slow travel	
		9:03:00 PDT	Blow	Inside /
		16:03-GMT	Position: 238° / 550 m Dir: West; Behavior: Slow travel	Outside
	08	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:06:00 PDT	Blow	
		17:06-GMT	Position: 116° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		10:15:00 PDT	Blow	
		17:15-GMT	Position: 136° / 1208 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau			Holly/Buoys
	Number	Time	Blow/Body		
		10:23:00 PDT	Blow		
		17:23-GMT	Position: 176° / 778 m	Dir: West; Behavior: Slow travel • Fluke	
		10:26:00 PDT	Blow		
		17:26-GMT	Position: 201° / 778 m	Dir: West; Behavior: Slow travel	
		<i>Zc with whales</i>			
		10:30:00 PDT	Body		
		17:30-GMT	Position: 233° / 778 m	Dir: West; Behavior: Slow travel • Fluke	
		10:38:00 PDT	Body		
		17:38-GMT	Position: 253° / 1674 m	Dir: West; Behavior: Slow travel • Fluke	
		10:47:00 PDT	Blow		Inside /
		17:47-GMT	Position: 266° / 2749 m	Dir: West; Behavior: Slow travel • Fluke	Outside
16	Fair - 0	<i>Er</i> Total 5 — 0 Calves at sighting			
		11:25:00 PDT	Blow		
		18:25-GMT	Position: 152° / 3528 m	Dir: West; Behavior: Slow travel	
		11:30:00 PDT	Blow		
		18:30-GMT	Position: 157° / 2749 m	Dir: West; Behavior: Slow travel • Fluke	
		11:38:00 PDT	Blow		
		18:38-GMT	Position: 164° / 2749 m	Dir: West; Behavior: Slow travel	
		11:43:00 PDT	Blow		
		18:43-GMT	Position: 171° / 2749 m	Dir: West; Behavior: Slow travel • Fluke	
		11:45:00 PDT	Blow		
		18:45-GMT	Position: 174° / 2260 m	Dir: West; Behavior: Slow travel	
		11:50:00 PDT	Blow		
		18:50-GMT	Position: 183° / 2749 m	Dir: West; Behavior: Slow travel	
		11:54:00 PDT	Blow		ND / ND
		18:54-GMT	Position: 191° / 2749 m	Dir: West; Behavior: Slow travel • Fluke	
20	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting			
		11:57:00 PDT	Blow		
		18:57-GMT	Position: 139° / 3528 m	Dir: West; Behavior: Slow travel	
		12:05:00 PDT	Blow		
		19:05-GMT	Position: 151° / 3528 m	Dir: West; Behavior: Slow travel	
		12:29:00 PDT	Blow		
		19:29-GMT	Position: 166° / 3528 m	Dir: West; Behavior: Slow travel	
		13:12:00 PDT	Blow		
		20:12-GMT	Position: 187° / 3088 m	Dir: West; Behavior: Slow travel	
		13:20:00 PDT	Blow		
		20:20-GMT	Position: 191° / 3088 m	Dir: West; Behavior: Slow travel	
		13:33:00 PDT	Blow		Outside /
		20:33-GMT	Position: 200° / 2749 m	Dir: West; Behavior: Slow travel	Outside
21	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting			
		12:19:00 PDT	Blow		
		19:19-GMT	Position: 139° / 1106 m	Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:23:00 PDT	Blow	
		19:23-GMT	Position: 156° / 778 m Dir: West; Behavior: Slow travel • Fluke	
		12:28:00 PDT	Blow	ND / ND
		19:28-GMT	Position: 200° / 600 m Dir: West; Behavior: Slow travel • Fluke	
	22	Fair - 0	<i>Er</i> Total 4 — 0 Calves at sighting	
		12:22:00 PDT	Blow	
		19:22-GMT	Position: 141° / 3528 m Dir: West; Behavior: Slow travel	
		12:34:00 PDT	Blow	
		19:34-GMT	Position: 147° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		12:48:00 PDT	Blow	
		19:48-GMT	Position: 162° / 2749 m Dir: West; Behavior: Slow travel <i>in front of Condor Express</i>	
		12:50:00 PDT	Splash	
		19:50-GMT	Position: 168° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		13:06:00 PDT	Blow	
		20:06-GMT	Position: 171° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		13:12:00 PDT	Blow	
		20:12-GMT	Position: 179° / 2749 m Dir: West; Behavior: Slow travel	
		13:24:00 PDT	Blow	
		20:24-GMT	Position: 196° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		13:32:00 PDT	Blow	
		20:32-GMT	Position: 207° / 2749 m Dir: West; Behavior: Slow travel	
		13:39:00 PDT	Blow	Outside / Outside
		20:39-GMT	Position: 217° / 3088 m Dir: West; Behavior: Slow travel	
	27	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		12:55:00 PDT	Blow	
		19:55-GMT	Position: 163° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		13:05:00 PDT	Blow	
		20:05-GMT	Position: 166° / 2749 m Dir: West; Behavior: Slow travel	
		13:23:00 PDT	Blow	ND / Outside
		20:23-GMT	Position: 185° / 2749 m Dir: West; Behavior: Slow travel	
	30	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:08:00 PDT	Blow	
		20:08-GMT	Position: 176° / 2749 m Dir: West; Behavior: Slow travel	
		13:19:00 PDT	Blow	
		20:19-GMT	Position: 194° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		13:33:00 PDT	Blow	Outside / Outside
		20:33-GMT	Position: 211° / 3528 m Dir: West; Behavior: Slow travel	
	33	Fair - 2	<i>Er</i> Total 3 — 0 Calves at sighting	
		14:30:00 PDT	Blow	
		21:30-GMT	Position: 155° / 2749 m Dir: West; Behavior: Slow travel	
		14:37:00 PDT	Blow	
		21:37-GMT	Position: 161° / 2749 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau			Holly/Buoys
	Number	Time	Blow/Body		
		14:49:00 PDT	Blow		
		21:49-GMT	Position: 174° / 2260 m	Dir: West; Behavior: Slow travel • Fluke	
		14:53:00 PDT	Blow		
		21:53-GMT	Position: 181° / 2749 m	Dir: West; Behavior: Slow travel	
		14:56:00 PDT	Body		
		21:56-GMT	Position: 184° / 2260 m	Dir: West; Behavior: Slow travel	
		14:58:00 PDT	Blow		
		21:58-GMT	Position: 190° / 1922 m	Dir: West; Behavior: Slow travel	
		15:01:00 PDT	Blow		
		22:01-GMT	Position: 195° / 1922 m	Dir: West; Behavior: Slow travel • Fluke	
		15:11:00 PDT	Blow		
		22:11-GMT	Position: 221° / 1922 m	Dir: West; Behavior: Slow travel	
		15:29:00 PDT	Blow		Inside /
		22:29-GMT	Position: 250° / 2749 m	Dir: West; Behavior: Slow travel • Fluke	Outside
34	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting			
		15:18:00 PDT	Blow		
		22:18-GMT	Position: 216° / 2260 m	Dir: West; Behavior: Slow travel	
		<i>joined or perhaps part of S#33 all along -- now 5 whales</i>			
		15:31:00 PDT	Blow		Inside /
		22:31-GMT	Position: 236° / 2260 m	Dir: West; Behavior: Slow travel	Outside
38	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting			
		16:33:00 PDT	Blow		
		23:33-GMT	Position: 132° / 3528 m	Dir: West; Behavior: Slow travel	
		16:41:00 PDT	Blow		
		23:41-GMT	Position: 139° / 2749 m	Dir: West; Behavior: Slow travel • Fluke	
		16:50:00 PDT	Blow		ND / ND
		23:50-GMT	Position: 151° / 2749 m	Dir: West; Behavior: Slow travel	

Mar 18 Total 9 Calves 0
Day 39 of 105

Er Gray whale (northbound)

03	Poor - 0	<i>Er</i> Total 2 — 0 Calves at sighting			
		9:55:00 PDT	Blow		
		16:55-GMT	Position: 105° / 3088 m	Dir: West; Behavior: Slow travel	
		9:58:00 PDT	Blow		
		16:58-GMT	Position: 106° / 3088 m	Dir: West; Behavior: Slow travel • Fluke	
		<i>both whales fluked</i>			
		10:06:00 PDT	Blow		
		17:06-GMT	Position: 110° / 2260 m	Dir: West; Behavior: Slow travel • Fluke	
		10:11:00 PDT	Blow		
		17:11-GMT	Position: 109° / 1922 m	Dir: West; Behavior: Slow travel	
		10:14:00 PDT	Blow		
		17:14-GMT	Position: 111° / 1922 m	Dir: West; Behavior: Slow travel	
		10:18:00 PDT	Blow		
		17:18-GMT	Position: 121° / 1483 m	Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:20:00 PDT	Blow	
		17:20-GMT	Position: 124° / 1106 m Dir: West; Behavior: Slow travel	
		10:24:00 PDT	Blow	
		17:24-GMT	Position: 142° / 661 m Dir: West; Behavior: Slow travel	
		10:28:00 PDT	Blow	
		17:28-GMT	Position: 169° / 550 m Dir: West; Behavior: Slow travel	
		10:32:00 PDT	Blow	Inside / ND
		17:32-GMT	Position: 192° / 471 m Dir: West; Behavior: Slow travel	
	04	Poor - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:18:00 PDT	Blow	
		17:18-GMT	Position: 116° / 1922 m Dir: West; Behavior: Slow travel	
			<i>trailing S#3</i>	
		10:22:00 PDT	Blow	
		17:22-GMT	Position: 116° / 1922 m Dir: Stationary; Behavior: Still, not moving	
		10:26:00 PDT	Blow	
		17:26-GMT	Position: 116° / 1922 m Dir: Stationary; Behavior: Still, not moving	
		10:35:00 PDT	Blow	ND / ND
		17:35-GMT	Position: 164° / 913 m Dir: West; Behavior: Slow travel	
	06	Poor - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:38:00 PDT	Blow	
		17:38-GMT	Position: 110° / 2260 m Dir: West; Behavior: Slow travel	
		10:45:00 PDT	Blow	
		17:45-GMT	Position: 110° / 2260 m Dir: West; Behavior: Slow travel	
		11:04:00 PDT	Blow	
		18:04-GMT	Position: 123° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		11:10:00 PDT	Blow	
		18:10-GMT	Position: 148° / 946 m Dir: West; Behavior: Slow travel • Fluke	
		11:17:00 PDT	Blow	
		18:17-GMT	Position: 208° / 600 m Dir: West; Behavior: Slow travel • Fluke	
		11:28:00 PDT	Blow	
		18:28-GMT	Position: 229° / 778 m Dir: West; Behavior: Slow travel	
		11:33:00 PDT	Blow	Inside / ND
		18:33-GMT	Position: 239° / 629 m Dir: West; Behavior: Slow travel	
			<i>S#8 may have joined with this group</i>	
	08	Poor - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:15:00 PDT	Blow	
		18:15-GMT	Position: 117° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		11:25:00 PDT	Blow	Inside / ND
		18:25-GMT	Position: 156° / 827 m Dir: West; Behavior: Slow travel	
			<i>may have joined s#6</i>	
	14	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:10:00 PDT	Blow	
		20:10-GMT	Position: 135° / 913 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:17:00 PDT	Blow	
		20:17-GMT	Position: 216° / 471 m Dir: West; Behavior: Slow travel	
		13:23:00 PDT	Blow	Inside / Outside
		20:23-GMT	Position: 267° / 1331 m Dir: West; Behavior: Slow travel	
	19	Poor - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:29:00 PDT	Blow	
		21:29-GMT	Position: 195° / 1331 m Dir: West; Behavior: Slow travel	
		14:35:00 PDT	Blow	
		21:35-GMT	Position: 221° / 1403 m Dir: West; Behavior: Slow travel	
		14:39:00 PDT	Blow	Inside / Outside
		21:39-GMT	Position: 233° / 1674 m Dir: West; Behavior: Slow travel	
	22	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:11:00 PDT	Blow	
		22:11-GMT	Position: 176° / 2260 m Dir: West; Behavior: Slow travel	
		15:15:00 PDT	Blow	
		22:15-GMT	Position: 191° / 1922 m Dir: West; Behavior: Slow travel	
		15:18:00 PDT	Blow	
		22:18-GMT	Position: 202° / 1922 m Dir: West; Behavior: Slow travel	
		15:20:00 PDT	Blow	
		22:20-GMT	Position: 206° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		15:28:00 PDT	Blow	Inside / Outside
		22:28-GMT	Position: 235° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
Mar 20	Total 24 Calves 0	Er Gray whale (northbound)		
Day 41 of 105				
	03	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:34:00 PDT	Blow	
		16:34-GMT	Position: 153° / 2749 m Dir: West; Behavior: Slow travel	
		9:46:00 PDT	Blow	ND / Outside
		16:46-GMT	Position: 193° / 1922 m Dir: West; Behavior: Slow travel	
	06	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:12:00 PDT	Blow	
		17:12-GMT	Position: 137° / 1020 m Dir: West; Behavior: Slow travel	
			<i>feeding?</i>	
		10:27:00 PDT	Blow	
		17:27-GMT	Position: 169° / 735 m Dir: West; Behavior: Slow travel • Fluke	
		10:31:00 PDT	Blow	Inside / Outside
		17:31-GMT	Position: 206° / 778 m Dir: West; Behavior: Slow travel	
	09	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		11:16:00 PDT	Blow	
		18:16-GMT	Position: 196° / 3528 m Dir: West; Behavior: Slow travel	
		11:21:00 PDT	Blow	
		18:21-GMT	Position: 206° / 3528 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		11:35:00 PDT 18:35-GMT	Blow Position: 230° / 3088 m Dir: West; Behavior: Slow travel • Breach	Outside / Outside
	11	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		11:32:00 PDT 18:32-GMT	Blow Position: 123° / 946 m Dir: West; Behavior: Slow travel	
		11:41:00 PDT 18:41-GMT	Blow Position: 182° / 528 m Dir: West; Behavior: Slow travel	ND / ND
	12	Poor - 1	<i>Er</i> Total 4 — 0 Calves at sighting	
		12:13:00 PDT 19:13-GMT	Blow Position: 164° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		12:24:00 PDT 19:24-GMT	Blow Position: 191° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		12:31:00 PDT 19:31-GMT	Blow Position: 204° / 3088 m Dir: West; Behavior: Slow travel	
		12:33:00 PDT 19:33-GMT	Blow Position: 214° / 3088 m Dir: West; Behavior: Slow travel	
		12:38:00 PDT 19:38-GMT	Blow Position: 217° / 3088 m Dir: West; Behavior: Slow travel	ND / Outside
	16	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:00:00 PDT 20:00-GMT	Blow Position: 171° / 3088 m Dir: West; Behavior: Slow travel	
		13:11:00 PDT 20:11-GMT	Blow Position: 186° / 3088 m Dir: West; Behavior: Slow travel • Rolling • <i>"sharking"</i>	
		13:14:00 PDT 20:14-GMT	Blow Position: 189° / 3088 m Dir: West; Behavior: Slow travel • Spyhop	
		13:22:00 PDT 20:22-GMT	Blow Position: 198° / 3088 m Dir: West; Behavior: Slow travel	
		13:29:00 PDT 20:29-GMT	Blow Position: 206° / 3088 m Dir: West; Behavior: Slow travel	ND / Outside
	21	Poor - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:16:00 PDT 21:16-GMT	Blow Position: 114° / 913 m Dir: West; Behavior: Slow travel <i>Images: MHS3034,7</i>	
			<i>Looking at images, it appears that there is a second whale - believe it is a calf - our first calf - ?? add 1 Er + 1 Er Calf ??</i>	
		14:20:00 PDT 21:20-GMT	Blow Position: 128° / 574 m Dir: West; Behavior: Slow travel <i>bubbles from second, small whale (calf) inside large whale (cow)</i> <i>image MHS3034</i>	
		14:23:00 PDT 21:23-GMT	Blow Position: 162° / 356 m Dir: West; Behavior: Slow travel	
		14:26:00 PDT 21:26-GMT	Blow Position: 212° / 412 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau		
	Number	Time	Blow/Body	Holly/Buoys
		14:29:00 PDT	ni	
		21:29-GMT	Position: 259° / 629 m Dir: West; Behavior: Slow travel	
		14:32:00 PDT	Blow	Inside /
		21:32-GMT	Position: 277° / 913 m Dir: West; Behavior: Slow travel	Through
	23	Poor - 2	<i>Er</i>	
		14:00:00 PDT	Blow	
		21:00-GMT	Position: 159° / 550 m Dir: West; Behavior: Slow travel	
			<i>V#10 headed at whale</i>	
		14:35:00 PDT	Blow	
		21:35-GMT	Position: 134° / 883 m Dir: West; Behavior: Slow travel	
		14:39:00 PDT	Blow	
		21:39-GMT	Position: 152° / 661 m Dir: West; Behavior: Slow travel	
		14:41:00 PDT	Blow	
		21:41-GMT	Position: 172° / 471 m Dir: West; Behavior: Slow travel	
		14:45:00 PDT	Blow	
		21:45-GMT	Position: 213° / 508 m Dir: West; Behavior: Slow travel	
		14:46:00 PDT	Blow	
		21:46-GMT	Position: 222° / 696 m Dir: West; Behavior: Slow travel	
		14:47:00 PDT	Blow	
		21:47-GMT	Position: 241° / 528 m Dir: West; Behavior: Slow travel	
		14:51:00 PDT	Blow	
		21:51-GMT	Position: 261° / 827 m Dir: West; Behavior: Slow travel	
		14:53:00 PDT	Blow	Inside / Inside
		21:53-GMT	Position: 273° / 913 m Dir: West; Behavior: Slow travel	
	25	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:06:00 PDT	Body	
		22:06-GMT	Position: 219° / 1922 m Dir: West; Behavior: Slow travel	
		15:09:00 PDT	Blow	
		22:09-GMT	Position: 227° / 2749 m Dir: West; Behavior: Slow travel	
		15:11:00 PDT	Blow	
		22:11-GMT	Position: 230° / 3088 m Dir: West; Behavior: Slow travel	
		15:14:00 PDT	Blow	Inside /
		22:14-GMT	Position: 236° / 3088 m Dir: West; Behavior: Slow travel	Outside
	26	Fair - 1	<i>Er</i>	
		15:14:00 PDT	Blow	
		22:14-GMT	Position: 179° / 1483 m Dir: West; Behavior: Slow travel	
		15:15:00 PDT	Blow	
		22:15-GMT	Position: 182° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		15:21:00 PDT	Blow	
		22:21-GMT	Position: 210° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		15:33:00 PDT	Blow	
		22:33-GMT	Position: 250° / 1922 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		15:36:00 PDT	Blow	Inside /
		22:36-GMT	Position: 255° / 2260 m Dir: West; Behavior: Slow travel	Outside
	27	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:27:00 PDT	Blow	
		22:27-GMT	Position: 157° / 778 m Dir: West; Behavior: Slow travel	
		15:32:00 PDT	Blow	
		22:32-GMT	Position: 202° / 696 m Dir: West; Behavior: Slow travel • Fluke	
		15:38:00 PDT	Blow	
		22:38-GMT	Position: 243° / 946 m Dir: West; Behavior: Slow travel	
		15:40:00 PDT	Blow	Inside /
		22:40-GMT	Position: 246° / 1331 m Dir: West; Behavior: Slow travel	Outside
	29	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:49:00 PDT		
		22:49-GMT	Position: 122° / 2260 m Dir: West; Behavior: Slow travel	
		15:57:00 PDT	Blow	
		22:57-GMT	Position: 145° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		16:08:00 PDT	Blow	
		23:08-GMT	Position: 194° / 946 m Dir: West; Behavior: Slow travel	
		16:14:00 PDT	Blow	
		23:14-GMT	Position: 237° / 1106 m Dir: West; Behavior: Slow travel	
		16:25:00 PDT	Blow	Inside /
		23:25-GMT	Position: 269° / 1922 m Dir: West; Behavior: Slow travel • Fluke	Outside
	30	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:56:00 PDT	Blow	
		22:56-GMT	Position: 116° / 2749 m Dir: West; Behavior: Slow travel	
		16:02:00 PDT	Blow	
		23:02-GMT	Position: 124° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		16:14:00 PDT	Blow	
		23:14-GMT	Position: 156° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		16:17:00 PDT	Blow	
		23:17-GMT	Position: 186° / 913 m Dir: West; Behavior: Slow travel	
		16:41:00 PDT	Blow	Inside /
		23:41-GMT	Position: 264° / 2260 m Dir: West; Behavior: Slow travel	Outside
	31	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		16:07:00 PDT	Blow	
		23:07-GMT	Position: 159° / 946 m Dir: West; Behavior: Slow travel	
		16:20:00 PDT	Blow	
		23:20-GMT	Position: 188° / 883 m Dir: West; Behavior: Slow travel • Fluke	
		16:27:00 PDT	Blow	
		23:27-GMT	Position: 231° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		16:40:00 PDT	Blow	Inside /
		23:40-GMT	Position: 262° / 1483 m Dir: West; Behavior: Slow travel	Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau	Time	Blow/Body	Holly/Buoys
Mar 21 Day 42 of 105	Total 13	Calves 0	Er Gray whale (northbound)		
	06	Poor - 0	<i>Er</i> Total 2 — 0 Calves at sighting		
			10:04:00 PDT	Body	
			17:04-GMT	Position: 183° / 2749 m	Dir: West; Behavior: Slow travel
			10:11:00 PDT	Body	
			17:11-GMT	Position: 204° / 2749 m	Dir: East; Behavior: Slow travel • Fluke • <i>feeding?</i>
			10:24:00 PDT	Blow	Outside /
			17:24-GMT	Position: 232° / 3528 m	Dir: West; Behavior: Slow travel Outside
	07	Poor - 0	<i>Er</i> Total 3 — 0 Calves at sighting		
			10:36:00 PDT	Blow	
			17:36-GMT	Position: 145° / 3088 m	Dir: West; Behavior: Slow travel
			10:41:00 PDT	Blow	
			17:41-GMT	Position: 147° / 2749 m	Dir: West; Behavior: Slow travel • Fluke
			10:49:00 PDT	Blow	
			17:49-GMT	Position: 158° / 3088 m	Dir: West; Behavior: Slow travel • Fluke
			10:58:00 PDT	Blow	
			17:58-GMT	Position: 174° / 2749 m	Dir: West; Behavior: Slow travel
			11:04:00 PDT	Blow	
			18:04-GMT	Position: 189° / 2749 m	Dir: West; Behavior: Slow travel
			11:06:00 PDT	Blow	
			18:06-GMT	Position: 194° / 2749 m	Dir: West; Behavior: Slow travel
			11:16:00 PDT	Blow	
			18:16-GMT	Position: 220° / 2749 m	Dir: West; Behavior: Slow travel • Rolling •
			11:26:00 PDT	Blow	Outside /
			18:26-GMT	Position: 240° / 3088 m	Dir: West; Behavior: Slow travel • Fluke Outside
	08	Poor - 0	<i>Er</i> Total 1 — 0 Calves at sighting		
			10:56:00 PDT	Blow	
			17:56-GMT	Position: 170° / 489 m	Dir: West; Behavior: Slow travel
			10:59:00 PDT	Body	
			17:59-GMT	Position: 211° / 2749 m	Dir: West; Behavior: Slow travel
			11:01:00 PDT	Blow	
			18:01-GMT	Position: 240° / 550 m	Dir: West; Behavior: Slow travel
			11:03:00 PDT	Blow	Inside / ND
			18:03-GMT	Position: 247° / 661 m	Dir: West; Behavior: Slow travel • Fluke
	12	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
			12:56:00 PDT	Blow	
			19:56-GMT	Position: 117° / 2260 m	Dir: West; Behavior: Slow travel
			13:04:00 PDT	Blow	
			20:04-GMT	Position: 134° / 1483 m	Dir: West; Behavior: Slow travel
			13:12:00 PDT	Blow	
			20:12-GMT	Position: 178° / 883 m	Dir: West; Behavior: Slow travel

