



2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Total: 677 Calves: 109 Number of Sightings: 293

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
Feb 11 Total 1 Calves 0 Day 5 of 105	Er Gray whale (northbound)		
Sighting Number	10 Good - 0	Er Total 1 — 0 Calves at sighting	
	12:35:00 PST	ni / Blow	
	20:35-GMT	Position: 162° / 3088 m Dir: West; Behavior: Slow travel	
	12:43:00 PST	Blow	
	20:43-GMT	Position: 173° / 3088 m Dir: West; Behavior: Slow travel	
	12:45:00 PST	Blow	
	20:45-GMT	Position: 177° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	12:51:00 PST	Blow	
	20:51-GMT	Position: 186° / 3088 m Dir: West; Behavior: Slow travel	
	13:03:00 PST	Blow	
	21:03-GMT	Position: 206° / 3088 m Dir: West; Behavior: Slow travel	
	13:14:00 PST	Blow	
	21:14-GMT	Position: 214° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:27:00 PST	Blow	Outside / Outside
	21:27-GMT	Position: 235° / 3528 m Dir: West; Behavior: Slow travel	

Feb 12 Total 1 Calves 0 Day 6 of 105	Er Gray whale (northbound)		
Sighting Number	09 Good - 0	Er Total 1 — 0 Calves at sighting	
	10:23:00 PST	ni / Body	
	18:23-GMT	Position: 207° / 1106 m Dir: West; Behavior: Slow travel	
		<i>boat (V#8) approaching head on- whale snorkling</i>	

KEY: *Quality is overall observation quality. The number is Beaufort scale. CueTip is what tipped us to look in a particular area or direction that was other than normal scanning (SD is Surface Disturbance.). Saw is what we saw 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.*

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); and if the whales passed outside the oil-barge mooring buoys; inside the buoys (on the shore side, which is a cow/calf route); or through the buoys, which even occurs — sometimes — when the oil barge is moored.

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

part of **2011 Gray Whales Count, Survey Report** © Gray Whales Count, 2016,
prepared by Michael H Smith, Project Coordinator, Gray Whales Count, Santa Barbara, California, USA.

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

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	Time	Cue/Tip / Saw	Holly / Buoys
		10:29:00 PST	Body	
		18:29-GMT	Position: 230° / 1331 m Dir: West; Behavior: Slow travel	
		10:31:00 PST	Body	Inside / Outside
		18:31-GMT	Position: 244° / 1674 m Dir: West; Behavior: Slow travel	
<hr/>				
Feb 14	Total 2 Calves 0	Er Gray whale (northbound)		
Day 8 of 105				
Sighting Number	07	Fair - 0	Er Total 2 — 0 Calves at sighting	
		11:03:00 PST	ni / Body	
		19:03-GMT	Position: 187° / 508 m Dir: West; Behavior: Slow travel	
		11:09:00 PST	Blow	
		19:09-GMT	Position: 224° / 661 m Dir: West; Behavior: Slow travel • Fluke	
		11:18:00 PST	Blow	Inside / Outside
		19:18-GMT	Position: 265° / 1331 m Dir: West; Behavior: Slow travel	
<hr/>				
Feb 17	Total 5 Calves 0	Er Gray whale (northbound)		
Day 11 of 105				
Sighting Number	04	Fair - 2	Er Total 3 — 0 Calves at sighting	
		9:15:00 PST	SD / Blow	
		17:15-GMT	Position: 167° / 3088 m Dir: West; Behavior: Slow travel	
		9:19:00 PST	Blow	
		17:19-GMT	Position: 171° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		9:25:00 PST	Blow	
		17:25-GMT	Position: 182° / 3088 m Dir: West; Behavior: Slow travel	
		9:33:00 PST	Blow	
		17:33-GMT	Position: 191° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		9:40:00 PST	Blow	
		17:40-GMT	Position: 197° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		9:49:00 PST	Blow	
		17:49-GMT	Position: 205° / 3088 m Dir: West; Behavior: Slow travel • Rolling	
		9:59:00 PST	Blow	
		17:59-GMT	Position: 217° / 3088 m Dir: West; Behavior: Slow travel	
		10:13:00 PST	Blow	
		18:13-GMT	Position: 230° / 3528 m Dir: West; Behavior: Slow travel	
		10:22:00 PST	Blow	Outside / Outside
		18:22-GMT	Position: 238° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	06	Fair - 3	Er Total 2 — 0 Calves at sighting	
		10:15:00 PST	SD / Blow	
		18:15-GMT	Position: 151° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		10:29:00 PST	Blow	
		18:29-GMT	Position: 174° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		10:35:00 PST	Blow	
		18:35-GMT	Position: 186° / 2260 m Dir: West; Behavior: Slow travel	
		10:40:00 PST	Blow	
		18:40-GMT	Position: 198° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		10:45:00 PST	Blow	
		18:45-GMT	Position: 213° / 2749 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	10:51:00 PST	Blow	
	18:51-GMT	Position: 227° / 3088 m Dir: West; Behavior: Slow travel	
	10:57:00 PST	Blow	
	18:57-GMT	Position: 242° / 3088 m Dir: West; Behavior: Slow travel	
	11:00:00 PST	Blow	Inside / Outside
	19:00-GMT	Position: 247° / 3088 m Dir: West; Behavior: Slow travel	
Feb 20 Total 2 Calves 0 Day 14 of 105	Er Gray whale (northbound)		
Sighting Number	11	Good - 2	Er Total 2 — 0 Calves at sighting
	12:42:00 PST	ni / Blow	
	20:42-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel	
	12:48:00 PST	Blow	
	20:48-GMT	Position: 164° / 3088 m Dir: West; Behavior: Slow travel	
	12:49:00 PST	Blow	
	20:49-GMT	Position: 168° / 3088 m Dir: West; Behavior: Slow travel	
	12:53:00 PST	Blow	
	20:53-GMT	Position: 173° / 3088 m Dir: West; Behavior: Slow travel	
	12:55:00 PST	Blow	
	20:55-GMT	Position: 174° / 3088 m Dir: West; Behavior: Slow travel	
	13:00:00 PST	Blow	
	21:00-GMT	Position: 185° / 3088 m Dir: West; Behavior: Slow travel	
	13:02:00 PST	Blow	
	21:02-GMT	Position: 190° / 3088 m Dir: West; Behavior: Slow travel	
	13:17:00 PST	Blow	
	21:17-GMT	Position: 221° / 3088 m Dir: West; Behavior: Slow travel	
	13:23:00 PST	Blow	Outside / Outside
	21:23-GMT	Position: 231° / 3528 m Dir: West; Behavior: Slow travel	
Feb 21 Total 2 Calves 0 Day 15 of 105	Er Gray whale (northbound)		
Sighting Number	20	Good - 1	Er Total 2 — 0 Calves at sighting
	13:35:00 PST	Boat / Blow	
	21:35-GMT	Position: 164° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel <i>Condor Express described whale as a North-bound Gray Whale- later identified by us</i>	
	13:51:00 PST	Blow	
	21:51-GMT	Position: 171° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
	14:04:00 PST	Blow	
	22:04-GMT	Position: 177° / 13138 m Dir: West; Behavior: Slow travel • Moderate travel	
	14:15:00 PST	Blow	
	22:15-GMT	Position: 184° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
	14:23:00 PST	Blow	
	22:23-GMT	Position: 190° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
	14:32:00 PST	Blow	
	22:32-GMT	Position: 198° / 3528 m Dir: West; Behavior: Slow travel • Moderate travel • Fluke	
	14:41:00 PST	Blow	Outside / Outside
	22:41-GMT	Position: 211° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
Feb 22 Total 2 Calves 0 Day 16 of 105	Er Gray whale (northbound)		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	12 Fair - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
	12:52:00 PST	ni / Body	
	20:52-GMT	Position: 137° / 2260 m Dir: West; Behavior: Slow travel	
	12:56:00 PST	Body	
	20:56-GMT	Position: 147° / 2260 m Dir: West; Behavior: Slow travel	
	13:05:00 PST	Blow	
	21:05-GMT	Position: 173° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	13:13:00 PST	Blow	
	21:13-GMT	Position: 201° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	13:20:00 PST	Blow	
	21:20-GMT	Position: 223° / 2749 m Dir: West; Behavior: Slow travel	
	13:23:00 PST	Blow	Inside / Outside
	21:23-GMT	Position: 230° / 2749 m Dir: West; Behavior: Slow travel	

Feb 24 Total 2 Calves 0
Day 18 of 105

Er Gray whale (northbound)

Sighting Number	14 Good - 3	<i>Er</i> Total 2 — 0 Calves at sighting	
	13:41:00 PST	ni / Blow	
	21:41-GMT	Position: 155° / 827 m Dir: West; Behavior: Slow travel • Fluke	
		<i>lead whale</i>	
	13:48:00 PST	Blow	
	21:48-GMT	Position: 163° / 600 m Dir: West; Behavior: Slow travel	
		<i>trail whale - big whales</i>	
	13:51:00 PST	Blow	
	21:51-GMT	Position: 190° / 539 m Dir: West; Behavior: Slow travel	
		<i>trail whale</i>	
	13:53:00 PST	Blow	
	21:53-GMT	Position: 224° / 778 m Dir: West; Behavior: Slow travel • Fluke	
		<i>2 whales separated by 0.5 nm - lead</i>	
	13:56:00 PST	Blow	
	21:56-GMT	Position: 235° / 827 m Dir: West; Behavior: Slow travel	
		<i>trail</i>	
	14:00:00 PST	Blow	
	22:00-GMT	Position: 249° / m Dir: West; Behavior: Slow travel	
		<i>together? 4 blows no fluke - could be 1+2 (1-female, 2-male)?</i>	
	14:02:00 PST	Blow	
	22:02-GMT	Position: 253° / 1922 m Dir: West; Behavior: Slow travel	
	14:06:00 PST	Blow	Inside / Outside
	22:06-GMT	Position: 255° / 1922 m Dir: West; Behavior: Slow travel	

Feb 27 Total 13 Calves 0
Day 21 of 105

Er Gray whale (northbound)

Sighting Number	01 Good - 1	<i>Er</i> Total 5 — 0 Calves at sighting	
	9:10:00 PST	SD / Blow	
	17:10-GMT	Position: 156° / 5027 m Dir: West; Behavior: Slow travel	
	9:12:00 PST	Blow	
	17:12-GMT	Position: 158° / 5027 m Dir: West; Behavior: Slow travel	
	9:22:00 PST	Blow	
	17:22-GMT	Position: 162° / 5027 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	9:26:00 PST	Blow	
	17:26-GMT	Position: 164° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	9:31:00 PST	Blow	
	17:31-GMT	Position: 167° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	9:35:00 PST	Blow	
	17:35-GMT	Position: 171° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	9:41:00 PST	Blow	
	17:41-GMT	Position: 177° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	9:47:00 PST	Blow	
	17:47-GMT	Position: 183° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	9:51:00 PST	Blow	
	17:51-GMT	Position: 189° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	9:57:00 PST	Blow	
	17:57-GMT	Position: 200° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	10:04:00 PST	Blow	
	18:04-GMT	Position: 212° / 3528 m Dir: West; Behavior: Slow travel	
	10:07:00 PST	Blow	
	18:07-GMT	Position: 217° / 3528 m Dir: West; Behavior: Slow travel	
	10:10:00 PST	Blow	
	18:10-GMT	Position: 222° / 3528 m Dir: West; Behavior: Slow travel	
	10:16:00 PST	Blow	
	18:16-GMT	Position: 229° / 3528 m Dir: West; Behavior: Slow travel	
	10:19:00 PST	Blow	
	18:19-GMT	Position: 233° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	10:21:00 PST	Blow	
	18:21-GMT	Position: 235° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	10:24:00 PST	Blow	
	18:24-GMT	Position: 239° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	10:29:00 PST	Blow	Outside / Outside
	18:29-GMT	Position: 241° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	07	Good - 3	Er Total 3 — 0 Calves at sighting
	11:29:00 PST	Other / Blow	
	19:29-GMT	Position: 163° / 5027 m Dir: West; Behavior: Slow travel <i>Cue-tip "other" not explained</i>	
	11:38:00 PST	Blow	
	19:38-GMT	Position: 169° / 5027 m Dir: West; Behavior: Slow travel	
	11:47:00 PST	Blow	
	19:47-GMT	Position: 179° / 5027 m Dir: West; Behavior: Slow travel	
	11:55:00 PST	Blow	
	19:55-GMT	Position: 188° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	12:04:00 PST	Blow	
	20:04-GMT	Position: 200° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	12:12:00 PST	Blow	
	20:12-GMT	Position: 211° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	12:22:00 PST	Blow	
	20:22-GMT	Position: 224° / 5027 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	12:29:00 PST	Blow	Outside / Outside
	20:29-GMT	Position: 233° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	11 Good - 3	Er Total 3 — 0 Calves at sighting	
	13:34:00 PST	ni / Blow	
	21:34-GMT	Position: 128° / 5027 m Dir: West; Behavior: Slow travel	
	13:40:00 PST	Blow	
	21:40-GMT	Position: 130° / 3528 m Dir: West; Behavior: Slow travel	
	13:50:00 PST	ni	
	21:50-GMT	Position: 134° / 3528 m Dir: West; Behavior: Slow travel	
	13:56:00 PST	Blow	
	21:56-GMT	Position: 140° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	14:03:00 PST	Blow	
	22:03-GMT	Position: 149° / 3088 m Dir: West; Behavior: Slow travel • Rolling	
	14:08:00 PST	Blow	
	22:08-GMT	Position: 153° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:14:00 PST	Blow	
	22:14-GMT	Position: 162° / 1922 m Dir: West; Behavior: Slow travel	
	14:17:00 PST	Blow	
	22:17-GMT	Position: 167° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14:25:00 PST	Blow	
	22:25-GMT	Position: 183° / 1922 m Dir: West; Behavior: Slow travel	
	14:28:00 PST	Blow	
	22:28-GMT	Position: 190° / 1922 m Dir: West; Behavior: Slow travel	
	14:32:00 PST	Blow	
	22:32-GMT	Position: 199° / 2260 m Dir: West; Behavior: Slow travel	
	14:35:00 PST	Blow	
	22:35-GMT	Position: 206° / 1922 m Dir: West; Behavior: Slow travel	
	15:10:00 PST	Blow	Inside / Outside
	23:10-GMT	Position: 253° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	16 Fair - 3	Er Total 2 — 0 Calves at sighting	
	16:51:00 PST	ni / Blow	
	0:51; 2/28/2011-GMT	Position: 149° / 3528 m Dir: West; Behavior: Slow travel	
	17:05:00 PST	Blow	
	1:05; 2/28/2011-GMT	Position: 159° / 3528 m Dir: West; Behavior: Slow travel • Rolling	
	17:14:00 PST	Blow	
	1:14; 2/28/2011-GMT	Position: 167° / 3528 m Dir: West; Behavior: Slow travel	
	17:18:00 PST	Blow	nd / nd
	1:18; 2/28/2011-GMT	Position: 171° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
Feb 28	Total 8 Calves 0	Er Gray whale (northbound)	
Day 22 of 105			
Sighting Number	11 Good - 0	Er Total 2 — 0 Calves at sighting	
	12:04:00 PST	ni / Blow	
	20:04-GMT	Position: 110° / 2749 m Dir: West; Behavior: Slow travel	
	12:07:00 PST	Blow	
	20:07-GMT	Position: 112° / 2749 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	12:08:00 PST 20:08-GMT	Blow Position: 115° / 2260 m Dir: West; Behavior: Slow travel	
	12:12:00 PST 20:12-GMT	Blow Position: 118° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	12:17:00 PST 20:17-GMT	Blow Position: 125° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
	12:22:00 PST 20:22-GMT	Blow Position: 137° / 946 m Dir: West; Behavior: Slow travel	
	12:25:00 PST 20:25-GMT	Blow Position: 151° / m Dir: West; Behavior: Slow travel	
	12:27:00 PST 20:27-GMT	Blow Position: 159° / 696 m Dir: West; Behavior: Slow travel	
	12:30:00 PST 20:30-GMT	Blow Position: 175° / 629 m Dir: West; Behavior: Slow travel	
	12:31:00 PST 20:31-GMT	Blow Position: 184° / 574 m Dir: West; Behavior: Slow travel	
	12:32:00 PST 20:32-GMT	Blow Position: 192° / 528 m Dir: West; Behavior: Slow travel	
	12:35:00 PST 20:35-GMT	Blow Position: 225° / 913 m Dir: West; Behavior: Slow travel	
	12:37:00 PST 20:37-GMT	Blow Position: 238° / 696 m Dir: West; Behavior: Slow travel	
	12:40:00 PST 20:40-GMT	Blow Position: 253° / 1020 m Dir: West; Behavior: Slow travel	
	12:42:00 PST 20:42-GMT	Blow Position: 256° / 1106 m Dir: West; Behavior: Slow travel	
	12:44:00 PST 20:44-GMT	Blow Position: 258° / 1483 m Dir: West; Behavior: Slow travel	Inside / Outside
Sighting Number	15	Good - 4	Er Total 2 — 0 Calves at sighting
	13:08:00 PST 21:08-GMT	ni / Blow Position: 108° / 5027 m Dir: West; Behavior: Slow travel	
	13:20:00 PST 21:20-GMT	Blow Position: 109° / 5027 m Dir: West; Behavior: Slow travel	
	13:28:00 PST 21:28-GMT	Blow Position: 113° / 2749 m Dir: West; Behavior: Slow travel	
	13:34:00 PST 21:34-GMT	Blow Position: 117° / 3088 m Dir: West; Behavior: Slow travel	
	13:44:00 PST 21:44-GMT	Blow Position: 116° / 2260 m Dir: West; Behavior: Slow travel	
	13:47:00 PST 21:47-GMT	Blow Position: 132° / 1483 m Dir: West; Behavior: Slow travel	
	13:52:00 PST 21:52-GMT	Blow Position: 149° / 1106 m Dir: West; Behavior: Slow travel	
	13:57:00 PST 21:57-GMT	Blow Position: 189° / 678 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	14:00:00 PST	Blow	
	22:00-GMT	Position: 221° / 574 m Dir: West; Behavior: Slow travel	
	14:06:00 PST	Blow	Inside / Outside
	22:06-GMT	Position: 255° / 946 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	16 Good - 4	Er Total 4 — 0 Calves at sighting	
	14:11:00 PST	ni / Blow	
	22:11-GMT	Position: 204° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	14:21:00 PST	Blow	Outside / Outside
	22:21-GMT	Position: 218° / 3528 m Dir: West; Behavior: Slow travel	
<hr/>			
Mar 01	Total 8 Calves 0	Er Gray whale (northbound)	
Day 23 of 105			
Sighting Number	11 Good - 1	Er Total 2 — 0 Calves at sighting	
	11:21:00 PST	ni / Blow	
	19:21-GMT	Position: 142° / 5027 m Dir: West; Behavior: Slow travel	
	11:31:00 PST	Blow	
	19:31-GMT	Position: 150° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	11:35:00 PST	Blow	
	19:35-GMT	Position: 151° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	11:42:00 PST	Blow	
	19:42-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel	
	11:45:00 PST	Blow	
	19:45-GMT	Position: 158° / 3528 m Dir: West; Behavior: Slow travel	
	11:53:00 PST	Blow	
	19:53-GMT	Position: 163° / 3528 m Dir: West; Behavior: Slow travel • Rolling • Fluke	
	12:02:00 PST	Blow	
	20:02-GMT	Position: 174° / 2749 m Dir: West; Behavior: Slow travel	
	12:06:00 PST	Blow	
	20:06-GMT	Position: 182° / 2749 m Dir: West; Behavior: Slow travel	
	12:10:00 PST	Blow	
	20:10-GMT	Position: 188° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	12:25:00 PST	Blow	
	20:25-GMT	Position: 212° / 3088 m Dir: West; Behavior: Slow travel	
	12:40:00 PST	Blow	Outside / Outside
	20:40-GMT	Position: 235° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	16 Excellent - 1	Er Total 1 — 0 Calves at sighting	
	13:06:00 PST	ni / Blow	
	21:06-GMT	Position: 111° / 2260 m Dir: West; Behavior: Slow travel	
	13:10:00 PST	Blow	
	21:10-GMT	Position: 115° / 1674 m Dir: West; Behavior: Slow travel	
	13:15:00 PST	Blow	
	21:15-GMT	Position: 123° / 1483 m Dir: West; Behavior: Slow travel	
	13:19:00 PST	Blow	
	21:19-GMT	Position: 131° / 1020 m Dir: West; Behavior: Slow travel	
	13:20:00 PST	Blow	
	21:20-GMT	Position: 139° / 946 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	13:21:00 PST	Blow	
	21:21-GMT	Position: 141° / 946 m Dir: West; Behavior: Slow travel	
	13:24:00 PST	Blow	
	21:24-GMT	Position: 154° / 827 m Dir: West; Behavior: Slow travel <i>moving faster</i>	
	13:25:00 PST	Body	
	21:25-GMT	Position: 161° / 735 m Dir: West; Behavior: Slow travel	
	13:29:00 PST	Blow	
	21:29-GMT	Position: 193° / 778 m Dir: West; Behavior: Slow travel	
	13:32:00 PST	Blow	
	21:32-GMT	Position: 210° / 913 m Dir: West; Behavior: Slow travel	
	13:34:00 PST	Blow	
	21:34-GMT	Position: 216° / 778 m Dir: West; Behavior: Slow travel	
	13:36:00 PST	Blow	
	21:36-GMT	Position: 228° / 1106 m Dir: West; Behavior: Slow travel	
	13:40:00 PST	Blow	Inside / Outside
	21:40-GMT	Position: 238° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	21	Excellent - 1	Er Total 3 — 0 Calves at sighting
	13:45:00 PST	Phone / Blow	
	21:45-GMT	Position: 208° / 3528 m Dir: West; Behavior: Slow travel <i>Condor tip: told us to look</i>	
	13:49:00 PST	Blow	
	21:49-GMT	Position: 213° / 5027 m Dir: West; Behavior: Slow travel	
	13:53:00 PST	Blow	Outside / Outside
	21:53-GMT	Position: 217° / 5027 m Dir: West; Behavior: Slow travel • Fluke <i>counted 3</i>	
Sighting Number	22	Excellent - 1	Er Total 2 — 0 Calves at sighting
	14:11:00 PST	Phone / Body	
	22:11-GMT	Position: 154° / 3088 m Dir: West; Behavior: Slow travel • Fluke <i>Condor tip: told us to look</i>	
	14:19:00 PST	Blow	
	22:19-GMT	Position: 164° / 3088 m Dir: West; Behavior: Slow travel <i>body seen closer</i>	
	14:24:00 PST	Body	
	22:24-GMT	Position: 174° / 1403 m Dir: West; Behavior: Slow travel <i>2 whales, far apart</i>	
	14:28:00 PST	Blow	
	22:28-GMT	Position: 186° / 1674 m Dir: West; Behavior: Slow travel <i>6 blows</i>	
	14:36:00 PST	Blow	
	22:36-GMT	Position: 215° / 1922 m Dir: West; Behavior: Slow travel	
	14:47:00 PST	Blow	
	22:47-GMT	Position: 246° / 2749 m Dir: West; Behavior: Slow travel	

Mar 02 Total 2 Calves 0
Day 24 of 105

Er Gray whale (northbound)

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	05 Fair - 3	Er Total 2 — 0 Calves at sighting	
	13:50:00 PST	ni / Blow	
	21:50-GMT	Position: 124° / 2749 m Dir: West; Behavior: Slow travel	
	13:57:00 PST	Blow	
	21:57-GMT	Position: 131° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:04:00 PST	Blow	
	22:04-GMT	Position: 144° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14:06:00 PST	Blow	
	22:06-GMT	Position: 150° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14:11:00 PST	Blow	
	22:11-GMT	Position: 159° / 1483 m Dir: West; Behavior: Slow travel	
	14:16:00 PST	Body	
	22:16-GMT	Position: 188° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	14:21:00 PST	Body	
	22:21-GMT	Position: 205° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
	14:29:00 PST	Blow	
	22:29-GMT	Position: 228° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14:31:00 PST	Blow	
	22:31-GMT	Position: 234° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14:36:00 PST	Blow	
	22:36-GMT	Position: 241° / 2260 m Dir: West; Behavior: Slow travel	
		<i>crew boat approaching head on</i>	
	14:38:00 PST	Blow	Inside / Outside
	22:38-GMT	Position: 243° / 2749 m Dir: West; Behavior: Slow travel	
Mar 03 Day 25 of 105	Total 2 Calves 0	Er Gray whale (northbound)	
Sighting Number	07 Fair - 1	Er Total 1 — 0 Calves at sighting	
	9:59:00 PST	SD / Blow	
	17:59-GMT	Position: 168° / 600 m Dir: West; Behavior: Slow travel	
	10:00:00 PST	Body	
	18:00-GMT	Position: 187° / 528 m Dir: West; Behavior: Slow travel	
	10:04:00 PST	Blow	
	18:04-GMT	Position: 245° / 778 m Dir: West; Behavior: Slow travel	
	10:08:00 PST	Blow	Inside / Through
	18:08-GMT	Position: 272° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	20 Fair - 3	Er Total 1 — 0 Calves at sighting	
	15:43:00 PST	ni / Blow	
	23:43-GMT	Position: 134° / 3088 m Dir: West; Behavior: Slow travel	
	16:00:00 PST	Blow	
	0:00; 3/4/2011-GMT	Position: 146° / 3088 m Dir: West; Behavior: Slow travel	
	16:09:00 PST	Blow	
	0:09; 3/4/2011-GMT	Position: 162° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	16:14:00 PST	Blow	
	0:14; 3/4/2011-GMT	Position: 173° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	16:22:00 PST	Blow	
	0:22; 3/4/2011-GMT	Position: 203° / 1674 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	16:32:00 PST	Blow	ni / ni
	0:32; 3/4/2011-GMT	Position: 230° / 1483 m Dir: West; Behavior: Slow travel	
Mar 04 Total 2 Calves 0 Day 26 of 105	Er Gray whale (northbound)		
Sighting Number	01 Fair - 1	Er Total 2 — 0 Calves at sighting	
	9:30:00 PST	ni / Body	
	17:30-GMT	Position: 184° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	9:37:00 PST	Blow	
	17:37-GMT	Position: 201° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	9:38:00 PST	Blow	
	17:38-GMT	Position: 202° / 2260 m Dir: West; Behavior: Slow travel	
	9:54:00 PST	Blow	
	17:54-GMT	Position: 232° / 3528 m Dir: West; Behavior: Slow travel	
	10:01:00 PST	Blow	Outside / Outside
	18:01-GMT	Position: 241° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
Mar 05 Total 5 Calves 0 Day 27 of 105	Er Gray whale (northbound)		
Sighting Number	30 Fair - 3	Er Total 5 — 0 Calves at sighting	
	16:12:00 PST	ni / Blow	
	0:12; 3/6/2011-GMT	Position: 211° / 5027 m Dir: West; Behavior: Slow travel	
	16:21:00 PST	Blow	
	0:21; 3/6/2011-GMT	Position: 217° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	16:30:00 PST	Blow	
	0:30; 3/6/2011-GMT	Position: 223° / 5027 m Dir: West; Behavior: Slow travel	
	16:32:00 PST	Blow	
	0:32; 3/6/2011-GMT	Position: 224° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	16:41:00 PST	ni	Outside / Outside
	0:41; 3/6/2011-GMT	Position: 230° / 13138 m Dir: West; Behavior: Slow travel	
Mar 08 Total 17 Calves 0 Day 30 of 105	Er Gray whale (northbound)		
Sighting Number	01 Fair - 3	Er Total 5 — 0 Calves at sighting	
	8:52:00 PST	ni / Blow	
	16:52-GMT	Position: 160° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	8:58:00 PST	Blow	
	16:58-GMT	Position: 170° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:04:00 PST	Blow	
	17:04-GMT	Position: 174° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:07:00 PST	Blow	
	17:07-GMT	Position: 179° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:10:00 PST	Blow	
	17:10-GMT	Position: 184° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:13:00 PST	Blow	
	17:13-GMT	Position: 190° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:16:00 PST	Blow	
	17:16-GMT	Position: 194° / 2749 m Dir: West; Behavior: Slow travel	
	9:23:00 PST	Blow	
	17:23-GMT	Position: 204° / 2749 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	9:28:00 PST	Blow	
	17:28-GMT	Position: 214° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:33:00 PST	Blow	
	17:33-GMT	Position: 221° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	9:37:00 PST	Blow	
	17:37-GMT	Position: 228° / 1483 m Dir: West; Behavior: Slow travel	
	9:45:00 PST	Blow	Inside / Outside
	17:45-GMT	Position: 237° / 2749 m Dir: West; Behavior: Slow travel	
Sighting Number	04 Fair - 3	Er Total 2 — 0 Calves at sighting	
	9:33:00 PST	ni / Blow	
	17:33-GMT	Position: 131° / 1483 m Dir: West; Behavior: Slow travel	
	9:46:00 PST	Body	
	17:46-GMT	Position: 149° / 1106 m Dir: West; Behavior: Slow travel	
	9:54:00 PST	Blow	
	17:54-GMT	Position: 184° / 1106 m Dir: West; Behavior: Slow travel	
	9:59:00 PST	Blow	
	17:59-GMT	Position: 215° / 1106 m Dir: West; Behavior: Slow travel	
	10:06:00 PST	Blow	Inside / Outside
	18:06-GMT	Position: 245° / 1331 m Dir: West; Behavior: Slow travel	
Sighting Number	10 Poor - 4	Er Total 3 — 0 Calves at sighting	
	11:32:00 PST	ni / Blow	
	19:32-GMT	Position: 146° / 3528 m Dir: West; Behavior: Slow travel	
	11:37:00 PST	Blow	
	19:37-GMT	Position: 149° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	11:41:00 PST	Blow	
	19:41-GMT	Position: 152° / 3528 m Dir: West; Behavior: Slow travel	
	11:44:00 PST	Blow	
	19:44-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	11 Poor - 4	Er Total 3 — 0 Calves at sighting	
	11:56:00 PST	ni / Blow	
	19:56-GMT	Position: 137° / 2749 m Dir: West; Behavior: Slow travel	
Sighting Number	14 Poor - 4	Er Total 1 — 0 Calves at sighting	
	12:56:00 PST	ni / Blow	
	20:56-GMT	Position: 127° / 946 m Dir: West; Behavior: Slow travel	
	13:11:00 PST	Blow	Inside / Outside
	21:11-GMT	Position: 226° / 883 m Dir: West; Behavior: Slow travel	
Sighting Number	17 Fair - 3	Er Total 3 — 0 Calves at sighting	
	14:29:00 PST	ni / Blow	
	22:29-GMT	Position: 127° / 3528 m Dir: West; Behavior: Slow travel	
	14:34:00 PST	Blow	
	22:34-GMT	Position: 129° / 3528 m Dir: West; Behavior: Slow travel	
	14:40:00 PST	Blow	
	22:40-GMT	Position: 131° / 3528 m Dir: West; Behavior: Slow travel	
	14:45:00 PST	Blow	
	22:45-GMT	Position: 134° / 3528 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	14:53:00 PST	Blow	
	22:53-GMT	Position: 137° / 3528 m Dir: West; Behavior: Slow travel	
	15:00:00 PST	Blow	
	23:00-GMT	Position: 142° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	15:11:00 PST	Blow	
	23:11-GMT	Position: 150° / 3088 m Dir: West; Behavior: Slow travel	
	15:18:00 PST	Blow	
	23:18-GMT	Position: 155° / 3088 m Dir: West; Behavior: Slow travel	
	15:22:00 PST	Body	
	23:22-GMT	Position: 162° / 2749 m Dir: West; Behavior: Slow travel	
	15:28:00 PST	Body	
	23:28-GMT	Position: 169° / 2749 m Dir: West; Behavior: Slow travel	
	15:37:00 PST	Blow	
	23:37-GMT	Position: 183° / 2749 m Dir: West; Behavior: Slow travel	
	15:46:00 PST	Blow	
	23:46-GMT	Position: 194° / 2749 m Dir: West; Behavior: Slow travel	
	15:54:00 PST	Blow	
	23:54-GMT	Position: 204° / 2749 m Dir: West; Behavior: Slow travel	
	16:02:00 PST	Blow	
	0:02; 3/9/2011-GMT	Position: 213° / 3528 m Dir: West; Behavior: Slow travel	
	16:10:00 PST	Blow	
	0:10; 3/9/2011-GMT	Position: 219° / 3528 m Dir: West; Behavior: Slow travel	
	16:12:00 PST	Blow	
	0:12; 3/9/2011-GMT	Position: 220° / 3088 m Dir: West; Behavior: Slow travel	
	16:20:00 PST	Blow	
	0:20; 3/9/2011-GMT	Position: 228° / 3088 m Dir: West; Behavior: Slow travel	
	16:31:00 PST	Blow	Outside / Outside
	0:31; 3/9/2011-GMT	Position: 236° / 2749 m Dir: West; Behavior: Slow travel	

Mar 09 Total 5 Calves 0
Day 31 of 105

Er Gray whale (northbound)