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:14:00 PDT	Blow	
		20:14-GMT	Position: 204° / 735 m Dir: West; Behavior: Slow travel • Fluke <i>at this position, six surfacings ???</i>	
		13:22:00 PDT	Blow	Inside /
		20:22-GMT	Position: 252° / 946 m Dir: West; Behavior: Slow travel	Outside
	14	Poor - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:14:00 PDT	Blow	
		21:14-GMT	Position: 110° / 2749 m Dir: West; Behavior: Slow travel	
		14:32:00 PDT	Blow	
		21:32-GMT	Position: 125° / 1922 m Dir: West; Behavior: Slow travel	
		14:48:00 PDT	Blow	
		21:48-GMT	Position: 197° / 629 m Dir: West; Behavior: Slow travel • Fluke	
		14:59:00 PDT	Blow	
		21:59-GMT	Position: 248° / 1106 m Dir: West; Behavior: Slow travel	
		15:08:00 PDT	Blow	Inside /
		22:08-GMT	Position: 267° / 2749 m Dir: West; Behavior: Slow travel	Outside
	15	Poor - 3	<i>Er</i> Total 4 — 0 Calves at sighting	
		14:46:00 PDT	Blow	
		21:46-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel	
		14:55:00 PDT	Blow	
		21:55-GMT	Position: 167° / 3528 m Dir: West; Behavior: Slow travel	
		15:09:00 PDT	Blow	
		22:09-GMT	Position: 184° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		15:23:00 PDT	Blow	
		22:23-GMT	Position: 209° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		15:37:00 PDT	Blow	Outside /
		22:37-GMT	Position: 226° / 3088 m Dir: West; Behavior: Slow travel	Outside
Mar 22	Total 7 Calves 0	Er Gray whale (northbound)		
Day 43 of 105				
	01	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting <i>Disappeared</i>	
		9:16:00 PDT	Body	Inside / ND
		16:16-GMT	Position: 220° / 778 m Dir: West; Behavior: Slow travel	
	06	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:24:00 PDT	Blow	
		21:24-GMT	Position: 151° / 1674 m Dir: West; Behavior: Slow travel	
		14:31:00 PDT	Body	
		21:31-GMT	Position: 179° / 1331 m Dir: West; Behavior: Slow travel	
		14:39:00 PDT	Body	Inside / ND
		21:39-GMT	Position: 198° / 629 m Dir: West; Behavior: Slow travel • Spynop <i>sharking</i>	
	09	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:31:00 PDT	Blow	
		22:31-GMT	Position: 178° / 3088 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		15:36:00 PDT	Blow	
		22:36-GMT	Position: 188° / 2749 m Dir: West; Behavior: Slow travel	
		15:44:00 PDT	Blow	
		22:44-GMT	Position: 207° / 3088 m Dir: West; Behavior: Slow travel	
		15:49:00 PDT	Blow	
		22:49-GMT	Position: 216° / 3088 m Dir: West; Behavior: Slow travel	
		15:54:00 PDT	Blow	Outside /
		22:54-GMT	Position: 224° / 3088 m Dir: West; Behavior: Slow travel	Outside
	11	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:58:00 PDT	Blow	
		22:58-GMT	Position: 215° / 388 m Dir: West; Behavior: Slow travel	
		16:01:00 PDT	Blow	
		23:01-GMT	Position: 245° / 528 m Dir: West; Behavior: Slow travel	
		16:05:00 PDT	Blow	Inside /
		23:05-GMT	Position: 270° / 827 m Dir: West; Behavior: Slow travel	Through
	12	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:16:00 PDT	Blow	
		23:16-GMT	Position: 116° / 2260 m Dir: West; Behavior: Slow travel	
		16:24:00 PDT	Blow	
		23:24-GMT	Position: 124° / 1331 m Dir: West; Behavior: Slow travel	
		16:32:00 PDT	Blow Images: MHS 3107-8	
		23:32-GMT	Position: 164° / 661 m Dir: West; Behavior: Slow travel	
		16:34:00 PDT	Blow	
		23:34-GMT	Position: 188° / 550 m Dir: West; Behavior: Slow travel	
		16:39:00 PDT	Blow	Inside /
		23:39-GMT	Position: 226° / 735 m Dir: West; Behavior: Slow travel	Outside

Mar 23 Total 25 Calves 0
Day 44 of 105

Er Gray whale (northbound)

04	Poor - 1	<i>Er</i> Total 3 — 0 Calves at sighting		
		9:29:00 PDT	Blow	
		16:29-GMT	Position: 118° / 3528 m Dir: West; Behavior: Slow travel	
		9:46:00 PDT	Blow	
		16:46-GMT	Position: 126° / 3528 m Dir: West; Behavior: Slow travel	
		9:53:00 PDT	Blow	
		16:53-GMT	Position: 131° / 3088 m Dir: West; Behavior: Slow travel	
		9:59:00 PDT	Blow	
		16:59-GMT	Position: 137° / 3088 m Dir: West; Behavior: Slow travel	
		10:01:00 PDT	Blow	
		17:01-GMT	Position: 141° / 2749 m Dir: West; Behavior: Slow travel	
		10:07:00 PDT	Blow	
		17:07-GMT	Position: 149° / 2749 m Dir: West; Behavior: Slow travel	
		10:16:00 PDT	Blow	
		17:16-GMT	Position: 161° / 1483 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:17:00 PDT	Blow	
		17:17-GMT	Position: 164° / 2260 m Dir: West; Behavior: Slow travel • Rolling	
		10:25:00 PDT	Blow	
		17:25-GMT	Position: 186° / 2260 m Dir: West; Behavior: Slow travel	
		10:34:00 PDT	Blow	
		17:34-GMT	Position: 224° / 1922 m Dir: West; Behavior: Slow travel	
		10:36:00 PDT	Body	
		17:36-GMT	Position: 231° / 1922 m Dir: West; Behavior: Slow travel • Spyhop • <i>sharking</i>	
		10:42:00 PDT	Blow	Inside / Outside
		17:42-GMT	Position: 245° / 2749 m Dir: West; Behavior: Slow travel	
		<i>S#4 + S#5 merged</i>		
	05	Poor - 1	<i>Er</i> Total 4 — 0 Calves at sighting	
		9:42:00 PDT	Blow	
		16:42-GMT	Position: 120° / 3088 m Dir: West; Behavior: Slow travel	
		9:45:00 PDT	Blow	
		16:45-GMT	Position: 122° / 1922 m Dir: West; Behavior: Slow travel	
		9:54:00 PDT	Blow	
		16:54-GMT	Position: 127° / 3088 m Dir: West; Behavior: Slow travel	
		9:59:00 PDT	Blow	
		16:59-GMT	Position: 131° / 3088 m Dir: West; Behavior: Slow travel	
		10:01:00 PDT	Blow	
		17:01-GMT	Position: 134° / 3088 m Dir: West; Behavior: Slow travel	
		10:06:00 PDT	Blow	
		17:06-GMT	Position: 143° / 2749 m Dir: West; Behavior: Slow travel	
		10:13:00 PDT	Blow	
		17:13-GMT	Position: 154° / 2749 m Dir: West; Behavior: Slow travel	
		10:22:00 PDT	Blow	Inside / Outside
		17:22-GMT	Position: 178° / 2749 m Dir: West; Behavior: Slow travel	
		<i>merged with S#4</i>		
	06	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:03:00 PDT	Blow	
		17:03-GMT	Position: 151° / 1483 m Dir: West; Behavior: Slow travel	
		10:10:00 PDT	Body	
		17:10-GMT	Position: 184° / 913 m Dir: West; Behavior: Slow travel	
		10:19:00 PDT	Blow	Inside / Outside
		17:19-GMT	Position: 248° / 946 m Dir: West; Behavior: Slow travel • Fluke	
	07	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:08:00 PDT	Blow	
		17:08-GMT	Position: 133° / 2749 m Dir: West; Behavior: Slow travel	
		10:13:00 PDT	Blow	
		17:13-GMT	Position: 146° / 2260 m Dir: West; Behavior: Slow travel	
		10:30:00 PDT	Blow	ND / ND
		17:30-GMT	Position: 168° / 1674 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys	
	Number	Time			
11	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting			
	11:29:00 PDT	Blow			
	18:29-GMT	Position: 146° / 946 m	Dir: West; Behavior: Slow travel		
	11:31:00 PDT	Blow			
	18:31-GMT	Position: 156° / 827 m	Dir: West; Behavior: Slow travel		
	11:37:00 PDT	Blow		Inside / ND	
	18:37-GMT	Position: 209° / 661 m	Dir: West; Behavior: Slow travel		
	12	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		11:48:00 PDT	Blow		
		18:48-GMT	Position: 113° / 2749 m	Dir: West; Behavior: Slow travel	
		11:52:00 PDT	Blow		
		18:52-GMT	Position: 121° / 1674 m	Dir: West; Behavior: Slow travel	
11:54:00 PDT		Blow			
18:54-GMT		Position: 123° / 1483 m	Dir: West; Behavior: Slow travel		
11:58:00 PDT		Blow			
18:58-GMT		Position: 133° / 1020 m	Dir: West; Behavior: Slow travel		
12:01:00 PDT		Blow			
19:01-GMT		Position: 144° / 883 m	Dir: West; Behavior: Slow travel		
12:04:00 PDT		Blow			
19:04-GMT	Position: 160° / 661 m	Dir: West; Behavior: Slow travel			
12:08:00 PDT	Body		Inside / ND		
19:08-GMT	Position: 198° / 600 m	Dir: West; Behavior: Slow travel			
13	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting			
	11:56:00 PDT	Blow			
	18:56-GMT	Position: 144° / 3088 m	Dir: West; Behavior: Slow travel		
	12:00:00 PDT	Blow			
	19:00-GMT	Position: 151° / 3088 m	Dir: West; Behavior: Slow travel		
	12:12:00 PDT	Blow			
	19:12-GMT	Position: 168° / 2749 m	Dir: West; Behavior: Slow travel • Rolling <i>sharking</i>		
	12:16:00 PDT	Body			
	19:16-GMT	Position: 178° / 2260 m	Dir: West; Behavior: Slow travel • Rolling		
	12:30:00 PDT	Blow			
	19:30-GMT	Position: 222° / 2260 m	Dir: West; Behavior: Slow travel • Rolling		
	12:34:00 PDT	Blow		Inside / Outside	
19:34-GMT	Position: 234° / 2260 m	Dir: West; Behavior: Slow travel • Rolling			
16	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting			
	12:18:00 PDT	Body			
	19:18-GMT	Position: 164° / 1483 m	Dir: West; Behavior: Slow travel		
	12:22:00 PDT	Blow		ND / ND	
19:22-GMT	Position: 187° / 1106 m	Dir: West; Behavior: Slow travel <i>Disappeared after vessel V#17 traveled over while whale underwater</i>			