Sighting Number 11 Fair - 2 Er Total 1 — 0 Calves at sighting

	10:59:00 PST	ni / Blow	
	18:59-GMT	Position: 117° / 3528 m Dir: West; Behavior: Slow travel	
	11:08:00 PST	Blow	
	19:08-GMT	Position: 122° / 3088 m Dir: West; Behavior: Slow travel	
	11:10:00 PST	Blow	
	19:10-GMT	Position: 126° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	11:19:00 PST	Blow	
	19:19-GMT	Position: 131° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	11:48:00 PST	Blow	
	19:48-GMT	Position: 177° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
	11:58:00 PST	Blow	
	19:58-GMT	Position: 206° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	12:10:00 PST	Blow	Inside / Outside
	20:10-GMT	Position: 231° / 2260 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	19 Fair - 2	Er Total 1 — 0 Calves at sighting	
	13:10:00 PST	ni / Body	
	21:10-GMT	Position: 174° / 778 m Dir: West; Behavior: Slow travel • Fluke	
	13:15:00 PST	Blow	
	21:15-GMT	Position: 214° / 1106 m Dir: West; Behavior: Slow travel	
	13:18:00 PST	Blow	
	21:18-GMT	Position: 223° / 778 m Dir: West; Behavior: Slow travel	
Sighting Number	23 Fair - 1	Er Total 3 — 0 Calves at sighting	
	14:04:00 PST	ni / Blow	
	22:04-GMT	Position: 136° / 2749 m Dir: West; Behavior: Slow travel	
	14:13:00 PST	Blow	
	22:13-GMT	Position: 145° / 2749 m Dir: West; Behavior: Slow travel	
	14:21:00 PST	Blow	
	22:21-GMT	Position: 151° / 2260 m Dir: West; Behavior: Slow travel	
	14:30:00 PST	Blow	
	22:30-GMT	Position: 169° / 1922 m Dir: West; Behavior: Slow travel	
	14:38:00 PST	Blow	
	22:38-GMT	Position: 184° / 1922 m Dir: West; Behavior: Slow travel	
	14:42:00 PST	Blow	
	22:42-GMT	Position: 203° / 1106 m Dir: West; Behavior: Slow travel	
	14:47:00 PST	Blow	
	22:47-GMT	Position: 215° / 2260 m Dir: West; Behavior: Slow travel	
	14:55:00 PST	Blow	
	22:55-GMT	Position: 235° / 2260 m Dir: West; Behavior: Slow travel	
Mar 10	Total 14 Calves 0	Er Gray whale (northbound)	
Day 32 of 105			
Sighting Number	01 Fair - 0	Er Total 2 — 0 Calves at sighting	
	8:55:00 PST	SD / Body	
	16:55-GMT	Position: 210° / 735 m Dir: West; Behavior: Slow travel	
	8:59:00 PST	Other	
	16:59-GMT	Position: 227° / 827 m Dir: West; Behavior: Slow travel • Fluke	
	9:01:00 PST	Blow	
	17:01-GMT	Position: 238° / 1020 m Dir: West; Behavior: Slow travel	
	9:05:00 PST	Blow	
	17:05-GMT	Position: 248° / 1020 m Dir: West; Behavior: Slow travel	
	9:08:00 PST	Blow	
	17:08-GMT	Position: 253° / 1674 m Dir: West; Behavior: Slow travel	
	9:13:00 PST	Blow	
	17:13-GMT	Position: 263° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	11 Fair - 0	Er Total 4 — 0 Calves at sighting	
	11:07:00 PST	ni / Blow	
	19:07-GMT	Position: 139° / 3528 m Dir: West; Behavior: Slow travel	
	11:11:00 PST	Blow	
	19:11-GMT	Position: 141° / 3528 m Dir: West; Behavior: Slow travel	
	11:16:00 PST	Blow	
	19:16-GMT	Position: 143° / 3528 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	11:20:00 PST	Blow	
	19:20-GMT	Position: 146° / 3528 m Dir: West; Behavior: Slow travel	
	11:25:00 PST	Blow	
	19:25-GMT	Position: 150° / 3528 m Dir: West; Behavior: Slow travel	
	11:31:00 PST	Blow	
	19:31-GMT	Position: 158° / 2749 m Dir: West; Behavior: Slow travel	
	11:38:00 PST	Blow	
	19:38-GMT	Position: 167° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	11:49:00 PST	Blow	
	19:49-GMT	Position: 192° / 1922 m Dir: West; Behavior: Slow travel	
	11:50:00 PST	Blow	
	19:50-GMT	Position: 119° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	11:59:00 PST	Blow	
	19:59-GMT	Position: 218° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	12:11:00 PST	Blow	
	20:11-GMT	Position: 246° / 2260 m Dir: West; Behavior: Slow travel • Breach • Fluke	
	12:25:00 PST	Blow	Inside / Outside
	20:25-GMT	Position: 260° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	22	Fair - 1	Er Total 3 — 0 Calves at sighting
	13:55:00 PST	ni / Blow	
	21:55-GMT	Position: 139° / 3528 m Dir: West; Behavior: Slow travel	
	14:01:00 PST	Blow	
	22:01-GMT	Position: 146° / 3528 m Dir: West; Behavior: Slow travel	
	14:14:00 PST	Blow	
	22:14-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel	
	14:30:00 PST	Blow	
	22:30-GMT	Position: 178° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:43:00 PST	Blow	
	22:43-GMT	Position: 193° / 2260 m Dir: West; Behavior: Slow travel	
	14:50:00 PST	Blow	
	22:50-GMT	Position: 204° / 3088 m Dir: West; Behavior: Slow travel	
	14:58:00 PST	Blow	
	22:58-GMT	Position: 213° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	15:05:00 PST	Blow	Outside / Outside
	23:05-GMT	Position: 224° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	24	Fair - 1	Er Total 4 — 0 Calves at sighting
	15:12:00 PST	ni / Blow	
	23:12-GMT	Position: 130° / 2260 m Dir: West; Behavior: Slow travel	
	15:19:00 PST	Blow	
	23:19-GMT	Position: 137° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	15:24:00 PST	Blow	
	23:24-GMT	Position: 149° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
	15:32:00 PST	Blow	
	23:32-GMT	Position: 180° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	15:39:00 PST	Blow	
	23:39-GMT	Position: 204° / 1331 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	15:48:00 PST	Blow	Inside / Outside
	23:48-GMT	Position: 232° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	27 Fair - 0	Er Total 1 — 0 Calves at sighting	
	15:43:00 PST	ni / Blow	
	23:43-GMT	Position: 216° / 455 m Dir: West; Behavior: Slow travel	
	15:50:00 PST	Blow	
	23:50-GMT	Position: 263° / 778 m Dir: West; Behavior: Slow travel	
	15:51:00 PST	Blow	
	23:51-GMT	Position: 264° / 1106 m Dir: West; Behavior: Slow travel	
<hr/>			
Mar 11	Total 7 Calves 0	Er Gray whale (northbound)	
Day 33 of 105			
Sighting Number	01 Poor - 2	Er Total 2 — 0 Calves at sighting	
	8:26:00 PST	ni / Blow	
	16:26-GMT	Position: 211° / 778 m Dir: West; Behavior: Slow travel	
	8:28:00 PST	Blow	
	16:28-GMT	Position: 232° / 883 m Dir: West; Behavior: Slow travel	
	8:35:00 PST	Blow	
	16:35-GMT	Position: 255° / 1020 m Dir: West; Behavior: Slow travel	
	8:44:00 PST	Blow	Inside / Outside
	16:44-GMT	Position: 279° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	19 Poor - 4	Er Total 4 — 0 Calves at sighting	
	16:13:00 PST	ni / Blow	
	0:13; 3/12/2011-GMT	Position: 195° / 3088 m Dir: West; Behavior: Slow travel	
	16:21:00 PST	Blow	
	0:21; 3/12/2011-GMT	Position: 211° / 3528 m Dir: West; Behavior: Slow travel	
	16:22:00 PST	Blow	
	0:22; 3/12/2011-GMT	Position: 213° / 3528 m Dir: West; Behavior: Slow travel	
	16:24:00 PST	Blow	
	0:24; 3/12/2011-GMT	Position: 216° / 3528 m Dir: West; Behavior: Slow travel	
	16:31:00 PST	Blow	
	0:31; 3/12/2011-GMT	Position: 226° / 3528 m Dir: West; Behavior: Slow travel	
	16:33:00 PST	Blow	
	0:33; 3/12/2011-GMT	Position: 227° / 3528 m Dir: West; Behavior: Slow travel	
	16:34:00 PST	Blow	
	0:34; 3/12/2011-GMT	Position: 230° / 3528 m Dir: West; Behavior: Slow travel	
	16:36:00 PST	Blow	
	0:36; 3/12/2011-GMT	Position: 232° / 3528 m Dir: West; Behavior: Slow travel	
	16:37:00 PST	Blow	Outside / Outside
	0:37; 3/12/2011-GMT	Position: 233° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	20 Fair - 4	Er Total 1 — 0 Calves at sighting	
	16:30:00 PST	ni / Blow	
	0:30; 3/12/2011-GMT	Position: 204° / 3528 m Dir: West; Behavior: Slow travel	
	16:30:00 PST	Blow	
	0:30; 3/12/2011-GMT	Position: 206° / 2749 m Dir: West; Behavior: Slow travel	
	16:38:00 PST	Blow	
	0:38; 3/12/2011-GMT	Position: 214° / 3088 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:46:00 PST	Blow	
	0:46; 3/12/2011-GMT	Position: 223° / 3088 m Dir: West; Behavior: Slow travel	
	16:50:00 PST	Blow	
	0:50; 3/12/2011-GMT	Position: 229° / 3088 m Dir: West; Behavior: Slow travel	
	16:56:00 PST	Blow	
	0:56; 3/12/2011-GMT	Position: 235° / 3088 m Dir: West; Behavior: Slow travel	
	16:59:00 PST	Blow	Outside / Outside
	0:59; 3/12/2011-GMT	Position: 236° / 3528 m Dir: West; Behavior: Slow travel	
<hr/>			
Mar 12	Total 14 Calves 0	Er Gray whale (northbound)	
Day 34 of 105			
Sighting Number	06	Fair - 3	Er Total 3 — 0 Calves at sighting
	9:47:00 PST	ni / Blow	
	17:47-GMT	Position: 166° / 3528 m Dir: West; Behavior: Slow travel	
	10:04:00 PST	Blow	
	18:04-GMT	Position: 182° / 3528 m Dir: West; Behavior: Slow travel	
	10:13:00 PST	Blow	
	18:13-GMT	Position: 192° / 3528 m Dir: West; Behavior: Slow travel	
	10:23:00 PST	Blow	
	18:23-GMT	Position: 206° / 3528 m Dir: West; Behavior: Slow travel	
	10:31:00 PST	Blow	Outside / Outside
	18:31-GMT	Position: 221° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	09	Fair - 3	Er Total 1 — 0 Calves at sighting
	10:22:00 PST	ni / Body	Inside / nd
	18:22-GMT	Position: 194° / 489 m Dir: West; Behavior: Slow travel	
Sighting Number	10	Fair - 3	Er Total 1 — 0 Calves at sighting
	10:48:00 PST	ni / Blow	
	18:48-GMT	Position: 174° / 3088 m Dir: West; Behavior: Slow travel	
	10:53:00 PST	Blow	
	18:53-GMT	Position: 182° / 3088 m Dir: West; Behavior: Slow travel	
	10:55:00 PST	Blow	
	18:55-GMT	Position: 186° / 3088 m Dir: West; Behavior: Slow travel	
	11:09:00 PST	Blow	
	19:09-GMT	Position: 210° / 3088 m Dir: West; Behavior: Slow travel	
	11:16:00 PST	Blow	
	19:16-GMT	Position: 217° / 3088 m Dir: West; Behavior: Slow travel	
	11:22:00 PST	Blow	Inside / Outside
	19:22-GMT	Position: 231° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	12	Fair - 2	Er Total 1 — 0 Calves at sighting
	11:09:00 PST	ni / Blow	
	19:09-GMT	Position: 152° / 1208 m Dir: West; Behavior: Slow travel	
	11:13:00 PST	Blow	Inside / nd
	19:13-GMT	Position: 176° / 883 m Dir: West; Behavior: Slow travel	
Sighting Number	13	Fair - 2	Er Total 1 — 0 Calves at sighting
	11:24:00 PST	ni / Blow	
	19:24-GMT	Position: 124° / 1674 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	11:29:00 PST	Blow	
	19:29-GMT	Position: 139° / 946 m Dir: West; Behavior: Slow travel	
	11:35:00 PST	Blow	
	19:35-GMT	Position: 177° / 696 m Dir: West; Behavior: Slow travel • Fluke	
	11:39:00 PST	Blow	Inside / Outside
	19:39-GMT	Position: 225° / 913 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	15 Fair - 2	Er Total 2 — 0 Calves at sighting	
	12:24:00 PST	ni / Blow	
	20:24-GMT	Position: 127° / 3088 m Dir: West; Behavior: Slow travel	
	12:29:00 PST	Blow	
	20:29-GMT	Position: 131° / 3088 m Dir: West; Behavior: Slow travel	
	12:35:00 PST	Blow	
	20:35-GMT	Position: 138° / 3088 m Dir: West; Behavior: Slow travel	
	12:42:00 PST	Blow	
	20:42-GMT	Position: 145° / 1483 m Dir: West; Behavior: Slow travel	
	12:52:00 PST	Blow	
	20:52-GMT	Position: 184° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
	13:04:00 PST	Blow	
	21:04-GMT	Position: 219° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
	13:11:00 PST	Blow	Inside / Outside
	21:11-GMT	Position: 270° / 1331 m Dir: West; Behavior: Slow travel	
Sighting Number	18 Fair - 2	Er Total 4 — 0 Calves at sighting	
	13:17:00 PST	ni / Blow	
	21:17-GMT	Position: 167° / 3528 m Dir: West; Behavior: Slow travel	
	13:22:00 PST	Blow	
	21:22-GMT	Position: 174° / 3528 m Dir: West; Behavior: Slow travel	
	13:28:00 PST	Blow	
	21:28-GMT	Position: 175° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:34:00 PST	Blow	
	21:34-GMT	Position: 181° / 3528 m Dir: West; Behavior: Slow travel	
	13:40:00 PST	Blow	
	21:40-GMT	Position: 187° / 5027 m Dir: West; Behavior: Slow travel	
	13:46:00 PST	Blow	
	21:46-GMT	Position: 196° / 3528 m Dir: West; Behavior: Slow travel	
	13:52:00 PST	Blow	
	21:52-GMT	Position: 200° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	14:00:00 PST	Blow	Outside / Outside
	22:00-GMT	Position: 210° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	23 Fair - 2	Er Total 1 — 0 Calves at sighting	
	16:49:00 PST	ni / Body	Inside / nd
	0:49; 3/13/2011-GMT	Position: 204° / 913 m Dir: West; Behavior: Slow travel	
Mar 13 Total 15 Calves 0			
Day 35 of 105			
Er Gray whale (northbound)			
Sighting Number	10 Fair - 2	Er Total 1 — 0 Calves at sighting	
	11:31:00 PDT	ni / Blow	
	18:31-GMT	Position: 112° / 1208 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	11:36:00 PDT	Blow	
	18:36-GMT	Position: 128° / 883 m Dir: West; Behavior: Slow travel	
	11:40:00 PDT	Blow	
	18:40-GMT	Position: 152° / 629 m Dir: West; Behavior: Slow travel	
	11:46:00 PDT	Body	
	18:46-GMT	Position: 226° / 600 m Dir: West; Behavior: Slow travel	
	11:52:00 PDT	Blow	Inside / nd
	18:52-GMT	Position: 256° / 778 m Dir: West; Behavior: Slow travel	
Sighting Number	11	Fair - 1	Er Total 4 — 0 Calves at sighting
	12:01:00 PDT	ni / Blow	
	19:01-GMT	Position: 140° / 3528 m Dir: West; Behavior: Slow travel	
	12:08:00 PDT	Blow	
	19:08-GMT	Position: 144° / 3528 m Dir: West; Behavior: Slow travel	
	12:19:00 PDT	Blow	
	19:19-GMT	Position: 154° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	12:37:00 PDT	Blow	
	19:37-GMT	Position: 167° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	12:44:00 PDT	Blow	
	19:44-GMT	Position: 175° / 2749 m Dir: West; Behavior: Slow travel	
	12:49:00 PDT	Blow	
	19:49-GMT	Position: 184° / 2749 m Dir: West; Behavior: Slow travel	
	12:56:00 PDT	Blow	
	19:56-GMT	Position: 196° / 2749 m Dir: West; Behavior: Slow travel	
	13:01:00 PDT	Blow	
	20:01-GMT	Position: 208° / 2749 m Dir: West; Behavior: Slow travel	
	13:12:00 PDT	Blow	Outside / Outside
	20:12-GMT	Position: 228° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	13	Fair - 1	Er Total 2 — 0 Calves at sighting
	12:30:00 PDT	ni / Blow	
	19:30-GMT	Position: 165° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	12:40:00 PDT	Body	
	19:40-GMT	Position: 184° / 2260 m Dir: West; Behavior: Slow travel	
	12:51:00 PDT	Blow	
	19:51-GMT	Position: 218° / 1674 m Dir: West; Behavior: Slow travel	
	13:07:00 PDT	Blow	Inside / Outside
	20:07-GMT	Position: 249° / 2260 m Dir: West; Behavior: Slow travel	
Sighting Number	18	Fair - 2	Er Total 2 — 0 Calves at sighting
	14:29:00 PDT	ni / Blow	
	21:29-GMT	Position: 160° / 2749 m Dir: West; Behavior: Slow travel	
	14:35:00 PDT	Blow	
	21:35-GMT	Position: 175° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:45:00 PDT	Blow	
	21:45-GMT	Position: 205° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	14:54:00 PDT	Blow	Inside / Outside
	21:54-GMT	Position: 232° / 2749 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	24 Good - 1	Er Total 1 — 0 Calves at sighting	
	15:37:00 PDT	ni / Body	
	22:37-GMT	Position: 155° / 539 m Dir: West; Behavior: Slow travel	
	15:45:00 PDT	Blow	Inside / Outside
	22:45-GMT	Position: 247° / 678 m Dir: West; Behavior: Slow travel	
Sighting Number	25 Good - 1	Er Total 1 — 0 Calves at sighting	
	15:50:00 PDT	ni / Blow	
	22:50-GMT	Position: 219° / 735 m Dir: West; Behavior: Slow travel	
	15:54:00 PDT	ni	
	22:54-GMT	Position: 251° / 827 m Dir: West; Behavior: Slow travel • Fluke	
	15:58:00 PDT	Blow	Inside / Outside
	22:58-GMT	Position: 263° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	<i>Condor Exp reported - S#23 + S#24 joined up</i>		
Sighting Number	29 Fair - 0	Er Total 4 — 0 Calves at sighting	
	16:46:00 PDT	ni / Blow	
	23:46-GMT	Position: 155° / 2749 m Dir: West; Behavior: Slow travel	
	16:54:00 PDT	Blow	
	23:54-GMT	Position: 166° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	17:04:00 PDT	Blow	ni / ni
	0:04; 3/14/2011-GMT	Position: 182° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
Mar 14	Total 14 Calves 0	Er Gray whale (northbound)	
Day 36 of 105			
Sighting Number	03 Fair - 1	Er Total 2 — 0 Calves at sighting	
	9:19:00 PDT	ni / Blow	
	16:19-GMT	Position: 152° / 3088 m Dir: West; Behavior: Slow travel	
	9:28:00 PDT	Blow	
	16:28-GMT	Position: 169° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	9:33:00 PDT	Blow	nd / nd
	16:33-GMT	Position: 179° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	06 Fair - 1	Er Total 2 — 0 Calves at sighting	
	9:52:00 PDT	ni / Blow	
	16:52-GMT	Position: 214° / 3528 m Dir: West; Behavior: Slow travel	
	10:03:00 PDT	Blow	
	17:03-GMT	Position: 221° / 3528 m Dir: West; Behavior: Slow travel • Spyhop	
	10:09:00 PDT	Blow	
	17:09-GMT	Position: 225° / 3528 m Dir: West; Behavior: Slow travel	
	10:13:00 PDT	Blow	
	17:13-GMT	Position: 228° / 3088 m Dir: West; Behavior: Slow travel • Spyhop • Rolling	
	<i>possible mating</i>		
	10:24:00 PDT	Blow	Outside / Outside
	17:24-GMT	Position: 232° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	09 Fair - 1	Er Total 1 — 0 Calves at sighting	
	10:22:00 PDT	ni / Body	Inside / Outside
	17:22-GMT	Position: 229° / 2749 m Dir: West; Behavior: Slow travel	
	<i>single sighting</i>		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	10 Fair - 1	Er Total 4 — 0 Calves at sighting	
	10:32:00 PDT	ni / Blow	
	17:32-GMT	Position: 167° / 3088 m Dir: West; Behavior: Slow travel	
	10:39:00 PDT	Blow	
	17:39-GMT	Position: 177° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	10:46:00 PDT	Blow	
	17:46-GMT	Position: 186° / 3088 m Dir: West; Behavior: Slow travel	
	10:53:00 PDT	Blow	
	17:53-GMT	Position: 201° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	11:02:00 PDT	Blow	
	18:02-GMT	Position: 216° / 3088 m Dir: West; Behavior: Slow travel	
	11:08:00 PDT	Blow	
	18:08-GMT	Position: 228° / 3088 m Dir: West; Behavior: Slow travel	
	11:20:00 PDT	Blow	Outside / Outside
	18:20-GMT	Position: 240° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	14 Fair - 2	Er Total 3 — 0 Calves at sighting	
	11:37:00 PDT	ni / Blow	
	18:37-GMT	Position: 159° / 5027 m Dir: West; Behavior: Slow travel	
	11:50:00 PDT	Blow	
	18:50-GMT	Position: 167° / 3528 m Dir: West; Behavior: Slow travel	
	11:57:00 PDT	Blow	
	18:57-GMT	Position: 175° / 3088 m Dir: West; Behavior: Slow travel	
	12:15:00 PDT	Blow	
	19:15-GMT	Position: 189° / 3528 m Dir: West; Behavior: Slow travel	
	12:28:00 PDT	Blow	
	19:28-GMT	Position: 203° / 3528 m Dir: West; Behavior: Slow travel	
	12:35:00 PDT	Blow	ni / ni
	19:35-GMT	Position: 210° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	22 Fair - 4	Er Total 2 — 0 Calves at sighting	
	13:28:00 PDT	ni / Blow	
	20:28-GMT	Position: 120° / 1483 m Dir: West; Behavior: Slow travel	
	13:35:00 PDT	Body	
	20:35-GMT	Position: 140° / 946 m Dir: West; Behavior: Slow travel	
	13:44:00 PDT	Blow	
	20:44-GMT	Position: 223° / 946 m Dir: West; Behavior: Slow travel	
	13:47:00 PDT	Blow	Inside / Outside
	20:47-GMT	Position: 245° / 1106 m Dir: West; Behavior: Slow travel	
Mar 15	Total 15 Calves 0	Er Gray whale (northbound)	
Day 37 of 105			
Sighting Number	03 Fair - 2	Er Total 3 — 0 Calves at sighting	
	10:37:00 PDT	ni / Blow	
	17:37-GMT	Position: 171° / 3528 m Dir: West; Behavior: Slow travel	
	10:42:00 PDT	Blow	
	17:42-GMT	Position: 176° / 3528 m Dir: West; Behavior: Slow travel	
	10:46:00 PDT	Blow	
	17:46-GMT	Position: 180° / 3088 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:57:00 PDT	Blow	
	17:57-GMT	Position: 191° / 3088 m Dir: West; Behavior: Slow travel	
	11:02:00 PDT	Blow	
	18:02-GMT	Position: 194° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	11:14:00 PDT	Blow	
	18:14-GMT	Position: 201° / 3088 m Dir: West; Behavior: Slow travel	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 204° / 3088 m Dir: West; Behavior: Slow travel	
	11:25:00 PDT	Blow	Outside / Outside
	18:25-GMT	Position: 206° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	04 Fair - 2	Er Total 5 — 0 Calves at sighting	
	11:05:00 PDT	ni / Blow	
	18:05-GMT	Position: 164° / 2749 m Dir: West; Behavior: Slow travel	
	11:09:00 PDT	Blow	
	18:09-GMT	Position: 170° / 2749 m Dir: West; Behavior: Slow travel	
	11:15:00 PDT	Blow	
	18:15-GMT	Position: 188° / 1922 m Dir: West; Behavior: Slow travel	
	11:20:00 PDT	Blow	
	18:20-GMT	Position: 200° / 1922 m Dir: West; Behavior: Slow travel	
	11:40:00 PDT	Blow	Outside / Outside
	18:40-GMT	Position: 215° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	05 Fair - 2	Er Total 4 — 0 Calves at sighting	
	11:21:00 PDT	ni / Blow	
	18:21-GMT	Position: 159° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	11:25:00 PDT	Blow	
	18:25-GMT	Position: 171° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
	11:31:00 PDT	Blow	
	18:31-GMT	Position: 194° / 1674 m Dir: West; Behavior: Slow travel	
	11:35:00 PDT	Blow	
	18:35-GMT	Position: 207° / 1922 m Dir: West; Behavior: Slow travel	
	11:42:00 PDT	Blow	
	18:42-GMT	Position: 234° / 1922 m Dir: West; Behavior: Slow travel	
	11:44:00 PDT	Blow	
	18:44-GMT	Position: 241° / 2260 m Dir: West; Behavior: Slow travel	
	11:48:00 PDT	Blow	Inside / Outside
	18:48-GMT	Position: 250° / 2749 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Fair - 3	Er Total 1 — 0 Calves at sighting	
	11:46:00 PDT	ni / Blow	
	18:46-GMT	Position: 171° / 3088 m Dir: West; Behavior: Slow travel <i>sparkle at SE</i>	
	11:58:00 PDT	Blow	
	18:58-GMT	Position: 188° / 3088 m Dir: West; Behavior: Slow travel	
	12:02:00 PDT	Blow	
	19:02-GMT	Position: 194° / 3088 m Dir: West; Behavior: Slow travel	
	12:04:00 PDT	Blow	Outside / Outside
	19:04-GMT	Position: 199° / 3088 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
Sighting Number	09 Fair - 3	Er Total 2 — 0 Calves at sighting	
	14:02:00 PDT	ni / Blow	
	21:02-GMT	Position: 132° / 2260 m Dir: West; Behavior: Slow travel	
	14:08:00 PDT	Blow	
	21:08-GMT	Position: 141° / 1922 m Dir: West; Behavior: Slow travel	
	14:16:00 PDT	Blow	
	21:16-GMT	Position: 162° / 1483 m Dir: West; Behavior: Slow travel	
	14:17:00 PDT	Blow	
	21:17-GMT	Position: 171° / 1403 m Dir: West; Behavior: Slow travel	
	14:19:00 PDT	Blow	
	21:19-GMT	Position: 181° / 1331 m Dir: West; Behavior: Slow travel	
	14:24:00 PDT	Blow	
	21:24-GMT	Position: 201° / 1331 m Dir: West; Behavior: Slow travel	
	14:36:00 PDT	Blow	Inside / Outside
	21:36-GMT	Position: 243° / 2260 m Dir: West; Behavior: Slow travel	
Mar 16	Total 7 Calves 0	Er Gray whale (northbound)	
Day 38 of 105			
Sighting Number	01 Poor - 3	Er Total 1 — 0 Calves at sighting	
	8:59:00 PDT	ni / Blow	
	15:59-GMT	Position: 125° / 1922 m Dir: West; Behavior: Slow travel	
	9:03:00 PDT	Blow	
	16:03-GMT	Position: 129° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	9:06:00 PDT	Blow	
	16:06-GMT	Position: 135° / 696 m Dir: West; Behavior: Slow travel • Fluke	
	9:10:00 PDT	Blow	
	16:10-GMT	Position: 164° / 528 m Dir: West; Behavior: Slow travel	
	9:15:00 PDT	Blow	
	16:15-GMT	Position: 233° / 735 m Dir: West; Behavior: Slow travel	
	9:18:00 PDT	Blow	
	16:18-GMT	Position: 258° / 883 m Dir: West; Behavior: Slow travel	
	9:20:00 PDT	ni	Inside / Through
	16:20-GMT	Position: 269° / 1331 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Poor - 3	Er Total 3 — 0 Calves at sighting	
	10:44:00 PDT	ni / Blow	
	17:44-GMT	Position: 147° / 1106 m Dir: West; Behavior: Slow travel	
		<i>2 large + 1 juvenile</i>	
	10:52:00 PDT	Blow	
	17:52-GMT	Position: 213° / 827 m Dir: West; Behavior: Slow travel	
		<i>on effort</i>	
	10:57:00 PDT	Blow	Inside / Outside
	17:57-GMT	Position: 245° / 1331 m Dir: West; Behavior: Slow travel	
		<i>off effort</i>	
Sighting Number	11 Fair - 3	Er Total 3 — 0 Calves at sighting	
	11:43:00 PDT	ni / Blow	
	18:43-GMT	Position: 173° / 3528 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	11:53:00 PDT	Blow	
	18:53-GMT	Position: 182° / 3528 m Dir: West; Behavior: Slow travel	
	11:55:00 PDT	Blow	Outside / Outside
	18:55-GMT	Position: 188° / 3528 m Dir: West; Behavior: Slow travel <i>disappeared - possibly went out of visible range</i>	
Mar 17 Day 39 of 105	Total 24 Calves 0	Er Gray whale (northbound)	
Sighting Number	01 Fair - 1	Er Total 5 — 0 Calves at sighting	
	9:12:00 PDT	ni / Blow	
	16:12-GMT	Position: 136° / 3528 m Dir: West; Behavior: Slow travel	
	9:14:00 PDT	Blow	
	16:14-GMT	Position: 137° / 3528 m Dir: West; Behavior: Slow travel	
	9:21:00 PDT	Blow	
	16:21-GMT	Position: 139° / 3528 m Dir: West; Behavior: Slow travel	
	9:31:00 PDT	Blow	
	16:31-GMT	Position: 143° / 3528 m Dir: West; Behavior: Slow travel	
	9:34:00 PDT	Blow	
	16:34-GMT	Position: 140° / 3528 m Dir: West; Behavior: Slow travel	
	9:37:00 PDT	Blow	
	16:37-GMT	Position: 146° / 3528 m Dir: West; Behavior: Slow travel	
	9:41:00 PDT	Blow	
	16:41-GMT	Position: 148° / 3528 m Dir: West; Behavior: Slow travel	
	9:45:00 PDT	Blow	
	16:45-GMT	Position: 151° / 3528 m Dir: West; Behavior: Slow travel	
	9:59:00 PDT	Blow	
	16:59-GMT	Position: 166° / 3088 m Dir: West; Behavior: Slow travel	
	10:06:00 PDT	Blow	
	17:06-GMT	Position: 177° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	11 Fair - 3	Er Total 2 — 0 Calves at sighting	
	11:09:00 PDT	ni / Blow	
	18:09-GMT	Position: 121° / 3528 m Dir: West; Behavior: Slow travel	
	11:15:00 PDT	Blow	
	18:15-GMT	Position: 124° / 3088 m Dir: West; Behavior: Slow travel	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 127° / 3088 m Dir: West; Behavior: Slow travel	
	11:21:00 PDT	Blow	
	18:21-GMT	Position: 130° / 2749 m Dir: West; Behavior: Slow travel	
	11:28:00 PDT	Blow	
	18:28-GMT	Position: 134° / 2749 m Dir: West; Behavior: Slow travel	
	11:30:00 PDT	Blow	
	18:30-GMT	Position: 136° / 2749 m Dir: West; Behavior: Slow travel	
	11:32:00 PDT	Blow	
	18:32-GMT	Position: 140° / 2749 m Dir: West; Behavior: Slow travel	
	11:37:00 PDT	Blow	
	18:37-GMT	Position: 146° / 2260 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	11:40:00 PDT	Blow	
	18:40-GMT	Position: 150° / 2260 m Dir: West; Behavior: Slow travel	
	11:46:00 PDT	Blow	
	18:46-GMT	Position: 164° / 1674 m Dir: West; Behavior: Slow travel	
	11:54:00 PDT	Blow	
	18:54-GMT	Position: 186° / 1674 m Dir: West; Behavior: Slow travel	
	12:02:00 PDT	Blow	
	19:02-GMT	Position: 217° / 1674 m Dir: West; Behavior: Slow travel	
	12:08:00 PDT	Blow	
	19:08-GMT	Position: 235° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	13	Fair - 3	Er Total 3 — 0 Calves at sighting
	12:08:00 PDT	ni / Blow	
	19:08-GMT	Position: 149° / 3528 m Dir: West; Behavior: Slow travel	
	12:18:00 PDT	Blow	
	19:18-GMT	Position: 159° / 3528 m Dir: West; Behavior: Slow travel	
	12:29:00 PDT	Blow	nd / Outside
	19:29-GMT	Position: 172° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	14	Fair - 3	Er Total 5 — 0 Calves at sighting
	12:17:00 PDT	ni / Blow	
	19:17-GMT	Position: 137° / 3528 m Dir: West; Behavior: Slow travel	
	12:39:00 PDT	Blow	
	19:39-GMT	Position: 144° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	12:47:00 PDT	Blow	
	19:47-GMT	Position: 150° / 3088 m Dir: West; Behavior: Slow travel	
	12:54:00 PDT	Blow	
	19:54-GMT	Position: 155° / 3088 m Dir: West; Behavior: Slow travel	
	12:58:00 PDT	Blow	
	19:58-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel	
	13:02:00 PDT	Blow	
	20:02-GMT	Position: 160° / 3088 m Dir: West; Behavior: Slow travel	
	13:15:00 PDT	Blow	
	20:15-GMT	Position: 174° / 3088 m Dir: West; Behavior: Slow travel	
	13:25:00 PDT	Blow	
	20:25-GMT	Position: 187° / 3088 m Dir: West; Behavior: Slow travel	
	13:35:00 PDT	Blow	
	20:35-GMT	Position: 204° / 2749 m Dir: West; Behavior: Slow travel	
	14:01:00 PDT	Blow	Outside / Outside
	21:01-GMT	Position: 234° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	15	Fair - 3	Er Total 1 — 0 Calves at sighting
	12:21:00 PDT	ni / Blow	
	19:21-GMT	Position: 133° / 946 m Dir: West; Behavior: Slow travel	
	12:25:00 PDT	Blow	
	19:25-GMT	Position: 156° / 696 m Dir: West; Behavior: Slow travel	
	12:30:00 PDT	Blow	
	19:30-GMT	Position: 209° / 600 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	12:38:00 PDT	Blow	
	19:38-GMT	Position: 226° / 696 m Dir: West; Behavior: Slow travel	
	12:41:00 PDT	Blow	Inside / nd
	19:41-GMT	Position: 244° / 778 m Dir: West; Behavior: Slow travel	
Sighting Number	18 Fair - 4	Er Total 4 — 0 Calves at sighting	
	13:54:00 PDT	ni / Blow	
	20:54-GMT	Position: 149° / 3088 m Dir: West; Behavior: Slow travel	
	14:11:00 PDT	Blow	
	21:11-GMT	Position: 181° / 2260 m Dir: West; Behavior: Slow travel	
	14:11:00 PDT	Blow	
	21:11-GMT	Position: 196° / 1922 m Dir: West; Behavior: Slow travel	
	14:12:00 PDT	Blow	
	21:12-GMT	Position: 185° / 1922 m Dir: West; Behavior: Slow travel	
	14:15:00 PDT	Blow	
	21:15-GMT	Position: 192° / 1922 m Dir: West; Behavior: Slow travel	
	14:29:00 PDT	Blow	
	21:29-GMT	Position: 233° / 2260 m Dir: West; Behavior: Slow travel	
	14:30:00 PDT	Blow	Inside / Outside
	21:30-GMT	Position: 236° / 2260 m Dir: West; Behavior: Slow travel	
Sighting Number	22 Fair - 4	Er Total 4 — 0 Calves at sighting	
	14:53:00 PDT	ni / Blow	
	21:53-GMT	Position: 158° / 3528 m Dir: West; Behavior: Slow travel	
	3+7		
	14:59:00 PDT	Blow	
	21:59-GMT	Position: 164° / 3088 m Dir: West; Behavior: Slow travel	
	15:04:00 PDT	Blow	
	22:04-GMT	Position: 170° / 2749 m Dir: West; Behavior: Slow travel	
	15:10:00 PDT	Blow	
	22:10-GMT	Position: 175° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	15:16:00 PDT	Blow	
	22:16-GMT	Position: 189° / 2749 m Dir: West; Behavior: Slow travel	
	15:20:00 PDT	Blow	
	22:20-GMT	Position: 201° / 2749 m Dir: West; Behavior: Slow travel	
	15:23:00 PDT	Blow	nd / Outside
	22:23-GMT	Position: 207° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
Mar 18 Total 12 Calves 0			
Day 40 of 105			
Er Gray whale (northbound)			
Sighting Number	05 Fair - 3	Er Total 7 — 0 Calves at sighting	
	10:24:00 PDT	ni / Blow	
	17:24-GMT	Position: 178° / 5027 m Dir: West; Behavior: Slow travel	
	10:31:00 PDT	Blow	
	17:31-GMT	Position: 185° / 3528 m Dir: West; Behavior: Slow travel	
	10:34:00 PDT	Blow	
	17:34-GMT	Position: 188° / 3528 m Dir: West; Behavior: Slow travel	
	10:41:00 PDT	Blow	
	17:41-GMT	Position: 197° / 3528 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:48:00 PDT	Blow	
	17:48-GMT	Position: 206° / 3528 m Dir: West; Behavior: Slow travel	
	10:54:00 PDT	Blow	Outside / Outside
	17:54-GMT	Position: 214° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Fair - 3	Er Total 3 — 0 Calves at sighting	
	11:00:00 PDT	ni / Blow	
	18:00-GMT	Position: 144° / 3528 m Dir: West; Behavior: Slow travel	
	11:07:00 PDT	Blow	
	18:07-GMT	Position: 149° / 3528 m Dir: West; Behavior: Slow travel	
	11:13:00 PDT	Blow	
	18:13-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel	
	11:20:00 PDT	Blow	
	18:20-GMT	Position: 164° / 3088 m Dir: West; Behavior: Slow travel	
	11:26:00 PDT	Blow	nd / nd
	18:26-GMT	Position: 173° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	08 Fair - 4	Er Total 2 — 0 Calves at sighting	
	11:49:00 PDT	ni / Blow	
	18:49-GMT	Position: 129° / 2260 m Dir: West; Behavior: Slow travel	
	11:58:00 PDT	Blow	Outside / Outside
	18:58-GMT	Position: 153° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
Mar 19	Total 10 Calves 0	Er Gray whale (northbound)	
Day 41 of 105			
Sighting Number	01 Fair - 0	Er Total 4 — 0 Calves at sighting	
	9:24:00 PDT	ni / Blow	
	16:24-GMT	Position: 178° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	9:34:00 PDT	Blow	Inside / Outside
	16:34-GMT	Position: 212° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	02 Fair - 0	Er Total 1 — 0 Calves at sighting	
	9:36:00 PDT	ni / Blow	
	16:36-GMT	Position: 147° / 1922 m Dir: West; Behavior: Slow travel	
	9:39:00 PDT	Blow	
	16:39-GMT	Position: 153° / 2260 m Dir: West; Behavior: Slow travel	
	9:43:00 PDT	Blow	
	16:43-GMT	Position: 163° / 1922 m Dir: West; Behavior: Slow travel	
	9:52:00 PDT	Blow	Inside / Outside
	16:52-GMT	Position: 202° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	08 Fair - 2	Er Total 5 — 0 Calves at sighting	
	12:57:00 PDT	ni / Blow	
	19:57-GMT	Position: 141° / 3528 m Dir: West; Behavior: Slow travel	
	12:59:00 PDT	Blow	
	19:59-GMT	Position: 143° / 3528 m Dir: West; Behavior: Slow travel	
	13:04:00 PDT	Blow	
	20:04-GMT	Position: 145° / 3528 m Dir: West; Behavior: Slow travel	
	13:09:00 PDT	Blow	
	20:09-GMT	Position: 147° / 3528 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	Time	CueTip / Saw	Holly / Buoys
		13:19:00 PDT	Blow	
		20:19-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel • Fluke <i>saw body, back as well</i>	
		13:27:00 PDT	ni	
		20:27-GMT	Position: 166° / 3528 m Dir: West; Behavior: Slow travel • Fluke <i>arching back</i>	
		13:36:00 PDT	Blow	
		20:36-GMT	Position: 177° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		13:42:00 PDT	Blow	ni / ni
		20:42-GMT	Position: 186° / 3528 m Dir: West; Behavior: Slow travel <i>body again</i>	
Mar 21 Day 43 of 105	Total 42 Calves 0	Er Gray whale (northbound)		
Sighting Number	06	Fair - 1	Er Total 3 — 0 Calves at sighting	
		9:54:00 PDT	ni / Blow	
		16:54-GMT	Position: 131° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		10:03:00 PDT	Blow	
		17:03-GMT	Position: 138° / 3528 m Dir: West; Behavior: Slow travel	
		10:17:00 PDT	Body	
		17:17-GMT	Position: 145° / 3528 m Dir: West; Behavior: Slow travel	
		10:40:00 PDT	Blow	nd / nd
		17:40-GMT	Position: 171° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	07	Fair - 1	Er Total 2 — 0 Calves at sighting	
		9:56:00 PDT	ni / Blow	
		16:56-GMT	Position: 144° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		10:14:00 PDT	Blow	
		17:14-GMT	Position: 165° / 3088 m Dir: West; Behavior: Slow travel	
		10:20:00 PDT	Blow	
		17:20-GMT	Position: 175° / 3088 m Dir: West; Behavior: Slow travel	
		10:32:00 PDT	Body	
		17:32-GMT	Position: 190° / 2749 m Dir: West; Behavior: Slow travel	
		10:51:00 PDT	Body	
		17:51-GMT	Position: 224° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	09	Fair - 1	Er Total 4 — 0 Calves at sighting	
		10:57:00 PDT	ni / Blow	
		17:57-GMT	Position: 153° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		11:02:00 PDT	Blow	
		18:02-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel	
		11:21:00 PDT	Blow	
		18:21-GMT	Position: 174° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
		11:25:00 PDT	Body	
		18:25-GMT	Position: 178° / 3088 m Dir: West; Behavior: Slow travel • Rolling	
		11:27:00 PDT	Blow	
		18:27-GMT	Position: 185° / 3528 m Dir: West; Behavior: Slow travel • Rolling	
		11:36:00 PDT	Blow	nd / Outside
		18:36-GMT	Position: 190° / 3088 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	10 Fair - 1	Er Total 2 — 0 Calves at sighting	
	11:22:00 PDT	ni / Body	
	18:22-GMT	Position: 144° / 3528 m Dir: West; Behavior: Slow travel	
	11:34:00 PDT	Blow	
	18:34-GMT	Position: 158° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	11:41:00 PDT	Blow	
	18:41-GMT	Position: 173° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	11:53:00 PDT	Blow	nd / Outside
	18:53-GMT	Position: 198° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	11 Fair - 1	Er Total 4 — 0 Calves at sighting	
	11:31:00 PDT	ni / Blow	
	18:31-GMT	Position: 151° / 3528 m Dir: West; Behavior: Slow travel	
	11:35:00 PDT	Blow	
	18:35-GMT	Position: 154° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	11:44:00 PDT	Blow	
	18:44-GMT	Position: 178° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	11:52:00 PDT	Blow	nd / Outside
	18:52-GMT	Position: 186° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	12 Fair - 1	Er Total 1 — 0 Calves at sighting	
	11:58:00 PDT	ni / Blow	
	18:58-GMT	Position: 122° / 1331 m Dir: West; Behavior: Slow travel	
	12:03:00 PDT	Blow	
	19:03-GMT	Position: 131° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	12:23:00 PDT	Blow	
	19:23-GMT	Position: 267° / 1403 m Dir: West; Behavior: Slow travel	
		<i>also seen @140, no time</i>	
Sighting Number	13 Fair - 1	Er Total 4 — 0 Calves at sighting	
	12:07:00 PDT	ni / Blow	
	19:07-GMT	Position: 148° / 3528 m Dir: West; Behavior: Slow travel • Rolling	
	12:12:00 PDT	Blow	
	19:12-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel	
	12:18:00 PDT	Blow	
	19:18-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	12:22:00 PDT	Blow	
	19:22-GMT	Position: 163° / 3088 m Dir: West; Behavior: Slow travel	
	12:27:00 PDT	Blow	
	19:27-GMT	Position: 169° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	12:35:00 PDT	Blow	
	19:35-GMT	Position: 184° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	14 Fair - 1	Er Total 3 — 0 Calves at sighting	
	12:08:00 PDT	ni / Blow	
	19:08-GMT	Position: 175° / 3528 m Dir: West; Behavior: Slow travel	
	12:15:00 PDT	Blow	
	19:15-GMT	Position: 184° / 3528 m Dir: West; Behavior: Slow travel • Rolling	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	12:20:00 PDT	Blow	nd / Outside
	19:20-GMT	Position: 187° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	15 Good - 1	Er Total 1 — 0 Calves at sighting	
	13:23:00 PDT	ni / Blow	
	20:23-GMT	Position: 186° / 3528 m Dir: West; Behavior: Slow travel	
	13:47:00 PDT	Blow	
	20:47-GMT	Position: 216° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	17 Good - 1	Er Total 3 — 0 Calves at sighting	
	13:44:00 PDT	ni / Blow	
	20:44-GMT	Position: 173° / 3528 m Dir: West; Behavior: Slow travel	
		<i>one northbound Er following behind other 2</i>	
	13:46:00 PDT	Blow	
	20:46-GMT	Position: 178° / 3088 m Dir: West; Behavior: Slow travel	
	13:47:00 PDT	Blow	
	20:47-GMT	Position: 179° / 3088 m Dir: West; Behavior: Slow travel	
	13:50:00 PDT	Blow	
	20:50-GMT	Position: 184° / 3528 m Dir: West; Behavior: Slow travel	
	13:52:00 PDT	Blow	
	20:52-GMT	Position: 187° / 3088 m Dir: West; Behavior: Slow travel	
	13:56:00 PDT	Blow	
	20:56-GMT	Position: 196° / 3528 m Dir: West; Behavior: Slow travel	
	13:58:00 PDT	Blow	
	20:58-GMT	Position: 198° / 3528 m Dir: West; Behavior: Slow travel	
	13:59:00 PDT	Blow	Outside / Outside
	20:59-GMT	Position: 201° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	20 Good - 1	Er Total 4 — 0 Calves at sighting	
	13:53:00 PDT	ni / Blow	
	20:53-GMT	Position: 169° / 3528 m Dir: West; Behavior: Slow travel	
	13:55:00 PDT	Blow	
	20:55-GMT	Position: 170° / 3528 m Dir: West; Behavior: Slow travel	
	14:02:00 PDT	Blow	
	21:02-GMT	Position: 177° / 3528 m Dir: West; Behavior: Slow travel	
	14:06:00 PDT	Blow	
	21:06-GMT	Position: 183° / 3528 m Dir: West; Behavior: Slow travel	
	14:13:00 PDT	Blow	
	21:13-GMT	Position: 194° / 3528 m Dir: West; Behavior: Slow travel	
	14:21:00 PDT	Blow	Outside / Outside
	21:21-GMT	Position: 203° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	23 Good - 1	Er Total 5 — 0 Calves at sighting	
	15:18:00 PDT	ni / Blow	
	22:18-GMT	Position: 154° / 5027 m Dir: West; Behavior: Slow travel • Spyhop	
	15:32:00 PDT	Blow	
	22:32-GMT	Position: 154° / 5027 m Dir: West; Behavior: Slow travel	
		<i>sharking</i>	
	16:00:00 PDT	Blow	
	23:00-GMT	Position: 163° / 5027 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	16:11:00 PDT 23:11-GMT	Blow Position: 166° / 5027 m Dir: West; Behavior: Slow travel	
	16:40:00 PDT 23:40-GMT	Blow Position: 206° / 3528 m Dir: West; Behavior: Slow travel	
	16:45:00 PDT 23:45-GMT	Blow Position: 214° / 3528 m Dir: West; Behavior: Slow travel	
	16:48:00 PDT 23:48-GMT	Blow Position: 216° / 3528 m Dir: West; Behavior: Slow travel	
	16:59:00 PDT 23:59-GMT	Blow Position: 234° / 3528 m Dir: West; Behavior: Slow travel	Outside / Outside
Sighting Number	24 Good - 3	Er Total 3 — 0 Calves at sighting	
	15:43:00 PDT 22:43-GMT	ni / Blow Position: 183° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	15:55:00 PDT 22:55-GMT	Blow Position: 202° / 3528 m Dir: West; Behavior: Slow travel	
	16:03:00 PDT 23:03-GMT	Blow Position: 209° / 3528 m Dir: West; Behavior: Slow travel	
	16:06:00 PDT 23:06-GMT	Blow Position: 217° / 3528 m Dir: West; Behavior: Slow travel	Outside / Outside
Sighting Number	25 Fair - 4	Er Total 3 — 0 Calves at sighting	
	15:46:00 PDT 22:46-GMT	ni / Blow Position: 190° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
	15:49:00 PDT 22:49-GMT	Blow Position: 194° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
	15:56:00 PDT 22:56-GMT	Blow Position: 203° / 5027 m Dir: West; Behavior: Slow travel	
	16:00:00 PDT 23:00-GMT	Blow Position: 206° / 5027 m Dir: West; Behavior: Slow travel	
	16:07:00 PDT 23:07-GMT	Blow Position: 210° / 5027 m Dir: West; Behavior: Slow travel	
	16:11:00 PDT 23:11-GMT	Blow Position: 219° / 5027 m Dir: West; Behavior: Slow travel	Outside / Outside