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	23	Poor - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:29:00 PDT	Blow	
		22:29-GMT	Position: 116° / 2260 m Dir: West; Behavior: Slow travel	
		15:36:00 PDT	Blow	
		22:36-GMT	Position: 128° / 1483 m Dir: West; Behavior: Slow travel	
		15:45:00 PDT	Body	
		22:45-GMT	Position: 157° / 735 m Dir: West; Behavior: Slow travel	
		15:54:00 PDT	Body	
		22:54-GMT	Position: 246° / 600 m Dir: West; Behavior: Slow travel	
		16:02:00 PDT	Blow	Inside /
		23:02-GMT	Position: 264° / 1922 m Dir: West; Behavior: Slow travel	Outside
	25	Poor - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		15:48:00 PDT	Blow	
		22:48-GMT	Position: 140° / 1922 m Dir: West; Behavior: Slow travel	
		15:52:00 PDT	Blow	
		22:52-GMT	Position: 148° / 1674 m Dir: West; Behavior: Slow travel	
		15:56:00 PDT	Blow	
		22:56-GMT	Position: 162° / 1331 m Dir: West; Behavior: Slow travel	
		15:59:00 PDT	Blow	
		22:59-GMT	Position: 174° / 1020 m Dir: West; Behavior: Slow travel	
		16:00:00 PDT	Blow	
		23:00-GMT	Position: 188° / 1208 m Dir: West; Behavior: Slow travel	
		16:04:00 PDT	Blow	
		23:04-GMT	Position: 205° / 946 m Dir: West; Behavior: Slow travel	
		16:19:00 PDT	Blow	Inside /
		23:19-GMT	Position: 262° / 1922 m Dir: West; Behavior: Slow travel	Outside
	26	Poor - 3	<i>Er</i> Total 5 — 0 Calves at sighting	
		16:08:00 PDT	Blow	
		23:08-GMT	Position: 134° / 3088 m Dir: West; Behavior: Slow travel	
			3 + 2	
		16:13:00 PDT	Blow	
		23:13-GMT	Position: 137° / 3088 m Dir: West; Behavior: Slow travel	
		16:16:00 PDT	Blow	
		23:16-GMT	Position: 147° / 1922 m Dir: West; Behavior: Slow travel	
		16:24:00 PDT	Blow	
		23:24-GMT	Position: 157° / 1674 m Dir: West; Behavior: Slow travel	
		16:28:00 PDT	Blow	
		23:28-GMT	Position: 174° / 1208 m Dir: West; Behavior: Slow travel	
		16:32:00 PDT	Blow	
		23:32-GMT	Position: 200° / 946 m Dir: West; Behavior: Slow travel	
		16:35:00 PDT	Blow	
		23:35-GMT	Position: 209° / 1331 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		16:38:00 PDT	Blow	
		23:38-GMT	Position: 228° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		16:40:00 PDT	Blow	
		23:40-GMT	Position: 235° / 1674 m Dir: West; Behavior: Slow travel	
		16:52:00 PDT	Blow	Inside /
		23:52-GMT	Position: 264° / 2749 m Dir: West; Behavior: Slow travel • Fluke	Outside
28	Poor - 2	<i>Er</i> Total 1 — 0 Calves at sighting		
		16:39:00 PDT	Blow	
		23:39-GMT	Position: 203° / 1331 m Dir: West; Behavior: Slow travel	
		16:44:00 PDT	Blow	
		23:44-GMT	Position: 237° / 1674 m Dir: West; Behavior: Slow travel	
		16:54:00 PDT	Blow	Inside /
		23:54-GMT	Position: 262° / 2749 m Dir: West; Behavior: Slow travel	Outside
		<i>joined with S#26 - catching up at the end</i>		

Mar 24 Total 9 Calves 0
Day 45 of 105

Er Gray whale (northbound)				
06	Poor - 2	<i>Er</i> Total 2 — 0 Calves at sighting		
		10:23:00 PDT	Blow	
		17:23-GMT	Position: 117° / 2749 m Dir: West; Behavior: Slow travel	
		10:30:00 PDT	Blow	
		17:30-GMT	Position: 117° / 1922 m Dir: West; Behavior: Slow travel	
		10:35:00 PDT	Blow	
		17:35-GMT	Position: 124° / 1483 m Dir: West; Behavior: Slow travel	
		10:40:00 PDT	Blow	
		17:40-GMT	Position: 139° / 946 m Dir: West; Behavior: Slow travel	
		10:46:00 PDT	Blow	
		17:46-GMT	Position: 190° / 550 m Dir: West; Behavior: Slow travel	
		10:49:00 PDT	Blow	
		17:49-GMT	Position: 223° / 574 m Dir: West; Behavior: Slow travel	
		10:52:00 PDT	Blow	
		17:52-GMT	Position: 243° / 778 m Dir: West; Behavior: Slow travel	
		<i>Zc around whales</i>		
		10:59:00 PDT	Blow	Inside /
		17:59-GMT	Position: 265° / 1674 m Dir: West; Behavior: Slow travel	Outside
13	Poor - 2	<i>Er</i> Total 2 — 0 Calves at sighting		
		11:55:00 PDT	Blow	
		18:55-GMT	Position: 114° / 3088 m Dir: West; Behavior: Slow travel	
		11:59:00 PDT	Blow	
		18:59-GMT	Position: 116° / 2749 m Dir: West; Behavior: Slow travel	
		12:04:00 PDT	Blow	
		19:04-GMT	Position: 120° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		12:15:00 PDT	Blow	
		19:15-GMT	Position: 120° / 1483 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:18:00 PDT	Blow	
		19:18-GMT	Position: 121° / 1106 m Dir: West; Behavior: Slow travel	
		12:26:00 PDT	Blow	
		19:26-GMT	Position: 136° / 550 m Dir: East; Behavior: Slow travel	
			<i>feeding ???</i>	
		12:27:00 PDT	Blow	
		19:27-GMT	Position: 140° / 550 m Dir: West; Behavior: Slow travel	
			<i>both going west again</i>	
		12:30:00 PDT	Blow Images: mhs 3154-68	
		19:30-GMT	Position: 169° / 489 m Dir: West; Behavior: Slow travel	
		12:33:00 PDT	ni	
		19:33-GMT	Position: 219° / 528 m Dir: West; Behavior: Slow travel • Fluke	
		12:35:00 PDT		
		19:35-GMT	Position: 234° / 489 m Dir: West; Behavior: Slow travel • Bubbles	
			<i>didn't actually see whales at this position, just bubble blast</i>	
		12:46:00 PDT	Blow Images: mhs 3175-94	
		19:46-GMT	Position: 232° / 489 m Dir: East; Behavior: Milling	
			<i>pointed east</i>	
		12:50:00 PDT	Blow	
		19:50-GMT	Position: 237° / 600 m Dir: Stationary; Behavior: Milling	
		12:55:00 PDT	Blow	Inside /
		19:55-GMT	Position: 257° / 1106 m Dir: West; Behavior: Slow travel	Outside
14	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		13:37:00 PDT	Blow	
		20:37-GMT	Position: 117° / 2260 m Dir: West; Behavior: Slow travel	
		13:42:00 PDT	Blow	
		20:42-GMT	Position: 132° / 1331 m Dir: West; Behavior: Slow travel	
		13:46:00 PDT	Blow	
		20:46-GMT	Position: 160° / 539 m Dir: West; Behavior: Slow travel	
		13:51:00 PDT	Blow	
		20:51-GMT	Position: 221° / 629 m Dir: West; Behavior: Slow travel	
		13:58:00 PDT	Blow	Inside /
		20:58-GMT	Position: 264° / 1331 m Dir: West; Behavior: Slow travel	Outside
17	Poor - 1	<i>Er</i> Total 2 — 0 Calves at sighting		
		14:29:00 PDT	Blow	
		21:29-GMT	Position: 148° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
		14:41:00 PDT	Blow	
		21:41-GMT	Position: 221° / 946 m Dir: West; Behavior: Slow travel • Fluke	
		14:49:00 PDT	Blow	Inside /
		21:49-GMT	Position: 250° / 1483 m Dir: West; Behavior: Slow travel • Fluke	Outside
22	Poor - 2	<i>Er</i> Total 2 — 0 Calves at sighting		
		16:52:00 PDT	Body	
		23:52-GMT	Position: 157° / 2749 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		17:00:00 PDT 0:00	Blow Position: 177° / 1922 m Dir: West; Behavior: Slow travel	ND / ND
Mar 25 Day 46 of 105	Total 12 Calves 1	Er Gray whale (northbound)		
	07	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:50:00 PDT 16:50-GMT	Blow Position: 176° / 661 m Dir: West; Behavior: Slow travel	
		9:55:00 PDT 16:55-GMT	Blow Position: 209° / 629 m Dir: West; Behavior: Slow travel • Fluke	
		10:01:00 PDT 17:01-GMT	Blow Position: 251° / 946 m Dir: West; Behavior: Slow travel	
		10:03:00 PDT 17:03-GMT	Blow Position: 259° / 778 m Dir: West; Behavior: Slow travel	Inside / Outside
	08	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:31:00 PDT 17:31-GMT	Blow Position: 98° / 3088 m Dir: West; Behavior: Slow travel	
		10:44:00 PDT 17:44-GMT	Blow Position: 108° / 3088 m Dir: West; Behavior: Slow travel	
		10:51:00 PDT 17:51-GMT	Blow Position: 134° / 1674 m Dir: West; Behavior: Slow travel	
		11:02:00 PDT 18:02-GMT	Blow Position: 166° / 661 m Dir: West; Behavior: Slow travel	
		11:11:00 PDT 18:11-GMT	Blow Position: 248° / 1106 m Dir: West; Behavior: Slow travel	Inside / Outside
	11	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		11:51:00 PDT 18:51-GMT	Blow Position: 118° / 3528 m Dir: West; Behavior: Slow travel	
		12:02:00 PDT 19:02-GMT	Blow Position: 117° / 3528 m Dir: West; Behavior: Slow travel	
		12:19:00 PDT 19:19-GMT	Blow Position: 119° / 3528 m Dir: West; Behavior: Slow travel	
		12:38:00 PDT 19:38-GMT	Blow Position: 120° / 3528 m Dir: West; Behavior: Slow travel	
		12:48:00 PDT 19:48-GMT	Blow Position: 130° / 1922 m Dir: West; Behavior: Slow travel	
		12:54:00 PDT 19:54-GMT	Blow Position: 137° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
		12:57:00 PDT 19:57-GMT	Blow Position: 147° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		13:09:00 PDT 20:09-GMT	Blow Position: 216° / 946 m Dir: West; Behavior: Slow travel	Inside / ND

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	12	Fair - 1	<i>Er</i> Total 4 — 0 Calves at sighting	
		11:59:00 PDT	Blow	
		18:59-GMT	Position: 115° / 5027 m Dir: West; Behavior: Slow travel	
		12:19:00 PDT	Blow	
		19:19-GMT	Position: 118° / 5027 m Dir: West; Behavior: Slow travel	
		12:24:00 PDT	Blow	
		19:24-GMT	Position: 118° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		12:28:00 PDT	Blow	
		19:28-GMT	Position: 119° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		12:36:00 PDT	Blow	
		19:36-GMT	Position: 124° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		12:45:00 PDT	Blow	
		19:45-GMT	Position: 134° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		12:51:00 PDT	Blow	
		19:51-GMT	Position: 143° / 1922 m Dir: West; Behavior: Slow travel	
		12:55:00 PDT	Blow	
		19:55-GMT	Position: 154° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
		13:02:00 PDT	ni	
		20:02-GMT	Position: 186° / 1331 m Dir: West; Behavior: Slow travel	
		13:11:00 PDT	Blow	Inside / ND
		20:11-GMT	Position: 234° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
	16	Fair - 3	<i>Er</i> Total 2 — 1 Calf at sighting	
		13:01:00 PDT	ni Images: mhs 3264-3306	
		20:01-GMT	Position: 114° / 1483 m Dir: West; Behavior: Slow travel	
			<i>First calf of season!</i>	
		13:07:00 PDT	Blow	
		20:07-GMT	Position: 114° / 1483 m Dir: West; Behavior: Slow travel	
		13:09:00 PDT	Blow	
		20:09-GMT	Position: 116° / 1208 m Dir: West; Behavior: Slow travel	
		13:13:00 PDT	Blow	
		20:13-GMT	Position: 120° / 883 m Dir: West; Behavior: Slow travel	
		13:16:00 PDT	Blow	
		20:16-GMT	Position: 126° / 735 m Dir: West; Behavior: Slow travel	
		13:22:00 PDT	Blow Images: mhs 3270, 71, 76, 96, 97, 3304-6	
		20:22-GMT	Position: 146° / 412 m Dir: West; Behavior: Slow travel	
			<i>mother has large chunk of skin and blubber missing from back in front of dorsal ridge</i>	
		13:27:00 PDT	ni	
		20:27-GMT	Position: 189° / 338 m Dir: West; Behavior: Slow travel	
		13:30:00 PDT	Blow	
		20:30-GMT	Position: 225° / 489 m Dir: West; Behavior: Slow travel	
		13:34:00 PDT	Blow	
		20:34-GMT	Position: 256° / 661 m Dir: West; Behavior: Slow travel	
		13:42:00 PDT	Blow Images: mhs 3264-3306	Inside / Inside
		20:42-GMT	Position: 292° / 946 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
19	Poor - 3	<i>Er</i> Total 1 — 0 Calves at sighting		
	16:13:00 PDT	Blow		
	23:13-GMT	Position: 128° / 3528 m	Dir: West; Behavior: Slow travel	
	16:24:00 PDT	Blow		
	23:24-GMT	Position: 130° / 3528 m	Dir: West; Behavior: Slow travel	
	16:31:00 PDT	Blow		
	23:31-GMT	Position: 132° / 3528 m	Dir: West; Behavior: Slow travel	
	16:39:00 PDT	Blow		
	23:39-GMT	Position: 137° / 3088 m	Dir: West; Behavior: Slow travel	
	16:47:00 PDT	Blow		
	23:47-GMT	Position: 145° / 3088 m	Dir: West; Behavior: Slow travel	
	16:51:00 PDT	Blow		
	23:51-GMT	Position: 153° / 2749 m	Dir: West; Behavior: Slow travel	
	16:54:00 PDT	Blow		
	23:54-GMT	Position: 159° / 2749 m	Dir: West; Behavior: Slow travel	
	17:08:00 PDT	Blow		Inside / ND
	0:08	Position: 213° / 2260 m	Dir: West; Behavior: Slow travel	

Mar 26 Total 26 Calves 0
Day 47 of 105

Er Gray whale (northbound)

01	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting		
	9:00:00 PDT	Blow		
	16:00-GMT	Position: 122° / 946 m	Dir: West; Behavior: Slow travel	
	9:04:00 PDT	Blow		
	16:04-GMT	Position: 136° / 778 m	Dir: West; Behavior: Slow travel	
	<i>dolphins (SD#3) traveling with whales</i>			
	9:06:00 PDT	Blow		
	16:06-GMT	Position: 147° / 489 m	Dir: West; Behavior: Slow travel	
	9:10:00 PDT	Blow		
	16:10-GMT	Position: 191° / 366 m	Dir: West; Behavior: Slow travel	
	9:13:00 PDT	Body		
	16:13-GMT	Position: 229° / 412 m	Dir: West; Behavior: Slow travel	
	9:17:00 PDT	Blow		
	16:17-GMT	Position: 262° / 489 m	Dir: West; Behavior: Slow travel	
	9:20:00 PDT	Blow		Inside / Inside
	16:20-GMT	Position: 277° / 574 m	Dir: West; Behavior: Slow travel	
	<i>Dolphins (SD#3) continuing with whales</i>			
06	Fair - 2	<i>Er</i> Total 5 — 0 Calves at sighting		
	10:10:00 PDT	Blow		
	17:10-GMT	Position: 134° / 2749 m	Dir: West; Behavior: Slow travel	
	<i>maybe 6 whales</i>			
	10:16:00 PDT	Blow		
	17:16-GMT	Position: 148° / 2260 m	Dir: West; Behavior: Slow travel	
	10:23:00 PDT	Blow		
	17:23-GMT	Position: 170° / 1922 m	Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:29:00 PDT	Blow	
		17:29-GMT	Position: 191° / 1922 m Dir: West; Behavior: Slow travel	
		10:39:00 PDT	Blow	
		17:39-GMT	Position: 226° / 1922 m Dir: West; Behavior: Slow travel	
		10:49:00 PDT	Blow	Inside /
		17:49-GMT	Position: 247° / 2749 m Dir: West; Behavior: Slow travel	Outside
	08	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:51:00 PDT	Blow	
		17:51-GMT	Position: 103° / 3528 m Dir: West; Behavior: Slow travel	
		11:13:00 PDT	Blow	
		18:13-GMT	Position: 116° / 2749 m Dir: West; Behavior: Slow travel	
		11:27:00 PDT	Blow	
		18:27-GMT	Position: 129° / 1922 m Dir: West; Behavior: Slow travel	
		11:31:00 PDT	Blow	
		18:31-GMT	Position: 148° / 1020 m Dir: West; Behavior: Slow travel	
		11:37:00 PDT	Blow	Inside / ND
		18:37-GMT	Position: 179° / 778 m Dir: West; Behavior: Slow travel	
	09	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:59:00 PDT	Blow	
		17:59-GMT	Position: 186° / 5027 m Dir: West; Behavior: Slow travel	
		11:10:00 PDT	Blow	
		18:10-GMT	Position: 200° / 3528 m Dir: West; Behavior: Slow travel	
		11:18:00 PDT	Blow	
		18:18-GMT	Position: 207° / 3528 m Dir: West; Behavior: Slow travel	
		11:29:00 PDT	Blow	Outside /
		18:29-GMT	Position: 222° / 3528 m Dir: West; Behavior: Slow travel	Outside
	10	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:34:00 PDT	Blow	
		18:34-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
		11:42:00 PDT	Blow	
		18:42-GMT	Position: 115° / 1922 m Dir: West; Behavior: Slow travel	
		11:51:00 PDT	Blow	
		18:51-GMT	Position: 133° / 1331 m Dir: West; Behavior: Slow travel	
		12:00:00 PDT	Blow	
		19:00-GMT	Position: 178° / 827 m Dir: West; Behavior: Slow travel	
		12:02:00 PDT	Blow	Inside / ND
		19:02-GMT	Position: 191° / 778 m Dir: West; Behavior: Slow travel	
	12	Fair - 2	<i>Er</i> Total 3 — 0 Calves at sighting	
		12:04:00 PDT	Blow	
		19:04-GMT	Position: 114° / 5027 m Dir: West; Behavior: Slow travel	
		12:14:00 PDT	Blow	
		19:14-GMT	Position: 115° / 3528 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau			Holly/Buoys
	Number	Time	Blow/Body		
		12:22:00 PDT	Blow		
		19:22-GMT	Position: 121° / 1922 m	Dir: West; Behavior: Slow travel	
		12:44:00 PDT	Blow	Images: mhs 3333, 3335	
		19:44-GMT	Position: 123° / 1331 m	Dir: West; Behavior: Slow travel	
		12:58:00 PDT	Blow		Inside /
		19:58-GMT	Position: 224° / 913 m	Dir: West; Behavior: Slow travel	Outside
13	Fair - 2	<i>Er</i> Total 3 — 0 Calves at sighting			
		12:21:00 PDT	Blow		
		19:21-GMT	Position: 155° / 5027 m	Dir: West; Behavior: Slow travel	
		12:41:00 PDT	Blow		
		19:41-GMT	Position: 157° / 5027 m	Dir: West; Behavior: Slow travel	
		12:55:00 PDT	Blow		
		19:55-GMT	Position: 161° / 3528 m	Dir: West; Behavior: Slow travel	
		13:17:00 PDT	Blow		
		20:17-GMT	Position: 175° / 3088 m	Dir: West; Behavior: Slow travel	
		13:27:00 PDT	Blow		
		20:27-GMT	Position: 190° / 3088 m	Dir: West; Behavior: Slow travel	
		13:45:00 PDT	Blow		Outside /
		20:45-GMT	Position: 216° / 3088 m	Dir: West; Behavior: Slow travel	Outside
15	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting			
		13:09:00 PDT	Blow		
		20:09-GMT	Position: 131° / 1922 m	Dir: West; Behavior: Slow travel	
		13:25:00 PDT	Blow		
		20:25-GMT	Position: 186° / 913 m	Dir: West; Behavior: Slow travel	
		13:29:00 PDT	Blow		
		20:29-GMT	Position: 220° / 913 m	Dir: West; Behavior: Slow travel	
		13:34:00 PDT	Blow		Inside /
		20:34-GMT	Position: 246° / 1331 m	Dir: West; Behavior: Slow travel	Outside
17	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting			
		14:09:00 PDT	Blow		
		21:09-GMT	Position: 185° / 2260 m	Dir: West; Behavior: Slow travel	
		14:14:00 PDT	Blow		
		21:14-GMT	Position: 203° / 2260 m	Dir: West; Behavior: Slow travel	
		14:27:00 PDT	Blow		Outside /
		21:27-GMT	Position: 229° / 3088 m	Dir: West; Behavior: Slow travel	Outside
20	Fair - 3	<i>Er</i> Total 2 — 0 Calves at sighting			
		15:36:00 PDT	Blow		
		22:36-GMT	Position: 112° / 2749 m	Dir: West; Behavior: Slow travel	
		15:46:00 PDT	Blow		
		22:46-GMT	Position: 126° / 1483 m	Dir: West; Behavior: Slow travel	
		15:47:00 PDT	Blow		
		22:47-GMT	Position: 128° / 1208 m	Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		15:59:00 PDT	Blow	
		22:59-GMT	Position: 209° / 735 m Dir: West; Behavior: Slow travel	
		16:10:00 PDT	Blow	Inside /
		23:10-GMT	Position: 273° / 1106 m Dir: West; Behavior: Slow travel	Through
	21	Fair - 4	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:44:00 PDT	Blow	
		22:44-GMT	Position: 206° / 827 m Dir: West; Behavior: Slow travel	
		16:10:00 PDT	Blow	Inside /
		23:10-GMT	Position: 267° / 2260 m Dir: West; Behavior: Slow travel	Outside
	23	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		16:34:00 PDT	ni	
		23:34-GMT	Position: 120° / 1483 m Dir: West; Behavior: Slow travel	
		16:43:00 PDT	Blow	
		23:43-GMT	Position: 132° / 778 m Dir: West; Behavior: Slow travel	
		16:48:00 PDT	Blow	
		23:48-GMT	Position: 152° / 883 m Dir: West; Behavior: Slow travel	
		16:55:00 PDT	Blow	
		23:55-GMT	Position: 193° / 539 m Dir: West; Behavior: Slow travel	
		16:56:00 PDT	Blow	Inside / ND
		23:56-GMT	Position: 202° / 661 m Dir: West; Behavior: Slow travel	
Mar 27	Total 16	Calves 0	Er Gray whale (northbound)	
Day 48 of 105				
	02	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:01:00 PDT	Blow	
		16:01-GMT	Position: 126° / 3528 m Dir: West; Behavior: Slow travel	
		9:13:00 PDT	Blow	
		16:13-GMT	Position: 139° / 2260 m Dir: West; Behavior: Slow travel	
		9:19:00 PDT	Blow	
		16:19-GMT	Position: 148° / 1922 m Dir: West; Behavior: Slow travel	
		9:28:00 PDT	Blow	ND / ND
		16:28-GMT	Position: 184° / 1106 m Dir: West; Behavior: Slow travel	
			<i>traveled along and through many D sp (SD#3+6) and vessel (V#8) traveled over whale when underwater</i>	
	16	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:53:00 PDT	Blow	
		17:53-GMT	Position: 123° / 778 m Dir: West; Behavior: Slow travel	
		11:06:00 PDT	Blow	Inside /
		18:06-GMT	Position: 247° / 778 m Dir: West; Behavior: Slow travel	Outside
	17	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:56:00 PDT	Blow	
		17:56-GMT	Position: 117° / 1674 m Dir: West; Behavior: Slow travel	
		11:01:00 PDT	Blow	
		18:01-GMT	Position: 128° / 946 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau			
	Number	Time	Blow/Body		Holly/Buoys
		11:03:00 PDT	Blow		
		18:03-GMT	Position: 132° / 735 m	Dir: West; Behavior: Slow travel	
		11:10:00 PDT	Blow		Inside / ND
		18:10-GMT	Position: 216° / 600 m	Dir: West; Behavior: Slow travel	
22	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting			
		12:15:00 PDT	Blow		
		19:15-GMT	Position: 111° / 1674 m	Dir: West; Behavior: Slow travel	
		12:17:00 PDT	Blow		
		19:17-GMT	Position: 113° / 1483 m	Dir: West; Behavior: Slow travel	
		12:22:00 PDT	Blow		
		19:22-GMT	Position: 120° / 946 m	Dir: West; Behavior: Slow travel	
		12:28:00 PDT	Blow		
		19:28-GMT	Position: 134° / 528 m	Dir: West; Behavior: Slow travel	
		12:32:00 PDT	Blow		
		19:32-GMT	Position: 177° / 382 m	Dir: West; Behavior: Slow travel	
		12:37:00 PDT	Body		
		19:37-GMT	Position: 235° / 334 m	Dir: West; Behavior: Slow travel	
		12:40:00 PDT	Blow		Inside / Inside
		19:40-GMT	Position: 263° / 678 m	Dir: West; Behavior: Slow travel	
24	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting			
		13:00:00 PDT	Blow		
		20:00-GMT	Position: 142° / 3528 m	Dir: West; Behavior: Slow travel	
		13:02:00 PDT	Blow		
		20:02-GMT	Position: 143° / 3528 m	Dir: West; Behavior: Slow travel	
		13:08:00 PDT	Blow		
		20:08-GMT	Position: 145° / 3088 m	Dir: West; Behavior: Slow travel	
		13:18:00 PDT	Blow		
		20:18-GMT	Position: 150° / 2749 m	Dir: West; Behavior: Slow travel	
		13:23:00 PDT	Blow		
		20:23-GMT	Position: 155° / 1922 m	Dir: West; Behavior: Slow travel • Rolling	
			<i>sharking</i>		
		13:26:00 PDT	Blow		
		20:26-GMT	Position: 161° / 1922 m	Dir: West; Behavior: Slow travel	
		13:30:00 PDT	Blow		
		20:30-GMT	Position: 171° / 1483 m	Dir: West; Behavior: Slow travel	
		13:32:00 PDT	Blow		
		20:32-GMT	Position: 179° / 1483 m	Dir: West; Behavior: Slow travel	
		13:34:00 PDT	Blow		
		20:34-GMT	Position: 141° / 1483 m	Dir: West; Behavior: Slow travel	
		13:40:00 PDT	Blow		
		20:40-GMT	Position: 209° / 1403 m	Dir: West; Behavior: Slow travel • Fluke	
		13:48:00 PDT	Blow		Inside / Outside
		20:48-GMT	Position: 241° / 1922 m	Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	25	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
		13:10:00 PDT	Blow	
		20:10-GMT	Position: 152° / 5027 m Dir: West; Behavior: Slow travel	
		13:14:00 PDT	Blow	
		20:14-GMT	Position: 152° / 5027 m Dir: West; Behavior: Slow travel	
		13:20:00 PDT	Blow	
		20:20-GMT	Position: 153° / 5027 m Dir: West; Behavior: Slow travel	
		13:27:00 PDT	Blow	
		20:27-GMT	Position: 156° / 5027 m Dir: West; Behavior: Slow travel	
		13:42:00 PDT	Blow	
		20:42-GMT	Position: 159° / 3528 m Dir: West; Behavior: Slow travel	
		14:02:00 PDT	Blow	
		21:02-GMT	Position: 171° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		14:10:00 PDT	Blow	
		21:10-GMT	Position: 179° / 3088 m Dir: West; Behavior: Slow travel	
		14:19:00 PDT	Blow	
		21:19-GMT	Position: 191° / 2749 m Dir: West; Behavior: Slow travel	
		14:25:00 PDT	Blow	
		21:25-GMT	Position: 194° / 3088 m Dir: West; Behavior: Slow travel	
		14:28:00 PDT	Blow	
		21:28-GMT	Position: 202° / 3088 m Dir: West; Behavior: Slow travel	
			<i>also blow at 184°</i>	
		14:31:00 PDT	Blow	
		21:31-GMT	Position: 203° / 3088 m Dir: West; Behavior: Slow travel	
		14:34:00 PDT	Blow	
		21:34-GMT	Position: 205° / 3088 m Dir: West; Behavior: Slow travel	
		14:37:00 PDT	Blow	
		21:37-GMT	Position: 217° / 3088 m Dir: West; Behavior: Slow travel	
		14:39:00 PDT	Blow	
		21:39-GMT	Position: 217° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
			<i>also blow at 206°/.25</i>	
		14:48:00 PDT	Blow	Outside /
		21:48-GMT	Position: 230° / 3528 m Dir: West; Behavior: Slow travel	Outside
	31	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:43:00 PDT	Blow	
		21:43-GMT	Position: 125° / 1483 m Dir: West; Behavior: Slow travel	
		14:45:00 PDT	Blow	
		21:45-GMT	Position: 126° / 1483 m Dir: West; Behavior: Slow travel	
		14:46:00 PDT	Blow	
		21:46-GMT	Position: 131° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
		14:54:00 PDT	Blow	
		21:54-GMT	Position: 184° / 574 m Dir: West; Behavior: Slow travel • Fluke	
		15:00:00 PDT	Blow	Inside / ND
		22:00-GMT	Position: 246° / 696 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
	32	Fair - 1	<i>Er</i> Total 5 — 0 Calves at sighting	
		15:04:00 PDT	Blow	
		22:04-GMT	Position: 170° / 3088 m Dir: West; Behavior: Slow travel	
		15:06:00 PDT	Blow	
		22:06-GMT	Position: 170° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		15:12:00 PDT	Blow	
		22:12-GMT	Position: 175° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		15:16:00 PDT	Blow	
		22:16-GMT	Position: 180° / 3088 m Dir: West; Behavior: Slow travel	
		15:21:00 PDT	Blow	
		22:21-GMT	Position: 184° / 3088 m Dir: West; Behavior: Slow travel	
		15:27:00 PDT	Blow	
		22:27-GMT	Position: 194° / 3088 m Dir: West; Behavior: Slow travel	
		15:32:00 PDT	Blow	
		22:32-GMT	Position: 204° / 3528 m Dir: West; Behavior: Slow travel	
		15:34:00 PDT	Blow	
		22:34-GMT	Position: 206° / 2749 m Dir: West; Behavior: Slow travel	
		15:41:00 PDT	Blow	
		22:41-GMT	Position: 214° / 2749 m Dir: West; Behavior: Slow travel	
		15:49:00 PDT	Blow	Outside /
		22:49-GMT	Position: 228° / 2749 m Dir: West; Behavior: Slow travel	Outside
Mar 28	Total 9 Calves 1	Er Gray whale (northbound)		
Day 49 of 105				
	07	Fair - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		10:16:00 PDT	Blow Images: mhs 3409-10	
		17:16-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
		10:20:00 PDT	Blow	
		17:20-GMT	Position: 111° / 1483 m Dir: West; Behavior: Slow travel	
		10:24:00 PDT	Blow	
		17:24-GMT	Position: 117° / 1331 m Dir: West; Behavior: Slow travel	
		10:27:00 PDT	Blow	
		17:27-GMT	Position: 119° / 1020 m Dir: West; Behavior: Slow travel	
		10:30:00 PDT	Blow	
		17:30-GMT	Position: 124° / 946 m Dir: West; Behavior: Slow travel	
		10:32:00 PDT	Blow	
		17:32-GMT	Position: 168° / 539 m Dir: West; Behavior: Slow travel	
		10:36:00 PDT	Blow	
		17:36-GMT	Position: 230° / 539 m Dir: West; Behavior: Slow travel	
		10:39:00 PDT	Body	Inside /
		17:39-GMT	Position: 254° / 913 m Dir: West; Behavior: Slow travel	Outside
	13	Fair - 0	<i>Er</i> Total 3 — 0 Calves at sighting	
		12:58:00 PDT	Blow	
		19:58-GMT	Position: 118° / 2260 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:06:00 PDT	Blow	
		20:06-GMT	Position: 134° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
		13:11:00 PDT	Blow	
		20:11-GMT	Position: 150° / 1208 m Dir: West; Behavior: Slow travel • Fluke	
		13:14:00 PDT	Blow	
		20:14-GMT	Position: 164° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		13:18:00 PDT	Blow	
		20:18-GMT	Position: 189° / 913 m Dir: West; Behavior: Slow travel	
		13:21:00 PDT	Blow	
		20:21-GMT	Position: 221° / 913 m Dir: West; Behavior: Slow travel • Fluke	
		13:23:00 PDT	Blow	
		20:23-GMT	Position: 228° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
		13:26:00 PDT	Blow Images: mhs 3444-58	Inside / Outside
		20:26-GMT	Position: 242° / 1331 m Dir: West; Behavior: Slow travel	
	16	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:32:00 PDT	Blow	
		21:32-GMT	Position: 151° / 296 m Dir: West; Behavior: Slow travel <i>tip from passerby - small whale - juvenile, likely yearling</i>	
		14:35:00 PDT	Blow	
		21:35-GMT	Position: 199° / 269 m Dir: West; Behavior: Slow travel	
		14:38:00 PDT	Blow	
		21:38-GMT	Position: 243° / 400 m Dir: West; Behavior: Slow travel	
		14:39:00 PDT	Blow	
		21:39-GMT	Position: 257° / 489 m Dir: West; Behavior: Slow travel	
		14:43:00 PDT	Blow	Inside / Inside
		21:43-GMT	Position: 275° / 946 m Dir: West; Behavior: Slow travel	
	18	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting Disappeared	
		15:00:00 PDT	Blow	ND / ND
		22:00-GMT	Position: 188° / 1106 m Dir: West; Behavior: Slow travel	
	21	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		16:13:00 PDT	Blow	
		23:13-GMT	Position: 226° / 2260 m Dir: West; Behavior: Slow travel	
		16:16:00 PDT	Blow	Inside / Outside
		23:16-GMT	Position: 233° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
Mar 29	Total 13	Calves 0	Er Gray whale (northbound)	
Day 50 of 105				
	05	Good - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		10:52:00 PDT	Blow	
		17:52-GMT	Position: 121° / 3528 m Dir: West; Behavior: Slow travel	
		11:17:00 PDT	Blow	
		18:17-GMT	Position: 136° / 3528 m Dir: West; Behavior: Slow travel	
		11:24:00 PDT	Blow	
		18:24-GMT	Position: 141° / 3088 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau			Holly/Buoys
	Number	Time	Blow/Body		
		11:27:00 PDT	Blow		
		18:27-GMT	Position: 144° / 3088 m	Dir: West; Behavior: Slow travel	
		11:48:00 PDT	Blow		
		18:48-GMT	Position: 185° / 2260 m	Dir: West; Behavior: Slow travel	
		11:53:00 PDT	Blow		ND / ND
		18:53-GMT	Position: 202° / 2749 m	Dir: West; Behavior: Slow travel	
		<i>between 11:40 + 11:53 Sightings S#5 + S#6 disappeared AND sighting SW#7 ULW disappeared - @ 12:01 Sighting S#8 sighted inside Campus Pt, where we tracked it thru buoys at 12:30.</i>			
	06	Good - 2	<i>Er</i> Total 2 — 0 Calves at sighting		
		11:21:00 PDT	Blow		
		18:21-GMT	Position: 114° / 2260 m	Dir: West; Behavior: Slow travel	
		11:28:00 PDT	Blow		
		18:28-GMT	Position: 122° / 2260 m	Dir: West; Behavior: Slow travel	
		11:35:00 PDT	Blow		
		18:35-GMT	Position: 135° / 1331 m	Dir: West; Behavior: Slow travel	
		11:39:00 PDT	Blow		
		18:39-GMT	Position: 145° / 1208 m	Dir: West; Behavior: Slow travel	
		11:41:00 PDT	Blow		ND / ND
		18:41-GMT	Position: 152° / 1020 m	Dir: West; Behavior: Slow travel	
	08	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		12:01:00 PDT	Blow		
		19:01-GMT	Position: 114° / 1922 m	Dir: West; Behavior: Slow travel	
		12:05:00 PDT	Blow		
		19:05-GMT	Position: 116° / 1483 m	Dir: West; Behavior: Slow travel	
		12:09:00 PDT	Blow		
		19:09-GMT	Position: 123° / 1106 m	Dir: West; Behavior: Slow travel	
		12:17:00 PDT	Blow		
		19:17-GMT	Position: 133° / 661 m	Dir: West; Behavior: Slow travel	
		12:19:00 PDT	Blow		
		19:19-GMT	Position: 156° / 412 m	Dir: West; Behavior: Slow travel	
		12:23:00 PDT	Blow		
		19:23-GMT	Position: 231° / 489 m	Dir: West; Behavior: Slow travel	
		12:30:00 PDT	Blow		Inside / Through
		19:30-GMT	Position: 271° / 778 m	Dir: West; Behavior: Slow travel	
	11	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		12:51:00 PDT	Blow		
		19:51-GMT	Position: 125° / 3528 m	Dir: West; Behavior: Slow travel	
		13:15:00 PDT	Blow		
		20:15-GMT	Position: 136° / 2749 m	Dir: West; Behavior: Slow travel	
		13:28:00 PDT	Blow		
		20:28-GMT	Position: 152° / 1331 m	Dir: West; Behavior: Slow travel	
		13:34:00 PDT	Blow		
		20:34-GMT	Position: 167° / 1331 m	Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:37:00 PDT	Blow	
		20:37-GMT	Position: 178° / 1208 m Dir: West; Behavior: Slow travel	
		13:41:00 PDT	Blow	
		20:41-GMT	Position: 188° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		13:54:00 PDT	Blow	Inside /
		20:54-GMT	Position: 254° / 1331 m Dir: West; Behavior: Slow travel	Outside
	13	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		13:19:00 PDT	Blow	
		20:19-GMT	Position: 163° / 3088 m Dir: West; Behavior: Slow travel	
		13:30:00 PDT	Blow	
		20:30-GMT	Position: 167° / 2749 m Dir: West; Behavior: Slow travel	
		13:59:00 PDT	Blow	Inside /
		20:59-GMT	Position: 245° / 2260 m Dir: West; Behavior: Slow travel • Fluke	Outside
	15	Good - 1	<i>Er</i> Total 5 — 0 Calves at sighting	
		14:19:00 PDT	Blow	
		21:19-GMT	Position: 185° / 2749 m Dir: West; Behavior: Slow travel	
		14:23:00 PDT	Blow	
		21:23-GMT	Position: 190° / 3088 m Dir: West; Behavior: Slow travel	
		14:26:00 PDT	Blow	
		21:26-GMT	Position: 197° / 2749 m Dir: West; Behavior: Slow travel	
		14:35:00 PDT	Blow	Outside /
		21:35-GMT	Position: 214° / 3528 m Dir: West; Behavior: Slow travel	Outside
	19	Good - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:06:00 PDT	Blow	
		22:06-GMT	Position: 143° / 388 m Dir: West; Behavior: Slow travel	
		15:10:00 PDT	Blow	
		22:10-GMT	Position: 207° / 275 m Dir: West; Behavior: Slow travel	
		15:15:00 PDT	Blow	
		22:15-GMT	Position: 274° / 1020 m Dir: West; Behavior: Slow travel	
		15:19:00 PDT	Blow	Inside / Inside
		22:19-GMT	Position: 296° / 1200 m Dir: West; Behavior: Slow travel	
Mar 30	Total 1 Calves 0	Er Gray whale (northbound)		
Day 51 of 105				
	01	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:17:00 PDT	Blow	Inside / ND
		16:17-GMT	Position: 241° / 600 m Dir: West; Behavior: Slow travel	
			<i>likely a yearling</i>	
Mar 31	Total 4 Calves 0	Er Gray whale (northbound)		
Day 52 of 105				
	03	Poor - 4	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:41:00 PDT	Blow	
		16:41-GMT	Position: 124° / 1922 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		9:46:00 PDT	Blow	
		16:46-GMT	Position: 133° / 1674 m Dir: West; Behavior: Slow travel	
		9:50:00 PDT	Blow	
		16:50-GMT	Position: 141° / 1331 m Dir: West; Behavior: Slow travel	
		9:52:00 PDT	Blow	
		16:52-GMT	Position: 148° / 1106 m Dir: West; Behavior: Slow travel	
		9:57:00 PDT	Blow	
		16:57-GMT	Position: 179° / 778 m Dir: West; Behavior: Slow travel	
		9:59:00 PDT	Blow	
		16:59-GMT	Position: 189° / 778 m Dir: West; Behavior: Slow travel	
		10:04:00 PDT	Blow	
		17:04-GMT	Position: 224° / 778 m Dir: West; Behavior: Slow travel	
		10:06:00 PDT	Blow	
		17:06-GMT	Position: 231° / 946 m Dir: West; Behavior: Slow travel	
		10:18:00 PDT	Blow Images: mhs 3553-9, 3565-84	Inside / Outside
		17:18-GMT	Position: 249° / 1674 m Dir: West; Behavior: Slow travel	
	09	Poor - 4	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:11:00 PDT	Blow	
		18:11-GMT	Position: 134° / 1106 m Dir: West; Behavior: Slow travel	
		11:22:00 PDT	Blow	
		18:22-GMT	Position: 232° / 946 m Dir: West; Behavior: Slow travel	
		11:23:00 PDT	Blow	
		18:23-GMT	Position: 236° / 778 m Dir: West; Behavior: Slow travel • Fluke	
		11:30:00 PDT	Blow	Inside / Outside
		18:30-GMT	Position: 263° / 1483 m Dir: West; Behavior: Slow travel	
	10	Poor - 4	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:48:00 PDT	Blow	
		18:48-GMT	Position: 118° / 1922 m Dir: West; Behavior: Slow travel	
		11:55:00 PDT	Blow	
		18:55-GMT	Position: 143° / 574 m Dir: West; Behavior: Slow travel	
		12:02:00 PDT	Blow	Inside / ND
		19:02-GMT	Position: 211° / 661 m Dir: West; Behavior: Slow travel	