Mar 22 Total **30** Calves **0**
Day 44 of 105

Er Gray whale (northbound)

Sighting Number	03 Fair - 1	Er Total 2 — 0 Calves at sighting	
	9:24:00 PDT 16:24-GMT	ni / Blow Position: 187° / 3528 m Dir: West; Behavior: Slow travel • Rolling	
	9:27:00 PDT 16:27-GMT	Blow Position: 188° / 3528 m Dir: West; Behavior: Slow travel • Spyhop • Fast travel <i>sharking</i>	
	9:31:00 PDT 16:31-GMT	Blow Position: 188° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	9:32:00 PDT 16:32-GMT	Blow Position: 190° / 3528 m Dir: West; Behavior: Slow travel • Fluke <i>tail activity - not a lob, not a dive</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	9:36:00 PDT	Blow	
	16:36-GMT	Position: 191° / 3528 m Dir: West; Behavior: Slow travel	
	9:44:00 PDT	Blow	Outside / Outside
	16:44-GMT	Position: 197° / 3528 m Dir: West; Behavior: Slow travel • Rolling	
Sighting Number	04 Fair - 1	Er Total 1 — 0 Calves at sighting	
	9:34:00 PDT	ni / Blow	
	16:34-GMT	Position: 173° / 3528 m Dir: West; Behavior: Slow travel	
	9:37:00 PDT	Blow	nd / nd
	16:37-GMT	Position: 173° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Fair - 1	Er Total 1 — 0 Calves at sighting	
	10:15:00 PDT	ni / Blow	
	17:15-GMT	Position: 107° / 3088 m Dir: West; Behavior: Slow travel	
	10:23:00 PDT	Blow	
	17:23-GMT	Position: 111° / 2749 m Dir: West; Behavior: Slow travel	
	10:29:00 PDT	Blow	
	17:29-GMT	Position: 119° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	10:34:00 PDT	Blow	
	17:34-GMT	Position: 127° / 2260 m Dir: West; Behavior: Slow travel	
	10:35:00 PDT	Blow	
	17:35-GMT	Position: 133° / 1674 m Dir: West; Behavior: Slow travel	
	10:39:00 PDT	Blow	
	17:39-GMT	Position: 144° / 1331 m Dir: West; Behavior: Slow travel <i>seems to be skirting silty water - then in silty/muddy water</i>	
	10:43:00 PDT	Blow	
	17:43-GMT	Position: 163° / 946 m Dir: West; Behavior: Slow travel	
	10:45:00 PDT	Blow	
	17:45-GMT	Position: 174° / 946 m Dir: West; Behavior: Slow travel	
	10:47:00 PDT	Blow	
	17:47-GMT	Position: 187° / 1020 m Dir: West; Behavior: Slow travel	
	10:48:00 PDT	Blow	Inside / nd
	17:48-GMT	Position: 195° / 1020 m Dir: West; Behavior: Slow travel	
Sighting Number	09 Good - 2	Er Total 2 — 0 Calves at sighting	
	11:10:00 PDT	ni / Body	
	18:10-GMT	Position: 166° / 3528 m Dir: West; Behavior: Slow travel	
	11:34:00 PDT	Blow	
	18:34-GMT	Position: 176° / 3528 m Dir: West; Behavior: Slow travel	
	11:40:00 PDT	Body	nd / Outside
	18:40-GMT	Position: 188° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	15 Fair - 2	Er Total 4 — 0 Calves at sighting	
	12:47:00 PDT	ni / Blow	
	19:47-GMT	Position: 183° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	12:57:00 PDT	Blow	ni / ni
	19:57-GMT	Position: 189° / 1106 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	16 Fair - 2	Er Total 6 — 0 Calves at sighting	
	13:26:00 PDT	ni / Blow	
	20:26-GMT	Position: 166° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	13:38:00 PDT	Blow	
	20:38-GMT	Position: 172° / 5027 m Dir: West; Behavior: Slow travel	
	13:57:00 PDT	Blow	
	20:57-GMT	Position: 183° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	14:17:00 PDT	Blow	ni / ni
	21:17-GMT	Position: 199° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	18 Fair - 2	Er Total 5 — 0 Calves at sighting	
	14:24:00 PDT	ni / Blow	
	21:24-GMT	Position: 166° / 3528 m Dir: West; Behavior: Slow travel	
	14:32:00 PDT	Blow	
	21:32-GMT	Position: 171° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	14:40:00 PDT	Blow	
	21:40-GMT	Position: 179° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:43:00 PDT	Blow	
	21:43-GMT	Position: 182° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	15:15:00 PDT	Blow	
	22:15-GMT	Position: 228° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	15:23:00 PDT	Blow	Outside / Outside
	22:23-GMT	Position: 237° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	19 Fair - 2	Er Total 2 — 0 Calves at sighting	
	14:30:00 PDT	ni / Blow	
	21:30-GMT	Position: 163° / 5027 m Dir: West; Behavior: Slow travel	
	14:48:00 PDT	Blow	
	21:48-GMT	Position: 169° / 5027 m Dir: West; Behavior: Slow travel	
	14:58:00 PDT	Blow	
	21:58-GMT	Position: 173° / 5027 m Dir: West; Behavior: Slow travel	
	15:17:00 PDT	Blow	
	22:17-GMT	Position: 187° / 3528 m Dir: West; Behavior: Slow travel	
	15:21:00 PDT	Blow	
	22:21-GMT	Position: 189° / 5027 m Dir: West; Behavior: Slow travel • Fluke	
	15:27:00 PDT	Blow	
	22:27-GMT	Position: 190° / 5027 m Dir: West; Behavior: Slow travel • Rolling <i>lots of rolling</i>	
	15:40:00 PDT	Blow	
	22:40-GMT	Position: 194° / 5027 m Dir: West; Behavior: Slow travel	
	15:44:00 PDT	Blow	Outside / Outside
	22:44-GMT	Position: 194° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	20 Fair - 0	Er Total 1 — 0 Calves at sighting	
	16:13:00 PDT	ni / Blow	
	23:13-GMT	Position: 194° / 5027 m Dir: West; Behavior: Slow travel	
	16:21:00 PDT	Blow	
	23:21-GMT	Position: 198° / 5027 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:27:00 PDT	Blow	
	23:27-GMT	Position: 201° / 5027 m Dir: West; Behavior: Slow travel	
	16:33:00 PDT	Blow	Outside / Outside
	23:33-GMT	Position: 205° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	21 Fair - 0	Er Total 3 — 0 Calves at sighting	
	16:16:00 PDT	ni / Blow	
	23:16-GMT	Position: 215° / 5027 m Dir: West; Behavior: Slow travel • Rolling	
	16:37:00 PDT	Blow	Outside / Outside
	23:37-GMT	Position: 227° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	22 Fair - 0	Er Total 1 — 0 Calves at sighting	
	16:23:00 PDT	ni / Blow	
	23:23-GMT	Position: 202° / 3528 m Dir: West; Behavior: Slow travel	
	16:26:00 PDT	Blow	Outside / Outside
	23:26-GMT	Position: 209° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	23 Fair - 0	Er Total 2 — 0 Calves at sighting	
	16:42:00 PDT	ni / Blow	
	23:42-GMT	Position: 185° / 3528 m Dir: West; Behavior: Slow travel	
	16:44:00 PDT	Blow	
	23:44-GMT	Position: 189° / 3088 m Dir: West; Behavior: Slow travel • Rolling	
	16:47:00 PDT	Body	
	23:47-GMT	Position: 197° / 3088 m Dir: West; Behavior: Slow travel	
	16:49:00 PDT	Blow	
	23:49-GMT	Position: 201° / 3088 m Dir: West; Behavior: Slow travel	
	16:58:00 PDT	Blow	Outside / Outside
	23:58-GMT	Position: 218° / 3528 m Dir: West; Behavior: Slow travel	
<hr/>			
Mar 24	Total 14 Calves 0	Er Gray whale (northbound)	
Day 46 of 105			
Sighting Number	06 Fair - 3	Er Total 1 — 0 Calves at sighting	
	11:35:00 PDT	ni / Blow	
	18:35-GMT	Position: 119° / 1674 m Dir: West; Behavior: Slow travel	
	11:39:00 PDT	Blow	
	18:39-GMT	Position: 128° / 1331 m Dir: West; Behavior: Slow travel	
	11:41:00 PDT	Blow	Inside / nd
	18:41-GMT	Position: 138° / 1331 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Fair - 3	Er Total 3 — 0 Calves at sighting	
	11:43:00 PDT	ni / Blow	
	18:43-GMT	Position: 162° / 3528 m Dir: West; Behavior: Slow travel	
	11:45:00 PDT	Blow	
	18:45-GMT	Position: 163° / 3528 m Dir: West; Behavior: Slow travel	
	11:49:00 PDT	Blow	
	18:49-GMT	Position: 170° / 3528 m Dir: West; Behavior: Slow travel	
	11:54:00 PDT	ni	
	18:54-GMT	Position: 175° / 3528 m Dir: West; Behavior: Slow travel	
	12:00:00 PDT	Blow	
	19:00-GMT	Position: 183° / 3528 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	12:08:00 PDT	Blow	
	19:08-GMT	Position: 194° / 3528 m Dir: West; Behavior: Slow travel	
	12:12:00 PDT	Blow	
	19:12-GMT	Position: 207° / 3528 m Dir: West; Behavior: Slow travel	
		<i>2 in front, 1 behind</i>	
	12:18:00 PDT	Blow	
	19:18-GMT	Position: 211° / 3528 m Dir: West; Behavior: Slow travel	
		<i>2 behind, 1 in front - multiple blows per animal</i>	
	12:27:00 PDT	Blow	
	19:27-GMT	Position: 224° / 3528 m Dir: West; Behavior: Slow travel	
	12:31:00 PDT	Blow	Outside / Outside
	19:31-GMT	Position: 228° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	08	Fair - 3	Er Total 2 — 0 Calves at sighting
	11:55:00 PDT	ni / Blow	
	18:55-GMT	Position: 209° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	12:04:00 PDT	Blow	
	19:04-GMT	Position: 223° / 3088 m Dir: West; Behavior: Slow travel	
	12:13:00 PDT	Blow	Outside / Outside
	19:13-GMT	Position: 237° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	09	Fair - 4	Er Total 2 — 0 Calves at sighting Disappeared
	12:26:00 PDT	ni / Blow	Inside / Outside
	19:26-GMT	Position: 189° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	10	Poor - 3	Er Total 2 — 0 Calves at sighting
	14:11:00 PDT	ni / Blow	
	21:11-GMT	Position: 171° / 2260 m Dir: West; Behavior: Slow travel	
	14:18:00 PDT	Blow	Inside / Outside
	21:18-GMT	Position: 200° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	11	Poor - 3	Er Total 2 — 0 Calves at sighting
	14:51:00 PDT	ni / Blow	
	21:51-GMT	Position: 147° / 2260 m Dir: West; Behavior: Slow travel	
	14:53:00 PDT	Blow	
	21:53-GMT	Position: 157° / 2260 m Dir: West; Behavior: Slow travel • Rolling	
	15:00:00 PDT	Blow	
	22:00-GMT	Position: 178° / 1922 m Dir: West; Behavior: Slow travel	
	15:07:00 PDT	Blow	Inside / Outside
	22:07-GMT	Position: 205° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	12	Poor - 2	Er Total 2 — 0 Calves at sighting
	16:20:00 PDT	ni / Blow	
	23:20-GMT	Position: 165° / 3088 m Dir: West; Behavior: Slow travel	
		<i>saw from outside office @ 1610 when checking conditions</i>	
	16:56:00 PDT	Blow	
	23:56-GMT	Position: 222° / 3088 m Dir: West; Behavior: Slow travel	

Mar 25 Total 2 Calves 0
Day 47 of 105

Er Gray whale (northbound)

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	05 Fair - 3	Er Total 2 — 0 Calves at sighting	
	10:34:00 PDT	Phone / Blow	
	17:34-GMT	Position: 143° / 5027 m Dir: West; Behavior: Slow travel <i>first spotted outside our range by Condor</i>	
	10:43:00 PDT	Blow	
	17:43-GMT	Position: 150° / 3528 m Dir: West; Behavior: Slow travel <i>saw total of 5 blows</i>	
	10:52:00 PDT	Blow	
	17:52-GMT	Position: 159° / 3528 m Dir: West; Behavior: Slow travel <i>total of 4-5 blows</i>	
	11:01:00 PDT	Blow	
	18:01-GMT	Position: 169° / 3528 m Dir: West; Behavior: Slow travel <i>multiple blows</i>	
	11:10:00 PDT	Blow	
	18:10-GMT	Position: 181° / 3528 m Dir: West; Behavior: Slow travel <i>1 blow at beginning, followed by 3-4 more ~3 min later</i>	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 193° / 3528 m Dir: West; Behavior: Slow travel	
Mar 26 Day 48 of 105	Total 19 Calves 0	Er Gray whale (northbound)	
Sighting Number	02 Fair - 1	Er Total 1 — 0 Calves at sighting	
	9:43:00 PDT	ni / Blow	
	16:43-GMT	Position: 211° / 3528 m Dir: West; Behavior: Slow travel	
	9:47:00 PDT	Blow	
	16:47-GMT	Position: 219° / 3528 m Dir: West; Behavior: Slow travel	
	9:50:00 PDT	ni	
	16:50-GMT	Position: 224° / 3528 m Dir: West; Behavior: Slow travel	
	9:52:00 PDT	Blow	
	16:52-GMT	Position: 226° / 3528 m Dir: West; Behavior: Slow travel Outside / Outside	
Sighting Number	05 Poor - 1	Er Total 2 — 0 Calves at sighting	
	10:35:00 PDT	ni / Blow	
	17:35-GMT	Position: 151° / 3528 m Dir: West; Behavior: Slow travel	
	10:39:00 PDT	Blow	
	17:39-GMT	Position: 153° / 3528 m Dir: West; Behavior: Slow travel nd / nd	
Sighting Number	07 Poor - 0	Er Total 2 — 0 Calves at sighting	
	12:17:00 PDT	ni / Blow	
	19:17-GMT	Position: 140° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	12:23:00 PDT	Blow	
	19:23-GMT	Position: 144° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	12:36:00 PDT	Blow	
	19:36-GMT	Position: 187° / 3528 m Dir: West; Behavior: Slow travel	
	12:55:00 PDT	Blow	
	19:55-GMT	Position: 206° / 3528 m Dir: West; Behavior: Slow travel Outside / Outside	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	08 Poor - 0	Er Total 1 — 0 Calves at sighting	
	13:10:00 PDT	ni / Body	
	20:10-GMT	Position: 143° / 883 m Dir: West; Behavior: Slow travel	
		<i>small whale</i>	
	13:13:00 PDT	Body	
	20:13-GMT	Position: 159° / 735 m Dir: West; Behavior: Slow travel • Fluke	
	13:17:00 PDT	Body	
	20:17-GMT	Position: 186° / 550 m Dir: West; Behavior: Slow travel	
	13:22:00 PDT	Blow	
	20:22-GMT	Position: 235° / 735 m Dir: West; Behavior: Slow travel • Fluke	
	13:26:00 PDT	Blow	Inside / Outside
	20:26-GMT	Position: 249° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	09 Fair - 0	Er Total 3 — 0 Calves at sighting	
	13:19:00 PDT	ni / Body	
	20:19-GMT	Position: 153° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:23:00 PDT	Body	
	20:23-GMT	Position: 156° / 3528 m Dir: West; Behavior: Slow travel	
	13:28:00 PDT	Blow	
	20:28-GMT	Position: 160° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:34:00 PDT	Blow	
	20:34-GMT	Position: 165° / 3528 m Dir: West; Behavior: Slow travel	
	13:39:00 PDT	Body	
	20:39-GMT	Position: 172° / 3088 m Dir: West; Behavior: Slow travel	
	13:52:00 PDT	Blow	
	20:52-GMT	Position: 189° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	14:03:00 PDT	Blow	
	21:03-GMT	Position: 204° / 3088 m Dir: West; Behavior: Slow travel	
	14:15:00 PDT	Blow	
	21:15-GMT	Position: 219° / 3528 m Dir: West; Behavior: Slow travel	
	14:26:00 PDT	Blow	
	21:26-GMT	Position: 228° / 3528 m Dir: West; Behavior: Slow travel	
	14:30:00 PDT	Blow	Outside / Outside
	21:30-GMT	Position: 232° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	10 Fair - 0	Er Total 2 — 0 Calves at sighting	
	13:31:00 PDT	ni / Blow	
	20:31-GMT	Position: 146° / 2749 m Dir: West; Behavior: Slow travel	
	13:42:00 PDT	Blow	
	20:42-GMT	Position: 161° / 2260 m Dir: West; Behavior: Slow travel	
	13:55:00 PDT	Blow	
	20:55-GMT	Position: 189° / 1922 m Dir: West; Behavior: Slow travel	
	14:04:00 PDT	Body	nd / Outside
	21:04-GMT	Position: 207° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	12 Fair - 0	Er Total 2 — 0 Calves at sighting	
	14:06:00 PDT	ni / Blow	
	21:06-GMT	Position: 139° / 3528 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoy
	14:14:00 PDT	Blow	
	21:14-GMT	Position: 144° / 3088 m Dir: West; Behavior: Slow travel	
	14:20:00 PDT	Blow	
	21:20-GMT	Position: 149° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:29:00 PDT	Blow	
	21:29-GMT	Position: 164° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:31:00 PDT	Blow	
	21:31-GMT	Position: 167° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:37:00 PDT	Blow	
	21:37-GMT	Position: 179° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	14:45:00 PDT	Blow	
	21:45-GMT	Position: 199° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	14:55:00 PDT	Blow	
	21:55-GMT	Position: 223° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	15:13:00 PDT	Blow	Inside / Outside
	22:13-GMT	Position: 250° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	13	Fair - 0	<i>Er</i> Total 3 — 0 Calves at sighting
	14:28:00 PDT	ni / Blow	
	21:28-GMT	Position: 139° / 5027 m Dir: West; Behavior: Slow travel	
	14:39:00 PDT	Blow	
	21:39-GMT	Position: 144° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	14:52:00 PDT	Body	
	21:52-GMT	Position: 150° / 3088 m Dir: West; Behavior: Slow travel • Breach	
	14:57:00 PDT	Body	
	21:57-GMT	Position: 154° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	15:23:00 PDT	Blow	
	22:23-GMT	Position: 192° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	15:47:00 PDT	Body	
	22:47-GMT	Position: 220° / 3088 m Dir: West; Behavior: Slow travel	
	16:06:00 PDT	Blow	Outside / Outside
	23:06-GMT	Position: 233° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	14	Fair - 0	<i>Er</i> Total 3 — 0 Calves at sighting
	15:05:00 PDT	ni / Blow	Outside / Outside
	22:05-GMT	Position: 229° / 3528 m Dir: West; Behavior: Slow travel	
<hr/>			
Mar 27	Total 11	Calves 0	<i>Er</i> Gray whale (northbound)
Day 49 of 105			
Sighting Number	05	Good - 0	<i>Er</i> Total 2 — 0 Calves at sighting
	9:33:00 PDT	ni / Blow	
	16:33-GMT	Position: 119° / 5027 m Dir: West; Behavior: Slow travel	
	9:36:00 PDT	Blow	
	16:36-GMT	Position: 120° / 5027 m Dir: West; Behavior: Slow travel	
	9:39:00 PDT	Blow	
	16:39-GMT	Position: 122° / 5027 m Dir: West; Behavior: Slow travel	
	9:45:00 PDT	Blow	
	16:45-GMT	Position: 123° / 5027 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	9:54:00 PDT	Blow	
	16:54-GMT	Position: 126° / 5027 m Dir: West; Behavior: Slow travel	
	10:01:00 PDT	Blow	
	17:01-GMT	Position: 130° / 3528 m Dir: West; Behavior: Slow travel	
	10:07:00 PDT	Blow	
	17:07-GMT	Position: 133° / 3528 m Dir: West; Behavior: Slow travel	
	10:14:00 PDT	Blow	
	17:14-GMT	Position: 140° / 3088 m Dir: West; Behavior: Slow travel	
	10:23:00 PDT	Blow	
	17:23-GMT	Position: 150° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	10:31:00 PDT	Blow	nd / nd
	17:31-GMT	Position: 170° / 2260 m Dir: West; Behavior: Slow travel • Fluke <i>disappeared as of 1051</i>	
Sighting Number	08	Good - 1	<i>Er</i> Total 5 — 0 Calves at sighting
	11:08:00 PDT	ni / Blow	
	18:08-GMT	Position: 199° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 207° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	11:26:00 PDT	Blow	Outside / Outside
	18:26-GMT	Position: 216° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	09	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting
	12:11:00 PDT	ni / Body	
	19:11-GMT	Position: 174° / 382 m Dir: West; Behavior: Slow travel	
Sighting Number	10	Good - 1	<i>Er</i> Total 1 — 0 Calves at sighting
	12:25:00 PDT	ni / Blow	
	19:25-GMT	Position: 129° / 2260 m Dir: West; Behavior: Slow travel	
	12:32:00 PDT	Blow	
	19:32-GMT	Position: 141° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	12:36:00 PDT	Blow	
	19:36-GMT	Position: 152° / 1020 m Dir: West; Behavior: Slow travel • Fluke	
	12:47:00 PDT	Blow	
	19:47-GMT	Position: 211° / 778 m Dir: West; Behavior: Slow travel	
	12:51:00 PDT	Blow	
	19:51-GMT	Position: 232° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
	13:12:00 PDT	Blow	Inside / Outside
	20:12-GMT	Position: 254° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	11	Good - 1	<i>Er</i> Total 2 — 0 Calves at sighting
	12:46:00 PDT	ni / Blow	
	19:46-GMT	Position: 136° / 1106 m Dir: West; Behavior: Slow travel	
	12:53:00 PDT	Blow	
	19:53-GMT	Position: 173° / 778 m Dir: West; Behavior: Slow travel • Fluke	
	13:02:00 PDT	Blow	Inside / Outside
	20:02-GMT	Position: 219° / 913 m Dir: West; Behavior: Slow travel	

Mar 28 Total 13 Calves 0
Day 50 of 105

Er Gray whale (northbound)

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	02 Fair - 2	Er Total 2 — 0 Calves at sighting	
	9:33:00 PDT	SD / Body	nd / Outside
	16:33-GMT	Position: 212° / 3088 m Dir: West; Behavior: Slow travel • Rolling	
		<i>saw something in water - looked in scope - saw rolling whales - then two faint blows - did not see again</i>	
Sighting Number	06 Good - 1	Er Total 2 — 0 Calves at sighting	
	11:01:00 PDT	ni / Blow	
	18:01-GMT	Position: 117° / 2260 m Dir: West; Behavior: Slow travel	
	11:09:00 PDT	Blow	
	18:09-GMT	Position: 132° / 1331 m Dir: West; Behavior: Slow travel	
	11:17:00 PDT	Blow	
	18:17-GMT	Position: 173° / 883 m Dir: West; Behavior: Slow travel	
	11:23:00 PDT	Blow	Inside / Outside
	18:23-GMT	Position: 238° / 883 m Dir: West; Behavior: Slow travel	
Sighting Number	09 Good - 3	Er Total 5 — 0 Calves at sighting	
	11:52:00 PDT	ni / Blow	
	18:52-GMT	Position: 129° / 5027 m Dir: West; Behavior: Slow travel	
		<i>2 lead + 3 trail</i>	
	11:57:00 PDT	Blow	
	18:57-GMT	Position: 131° / 5027 m Dir: West; Behavior: Slow travel	
	12:15:00 PDT	Blow	
	19:15-GMT	Position: 136° / 5027 m Dir: West; Behavior: Slow travel	
	12:38:00 PDT	Blow	
	19:38-GMT	Position: 143° / 3528 m Dir: West; Behavior: Slow travel	
	12:40:00 PDT	ni	
	19:40-GMT	Position: 146° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	12:48:00 PDT	Blow	
	19:48-GMT	Position: 151° / 3088 m Dir: West; Behavior: Slow travel	
		<i>lead group 2 degrees ahead</i>	
	12:55:00 PDT	Blow	
	19:55-GMT	Position: 153° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
		<i>trailing group</i>	
	12:59:00 PDT	Blow	
	19:59-GMT	Position: 157° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	13:06:00 PDT	Blow	
	20:06-GMT	Position: 165° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	13:13:00 PDT	Blow	
	20:13-GMT	Position: 175° / 2749 m Dir: West; Behavior: Slow travel	
	13:17:00 PDT	Blow	
	20:17-GMT	Position: 181° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	13:21:00 PDT	Blow	
	20:21-GMT	Position: 189° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
		<i>back group</i>	
	13:28:00 PDT	Blow	
	20:28-GMT	Position: 203° / 2749 m Dir: West; Behavior: Slow travel	
	13:50:00 PDT	Blow	Inside / Outside
	20:50-GMT	Position: 243° / 3088 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
Sighting Number	14 Poor - 4	Er Total 3 — 0 Calves at sighting	
	14:57:00 PDT	ni / Blow	
	21:57-GMT	Position: 120° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	15:07:00 PDT	Blow	
	22:07-GMT	Position: 124° / 2749 m Dir: West; Behavior: Slow travel	
	15:16:00 PDT	Blow	
	22:16-GMT	Position: 136° / 1674 m Dir: West; Behavior: Slow travel	
	15:21:00 PDT	Blow	
	22:21-GMT	Position: 150° / 1331 m Dir: West; Behavior: Slow travel	
	15:30:00 PDT	Blow	
	22:30-GMT	Position: 194° / 778 m Dir: West; Behavior: Slow travel	
	15:50:00 PDT	Blow	Inside / Outside
	22:50-GMT	Position: 260° / 1674 m Dir: West; Behavior: Slow travel	
Sighting Number	15 Poor - 4	Er Total 1 — 0 Calves at sighting	
	15:32:00 PDT	ni / Blow	
	22:32-GMT	Position: 140° / 1674 m Dir: West; Behavior: Slow travel	
	15:36:00 PDT	Blow	
	22:36-GMT	Position: 147° / 1331 m Dir: West; Behavior: Slow travel	
	16:10:00 PDT	Blow	nd / nd
	23:10-GMT	Position: 272° / 3088 m Dir: West; Behavior: Slow travel	
Mar 29 Day 51 of 105	Total 7 Calves 1	Er Gray whale (northbound)	
Sighting Number	05 Fair - 2	Er Total 1 — 0 Calves at sighting	
	9:35:00 PDT	ni / Blow	
	16:35-GMT	Position: 150° / 2749 m Dir: West; Behavior: Slow travel	
		<i>Condor said 2</i>	
	10:12:00 PDT	Blow	Inside / Outside
	17:12-GMT	Position: 261° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	08 Fair - 0	Er Total 2 — 0 Calves at sighting	
	15:47:00 PDT	ni / Blow	
	22:47-GMT	Position: 204° / 883 m Dir: West; Behavior: Slow travel	
	15:52:00 PDT	Blow	
	22:52-GMT	Position: 228° / 946 m Dir: West; Behavior: Slow travel • Fluke	
	15:57:00 PDT	Blow	
	22:57-GMT	Position: 251° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	16:04:00 PDT	Blow	Inside / Outside
	23:04-GMT	Position: 268° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	09 Fair - 0	Er Total 2 — 0 Calves at sighting	
	16:19:00 PDT	ni / Blow	
	23:19-GMT	Position: 214° / 2749 m Dir: West; Behavior: Slow travel	
	16:23:00 PDT	Blow	
	23:23-GMT	Position: 222° / 2749 m Dir: West; Behavior: Slow travel	
		<i>big blow - little blow</i>	
	16:30:00 PDT	Blow	
	23:30-GMT	Position: 235° / 2749 m Dir: West; Behavior: Slow travel	
		<i>don't believe it was a calf - side by side, some separation</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:37:00 PDT	Blow	Inside / Outside
	23:37-GMT	Position: 242° / 2749 m Dir: West; Behavior: Slow travel	
Sighting Number	11 Fair - 0	<i>Er</i> Total 2 — 1 Calf at sighting	
Images: none	16:42:00 PDT	SD / Blow	
	23:42-GMT	Position: 143° / 1208 m Dir: West; Behavior: Slow travel	
		<i>very close - switch side - more blows at surface for calf - cow fluked - calf did not</i>	
	16:50:00 PDT	Blow	
	23:50-GMT	Position: 188° / 735 m Dir: West; Behavior: Slow travel • Fluke	
	16:58:00 PDT	Body	Inside / Outside
	23:58-GMT	Position: 245° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
Mar 30	Total 9 Calves 0	Er Gray whale (northbound)	
Day 52 of 105			
Sighting Number	19 Good - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
	12:13:00 PDT	ni / Blow	
	19:13-GMT	Position: 137° / 455 m Dir: West; Behavior: Slow travel • Moderate travel	
		<i>juvenile - Santa Barbara Channel Keeper crossed over path head on - long down time - disappeared</i>	
	12:14:00 PDT	Blow	
	19:14-GMT	Position: 165° / 388 m Dir: West; Behavior: Slow travel • Moderate travel	
	12:16:00 PDT	Blow	Inside / nd
	19:16-GMT	Position: 201° / 356 m Dir: West; Behavior: Slow travel • Moderate travel	
Sighting Number	25 Good - 0	<i>Er</i> Total 1 — 0 Calves at sighting	
	13:23:00 PDT	ni / Blow	
	20:23-GMT	Position: 220° / 3528 m Dir: West; Behavior: Slow travel	
	13:27:00 PDT	Blow	
	20:27-GMT	Position: 223° / 3528 m Dir: West; Behavior: Slow travel	
	13:32:00 PDT	Blow	Outside / Outside
	20:32-GMT	Position: 235° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	26 Good - 2	<i>Er</i> Total 2 — 0 Calves at sighting	
	13:26:00 PDT	ni / Blow	
	20:26-GMT	Position: 224° / 5027 m Dir: West; Behavior: Slow travel	
	13:28:00 PDT	Blow	
	20:28-GMT	Position: 225° / 5027 m Dir: West; Behavior: Slow travel	
	13:32:00 PDT	Blow	
	20:32-GMT	Position: 226° / 5027 m Dir: West; Behavior: Slow travel	
	13:36:00 PDT	Blow	
	20:36-GMT	Position: 231° / 5027 m Dir: West; Behavior: Slow travel • Moderate travel	
		<i>might have sped up due to V#23</i>	
	13:57:00 PDT	Blow	Outside / Outside
	20:57-GMT	Position: 246° / 5027 m Dir: West; Behavior: Slow travel	
Sighting Number	30 Fair - 1	<i>Er</i> Total 3 — 0 Calves at sighting	
	14:53:00 PDT	ni / Blow	
	21:53-GMT	Position: 128° / 2749 m Dir: West; Behavior: Slow travel	
	14:58:00 PDT	Blow	
	21:58-GMT	Position: 133° / 1922 m Dir: West; Behavior: Slow travel	
	15:00:00 PDT	Blow	
	22:00-GMT	Position: 138° / 2260 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	15:04:00 PDT	Blow	
	22:04-GMT	Position: 142° / 2260 m Dir: West; Behavior: Slow travel	
	15:05:00 PDT	Blow	
	22:05-GMT	Position: 144° / 1922 m Dir: West; Behavior: Slow travel	
	15:07:00 PDT	Blow	
	22:07-GMT	Position: 146° / 1674 m Dir: West; Behavior: Slow travel	
	15:09:00 PDT	Blow	
	22:09-GMT	Position: 147° / 1208 m Dir: West; Behavior: Slow travel	
	15:10:00 PDT	Blow	
	22:10-GMT	Position: 157° / 1106 m Dir: West; Behavior: Slow travel	
	15:13:00 PDT	Blow	
	22:13-GMT	Position: 162° / 1106 m Dir: West; Behavior: Slow travel	
	15:16:00 PDT	Blow	
	22:16-GMT	Position: 169° / 1106 m Dir: West; Behavior: Slow travel	
	15:18:00 PDT	Blow	
	22:18-GMT	Position: 174° / 1020 m Dir: West; Behavior: Slow travel	
	15:20:00 PDT	Blow	
	22:20-GMT	Position: 176° / 1106 m Dir: West; Behavior: Slow travel	
	15:24:00 PDT	Blow	
	22:24-GMT	Position: 194° / 883 m Dir: West; Behavior: Slow travel	
	15:27:00 PDT	Blow	
	22:27-GMT	Position: 215° / 946 m Dir: West; Behavior: Slow travel	
	15:30:00 PDT	Blow	
	22:30-GMT	Position: 224° / 1106 m Dir: West; Behavior: Slow travel	
	15:33:00 PDT	Blow	
	22:33-GMT	Position: 240° / 1106 m Dir: West; Behavior: Slow travel	
	15:45:00 PDT	Blow	Inside / Outside
	22:45-GMT	Position: 264° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	31	Fair - 1	Er Total 2 — 0 Calves at sighting
	15:07:00 PDT	ni / ni	
	22:07-GMT	Position: 188° / 5027 m Dir: West; Behavior: Slow travel	
	15:15:00 PDT	Blow	
	22:15-GMT	Position: 195° / 5027 m Dir: West; Behavior: Slow travel	
	15:21:00 PDT	Blow	
	22:21-GMT	Position: 200° / 5027 m Dir: West; Behavior: Slow travel	
	15:25:00 PDT	Blow	
	22:25-GMT	Position: 203° / 5027 m Dir: West; Behavior: Slow travel	
	15:31:00 PDT	Blow	
	22:31-GMT	Position: 207° / 5027 m Dir: West; Behavior: Slow travel	
	15:38:00 PDT	Blow	
	22:38-GMT	Position: 214° / 5027 m Dir: West; Behavior: Slow travel	
	15:44:00 PDT	Blow	Outside / Outside
	22:44-GMT	Position: 219° / 5027 m Dir: West; Behavior: Slow travel	

Mar 31 Total 15 Calves 0
Day 53 of 105

Er Gray whale (northbound)