Apr 01 Total 7 Calves 0
Day 53 of 105

Er Gray whale (northbound)

01	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting
	9:04:00 PDT	Blow
	16:04-GMT	Position: 114° / 1922 m Dir: West; Behavior: Slow travel • Fluke
	9:13:00 PDT	Blow
	16:13-GMT	Position: 128° / 883 m Dir: West; Behavior: Slow travel • Fluke
	9:20:00 PDT	Blow
	16:20-GMT	Position: 186° / 412 m Dir: West; Behavior: Slow travel
	9:24:00 PDT	Blow
	16:24-GMT	Position: 230° / 489 m Dir: West; Behavior: Slow travel

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		9:33:00 PDT 16:33-GMT	Blow Position: 270° / 1331 m Dir: West; Behavior: Slow travel	Images: mhs 3669-70, 3676-9 Inside / Through
04	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
		9:52:00 PDT 16:52-GMT	Blow Position: 114° / 3528 m Dir: West; Behavior: Slow travel	
		9:57:00 PDT 16:57-GMT	Blow Position: 116° / 2749 m Dir: West; Behavior: Slow travel	
		10:05:00 PDT 17:05-GMT	Blow Position: 121° / 1922 m Dir: West; Behavior: Slow travel	
		10:06:00 PDT 17:06-GMT	Blow Position: 124° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
		10:14:00 PDT 17:14-GMT	Blow Position: 137° / 2260 m Dir: West; Behavior: Slow travel	
		10:15:00 PDT 17:15-GMT	Blow Position: 137° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		10:23:00 PDT 17:23-GMT	Blow Position: 155° / 1674 m Dir: West; Behavior: Slow travel	
		10:25:00 PDT 17:25-GMT	Blow Position: 158° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
		10:31:00 PDT 17:31-GMT	Blow Position: 186° / 1674 m Dir: West; Behavior: Slow travel	ND / ND
07	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting		
		10:08:00 PDT 17:08-GMT	Blow Position: 122° / 3528 m Dir: West; Behavior: Slow travel	
		10:10:00 PDT 17:10-GMT	Blow Position: 123° / 3528 m Dir: West; Behavior: Slow travel	
		10:19:00 PDT 17:19-GMT	Blow Position: 128° / 3528 m Dir: West; Behavior: Slow travel	
		10:26:00 PDT 17:26-GMT	Blow Position: 130° / 3528 m Dir: West; Behavior: Slow travel	
		10:32:00 PDT 17:32-GMT	Blow Position: 134° / 3528 m Dir: West; Behavior: Slow travel	
		10:33:00 PDT 17:33-GMT	Blow Position: 132° / 3528 m Dir: West; Behavior: Slow travel	
		10:34:00 PDT 17:34-GMT	Blow Position: 134° / 3528 m Dir: West; Behavior: Slow travel	
		10:40:00 PDT 17:40-GMT	Blow Position: 139° / 2749 m Dir: West; Behavior: Slow travel	
		10:41:00 PDT 17:41-GMT	Blow Position: 141° / 2749 m Dir: West; Behavior: Slow travel	
		10:49:00 PDT 17:49-GMT	Blow Position: 144° / 2260 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:55:00 PDT	Blow	
		17:55-GMT	Position: 159° / 1922 m Dir: West; Behavior: Slow travel	
		11:00:00 PDT	Blow	
		18:00-GMT	Position: 174° / 2260 m Dir: West; Behavior: Slow travel	
		11:33:00 PDT	Blow	ND / Outside
		18:33-GMT	Position: 250° / 3528 m Dir: West; Behavior: Slow travel	
	19	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:12:00 PDT	Body	
		20:12-GMT	Position: 115° / 2749 m Dir: West; Behavior: Slow travel	
		13:21:00 PDT	Blow	
		20:21-GMT	Position: 123° / 1208 m Dir: West; Behavior: Slow travel	
		13:33:00 PDT	Blow	
		20:33-GMT	Position: 182° / 528 m Dir: West; Behavior: Slow travel	
		13:35:00 PDT	Blow	
		20:35-GMT	Position: 196° / 528 m Dir: West; Behavior: Slow travel	
		13:42:00 PDT	Blow	
		20:42-GMT	Position: 246° / 946 m Dir: West; Behavior: Slow travel	
		13:47:00 PDT	Blow	Inside / Through
		20:47-GMT	Position: 266° / 1331 m Dir: West; Behavior: Slow travel	
	21	Fair - 4	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:25:00 PDT	Blow	
		21:25-GMT	Position: 107° / 3088 m Dir: East; Behavior: Slow travel	
		14:32:00 PDT	Blow	
		21:32-GMT	Position: 104° / 3088 m Dir: West; Behavior: Slow travel	
Apr 02	Total 7 Calves 1	Er Gray whale (northbound)		
Day 54 of 105				
	05	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:18:00 PDT	Blow	
		16:18-GMT	Position: 156° / 2749 m Dir: West; Behavior: Slow travel	
		9:25:00 PDT	Blow	
		16:25-GMT	Position: 162° / 2260 m Dir: West; Behavior: Slow travel	
		9:30:00 PDT	Blow	
		16:30-GMT	Position: 177° / 1922 m Dir: West; Behavior: Slow travel	
		9:31:00 PDT	Blow	
		16:31-GMT	Position: 182° / 1922 m Dir: West; Behavior: Slow travel	
			<i>next to seep</i>	
		9:39:00 PDT	ni	
		16:39-GMT	Position: 206° / 1483 m Dir: West; Behavior: Slow travel	
		9:45:00 PDT	Blow	
		16:45-GMT	Position: 225° / 1674 m Dir: West; Behavior: Slow travel	
		9:50:00 PDT	Blow	Inside / Outside
		16:50-GMT	Position: 240° / 1922 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	16	Good - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		12:15:00 PDT	Blow	
		19:15-GMT	Position: 121° / 1106 m Dir: West; Behavior: Slow travel	
		12:20:00 PDT	Body	
		19:20-GMT	Position: 145° / 528 m Dir: West; Behavior: Slow travel	
		12:22:00 PDT	Body	
		19:22-GMT	Position: 155° / 471 m Dir: West; Behavior: Slow travel	
		12:26:00 PDT	Body	
		19:26-GMT	Position: 217° / 388 m Dir: West; Behavior: Slow travel • Fluke	
		12:28:00 PDT	Blow	
		19:28-GMT	Position: 243° / 489 m Dir: West; Behavior: Slow travel	
		12:32:00 PDT	Body	
		19:32-GMT	Position: 267° / 827 m Dir: West; Behavior: Slow travel	
		12:35:00 PDT	Blow Images: mhs 3702-5	Inside /
		19:35-GMT	Position: 281° / 1106 m Dir: West; Behavior: Slow travel	Through
			<i>did not see calf at first - then frequent surfacings. Saw head three times. No calf sheet.</i>	
	18	Good - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		12:46:00 PDT	Blow	
		19:46-GMT	Position: 128° / 1922 m Dir: West; Behavior: Slow travel	
		12:52:00 PDT	Blow	
		19:52-GMT	Position: 137° / 1922 m Dir: West; Behavior: Slow travel	
		12:59:00 PDT	Blow	
		19:59-GMT	Position: 153° / 1331 m Dir: West; Behavior: Slow travel	
		13:18:00 PDT	Blow	Inside /
		20:18-GMT	Position: 237° / 1403 m Dir: West; Behavior: Slow travel	Outside
			<i>with sea lions</i>	
	22	Good - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:01:00 PDT	Blow	
		21:01-GMT	Position: 132° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		14:22:00 PDT	Blow	
		21:22-GMT	Position: 140° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		14:28:00 PDT	Blow	
		21:28-GMT	Position: 146° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		14:34:00 PDT	Blow	
		21:34-GMT	Position: 153° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		14:39:00 PDT	Blow	
		21:39-GMT	Position: 166° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		14:43:00 PDT	Blow	
		21:43-GMT	Position: 181° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		14:48:00 PDT	Blow	
		21:48-GMT	Position: 197° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
		14:52:00 PDT	Blow	
		21:52-GMT	Position: 212° / 2260 m Dir: West; Behavior: Slow travel • Fluke	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		14:57:00 PDT	Blow	
		21:57-GMT	Position: 222° / 2260 m Dir: West; Behavior: Slow travel	
		15:03:00 PDT	Blow	Inside /
		22:03-GMT	Position: 235° / 3088 m Dir: West; Behavior: Slow travel • Fluke	Outside
Apr 03 Day 55 of 105	Total 3 Calves 1	Er Gray whale (northbound)		
	15	Fair - 2	<i>Er</i> Total 3 — 1 Calf at sighting	
		11:59:00 PDT	Blow	
		18:59-GMT	Position: 109° / 3088 m Dir: West; Behavior: Slow travel	
		12:05:00 PDT	Blow	
		19:05-GMT	Position: 112° / 2260 m Dir: West; Behavior: Slow travel	
		12:08:00 PDT	Blow	
		19:08-GMT	Position: 113° / 1922 m Dir: West; Behavior: Slow travel	
		12:12:00 PDT	Blow	
		19:12-GMT	Position: 118° / 1674 m Dir: West; Behavior: Slow travel	
		12:15:00 PDT	Blow	
		19:15-GMT	Position: 124° / 1331 m Dir: West; Behavior: Slow travel	
		12:20:00 PDT	Blow	
		19:20-GMT	Position: 134° / 1020 m Dir: West; Behavior: Slow travel	
		12:22:00 PDT	Blow	
		19:22-GMT	Position: 147° / 827 m Dir: West; Behavior: Slow travel	
		12:23:00 PDT	Body	
		19:23-GMT	Position: 154° / 696 m Dir: West; Behavior: Slow travel	
		12:26:00 PDT	Breach	
		19:26-GMT	Position: 174° / 600 m Dir: West; Behavior: Slow travel • Breach	
			<i>4 breaches by calf</i>	
		12:31:00 PDT	Body	
		19:31-GMT	Position: 221° / 539 m Dir: West; Behavior: Slow travel	
			<i>with Zc</i>	
		12:34:00 PDT	Blow	
		19:34-GMT	Position: 247° / 574 m Dir: West; Behavior: Slow travel	
		12:35:00 PDT	Blow	
		19:35-GMT	Position: 261° / 600 m Dir: West; Behavior: Slow travel	
		12:41:00 PDT	Blow Images: mhs 3843-55	Inside / Inside
		19:41-GMT	Position: 274° / 946 m Dir: West; Behavior: Slow travel	

Apr 04 Day 56 of 105	Total 8 Calves 2	Er Gray whale (northbound)		
	05	Poor - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:46:00 PDT	Blow	
		17:46-GMT	Position: 226° / 3088 m Dir: West; Behavior: Slow travel	
			<i>Condor Express on whales</i>	
		10:50:00 PDT	Blow	Outside /
		17:50-GMT	Position: 232° / 3088 m Dir: West; Behavior: Slow travel	Outside

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting	Quality - Beau	Blow/Body	Holly/Buoys
	Number	Time		
06	Fair - 1	<i>Er</i> Total 2 — 1 Calf at sighting		
	11:04:00 PDT	Blow	Images: mhs 3862-77; 3879-80	
	18:04-GMT	Position: 98° / 3088 m Dir: West; Behavior: Slow travel		
	<i>glued together - calf made more frequent surfacings - saw from Sands - whales together heading towards Ellwood Pier</i>			
	11:11:00 PDT	Blow		
	18:11-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel		
	11:16:00 PDT	Blow		
	18:16-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel		
	11:25:00 PDT	Blow		
	18:25-GMT	Position: 115° / 1922 m Dir: West; Behavior: Slow travel		
	11:29:00 PDT	Blow		
	18:29-GMT	Position: 120° / 1403 m Dir: West; Behavior: Slow travel		
	11:31:00 PDT	Blow		
	18:31-GMT	Position: 124° / 1020 m Dir: West; Behavior: Slow travel		
	11:34:00 PDT	Blow		
	18:34-GMT	Position: 131° / 883 m Dir: West; Behavior: Slow travel		
	11:36:00 PDT	Blow		
	18:36-GMT	Position: 136° / 696 m Dir: West; Behavior: Slow travel		
	11:40:00 PDT	Blow		
	18:40-GMT	Position: 178° / 447 m Dir: West; Behavior: Slow travel		
	11:45:00 PDT	Blow		
	18:45-GMT	Position: 212° / 447 m Dir: West; Behavior: Slow travel		
	11:48:00 PDT	Blow		
	18:48-GMT	Position: 244° / 539 m Dir: West; Behavior: Slow travel		
	11:50:00 PDT	Body		
	18:50-GMT	Position: 262° / 678 m Dir: West; Behavior: Slow travel		
	11:57:00 PDT	Blow	Images: mhs 3862-3877	Inside / Inside
	18:57-GMT	Position: 293° / 735 m Dir: West; Behavior: Slow travel		
10	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting		
	13:18:00 PDT	Blow		
	20:18-GMT	Position: 103° / 3528 m Dir: West; Behavior: Slow travel		
	13:27:00 PDT	Blow		
	20:27-GMT	Position: 107° / 3088 m Dir: West; Behavior: Slow travel		
	13:40:00 PDT	Blow		
	20:40-GMT	Position: 117° / 2260 m Dir: West; Behavior: Slow travel		
	13:48:00 PDT	Blow		
	20:48-GMT	Position: 123° / 1483 m Dir: West; Behavior: Slow travel		
	13:55:00 PDT	Blow		
	20:55-GMT	Position: 152° / 696 m Dir: West; Behavior: Slow travel		
	13:58:00 PDT	Body		
	20:58-GMT	Position: 176° / 539 m Dir: West; Behavior: Slow travel		
	13:59:00 PDT	Blow		
	20:59-GMT	Position: 187° / 508 m Dir: West; Behavior: Slow travel		

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		14:03:00 PDT	Blow	
		21:03-GMT	Position: 212° / 388 m Dir: West; Behavior: Slow travel	
		14:06:00 PDT	Blow	Inside / ND
		21:06-GMT	Position: 242° / 550 m Dir: West; Behavior: Slow travel	
	16	Fair - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
		15:56:00 PDT	Blow	
		22:56-GMT	Position: 189° / 696 m Dir: West; Behavior: Slow travel	
		16:00:00 PDT	Blow	
		23:00-GMT	Position: 236° / 661 m Dir: West; Behavior: Slow travel	
		16:05:00 PDT	Blow	Inside / Outside
		23:05-GMT	Position: 260° / 1208 m Dir: West; Behavior: Slow travel	
	19	Fair - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:44:00 PDT	Blow Images: mhs 3898-3935	
		23:44-GMT	Position: 126° / 696 m Dir: West; Behavior: Slow travel	
			<i>First saw disturbance in water next to kelp - very slow -deliberate -very close to each other all the way</i>	
		16:51:00 PDT	Body	
		23:51-GMT	Position: 171° / 508 m Dir: West; Behavior: Slow travel	
		16:55:00 PDT	Body	
		23:55-GMT	Position: 214° / 382 m Dir: West; Behavior: Slow travel	
		16:59:00 PDT	Body	
		23:59-GMT	Position: 252° / 330 m Dir: West; Behavior: Slow travel	
		17:01:00 PDT	Body	Inside / Inside
		0:01	Position: 271° / 574 m Dir: West; Behavior: Slow travel	

Apr 06 Total 6 Calves 3
Day 58 of 105

Er Gray whale (northbound)

	01	Fair - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		9:26:00 PDT	Blow Images: none	
		16:26-GMT	Position: 116° / 1403 m Dir: West; Behavior: Slow travel	
			<i>Started slowly through kelp (meandering) - average speed across Point - watched duo at Sands - remained for a long time</i>	
		9:33:00 PDT	Blow	
		16:33-GMT	Position: 121° / 913 m Dir: West; Behavior: Slow travel	
		9:36:00 PDT	Blow	
		16:36-GMT	Position: 116° / 778 m Dir: East; Behavior: Slow travel	
			<i>meandering</i>	
		9:39:00 PDT	Blow	
		16:39-GMT	Position: 127° / 574 m Dir: West; Behavior: Slow travel	
		9:42:00 PDT	Body	
		16:42-GMT	Position: 155° / 400 m Dir: West; Behavior: Slow travel	
		9:44:00 PDT	Blow	
		16:44-GMT	Position: 184° / 377 m Dir: West; Behavior: Slow travel	
		9:47:00 PDT	Blow	
		16:47-GMT	Position: 219° / 382 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		9:50:00 PDT	Blow	
		16:50-GMT	Position: 252° / 600 m Dir: West; Behavior: Slow travel	
		9:54:00 PDT	Blow	
		16:54-GMT	Position: 281° / 661 m Dir: West; Behavior: Slow travel	
		9:57:00 PDT	Blow	
		16:57-GMT	Position: 281° / 661 m Dir: West; Behavior: Slow travel	
		10:01:00 PDT	Blow	Inside / Inside
		17:01-GMT	Position: 292° / 735 m Dir: West; Behavior: Slow travel	
	03	Good - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		10:18:00 PDT	Blow Images: mhs 3936-58	
		17:18-GMT	Position: 107° / 2260 m Dir: West; Behavior: Slow travel	
			<i>Started in kelp - calf surfaced frequently in front of Point</i>	
			<i>MHS: One of the best cow/calf pairs - no events - no real picture moments - just slow, gentle, intimate contact as they passed Counter Point</i>	
		10:22:00 PDT	Blow	
		17:22-GMT	Position: 113° / 1922 m Dir: West; Behavior: Slow travel	
		10:27:00 PDT	Blow	
		17:27-GMT	Position: 112° / 1483 m Dir: West; Behavior: Slow travel	
		10:36:00 PDT	Blow	
		17:36-GMT	Position: 116° / 1208 m Dir: West; Behavior: Slow travel	
		10:40:00 PDT	Blow	
		17:40-GMT	Position: 119° / 913 m Dir: West; Behavior: Slow travel	
		10:42:00 PDT	Blow	
		17:42-GMT	Position: 125° / 735 m Dir: West; Behavior: Slow travel	
		10:51:00 PDT	Body	
		17:51-GMT	Position: 134° / 489 m Dir: West; Behavior: Slow travel	
		10:52:00 PDT	Body	
		17:52-GMT	Position: 153° / 489 m Dir: West; Behavior: Slow travel	
		10:53:00 PDT	Blow	
		17:53-GMT	Position: 161° / 489 m Dir: West; Behavior: Slow travel	
		10:55:00 PDT	Blow	
		17:55-GMT	Position: 185° / 412 m Dir: West; Behavior: Slow travel	
		10:59:00 PDT	Blow	
		17:59-GMT	Position: 222° / 412 m Dir: West; Behavior: Slow travel	
		11:03:00 PDT	Body	
		18:03-GMT	Position: 258° / 661 m Dir: West; Behavior: Slow travel	
		11:07:00 PDT	Body	Inside / Inside
		18:07-GMT	Position: 277° / 696 m Dir: West; Behavior: Slow travel	
	28	Excellent - 1	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:34:00 PDT	Body Images: none	
		23:34-GMT	Position: 122° / 1674 m Dir: West; Behavior: Slow travel	
			<i>not many blows - confronted by Zc + Tts - saw calf only twice - once alone - once "attached" to mom</i>	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		16:43:00 PDT	Body	
		23:43-GMT	Position: 163° / 946 m Dir: West; Behavior: Slow travel	
		16:44:00 PDT	Body	
		23:44-GMT	Position: 179° / 574 m Dir: West; Behavior: Slow travel	
		16:51:00 PDT	Blow	
		23:51-GMT	Position: 231° / 539 m Dir: West; Behavior: Slow travel	
		16:57:00 PDT	Blow	Inside / ND
		23:57-GMT	Position: 253° / 1331 m Dir: West; Behavior: Slow travel	
Apr 09	Total 9 Calves 0	Er Gray whale (northbound)		
Day 61 of 105				
	01	Poor - 4	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:11:00 PDT	Blow	
		16:11-GMT	Position: 132° / 1106 m Dir: West; Behavior: Slow travel	
		9:13:00 PDT	Blow	
		16:13-GMT	Position: 152° / 946 m Dir: West; Behavior: Slow travel • Fluke	
		9:21:00 PDT	Blow	Inside /
		16:21-GMT	Position: 235° / 827 m Dir: West; Behavior: Slow travel	Outside
	07	Poor - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:04:00 PDT	Blow	
		17:04-GMT	Position: 126° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
			<i>did not appear to be cow/calf pair as Condor reported</i>	
		10:11:00 PDT	Blow	
		17:11-GMT	Position: 152° / 1331 m Dir: West; Behavior: Slow travel	
		10:21:00 PDT	Blow	
		17:21-GMT	Position: 210° / 1483 m Dir: West; Behavior: Slow travel	
		10:30:00 PDT	Blow	Inside /
		17:30-GMT	Position: 245° / 2260 m Dir: West; Behavior: Slow travel	Outside
	10	Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		11:09:00 PDT	Blow	
		18:09-GMT	Position: 121° / 1483 m Dir: West; Behavior: Slow travel	
			<i>see Calf sheet - unlikely cow/calf</i>	
		11:12:00 PDT	Blow	
		18:12-GMT	Position: 127° / 1331 m Dir: West; Behavior: Slow travel	
		11:19:00 PDT	Blow	
		18:19-GMT	Position: 167° / 827 m Dir: West; Behavior: Slow travel • Fluke	
		11:28:00 PDT	Blow	
		18:28-GMT	Position: 224° / 883 m Dir: West; Behavior: Slow travel	
		11:32:00 PDT	Body	Inside /
		18:32-GMT	Position: 245° / 946 m Dir: West; Behavior: Slow travel	Outside
	12	Fair - 2	<i>Er</i>	
		11:28:00 PDT	Blow	
		18:28-GMT	Position: 126° / 1208 m Dir: West; Behavior: Slow travel	
		12:24:00 PDT	Blow	
		19:24-GMT	Position: 120° / 1483 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:34:00 PDT	Blow	
		19:34-GMT	Position: 143° / 913 m Dir: West; Behavior: Slow travel	
		12:37:00 PDT	Blow	
		19:37-GMT	Position: 162° / 735 m Dir: West; Behavior: Slow travel	
		12:41:00 PDT	Blow	
		19:41-GMT	Position: 198° / 508 m Dir: West; Behavior: Slow travel	
			<i>one blow and down</i>	
		12:46:00 PDT	Blow	
		19:46-GMT	Position: 226° / 696 m Dir: West; Behavior: Slow travel	
		12:47:00 PDT	Blow	Inside / ND
		19:47-GMT	Position: 233° / 661 m Dir: West; Behavior: Slow travel	
	19	Fair - 4	<i>Er</i> Total 2 — 0 Calves at sighting	
		14:09:00 PDT	Blow	
		21:09-GMT	Position: 154° / 1331 m Dir: West; Behavior: Slow travel	
		14:16:00 PDT	Blow	
		21:16-GMT	Position: 190° / 946 m Dir: West; Behavior: Slow travel	
		14:22:00 PDT	Blow	Inside / Outside
		21:22-GMT	Position: 231° / 1208 m Dir: West; Behavior: Slow travel	
Apr 10	Total 3 Calves 0	Er Gray whale (northbound)		
Day 62 of 105				
	10	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:00:00 PDT	Blow	
		18:00-GMT	Position: 125° / 2260 m Dir: West; Behavior: Slow travel	
		11:07:00 PDT	Blow	
		18:07-GMT	Position: 163° / 946 m Dir: West; Behavior: Slow travel	
		11:10:00 PDT	Blow	
		18:10-GMT	Position: 202° / 661 m Dir: West; Behavior: Slow travel	
		11:12:00 PDT	Blow	Inside / ND
		18:12-GMT	Position: 234° / 946 m Dir: West; Behavior: Slow travel	
	11	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:02:00 PDT	Blow	
		18:02-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
		11:04:00 PDT	Blow	
		18:04-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
		11:07:00 PDT	Blow	
		18:07-GMT	Position: 105° / 2749 m Dir: West; Behavior: Slow travel	
		11:18:00 PDT	Blow	
		18:18-GMT	Position: 115° / 1483 m Dir: West; Behavior: Slow travel	
		11:26:00 PDT	Blow	
		18:26-GMT	Position: 143° / 883 m Dir: West; Behavior: Slow travel	
		11:29:00 PDT	Blow	
		18:29-GMT	Position: 164° / 678 m Dir: West; Behavior: Slow travel	
		11:33:00 PDT	Blow	
		18:33-GMT	Position: 197° / 661 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		11:34:00 PDT	Body	Inside / ND
		18:34-GMT	Position: 207° / 678 m Dir: West; Behavior: Slow travel	
	13	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		11:33:00 PDT	Blow	
		18:33-GMT	Position: 110° / 2260 m Dir: West; Behavior: Slow travel	
		11:38:00 PDT	Blow	
		18:38-GMT	Position: 117° / 1922 m Dir: West; Behavior: Slow travel	
		11:44:00 PDT	Blow	
		18:44-GMT	Position: 139° / 1106 m Dir: West; Behavior: Slow travel	
		11:50:00 PDT	Body	
		18:50-GMT	Position: 190° / 661 m Dir: West; Behavior: Slow travel	
		11:56:00 PDT	Blow	Inside /
		18:56-GMT	Position: 247° / 946 m Dir: West; Behavior: Slow travel	Outside
Apr 12	Total 4 Calves 1	Er Gray whale (northbound)		
Day 64 of 105				
	02	Good - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		9:17:00 PDT	Blow Images: mhs 4207-13	
		16:17-GMT	Position: 147° / 412 m Dir: West; Behavior: Slow travel	
		<i>Saw whales "footprints"...</i>		
		<i>Whales arrived in front of us - slow, deliberate travel - calf switching sides, surfacing frequently - cow very large whale - Katie Smith went to Sands, but did not see whales</i>		
		9:20:00 PDT	Blow	
		16:20-GMT	Position: 211° / 338 m Dir: West; Behavior: Slow travel	
		9:22:00 PDT	Blow	
		16:22-GMT	Position: 236° / 388 m Dir: West; Behavior: Slow travel	
		9:23:00 PDT	Blow	
		16:23-GMT	Position: 248° / 455 m Dir: West; Behavior: Slow travel	
		9:27:00 PDT	Blow	
		16:27-GMT	Position: 276° / 678 m Dir: West; Behavior: Slow travel	
		9:29:00 PDT	Blow	Inside / Inside
		16:29-GMT	Position: 290° / 735 m Dir: West; Behavior: Slow travel	
	03	Fair - 0	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:40:00 PDT	Blow	
		16:40-GMT	Position: 146° / 1331 m Dir: West; Behavior: Slow travel	
		9:42:00 PDT	Blow	
		16:42-GMT	Position: 164° / 778 m Dir: West; Behavior: Slow travel	
		9:46:00 PDT	Blow	
		16:46-GMT	Position: 203° / 661 m Dir: West; Behavior: Slow travel	
		9:47:00 PDT	Blow	
		16:47-GMT	Position: 209° / 661 m Dir: West; Behavior: Slow travel • Fluke	
		9:53:00 PDT	Blow	Inside /
		16:53-GMT	Position: 248° / 1331 m Dir: West; Behavior: Slow travel	Outside
Apr 13	Total 4 Calves 0	Er Gray whale (northbound)		
Day 65 of 105				