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	03 Good - 0	Er Total 1 — 0 Calves at sighting	
	9:33:00 PDT	ni / Blow	
	16:33-GMT	Position: 133° / 3528 m Dir: West; Behavior: Slow travel	
	10:04:00 PDT	Blow	
	17:04-GMT	Position: 144° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 173° / 1106 m Dir: West; Behavior: Slow travel	
	10:19:00 PDT	Body	
	17:19-GMT	Position: 230° / 1483 m Dir: West; Behavior: Slow travel	
	10:28:00 PDT	Body	Inside / Outside
	17:28-GMT	Position: 246° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	15 Fair - 0	Er Total 1 — 0 Calves at sighting Disappeared	
	13:32:00 PDT	ni / Body	Inside / nd
	20:32-GMT	Position: 178° / 550 m Dir: West; Behavior: Slow travel	
		<i>one surface + gone - could have been seen earlier by observer @ 90/.5</i>	
Sighting Number	16 Fair - 0	Er Total 1 — 0 Calves at sighting	
	13:41:00 PDT	ni / Blow	
	20:41-GMT	Position: 118° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
	13:46:00 PDT	Body	
	20:46-GMT	Position: 129° / 1106 m Dir: West; Behavior: Slow travel	
	13:49:00 PDT	Blow	
	20:49-GMT	Position: 147° / 778 m Dir: West; Behavior: Slow travel	
	13:53:00 PDT	Blow	
	20:53-GMT	Position: 185° / 471 m Dir: West; Behavior: Slow travel • Fluke	
	13:58:00 PDT	Blow	Inside / Outside
	20:58-GMT	Position: 242° / 696 m Dir: West; Behavior: Slow travel	
Sighting Number	17 Fair - 0	Er Total 5 — 0 Calves at sighting	
	14:00:00 PDT	ni / Blow	
	21:00-GMT	Position: 148° / 5027 m Dir: West; Behavior: Slow travel	
		<i>lead 2 + 3 trail</i>	
	14:10:00 PDT	Blow	
	21:10-GMT	Position: 149° / 5027 m Dir: West; Behavior: Slow travel	
	14:35:00 PDT	Blow	
	21:35-GMT	Position: 158° / 3088 m Dir: West; Behavior: Slow travel	
	14:44:00 PDT	Blow	
	21:44-GMT	Position: 164° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	15:03:00 PDT	Blow	
	22:03-GMT	Position: 182° / 2260 m Dir: West; Behavior: Slow travel	
	15:11:00 PDT	Blow	
	22:11-GMT	Position: 194° / 2260 m Dir: West; Behavior: Slow travel	
	15:19:00 PDT	Blow	
	22:19-GMT	Position: 216° / 2260 m Dir: West; Behavior: Slow travel	
	15:23:00 PDT	Body	
	22:23-GMT	Position: 219° / 2260 m Dir: West; Behavior: Slow travel • Rolling	
	15:28:00 PDT	Blow	
	22:28-GMT	Position: 222° / 2749 m Dir: West; Behavior: Slow travel • Rolling	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	15:31:00 PDT	Blow	
	22:31-GMT	Position: 224° / 2749 m Dir: West; Behavior: Slow travel • Bubbles seen • Rolling	
	15:34:00 PDT	Blow	
	22:34-GMT	Position: 228° / 2749 m Dir: West; Behavior: Slow travel • Fluke • Rolling	
	15:52:00 PDT	Blow	Inside / Outside
	22:52-GMT	Position: 242° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	18	Fair - 0	Er Total 2 — 0 Calves at sighting
	14:24:00 PDT	ni / Blow	
	21:24-GMT	Position: 110° / 2260 m Dir: West; Behavior: Slow travel	
	14:42:00 PDT	Body	
	21:42-GMT	Position: 140° / 827 m Dir: West; Behavior: Slow travel	
	14:48:00 PDT	Blow	
	21:48-GMT	Position: 190° / 455 m Dir: West; Behavior: Slow travel	
	14:55:00 PDT	Blow	Inside / Outside
	21:55-GMT	Position: 247° / 735 m Dir: West; Behavior: Slow travel	
Sighting Number	21	Fair - 1	Er Total 3 — 0 Calves at sighting
	16:34:00 PDT	ni / Blow	
	23:34-GMT	Position: 121° / 5027 m Dir: West; Behavior: Slow travel	
	16:48:00 PDT	Blow	nd / nd
	23:48-GMT	Position: 123° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	22	Fair - 1	Er Total 2 — 0 Calves at sighting
	16:41:00 PDT	ni / Blow	
	23:41-GMT	Position: 266° / 1483 m Dir: West; Behavior: Slow travel	
	16:42:00 PDT	Blow	Inside / Outside
	23:42-GMT	Position: 271° / 1483 m Dir: West; Behavior: Slow travel	
Apr 01 Total 5 Calves 0			
Day 54 of 105			
Er Gray whale (northbound)			
Sighting Number	18	Fair - 1	Er Total 4 — 0 Calves at sighting
	13:18:00 PDT	ni / Blow	
	20:18-GMT	Position: 191° / 3528 m Dir: West; Behavior: Slow travel	
	13:20:00 PDT	Blow	
	20:20-GMT	Position: 202° / 3528 m Dir: West; Behavior: Slow travel	
	13:22:00 PDT	Blow	
	20:22-GMT	Position: 197° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:32:00 PDT	Blow	
	20:32-GMT	Position: 208° / 3528 m Dir: West; Behavior: Slow travel	
	13:44:00 PDT	Blow	
	20:44-GMT	Position: 221° / 5027 m Dir: West; Behavior: Slow travel	
	13:48:00 PDT	Blow	
	20:48-GMT	Position: 226° / 5027 m Dir: West; Behavior: Slow travel	
	13:51:00 PDT	Blow	Outside / Outside
	20:51-GMT	Position: 228° / 5027 m Dir: West; Behavior: Slow travel • Spyhop	
Sighting Number	35	Fair - 1	Er Total 1 — 0 Calves at sighting
	16:49:00 PDT	ni / Body	
	23:49-GMT	Position: 172° / 883 m Dir: West; Behavior: Slow travel	
		<i>juvenile</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoy
	16:51:00 PDT	Body	
	23:51-GMT	Position: 176° / 827 m Dir: West; Behavior: Slow travel	
	16:55:00 PDT	Body	
	23:55-GMT	Position: 172° / 827 m Dir: West; Behavior: Slow travel	
	16:57:00 PDT	Body	Inside / nd
	23:57-GMT	Position: 178° / 735 m Dir: West; Behavior: Slow travel	
<hr/>			
Apr 02 Day 55 of 105	Total 1 Calves 0	Er Gray whale (northbound)	
Sighting Number	06	Poor - 0	Er Total 1 — 0 Calves at sighting
	14:08:00 PDT	ni / Blow	
	21:08-GMT	Position: 153° / 696 m Dir: West; Behavior: Slow travel	
	14:15:00 PDT	Body	
	21:15-GMT	Position: 215° / 600 m Dir: West; Behavior: Slow travel	
	14:21:00 PDT	Body	Inside / Outside
	21:21-GMT	Position: 250° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
<hr/>			
Apr 03 Day 56 of 105	Total 6 Calves 0	Er Gray whale (northbound)	
Sighting Number	09	Fair - 3	Er Total 4 — 0 Calves at sighting
	12:49:00 PDT	ni / Blow	
	19:49-GMT	Position: 162° / 3528 m Dir: West; Behavior: Slow travel	
	12:50:00 PDT	Blow	
	19:50-GMT	Position: 167° / 3528 m Dir: West; Behavior: Slow travel	
	12:56:00 PDT	Blow	
	19:56-GMT	Position: 174° / 3528 m Dir: West; Behavior: Slow travel	
	13:00:00 PDT	Blow	
	20:00-GMT	Position: 179° / 3528 m Dir: West; Behavior: Slow travel	
	13:07:00 PDT	Blow	
	20:07-GMT	Position: 191° / 3528 m Dir: West; Behavior: Slow travel	
	13:12:00 PDT	Blow	
	20:12-GMT	Position: 203° / 3528 m Dir: West; Behavior: Slow travel	
	13:15:00 PDT	Blow	
	20:15-GMT	Position: 205° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:18:00 PDT	Blow	
	20:18-GMT	Position: 209° / 3528 m Dir: West; Behavior: Slow travel	
	13:19:00 PDT	Blow	
	20:19-GMT	Position: 213° / 3528 m Dir: West; Behavior: Slow travel	
	13:25:00 PDT	Blow	
	20:25-GMT	Position: 221° / 3528 m Dir: West; Behavior: Slow travel • Fluke	
	13:34:00 PDT	Blow	Outside / Outside
	20:34-GMT	Position: 235° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	16	Poor - 3	Er Total 2 — 0 Calves at sighting
	16:35:00 PDT	ni / Blow	
	23:35-GMT	Position: 106° / 2260 m Dir: West; Behavior: Slow travel	
	16:43:00 PDT	Blow	
	23:43-GMT	Position: 111° / 1922 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	14:23:00 PDT	Blow	
	21:23-GMT	Position: 195° / 1483 m Dir: West; Behavior: Slow travel • Fluke <i>group came up together</i>	
	14:29:00 PDT	Blow	
	21:29-GMT	Position: 220° / 1331 m Dir: West; Behavior: Slow travel <i>single blow</i>	
	14:31:00 PDT	Blow	
	21:31-GMT	Position: 229° / 1331 m Dir: West; Behavior: Slow travel • Fluke <i>group of blows</i>	
	14:37:00 PDT	Blow	
	21:37-GMT	Position: 242° / 2260 m Dir: West; Behavior: Slow travel • Fluke <i>single blow then group of blows</i>	
	14:43:00 PDT	Blow	Inside / Outside
	21:43-GMT	Position: 254° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	19	Good - 3	Er Total 1 — 0 Calves at sighting
	15:07:00 PDT	Passerby /	
	22:07-GMT	Position: 144° / 489 m Dir: West; Behavior: Slow travel <i>cue tip: Polly</i>	
	15:10:00 PDT	Blow	
	22:10-GMT	Position: 194° / 440 m Dir: West; Behavior: Slow travel	
	15:13:00 PDT	Body	Inside / nd
	22:13-GMT	Position: 241° / 412 m Dir: West; Behavior: Slow travel	
Sighting Number	24	Good - 3	Er Total 1 — 0 Calves at sighting
	16:57:00 PDT	ni / Blow	
	23:57-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel <i>juvenile</i>	
	17:00:00 PDT	Blow	
	0:00; 4/5/2011-GMT	Position: 106° / 2749 m Dir: West; Behavior: Slow travel	
	17:04:00 PDT	Blow	
	0:04; 4/5/2011-GMT	Position: 108° / 2260 m Dir: West; Behavior: Slow travel	
	17:09:00 PDT	Blow	
	0:09; 4/5/2011-GMT	Position: 114° / 1922 m Dir: West; Behavior: Slow travel	
	17:15:00 PDT	Blow	Inside / nd
	0:15; 4/5/2011-GMT	Position: 127° / 1331 m Dir: West; Behavior: Slow travel	
Apr 05	Total 5 Calves 0	Er Gray whale (northbound)	
Day 58 of 105			
Sighting Number	12	Fair - 0	Er Total 3 — 0 Calves at sighting
	12:37:00 PDT	ni / Blow	
	19:37-GMT	Position: 134° / 3088 m Dir: West; Behavior: Slow travel	
	12:42:00 PDT	Blow	
	19:42-GMT	Position: 142° / 3088 m Dir: West; Behavior: Slow travel	
	12:56:00 PDT	Blow	
	19:56-GMT	Position: 181° / 2749 m Dir: West; Behavior: Slow travel	
	13:08:00 PDT	Blow	
	20:08-GMT	Position: 226° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	13:17:00 PDT	Blow	Inside / Outside
	20:17-GMT	Position: 247° / 2260 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	23 Fair - 3	Er Total 1 — 0 Calves at sighting	
	16:40:00 PDT	ni / Blow	
	23:40-GMT	Position: 177° / 2749 m Dir: West; Behavior: Slow travel	
	16:46:00 PDT	Blow	
	23:46-GMT	Position: 192° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	16:53:00 PDT	Blow	
	23:53-GMT	Position: 211° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	17:00:00 PDT	Blow	
	0:00; 4/6/2011-GMT	Position: 221° / 3088 m Dir: West; Behavior: Slow travel	
	17:07:00 PDT	ni	Outside / Outside
	0:07; 4/6/2011-GMT	Position: 230° / 3528 m Dir: West; Behavior: Slow travel	
Sighting Number	24 Fair - 3	Er Total 1 — 0 Calves at sighting	
	16:50:00 PDT	ni / Blow	
	23:50-GMT	Position: 135° / 778 m Dir: West; Behavior: Slow travel • Fluke	
		<i>possible juvenile</i>	
	16:59:00 PDT	Blow	Inside / nd
	23:59-GMT	Position: 213° / 508 m Dir: West; Behavior: Slow travel	
Apr 06	Total 12 Calves 0	Er Gray whale (northbound)	
Day 59 of 105			
Sighting Number	02 Poor - 0	Er Total 2 — 0 Calves at sighting	
	9:43:00 PDT	ni / Blow	
	16:43-GMT	Position: 110° / 1922 m Dir: West; Behavior: Slow travel	
	9:46:00 PDT	Blow	
	16:46-GMT	Position: 112° / 1483 m Dir: West; Behavior: Slow travel	
	9:49:00 PDT	Blow	
	16:49-GMT	Position: 116° / 1331 m Dir: West; Behavior: Slow travel	
	9:52:00 PDT	Body	
	16:52-GMT	Position: 119° / 946 m Dir: West; Behavior: Slow travel	
	9:55:00 PDT	Blow	
	16:55-GMT	Position: 134° / 600 m Dir: West; Behavior: Slow travel	
	9:57:00 PDT	Blow	
	16:57-GMT	Position: 151° / 489 m Dir: West; Behavior: Slow travel	
	9:58:00 PDT	Body	
	16:58-GMT	Position: 174° / 455 m Dir: West; Behavior: Slow travel	
	10:01:00 PDT	Body	
	17:01-GMT	Position: 208° / 412 m Dir: West; Behavior: Slow travel	
	10:03:00 PDT	Body	
	17:03-GMT	Position: 241° / 489 m Dir: West; Behavior: Slow travel	
	10:06:00 PDT	Body	
	17:06-GMT	Position: 288° / 489 m Dir: West; Behavior: Slow travel • Breach	
		<i>3 breaches</i>	
	10:07:00 PDT	Blow	Inside / Inside
	17:07-GMT	Position: 290° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	03 Poor - 0	Er Total 3 — 0 Calves at sighting	
	10:05:00 PDT	ni / Blow	
	17:05-GMT	Position: 170° / 2749 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:06:00 PDT	Body	
	17:06-GMT	Position: 173° / 2749 m Dir: West; Behavior: Slow travel • Breach <i>breach at the same time as S#2</i>	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 187° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	10:22:00 PDT	Blow	
	17:22-GMT	Position: 194° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	10:29:00 PDT	Body	
	17:29-GMT	Position: 213° / 2749 m Dir: West; Behavior: Slow travel	
	10:37:00 PDT	Blow	
	17:37-GMT	Position: 227° / 2749 m Dir: West; Behavior: Slow travel • Rolling • Fluke	
	10:47:00 PDT	Blow	Inside / Outside
	17:47-GMT	Position: 243° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	05 Poor - 0	Er Total 2 — 0 Calves at sighting	
	10:14:00 PDT	ni / Body	
	17:14-GMT	Position: 199° / 1106 m Dir: West; Behavior: Slow travel	
	10:15:00 PDT	Body	Inside / nd
	17:15-GMT	Position: 207° / 1106 m Dir: West; Behavior: Slow travel • Fluke	
Sighting Number	14 Fair - 2	Er Total 1 — 0 Calves at sighting	
	12:59:00 PDT	SD / Blow	
	19:59-GMT	Position: 114° / 3088 m Dir: West; Behavior: Slow travel	
	13:04:00 PDT	Blow	
	20:04-GMT	Position: 121° / 2749 m Dir: West; Behavior: Slow travel	
	13:10:00 PDT	Blow	
	20:10-GMT	Position: 134° / 1483 m Dir: West; Behavior: Slow travel	
	13:17:00 PDT	Body	
	20:17-GMT	Position: 164° / 1208 m Dir: West; Behavior: Slow travel	
	13:23:00 PDT	Blow	
	20:23-GMT	Position: 207° / 946 m Dir: West; Behavior: Slow travel	
	13:24:00 PDT	Blow	
	20:24-GMT	Position: 215° / 1106 m Dir: West; Behavior: Slow travel	
	13:30:00 PDT	Blow	
	20:30-GMT	Position: 244° / 1483 m Dir: West; Behavior: Slow travel	
	13:39:00 PDT	Blow	Inside / Outside
	20:39-GMT	Position: 264° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	22 Fair - 2	Er Total 3 — 0 Calves at sighting	
	15:28:00 PDT	ni / Blow	
	22:28-GMT	Position: 170° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	15:36:00 PDT	Body	
	22:36-GMT	Position: 197° / 1922 m Dir: West; Behavior: Slow travel • Fluke	
	15:42:00 PDT	Blow	
	22:42-GMT	Position: 219° / 1922 m Dir: West; Behavior: Slow travel	
	15:48:00 PDT	Blow	
	22:48-GMT	Position: 239° / 1674 m Dir: West; Behavior: Slow travel	
	15:49:00 PDT	Blow	
	22:49-GMT	Position: 239° / 1922 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	15:55:00 PDT	Blow	Inside / Outside
	22:55-GMT	Position: 251° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	25 Fair - 1	Er Total 1 — 0 Calves at sighting	
	16:54:00 PDT	ni / Blow	Inside / nd
	23:54-GMT	Position: 225° / 678 m Dir: West; Behavior: Slow travel	
<hr/>			
Apr 08	Total 3 Calves 1	Er Gray whale (northbound)	
Day 61 of 105			
	Sighting Number	09 Good - 3	Er Total 2 — 1 Calf at sighting
Images: 3630-3694			
	15:01:00 PDT	ni / Blow	
	22:01-GMT	Position: 110° / 1331 m Dir: West; Behavior: Slow travel	
		<i>calf trailing very closely behind mother, then alongside her right (shore) side - At least one instance of simultaneous mother/calf blows - very close contact - classic cow/calf - no goofiness - lingered at Ellwood - sighted by Larry Hess</i>	
	15:07:00 PDT	Blow	
	22:07-GMT	Position: 111° / 1208 m Dir: West; Behavior: Slow travel	
	15:10:00 PDT	Blow	
	22:10-GMT	Position: 117° / 678 m Dir: West; Behavior: Slow travel • Fluke	
	15:13:00 PDT	Body	
	22:13-GMT	Position: 135° / 508 m Dir: West; Behavior: Slow travel	
	15:14:00 PDT	Blow	
	22:14-GMT	Position: 145° / 550 m Dir: West; Behavior: Slow travel	
	15:17:00 PDT	Blow	
	22:17-GMT	Position: 168° / 455 m Dir: West; Behavior: Slow travel	
	15:18:00 PDT	Body	
	22:18-GMT	Position: 193° / 388 m Dir: West; Behavior: Slow travel	
	15:20:00 PDT	Blow	
	22:20-GMT	Position: 219° / 293 m Dir: West; Behavior: Slow travel	
	15:22:00 PDT	Blow	
	22:22-GMT	Position: 250° / 440 m Dir: West; Behavior: Slow travel	
	15:23:00 PDT	Blow	
	22:23-GMT	Position: 260° / 489 m Dir: West; Behavior: Slow travel	
	15:26:00 PDT	Body	
	22:26-GMT	Position: 281° / 735 m Dir: West; Behavior: Slow travel	
	15:28:00 PDT	Blow	Inside / Inside
	22:28-GMT	Position: 292° / 1020 m Dir: West; Behavior: Slow travel	
Sighting Number	10 Good - 3	Er Total 1 — 0 Calves at sighting	
	16:08:00 PDT	ni / Blow	
	23:08-GMT	Position: 113° / 3088 m Dir: West; Behavior: Slow travel	
	16:17:00 PDT	Blow	
	23:17-GMT	Position: 121° / 2749 m Dir: West; Behavior: Slow travel	
	16:23:00 PDT	Blow	
	23:23-GMT	Position: 128° / 2260 m Dir: West; Behavior: Slow travel	
	16:30:00 PDT	Blow	
	23:30-GMT	Position: 142° / 1483 m Dir: West; Behavior: Slow travel	
	16:38:00 PDT	Blow	
	23:38-GMT	Position: 171° / 1331 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	Time		
	16:46:00 PDT	Blow	Inside / Outside
	23:46-GMT	Position: 223° / 946 m Dir: West; Behavior: Slow travel	
<hr/>			
Apr 09 Total 2 Calves 0	Er Gray whale (northbound)		
Day 62 of 105			
Sighting Number	05	Poor - 4	Er Total 2 — 0 Calves at sighting
	11:46:00 PDT	ni / Blow	
	18:46-GMT	Position: 115° / 1674 m Dir: West; Behavior: Slow travel	
<hr/>			
Apr 10 Total 2 Calves 0	Er Gray whale (northbound)		
Day 63 of 105			
Sighting Number	13	Fair - 2	Er Total 1 — 0 Calves at sighting
	10:53:00 PDT	ni / Blow	
	17:53-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel	
	10:56:00 PDT	Blow	
	17:56-GMT	Position: 107° / 2749 m Dir: West; Behavior: Slow travel	
	11:01:00 PDT	Blow	
	18:01-GMT	Position: 110° / 2260 m Dir: West; Behavior: Slow travel	
	11:06:00 PDT	Blow	nd / nd
	18:06-GMT	Position: 115° / 1331 m Dir: West; Behavior: Slow travel	
		<i>disappeared - intimidated by dolphins? - seeps very active</i>	
Sighting Number	17	Fair - 2	Er Total 1 — 0 Calves at sighting
	12:56:00 PDT	Boat / Blow	
	19:56-GMT	Position: 101° / 2260 m Dir: West; Behavior: Slow travel	
	13:04:00 PDT	Blow	
	20:04-GMT	Position: 105° / 1922 m Dir: West; Behavior: Slow travel	
		<i>small boat V#16 circling in front of whale</i>	
	13:07:00 PDT	Blow	
	20:07-GMT	Position: 107° / 1922 m Dir: West; Behavior: Slow travel	
	13:10:00 PDT	Blow	
	20:10-GMT	Position: 112° / 1922 m Dir: West; Behavior: Slow travel	
	13:13:00 PDT	Blow	
	20:13-GMT	Position: 118° / 1922 m Dir: West; Behavior: Slow travel	
	13:21:00 PDT	Blow	
	20:21-GMT	Position: 139° / 1331 m Dir: West; Behavior: Slow travel • Fluke	
	13:26:00 PDT	Blow	
	20:26-GMT	Position: 154° / 1020 m Dir: West; Behavior: Slow travel	
	13:28:00 PDT	Blow	
	20:28-GMT	Position: 167° / 827 m Dir: West; Behavior: Slow travel	
	13:35:00 PDT	Blow	
	20:35-GMT	Position: 206° / 678 m Dir: West; Behavior: Slow travel	
	13:38:00 PDT	Blow	
	20:38-GMT	Position: 230° / 661 m Dir: West; Behavior: Slow travel	
	13:41:00 PDT	Blow	
	20:41-GMT	Position: 251° / 827 m Dir: West; Behavior: Slow travel • Fluke	
	13:56:00 PDT	Blow	Inside / Outside
	20:56-GMT	Position: 271° / 1922 m Dir: West; Behavior: Slow travel	
		<i>very long downtime - T? seeps?</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
Apr 11 Day 64 of 105	Total 9 Calves 0	Er Gray whale (northbound)	
Sighting Number	11	Fair - 1	Er Total 2 — 0 Calves at sighting
	12:24:00 PDT	ni / Blow	
	19:24-GMT	Position: 144° / 2749 m Dir: West; Behavior: Slow travel	
	12:32:00 PDT	Blow	
	19:32-GMT	Position: 162° / 2260 m Dir: West; Behavior: Slow travel	
	13:09:00 PDT	Blow	Inside / Outside
	20:09-GMT	Position: 255° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	14:42:00 PDT	Blow	
	21:42-GMT	Position: 194° / 1674 m Dir: West; Behavior: Slow travel	
Sighting Number	13	Fair - 1	Er Total 3 — 0 Calves at sighting
	12:43:00 PDT	ni / Blow	
	19:43-GMT	Position: 131° / 1922 m Dir: West; Behavior: Slow travel	
	12:51:00 PDT	Blow	
	19:51-GMT	Position: 154° / 1331 m Dir: West; Behavior: Slow travel	
	13:00:00 PDT	Blow	
	20:00-GMT	Position: 198° / 1403 m Dir: West; Behavior: Slow travel	
	13:14:00 PDT	Blow	
	20:14-GMT	Position: 222° / 1674 m Dir: West; Behavior: Slow travel	
	13:23:00 PDT	Blow	Inside / Outside
	20:23-GMT	Position: 241° / 1922 m Dir: West; Behavior: Slow travel	
Sighting Number	15	Fair - 1	Er Total 1 — 0 Calves at sighting
	12:54:00 PDT	ni / Body	
	19:54-GMT	Position: 234° / 447 m Dir: West; Behavior: Slow travel	
	12:58:00 PDT	Body	Inside / Inside
	19:58-GMT	Position: 270° / 629 m Dir: West; Behavior: Slow travel	
Sighting Number	22	Fair - 2	Er Total 2 — 0 Calves at sighting
	15:26:00 PDT	ni / Blow	
	22:26-GMT	Position: 116° / 946 m Dir: West; Behavior: Slow travel	
	15:31:00 PDT	Body	
	22:31-GMT	Position: 136° / 661 m Dir: West; Behavior: Slow travel <i>not blowing much but can see backs in water</i>	
	15:34:00 PDT	Blow	
	22:34-GMT	Position: 174° / 412 m Dir: West; Behavior: Slow travel • Fluke	
	15:38:00 PDT	Blow	
	22:38-GMT	Position: 254° / 356 m Dir: West; Behavior: Slow travel	
	15:40:00 PDT	Blow	
	22:40-GMT	Position: 276° / 600 m Dir: West; Behavior: Slow travel <i>had behavior of cow/calf but were not</i>	
	15:42:00 PDT	Body	Inside / Inside
	22:42-GMT	Position: 290° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	23	Fair - 2	Er Total 1 — 0 Calves at sighting
	16:28:00 PDT	ni / Blow	
	23:28-GMT	Position: 177° / 1483 m Dir: West; Behavior: Slow travel • Fluke	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:34:00 PDT	Blow	
	23:34-GMT	Position: 201° / 1483 m Dir: West; Behavior: Slow travel • Fluke	
	16:40:00 PDT	Blow	
	23:40-GMT	Position: 228° / 1674 m Dir: West; Behavior: Slow travel	
	<i>6 blows</i>		
	16:49:00 PDT	Body	Inside / Outside
	23:49-GMT	Position: 254° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
Apr 12 Total 3 Calves 0 Day 65 of 105	Er Gray whale (northbound)		
Sighting Number	01 Fair - 3	Er Total 1 — 0 Calves at sighting	
	8:57:00 PDT	ni / Blow	
	15:57-GMT	Position: 159° / 296 m Dir: West; Behavior: Slow travel • Rolling	
	<i>juvenile perhaps feeding?</i>		
	8:58:00 PDT	Blow	nd / nd
	15:58-GMT	Position: 162° / 296 m Dir: West; Behavior: Slow travel • Rolling	
Sighting Number	16 Fair - 2	Er Total 2 — 0 Calves at sighting	
	13:56:00 PDT	ni / Blow	
	20:56-GMT	Position: 164° / 629 m Dir: West; Behavior: Slow travel	
	14:00:00 PDT	Blow	
	21:00-GMT	Position: 219° / 696 m Dir: West; Behavior: Slow travel	
	14:06:00 PDT	Blow	Inside / Outside
	21:06-GMT	Position: 258° / 946 m Dir: West; Behavior: Slow travel	
Apr 13 Total 3 Calves 0 Day 66 of 105	Er Gray whale (northbound)		
Sighting Number	03 Fair - 3	Er Total 2 — 0 Calves at sighting	
	9:17:00 PDT	ni / Blow	
	16:17-GMT	Position: 119° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
	<i>pair of juveniles</i>		
	9:25:00 PDT	Blow	
	16:25-GMT	Position: 156° / 528 m Dir: West; Behavior: Slow travel • Fluke	
	9:30:00 PDT	Blow	
	16:30-GMT	Position: 219° / 426 m Dir: West; Behavior: Slow travel	
	9:31:00 PDT	Blow	
	16:31-GMT	Position: 242° / 528 m Dir: West; Behavior: Slow travel	
	9:39:00 PDT	Blow	Inside / Through
	16:39-GMT	Position: 278° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Fair - 3	Er Total 1 — 0 Calves at sighting	
	10:55:00 PDT	ni / Body	
	17:55-GMT	Position: 149° / 356 m Dir: West; Behavior: Slow travel • Spyhop	
	10:57:00 PDT	Body	
	17:57-GMT	Position: 194° / 300 m Dir: West; Behavior: Slow travel	
	11:00:00 PDT	Body	Inside / Inside
	18:00-GMT	Position: 258° / 347 m Dir: West; Behavior: Slow travel	
	<i>juvenile</i>		
Apr 14 Total 8 Calves 1 Day 67 of 105	Er Gray whale (northbound)		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	08 Fair - 2	Er Total 2 — 0 Calves at sighting	
	11:52:00 PDT	ni / Blow	
	18:52-GMT	Position: 125° / 3088 m Dir: West; Behavior: Slow travel	
	11:53:00 PDT	Blow	
	18:53-GMT	Position: 126° / 3088 m Dir: West; Behavior: Slow travel	
	12:14:00 PDT	Blow	
	19:14-GMT	Position: 152° / 2749 m Dir: West; Behavior: Slow travel • Fluke	
	12:24:00 PDT	Body	
	19:24-GMT	Position: 172° / 1483 m Dir: West; Behavior: Slow travel	
	12:31:00 PDT	Blow	
	19:31-GMT	Position: 200° / 1106 m Dir: West; Behavior: Slow travel	
	12:33:00 PDT	Blow	
	19:33-GMT	Position: 213° / 5027 m Dir: West; Behavior: Slow travel	
	12:45:00 PDT	Blow	Inside / Outside
	19:45-GMT	Position: 254° / 1674 m Dir: West; Behavior: Slow travel	
Sighting Number	14 Fair - 1	Er Total 2 — 1 Calf at sighting	
	13:20:00 PDT	ni / Blow	
	20:20-GMT	Position: 107° / 1922 m Dir: West; Behavior: Slow travel	
	<i>saw @ Campus Pt - very confusing - at kelp - in kelp -passed in front - very close - mom seemed protective - after Point mom snorkled with calf - approached buoys - barge inside - barge discharging something, causing current (images 3923-3925) - whale likely went outside buoys</i>		
	13:30:00 PDT	Blow	
	20:30-GMT	Position: 116° / 913 m Dir: West; Behavior: Slow travel	
	13:34:00 PDT	Blow	
	20:34-GMT	Position: 127° / 600 m Dir: West; Behavior: Slow travel	
	13:37:00 PDT	Body	
	20:37-GMT	Position: 151° / 440 m Dir: West; Behavior: Slow travel	
	13:39:00 PDT	Blow	
	20:39-GMT	Position: 184° / 388 m Dir: West; Behavior: Slow travel	
	13:42:00 PDT	Blow	
	20:42-GMT	Position: 215° / 388 m Dir: West; Behavior: Slow travel	
	13:45:00 PDT	Body	
	20:45-GMT	Position: 253° / 550 m Dir: West; Behavior: Slow travel	
	13:49:00 PDT	Body	Inside / Inside
	20:49-GMT	Position: 266° / 883 m Dir: West; Behavior: Slow travel	
	13:50:00 PDT	Blow	
	20:50-GMT	Position: 110° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	18 Fair - 0	Er Total 2 — 0 Calves at sighting	
	14:29:00 PDT	ni / Blow	
	21:29-GMT	Position: 158° / 2260 m Dir: West; Behavior: Slow travel • Fluke	
	14:39:00 PDT	Blow	
	21:39-GMT	Position: 173° / 1674 m Dir: West; Behavior: Slow travel • Fluke	
	14:49:00 PDT	Blow	
	21:49-GMT	Position: 202° / 1483 m Dir: West; Behavior: Slow travel	
	14:59:00 PDT	Blow	Inside / Outside
	21:59-GMT	Position: 229° / 1674 m Dir: West; Behavior: Slow travel • Fluke	

Images: 3913-3922

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	24 Fair - 0	Er Total 2 — 0 Calves at sighting	
	15:51:00 PDT	ni / Body	
	22:51-GMT	Position: 134° / 1331 m Dir: West; Behavior: Slow travel	
	15:56:00 PDT	Body	
	22:56-GMT	Position: 151° / 1208 m Dir: West; Behavior: Slow travel	
	15:59:00 PDT	Body	
	22:59-GMT	Position: 159° / 1106 m Dir: West; Behavior: Slow travel	
	16:08:00 PDT	Body	
	23:08-GMT	Position: 205° / 946 m Dir: West; Behavior: Slow travel	
	16:11:00 PDT	Blow	
	23:11-GMT	Position: 227° / 1106 m Dir: West; Behavior: Slow travel	
		<i>very small blow</i>	
	16:14:00 PDT	Blow	
	23:14-GMT	Position: 238° / 1106 m Dir: West; Behavior: Slow travel	
		<i>could have been cow/calf - didn't see enough</i>	
Apr 15	Total 4 Calves 1	Er Gray whale (northbound)	
Day 68 of 105			
Sighting Number	08 Fair - 2	Er Total 2 — 0 Calves at sighting	
	10:37:00 PDT	ni / Blow	
	17:37-GMT	Position: 100° / 3088 m Dir: West; Behavior: Slow travel	
	10:45:00 PDT	Blow	
	17:45-GMT	Position: 99° / 2260 m Dir: West; Behavior: Slow travel	
	10:47:00 PDT	Blow	
	17:47-GMT	Position: 101° / 2260 m Dir: West; Behavior: Slow travel	
	10:51:00 PDT	Blow	
	17:51-GMT	Position: 103° / 1922 m Dir: West; Behavior: Slow travel	
	10:54:00 PDT	Blow	
	17:54-GMT	Position: 104° / 1922 m Dir: West; Behavior: Slow travel	
		<i>1 big blow - 2 little blows</i>	
	10:57:00 PDT	Blow	
	17:57-GMT	Position: 108° / 1674 m Dir: West; Behavior: Slow travel	
	10:58:00 PDT	Blow	
	17:58-GMT	Position: 109° / 1483 m Dir: West; Behavior: Slow travel	
	11:00:00 PDT	Blow	
	18:00-GMT	Position: 110° / 1331 m Dir: West; Behavior: Slow travel	
	11:01:00 PDT	Blow	
	18:01-GMT	Position: 109° / 1106 m Dir: West; Behavior: Slow travel	
		<i>bubble blast</i>	
	11:03:00 PDT	Blow	
	18:03-GMT	Position: 111° / 946 m Dir: West; Behavior: Slow travel	
	11:07:00 PDT	Blow	
	18:07-GMT	Position: 122° / 629 m Dir: West; Behavior: Slow travel	
	11:09:00 PDT	Blow	
	18:09-GMT	Position: 139° / 600 m Dir: West; Behavior: Slow travel	
	11:12:00 PDT	Blow	
	18:12-GMT	Position: 194° / 338 m Dir: West; Behavior: Slow travel	
		<i>possible 3rd whale?</i>	

Images: 3963-3965

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	11:13:00 PDT	Blow	Inside / nd
	18:13-GMT	Position: 132° / 382 m Dir: West; Behavior: Slow travel	
Sighting Number	15 Fair - 2	Er Total 2 — 1 Calf at sighting	
Images: 4022-4066	13:21:00 PDT	ni / Blow	
	20:21-GMT	Position: 144° / 1331 m Dir: West; Behavior: Slow travel	
		<i>calf on oceanside at first - hard to find - frequent blowing, though - turned around @ 226 heading east - perhaps mom corralling calf - put on shoreside - 2000 commons further out heading east - dolphins foraging with head down</i>	
	13:26:00 PDT	Blow	
	20:26-GMT	Position: 155° / 1208 m Dir: West; Behavior: Slow travel	
	13:27:00 PDT	Body	
	20:27-GMT	Position: 157° / 1106 m Dir: West; Behavior: Slow travel	
	13:30:00 PDT	Blow	
	20:30-GMT	Position: 163° / 946 m Dir: West; Behavior: Slow travel	
	13:31:00 PDT	Blow	
	20:31-GMT	Position: 168° / 946 m Dir: West; Behavior: Slow travel	
	13:35:00 PDT	Splash	
	20:35-GMT	Position: 195° / 574 m Dir: West; Behavior: Slow travel	
	13:37:00 PDT	Body	
	20:37-GMT	Position: 211° / 574 m Dir: West; Behavior: Slow travel	
	13:40:00 PDT	Blow	
	20:40-GMT	Position: 241° / 550 m Dir: West; Behavior: Slow travel	
	13:41:00 PDT	Body	
	20:41-GMT	Position: 240° / 508 m Dir: East; Behavior: Slow travel	
	13:44:00 PDT	Blow	
	20:44-GMT	Position: 241° / 489 m Dir: West; Behavior: Slow travel	
	13:46:00 PDT	Blow	
	20:46-GMT	Position: 259° / 550 m Dir: West; Behavior: Slow travel	
	13:50:00 PDT	Blow	
	20:50-GMT	Position: 259° / 735 m Dir: West; Behavior: Slow travel	
	13:53:00 PDT	Blow	
	20:53-GMT	Position: 257° / 1020 m Dir: West; Behavior: Slow travel	
	13:58:00 PDT	Blow	Inside / Outside
	20:58-GMT	Position: 264° / 1674 m Dir: West; Behavior: Slow travel	

Apr 16 Total 6 Calves 3
Day 69 of 105

Er Gray whale (northbound)

Sighting Number	04 Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: none	9:20:00 PDT	ni / Blow	
	16:20-GMT	Position: 113° / 3088 m Dir: West; Behavior: Slow travel	
		<i>close but when first seen, apart as they passed - whales very close - less frequent surfacing past Holly - not very close to Point - outside buoys</i>	
	9:34:00 PDT	Blow	
	16:34-GMT	Position: 118° / 2749 m Dir: West; Behavior: Slow travel	
	9:35:00 PDT	Blow	
	16:35-GMT	Position: 126° / 1922 m Dir: West; Behavior: Slow travel	
	9:40:00 PDT	Blow	
	16:40-GMT	Position: 123° / 2749 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	9:50:00 PDT	Blow	
	16:50-GMT	Position: 140° / 1483 m Dir: West; Behavior: Slow travel	
	9:53:00 PDT	Blow	
	16:53-GMT	Position: 151° / 1331 m Dir: West; Behavior: Slow travel	
	9:57:00 PDT	Blow	
	16:57-GMT	Position: 200° / 827 m Dir: West; Behavior: Slow travel	
	10:02:00 PDT	Blow	Inside / Outside
	17:02-GMT	Position: 237° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Good - 1	Er Total 2 — 1 Calf at sighting	
Images: 4093-4174	12:18:00 PDT	ni / Blow	
	19:18-GMT	Position: 104° / 3528 m Dir: West; Behavior: Slow travel	
	<i>surfacing often in surf at Sands Beach - spy hopping and showing his flippers - staying put in the surf, don't see mom in the surf - **inside Campus Point boat traveled over whales, at Counter Pt whales surfaced next to (images 4095-4103) small fishing boat - boat (image 4154, get CF#) chased whales toward buoys. Condor arrived positioned outside buoys, unfortunately blocking that direction - whales swam under small boat inside buoys along Sands.</i>		
	12:22:00 PDT	Blow	
	19:22-GMT	Position: 110° / 1922 m Dir: West; Behavior: Slow travel	
	12:31:00 PDT	Blow	
	19:31-GMT	Position: 113° / 1331 m Dir: West; Behavior: Slow travel	
	12:32:00 PDT	Blow	
	19:32-GMT	Position: 115° / 946 m Dir: West; Behavior: Slow travel	
	12:37:00 PDT	Blow	
	19:37-GMT	Position: 123° / 550 m Dir: West; Behavior: Slow travel	
	12:38:00 PDT	Blow	
	19:38-GMT	Position: 131° / 528 m Dir: West; Behavior: Slow travel	
	12:41:00 PDT	Blow	
	19:41-GMT	Position: 148° / 388 m Dir: West; Behavior: Slow travel	
	12:44:00 PDT	Blow	
	19:44-GMT	Position: 184° / 338 m Dir: West; Behavior: Slow travel	
	12:50:00 PDT	Blow	
	19:50-GMT	Position: 267° / 661 m Dir: West; Behavior: Slow travel	
	12:54:00 PDT	Blow	
	19:54-GMT	Position: 289° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	15 Good - 1	Er Total 2 — 1 Calf at sighting	
Images: 4176-4265	16:03:00 PDT	Boat / Blow	
	23:03-GMT	Position: 102° / 3088 m Dir: West; Behavior: Slow travel	
	<i>Bubble blast possibly in response to approach of stardust? - Condor followed up to COP - commercial fishing boat passed on south side (Stardust) - whales turned around about 220 degrees and headed east into kelp just outside surf - after bobbing around a bit mom gave bubble blast and pair started west again</i>		
	16:06:00 PDT	Blow	
	23:06-GMT	Position: 105° / 2749 m Dir: West; Behavior: Slow travel	
	16:08:00 PDT	Blow	
	23:08-GMT	Position: 107° / 1922 m Dir: West; Behavior: Slow travel	
	16:11:00 PDT	Blow	
	23:11-GMT	Position: 109° / 1403 m Dir: West; Behavior: Slow travel	
	16:17:00 PDT	Blow	
	23:17-GMT	Position: 108° / 883 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	16:18:00 PDT 23:18-GMT	Blow Position: 114° / 678 m Dir: West; Behavior: Slow travel	
	16:20:00 PDT 23:20-GMT	Blow Position: 117° / 539 m Dir: West; Behavior: Slow travel	
	16:22:00 PDT 23:22-GMT	Blow Position: 146° / 356 m Dir: West; Behavior: Slow travel	
	16:25:00 PDT 23:25-GMT	Blow Position: 183° / 314 m Dir: West; Behavior: Slow travel	
	16:26:00 PDT 23:26-GMT	Blow Position: 206° / 293 m Dir: West; Behavior: Slow travel	
	16:29:00 PDT 23:29-GMT	Body Position: 217° / 231 m Dir: East; Behavior: Slow travel • Spynop	
	16:31:00 PDT 23:31-GMT	Blow Position: 217° / 212 m Dir: East; Behavior: Slow travel • Bubbles seen	
	16:36:00 PDT 23:36-GMT	Blow Position: 272° / 388 m Dir: West; Behavior: Slow travel	
	16:39:00 PDT 23:39-GMT	Body Position: 288° / 696 m Dir: West; Behavior: Slow travel	Inside / Inside

Apr 17 Total 3 Calves 1
Day 70 of 105

Er Gray whale (northbound)

Sighting Number	01	Fair - 1	Er Total 2 — 1 Calf at sighting
		8:31:00 PDT 15:31-GMT	ni / Body Position: 188° / 574 m Dir: West; Behavior: Slow travel <i>short breathing cycle ~1 min - nursing directly off Counter Pt - calf spyhoped - last seen outside of surf @ Sands - Erin saw pair as she was riding to Point - We ran out together and they popped up right off Point moving west - right away they turned around heading back toward us and coming closer to Point - rolled - calf dove toward cow - Nursing? - cow gave bubble blast - Stardust came by going west - whales turned back west - fluke - traveled inside buoys - slowly moved towards Ellwood</i>
		8:33:00 PDT 15:33-GMT	Body Position: 213° / 330 m Dir: West; Behavior: Slow travel
		8:34:00 PDT 15:34-GMT	Body Position: 214° / 307 m Dir: West; Behavior: Slow travel <i>nursing?</i>
		8:38:00 PDT 15:38-GMT	Blow Position: 250° / 629 m Dir: West; Behavior: Slow travel
Sighting Number	02	Fair - 1	Er
		8:38:00 PDT 15:38-GMT	Blow Position: 255° / 508 m Dir: West; Behavior: Slow travel
		8:41:00 PDT 15:41-GMT	Blow Position: 272° / 735 m Dir: West; Behavior: Slow travel
		8:46:00 PDT 15:46-GMT	Blow Position: 293° / 1208 m Dir: West; Behavior: Slow travel Inside / Inside
Sighting Number	09	Fair - 1	Er Total 1 — 0 Calves at sighting
		10:03:00 PDT 17:03-GMT	Boat / Blow Position: 102° / 2260 m Dir: West; Behavior: Slow travel <i>Condor is following whale</i>

Images: 4266-4343

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	10:09:00 PDT	Blow	
	17:09-GMT	Position: 102° / 1922 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 104° / 1674 m Dir: West; Behavior: Slow travel	
	10:47:00 PDT	Blow	
	17:47-GMT	Position: 234° / 471 m Dir: East; Behavior: Slow travel <i>changed direction</i>	
	10:51:00 PDT	Blow	
	17:51-GMT	Position: 248° / 508 m Dir: East; Behavior: Slow travel • Milling	
	11:03:00 PDT	Blow	
	18:03-GMT	Position: 241° / 550 m Dir: no direction; Behavior: Slow travel • Fluke • Milling <i>facing east but not traveling, feeding?</i>	
	11:10:00 PDT	Blow	
	18:10-GMT	Position: 231° / 455 m Dir: no direction; Behavior: Slow travel • Milling	
	11:19:00 PDT	Blow	
	18:19-GMT	Position: 248° / 455 m Dir: no direction; Behavior: Slow travel • Milling	
	11:28:00 PDT	Blow	
	18:28-GMT	Position: 257° / 539 m Dir: West; Behavior: Slow travel • Milling	
	11:37:00 PDT	Blow	
	18:37-GMT	Position: 260° / 539 m Dir: East; Behavior: Slow travel • Milling <i>still not really traveling - unusual behavior</i>	
	11:43:00 PDT	Blow	
	18:43-GMT	Position: 257° / 539 m Dir: West; Behavior: Slow travel • Milling	
	11:49:00 PDT	Blow	
	18:49-GMT	Position: 264° / 678 m Dir: East; Behavior: Slow travel • Milling	
	11:59:00 PDT	Blow	
	18:59-GMT	Position: 259° / 447 m Dir: East; Behavior: Slow travel • Milling	
	12:08:00 PDT	Blow	
	19:08-GMT	Position: 263° / 696 m Dir: East; Behavior: Slow travel • Milling	
	12:15:00 PDT	Body	
	19:15-GMT	Position: 261° / 539 m Dir: East; Behavior: Slow travel • Milling	
	12:30:00 PDT	Blow	
	19:30-GMT	Position: 234° / 539 m Dir: East; Behavior: Slow travel • Milling	
	14:27:00 PDT	Blow	
	21:27-GMT	Position: 145° / 735 m Dir: West; Behavior: Slow travel	
	14:41:00 PDT	Blow	
	21:41-GMT	Position: 217° / 455 m Dir: West; Behavior: Slow travel	
	14:47:00 PDT	Blow	
	21:47-GMT	Position: 218° / 489 m Dir: no direction; Behavior: Slow travel	
	14:58:00 PDT	Blow	
	21:58-GMT	Position: 236° / 489 m Dir: East; Behavior: Slow travel • Fluke • Milling	
	15:06:00 PDT	Blow	
	22:06-GMT	Position: 234° / 489 m Dir: East; Behavior: Slow travel	
	15:15:00 PDT	Blow	Inside / nd
	22:15-GMT	Position: 209° / 539 m Dir: East; Behavior: Slow travel • Milling • Fluke	

Images: 4437

Images: 4439-4443

Apr 18 Total 6 Calves 2
Day 71 of 105

Er Gray whale (northbound)

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	03 Poor - 1	Er Total 2 — 1 Calf at sighting	
Images: 4468 - 4534 (includes some pelicans)	9:49:00 PDT	ni / Blow	
	16:49-GMT	Position: 127° / 1331 m Dir: West; Behavior: Slow travel <i>frequent, small blows - many surfaces without blows - by buoys, fewer blows and surfaces - deep dives? - maintaining position? - Condor Express on whales from Isla Vista - maintained distance</i>	
	9:52:00 PDT	ni	
	16:52-GMT	Position: 133° / 913 m Dir: West; Behavior: Slow travel	
	9:56:00 PDT	Blow	
	16:56-GMT	Position: 162° / 539 m Dir: West; Behavior: Slow travel	
	9:58:00 PDT	Body	
	16:58-GMT	Position: 198° / 539 m Dir: West; Behavior: Slow travel	
	10:02:00 PDT	Body	
	17:02-GMT	Position: 145° / 600 m Dir: West; Behavior: Slow travel	
	10:06:00 PDT	Body	
	17:06-GMT	Position: 272° / 735 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 282° / 827 m Dir: West; Behavior: Slow travel	
	10:15:00 PDT	Blow	
17:15-GMT	Position: 287° / 883 m Dir: no direction; Behavior: not traveling		
10:17:00 PDT	Blow		
17:17-GMT	Position: 293° / 883 m Dir: West; Behavior: not traveling		
10:21:00 PDT	Blow		Inside / Outside
17:21-GMT	Position: 293° / 1331 m Dir: West; Behavior: Slow travel • Fluke		
Sighting Number	09 Fair - 2	Er Total 1 — 0 Calves at sighting	
	13:15:00 PDT	ni / Blow	
	20:15-GMT	Position: 144° / 600 m Dir: West; Behavior: Slow travel	
	13:17:00 PDT	Blow	
	20:17-GMT	Position: 172° / 508 m Dir: West; Behavior: Slow travel	
	13:20:00 PDT	Blow	
	20:20-GMT	Position: 211° / 489 m Dir: West; Behavior: Slow travel	
	13:26:00 PDT	Blow	
	20:26-GMT	Position: 257° / 661 m Dir: West; Behavior: Slow travel	
	13:31:00 PDT	ni	Inside / Through
	20:31-GMT	Position: 277° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	10 Fair - 2	Er Total 1 — 0 Calves at sighting	
	13:44:00 PDT	ni / Blow	
	20:44-GMT	Position: 139° / 550 m Dir: West; Behavior: Slow travel	
	13:47:00 PDT	Blow	
	20:47-GMT	Position: 172° / 528 m Dir: West; Behavior: Slow travel	
	13:51:00 PDT	Blow	Inside / nd
	20:51-GMT	Position: 219° / 550 m Dir: West; Behavior: Slow travel <i>whale did not surface again</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	11 Good - 3	Er Total 2 — 1 Calf at sighting	
Images: 4580-4645	14:29:00 PDT	ni / Blow	
	21:29-GMT	Position: 102° / 3088 m Dir: West; Behavior: Slow travel <i>started to head west away from beach - only saw surface once - lots of surfacing - calf close - sometimes on other side</i>	
	14:35:00 PDT	Blow	
	21:35-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	14:43:00 PDT	Blow	
	21:43-GMT	Position: 108° / 2749 m Dir: West; Behavior: Slow travel	
	14:46:00 PDT	Blow	
	21:46-GMT	Position: 107° / 2260 m Dir: West; Behavior: Slow travel	
	14:49:00 PDT	Body	
	21:49-GMT	Position: 110° / 1922 m Dir: West; Behavior: Slow travel	
	14:50:00 PDT	Body	
	21:50-GMT	Position: 110° / 1674 m Dir: West; Behavior: Slow travel	
	14:52:00 PDT	Body	
	21:52-GMT	Position: 112° / 1483 m Dir: West; Behavior: Slow travel	
	14:56:00 PDT	Blow	
	21:56-GMT	Position: 117° / 1331 m Dir: West; Behavior: Slow travel	
	14:58:00 PDT	Blow	
	21:58-GMT	Position: 124° / 1106 m Dir: West; Behavior: Slow travel	
	15:00:00 PDT	Body	
	22:00-GMT	Position: 134° / 778 m Dir: West; Behavior: Slow travel	
	15:03:00 PDT	Blow	
	22:03-GMT	Position: 167° / 778 m Dir: West; Behavior: Slow travel	
	15:06:00 PDT	Blow	
	22:06-GMT	Position: 206° / 440 m Dir: West; Behavior: Slow travel	
	15:08:00 PDT	Body	
	22:08-GMT	Position: 229° / 412 m Dir: West; Behavior: Slow travel	
	15:11:00 PDT	Body	
	22:11-GMT	Position: 256° / 412 m Dir: West; Behavior: Slow travel	
	15:12:00 PDT	Blow	
	22:12-GMT	Position: 264° / 412 m Dir: West; Behavior: Slow travel	
	15:17:00 PDT	Blow	Inside / Inside
	22:17-GMT	Position: 286° / 696 m Dir: West; Behavior: Slow travel	
Apr 19 Total 13 Calves 4 Day 72 of 105	Er Gray whale (northbound)		
Sighting Number	07 Fair - 3	Er Total 3 — 1 Calf at sighting	
Images: none	10:59:00 PDT	Boat / Blow	
	17:59-GMT	Position: 101° / 2260 m Dir: West; Behavior: Slow travel <i>saw cow on surface frequently - fast travel past Counter Point - boat was following whales @ Campus Point - not much on surface - never all 3 whales - 285/.5 2 blows outside kelp, commotion in kelp? no blows - 265/.3</i>	
	11:12:00 PDT	Blow	
	18:12-GMT	Position: 102° / 1922 m Dir: West; Behavior: Slow travel	
	11:17:00 PDT	Blow	
	18:17-GMT	Position: 107° / 1331 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	11:21:00 PDT	Blow	
	18:21-GMT	Position: 111° / 1106 m Dir: West; Behavior: Slow travel	
	11:26:00 PDT	Blow	
	18:26-GMT	Position: 130° / 913 m Dir: West; Behavior: Slow travel	
	11:28:00 PDT	Body	
	18:28-GMT	Position: 167° / 400 m Dir: West; Behavior: Slow travel	
	11:29:00 PDT	Body	
	18:29-GMT	Position: 184° / 330 m Dir: West; Behavior: Slow travel	
	11:32:00 PDT	Body	
	18:32-GMT	Position: 222° / 447 m Dir: West; Behavior: Slow travel	
	11:34:00 PDT	Body	
	18:34-GMT	Position: 237° / 528 m Dir: West; Behavior: Slow travel	
	11:37:00 PDT	Body	
	18:37-GMT	Position: 282° / 827 m Dir: West; Behavior: Slow travel	
	11:39:00 PDT	Blow	Inside / Inside
	18:39-GMT	Position: 292° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	10	Fair - 2	Er Total 4 — 1 Calf at sighting
	12:51:00 PDT	ni / Blow	
	19:51-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel	
	12:54:00 PDT	Blow	
	19:54-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
	12:56:00 PDT	Blow	
	19:56-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel	
	12:58:00 PDT	Blow	
	19:58-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
	13:09:00 PDT	Blow	
	20:09-GMT	Position: 106° / 1483 m Dir: West; Behavior: Slow travel	
	13:15:00 PDT	Blow	
	20:15-GMT	Position: 109° / 1106 m Dir: West; Behavior: Slow travel	
		<i>4 whales split - cow/calf?</i>	
	13:16:00 PDT	Blow	
	20:16-GMT	Position: 111° / 946 m Dir: West; Behavior: Slow travel	
		<i>Condor near</i>	
	13:19:00 PDT	Blow	
	20:19-GMT	Position: 115° / 696 m Dir: West; Behavior: Slow travel	
	13:21:00 PDT	Blow	
	20:21-GMT	Position: 124° / 508 m Dir: West; Behavior: Slow travel	
	13:23:00 PDT	Blow	
	20:23-GMT	Position: 134° / 508 m Dir: West; Behavior: Slow travel	
	13:24:00 PDT	Blow	
	20:24-GMT	Position: 152° / 508 m Dir: West; Behavior: Slow travel	
	13:24:00 PDT	Blow	
	20:24-GMT	Position: 165° / 356 m Dir: West; Behavior: Slow travel	
	13:25:00 PDT	Blow	
	20:25-GMT	Position: 183° / 356 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	13:29:00 PDT	Blow	
	20:29-GMT	Position: 239° / 388 m Dir: West; Behavior: Slow travel <i>distracted by V#12</i>	
	13:30:00 PDT	Blow	
	20:30-GMT	Position: 246° / 347 m Dir: West; Behavior: Slow travel	
	13:35:00 PDT	ni	
	20:35-GMT	Position: 256° / 489 m Dir: West; Behavior: Slow travel	
Images: 4814	13:38:00 PDT	Blow	Inside / Inside
	20:38-GMT	Position: 275° / 827 m Dir: West; Behavior: Slow travel	
Sighting Number	13 Fair - 1	Er Total 3 — 1 Calf at sighting	
	13:36:00 PDT	ni / Blow	
	20:36-GMT	Position: 146° / 913 m Dir: West; Behavior: Slow travel	
	13:39:00 PDT	Blow	nd / nd
	20:39-GMT	Position: 164° / 827 m Dir: West; Behavior: Slow travel <i>V#14 crossed path</i>	
Sighting Number	17 Fair - 2	Er Total 3 — 1 Calf at sighting	
	14:06:00 PDT	ni / Blow	
	21:06-GMT	Position: 132° / 600 m Dir: West; Behavior: Slow travel	
	14:09:00 PDT	Blow	
	21:09-GMT	Position: 155° / 471 m Dir: West; Behavior: Slow travel	
	14:11:00 PDT	Blow	
	21:11-GMT	Position: 193° / 400 m Dir: West; Behavior: Slow travel <i>calf on inside</i>	
	14:12:00 PDT	Blow	
	21:12-GMT	Position: 204° / 314 m Dir: West; Behavior: Slow travel	
	14:14:00 PDT	Blow	
	21:14-GMT	Position: 225° / 388 m Dir: West; Behavior: Slow travel	
	14:16:00 PDT	Blow	
	21:16-GMT	Position: 248° / 508 m Dir: West; Behavior: Slow travel	
	14:19:00 PDT	Blow	
	21:19-GMT	Position: 271° / 629 m Dir: West; Behavior: Slow travel	
	14:22:00 PDT	Blow	Inside / Inside
	21:22-GMT	Position: 273° / 696 m Dir: West; Behavior: Slow travel	
Apr 20	Total 4 Calves 1	Er Gray whale (northbound)	
Day 73 of 105			
Sighting Number	01 Poor - 1	Er Total 1 — 0 Calves at sighting	
	9:07:00 PDT	ni / Blow	
	16:07-GMT	Position: 180° / 600 m Dir: West; Behavior: Slow travel <i>juvenile</i>	
	9:11:00 PDT	Blow	Inside / nd
	16:11-GMT	Position: 229° / 735 m Dir: West; Behavior: Slow travel	
Sighting Number	14 Fair - 4	Er Total 2 — 1 Calf at sighting	
	15:53:00 PDT	ni / Blow	
	22:53-GMT	Position: 228° / 539 m Dir: West; Behavior: Slow travel <i>did not see until past Point - cow blow in air, then calf - very close - cow seemed to guide - traveled through buoys</i>	
Images: none	15:59:00 PDT	Blow	
	22:59-GMT	Position: 244° / 489 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:02:00 PDT	Blow	
	23:02-GMT	Position: 263° / 827 m Dir: West; Behavior: Slow travel	
	16:05:00 PDT	Blow	Inside / Through
	23:05-GMT	Position: 274° / 1331 m Dir: West; Behavior: Slow travel	
Sighting Number	16 Fair - 4	Er Total 1 — 0 Calves at sighting	
	16:40:00 PDT	ni / Blow	
	23:40-GMT	Position: 107° / 3088 m Dir: West; Behavior: Slow travel	
	17:04:00 PDT	Blow	Inside / nd
	0:04; 4/21/2011-GMT	Position: 227° / 366 m Dir: West; Behavior: Slow travel	
Apr 22	Total 2 Calves 1	Er Gray whale (northbound)	
Day 75 of 105			
Sighting Number	07 Fair - 2	Er Total 2 — 1 Calf at sighting	
<i>Images: 5224 - 5242</i>	10:01:00 PDT	ni / Blow	
	17:01-GMT	Position: 180° / 347 m Dir: West; Behavior: Slow travel	
		<i>infrequent blows past buoys - calf traveled far from cow past buoys - first saw right in front of Counter Pt - a little moving around - calf on both sides - bubble blast before buoys - change direction?</i>	
	10:05:00 PDT	Blow	
	17:05-GMT	Position: 230° / 412 m Dir: East; Behavior: Slow travel	
		<i>turned around</i>	
	10:09:00 PDT	Blow	
	17:09-GMT	Position: 262° / 489 m Dir: West; Behavior: Slow travel • Bubbles seen	
		<i>bubble blast</i>	
	10:12:00 PDT	Blow	
	17:12-GMT	Position: 280° / 508 m Dir: West; Behavior: Slow travel • Bubbles seen	
	10:18:00 PDT	Blow	Inside / Inside
	17:18-GMT	Position: 300° / 661 m Dir: West; Behavior: Slow travel • Spyhop	
Apr 23	Total 20 Calves 9	Er Gray whale (northbound)	
Day 76 of 105			
Sighting Number	02 Fair - 1	Er Total 2 — 1 Calf at sighting	
<i>Images: none</i>	8:45:00 PDT	ni / Blow	
	15:45-GMT	Position: 253° / 574 m Dir: West; Behavior: Slow travel	
		<i>traveled through buoys towards Sands - dolphins appeared after whales first seen - position not entered</i>	
	8:46:00 PDT	Blow	
	15:46-GMT	Position: 260° / 528 m Dir: West; Behavior: Slow travel • Bubbles seen	
	8:48:00 PDT	Blow	
	15:48-GMT	Position: 271° / 913 m Dir: West; Behavior: Slow travel	
	8:49:00 PDT	Blow	
	15:49-GMT	Position: 274° / 913 m Dir: West; Behavior: Slow travel	
	8:51:00 PDT	Blow	Inside / Through
	15:51-GMT	Position: 287° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	03 Fair - 1	Er Total 1 — 0 Calves at sighting	
	9:00:00 PDT	ni / Blow	
	16:00-GMT	Position: 153° / 426 m Dir: West; Behavior: Slow travel	
		<i>juvenile, possibly yearling</i>	
	9:05:00 PDT	Blow	
	16:05-GMT	Position: 255° / 508 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	9:10:00 PDT	Blow	Inside / Inside
	16:10-GMT	Position: 286° / 913 m Dir: West; Behavior: Slow travel	
Sighting Number	06 Fair - 2	Er Total 1 — 0 Calves at sighting	
	9:36:00 PDT	ni / Blow	
	16:36-GMT	Position: 112° / 2260 m Dir: West; Behavior: Slow travel <i>probably juvenile</i>	
	9:50:00 PDT	Blow	
	16:50-GMT	Position: 140° / 1208 m Dir: West; Behavior: Slow travel	
	9:57:00 PDT	Blow	
	16:57-GMT	Position: 173° / 827 m Dir: West; Behavior: Slow travel	
	10:01:00 PDT	Blow	Inside / nd
	17:01-GMT	Position: 216° / 696 m Dir: West; Behavior: Slow travel	
Sighting Number	13 Good - 3	Er Total 8 — 4 Calves at sighting	
	12:15:00 PDT	ni / Blow	
	19:15-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel <i>whales were lined up as if racing - surfacing often - traveling unusually fast for cow/calf pair - went by Sands w/o playing - group split up into 2 + 6 near Sands - in 2006 or 7 there was a killer whale attack on a gray whale cow/calf pair offshore. I believe it was one or two days later that 5 pairs gathered at Campus Point and raced toward Counter Point. These are the only 2 killer whale attacks near us and the only 2 racing behaviors</i>	
	12:21:00 PDT	Blow	
	19:21-GMT	Position: 105° / 2749 m Dir: West; Behavior: Slow travel	
	12:24:00 PDT	Blow	
	19:24-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
	12:29:00 PDT	Blow	
	19:29-GMT	Position: 110° / 1208 m Dir: West; Behavior: Slow travel	
	12:31:00 PDT	Blow	
	19:31-GMT	Position: 114° / 827 m Dir: West; Behavior: Slow travel	
	12:33:00 PDT	Blow	
	19:33-GMT	Position: 123° / 629 m Dir: West; Behavior: Slow travel	
	12:34:00 PDT	Blow	
	19:34-GMT	Position: 136° / 489 m Dir: West; Behavior: Slow travel	
	12:37:00 PDT	Blow	
	19:37-GMT	Position: 182° / 400 m Dir: West; Behavior: Slow travel	
	12:39:00 PDT	Blow	
	19:39-GMT	Position: 220° / 356 m Dir: West; Behavior: Slow travel	
	12:41:00 PDT	Blow	
	19:41-GMT	Position: 260° / 489 m Dir: West; Behavior: Slow travel	
	12:43:00 PDT	Blow	
	19:43-GMT	Position: 277° / 574 m Dir: West; Behavior: Slow travel	
	12:44:00 PDT	Blow	
	19:44-GMT	Position: 283° / 735 m Dir: West; Behavior: Slow travel	
	12:45:00 PDT	Blow	
	19:45-GMT	Position: 288° / 883 m Dir: West; Behavior: Slow travel <i>almost moderate travel</i>	
	12:47:00 PDT	Blow	Inside / Inside
	19:47-GMT	Position: 296° / 1208 m Dir: West; Behavior: Slow travel	

Images: 5278 - 5523

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	14 Good - 3	Er Total 6 — 3 Calves at sighting	
Images: 5529 - 5694			
	13:35:00 PDT	ni / Blow	
	20:35-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel <i>lots of flipper waving near kelp E of Counter Pt - group split up E of Counter Pt - one pair went with dolphins + continued W - the others remained behind for quite a bit then also continued onwards - the first pair went inside the buoys and the others went outside</i>	
	13:38:00 PDT	Blow	
	20:38-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	13:40:00 PDT	Blow	
	20:40-GMT	Position: 106° / 1922 m Dir: West; Behavior: Slow travel	
	13:43:00 PDT	Blow	
	20:43-GMT	Position: 107° / 1483 m Dir: West; Behavior: Slow travel	
	13:45:00 PDT	Blow	
	20:45-GMT	Position: 106° / 1922 m Dir: West; Behavior: Slow travel • Spyhop <i>probably turned in kelp</i>	
	13:48:00 PDT	Blow	
	20:48-GMT	Position: 106° / 1483 m Dir: West; Behavior: Slow travel	
	13:52:00 PDT	Body	
	20:52-GMT	Position: 107° / 1483 m Dir: no direction; Behavior: Breach <i>mini breach</i>	
	13:53:00 PDT	Blow	
	20:53-GMT	Position: 107° / 1483 m Dir: no direction; Behavior: Rolling	
	13:55:00 PDT	Blow	
	20:55-GMT	Position: 106° / 1483 m Dir: no direction	
	13:57:00 PDT	Blow	
	20:57-GMT	Position: 107° / 1331 m Dir: no direction	
	13:59:00 PDT	Blow	
	20:59-GMT	Position: 106° / 1331 m Dir: no direction; Behavior: Rolling	
	14:02:00 PDT	Blow	
	21:02-GMT	Position: 110° / 1331 m Dir: West; Behavior: Slow travel	
	14:05:00 PDT	Blow	
	21:05-GMT	Position: 110° / 1106 m Dir: West; Behavior: Slow travel	
	14:09:00 PDT	Blow	
	21:09-GMT	Position: 114° / 946 m Dir: West; Behavior: Slow travel	
	14:12:00 PDT	Blow	
	21:12-GMT	Position: 119° / 778 m Dir: West; Behavior: Slow travel	
	14:14:00 PDT	Blow	
	21:14-GMT	Position: 124° / 661 m Dir: West; Behavior: Slow travel	
	14:16:00 PDT	Blow	
	21:16-GMT	Position: 128° / 508 m Dir: West; Behavior: Slow travel <i>pairs separating a bit</i>	
	14:20:00 PDT	Blow	
	21:20-GMT	Position: 138° / 440 m Dir: West; Behavior: Slow travel <i>split up</i>	
	14:22:00 PDT	Blow	
	21:22-GMT	Position: 145° / 356 m Dir: West; Behavior: Slow travel <i>one pair</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	14:26:00 PDT	Body	
	21:26-GMT	Position: 178° / 356 m Dir: West; Behavior: Slow travel	
	<i>1st pair</i>		
	14:32:00 PDT	Body	
	21:32-GMT	Position: 239° / 388 m Dir: West; Behavior: Slow travel	
	14:38:00 PDT	Blow	Inside / Inside
	21:38-GMT	Position: 276° / 778 m Dir: West; Behavior: Slow travel	
	<i>1st pair</i>		
Sighting Number	17	Good - 4	Er Total 2 — 1 Calf at sighting
Images: 5529 - 5694	14:42:00 PDT	ni / Blow	
	21:42-GMT	Position: 124° / 778 m Dir: West; Behavior: Slow travel	
	<i>not far behind the slower 4 whales from S#14, didn't see much of this pair - did travel inside the buoys and spotted the occasional small blow from the calf</i>		
	14:48:00 PDT	Blow	
	21:48-GMT	Position: 176° / 356 m Dir: West; Behavior: Slow travel	
	14:51:00 PDT	Blow	
	21:51-GMT	Position: 229° / 388 m Dir: West; Behavior: Slow travel	
	14:55:00 PDT	Blow	
	21:55-GMT	Position: 242° / 440 m Dir: West; Behavior: Slow travel	
	14:58:00 PDT	Blow	
	21:58-GMT	Position: 268° / 735 m Dir: West; Behavior: Slow travel	
	15:03:00 PDT	Blow	Inside / Inside
	22:03-GMT	Position: 300° / 1106 m Dir: West; Behavior: Slow travel	
Apr 24	Total 5 Calves 2	Er Gray whale (northbound)	
Day 77 of 105			
Sighting Number	03	Fair - 1	Er Total 2 — 1 Calf at sighting
Images: 5744 - 5809	9:44:00 PDT	ni / Blow	
	16:44-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
	<i>swam parallel to Sands inside buoys - calf had a distinctive white mark on its back (right side by dorsal hump) - just outside waves at Sands</i>		
	9:48:00 PDT	Blow	
	16:48-GMT	Position: 106° / 1922 m Dir: West; Behavior: Slow travel	
	9:50:00 PDT	Blow	
	16:50-GMT	Position: 107° / 1674 m Dir: West; Behavior: Slow travel	
	9:57:00 PDT	Blow	
	16:57-GMT	Position: 114° / 1106 m Dir: West; Behavior: Slow travel	
	10:02:00 PDT	Blow	
	17:02-GMT	Position: 124° / 600 m Dir: West; Behavior: Slow travel	
	10:04:00 PDT	Blow	
	17:04-GMT	Position: 144° / 471 m Dir: West; Behavior: Slow travel	
	10:08:00 PDT	Blow	
	17:08-GMT	Position: 182° / 382 m Dir: West; Behavior: Slow travel	
	10:10:00 PDT	Blow	
	17:10-GMT	Position: 209° / 382 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Body	
	17:11-GMT	Position: 237° / 382 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	10:13:00 PDT	Blow	
	17:13-GMT	Position: 262° / 447 m Dir: West; Behavior: Slow travel	
	10:14:00 PDT	Blow	
	17:14-GMT	Position: 270° / 539 m Dir: West; Behavior: Slow travel	
	10:15:00 PDT	Blow	
	17:15-GMT	Position: 278° / 539 m Dir: West; Behavior: Slow travel	
	10:19:00 PDT	Body	
	17:19-GMT	Position: 295° / 678 m Dir: West; Behavior: Slow travel	
		<i>parallel to Sands</i>	
	10:22:00 PDT	Blow	Inside / Inside
	17:22-GMT	Position: 308° / ni Dir: West; Behavior: Slow travel	
		<i>along Sands</i>	
Sighting Number	04	Good - 2	Er Total 1 — 0 Calves at sighting
	10:00:00 PDT	ni / Blow	
	17:00-GMT	Position: 111° / 1674 m Dir: West; Behavior: Slow travel	
	10:02:00 PDT	Blow	
	17:02-GMT	Position: 112° / 1674 m Dir: West; Behavior: Slow travel	
	10:07:00 PDT	Blow	
	17:07-GMT	Position: 120° / 1106 m Dir: West; Behavior: Slow travel	
	10:09:00 PDT	Blow	
	17:09-GMT	Position: 125° / 735 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Body	
	17:11-GMT	Position: 141° / 574 m Dir: West; Behavior: Slow travel	
	10:13:00 PDT	Blow	
	17:13-GMT	Position: 159° / 539 m Dir: West; Behavior: Slow travel	
	10:15:00 PDT	Body	
	17:15-GMT	Position: 188° / 400 m Dir: West; Behavior: Slow travel	
	10:26:00 PDT	Blow	Inside / Inside
	17:26-GMT	Position: 295° / 827 m Dir: West; Behavior: Slow travel	
Sighting Number	05	Good - 2	Er Total 2 — 1 Calf at sighting
	10:32:00 PDT	ni / Body	
	17:32-GMT	Position: 189° / 356 m Dir: West; Behavior: Slow travel	
		<i>first saw in front of Point - frequent surfacing to buoys - calf changed sides</i>	
	10:33:00 PDT	Blow	
	17:33-GMT	Position: 223° / 338 m Dir: West; Behavior: Slow travel	
	10:35:00 PDT	Body	
	17:35-GMT	Position: 252° / 455 m Dir: West; Behavior: Slow travel	
	10:41:00 PDT	Blow	ni / ni
	17:41-GMT	Position: 297° / 946 m Dir: West; Behavior: Slow travel	

Images: 5811 - 5833

Apr 25 Total 7 Calves 3
Day 78 of 105

Er Gray whale (northbound)

Sighting Number **05** Fair - 3 **Er Total 5 — 2 Calves at sighting**

Images: 5834 - 6196

	9:53:00 PDT	ni / Blow	
	16:53-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
		<i>spyhopping often - meandering in surf - changing directions - traveling with dolphins for most of the way - playing - rolling, spyhops, showing flippers - sometimes facing shore or islands - dolphins circling, in between, alongside</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	9:58:00 PDT	Blow	
	16:58-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel <i>traveling with dolphins</i>	
	10:04:00 PDT	Blow	
	17:04-GMT	Position: 102° / 1674 m Dir: West; Behavior: Slow travel	
	10:08:00 PDT	Blow	
	17:08-GMT	Position: 107° / 1483 m Dir: West; Behavior: Slow travel • Rolling	
	10:14:00 PDT	Blow	
	17:14-GMT	Position: 103° / 1106 m Dir: West; Behavior: Slow travel	
	10:17:00 PDT	Blow	
	17:17-GMT	Position: 104° / 946 m Dir: West; Behavior: Slow travel	
	10:18:00 PDT	Blow	
	17:18-GMT	Position: 105° / 778 m Dir: West; Behavior: Slow travel	
	10:19:00 PDT	Blow	
	17:19-GMT	Position: 106° / 778 m Dir: West; Behavior: Slow travel	
	10:20:00 PDT	Blow	
	17:20-GMT	Position: 110° / 778 m Dir: West; Behavior: Slow travel	
	10:21:00 PDT	Blow	
	17:21-GMT	Position: 107° / 778 m Dir: West; Behavior: Slow travel	
	10:23:00 PDT	Blow	
	17:23-GMT	Position: 109° / 696 m Dir: West; Behavior: Slow travel	
	10:24:00 PDT	Blow	
	17:24-GMT	Position: 111° / 696 m Dir: West; Behavior: Slow travel	
	10:26:00 PDT	Blow	
	17:26-GMT	Position: 120° / 489 m Dir: West; Behavior: Slow travel	
	10:28:00 PDT	Blow	
	17:28-GMT	Position: 120° / 455 m Dir: West; Behavior: Slow travel	
	10:29:00 PDT	Blow	
	17:29-GMT	Position: 123° / 440 m Dir: West; Behavior: Slow travel • Rolling	
	10:33:00 PDT	Blow	
	17:33-GMT	Position: 138° / 388 m Dir: West; Behavior: Slow travel	
	10:33:00 PDT	Blow	
	17:33-GMT	Position: 150° / 388 m Dir: West; Behavior: Slow travel	
	10:36:00 PDT	Blow	
	17:36-GMT	Position: 141° / 382 m Dir: East; Behavior: Slow travel	
	10:38:00 PDT	Blow	
	17:38-GMT	Position: 147° / 412 m Dir: East; Behavior: Slow travel	
	10:39:00 PDT	Blow	
	17:39-GMT	Position: 155° / 400 m Dir: West; Behavior: Slow travel	
	10:42:00 PDT	Blow	
	17:42-GMT	Position: 177° / 356 m Dir: West; Behavior: Slow travel • Rolling	
	10:44:00 PDT	Blow	
	17:44-GMT	Position: 198° / 307 m Dir: West; Behavior: Slow travel • Rolling • Spyhop	
	10:45:00 PDT	Blow	
	17:45-GMT	Position: 228° / 338 m Dir: West; Behavior: Slow travel	
	10:48:00 PDT	Blow	
	17:48-GMT	Position: 257° / 356 m Dir: West; Behavior: Slow travel • Spyhop	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	10:50:00 PDT	Blow	
	17:50-GMT	Position: 257° / 412 m Dir: West; Behavior: Slow travel • Rolling	
	10:51:00 PDT	Blow	
	17:51-GMT	Position: 265° / 471 m Dir: West; Behavior: Slow travel	
	10:54:00 PDT	Blow	
	17:54-GMT	Position: 278° / 550 m Dir: West; Behavior: Slow travel	
	10:55:00 PDT	Blow	Inside / Inside
	17:55-GMT	Position: 283° / 550 m Dir: West; Behavior: Slow travel	
Sighting Number	09	Fair - 3	Er Total 2 — 1 Calf at sighting
	12:30:00 PDT	ni / Blow	
	19:30-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	12:36:00 PDT	Blow	
	19:36-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	12:37:00 PDT	Blow	
	19:37-GMT	Position: 105° / 1922 m Dir: West; Behavior: Slow travel	
	12:39:00 PDT	Blow	
	19:39-GMT	Position: 104° / 1922 m Dir: West; Behavior: Slow travel	
	12:44:00 PDT	Blow	
	19:44-GMT	Position: 110° / 1483 m Dir: West; Behavior: Slow travel	
	12:46:00 PDT	Blow	
	19:46-GMT	Position: 111° / 1403 m Dir: West; Behavior: Slow travel	

Apr 26 Total 13 Calves 6
Day 79 of 105

Er Gray whale (northbound)