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau	Blow/Body	Holly/Buoys
		Time		
	01	Poor - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
		8:57:00 PDT	Blow	
		15:57-GMT	Position: 124° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		9:01:00 PDT	Blow	
		16:01-GMT	Position: 137° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
		9:10:00 PDT	Blow	
		16:10-GMT	Position: 208° / 629 m Dir: West; Behavior: Slow travel	
		9:19:00 PDT	Blow	Inside /
		16:19-GMT	Position: 251° / 1674 m Dir: West; Behavior: Slow travel	
				Outside
	07	Fair - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		10:47:00 PDT	Blow	
		17:47-GMT	Position: 100° / 3088 m Dir: West; Behavior: Slow travel	
		10:52:00 PDT	Blow	
		17:52-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
		10:57:00 PDT	Blow	
		17:57-GMT	Position: 108° / 2749 m Dir: West; Behavior: Slow travel	
		11:04:00 PDT	Blow	
		18:04-GMT	Position: 113° / 1922 m Dir: West; Behavior: Slow travel	
		11:10:00 PDT	Blow	
		18:10-GMT	Position: 120° / 1483 m Dir: West; Behavior: Slow travel	
		11:16:00 PDT	Blow	
		18:16-GMT	Position: 137° / 1020 m Dir: West; Behavior: Slow travel • Fluke	
		11:21:00 PDT	Blow	ND / ND
		18:21-GMT	Position: 184° / 574 m Dir: West; Behavior: Slow travel	
			<i>did not see again after interaction with V#8</i>	

Apr 14 Total 6 Calves 2
Day 66 of 105

Er Gray whale (northbound)

	15	Fair - 2	<i>Er</i> Total 2 — 1 Calf at sighting	
		11:42:00 PDT	Blow	Images: mhs 4371-4412
		18:42-GMT	Position: 98° / 3088 m Dir: West; Behavior: Slow travel	
			<i>sportfishing vessel in path, saw whales and moved towards them - cow spun around between boat and calf - oil barge in buoys - whales did not surface until beyond buoys, then traveled towards Ellwood Pier</i>	
		11:44:00 PDT	Blow	
		18:44-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel	
		11:47:00 PDT	Blow	
		18:47-GMT	Position: 103° / 3088 m Dir: West; Behavior: Slow travel	
		11:53:00 PDT	Blow	
		18:53-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
		11:57:00 PDT	Blow	
		18:57-GMT	Position: 106° / 2260 m Dir: West; Behavior: Slow travel	
		12:02:00 PDT	Blow	
		19:02-GMT	Position: 110° / 1674 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:04:00 PDT	Blow	
		19:04-GMT	Position: 110° / 1674 m Dir: West; Behavior: Slow travel	
		12:07:00 PDT	Blow	
		19:07-GMT	Position: 111° / 1403 m Dir: West; Behavior: Slow travel	
		12:10:00 PDT	Body	
		19:10-GMT	Position: 113° / 1020 m Dir: West; Behavior: Slow travel	
			<i>in kelp</i>	
		12:16:00 PDT	Blow Images: mhs 4390-6	
		19:16-GMT	Position: 124° / 600 m Dir: West; Behavior: Slow travel	
			<i>V#2 approaching head on ... cow positions herself between boat and calf</i>	
		12:19:00 PDT	Blow	
		19:19-GMT	Position: 145° / 412 m Dir: West; Behavior: Slow travel	
		12:22:00 PDT	Blow	
		19:22-GMT	Position: 164° / 314 m Dir: East; Behavior: Slow travel	
			<i>cow turned 180° to keep boat away from calf</i>	
		12:23:00 PDT	Blow	
		19:23-GMT	Position: 174° / 314 m Dir: West; Behavior: Slow travel	
		12:25:00 PDT	Blow	
		19:25-GMT	Position: 229° / 356 m Dir: West; Behavior: Slow travel	
		12:28:00 PDT	Blow	
		19:28-GMT	Position: 256° / 489 m Dir: West; Behavior: Slow travel	
		12:32:00 PDT	ni	
		19:32-GMT	Position: 286° / 778 m Dir: West; Behavior: Slow travel	
		12:36:00 PDT	Blow	
		19:36-GMT	Position: 297° / 1331 m Dir: West; Behavior: Slow travel	
		12:38:00 PDT	Blow	Inside / Inside
		19:38-GMT	Position: 306° / 946 m Dir: West; Behavior: Slow travel	
			<i>recticle estimated as horizon cannot be read at that bearing</i>	
20	Fair - 3	<i>Er</i> Total 2 — 0 Calves at sighting		
		14:20:00 PDT	Blow	
		21:20-GMT	Position: 125° / 2260 m Dir: West; Behavior: Slow travel	
		14:31:00 PDT	Blow	
		21:31-GMT	Position: 139° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		14:41:00 PDT	Blow	
		21:41-GMT	Position: 163° / 827 m Dir: West; Behavior: Slow travel	
		14:47:00 PDT	Blow	
		21:47-GMT	Position: 178° / 883 m Dir: West; Behavior: Slow travel • Rolling	
		14:57:00 PDT	Blow	
		21:57-GMT	Position: 229° / 735 m Dir: West; Behavior: Slow travel	
		15:04:00 PDT	Blow	
		22:04-GMT	Position: 261° / 1020 m Dir: West; Behavior: Slow travel	
		15:10:00 PDT	Blow	Inside / Outside
		22:10-GMT	Position: 270° / 2260 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
	21	Fair - 3	<i>Er</i> Total 2 — 1 Calf at sighting	
		15:30:00 PDT	Blow	Images: mhs 4449-72
		22:30-GMT	Position: 118° / 1208 m Dir: West; Behavior: Slow travel <i>calf surfaced 2 to 3 times as much as cow - traveled very close to Point - halted at buoys (barge in buoys) - surfaced 3 times, then went to waves at Sands/Ellwood</i>	
		15:33:00 PDT	Blow	
		22:33-GMT	Position: 130° / 735 m Dir: West; Behavior: Slow travel	
		15:38:00 PDT	Blow	
		22:38-GMT	Position: 167° / 334 m Dir: West; Behavior: Slow travel	
		15:40:00 PDT	Blow	
		22:40-GMT	Position: 198° / 347 m Dir: West; Behavior: Slow travel	
		15:43:00 PDT	Body	Inside / Inside
		22:43-GMT	Position: 245° / 447 m Dir: West; Behavior: Slow travel	
Apr 15 Day 67 of 105	Total 9 Calves 3	Er Gray whale (northbound)		
	05	Fair - 1	<i>Er</i> Total 2 — 0 Calves at sighting	
		9:45:00 PDT	Blow	Images: mhs 4473-4507
		16:45-GMT	Position: 119° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
		9:48:00 PDT	Blow	
		16:48-GMT	Position: 124° / 946 m Dir: West; Behavior: Slow travel • Fluke	
		9:53:00 PDT	Blow	
		16:53-GMT	Position: 130° / 600 m Dir: West; Behavior: Slow travel <i>pair split up</i>	
		9:54:00 PDT	Blow	
		16:54-GMT	Position: 150° / 696 m Dir: West; Behavior: Slow travel • Milling <i>single turned toward shore</i>	
		9:57:00 PDT	Blow	
		16:57-GMT	Position: 170° / 489 m Dir: West; Behavior: Slow travel • Spyhop <i>spyhop from trailing whale</i>	
		10:01:00 PDT	Blow	
		17:01-GMT	Position: 221° / 489 m Dir: West; Behavior: Slow travel	
		10:03:00 PDT	Blow	
		17:03-GMT	Position: 234° / 629 m Dir: West; Behavior: Slow travel	
		10:05:00 PDT	Blow	
		17:05-GMT	Position: 248° / 827 m Dir: West; Behavior: Slow travel	
		10:06:00 PDT	ni	Inside / Outside
		17:06-GMT	Position: 230° / 400 m Dir: West; Behavior: Slow travel <i>perhaps trail whale did not go outside buoys</i>	
	15	Fair - 2	<i>Er</i> Total 2 — 1 Calf at sighting	
		14:03:00 PDT	Blow	Images: mhs 4510-14
		21:03-GMT	Position: 112° / 2749 m Dir: West; Behavior: Slow travel <i>no Calf Sheet</i>	
		14:14:00 PDT	Blow	
		21:14-GMT	Position: 124° / 1674 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		14:19:00 PDT	Blow	
		21:19-GMT	Position: 138° / 1331 m Dir: West; Behavior: Slow travel	
		14:25:00 PDT	Blow	
		21:25-GMT	Position: 171° / 550 m Dir: West; Behavior: Slow travel	
		14:30:00 PDT	Blow	
		21:30-GMT	Position: 218° / 528 m Dir: West; Behavior: Slow travel	
		14:35:00 PDT	Blow	Inside / Outside
		21:35-GMT	Position: 256° / 883 m Dir: West; Behavior: Slow travel	
	24	Fair - 2	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:45:00 PDT	Blow	
		23:45-GMT	Position: 104° / 3088 m Dir: West; Behavior: Slow travel	
			no Calf Sheet	
		16:52:00 PDT	Blow	ND / ND
		23:52-GMT	Position: 105° / 2749 m Dir: West; Behavior: Slow travel	
	25	Fair - 2	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:48:00 PDT	Blow	
		23:48-GMT	Position: 103° / 3088 m Dir: West; Behavior: Slow travel	
		16:52:00 PDT	Blow	ND / ND
		23:52-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel	
			no Calf Sheet	
	26	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		16:55:00 PDT	Blow	
		23:55-GMT	Position: 107° / 2260 m Dir: West; Behavior: Slow travel	

Apr 16 Total 14 Calves 4
Day 68 of 105

			Er Gray whale (northbound)	
	01	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
		8:52:00 PDT	Blow Images: mhs 4532 - 55	
		15:52-GMT	Position: 212° / 412 m Dir: West; Behavior: Slow travel	
		8:56:00 PDT	Blow	
		15:56-GMT	Position: 224° / 528 m Dir: West; Behavior: Slow travel	
			sea lion with whales	
		8:59:00 PDT	Blow	
		15:59-GMT	Position: 245° / 629 m Dir: West; Behavior: Slow travel • Rolling	
		9:05:00 PDT	Blow	
		16:05-GMT	Position: 255° / 696 m Dir: West; Behavior: Slow travel	
		9:06:00 PDT	Blow	
		16:06-GMT	Position: 256° / 778 m Dir: West; Behavior: Slow travel • Rolling	
		9:13:00 PDT	Blow	Inside / Through
		16:13-GMT	Position: 280° / 946 m Dir: West; Behavior: Slow travel	
			3 Er together - one small whale, possible calf - rolling - seemed like mating - not nursing or playing with calf	
	02	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		9:06:00 PDT	Blow Images: mhs 4556-8	
		16:06-GMT	Position: 123° / 1922 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		9:09:00 PDT	Blow	
		16:09-GMT	Position: 133° / 1403 m Dir: West; Behavior: Slow travel	
		9:14:00 PDT	Blow	
		16:14-GMT	Position: 150° / 946 m Dir: West; Behavior: Slow travel	
		9:18:00 PDT	Blow	
		16:18-GMT	Position: 186° / 678 m Dir: West; Behavior: Slow travel	
		9:30:00 PDT	Blow	Inside / Outside
		16:30-GMT	Position: 263° / 1483 m Dir: West; Behavior: Slow travel	
	08	Good - 1	<i>Er</i> Total 2 — 1 Calf at sighting	
		11:08:00 PDT	Blow	
		18:08-GMT	Position: 111° / 1483 m Dir: West; Behavior: Slow travel <i>not entered on a Calf Sheet - no images</i>	
		11:15:00 PDT	Blow	
		18:15-GMT	Position: 118° / 913 m Dir: West; Behavior: Slow travel	
		11:18:00 PDT	Blow	
		18:18-GMT	Position: 125° / 678 m Dir: West; Behavior: Slow travel	
		11:23:00 PDT	Blow	
		18:23-GMT	Position: 168° / 455 m Dir: West; Behavior: Slow travel • Bubbles <i>bubble blast</i>	
		11:24:00 PDT	Blow	
		18:24-GMT	Position: 198° / 412 m Dir: West; Behavior: Slow travel	
		11:26:00 PDT	Body	
		18:26-GMT	Position: 220° / 455 m Dir: West; Behavior: Slow travel	
		11:31:00 PDT	Blow	Inside / ND
		18:31-GMT	Position: 222° / 471 m Dir: West; Behavior: Slow travel	
	13	Good - 1	<i>Er</i> Total 3 — 1 Calf at sighting	
		11:54:00 PDT	Blow <i>Images: mhs 4566-83</i>	
		18:54-GMT	Position: 135° / 678 m Dir: West; Behavior: Slow travel <i>Traveled between larger whales: mom, outside; calf, middle, very close to mom; other whale, inside, closer to shore. Unlike trio this morning also with a small whale, this was clearly cow/calf + one whale. Calf very attached to mom.</i>	
		11:57:00 PDT	Blow	
		18:57-GMT	Position: 181° / 528 m Dir: West; Behavior: Slow travel	
		12:02:00 PDT	Body	
		19:02-GMT	Position: 237° / 661 m Dir: West; Behavior: Slow travel	
		12:07:00 PDT	Blow	Inside / Inside
		19:07-GMT	Position: 283° / 946 m Dir: West; Behavior: Slow travel <i>SW#9 ULW may have been this group or part of this group</i>	
	15	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting	
		13:31:00 PDT	Blow	
		20:31-GMT	Position: 116° / 1483 m Dir: West; Behavior: Slow travel <i>small whale - yearling? - with sea lions</i>	
		13:34:00 PDT	Blow	
		20:34-GMT	Position: 119° / 1331 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		13:41:00 PDT	Blow	
		20:41-GMT	Position: 131° / 735 m Dir: West; Behavior: Slow travel	
		13:43:00 PDT	Body	
		20:43-GMT	Position: 133° / 600 m Dir: West; Behavior: Slow travel • Spyhop	
		13:45:00 PDT	Body	
		20:45-GMT	Position: 141° / 489 m Dir: West; Behavior: Slow travel	
		13:47:00 PDT	Blow	Inside /
		20:47-GMT	Position: 180° / 377 m Dir: West; Behavior: Slow travel	Through
		<i>no positions entered to establish route between buoys</i>		
	26	Fair - 3	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:18:00 PDT	Blow Images: mhs 4584-90	
		23:18-GMT	Position: 105° / 2749 m Dir: West; Behavior: Slow travel	
		<i>not entered on Calf Sheet</i>		
		16:23:00 PDT	Blow	
		23:23-GMT	Position: 107° / 2260 m Dir: West; Behavior: Slow travel	
		16:30:00 PDT	Blow	
		23:30-GMT	Position: 109° / 1922 m Dir: West; Behavior: Slow travel	
		16:32:00 PDT	Blow	
		23:32-GMT	Position: 112° / 1403 m Dir: West; Behavior: Slow travel	
		16:35:00 PDT	Blow	
		23:35-GMT	Position: 115° / 1331 m Dir: West; Behavior: Slow travel	
		<i>both in kelp</i>		
		16:44:00 PDT	Blow	
		23:44-GMT	Position: 136° / 539 m Dir: West; Behavior: Slow travel	
		16:48:00 PDT	Blow	
		23:48-GMT	Position: 174° / 388 m Dir: West; Behavior: Slow travel	
		16:50:00 PDT	Blow	
		23:50-GMT	Position: 218° / 388 m Dir: West; Behavior: Slow travel	
		16:55:00 PDT	Blow	
		23:55-GMT	Position: 270° / 528 m Dir: West; Behavior: Slow travel	
		16:59:00 PDT	Blow	Inside / Inside
		23:59-GMT	Position: 294° / 946 m Dir: West; Behavior: Slow travel	
		<i>both in surf @ Sands</i>		
	27	Fair - 3	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:38:00 PDT	Blow Images: mhs 4598-4610	
		23:38-GMT	Position: 99° / 3088 m Dir: West; Behavior: Slow travel	
		<i>Condor (not entered in our data) followed whales to Campus Point, then left.</i>		
		16:41:00 PDT	Blow	
		23:41-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
		16:43:00 PDT	Blow	
		23:43-GMT	Position: 101° / 2749 m Dir: Stationary; Behavior: Still, not moving	
		16:51:00 PDT	Blow	
		23:51-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		16:54:00 PDT	Blow	
		23:54-GMT	Position: 107° / 2260 m Dir: West; Behavior: Slow travel	
		16:57:00 PDT	Blow	
		23:57-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
		17:00:00 PDT	Body	
		0:00	Position: 109° / 1674 m Dir: West; Behavior: Slow travel	
		17:03:00 PDT	Blow	
		0:03	Position: 112° / 1403 m Dir: West; Behavior: Slow travel	
			<i>calf on inside</i>	
		17:07:00 PDT	Blow	
		0:07	Position: 116° / 1106 m Dir: West; Behavior: Slow travel	
		17:11:00 PDT	Blow	
		0:11	Position: 120° / 696 m Dir: West; Behavior: Slow travel	
		17:19:00 PDT	Body	
		0:19	Position: 166° / 400 m Dir: West; Behavior: Slow travel	
		17:22:00 PDT	Blow	
		0:22	Position: 203° / 426 m Dir: West; Behavior: Slow travel	
		17:23:00 PDT	Blow	Inside / ND
		0:23	Position: 226° / 426 m Dir: West; Behavior: Slow travel	
Apr 17	Total 4 Calves 2	Er Gray whale (northbound)		
Day 69 of 105				