Sighting Number			
01	Fair - 3	Er Total 2 — 1 Calf at sighting	
	9:02:00 PDT	ni / Blow	
	16:02-GMT	Position: 117° / 946 m Dir: West; Behavior: Slow travel <i>calf traveling close behind and alongside cow</i>	
	9:08:00 PDT	Blow	
	16:08-GMT	Position: 144° / 550 m Dir: West; Behavior: Slow travel	
	9:10:00 PDT	Body	
	16:10-GMT	Position: 176° / 412 m Dir: West; Behavior: Slow travel <i>body w/o blow twice</i>	
	9:12:00 PDT	Blow	
	16:12-GMT	Position: 197° / 388 m Dir: West; Behavior: Slow travel	
	9:14:00 PDT	Blow	
	16:14-GMT	Position: 225° / 489 m Dir: West; Behavior: Slow travel <i>2 calf blows, 1 cow blow</i>	
	9:16:00 PDT	Blow	
	16:16-GMT	Position: 249° / 412 m Dir: West; Behavior: Slow travel <i>calf along cows right side</i>	
	9:18:00 PDT	Blow	
	16:18-GMT	Position: 267° / 696 m Dir: West; Behavior: Slow travel	
	9:22:00 PDT	Blow	
	16:22-GMT	Position: 284° / 455 m Dir: West; Behavior: Slow travel	
	9:27:00 PDT	ni	Inside / Inside
	16:27-GMT	Position: 294° / 1331 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	02 Fair - 3	Er Total 2 — 1 Calf at sighting	
Images: 6254 - 6258	9:35:00 PDT	ni / Blow	
	16:35-GMT	Position: 130° / 913 m Dir: West; Behavior: Slow travel <i>didn't see very much but enough - wind + chop a factor - seemed to be "traveling" - whales very close - calf tucked on flank</i>	
	9:44:00 PDT	Blow	
	16:44-GMT	Position: 221° / 489 m Dir: West; Behavior: Slow travel <i>calf blow</i>	
	9:45:00 PDT	Blow	Inside / nd
	16:45-GMT	Position: 226° / 471 m Dir: West; Behavior: Slow travel <i>cow + calf blow + body - calf behind cow</i>	
Sighting Number	03 Fair - 4	Er Total 2 — 1 Calf at sighting	
Images: none	9:59:00 PDT	ni / Blow	
	16:59-GMT	Position: 127° / 489 m Dir: West; Behavior: Slow travel <i>saw off Isla Vista kelp - saw calf later on other side - later head popped up</i>	
	10:05:00 PDT	Blow	
	17:05-GMT	Position: 151° / 400 m Dir: West; Behavior: Slow travel	
	10:07:00 PDT	Body	
	17:07-GMT	Position: 149° / 388 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 219° / 314 m Dir: West; Behavior: Slow travel	
	10:16:00 PDT	Blow	Inside / nd
	17:16-GMT	Position: 249° / 735 m Dir: West; Behavior: Slow travel • Spyhop	
Sighting Number	04 Fair - 4	Er Total 1 — 0 Calves at sighting	
	10:03:00 PDT	ni / Blow	
	17:03-GMT	Position: 150° / 827 m Dir: West; Behavior: Slow travel <i>juvenile</i>	
Sighting Number	06 Fair - 4	Er Total 2 — 1 Calf at sighting	
	10:30:00 PDT	ni / Blow	
	17:30-GMT	Position: 134° / 1106 m Dir: West; Behavior: Slow travel	
	10:34:00 PDT	Blow	
	17:34-GMT	Position: 159° / 574 m Dir: West; Behavior: Slow travel	
	10:40:00 PDT	Blow	
	17:40-GMT	Position: 213° / 661 m Dir: West; Behavior: Slow travel <i>calf traveling behind</i>	
	10:44:00 PDT	Blow	Inside / nd
	17:44-GMT	Position: 247° / 661 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Fair - 4	Er Total 4 — 2 Calves at sighting	
	10:47:00 PDT	ni / Blow	
	17:47-GMT	Position: 100° / 2749 m Dir: West; Behavior: Slow travel	
	10:50:00 PDT	Blow	
	17:50-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel <i>cows in the middle, calves on either side</i>	
	10:55:00 PDT	Blow	
	17:55-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	11:07:00 PDT	Blow	
	18:07-GMT	Position: 110° / 1331 m Dir: West; Behavior: Slow travel	
	11:13:00 PDT	Blow	
	18:13-GMT	Position: 114° / 946 m Dir: West; Behavior: Slow travel	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 130° / 508 m Dir: West; Behavior: Slow travel	
	11:21:00 PDT	Blow	
	18:21-GMT	Position: 157° / 508 m Dir: West; Behavior: Slow travel	
	11:27:00 PDT	Blow	
	18:27-GMT	Position: 217° / 366 m Dir: West; Behavior: Slow travel	
	11:29:00 PDT	Blow	
	18:29-GMT	Position: 242° / 455 m Dir: West; Behavior: Slow travel	
	11:30:00 PDT	Blow	
	18:30-GMT	Position: 256° / 440 m Dir: West; Behavior: Slow travel	
	11:33:00 PDT	Blow	
	18:33-GMT	Position: 275° / 508 m Dir: West; Behavior: Slow travel	
Images: 6262 - 6393	11:35:00 PDT	ni	Inside / Inside
	18:35-GMT	Position: 287° / 661 m Dir: West; Behavior: Slow travel <i>images @ Campus Pt with V#8 in waves at Sands/Ellwood</i>	
	12:25:00 PDT	Blow	
	19:25-GMT	Position: 190° / 455 m Dir: West; Behavior: Slow travel	

Apr 27 Total 8 Calves 4
Day 80 of 105

Er Gray whale (northbound)

Sighting Number 07

Good - 3 Er Total 2 — 1 Calf at sighting

Images: 6519 - 6573

	10:54:00 PDT	ni / Blow	
	17:54-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel <i>low profile calf - mother would surface once per calf's 3 surfaces - present in kelp in a few areas</i>	
	10:57:00 PDT	Blow	
	17:57-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
	11:03:00 PDT	Blow	
	18:03-GMT	Position: 110° / 1922 m Dir: West; Behavior: Slow travel	
	11:06:00 PDT	Blow	
	18:06-GMT	Position: 110° / 1674 m Dir: West; Behavior: Slow travel	
	11:08:00 PDT	Blow	
	18:08-GMT	Position: 108° / 1483 m Dir: West; Behavior: Slow travel	
	11:10:00 PDT	Blow	
	18:10-GMT	Position: 112° / 946 m Dir: West; Behavior: Slow travel	
	11:13:00 PDT	Blow	
	18:13-GMT	Position: 115° / 778 m Dir: West; Behavior: Slow travel	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 140° / 455 m Dir: West; Behavior: Slow travel	
	11:21:00 PDT	Blow	
	18:21-GMT	Position: 179° / 347 m Dir: West; Behavior: Slow travel	
	11:23:00 PDT	Blow	
	18:23-GMT	Position: 214° / 338 m Dir: West; Behavior: Slow travel	
	11:26:00 PDT	Blow	
	18:26-GMT	Position: 253° / 508 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	11:29:00 PDT	Blow	Inside / Inside
	18:29-GMT	Position: 275° / 696 m Dir: West; Behavior: Slow travel	
Sighting Number	08 Good - 3	Er Total 2 — 1 Calf at sighting	
Images: 6574 - 6584	11:16:00 PDT	ni / Blow	
	18:16-GMT	Position: 104° / 3088 m Dir: West; Behavior: Slow travel	
		<i>low profile calf - mother would surface with calf just barely surfacing 3 times afterard - poked into kelp in a couple of places - almost turned around at buoys</i>	
	11:20:00 PDT	Blow	
	18:20-GMT	Position: 106° / 2749 m Dir: West; Behavior: Slow travel	
	11:27:00 PDT	Blow	
	18:27-GMT	Position: 112° / 1922 m Dir: West; Behavior: Slow travel	
	11:30:00 PDT	Blow	
	18:30-GMT	Position: 111° / 1483 m Dir: West; Behavior: Slow travel	
	11:35:00 PDT	Blow	
	18:35-GMT	Position: 113° / 1483 m Dir: West; Behavior: Slow travel	
	11:37:00 PDT	Blow	
	18:37-GMT	Position: 115° / 1483 m Dir: West; Behavior: Slow travel	
	11:41:00 PDT	Blow	
	18:41-GMT	Position: 125° / 1106 m Dir: West; Behavior: Slow travel	
	11:45:00 PDT	Body	
	18:45-GMT	Position: 149° / 600 m Dir: West; Behavior: Slow travel	
	11:51:00 PDT	Blow	
	18:51-GMT	Position: 179° / 412 m Dir: West; Behavior: Slow travel	
	11:51:00 PDT	Blow	
	18:51-GMT	Position: 179° / 412 m Dir: West; Behavior: Slow travel	
	11:55:00 PDT	Blow	
	18:55-GMT	Position: 225° / 489 m Dir: West; Behavior: Slow travel	
	11:58:00 PDT	Blow	
	18:58-GMT	Position: 259° / 455 m Dir: West; Behavior: Slow travel	
	12:05:00 PDT	Blow	Inside / Inside
	19:05-GMT	Position: 296° / 778 m Dir: West; Behavior: Slow travel	
Sighting Number	09 Fair - 3	Er Total 4 — 2 Calves at sighting	
Images: 6592 - 6719	12:26:00 PDT	ni / Blow	
	19:26-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
		<i>mothers riding close to one another - frequently surfaces together - at least one pair paused at the buoys and switched directions before continuing in front of buoys</i>	
	12:32:00 PDT	Blow	
	19:32-GMT	Position: 109° / 1674 m Dir: West; Behavior: Slow travel	
	12:39:00 PDT	Blow	
	19:39-GMT	Position: 109° / 1208 m Dir: West; Behavior: Slow travel	
	12:42:00 PDT	Blow	
	19:42-GMT	Position: 113° / 827 m Dir: West; Behavior: Slow travel • Milling	
	12:45:00 PDT	Blow	
	19:45-GMT	Position: 116° / 661 m Dir: West; Behavior: Slow travel	
	12:48:00 PDT	Blow	
	19:48-GMT	Position: 129° / 455 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	12:51:00 PDT	Blow	
	19:51-GMT	Position: 145° / 471 m Dir: West; Behavior: Slow travel	
	12:52:00 PDT	Blow	
	19:52-GMT	Position: 167° / 400 m Dir: West; Behavior: Slow travel	
	12:55:00 PDT	Blow	
	19:55-GMT	Position: 214° / 489 m Dir: West; Behavior: Slow travel	
	12:56:00 PDT	Blow	
	19:56-GMT	Position: 224° / 412 m Dir: West; Behavior: Slow travel	
	12:59:00 PDT	Blow	
	19:59-GMT	Position: 255° / 455 m Dir: West; Behavior: Slow travel	
	13:01:00 PDT	ni	
	20:01-GMT	Position: 271° / 471 m Dir: West; Behavior: Slow travel	
	13:01:00 PDT	Body	
	20:01-GMT	Position: 269° / 471 m Dir: East; Behavior: Slow travel	
		<i>1 pair switched directions</i>	
	13:06:00 PDT	ni	
	20:06-GMT	Position: 274° / 455 m Dir: West; Behavior: Slow travel	
		<i>switched back</i>	
	13:08:00 PDT	Blow	
	20:08-GMT	Position: 189° / 489 m Dir: West; Behavior: Slow travel	
	13:09:00 PDT	Blow	Inside / Inside
	20:09-GMT	Position: 292° / 661 m Dir: West; Behavior: Slow travel	

Apr 28 Total 2 Calves 1
Day 81 of 105

Er Gray whale (northbound)

Sighting Number **04** Poor - 4 *Er* Total 2 — 1 Calf at sighting

Images: 6808 - 6885 (some with Tt)

10:16:00 PDT	Boat / Blow	
17:16-GMT	Position: 102° / 3088 m Dir: West; Behavior: Slow travel	
	<i>Condor on whales rounding Campus Pt - Bottlenose dolphin met pair - calf changed sides - dolphins "all over" Er - whales meandered at Point - hesitated before buoys - headed along Sands</i>	
10:23:00 PDT	Blow	
17:23-GMT	Position: 105° / 412 m Dir: West; Behavior: Slow travel	
	<i>little blow</i>	
10:27:00 PDT	Blow	
17:27-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel	
10:29:00 PDT	Blow	
17:29-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel	
10:38:00 PDT	Blow	
17:38-GMT	Position: 108° / 1331 m Dir: West; Behavior: Slow travel	
10:46:00 PDT	Blow	
17:46-GMT	Position: 117° / 827 m Dir: West; Behavior: Slow travel	
10:50:00 PDT	Blow	
17:50-GMT	Position: 151° / 489 m Dir: West; Behavior: Slow travel	
10:53:00 PDT	Blow	
17:53-GMT	Position: 155° / 356 m Dir: West; Behavior: Slow travel	
10:56:00 PDT	Blow	
17:56-GMT	Position: 224° / 412 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:57:00 PDT	Blow	
	17:57-GMT	Position: 240° / 356 m Dir: West; Behavior: Slow travel	
	10:59:00 PDT	Body	
	17:59-GMT	Position: 252° / 412 m Dir: West; Behavior: Slow travel	
	11:03:00 PDT	Blow	Inside / Inside
	18:03-GMT	Position: 287° / 629 m Dir: West; Behavior: Slow travel	
Apr 29 Day 82 of 105	Total 6 Calves 3	Er Gray whale (northbound)	

Sighting Number	01	Fair - 3	Er Total 2 — 1 Calf at sighting
Images: 7051 - 7125	9:31:00 PDT	ni / Blow	
	16:31-GMT	Position: 104° / 827 m Dir: West; Behavior: Slow travel	
		<i>possible nursing? - many surfaces at Counter Point - calf meandered east before continuing west - calf rolling while meandering - possible feeding in kelp by Isla Vista</i>	
	9:34:00 PDT	Blow	
	16:34-GMT	Position: 110° / 735 m Dir: West; Behavior: Slow travel	
	9:37:00 PDT	Blow	
	16:37-GMT	Position: 125° / 400 m Dir: West; Behavior: Slow travel	
	9:38:00 PDT	Blow	
	16:38-GMT	Position: 124° / 412 m Dir: no direction; Behavior: Slow travel	
		<i>facing east</i>	
	9:39:00 PDT	Blow	
	16:39-GMT	Position: 129° / 388 m Dir: West; Behavior: Slow travel	
		<i>heading west again</i>	
	9:40:00 PDT	Blow	
	16:40-GMT	Position: 224° / 412 m Dir: West; Behavior: Slow travel	
9:41:00 PDT	Blow		
16:41-GMT	Position: 150° / 314 m Dir: West; Behavior: Slow travel		
9:43:00 PDT	Blow		
16:43-GMT	Position: 154° / 253 m Dir: West; Behavior: Slow travel		
	<i>splashing - possible nursing</i>		
9:45:00 PDT	Body		
16:45-GMT	Position: 177° / 280 m Dir: West; Behavior: Slow travel		
9:53:00 PDT	Blow		
16:53-GMT	Position: 279° / 489 m Dir: West; Behavior: Slow travel		
Images: 7051 - 7125	9:54:00 PDT	Blow	Inside / Inside
	16:54-GMT	Position: 281° / 550 m Dir: West; Behavior: Slow travel	

Sighting Number	02	Fair - 3	Er Total 2 — 1 Calf at sighting
Images: 7133 - 7163	10:13:00 PDT	ni / Blow	
	17:13-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
		<i>very close - calf seemed small - very little surfacing at Counter Point - many blows by calf - stuck its head out, but mainly low profile</i>	
	10:18:00 PDT	Blow	
	17:18-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
	10:22:00 PDT	Blow	
	17:22-GMT	Position: 107° / 1922 m Dir: West; Behavior: Slow travel	
10:26:00 PDT	Blow		
17:26-GMT	Position: 106° / 1483 m Dir: West; Behavior: Slow travel		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	10:29:00 PDT	Blow	
	17:29-GMT	Position: 103° / 1208 m Dir: West; Behavior: Slow travel	
	10:36:00 PDT	Blow	
	17:36-GMT	Position: 108° / 883 m Dir: West; Behavior: Slow travel	
	10:41:00 PDT	Blow	
	17:41-GMT	Position: 144° / 412 m Dir: West; Behavior: Slow travel	
	10:43:00 PDT	Blow	
	17:43-GMT	Position: 149° / 412 m Dir: West; Behavior: Slow travel	
	10:45:00 PDT	Body	
	17:45-GMT	Position: 173° / 388 m Dir: West; Behavior: Slow travel	
	10:46:00 PDT	Blow	
	17:46-GMT	Position: 186° / 356 m Dir: West; Behavior: Slow travel	
Images: 7133 - 7163	10:54:00 PDT	Blow	
	17:54-GMT	Position: 284° / 661 m Dir: West; Behavior: Slow travel	
	10:57:00 PDT	Blow	Inside / Inside
	17:57-GMT	Position: 286° / 489 m Dir: West; Behavior: Slow travel	
Sighting Number	03	Fair - 3	Er Total 2 — 1 Calf at sighting
Images: 7167 - 7205	11:07:00 PDT	ni / Blow	
	18:07-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel <i>many rostrum first surface + blows - stayed close to cow - frequent blows in the east but few blows past Counter Point</i>	
	11:10:00 PDT	Blow	
	18:10-GMT	Position: 106° / 2260 m Dir: West; Behavior: Slow travel	
	11:16:00 PDT	Blow	
	18:16-GMT	Position: 109° / m Dir: West; Behavior: Slow travel	
	11:19:00 PDT	Blow	
	18:19-GMT	Position: 109° / 946 m Dir: West; Behavior: Slow travel	
	11:21:00 PDT	Blow	
	18:21-GMT	Position: 148° / 412 m Dir: West; Behavior: Slow travel	
	11:23:00 PDT	Blow	
	18:23-GMT	Position: 109° / 778 m Dir: West; Behavior: Slow travel	
	11:26:00 PDT	Blow	
	18:26-GMT	Position: 114° / 661 m Dir: West; Behavior: Slow travel	
	11:27:00 PDT	Blow	
	18:27-GMT	Position: 118° / 600 m Dir: West; Behavior: Slow travel	
	11:30:00 PDT	Blow	
	18:30-GMT	Position: 136° / 412 m Dir: West; Behavior: Slow travel	
	11:34:00 PDT	Blow	
	18:34-GMT	Position: 189° / 314 m Dir: West; Behavior: Slow travel	
	11:36:00 PDT	Blow	
	18:36-GMT	Position: 221° / 314 m Dir: West; Behavior: Slow travel	
	11:39:00 PDT	Blow	Inside / Inside
	18:39-GMT	Position: 252° / 412 m Dir: West; Behavior: Slow travel	

Apr 30 Total 10 Calves 4
Day 83 of 105

Er Gray whale (northbound)

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	14 Fair - 1	Er Total 2 — 0 Calves at sighting	
Images: 7243 - 7255	11:55:00 PDT	ni / Body	
	18:55-GMT	Position: 160° / 600 m Dir: West; Behavior: Slow travel	
	12:00:00 PDT	Blow	
	19:00-GMT	Position: 206° / 489 m Dir: West; Behavior: Slow travel	
	12:02:00 PDT	Body	
	19:02-GMT	Position: 223° / 489 m Dir: West; Behavior: Slow travel	
	12:04:00 PDT	Body	
	19:04-GMT	Position: 242° / 489 m Dir: West; Behavior: Slow travel	
	12:05:00 PDT	Body	
	19:05-GMT	Position: 253° / 539 m Dir: West; Behavior: Slow travel	
	12:08:00 PDT	Body	
	19:08-GMT	Position: 256° / 600 m Dir: West; Behavior: Slow travel	
	12:11:00 PDT	Body	Inside / nd
	19:11-GMT	Position: 271° / 735 m Dir: West; Behavior: Slow travel	
		<i>did not surface again - likely went inside buoys</i>	
Sighting Number	15 Fair - 0	Er Total 2 — 1 Calf at sighting	
Images: 7256 - 7284	12:45:00 PDT	SD / Body	
	19:45-GMT	Position: 145° / 678 m Dir: West; Behavior: Slow travel	
		<i>like sighting prior (S#14), no blows - first saw disturbance in water at 110 degrees, then again, then surfacing - one whale, likely calf, has large white spot on right side (no image, maybe 7265 - 7267) - saw calf blowhole, no blows, several times - image of both at surface 7262 - 7265</i>	
	12:51:00 PDT	Body	
	19:51-GMT	Position: 209° / 539 m Dir: West; Behavior: Slow travel	
	12:54:00 PDT	Body	
	19:54-GMT	Position: 243° / 600 m Dir: West; Behavior: Slow travel	
	12:55:00 PDT	Body	Inside / nd
	19:55-GMT	Position: 252° / 600 m Dir: West; Behavior: Slow travel	
Sighting Number	16 Fair - 0	Er Total 2 — 1 Calf at sighting	
Images: 7289-7344	14:28:00 PDT	ni / Body	
	21:28-GMT	Position: 115° / 913 m Dir: West; Behavior: Slow travel	
		<i>calf has white spot on right flank - mom surfacing more than calf 0 sighting began with no blows, then started blowing @ + past Counter Pt</i>	
	14:33:00 PDT	Body	
	21:33-GMT	Position: 141° / 539 m Dir: West; Behavior: Slow travel	
		<i>then blow</i>	
	14:37:00 PDT	Body	
	21:37-GMT	Position: 179° / 356 m Dir: West; Behavior: Slow travel	
	14:41:00 PDT	Blow	
	21:41-GMT	Position: 248° / 377 m Dir: West; Behavior: Slow travel	
	14:42:00 PDT	Blow	
	21:42-GMT	Position: 251° / 412 m Dir: West; Behavior: Slow travel	
	14:45:00 PDT	Blow	Inside / Inside
	21:45-GMT	Position: 277° / 661 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	17 Fair - 0	Er Total 2 — 1 Calf at sighting	
Images: 7347-7490	14:45:00 PDT	ni / Body	
	21:45-GMT	Position: 126° / 600 m Dir: West; Behavior: Slow travel	
		<i>no blows - pair very shallow, hanging out in kelp @ Counter Pt - calf swimming around, switching sides as they continued west - swam through some oil - went inside buoys to continue their happy way onto Sands</i>	
	14:47:00 PDT	Body	
	21:47-GMT	Position: 146° / 314 m Dir: West; Behavior: Slow travel	
	14:48:00 PDT	Body	
	21:48-GMT	Position: 150° / 253 m Dir: North; Behavior: Slow travel	
		<i>circling around in kelp</i>	
	14:52:00 PDT	Body	
	21:52-GMT	Position: 144° / 388 m Dir: West; Behavior: Slow travel	
	14:54:00 PDT	Body	
	21:54-GMT	Position: 143° / 280 m Dir: no direction; Behavior: Slow travel • Bubbles seen • Rolling	
		<i>possibly nursing</i>	
	14:57:00 PDT	Body	
	21:57-GMT	Position: 145° / 356 m Dir: North; Behavior: Slow travel	
14:59:00 PDT	Body		
21:59-GMT	Position: 157° / 314 m Dir: West; Behavior: Slow travel		
15:02:00 PDT	Body		
22:02-GMT	Position: 208° / 314 m Dir: West; Behavior: Slow travel		
	<i>through oil</i>		
15:03:00 PDT	Body		
22:03-GMT	Position: 229° / 314 m Dir: West; Behavior: Slow travel		
15:05:00 PDT	Body		
22:05-GMT	Position: 253° / 440 m Dir: West; Behavior: Slow travel		
15:12:00 PDT	Body	Inside / Inside	
22:12-GMT	Position: 302° / 827 m Dir: West; Behavior: Slow travel		
Sighting Number	19 Good - 0	Er Total 2 — 1 Calf at sighting	
Images: 7492-7566	15:36:00 PDT	SD / Body	
	22:36-GMT	Position: 112° / 1020 m Dir: West; Behavior: Slow travel	
		<i>calf lingering behind mama - pair is not very social - mom turned around briefly before buoys, possibly to collect the lingering calf before continuing W inside buoys - looks like they're heading straight on past Sands w/o dwelling (nope) - along Sands for a ways, then toward Ellwood Oil Pier - pair seemed calm, turned around past Point but no hurried movement - no head lifts by calf</i>	
	15:38:00 PDT	Body	
	22:38-GMT	Position: 117° / 696 m Dir: West; Behavior: Slow travel	
	15:41:00 PDT	Body	
	22:41-GMT	Position: 131° / 489 m Dir: West; Behavior: Slow travel	
	15:42:00 PDT	Body	
	22:42-GMT	Position: 145° / 455 m Dir: West; Behavior: Slow travel	
	15:44:00 PDT	Body	
	22:44-GMT	Position: 174° / 412 m Dir: West; Behavior: Slow travel • Fast travel	
	15:45:00 PDT	Body	
22:45-GMT	Position: 192° / 356 m Dir: West; Behavior: Slow travel		
15:47:00 PDT	Blow		
22:47-GMT	Position: 215° / 388 m Dir: West; Behavior: Slow travel		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	15:50:00 PDT	Body	
	22:50-GMT	Position: 248° / 377 m Dir: East; Behavior: Slow travel <i>cow going back for calf</i>	
	15:51:00 PDT	Blow	
	22:51-GMT	Position: 253° / 412 m Dir: East; Behavior: Slow travel	
	15:54:00 PDT	Body	Inside / Inside
	22:54-GMT	Position: 276° / 550 m Dir: West; Behavior: Slow travel	
May 01 Total 10 Calves 5 Day 84 of 105	Er Gray whale (northbound)		
Sighting Number	01	Fair - 0	Er Total 4 — 2 Calves at sighting
Images: 7583-7750	9:05:00 PDT	ni / Blow	
	16:05-GMT	Position: 99° / 3088 m Dir: West; Behavior: Slow travel <i>saw @ Campus Pt - some meandering there - very slow + easy travel - pairs mostly together - some separation just east of Counter Pt - stand-up paddlers saw whales and positioned themselves in path at Point - whale swam under them and down a pretty long time - whales seemed aware they were there - inside buoy - in surf at Sands - head lifts and rolling in waves</i>	
	9:11:00 PDT	Blow	
	16:11-GMT	Position: 99° / 2260 m Dir: West; Behavior: Slow travel <i>multiple blows, bodies visible - animals some distance from each other N->S</i>	
	9:15:00 PDT	Blow	
	16:15-GMT	Position: 102° / 1922 m Dir: West; Behavior: Slow travel <i>saw all 3 bodies, possibly 4 animals?</i>	
	9:18:00 PDT	Blow	
	16:18-GMT	Position: 104° / 1674 m Dir: West; Behavior: Slow travel	
	9:23:00 PDT	ni	
	16:23-GMT	Position: 107° / 1483 m Dir: West; Behavior: Slow travel	
	9:27:00 PDT	Blow	
	16:27-GMT	Position: 108° / 1331 m Dir: West; Behavior: Slow travel <i>seem to be playful</i>	
	9:32:00 PDT	Blow	
	16:32-GMT	Position: 110° / 913 m Dir: West; Behavior: Slow travel	
	9:35:00 PDT	Blow	
	16:35-GMT	Position: 113° / 600 m Dir: West; Behavior: Slow travel	
	9:38:00 PDT	Blow	
	16:38-GMT	Position: 127° / 489 m Dir: West; Behavior: Slow travel	
	9:41:00 PDT	Body	
	16:41-GMT	Position: 154° / 412 m Dir: West; Behavior: Slow travel <i>confirmed 2 pair</i>	
	9:45:00 PDT	Body	
	16:45-GMT	Position: 193° / 296 m Dir: West; Behavior: Slow travel	
	9:46:00 PDT	Body	
	16:46-GMT	Position: 241° / 334 m Dir: West; Behavior: Slow travel	
	9:47:00 PDT	Body	
	16:47-GMT	Position: 249° / 334 m Dir: West; Behavior: Slow travel <i>all 4 animals together</i>	
Images: 7583-7750	9:51:00 PDT	Body	Inside / Inside
	16:51-GMT	Position: 282° / 539 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	10 Fair - 0	Er Total 2 — 1 Calf at sighting	
	11:45:00 PDT	ni / Body	
	18:45-GMT	Position: 169° / 489 m Dir: West; Behavior: Slow travel	
	11:50:00 PDT	Body	
	18:50-GMT	Position: 211° / 366 m Dir: West; Behavior: Slow travel	
	11:51:00 PDT	Body	
	18:51-GMT	Position: 226° / 356 m Dir: West; Behavior: Slow travel	
	11:53:00 PDT	Body	
	18:53-GMT	Position: 253° / 377 m Dir: West; Behavior: Slow travel	
	11:58:00 PDT	Body	
	18:58-GMT	Position: 286° / 735 m Dir: West; Behavior: Slow travel	
			Inside / Inside
Sighting Number	11 Fair - 0	Er Total 2 — 1 Calf at sighting	
	11:56:00 PDT	ni / Body	
	18:56-GMT	Position: 107° / 1331 m Dir: West; Behavior: Slow travel	
	12:00:00 PDT	Body	
	19:00-GMT	Position: 110° / 1106 m Dir: West; Behavior: Slow travel	
	12:02:00 PDT	Body	
	19:02-GMT	Position: 113° / 946 m Dir: West; Behavior: Slow travel	
		<i>little blow after cow surface</i>	
	12:06:00 PDT	Body	
	19:06-GMT	Position: 114° / 778 m Dir: West; Behavior: Slow travel	
	12:09:00 PDT	Body	
	19:09-GMT	Position: 122° / 661 m Dir: West; Behavior: Slow travel	
	12:12:00 PDT	Body	
	19:12-GMT	Position: 126° / 489 m Dir: West; Behavior: Slow travel	
	12:15:00 PDT	Body	
	19:15-GMT	Position: 142° / 440 m Dir: no direction; Behavior: Slow travel	
	12:19:00 PDT	Body	
	19:19-GMT	Position: 145° / 426 m Dir: West; Behavior: Slow travel	
	12:20:00 PDT	Body	
	19:20-GMT	Position: 151° / 440 m Dir: West; Behavior: Slow travel	
	12:22:00 PDT	Body	
	19:22-GMT	Position: 168° / 426 m Dir: West; Behavior: Slow travel	
	12:24:00 PDT	Body	
	19:24-GMT	Position: 187° / 455 m Dir: West; Behavior: Slow travel	
	12:27:00 PDT	Body	
	19:27-GMT	Position: 210° / 338 m Dir: West; Behavior: Slow travel	
	12:30:00 PDT	Body	
	19:30-GMT	Position: 246° / 528 m Dir: West; Behavior: Slow travel	
		<i>calf almost fluked</i>	
	12:38:00 PDT	Body	
	19:38-GMT	Position: 293° / 735 m Dir: West; Behavior: Slow travel	
			Inside / Inside
		<i>off Sands</i>	

Images: 7794-7818

Images: boat images: 7888-7889, whales: 7822-7897

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	25 Good - 2	Er Total 2 — 1 Calf at sighting	
Images: 7947-8014			
	16:31:00 PDT	ni / Blow	
	23:31-GMT	Position: 100° / 2749 m Dir: West; Behavior: Slow travel <i>very slow + easy - lots of surface time - head lift by calf</i>	
	16:35:00 PDT	Blow	
	23:35-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
	16:38:00 PDT	Blow	
	23:38-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel	
	16:40:00 PDT	Blow	
	23:40-GMT	Position: 103° / 1922 m Dir: West; Behavior: Slow travel	
	16:43:00 PDT	Blow	
	23:43-GMT	Position: 104° / 1674 m Dir: West; Behavior: Slow travel	
	16:45:00 PDT	Blow	
	23:45-GMT	Position: 107° / 1674 m Dir: West; Behavior: Slow travel	
	16:46:00 PDT	Blow	
	23:46-GMT	Position: 108° / 1403 m Dir: West; Behavior: Slow travel	
	16:50:00 PDT	Blow	
	23:50-GMT	Position: 109° / 1208 m Dir: West; Behavior: Slow travel	
	16:53:00 PDT	Blow	
	23:53-GMT	Position: 110° / 883 m Dir: West; Behavior: Slow travel	
	16:56:00 PDT	Blow	
	23:56-GMT	Position: 115° / 778 m Dir: West; Behavior: Slow travel	
	16:58:00 PDT	Blow	
	23:58-GMT	Position: 121° / 600 m Dir: West; Behavior: Slow travel	
	17:00:00 PDT	Blow	
	0:00; 5/2/2011-GMT	Position: 133° / 412 m Dir: West; Behavior: Slow travel	
	17:03:00 PDT	Blow	
	0:03; 5/2/2011-GMT	Position: 163° / 356 m Dir: West; Behavior: Slow travel	
	17:05:00 PDT	Blow	
	0:05; 5/2/2011-GMT	Position: 196° / 322 m Dir: West; Behavior: Slow travel	
	17:06:00 PDT	Blow	
	0:06; 5/2/2011-GMT	Position: 214° / 314 m Dir: West; Behavior: Slow travel	
	17:08:00 PDT	Blow	
	0:08; 5/2/2011-GMT	Position: 241° / 388 m Dir: West; Behavior: Slow travel	
	17:10:00 PDT	Blow	
	0:10; 5/2/2011-GMT	Position: 245° / m Dir: West; Behavior: Slow travel	
	17:11:00 PDT	Blow	
	0:11; 5/2/2011-GMT	Position: 262° / 489 m Dir: West; Behavior: Slow travel	
	17:13:00 PDT	Blow	
	0:13; 5/2/2011-GMT	Position: 265° / 600 m Dir: West; Behavior: Slow travel	
	17:14:00 PDT	Blow	
	0:14; 5/2/2011-GMT	Position: 273° / 629 m Dir: West; Behavior: Slow travel	
	17:15:00 PDT	Blow	
	0:15; 5/2/2011-GMT	Position: 282° / 778 m Dir: West; Behavior: Slow travel	
	17:16:00 PDT	Blow	Inside / Inside
	0:16; 5/2/2011-GMT	Position: 287° / 827 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
May 02 Day 85 of 105	Total 12 Calves 6	Er Gray whale (northbound)	
Sighting Number	11	Good - 1	Er Total 2 — 1 Calf at sighting
	13:10:00 PDT	ni / Breach	
	20:10-GMT	Position: 143° / 3088 m Dir: West; Behavior: Slow travel • Breach	
	13:42:00 PDT	Body	
	20:42-GMT	Position: 208° / 913 m Dir: West; Behavior: Slow travel	
	13:47:00 PDT	Body	
	20:47-GMT	Position: 235° / 827 m Dir: West; Behavior: Slow travel	
	13:48:00 PDT	Body	
	20:48-GMT	Position: 246° / 778 m Dir: West; Behavior: Slow travel	
	13:50:00 PDT	Body	Inside / Outside
	20:50-GMT	Position: 258° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	12	Good - 1	Er Total 2 — 1 Calf at sighting
	13:20:00 PDT	ni / Blow	
	20:20-GMT	Position: 144° / 629 m Dir: West; Behavior: Slow travel	
	13:24:00 PDT	Body	
	20:24-GMT	Position: 198° / 489 m Dir: West; Behavior: Slow travel	
	13:25:00 PDT	Blow	
	20:25-GMT	Position: 218° / 471 m Dir: West; Behavior: Slow travel	
	13:26:00 PDT	Blow	
	20:26-GMT	Position: 234° / 528 m Dir: West; Behavior: Slow travel	
	13:28:00 PDT	Body	
	20:28-GMT	Position: 252° / 600 m Dir: West; Behavior: Slow travel	
	13:29:00 PDT	Blow	
	20:29-GMT	Position: 267° / 827 m Dir: West; Behavior: Slow travel	
	13:33:00 PDT	Body	
	20:33-GMT	Position: 288° / 946 m Dir: West; Behavior: Slow travel	
	13:33:00 PDT	Blow	Inside / Inside
	20:33-GMT	Position: 291° / 883 m Dir: West; Behavior: Slow travel	
Sighting Number	14	Good - 1	Er Total 2 — 1 Calf at sighting
	13:37:00 PDT	ni / Blow	
	20:37-GMT	Position: 155° / 574 m Dir: West; Behavior: Slow travel	
	<i>CALF SHEET FOR S#11, S#12, S#13 - 3 groups apart but not really - further offshore may have been the breaching whale @ 1105 back towards SB, seen through scope - breached @ 129/.25 - white attempting to track S#11, saw S#12 - came through pretty fast - calf head popped up - to buoys, then turned right traveling inside - S#14 sighted about that time - tracked parallel to S#11 further offshore following S#12 - S#14 turned around before buoys, then around again, went inside buoys - #12 + #14 then disappeared</i>		
	13:39:00 PDT	Blow	
	20:39-GMT	Position: 160° / 388 m Dir: West; Behavior: Slow travel	
	13:41:00 PDT	Blow	
	20:41-GMT	Position: 198° / 356 m Dir: West; Behavior: Slow travel	
	13:44:00 PDT	Blow	
	20:44-GMT	Position: 225° / 356 m Dir: West; Behavior: Slow travel	
	13:44:00 PDT	Body	
	20:44-GMT	Position: 229° / 314 m Dir: West; Behavior: Slow travel	

Images: #12: 8088-8106 #11+14: 8110-8149

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	13:46:00 PDT	Blow	
	20:46-GMT	Position: 241° / 412 m Dir: West; Behavior: Slow travel	
	13:49:00 PDT	Blow	
	20:49-GMT	Position: 251° / 883 m Dir: West; Behavior: Slow travel	
	13:51:00 PDT	Blow	Inside / Inside
	20:51-GMT	Position: 265° / 600 m Dir: West; Behavior: Slow travel	
Sighting Number	18 Good - 2	Er Total 2 — 1 Calf at sighting	
Images: #18: 8154-8207 #19: 8209-8248	14:57:00 PDT	ni / Blow	
	21:57-GMT	Position: 106° / 1106 m Dir: West; Behavior: Slow travel <i>big blow/little puff #19 - animals in kelp #19 - along right (shore) side/(ocean) side #19 - mini breach both @ 96 degrees cow - head #18 - flukes #19 - #19 took longer to come closer but both #18 + #19 would come up simultaneously as far as tracking goes - Ts from west intersected with #19</i>	
	14:59:00 PDT	Blow	
	21:59-GMT	Position: 108° / 913 m Dir: West; Behavior: Slow travel • Breach	
	15:05:00 PDT	Blow	
	22:05-GMT	Position: 125° / m Dir: West; Behavior: Slow travel	
	15:09:00 PDT	Blow	
	22:09-GMT	Position: 147° / 489 m Dir: West; Behavior: Slow travel	
	15:10:00 PDT	Body	
	22:10-GMT	Position: 153° / 412 m Dir: West; Behavior: Slow travel	
	15:13:00 PDT	Body	
	22:13-GMT	Position: 177° / 330 m Dir: West; Behavior: Slow travel	
	15:15:00 PDT	Blow	
	22:15-GMT	Position: 210° / 287 m Dir: West; Behavior: Slow travel	
	15:18:00 PDT	Blow	
	22:18-GMT	Position: 242° / 338 m Dir: West; Behavior: Slow travel	
	15:19:00 PDT	Body	
	22:19-GMT	Position: 252° / 412 m Dir: West; Behavior: Slow travel	
	15:22:00 PDT	Blow	
	22:22-GMT	Position: 269° / 489 m Dir: West; Behavior: Slow travel • Fluke	
	15:23:00 PDT	Blow	
	22:23-GMT	Position: 277° / 539 m Dir: West; Behavior: Slow travel	
	15:27:00 PDT	Blow	Inside / Inside
	22:27-GMT	Position: 294° / 696 m Dir: West; Behavior: Slow travel	
Sighting Number	19 Good - 2	Er Total 2 — 1 Calf at sighting	
	15:02:00 PDT	ni / Blow	
	22:02-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
	15:07:00 PDT	Blow	
	22:07-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
	15:14:00 PDT	Blow	
	22:14-GMT	Position: 109° / 1674 m Dir: West; Behavior: Slow travel <i>blows in same spot</i>	
	15:18:00 PDT	Blow	
	22:18-GMT	Position: 109° / 1483 m Dir: West; Behavior: Slow travel	
	15:20:00 PDT	Blow	
	22:20-GMT	Position: 110° / 1106 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	15:21:00 PDT	Breach	
	22:21-GMT	Position: 110° / 1106 m Dir: West; Behavior: Slow travel • Breach	
	15:25:00 PDT	Blow	
	22:25-GMT	Position: 113° / 883 m Dir: West; Behavior: Slow travel	
	15:31:00 PDT	Blow	
	22:31-GMT	Position: 123° / 600 m Dir: West; Behavior: Slow travel	
	15:33:00 PDT	Blow	
	22:33-GMT	Position: 135° / 489 m Dir: West; Behavior: Slow travel	
	15:33:00 PDT	Body	
	22:33-GMT	Position: 140° / 412 m Dir: West; Behavior: Slow travel	
	15:34:00 PDT	Blow	
	22:34-GMT	Position: 144° / 366 m Dir: West; Behavior: Slow travel <i>inside kelp area</i>	
	15:39:00 PDT	Blow	
	22:39-GMT	Position: 210° / 314 m Dir: West; Behavior: Slow travel	
	15:40:00 PDT	Blow	
	22:40-GMT	Position: 224° / 314 m Dir: West; Behavior: Slow travel	
	15:42:00 PDT	Blow	
	22:42-GMT	Position: 261° / 356 m Dir: West; Behavior: Slow travel <i>calf switched sides</i>	
	15:47:00 PDT	Blow	
	22:47-GMT	Position: 270° / 574 m Dir: West; Behavior: Slow travel	
	15:51:00 PDT	Blow	Inside / Inside
	22:51-GMT	Position: 286° / 778 m Dir: West; Behavior: Slow travel	
Sighting Number	22	Good - 2	Er Total 2 — 1 Calf at sighting
	16:32:00 PDT	Boat / Blow	
	23:32-GMT	Position: 100° / 3088 m Dir: West; Behavior: Slow travel	
	16:44:00 PDT	Blow	
	23:44-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	16:47:00 PDT	Blow	
	23:47-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
	16:49:00 PDT	Blow	
	23:49-GMT	Position: 106° / 1922 m Dir: West; Behavior: Slow travel <i>reading off because of chair/table?</i>	
	16:52:00 PDT	Blow	
	23:52-GMT	Position: 103° / 1674 m Dir: West; Behavior: Slow travel	
	16:55:00 PDT	Blow	
	23:55-GMT	Position: 106° / 1674 m Dir: West; Behavior: Slow travel	
	16:56:00 PDT	Blow	
	23:56-GMT	Position: 107° / 1483 m Dir: West; Behavior: Slow travel	
	17:00:00 PDT	Blow	
	0:00; 5/3/2011-GMT	Position: 107° / 1403 m Dir: West; Behavior: Slow travel	
	17:03:00 PDT	Blow	
	0:03; 5/3/2011-GMT	Position: 109° / 1331 m Dir: West; Behavior: Slow travel	
	17:05:00 PDT	Blow	
	0:05; 5/3/2011-GMT	Position: 109° / 1106 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	17:09:00 PDT	Blow	
	0:09; 5/3/2011-GMT	Position: 111° / 1106 m Dir: West; Behavior: Slow travel	
	17:13:00 PDT	Blow	
	0:13; 5/3/2011-GMT	Position: 118° / 778 m Dir: West; Behavior: Slow travel	
	17:15:00 PDT	Blow	
	0:15; 5/3/2011-GMT	Position: 124° / 600 m Dir: West; Behavior: Slow travel	
	17:18:00 PDT	Body	
	0:18; 5/3/2011-GMT	Position: 140° / 489 m Dir: West; Behavior: Slow travel	
	17:21:00 PDT	Blow	
	0:21; 5/3/2011-GMT	Position: 145° / 489 m Dir: West; Behavior: Slow travel	
	17:25:00 PDT	Body	
	0:25; 5/3/2011-GMT	Position: 174° / 356 m Dir: West; Behavior: Slow travel	
	17:27:00 PDT	Blow	
	0:27; 5/3/2011-GMT	Position: 197° / 356 m Dir: West; Behavior: Slow travel	
	17:29:00 PDT	Blow	
	0:29; 5/3/2011-GMT	Position: 213° / 314 m Dir: West; Behavior: Slow travel <i>blows from mom not as distinct/strong</i>	
	17:31:00 PDT	Blow	
	0:31; 5/3/2011-GMT	Position: 226° / 356 m Dir: West; Behavior: Slow travel	
	17:33:00 PDT	Body	
	0:33; 5/3/2011-GMT	Position: 240° / 447 m Dir: West; Behavior: Slow travel	
	17:34:00 PDT	Blow	
	0:34; 5/3/2011-GMT	Position: 245° / 489 m Dir: West; Behavior: Slow travel <i>traveling much slower than other cow/calf pairs earlier</i>	
	17:35:00 PDT	Blow	
	0:35; 5/3/2011-GMT	Position: 254° / m Dir: West; Behavior: Slow travel	
	17:37:00 PDT	Breach	
	0:37; 5/3/2011-GMT	Position: 256° / 489 m Dir: West; Behavior: Slow travel • Breach <i>calf's head</i>	
	17:39:00 PDT	Blow	
	0:39; 5/3/2011-GMT	Position: 270° / 600 m Dir: West; Behavior: Slow travel	
	17:40:00 PDT	Blow	
	0:40; 5/3/2011-GMT	Position: 274° / 600 m Dir: West; Behavior: Slow travel	
	17:42:00 PDT	Blow	Inside / Inside
	0:42; 5/3/2011-GMT	Position: 282° / 489 m Dir: West; Behavior: Slow travel	

May 03 Total 13 Calves 6
Day 86 of 105

Er Gray whale (northbound)

Sighting Number	01	Fair - 1	Er Total 2 — 1 Calf at sighting
Images: 8355-8358	8:43:00 PDT	ni / Body	
	15:43-GMT	Position: 184° / 440 m Dir: West; Behavior: Slow travel <i>saw east of Point as we were setting up - surrounded by Ts - saw calf 4 times, cow 2 - did not get great looks - can't describe more behavior - dolphins continued along Sands where pairs often go, but we could not track whales</i>	
	8:45:00 PDT	Body	
	15:45-GMT	Position: 225° / 471 m Dir: West; Behavior: Slow travel	
	8:47:00 PDT	Blow	Inside / nd
	15:47-GMT	Position: 243° / 508 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	Time		
Images: 8359-8388	07 Fair - 1	Er Total 2 — 1 Calf at sighting	
	10:47:00 PDT	ni / Body	
	17:47-GMT	Position: 98° / 3088 m Dir: West; Behavior: Slow travel	
		<i>first seen right outside Campus Pt - long down times - spent longtime in Isla Vista kelp</i>	
	11:12:00 PDT	Blow	
	18:12-GMT	Position: 95° / 2260 m Dir: West; Behavior: Slow travel	
	11:16:00 PDT	Blow	
	18:16-GMT	Position: 102° / 1922 m Dir: West; Behavior: Slow travel	
	11:18:00 PDT	Blow	
	18:18-GMT	Position: 105° / 1922 m Dir: West; Behavior: Slow travel	
	11:24:00 PDT	Blow	
	18:24-GMT	Position: 100° / 883 m Dir: West; Behavior: Slow travel	
	11:26:00 PDT	Blow	
	18:26-GMT	Position: 104° / 1106 m Dir: West; Behavior: Slow travel	
	11:28:00 PDT	Blow	
	18:28-GMT	Position: 102° / 913 m Dir: West; Behavior: Slow travel	
	11:29:00 PDT	Blow	
	18:29-GMT	Position: 100° / 883 m Dir: West; Behavior: Slow travel	
	11:30:00 PDT	Body	
	18:30-GMT	Position: 100° / 778 m Dir: West; Behavior: Slow travel	
11:33:00 PDT	Blow		
18:33-GMT	Position: 104° / 778 m Dir: West; Behavior: Slow travel • Spyhop		
	<i>head of calf</i>		
11:37:00 PDT	Body		
18:37-GMT	Position: 124° / 550 m Dir: West; Behavior: Slow travel		
11:39:00 PDT	Blow		
18:39-GMT	Position: 138° / 440 m Dir: West; Behavior: Slow travel		
11:40:00 PDT	Blow		
18:40-GMT	Position: 150° / 366 m Dir: West; Behavior: Slow travel		
11:40:00 PDT	Blow		
18:40-GMT	Position: 159° / 356 m Dir: West; Behavior: Slow travel		
11:41:00 PDT	Blow		
18:41-GMT	Position: 174° / 356 m Dir: West; Behavior: Slow travel		
	<i>calf right behind</i>		
11:45:00 PDT	Blow		
18:45-GMT	Position: 255° / 528 m Dir: West; Behavior: Slow travel		
11:48:00 PDT	Body		
18:48-GMT	Position: 284° / 600 m Dir: West; Behavior: Slow travel		
11:51:00 PDT	Body	Inside / Inside	
18:51-GMT	Position: 300° / 661 m Dir: West; Behavior: Slow travel		
Images: 8405-8428	14 Fair - 1	Er Total 2 — 1 Calf at sighting	
	13:16:00 PDT	SD / Body	
	20:16-GMT	Position: 151° / 489 m Dir: West; Behavior: Slow travel	
	<i>slow - quiet - disturbance in water - calf surfaced later - then cow - some hesitation - blowing, surfacing at Point - inside buoys then off towards Gaviota - not along Sands</i>		
13:17:00 PDT	Blow		
20:17-GMT	Position: 161° / 471 m Dir: West; Behavior: Slow travel		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	13:18:00 PDT	Blow	
	20:18-GMT	Position: 166° / 471 m Dir: West; Behavior: Slow travel	
	13:19:00 PDT	Blow	
	20:19-GMT	Position: 184° / 489 m Dir: West; Behavior: Slow travel	
	13:22:00 PDT	Blow	
	20:22-GMT	Position: 208° / 412 m Dir: West; Behavior: Slow travel <i>back of calf</i>	
	13:22:00 PDT	Body	
	20:22-GMT	Position: 214° / 412 m Dir: West; Behavior: Slow travel <i>saw calf/cow side by side</i>	
	13:25:00 PDT	Body	
	20:25-GMT	Position: 246° / 489 m Dir: West; Behavior: Slow travel	
	13:30:00 PDT	Blow	
	20:30-GMT	Position: 278° / 827 m Dir: West; Behavior: Slow travel	
	13:32:00 PDT	Body	
	20:32-GMT	Position: 289° / 827 m Dir: West; Behavior: Slow travel	
	13:33:00 PDT	Body	Inside / Inside
	20:33-GMT	Position: 291° / 1020 m Dir: West; Behavior: Slow travel	
Sighting Number	16 Fair - 1	Er Total 5 — 2 Calves at sighting	
	13:34:00 PDT	ni / Body	
	20:34-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel <i>incredible 2 pair + 1 mature whale @ Campus Pt for a lone time with Tts all over them - traveled to Point RHIB parallel did not seem to bother them - a long time at Counter Point - rolling head lift - 4 started inside buoy then joined again by single - stayed a very long time off Sands in front of buoys</i>	
	13:36:00 PDT	Blow	
	20:36-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel	
	13:38:00 PDT	Blow	
	20:38-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
	13:41:00 PDT	Blow	
	20:41-GMT	Position: 99° / 2260 m Dir: West; Behavior: Slow travel <i>saw body too</i>	
	13:46:00 PDT	Blow	
	20:46-GMT	Position: 99° / 2260 m Dir: West; Behavior: Slow travel	
	13:48:00 PDT	Blow	
	20:48-GMT	Position: 101° / 2260 m Dir: West; Behavior: Slow travel	
	13:49:00 PDT	Blow	
	20:49-GMT	Position: 101° / 1922 m Dir: West; Behavior: Slow travel	
	13:51:00 PDT	Blow	
	20:51-GMT	Position: 100° / 1922 m Dir: West; Behavior: Slow travel	
	13:52:00 PDT	Blow	
	20:52-GMT	Position: 100° / 1922 m Dir: West; Behavior: Slow travel • Rolling	
	13:53:00 PDT	Blow	
	20:53-GMT	Position: 101° / 1674 m Dir: West; Behavior: Slow travel • Bubbles seen • Rolling <i>head</i>	
	13:57:00 PDT	Body	
	20:57-GMT	Position: 105° / 1483 m Dir: West; Behavior: Slow travel	

Images: with black boats + kayaks +
Tts: 8430-8692 Sands: 8693-8811

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	13:59:00 PDT	Blow	
	20:59-GMT	Position: 102° / 1403 m Dir: West; Behavior: Slow travel	
	14:00:00 PDT	Blow	
	21:00-GMT	Position: 101° / 1403 m Dir: West; Behavior: Slow travel	
	14:02:00 PDT	Body	
	21:02-GMT	Position: 102° / 1403 m Dir: West; Behavior: Slow travel	
		<i>dolphin to left of whale</i>	
	14:02:00 PDT	Blow	
	21:02-GMT	Position: 104° / 1403 m Dir: West; Behavior: Slow travel • Fluke	
	14:03:00 PDT	Blow	
	21:03-GMT	Position: 101° / 1403 m Dir: West; Behavior: Slow travel	
	14:04:00 PDT	Blow	
	21:04-GMT	Position: 101° / 1208 m Dir: West; Behavior: Slow travel	
	14:06:00 PDT	Body	
	21:06-GMT	Position: 98° / 1483 m Dir: West; Behavior: Slow travel • Pec slap	
	14:08:00 PDT	Body	
	21:08-GMT	Position: 105° / 1020 m Dir: West; Behavior: Slow travel	
	14:10:00 PDT	Blow	
	21:10-GMT	Position: 105° / 1106 m Dir: South; Behavior: Slow travel	
	14:12:00 PDT	Body	
	21:12-GMT	Position: 108° / 778 m Dir: South; Behavior: Slow travel	
		<i>near V#17, following</i>	
	14:14:00 PDT	Body	
	21:14-GMT	Position: 115° / 600 m Dir: West; Behavior: Slow travel	
		<i>separating from V#17</i>	
	14:15:00 PDT	Body	
	21:15-GMT	Position: 117° / 447 m Dir: West; Behavior: Slow travel	
		<i>with dolphins</i>	
	14:16:00 PDT	Body	
	21:16-GMT	Position: 125° / 489 m Dir: West; Behavior: Slow travel	
		<i>near kayak V#19</i>	
	14:18:00 PDT	Blow	
	21:18-GMT	Position: 153° / 356 m Dir: West; Behavior: Slow travel	
	14:20:00 PDT	Blow	
	21:20-GMT	Position: 167° / 307 m Dir: West; Behavior: Slow travel	
		<i>one or two still by V#18 around 120/2.7</i>	
	14:24:00 PDT	Body	
	21:24-GMT	Position: 201° / 307 m Dir: West; Behavior: Slow travel	
	14:28:00 PDT	Body	
	21:28-GMT	Position: 254° / 426 m Dir: West; Behavior: Slow travel	
		<i>saw pec</i>	
	14:33:00 PDT	Body	
	21:33-GMT	Position: 280° / 600 m Dir: West; Behavior: Slow travel	
	14:34:00 PDT	Body	
	21:34-GMT	Position: 279° / 629 m Dir: no direction; Behavior: Slow travel	
		<i>hanging around buoys</i>	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	14:34:00 PDT	Body	
	21:34-GMT	Position: 281° / 600 m Dir: no direction; Behavior: Slow travel <i>hanging around buoys</i>	
	14:36:00 PDT	Blow	
	21:36-GMT	Position: 288° / 735 m Dir: West; Behavior: Slow travel	
	14:37:00 PDT	Body	
	21:37-GMT	Position: 284° / 574 m Dir: West; Behavior: Slow travel	
	14:38:00 PDT	Body	
	21:38-GMT	Position: 282° / 600 m Dir: no direction; Behavior: Slow travel <i>enjoying diving near buoys</i>	
	14:41:00 PDT	Body	
	21:41-GMT	Position: 279° / 574 m Dir: East; Behavior: Slow travel	
	14:43:00 PDT	Body	
	21:43-GMT	Position: 278° / 253 m Dir: East; Behavior: Slow travel • Rolling <i>waving pec, head, "sharking"</i>	
	14:45:00 PDT	Body	
	21:45-GMT	Position: 279° / 489 m Dir: no direction; Behavior: Slow travel <i>pec again</i>	
	14:46:00 PDT	Body	
	21:46-GMT	Position: 280° / 489 m Dir: no direction; Behavior: Slow travel	
	14:47:00 PDT	Body	
	21:47-GMT	Position: 280° / 550 m Dir: East; Behavior: Slow travel • Spyhop • Rolling <i>saw calf clearly</i>	
	14:48:00 PDT	ni	
	21:48-GMT	Position: 278° / 550 m Dir: East; Behavior: Slow travel <i>being watched by a surfer</i>	
	14:50:00 PDT	Body	
	21:50-GMT	Position: 275° / 574 m Dir: no direction; Behavior: Slow travel • Rolling <i>"sharking"? - saw pec, fluke</i>	
	14:53:00 PDT	Body	
	21:53-GMT	Position: 274° / 489 m Dir: East; Behavior: Slow travel <i>saw pec</i>	
	14:55:00 PDT	Body	
	21:55-GMT	Position: 275° / 471 m Dir: no direction; Behavior: Slow travel <i>diving</i>	
	14:57:00 PDT	Body	
	21:57-GMT	Position: 274° / 489 m Dir: East; Behavior: Slow travel <i>saw head</i>	
	14:58:00 PDT	Body	
	21:58-GMT	Position: 272° / 528 m Dir: West; Behavior: Slow travel	
	14:59:00 PDT	Blow	
	21:59-GMT	Position: 230° / 600 m Dir: West; Behavior: Slow travel	
	15:01:00 PDT	Body	Inside / Inside
	22:01-GMT	Position: 281° / 735 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
Sighting Number	27 Fair - 3	Er Total 2 — 1 Calf at sighting	
Images: 8812-8842	16:14:00 PDT	ni / Blow	
	23:14-GMT	Position: 122° / 1483 m Dir: West; Behavior: Slow travel <i>came up on us fast - did not seem like cow/calf until past Point (calf on other side) - then the calf head popped up - whales close - rolled, then inside buoys - traveled closer together with calf on shore side toward Gaviota</i>	
	16:15:00 PDT	Blow	
	23:15-GMT	Position: 137° / 528 m Dir: West; Behavior: Slow travel	
	16:17:00 PDT	Blow	
	23:17-GMT	Position: 159° / 489 m Dir: West; Behavior: Slow travel	
	16:22:00 PDT	Blow	
	23:22-GMT	Position: 254° / 471 m Dir: West; Behavior: Slow travel	
	16:24:00 PDT	Body	
	23:24-GMT	Position: 261° / 471 m Dir: West; Behavior: Slow travel	
	16:27:00 PDT	Body	
	23:27-GMT	Position: 260° / 600 m Dir: no direction; Behavior: Slow travel • Breach <i>near buoys</i>	
	16:30:00 PDT	Body	
	23:30-GMT	Position: 286° / 913 m Dir: West; Behavior: Slow travel	
	16:30:00 PDT	Body	Inside / Inside
	23:30-GMT	Position: 289° / 883 m Dir: West; Behavior: Slow travel	

May 04 Total **24** Calves **12**
Day 87 of 105

Er Gray whale (northbound)

Sighting Number	03 Poor - 1	Er Total 2 — 1 Calf at sighting	
Images: 8855-8911	9:26:00 PDT	ni / Body	
	16:26-GMT	Position: 172° / 508 m Dir: West; Behavior: Slow travel <i>saw cow surface east of Point - then calf, several times alone - very slow travel - meandering near buoys - then inside - stop rolling - calf fluke - then in waves at Sands</i>	
	9:28:00 PDT	Body	
	16:28-GMT	Position: 171° / 508 m Dir: West; Behavior: Slow travel	
	9:30:00 PDT	Body	
	16:30-GMT	Position: 184° / 412 m Dir: West; Behavior: Slow travel	
	9:32:00 PDT	Body	
	16:32-GMT	Position: 211° / 455 m Dir: West; Behavior: Slow travel	
	9:33:00 PDT	Body	
	16:33-GMT	Position: 229° / 440 m Dir: West; Behavior: Slow travel	
	9:36:00 PDT	Body	
	16:36-GMT	Position: 253° / 440 m Dir: West; Behavior: Slow travel <i>calf half tail up - nursing?</i>	
	9:40:00 PDT	Body	
	16:40-GMT	Position: 264° / 508 m Dir: West; Behavior: Slow travel	
	9:44:00 PDT	Body	
	16:44-GMT	Position: 283° / 574 m Dir: West; Behavior: Slow travel • Rolling	
	9:47:00 PDT	Body	
	16:47-GMT	Position: 289° / 661 m Dir: West; Behavior: Slow travel <i>in the far surf</i>	
	9:50:00 PDT	Body	Inside / Inside
	16:50-GMT	Position: 294° / 827 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	04 Poor - 1	Er Total 2 — 1 Calf at sighting	
Images: 8917-8952	9:55:00 PDT	ni / Body	
	16:55-GMT	Position: 126° / 883 m Dir: West; Behavior: Slow travel <i>no calf sheet, disappeared before buoys</i>	
	9:57:00 PDT	Body	
	16:57-GMT	Position: 151° / 489 m Dir: West; Behavior: Slow travel	
	10:00:00 PDT	Body	
	17:00-GMT	Position: 179° / 471 m Dir: West; Behavior: Slow travel	
	10:01:00 PDT	Body	
	17:01-GMT	Position: 204° / 426 m Dir: West; Behavior: Slow travel	
	10:03:00 PDT	Body	Inside / nd
	17:03-GMT	Position: 237° / 528 m Dir: West; Behavior: Slow travel	
Sighting Number	05 Poor - 1	Er Total 2 — 1 Calf at sighting	
Images: 8958-8990	10:13:00 PDT	ni / Blow	
	17:13-GMT	Position: 128° / 600 m Dir: West; Behavior: Slow travel <i>very slow (soft) - cow blew - calf "spit" - kept close - did not switch sides</i>	
	10:18:00 PDT	Body	
	17:18-GMT	Position: 172° / 426 m Dir: West; Behavior: Slow travel	
	10:22:00 PDT	Body	
	17:22-GMT	Position: 232° / 455 m Dir: West; Behavior: Slow travel	
	10:24:00 PDT	Body	
	17:24-GMT	Position: 249° / 508 m Dir: West; Behavior: Slow travel	
	10:29:00 PDT	Body	
	17:29-GMT	Position: 283° / 600 m Dir: West; Behavior: Slow travel	
Sighting Number	08 Poor - 1	Er Total 2 — 1 Calf at sighting	
Images: 8991-9043	10:40:00 PDT	ni / Blow	
	17:40-GMT	Position: 118° / 1922 m Dir: West; Behavior: Slow travel • Breach <i>3 breaches</i>	
	10:43:00 PDT	Blow	
	17:43-GMT	Position: 117° / 1674 m Dir: West; Behavior: Slow travel • Breach <i>1 breach - calf</i>	
	10:45:00 PDT	Blow	
	17:45-GMT	Position: 125° / 1483 m Dir: West; Behavior: Slow travel <i>images includes vessels UCSB + Tt + pelicans</i>	
	10:47:00 PDT	Blow	
	17:47-GMT	Position: 125° / 1106 m Dir: West; Behavior: Slow travel	
	10:51:00 PDT	Blow	
	17:51-GMT	Position: 131° / 778 m Dir: West; Behavior: Slow travel	
	10:55:00 PDT	Blow	
	17:55-GMT	Position: 165° / 883 m Dir: West; Behavior: Slow travel	
	10:58:00 PDT	Body	
	17:58-GMT	Position: 197° / 629 m Dir: West; Behavior: Slow travel	
	11:02:00 PDT	Body	
	18:02-GMT	Position: 240° / 574 m Dir: West; Behavior: Slow travel	
	11:06:00 PDT	Body	Inside / nd
	18:06-GMT	Position: 262° / 778 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	13 Fair - 1	Er Total 4 — 2 Calves at sighting	
Images: 9044-9117	11:27:00 PDT	ni / Blow	
	18:27-GMT	Position: 108° / 1674 m Dir: West; Behavior: Slow travel <i>very slow along Isla Vista kelp - 2 pairs traveling parallel - rolling in front of Point - looked like nursing - underwater a long time</i>	
	11:29:00 PDT	Blow	
	18:29-GMT	Position: 109° / 1331 m Dir: West; Behavior: Slow travel	
	11:32:00 PDT	Blow	
	18:32-GMT	Position: 113° / 1020 m Dir: West; Behavior: Slow travel	
	11:35:00 PDT	Blow	
	18:35-GMT	Position: 121° / 661 m Dir: West; Behavior: Slow travel	
	11:37:00 PDT	Body	
	18:37-GMT	Position: 131° / 574 m Dir: West; Behavior: Slow travel	
	11:38:00 PDT	Body	
	18:38-GMT	Position: 141° / 455 m Dir: West; Behavior: Slow travel	
	11:42:00 PDT	Blow	
	18:42-GMT	Position: 168° / 471 m Dir: West; Behavior: Slow travel	
	11:43:00 PDT	Blow	
	18:43-GMT	Position: 200° / 366 m Dir: West; Behavior: Slow travel <i>both cows surfaced</i>	
	11:46:00 PDT	Body	
	18:46-GMT	Position: 253° / 471 m Dir: West; Behavior: Slow travel	
	11:48:00 PDT	Body	
	18:48-GMT	Position: 265° / 508 m Dir: West; Behavior: Slow travel	
	11:50:00 PDT	Body	
	18:50-GMT	Position: 284° / 735 m Dir: West; Behavior: Slow travel	
	11:51:00 PDT	Body	Inside / Inside
	18:51-GMT	Position: 294° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	18 Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: 9122-9254	12:55:00 PDT	ni / Body	
	19:55-GMT	Position: 115° / 1403 m Dir: West; Behavior: Slow travel <i>almost no blows, saw the backs of the whales first - slow travel - calf on the right side - near the buoys the pair slowed won coming closer to shore, this is where the calf also fluked and switched to left side - also a pair of dolphins came near the pair in front of the buoys - very close - gentle - polka-dots - such huge animals, so delicate</i>	
	12:59:00 PDT	Body	
	19:59-GMT	Position: 130° / 600 m Dir: West; Behavior: Slow travel	
	13:01:00 PDT	Body	
	20:01-GMT	Position: 149° / 489 m Dir: West; Behavior: Slow travel	
	13:02:00 PDT	Body	
	20:02-GMT	Position: 167° / 426 m Dir: West; Behavior: Slow travel	
	13:07:00 PDT	Body	
	20:07-GMT	Position: 241° / 426 m Dir: West; Behavior: Slow travel <i>calf on mothers side close to shore</i>	
	13:08:00 PDT	Body	
	20:08-GMT	Position: 246° / 440 m Dir: West; Behavior: Slow travel	
	13:09:00 PDT	Body	
	20:09-GMT	Position: 257° / 377 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	13:10:00 PDT	Body	
	20:10-GMT	Position: 267° / 377 m Dir: West; Behavior: Slow travel	
	13:13:00 PDT	Body	
	20:13-GMT	Position: 271° / 508 m Dir: West; Behavior: Slow travel <i>calf near mother's side</i>	
	13:16:00 PDT	Body	
	20:16-GMT	Position: 276° / 489 m Dir: West; Behavior: Slow travel <i>stopped around buoys</i>	
	13:18:00 PDT	Body	
	20:18-GMT	Position: 271° / 508 m Dir: West; Behavior: Slow travel • Fluke <i>calf fluked</i>	
	13:22:00 PDT	Body	
	20:22-GMT	Position: 284° / 574 m Dir: West; Behavior: Slow travel <i>into kelp area near surf</i>	
	13:26:00 PDT	Body	Inside / Inside
	20:26-GMT	Position: 296° / 1331 m Dir: West; Behavior: Slow travel	
Sighting Number	20	Fair - 1	Er Total 2 — 1 Calf at sighting
Images: 9256-9283		13:59:00 PDT	ni / Body
		20:59-GMT	Position: 119° / 1483 m Dir: West; Behavior: Slow travel <i>calf mostly hidden by the mother swimming on the left side - saw one calf blow which determined that there was a calf - in the buoys did see the calf body - traveled through buoys</i>
		14:02:00 PDT	Body
		21:02-GMT	Position: 124° / 946 m Dir: West; Behavior: Slow travel <i>calf blow</i>
		14:04:00 PDT	Body
		21:04-GMT	Position: 134° / 883 m Dir: West; Behavior: Slow travel
		14:07:00 PDT	Body
		21:07-GMT	Position: 184° / 412 m Dir: West; Behavior: Slow travel
		14:08:00 PDT	Body
		21:08-GMT	Position: 194° / 440 m Dir: West; Behavior: Slow travel
		14:09:00 PDT	Body
		21:09-GMT	Position: 209° / 489 m Dir: West; Behavior: Slow travel
		14:10:00 PDT	Blow
		21:10-GMT	Position: 222° / 489 m Dir: West; Behavior: Slow travel
		14:13:00 PDT	Body
		21:13-GMT	Position: 251° / 913 m Dir: West; Behavior: Slow travel
		14:14:00 PDT	Body
		21:14-GMT	Position: 256° / 778 m Dir: West; Behavior: Slow travel <i>calf on ocean side</i>
		14:16:00 PDT	Body
		21:16-GMT	Position: 271° / 1331 m Dir: West; Behavior: Slow travel
Sighting Number	22	Fair - 1	Er Total 2 — 1 Calf at sighting
Images: 9295-9417		15:59:00 PDT	ni / Blow
		22:59-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel
		16:02:00 PDT	Blow
		23:02-GMT	Position: 104° / 2749 m Dir: West; Behavior: Slow travel

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	16:06:00 PDT 23:06-GMT	Blow Position: 105° / 1922 m Dir: West; Behavior: Slow travel	
	16:08:00 PDT 23:08-GMT	Body Position: 103° / 1922 m Dir: West; Behavior: Slow travel • Spyhop • Rolling	
	16:16:00 PDT 23:16-GMT	Blow Position: 111° / 1483 m Dir: West; Behavior: Slow travel	
	16:18:00 PDT 23:18-GMT	Blow Position: 112° / 1331 m Dir: West; Behavior: Slow travel	
	16:19:00 PDT 23:19-GMT	Blow Position: 115° / 1208 m Dir: West; Behavior: Slow travel	
	16:21:00 PDT 23:21-GMT	Blow Position: 122° / 1922 m Dir: West; Behavior: Slow travel	
	16:24:00 PDT 23:24-GMT	Blow Position: 125° / 600 m Dir: West; Behavior: Slow travel	
	16:26:00 PDT 23:26-GMT	Blow Position: 145° / 489 m Dir: West; Behavior: Slow travel	
	16:28:00 PDT 23:28-GMT	Blow Position: 174° / 426 m Dir: West; Behavior: Slow travel	
	16:29:00 PDT 23:29-GMT	Blow Position: 188° / 366 m Dir: West; Behavior: Slow travel	
	16:31:00 PDT 23:31-GMT	Blow Position: 212° / 356 m Dir: West; Behavior: Slow travel	
	16:32:00 PDT 23:32-GMT	Blow Position: 234° / 455 m Dir: West; Behavior: Slow travel	
	16:34:00 PDT 23:34-GMT	Body Position: 255° / 539 m Dir: West; Behavior: Slow travel	
	16:36:00 PDT 23:36-GMT	Blow Position: 260° / 539 m Dir: West; Behavior: Slow travel <i>switched directions briefly</i>	
	16:37:00 PDT 23:37-GMT	Body Position: 260° / 539 m Dir: West; Behavior: Slow travel	
	16:38:00 PDT 23:38-GMT	Body Position: 261° / 471 m Dir: West; Behavior: Slow travel • Spyhop <i>spy hop</i>	
	16:40:00 PDT 23:40-GMT	Blow Position: 262° / 440 m Dir: West; Behavior: Slow travel • Spyhop	
	16:42:00 PDT 23:42-GMT	Body Position: 262° / 471 m Dir: West; Behavior: Slow travel • Rolling <i>mom rolled and calf spyhopped</i>	
	16:46:00 PDT 23:46-GMT	Blow Position: 282° / 440 m Dir: West; Behavior: Slow travel	Inside / Inside
Sighting Number	24	Fair - 1	Er Total 2 — 1 Calf at sighting
	16:21:00 PDT 23:21-GMT	ni / ni Position: 100° / 2749 m Dir: West; Behavior: Slow travel	
	16:22:00 PDT 23:22-GMT	Blow Position: 103° / 2260 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:24:00 PDT	Blow	
	23:24-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
	16:25:00 PDT	Blow	
	23:25-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel	
	16:30:00 PDT	Blow	
	23:30-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	16:34:00 PDT	Blow	
	23:34-GMT	Position: 105° / 1674 m Dir: West; Behavior: Slow travel	
	16:35:00 PDT	Blow	
	23:35-GMT	Position: 109° / 1674 m Dir: West; Behavior: Slow travel	
	16:39:00 PDT	Blow	ni / ni
	23:39-GMT	Position: 112° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	25 Fair - 1	Er Total 4 — 2 Calves at sighting	
Images: 9421-9507	16:25:00 PDT	ni / Blow	
	23:25-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel	
	16:28:00 PDT	Blow	
	23:28-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	16:29:00 PDT	Blow	
	23:29-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	16:31:00 PDT	Blow	
	23:31-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
	16:35:00 PDT	Blow	
	23:35-GMT	Position: 106° / 1922 m Dir: West; Behavior: Slow travel	
	16:37:00 PDT	Blow	
	23:37-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
	16:38:00 PDT	Blow	
	23:38-GMT	Position: 110° / 1674 m Dir: West; Behavior: Slow travel	
	16:40:00 PDT	Blow	
	23:40-GMT	Position: 112° / 1483 m Dir: West; Behavior: Slow travel	
	16:42:00 PDT	Blow	
	23:42-GMT	Position: 114° / 1106 m Dir: West; Behavior: Slow travel	
		<i>merged with S#24</i>	
	16:43:00 PDT	Blow	
	23:43-GMT	Position: 115° / 1020 m Dir: West; Behavior: Slow travel	
	16:45:00 PDT	Blow	
	23:45-GMT	Position: 122° / 778 m Dir: West; Behavior: Slow travel	
	16:47:00 PDT	Blow	
	23:47-GMT	Position: 126° / 447 m Dir: West; Behavior: Slow travel	
	16:48:00 PDT	Blow	
	23:48-GMT	Position: 134° / 550 m Dir: West; Behavior: Slow travel • Moderate travel	
	16:49:00 PDT	Blow	
	23:49-GMT	Position: 149° / 508 m Dir: West; Behavior: Slow travel • Moderate travel	
	16:50:00 PDT	Blow	
	23:50-GMT	Position: 174° / 412 m Dir: West; Behavior: Slow travel • Moderate travel	
	16:52:00 PDT	Blow	
	23:52-GMT	Position: 207° / 412 m Dir: West; Behavior: Slow travel • Moderate travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	16:52:00 PDT	Blow	
	23:52-GMT	Position: 209° / 314 m Dir: West; Behavior: Slow travel • Moderate travel	
	16:53:00 PDT	Blow	
	23:53-GMT	Position: 232° / 338 m Dir: West; Behavior: Slow travel	
	16:54:00 PDT	Blow	
	23:54-GMT	Position: 242° / 455 m Dir: West; Behavior: Slow travel	
	16:55:00 PDT	Blow	
	23:55-GMT	Position: 254° / 508 m Dir: West; Behavior: Slow travel • Moderate travel	
	16:56:00 PDT	Blow	
	23:56-GMT	Position: 261° / 528 m Dir: West; Behavior: Slow travel	
	16:57:00 PDT	Blow	
	23:57-GMT	Position: 269° / 629 m Dir: West; Behavior: Slow travel	
	16:58:00 PDT	Blow	
	23:58-GMT	Position: 181° / 696 m Dir: West; Behavior: Slow travel	
	17:01:00 PDT	Blow	Inside / Inside
	0:01; 5/5/2011-GMT	Position: 295° / 946 m Dir: West; Behavior: Slow travel • Moderate travel	
May 06 Day 89 of 105	Total 14 Calves 6	Er Gray whale (northbound)	
Sighting Number	01	Poor - 2	Er Total 4 — 2 Calves at sighting
Images: 9520-9548		8:48:00 PDT	ni / Blow
		15:48-GMT	Position: 138° / 314 m Dir: West; Behavior: Slow travel • Rolling <i>rolling in kelp east side of Counter Point in very shallow water - flippers seen - frequent surfaces led us to believe there were more than 1 cow/calf pair - many surfaces without blows</i>
		8:50:00 PDT	Blow
		15:50-GMT	Position: 153° / 258 m Dir: West; Behavior: Slow travel • Rolling
		8:53:00 PDT	Blow
		15:53-GMT	Position: 158° / 314 m Dir: West; Behavior: Slow travel • Rolling
		8:55:00 PDT	Body
		15:55-GMT	Position: 162° / 293 m Dir: West; Behavior: Slow travel
		8:57:00 PDT	Body
		15:57-GMT	Position: 219° / 330 m Dir: West; Behavior: Slow travel
		8:59:00 PDT	Body
		15:59-GMT	Position: 231° / 356 m Dir: West; Behavior: Slow travel
		9:00:00 PDT	Blow
		16:00-GMT	Position: 246° / 356 m Dir: West; Behavior: Slow travel
		9:03:00 PDT	Blow
		16:03-GMT	Position: 276° / 489 m Dir: West; Behavior: Slow travel
		9:04:00 PDT	Blow
		16:04-GMT	Position: 286° / 489 m Dir: West; Behavior: Slow travel
		9:06:00 PDT	Body
		16:06-GMT	Position: 293° / 539 m Dir: West; Behavior: Slow travel
Sighting Number	03	Poor - 2	Er Total 2 — 1 Calf at sighting
Images: 9549-9575		9:44:00 PDT	ni / Blow
		16:44-GMT	Position: 106° / 2749 m Dir: West; Behavior: Slow travel <i>traveled through kelp - frequent surfaces - calf close most of time - a bit of separation before turning inside buoys - then again in surf/kelp at Sands</i>

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	9:49:00 PDT	Blow	
	16:49-GMT	Position: 110° / 1922 m Dir: West; Behavior: Slow travel	
	9:52:00 PDT	Blow	
	16:52-GMT	Position: 112° / 1208 m Dir: West; Behavior: Slow travel	
	9:56:00 PDT	Blow	
	16:56-GMT	Position: 115° / 946 m Dir: West; Behavior: Slow travel	
	9:58:00 PDT	Blow	
	16:58-GMT	Position: 125° / 574 m Dir: West; Behavior: Slow travel	
	10:01:00 PDT	Blow	
	17:01-GMT	Position: 150° / 400 m Dir: West; Behavior: Slow travel	
	10:04:00 PDT	Blow	
	17:04-GMT	Position: 184° / 366 m Dir: West; Behavior: Slow travel	
	10:06:00 PDT	Blow	
	17:06-GMT	Position: 214° / 293 m Dir: West; Behavior: Slow travel	
	10:08:00 PDT	Blow	
	17:08-GMT	Position: 244° / 455 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Body	
	17:11-GMT	Position: 261° / 539 m Dir: West; Behavior: Slow travel	
	10:12:00 PDT	Blow	
	17:12-GMT	Position: 265° / 574 m Dir: West; Behavior: Slow travel	
	10:14:00 PDT	Blow	Inside / Inside
	17:14-GMT	Position: 284° / 735 m Dir: West; Behavior: Slow travel	
Sighting Number	07 Poor - 2	Er Total 4 — 1 Calf at sighting	
	10:38:00 PDT	ni / Blow	
	17:38-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
		<i>2 groups of 2 whales each - possibly more whales but could not determine - many calf surfaces - groups would separate into a lead and following group then rejoin into 1 group multiple times - calf always very close to adult whale</i>	
	10:44:00 PDT	Blow	
	17:44-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	10:45:00 PDT	Blow	
	17:45-GMT	Position: 109° / 2260 m Dir: West; Behavior: Slow travel	
	10:50:00 PDT	Blow	
	17:50-GMT	Position: 110° / 1674 m Dir: West; Behavior: Slow travel	
	10:53:00 PDT	Blow	
	17:53-GMT	Position: 112° / 1208 m Dir: West; Behavior: Slow travel	
	10:55:00 PDT	Blow	
	17:55-GMT	Position: 116° / 883 m Dir: West; Behavior: Slow travel	
	10:58:00 PDT	Blow	
	17:58-GMT	Position: 134° / 600 m Dir: West; Behavior: Slow travel	
	10:59:00 PDT	Blow	
	17:59-GMT	Position: 148° / 528 m Dir: West; Behavior: Slow travel	
	11:01:00 PDT	Blow	
	18:01-GMT	Position: 168° / 455 m Dir: West; Behavior: Slow travel	
	11:02:00 PDT	Blow	
	18:02-GMT	Position: 177° / 455 m Dir: West; Behavior: Slow travel	