06	Fair - 1	Er Total 2 — 1 Calf at sighting		
		9:57:00 PDT	Blow	Images: none
		16:57-GMT	Position: 107° / 2749 m Dir: West; Behavior: Slow travel	
			<i>no comments on Calf Observation Checklist</i>	
		10:03:00 PDT	Blow	
		17:03-GMT	Position: 111° / 1922 m Dir: West; Behavior: Slow travel	
		10:06:00 PDT	Blow	
		17:06-GMT	Position: 119° / 1674 m Dir: West; Behavior: Slow travel	
		10:10:00 PDT	Blow	
		17:10-GMT	Position: 123° / 1208 m Dir: West; Behavior: Slow travel	
		10:15:00 PDT	Blow	
		17:15-GMT	Position: 131° / 778 m Dir: West; Behavior: Slow travel	
		10:17:00 PDT	Blow	
		17:17-GMT	Position: 138° / 778 m Dir: West; Behavior: Slow travel	
		10:18:00 PDT	Blow	
		17:18-GMT	Position: 135° / 600 m Dir: West; Behavior: Slow travel	
		10:21:00 PDT	Blow	
		17:21-GMT	Position: 137° / 412 m Dir: West; Behavior: Slow travel	
			<i>Condor Express with whales</i>	
		10:22:00 PDT	Blow	
		17:22-GMT	Position: 136° / 356 m Dir: West; Behavior: Milling	
		10:24:00 PDT	Blow	
		17:24-GMT	Position: 179° / 314 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		10:32:00 PDT	Blow	Inside / Inside
		17:32-GMT	Position: 280° / 778 m Dir: West; Behavior: Slow travel	
	11	Fair - 1	<i>Er</i> Total 2 — 1 Calf at sighting	
		12:42:00 PDT	Blow Images: none	
		19:42-GMT	Position: 110° / 1020 m Dir: West; Behavior: Slow travel	
			no comments on Calf Observation Checklist	
		12:49:00 PDT	Blow	
		19:49-GMT	Position: 115° / 778 m Dir: West; Behavior: Slow travel	
		12:54:00 PDT	Blow	
		19:54-GMT	Position: 135° / 600 m Dir: West; Behavior: Slow travel	
		13:00:00 PDT	Body	
		20:00-GMT	Position: 224° / 412 m Dir: West; Behavior: Slow travel	
		13:05:00 PDT	Body	Inside / Inside
		20:05-GMT	Position: 270° / 661 m Dir: West; Behavior: Slow travel	

Apr 19 Total 6 Calves 0
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Er Gray whale (northbound)

	07	Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
		10:04:00 PDT	Body Images: mhs 4611-21	
		17:04-GMT	Position: 134° / 400 m Dir: West; Behavior: Slow travel	
			2 large whales + 1 small whale (yearling?)	
			Large whale rolling with medium-sized whale - small whale mostly apart	
		10:07:00 PDT	Blow	
		17:07-GMT	Position: 174° / 269 m Dir: West; Behavior: Slow travel	
		10:08:00 PDT	Body	
		17:08-GMT	Position: 186° / 338 m Dir: West; Behavior: Slow travel	
		10:09:00 PDT	Body	
		17:09-GMT	Position: 199° / 314 m Dir: West; Behavior: Slow travel	
		10:11:00 PDT	Blow	
		17:11-GMT	Position: 226° / 296 m Dir: West; Behavior: Slow travel	
		10:12:00 PDT	Body	
		17:12-GMT	Position: 236° / 287 m Dir: West; Behavior: Slow travel	
		10:15:00 PDT	Blow	
		17:15-GMT	Position: 254° / 412 m Dir: West; Behavior: Slow travel • Rolling	
		10:17:00 PDT	Blow	
		17:17-GMT	Position: 280° / 600 m Dir: West; Behavior: Slow travel	
		10:22:00 PDT	Blow	Inside / Inside
		17:22-GMT	Position: 299° / 678 m Dir: West; Behavior: Slow travel	
	13	Fair - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
		11:59:00 PDT	Breach Images: mhs 4622-3	
		18:59-GMT	Position: 167° / 1674 m Dir: West; Behavior: Slow travel • Breach	
			2 breaches: reaction to side-scan sonar ????	
		12:11:00 PDT	Blow	
		19:11-GMT	Position: 220° / 1922 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:14:00 PDT	Blow	
		19:14-GMT	Position: 235° / 1922 m Dir: West; Behavior: Slow travel	
		12:16:00 PDT	Blow	
		19:16-GMT	Position: 239° / 2260 m Dir: West; Behavior: Slow travel	
		12:18:00 PDT	Blow	Inside /
		19:18-GMT	Position: 252° / 3088 m Dir: West; Behavior: Slow travel	Outside
	18	Fair - 3	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:15:00 PDT	Blow	Inside /
		21:15-GMT	Position: 242° / 778 m Dir: West; Behavior: Slow travel	Outside
			<i>one sighting</i>	
Apr 20 Day 72 of 105	Total 2 Calves 1	Er Gray whale (northbound)		
	01	Fair - 4	<i>Er</i> Total 2 — 1 Calf at sighting	
		14:28:00 PDT	Blow Images: mhs 4688-99	
		21:28-GMT	Position: 227° / 382 m Dir: West; Behavior: Slow travel • Breach	
		14:33:00 PDT	Blow	
		21:33-GMT	Position: 261° / 489 m Dir: West; Behavior: Slow travel • Breach	
		14:35:00 PDT	Blow	Inside / Inside
		21:35-GMT	Position: 280° / 778 m Dir: West; Behavior: Slow travel • Breach	
Apr 24 Day 76 of 105	Total 2 Calves 1	Er Gray whale (northbound)		
	16	Fair - 3	<i>Er</i> Total 2 — 1 Calf at sighting	
		16:06:00 PDT	Blow Images: mhs 4951-59; 4972-5065	
		23:06-GMT	Position: 118° / 1331 m Dir: West; Behavior: Slow travel	
			<i>Steady travel - then stopped around 210 - went back and forth - possibly nursing - rolling</i>	
		16:08:00 PDT	Blow	
		23:08-GMT	Position: 120° / 1106 m Dir: West; Behavior: Slow travel	
		16:13:00 PDT	Blow	
		23:13-GMT	Position: 132° / 883 m Dir: West; Behavior: Slow travel	
		16:18:00 PDT	Blow	
		23:18-GMT	Position: 148° / 696 m Dir: West; Behavior: Slow travel	
		16:22:00 PDT	Blow	
		23:22-GMT	Position: 165° / 489 m Dir: West; Behavior: Slow travel	
		16:25:00 PDT	Blow	
		23:25-GMT	Position: 201° / 471 m Dir: West; Behavior: Slow travel	
		16:26:00 PDT	Body	
		23:26-GMT	Position: 206° / 489 m Dir: West; Behavior: Slow travel	
		16:29:00 PDT	Blow	
		23:29-GMT	Position: 229° / 471 m Dir: West; Behavior: Slow travel	
		16:32:00 PDT	Body	
		23:32-GMT	Position: 219° / 489 m Dir: East; Behavior: Slow travel • Rolling	
		16:37:00 PDT	Blow	
		23:37-GMT	Position: 224° / 489 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		16:41:00 PDT	Blow	
		23:41-GMT	Position: 229° / 489 m Dir: West; Behavior: Slow travel • Rolling	
		16:44:00 PDT	Blow	
		23:44-GMT	Position: 244° / 600 m Dir: West; Behavior: Slow travel	
		16:46:00 PDT	Blow	
		23:46-GMT	Position: 261° / 883 m Dir: West; Behavior: Slow travel	
		16:52:00 PDT	Blow	
		23:52-GMT	Position: 267° / 1483 m Dir: West; Behavior: Slow travel	
		16:59:00 PDT	Blow	Inside /
		23:59-GMT	Position: 282° / 1331 m Dir: West; Behavior: Slow travel	Through
May 02 Day 84 of 105	Total 2 Calves 1	Er Gray whale (northbound)		
	01	Fair - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
		9:03:00 PDT	Blow Images: mhs 5725-37, 39-57	
		16:03-GMT	Position: 117° / 1208 m Dir: West; Behavior: Slow travel	
		<i>Chin lifts! saw whales (but not entered) before 9am</i>		
		9:06:00 PDT	Blow	
		16:06-GMT	Position: 120° / 946 m Dir: West; Behavior: Slow travel	
		9:09:00 PDT	Blow	
		16:09-GMT	Position: 130° / 778 m Dir: West; Behavior: Slow travel	
		<i>Zc with whales</i>		
		9:13:00 PDT	Blow	
		16:13-GMT	Position: 162° / 400 m Dir: West; Behavior: Slow travel	
		9:15:00 PDT	Blow	
		16:15-GMT	Position: 184° / 377 m Dir: West; Behavior: Slow travel	
		9:16:00 PDT	Body	
		16:16-GMT	Position: 197° / 388 m Dir: West; Behavior: Slow travel	
		9:20:00 PDT	Blow	
		16:20-GMT	Position: 237° / 400 m Dir: West; Behavior: Slow travel	
		9:23:00 PDT	Blow	
		16:23-GMT	Position: 257° / 661 m Dir: West; Behavior: Slow travel	
		9:25:00 PDT	Body	
		16:25-GMT	Position: 274° / 574 m Dir: West; Behavior: Slow travel	
		9:26:00 PDT	Blow	
		16:26-GMT	Position: 283° / 735 m Dir: West; Behavior: Slow travel	
		9:28:00 PDT	Blow	Inside / Inside
		16:28-GMT	Position: 290° / 778 m Dir: West; Behavior: Slow travel	
May 03 Day 85 of 105	Total 2 Calves 1	Er Gray whale (northbound)		
	12	Fair - 1	<i>Er</i> Total 2 — 1 Calf at sighting	
		11:57:00 PDT	Blow Images: mhs 5931-49	
		18:57-GMT	Position: 118° / 2260 m Dir: West; Behavior: Slow travel	
		<i>Vessel interaction V#14 (images 5927-30) surrounded by sea lions; boat (V#14) traveled over them; went through active oil seep.</i>		

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		12:01:00 PDT	Blow	
		19:01-GMT	Position: 122° / 1483 m Dir: West; Behavior: Slow travel	
		12:05:00 PDT	Blow	
		19:05-GMT	Position: 132° / 946 m Dir: West; Behavior: Slow travel	
		12:08:00 PDT	Blow	
		19:08-GMT	Position: 144° / 913 m Dir: West; Behavior: Slow travel	
		12:11:00 PDT	Blow	
		19:11-GMT	Position: 174° / 735 m Dir: West; Behavior: Slow travel	
		12:17:00 PDT	Blow	
		19:17-GMT	Position: 207° / 600 m Dir: West; Behavior: Slow travel	
		12:21:00 PDT	Blow	
		19:21-GMT	Position: 237° / 696 m Dir: West; Behavior: Slow travel	
		12:24:00 PDT	Blow	Inside / Outside
		19:24-GMT	Position: 254° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
May 04 Day 86 of 105	Total 2 Calves 1	Er Gray whale (northbound)		
	05	Fair - 1	ErTotal 2 — 1 Calf at sighting	
		10:00:00 PDT	Blow Images: none	
		17:00-GMT	Position: 135° / 600 m Dir: West; Behavior: Slow travel	
			<i>very timid - continued by, quite slowly - calf only surfaced once without cow - disappeared before buoys</i>	
		10:05:00 PDT	Body	
		17:05-GMT	Position: 181° / 388 m Dir: West; Behavior: Slow travel	
		10:06:00 PDT	Body	
		17:06-GMT	Position: 203° / 388 m Dir: West; Behavior: Slow travel	
		10:08:00 PDT	Blow	
		17:08-GMT	Position: 232° / 471 m Dir: West; Behavior: Slow travel	
		10:11:00 PDT	Blow	Inside / ND
		17:11-GMT	Position: 247° / 629 m Dir: West; Behavior: Slow travel	
			<i>very timid</i>	
May 06 Day 88 of 105	Total 2 Calves 1	Er Gray whale (northbound)		
	05	Fair - 3	ErTotal 2 — 1 Calf at sighting	
		10:46:00 PDT	Blow Images: mhs 6330-48	
		17:46-GMT	Position: 115° / 1674 m Dir: West; Behavior: Slow travel	
			<i>moved through area without stopping, then paused just outside buoys</i>	
		10:53:00 PDT	Blow	
		17:53-GMT	Position: 121° / 1331 m Dir: West; Behavior: Slow travel	
		11:00:00 PDT	Body	
		18:00-GMT	Position: 140° / 574 m Dir: West; Behavior: Slow travel	
		11:02:00 PDT	Body	
		18:02-GMT	Position: 169° / 400 m Dir: West; Behavior: Slow travel	
		11:05:00 PDT	Body	
		18:05-GMT	Position: 216° / 412 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau		Holly/Buoys
		Time	Blow/Body	
		11:09:00 PDT	Body	
		18:09-GMT	Position: 242° / 778 m Dir: West; Behavior: Slow travel	
		11:16:00 PDT	ni	Inside / Outside
		18:16-GMT	Position: 260° / 1674 m Dir: West; Behavior: Slow travel • Milling	
May 07 Day 89 of 105	Total 4 Calves 2	Er Gray whale (northbound)		
	14	Fair - 1	<i>Er</i> Total 4 — 2 Calves at sighting	
		14:46:00 PDT	Blow Images: mhs 6531-91	
		21:46-GMT	Position: 117° / 1483 m Dir: West; Behavior: Slow travel	
		<i>Totals corrected from images at site. (See image 6540_Text) Two pairs together with calves mostly between the cows. Difficult to sort out. Turned into, then thru, kelp. Saw calf head at least three times. Traveled through buoys with vessels working there.</i>		
		14:48:00 PDT	Body	
		21:48-GMT	Position: 121° / 1403 m Dir: West; Behavior: Slow travel	
		14:50:00 PDT	Body	
		21:50-GMT	Position: 124° / 1208 m Dir: West; Behavior: Slow travel • Spyhop	
		14:51:00 PDT	Body	
		21:51-GMT	Position: 126° / 1020 m Dir: West; Behavior: Slow travel	
		14:54:00 PDT	Blow	
		21:54-GMT	Position: 135° / 661 m Dir: West; Behavior: Slow travel	
		14:59:00 PDT	Blow Images: 6540	
		21:59-GMT	Position: 164° / 338 m Dir: West; Behavior: Slow travel	
		15:03:00 PDT	Blow	
		22:03-GMT	Position: 219° / 356 m Dir: West; Behavior: Slow travel	
		15:06:00 PDT	Blow	
		22:06-GMT	Position: 254° / 600 m Dir: West; Behavior: Slow travel	
		15:08:00 PDT	Blow	
		22:08-GMT	Position: 264° / 696 m Dir: West; Behavior: Slow travel	
		15:11:00 PDT	Blow	
		22:11-GMT	Position: 272° / 1331 m Dir: West; Behavior: Slow travel	
		15:13:00 PDT	Blow	Inside / Through
		22:13-GMT	Position: 274° / 1331 m Dir: West; Behavior: Slow travel	
May 12 Day 94 of 105	Total 1 Calves 0	Er Gray whale (northbound)		
	17	Fair - 2	<i>Er</i> Total 1 — 0 Calves at sighting	
		14:56:00 PDT	Body	
		21:56-GMT	Position: 146° / 489 m Dir: West; Behavior: Slow travel	
		<i>with sea lions</i>		
		14:59:00 PDT	Body	
		21:59-GMT	Position: 194° / 347 m Dir: West; Behavior: Slow travel	
		15:02:00 PDT	Blow	
		22:02-GMT	Position: 238° / 455 m Dir: West; Behavior: Slow travel	
		15:03:00 PDT	Blow	Inside / ND
		22:03-GMT	Position: 255° / 600 m Dir: West; Behavior: Slow travel	

2010 Gray whales (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Sighting Number	Quality - Beau	Time	Blow/Body	Holly/Buoys
May 16 Day 98 of 105	Total 1 Calves 0		Er Gray whale (northbound)		
	02	Poor - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
			10:28:00 PDT	Blow	
			17:28-GMT	Position: 141° / 550 m Dir: West; Behavior: Slow travel	
			10:33:00 PDT	Blow	
			17:33-GMT	Position: 225° / 508 m Dir: West; Behavior: Slow travel	
			10:38:00 PDT	Blow	
			17:38-GMT	Position: 272° / 883 m Dir: West; Behavior: Slow travel	
			10:40:00 PDT	Blow	
			17:40-GMT	Position: 278° / 946 m Dir: West; Behavior: Slow travel	
			10:48:00 PDT	Blow	Inside /
			17:48-GMT	Position: 293° / 1331 m Dir: West; Behavior: Slow travel	Through
May 17 Day 99 of 105	Total 1 Calves 0		Er Gray whale (northbound)		
	16	Fair - 1	<i>Er</i> Total 1 — 0 Calves at sighting		
			15:19:00 PDT	Blow	Images: mhs 7318-29
			22:19-GMT	Position: 111° / 2260 m Dir: West; Behavior: Slow travel	
			15:24:00 PDT	Blow	
			22:24-GMT	Position: 115° / 1483 m Dir: West; Behavior: Slow travel	
			15:30:00 PDT	Blow	
			22:30-GMT	Position: 127° / 883 m Dir: West; Behavior: Slow travel	
			15:36:00 PDT	Blow	
			22:36-GMT	Position: 184° / 471 m Dir: West; Behavior: Slow travel	
			15:43:00 PDT	Blow	
			22:43-GMT	Position: 254° / 600 m Dir: West; Behavior: Slow travel	
			15:45:00 PDT	Body	
			22:45-GMT	Position: 264° / 696 m Dir: West; Behavior: Slow travel	
			15:50:00 PDT	Blow	Inside /
			22:50-GMT	Position: 280° / 1331 m Dir: West; Behavior: Slow travel	Through