Images: 9595-9647

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	11:03:00 PDT	Blow	
	18:03-GMT	Position: 202° / 455 m Dir: West; Behavior: Slow travel	
	11:04:00 PDT	Blow	
	18:04-GMT	Position: 211° / 412 m Dir: West; Behavior: Slow travel	
	11:06:00 PDT	Blow	
	18:06-GMT	Position: 227° / 388 m Dir: West; Behavior: Slow travel	
	11:09:00 PDT	Blow	
	18:09-GMT	Position: 250° / 489 m Dir: West; Behavior: Slow travel	
	11:10:00 PDT	Blow	
	18:10-GMT	Position: 269° / 528 m Dir: West; Behavior: Slow travel	
	11:11:00 PDT	Blow	
	18:11-GMT	Position: 281° / 629 m Dir: West; Behavior: Slow travel	
	11:13:00 PDT	Blow	
	18:13-GMT	Position: 291° / 778 m Dir: West; Behavior: Slow travel	
	11:15:00 PDT	Blow	
	18:15-GMT	Position: 294° / 1020 m Dir: West; Behavior: Slow travel	
	11:17:00 PDT	Blow	Inside / Inside
	18:17-GMT	Position: 299° / 1483 m Dir: West; Behavior: Slow travel	
Sighting Number	12	Poor - 0	Er Total 2 — 1 Calf at sighting
	14:38:00 PDT	ni / Blow	
	21:38-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
			<i>calf in close proximity to cow, often slightly ahead on her flank - both moved at a seemingly constant, yet slow pace - there was a definite cow/calf pair, though it seemed there was possibly a 3rd, single whale traveling with them</i>
	14:41:00 PDT	Blow	
	21:41-GMT	Position: 103° / 2749 m Dir: West; Behavior: Slow travel	
	14:44:00 PDT	Blow	
	21:44-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
	14:46:00 PDT	Blow	
	21:46-GMT	Position: 106° / 1922 m Dir: West; Behavior: Slow travel	
	14:49:00 PDT	Blow	
	21:49-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
	14:52:00 PDT	Body	
	21:52-GMT	Position: 110° / 1483 m Dir: West; Behavior: Slow travel	
	14:54:00 PDT	Blow	
	21:54-GMT	Position: 111° / 1208 m Dir: West; Behavior: Slow travel	
	14:56:00 PDT	Blow	
	21:56-GMT	Position: 115° / 827 m Dir: West; Behavior: Slow travel	
	14:59:00 PDT	Body	
	21:59-GMT	Position: 117° / 600 m Dir: West; Behavior: Slow travel	
	15:00:00 PDT	Body	
	22:00-GMT	Position: 138° / 489 m Dir: West; Behavior: Slow travel	
	15:01:00 PDT	Body	
	22:01-GMT	Position: 145° / 426 m Dir: West; Behavior: Slow travel	
	15:02:00 PDT	Body	
	22:02-GMT	Position: 161° / 347 m Dir: West; Behavior: Slow travel	
	15:04:00 PDT	Body	
	22:04-GMT	Position: 202° / 300 m Dir: West; Behavior: Slow travel	

Images: 9654-9695

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	15:07:00 PDT	Body	
	22:07-GMT	Position: 241° / 307 m Dir: West; Behavior: Slow travel	
	15:09:00 PDT	Body	
	22:09-GMT	Position: 259° / 508 m Dir: West; Behavior: Slow travel	
	15:11:00 PDT	Blow	
	22:11-GMT	Position: 279° / 827 m Dir: West; Behavior: Slow travel	
	15:13:00 PDT	Blow	Inside / Inside
	22:13-GMT	Position: 286° / 883 m Dir: West; Behavior: Slow travel	
Sighting Number	14	Poor - 0	Er Total 2 — 1 Calf at sighting
Images: 9698-9739	15:34:00 PDT	ni / Blow	
	22:34-GMT	Position: 119° / 629 m Dir: West; Behavior: Slow travel	
		<i>calf surfaced at same time as cow often - calf kept close to mother and shoreward of her - made frequent surfaces and the cow/calf pair kept moving at a seemingly constant pace</i>	
	15:36:00 PDT	Blow	
	22:36-GMT	Position: 140° / 400 m Dir: West; Behavior: Slow travel	
	15:38:00 PDT	Blow	
	22:38-GMT	Position: 159° / 356 m Dir: West; Behavior: Slow travel	
	15:41:00 PDT	Body	
	22:41-GMT	Position: 225° / 307 m Dir: West; Behavior: Slow travel	
	15:43:00 PDT	Blow	
	22:43-GMT	Position: 253° / 388 m Dir: West; Behavior: Slow travel	
	15:46:00 PDT	Blow	
	22:46-GMT	Position: 273° / 508 m Dir: West; Behavior: Slow travel	
	15:47:00 PDT	Blow	
	22:47-GMT	Position: 277° / 600 m Dir: West; Behavior: Slow travel	
	15:48:00 PDT	Blow	Inside / Inside
	22:48-GMT	Position: 286° / 778 m Dir: West; Behavior: Slow travel	
May 07	Total 10 Calves 4	Er Gray whale (northbound)	
Day 90 of 105			
Sighting Number	01	Fair - 1	Er Total 1 — 0 Calves at sighting
	8:43:00 PDT	ni / Body	
	15:43-GMT	Position: 196° / 539 m Dir: West; Behavior: Slow travel	
		<i>juvenile</i>	
	8:46:00 PDT	Blow	
	15:46-GMT	Position: 128° / 550 m Dir: West; Behavior: Slow travel	
		<i>very likely cow/calf - I saw small whale - Larry saw large V shaped blow - I did not</i>	
	8:49:00 PDT	Other	
	15:49-GMT	Position: 254° / 827 m Dir: West; Behavior: Slow travel	
		<i>foot prints</i>	
	9:17:00 PDT	Blow	Inside / Inside
	16:17-GMT	Position: 294° / 3088 m Dir: West; Behavior: Slow travel	
Sighting Number	03	Fair - 1	Er Total 1 — 0 Calves at sighting
	9:26:00 PDT	ni / Blow	
	16:26-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
		<i>has white with orange</i>	
	9:30:00 PDT	Blow	
	16:30-GMT	Position: 111° / 1403 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	9:51:00 PDT	Blow	
	16:51-GMT	Position: 144° / 827 m Dir: West; Behavior: Slow travel	
	9:56:00 PDT	Blow	
	16:56-GMT	Position: 178° / 528 m Dir: West; Behavior: Slow travel • Fluke	
	10:00:00 PDT	Blow	
	17:00-GMT	Position: 218° / 489 m Dir: West; Behavior: Slow travel • Fluke	
	10:06:00 PDT	Blow	
	17:06-GMT	Position: 214° / 550 m Dir: West; Behavior: Slow travel <i>pointed west but obviously turned around</i>	
	10:10:00 PDT	Blow	Inside / Outside
	17:10-GMT	Position: 254° / 661 m Dir: West; Behavior: Slow travel	

Sighting Number **07** Fair - 1 **Er** Total 2 — 1 Calf at sighting

Images: 9745-9784

10:10:00 PDT	ni / Blow	
17:10-GMT	Position: 104° / 3088 m Dir: West; Behavior: Slow travel <i>boat stayed at a respectful distance - cow was breathing often with calf - traveled inside of buoys with calf staying on mom's flank for the most part</i>	
10:12:00 PDT	Blow	
17:12-GMT	Position: 106° / 2260 m Dir: West; Behavior: Slow travel	
10:16:00 PDT	Blow	
17:16-GMT	Position: 107° / 1674 m Dir: West; Behavior: Slow travel	
10:18:00 PDT	Blow	
17:18-GMT	Position: 106° / 1483 m Dir: West; Behavior: Slow travel	
10:20:00 PDT	Body	
17:20-GMT	Position: 107° / 1331 m Dir: West; Behavior: Slow travel	
10:21:00 PDT	Blow	
17:21-GMT	Position: 108° / 1331 m Dir: West; Behavior: Slow travel	
10:26:00 PDT	Blow	
17:26-GMT	Position: 128° / 550 m Dir: West; Behavior: Slow travel	
10:30:00 PDT	Blow	
17:30-GMT	Position: 154° / 440 m Dir: West; Behavior: Slow travel	
10:31:00 PDT	Blow	
17:31-GMT	Position: 171° / 356 m Dir: West; Behavior: Slow travel	
10:32:00 PDT	Blow	
17:32-GMT	Position: 187° / 338 m Dir: West; Behavior: Slow travel	
10:33:00 PDT	Body	
17:33-GMT	Position: 221° / 388 m Dir: West; Behavior: Slow travel	
10:34:00 PDT	Blow	
17:34-GMT	Position: 227° / 400 m Dir: West; Behavior: Slow travel	
10:36:00 PDT	Blow	
17:36-GMT	Position: 254° / 455 m Dir: West; Behavior: Slow travel	
10:36:00 PDT	Blow	
17:36-GMT	Position: 262° / 528 m Dir: West; Behavior: Slow travel	
10:38:00 PDT	Blow	
17:38-GMT	Position: 270° / 600 m Dir: West; Behavior: Slow travel	
10:41:00 PDT	Blow	
17:41-GMT	Position: 292° / 827 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:42:00 PDT	Blow	Inside / Inside
	17:42-GMT	Position: 294° / 827 m Dir: West; Behavior: Slow travel	
Sighting Number	08 Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: 9785-9845	10:48:00 PDT	ni / Breach	
	17:48-GMT	Position: 103° / 3528 m Dir: West; Behavior: Slow travel	
		<i>great show near Campus Pt - lots of breaching - mom and calf breached at the same time once - didn't surface again when passing buoys - often surfaced without blowing</i>	
	10:50:00 PDT	Blow	
	17:50-GMT	Position: 104° / 3528 m Dir: West; Behavior: Slow travel	
	10:54:00 PDT	Blow	
	17:54-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	11:03:00 PDT	Body	
	18:03-GMT	Position: 107° / 1483 m Dir: West; Behavior: Slow travel	
	11:05:00 PDT	Body	
	18:05-GMT	Position: 109° / 1403 m Dir: West; Behavior: Slow travel	
	11:09:00 PDT	ni	
	18:09-GMT	Position: 120° / 696 m Dir: West; Behavior: Slow travel	
	11:13:00 PDT	Blow	
	18:13-GMT	Position: 152° / 447 m Dir: West; Behavior: Slow travel	
	11:15:00 PDT	Body	
	18:15-GMT	Position: 154° / 412 m Dir: West; Behavior: Slow travel	
	11:18:00 PDT	Body	
	18:18-GMT	Position: 172° / 489 m Dir: West; Behavior: Slow travel	
	11:20:00 PDT	Blow	
	18:20-GMT	Position: 197° / 388 m Dir: West; Behavior: Slow travel	
	11:21:00 PDT	Body	
	18:21-GMT	Position: 211° / 366 m Dir: West; Behavior: Slow travel	
	11:24:00 PDT	Body	Inside / nd
	18:24-GMT	Position: 249° / 489 m Dir: West; Behavior: Slow travel	
Sighting Number	13 Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: 9853-9862	12:24:00 PDT	ni / Blow	
	19:24-GMT	Position: 108° / 2749 m Dir: West; Behavior: Slow travel	
		<i>boat traveled towards whales path and stopped when they saw whales surface in front of them - they surfaced oceanside to boat (S#14) - traveled inside buoys - no playing, just traveled slowly</i>	
	12:26:00 PDT	Blow	
	19:26-GMT	Position: 113° / 1922 m Dir: West; Behavior: Slow travel	
	12:27:00 PDT	Blow	
	19:27-GMT	Position: 114° / 1922 m Dir: West; Behavior: Slow travel	
	12:28:00 PDT	Blow	
	19:28-GMT	Position: 115° / 1674 m Dir: West; Behavior: Slow travel	
	12:32:00 PDT	Blow	
	19:32-GMT	Position: 124° / 1020 m Dir: West; Behavior: Slow travel	
	12:33:00 PDT	Blow	
	19:33-GMT	Position: 128° / 946 m Dir: West; Behavior: Slow travel	
	12:34:00 PDT	Blow	
	19:34-GMT	Position: 135° / 778 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	12:38:00 PDT	Body	
	19:38-GMT	Position: 182° / 489 m Dir: West; Behavior: Slow travel	
	12:43:00 PDT	Blow	
	19:43-GMT	Position: 257° / 528 m Dir: West; Behavior: Slow travel	
	12:44:00 PDT	Blow	
	19:44-GMT	Position: 262° / 600 m Dir: West; Behavior: Slow travel	
	12:45:00 PDT	Blow	
	19:45-GMT	Position: 272° / 735 m Dir: West; Behavior: Slow travel	
	12:48:00 PDT	Blow	Inside / Inside
	19:48-GMT	Position: 289° / 946 m Dir: West; Behavior: Slow travel	
Sighting Number	23	Fair - 3	Er Total 2 — 1 Calf at sighting
Images: 9871-9958	16:48:00 PDT	ni / Blow	
	23:48-GMT	Position: 98° / 2749 m Dir: West; Behavior: Slow travel	
		<i>pair approached COP kelp slowly - upon arriving @ Counter Pt, saw calf fluke frequently (nursing?) - saw a couple bubble blasts - progress stopped temporarily as pair weaved in and out of kelp - calf wearing polka dots - pair then continued onwards, in glare, inside buoys, off effort</i>	
	16:51:00 PDT	Blow	
	23:51-GMT	Position: 100° / 2260 m Dir: West; Behavior: Slow travel	
	16:56:00 PDT	Blow	
	23:56-GMT	Position: 100° / 2260 m Dir: West; Behavior: Slow travel	
	16:58:00 PDT	Blow	
	23:58-GMT	Position: 103° / 1922 m Dir: West; Behavior: Slow travel	
	17:03:00 PDT	Blow	
	0:03; 5/8/2011-GMT	Position: 103° / 1674 m Dir: West; Behavior: Slow travel	
	17:06:00 PDT	Blow	
	0:06; 5/8/2011-GMT	Position: 101° / 1331 m Dir: West; Behavior: Slow travel	
	17:09:00 PDT	Body	
	0:09; 5/8/2011-GMT	Position: 102° / 1020 m Dir: West; Behavior: Slow travel	
		<i>calf head</i>	
	17:11:00 PDT	Blow	
	0:11; 5/8/2011-GMT	Position: 104° / 946 m Dir: West; Behavior: Slow travel	
	17:12:00 PDT	Blow	
	0:12; 5/8/2011-GMT	Position: 103° / 913 m Dir: West; Behavior: Slow travel • Rolling • Fluke	
		<i>calf fluke</i>	
	17:15:00 PDT	Blow	
	0:15; 5/8/2011-GMT	Position: 114° / 600 m Dir: West; Behavior: Slow travel	
	17:19:00 PDT	Blow	
	0:19; 5/8/2011-GMT	Position: 132° / 455 m Dir: West; Behavior: Slow travel	
		<i>calf wearing polka dots</i>	
	17:20:00 PDT	Blow	
	0:20; 5/8/2011-GMT	Position: 138° / 388 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	17:21:00 PDT	Blow	Inside / Inside
	0:21; 5/8/2011-GMT	Position: 141° / 280 m Dir: West; Behavior: Slow travel • Bubbles seen	
	<i>Off effort sightings: time: 1725 - saw 1 - @127/3.7 - 0 direction - behaviors 1, 7 (possibly nursing)</i>		
	<i>- time 1727 - saw 1 - @140/5 - 0 direction</i>		
	<i>- time 1729 - saw 1 - @139/3.5 - W direction - behavior 1 -</i>		
	<i>- time 1730 - saw 1 - @158/3.7 - W direction - behavior 1 -</i>		
	<i>- time 1733 - saw 1 - @202/4.8 - W direction - behavior 1 -</i>		
	<i>- time 1734 - saw 1 - @233/2.7 - W direction - behavior 1 -</i>		
	<i>- time 1735 - saw 1 - @246/3 - W direction - behavior 1 -</i>		
May 09 Day 92 of 105	Total 6 Calves 3	Er Gray whale (northbound)	
Sighting Number	03	Fair - 4	Er Total 2 — 1 Calf at sighting
<i>Images: 0024-0032</i>	9:37:00 PDT	ni / Blow	
	16:37-GMT	Position: 126° / 1483 m Dir: West; Behavior: Slow travel	
	9:41:00 PDT	Blow	
	16:41-GMT	Position: 141° / 1106 m Dir: West; Behavior: Slow travel	
	9:46:00 PDT	Blow	
	16:46-GMT	Position: 167° / 661 m Dir: West; Behavior: Slow travel	
	9:49:00 PDT	Blow	
	16:49-GMT	Position: 208° / 600 m Dir: West; Behavior: Slow travel	
	9:53:00 PDT	Blow	Inside / nd
	16:53-GMT	Position: 248° / 696 m Dir: West; Behavior: Slow travel	
Sighting Number	04	Fair - 4	Er Total 2 — 1 Calf at sighting
<i>Images: 0038-0062</i>	9:42:00 PDT	ni / Blow	
	16:42-GMT	Position: 111° / 2260 m Dir: West; Behavior: Slow travel	
	9:50:00 PDT	Blow	
	16:50-GMT	Position: 111° / 1674 m Dir: West; Behavior: Slow travel	
	9:56:00 PDT	Blow	
	16:56-GMT	Position: 113° / 1020 m Dir: West; Behavior: Slow travel	
	9:59:00 PDT	Blow	
	16:59-GMT	Position: 113° / 946 m Dir: West; Behavior: Slow travel	
	10:00:00 PDT	Blow	
	17:00-GMT	Position: 114° / 946 m Dir: West; Behavior: Slow travel	
	10:01:00 PDT	Blow	
	17:01-GMT	Position: 115° / 946 m Dir: West; Behavior: Slow travel	
	10:08:00 PDT	Blow	
	17:08-GMT	Position: 136° / 471 m Dir: West; Behavior: Slow travel	
	10:09:00 PDT	Blow	
	17:09-GMT	Position: 152° / 471 m Dir: West; Behavior: Slow travel	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 177° / 388 m Dir: West; Behavior: Slow travel	
	10:14:00 PDT	Blow	
	17:14-GMT	Position: 212° / 388 m Dir: West; Behavior: Slow travel	
	10:17:00 PDT	Blow	
	17:17-GMT	Position: 249° / 426 m Dir: West; Behavior: Slow travel	
	10:20:00 PDT	Blow	
	17:20-GMT	Position: 263° / 574 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:24:00 PDT	Blow	Inside / Inside
	17:24-GMT	Position: 286° / 661 m Dir: West; Behavior: Slow travel	
Sighting Number	05 Fair - 4	Er Total 2 — 1 Calf at sighting	
Images: 0035-0036	9:46:00 PDT	ni / Blow	
	16:46-GMT	Position: 114° / 1483 m Dir: West; Behavior: Slow travel	
	9:51:00 PDT	Blow	
	16:51-GMT	Position: 125° / 1106 m Dir: West; Behavior: Slow travel	
	9:56:00 PDT	Blow	
	16:56-GMT	Position: 149° / 661 m Dir: West; Behavior: Slow travel	
	9:58:00 PDT	Blow	
	16:58-GMT	Position: 167° / 508 m Dir: West; Behavior: Slow travel	
	10:03:00 PDT	Blow	
	17:03-GMT	Position: 217° / 550 m Dir: West; Behavior: Slow travel	
	10:07:00 PDT	Blow	Inside / nd
	17:07-GMT	Position: 262° / 778 m Dir: West; Behavior: Slow travel	
May 10	Total 4 Calves 2	Er Gray whale (northbound)	
Day 93 of 105			
Sighting Number	01 Fair - 3	Er Total 2 — 1 Calf at sighting	
Images: 0067-0085	8:34:00 PDT	ni / Blow	
	15:34-GMT	Position: 198° / 330 m Dir: West; Behavior: Slow travel	
		<i>saw little blow from wave - right off Counter Point - traveled in waves along buoys - inside buoys - further along Sands</i>	
	8:38:00 PDT	Blow	
	15:38-GMT	Position: 246° / 347 m Dir: West; Behavior: Slow travel	
	8:41:00 PDT	Blow	Inside / Inside
	15:41-GMT	Position: 281° / 629 m Dir: West; Behavior: Slow travel	
Sighting Number	05 Fair - 3	Er Total 2 — 1 Calf at sighting	
Images: 0086-0119	9:41:00 PDT	ni / Body	
	16:41-GMT	Position: 107° / 883 m Dir: West; Behavior: Slow travel	
		<i>big blow in kelp east of Point - very slow - calf surfacing more - always on shore side</i>	
	9:45:00 PDT	Blow	
	16:45-GMT	Position: 126° / 489 m Dir: West; Behavior: Slow travel	
	9:46:00 PDT	Body	
	16:46-GMT	Position: 144° / 412 m Dir: West; Behavior: Slow travel	<i>calf</i>
	9:49:00 PDT	Blow	
	16:49-GMT	Position: 164° / 377 m Dir: West; Behavior: Slow travel	
	9:51:00 PDT	Blow	
	16:51-GMT	Position: 192° / 412 m Dir: West; Behavior: Slow travel	<i>very slow movement</i>
	9:53:00 PDT	Blow	
	16:53-GMT	Position: 228° / 455 m Dir: West; Behavior: Slow travel	
	9:54:00 PDT	Body	
16:54-GMT	Position: 234° / 426 m Dir: West; Behavior: Slow travel	<i>calf on right, ahead</i>	
9:55:00 PDT	Body		
16:55-GMT	Position: 247° / 440 m Dir: West; Behavior: Slow travel		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:01:00 PDT	Blow	
	17:01-GMT	Position: 286° / 735 m Dir: West; Behavior: Slow travel	
	10:02:00 PDT	Blow	Inside / Inside
	17:02-GMT	Position: 293° / 883 m Dir: West; Behavior: Slow travel	
May 11 Total 6 Calves 3 Day 94 of 105	Er Gray whale (northbound)		
Sighting Number	05 Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: 0135-0145	9:18:00 PDT	ni / Blow	
	16:18-GMT	Position: 97° / 3088 m Dir: West; Behavior: Slow travel	
	<i>shy calf - didn't see surfacing much at the beginning - began to surface more around 235 - slow and easy - took a long time to get around Campus Pt - then proceeded directly, if slowly, past Counter Pt - surfaced together and sometimes calf first</i>		
	9:21:00 PDT	Blow	
	16:21-GMT	Position: 100° / 2749 m Dir: West; Behavior: Slow travel	
	9:23:00 PDT	Blow	
	16:23-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	9:28:00 PDT	Blow	
	16:28-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
	9:32:00 PDT	Blow	
	16:32-GMT	Position: 104° / 1922 m Dir: West; Behavior: Slow travel	
	9:37:00 PDT	Blow	
	16:37-GMT	Position: 103° / 1331 m Dir: West; Behavior: Slow travel	
	9:40:00 PDT	Blow	
	16:40-GMT	Position: 107° / 1208 m Dir: West; Behavior: Slow travel	
	9:43:00 PDT	Blow	
	16:43-GMT	Position: 109° / 1106 m Dir: West; Behavior: Slow travel	
	<i>calf</i>		
	9:47:00 PDT	Blow	
	16:47-GMT	Position: 124° / 489 m Dir: West; Behavior: Slow travel	
	9:49:00 PDT	Blow	
	16:49-GMT	Position: 145° / 412 m Dir: West; Behavior: Slow travel	
	9:52:00 PDT	Blow	
	16:52-GMT	Position: 185° / 400 m Dir: West; Behavior: Slow travel	
	9:55:00 PDT	Blow	
	16:55-GMT	Position: 229° / 412 m Dir: West; Behavior: Slow travel	
	9:56:00 PDT	Blow	
	16:56-GMT	Position: 249° / 471 m Dir: West; Behavior: Slow travel	
	<i>calf</i>		
	9:57:00 PDT	Blow	
	16:57-GMT	Position: 261° / 574 m Dir: West; Behavior: Slow travel	
	<i>calf surfaced first</i>		
	9:57:00 PDT	Blow	
	16:57-GMT	Position: 271° / 574 m Dir: West; Behavior: Slow travel	
	<i>calf surfaced first</i>		
	9:59:00 PDT	Blow	
	16:59-GMT	Position: 271° / 661 m Dir: West; Behavior: Slow travel	
	10:00:00 PDT	Blow	
	17:00-GMT	Position: 280° / 735 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	10:08:00 PDT	Blow	Inside / Inside
	17:08-GMT	Position: 297° / 1106 m Dir: West; Behavior: Slow travel	
Sighting Number	08 Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: 0147-0197	10:12:00 PDT	ni / Blow	
	17:12-GMT	Position: 100° / 2749 m Dir: West; Behavior: Slow travel	
		<i>turned right just past Campus Pt into kelp - spent a long time in kelp - all the way to Counter Pt in or just outside kelp - close to kelp past Counter Point - some stopping - turned slightly around - close to shore + kelp along Sands - whales very easy to track just beneath surface</i>	
	10:25:00 PDT	Body	
	17:25-GMT	Position: 96° / 2749 m Dir: West; Behavior: Slow travel	
	10:29:00 PDT	Blow	
	17:29-GMT	Position: 97° / 1922 m Dir: West; Behavior: Slow travel	
		<i>calf</i>	
	10:30:00 PDT	Blow	
	17:30-GMT	Position: 100° / 1674 m Dir: West; Behavior: Slow travel	
	10:40:00 PDT	Body	
	17:40-GMT	Position: 102° / 1106 m Dir: West; Behavior: Slow travel	
	10:43:00 PDT	Body	
	17:43-GMT	Position: 103° / 778 m Dir: West; Behavior: Slow travel	
	10:45:00 PDT	Blow	
	17:45-GMT	Position: 105° / 600 m Dir: West; Behavior: Slow travel	
	10:49:00 PDT	Body	
	17:49-GMT	Position: 124° / 412 m Dir: West; Behavior: Slow travel	
	10:50:00 PDT	Blow	
	17:50-GMT	Position: 138° / 412 m Dir: West; Behavior: Slow travel	
		<i>calf</i>	
	10:52:00 PDT	Blow	
	17:52-GMT	Position: 171° / 314 m Dir: West; Behavior: Slow travel	
	10:54:00 PDT	Blow	
	17:54-GMT	Position: 208° / 314 m Dir: West; Behavior: Slow travel	
	10:57:00 PDT	Body	
	17:57-GMT	Position: 229° / 314 m Dir: West; Behavior: Slow travel	
	11:00:00 PDT	Body	
	18:00-GMT	Position: 262° / 400 m Dir: West; Behavior: Slow travel	
		<i>calf surfaced</i>	
	11:02:00 PDT	Blow	
	18:02-GMT	Position: 286° / 629 m Dir: West; Behavior: Slow travel	
		<i>calf blow</i>	
	11:03:00 PDT	Body	Inside / Inside
	18:03-GMT	Position: 291° / 661 m Dir: West; Behavior: Slow travel	
Sighting Number	30 Good - 3	Er Total 2 — 1 Calf at sighting	
	16:52:00 PDT	SD / Blow	
	23:52-GMT	Position: 99° / 3088 m Dir: West; Behavior: Slow travel	
		<i>saw small splash @ Campus Pt</i>	
Images: 0230-0294	16:54:00 PDT	Blow	
	23:54-GMT	Position: 99° / 2260 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:56:00 PDT	Blow	
	23:56-GMT	Position: 102° / 1922 m Dir: West; Behavior: Slow travel	
	16:59:00 PDT	Blow	
	23:59-GMT	Position: 103° / 2260 m Dir: West; Behavior: Slow travel	
	17:02:00 PDT	Blow	
	0:02; 5/12/2011-GMT	Position: 105° / 1674 m Dir: West; Behavior: Slow travel	
	17:05:00 PDT	Blow	ni / ni
	0:05; 5/12/2011-GMT	Position: 105° / 1331 m Dir: West; Behavior: Slow travel	
	<i>OFF EFFORT SIGHTINGS:</i>		
	<i>-time: 1710 - saw: 1 - @99/1.5 - W - behaviors: 1 -</i>		
	<i>-time: 1715 - saw: 1 - @145/3 - W - behaviors: 1 -</i>		
	<i>-time: 1717 - saw: 1 - @180/3.2 - W - behaviors: 1 -</i>		
	<i>-time: 1720 - saw: 1 - @249/2.8 - W - behaviors: 1 -</i>		
	<i>-time: 1722 - saw: 1 - @268/1.7 - W - behaviors: 1 -</i>		

May 12 Total 4 Calves 2
Day 95 of 105

Er Gray whale (northbound)

Sighting Number	07	Good - 1	Er Total 2 — 1 Calf at sighting
Images: 0303-0476	10:33:00 PDT	ni / Other	
	17:33-GMT	Position: 214° / 412 m Dir: West; Behavior: Slow travel • Bubbles seen	
	<i>cue = bubbles - very little blowing until in area of buoys - calf along shore side, switched as direction of whales changed - Counter saw large disturbance @180/2 - we rationalized it was seep + sea lion - 10 minutes later @ 200/3 we saw another huge disturbance, then massive bubble blast so big we thought it might be a seep explosion - then cow surfaced and then calf surfaced - later they surfaced together - slowly made way towards buoys after some back and forth - then more back and forth - more bubbles - saw calf flukes, rolling - did not see whales depart</i>		
	10:35:00 PDT	Body	
	17:35-GMT	Position: 211° / 388 m Dir: West; Behavior: Slow travel	
	10:40:00 PDT	Body	
	17:40-GMT	Position: 243° / 388 m Dir: West; Behavior: Slow travel	
	10:43:00 PDT	Body	
	17:43-GMT	Position: 242° / 412 m Dir: West; Behavior: Slow travel	
	10:44:00 PDT	Body	
	17:44-GMT	Position: 240° / 412 m Dir: no direction; Behavior: Slow travel • Bubbles seen • Rolling • <i>calf fluke and rolling</i>	
	10:46:00 PDT	Blow	
	17:46-GMT	Position: 244° / 412 m Dir: West; Behavior: Slow travel	
	10:48:00 PDT	Blow	
	17:48-GMT	Position: 253° / 489 m Dir: West; Behavior: Slow travel • Rolling	
	10:51:00 PDT	Blow	
17:51-GMT	Position: 259° / 440 m Dir: West; Behavior: Slow travel		
10:53:00 PDT	Body		
17:53-GMT	Position: 265° / 661 m Dir: West; Behavior: Slow travel		
11:00:00 PDT	Blow		
18:00-GMT	Position: 275° / 629 m Dir: West; Behavior: Slow travel		
11:06:00 PDT	Blow		
18:06-GMT	Position: 257° / 539 m Dir: West; Behavior: Slow travel	<i>moved east and then turned back</i>	
11:11:00 PDT	Blow		
18:11-GMT	Position: 258° / 539 m Dir: West; Behavior: Slow travel		

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	11:13:00 PDT	Blow	
	18:13-GMT	Position: 254° / 539 m Dir: West; Behavior: Slow travel	
	11:15:00 PDT	Blow	Inside / nd
	18:15-GMT	Position: 264° / 528 m Dir: West; Behavior: Slow travel	
Sighting Number	21	Good - 3	Er Total 2 — 1 Calf at sighting
Images: 0617-0638	16:26:00 PDT	SD / Splash	
	23:26-GMT	Position: 112° / 946 m Dir: West; Behavior: Slow travel <i>saw a splash, then saw the body - very little blowing - not must hesitation - along kelp - inside buoys - calf surfaced and dove with mom - popped up two or three times between cow surface across Point</i>	
	16:30:00 PDT	Body	
	23:30-GMT	Position: 131° / 528 m Dir: West; Behavior: Slow travel	
	16:31:00 PDT	Body	
	23:31-GMT	Position: 139° / 400 m Dir: West; Behavior: Slow travel	
	16:33:00 PDT	Body	
	23:33-GMT	Position: 155° / 338 m Dir: West; Behavior: Slow travel	
	16:34:00 PDT	Body	
	23:34-GMT	Position: 190° / 322 m Dir: West; Behavior: Slow travel	
	16:35:00 PDT	Body	
	23:35-GMT	Position: 225° / 366 m Dir: West; Behavior: Slow travel	
	16:37:00 PDT	Blow	
	23:37-GMT	Position: 253° / 455 m Dir: West; Behavior: Slow travel	
	16:41:00 PDT	Blow	Inside / Inside
	23:41-GMT	Position: 282° / 827 m Dir: West; Behavior: Slow travel	

May 13 Total 6 Calves 3
Day 96 of 105

Er Gray whale (northbound)

Sighting Number	04	Fair - 1	Er Total 2 — 1 Calf at sighting
Images: 0654-0668	11:16:00 PDT	ni / Body	
	18:16-GMT	Position: 131° / 550 m Dir: West; Behavior: Slow travel <i>first seen close to Counter Point (east) - no visible blows, only surfaces - difficult to see because of low contrast - calf very close to cow - calf head came up, the momma's big head - no meandering - close to shore along Sands and away</i>	
	11:18:00 PDT	Body	
	18:18-GMT	Position: 156° / 508 m Dir: West; Behavior: Slow travel	
	11:20:00 PDT	Body	
	18:20-GMT	Position: 176° / 471 m Dir: West; Behavior: Slow travel	
	11:21:00 PDT	Body	
	18:21-GMT	Position: 196° / 412 m Dir: West; Behavior: Slow travel	
	11:23:00 PDT	Body	
	18:23-GMT	Position: 227° / 455 m Dir: West; Behavior: Slow travel	
	11:25:00 PDT	Body	
	18:25-GMT	Position: 254° / 550 m Dir: West; Behavior: Slow travel	
	11:29:00 PDT	Body	
	18:29-GMT	Position: 285° / 883 m Dir: West; Behavior: Slow travel	
	11:33:00 PDT	Body	Inside / Inside
	18:33-GMT	Position: 299° / 1208 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	20 Poor - 2	Er Total 4 — 2 Calves at sighting	
Images: 0687-0728	16:43:00 PDT	ni / Blow	
	23:43-GMT	Position: 99° / 3088 m Dir: West; Behavior: Slow travel	
	16:47:00 PDT	Blow	
	23:47-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel	
	16:48:00 PDT	Blow	
	23:48-GMT	Position: 102° / 3088 m Dir: West; Behavior: Slow travel • Fluke	
	16:52:00 PDT	Blow	
	23:52-GMT	Position: 106° / 2749 m Dir: West; Behavior: Slow travel	
	16:57:00 PDT	Blow	
	23:57-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
	16:59:00 PDT	Blow	
	23:59-GMT	Position: 108° / 1674 m Dir: West; Behavior: Slow travel	
	17:02:00 PDT	Blow	Inside / Outside
	0:02; 5/14/2011-GMT	Position: 109° / 1483 m Dir: West; Behavior: Slow travel	
	<i>OFF EFFORT SIGHTINGS:</i>		
	<i>-time: 1709 - saw: 1 - @98/1.2 - W - behavior: 1 -</i>		
	<i>-time: 1710 - saw: 1 - @99/1.3 - W - behavior: 1 -</i>		
	<i>-time: 1716 - saw: 1 - @128/2.2 - W - behavior: 1 -</i>		
	<i>-time: 1720 - saw: 1 - @199/2.4 - W - behavior: 1 -</i>		
	<i>-time: 1723 - saw: 1 - @234/1.6 - W - behavior: 1 -</i>		
	<i>-time: 1729 - saw: 1 - @244/1.6 - W - behavior: 1 -</i>		

May 14 Total 8 Calves 4
Day 97 of 105

Er Gray whale (northbound)

Sighting Number	Quality-Beaufort	CueTip / Saw	Holly / Buoys
22	Fair - 1	Er Total 2 — 1 Calf at sighting	
Images: 0792-0872	14:36:00 PDT	Other / Body	
	21:36-GMT	Position: 101° / 778 m Dir: West; Behavior: Slow travel	
	<i>cue = dolphins - pair made pretty methodical journey past Counter Pt - started by passing through a large group (>12) of bottlenose dolphins east of Counter Pt - mom has large peach spot just behind blowhole - calf very well-behaved until pair began passing inside the buoys - then calf began rolling - tracked footprints past Counter Point - saw whales in kelp near Tts - whales came out of kelp just before Counter Pt</i>		
	14:40:00 PDT	Body	
	21:40-GMT	Position: 111° / 600 m Dir: West; Behavior: Slow travel	
	14:42:00 PDT	Body	
	21:42-GMT	Position: 126° / 388 m Dir: West; Behavior: Slow travel	
	14:45:00 PDT	Body	
	21:45-GMT	Position: 174° / 314 m Dir: West; Behavior: Slow travel	
	14:46:00 PDT	Blow	
	21:46-GMT	Position: 192° / 300 m Dir: West; Behavior: Slow travel	
	14:48:00 PDT	Body	
	21:48-GMT	Position: 247° / 356 m Dir: West; Behavior: Slow travel	
	14:52:00 PDT	Body	
	21:52-GMT	Position: 278° / 574 m Dir: West; Behavior: Slow travel • Rolling	
	14:54:00 PDT	Body	
	21:54-GMT	Position: 294° / 778 m Dir: West; Behavior: Slow travel	
	<i>with SD#23</i>		
	14:56:00 PDT	Body	Inside / Inside
	21:56-GMT	Position: 300° / 827 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
Sighting Number	25 Fair - 1	<i>Er</i> Total 2 — 1 Calf at sighting	
Images: 0885-0971	15:21:00 PDT	ni / Blow	
	22:21-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
		<i>found pair initially by different blows - calf made lots of little puffs - pair went by some kayakers which endeavored to pursue @ which point the whales had a long downtime and resurfaced far past kayakers - calf started on shore side then switched to ocean side at Counter Pt - pair went through buoys with calf back on shore side</i>	
	15:25:00 PDT	Blow	
	22:25-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	15:27:00 PDT	Blow	
	22:27-GMT	Position: 105° / 2260 m Dir: West; Behavior: Slow travel	
		<i>then long downtime after chase by kayakers</i>	
	15:33:00 PDT	Blow	
	22:33-GMT	Position: 113° / 1403 m Dir: West; Behavior: Slow travel	
	15:36:00 PDT	Blow	
	22:36-GMT	Position: 117° / 946 m Dir: West; Behavior: Slow travel	
		<i>about to me SD#26</i>	
	15:39:00 PDT	Blow	
22:39-GMT	Position: 126° / 661 m Dir: West; Behavior: Slow travel		
15:42:00 PDT	Body		
22:42-GMT	Position: 144° / 489 m Dir: West; Behavior: Slow travel		
	<i>past SD#26</i>		
15:43:00 PDT	Blow		
22:43-GMT	Position: 152° / 253 m Dir: West; Behavior: Slow travel		
15:44:00 PDT	Body		
22:44-GMT	Position: 173° / 377 m Dir: West; Behavior: Slow travel		
	<i>calf switched sides (shore to ocean side)</i>		
15:48:00 PDT	Body		
22:48-GMT	Position: 232° / 455 m Dir: West; Behavior: Slow travel		
15:49:00 PDT	Body		
22:49-GMT	Position: 243° / 508 m Dir: West; Behavior: Slow travel		
15:54:00 PDT	Blow		Inside / Through
22:54-GMT	Position: 271° / 1020 m Dir: West; Behavior: Slow travel		
	<i>in buoys</i>		
Sighting Number	30 Fair - 1	<i>Er</i> Total 2 — 1 Calf at sighting	
	16:18:00 PDT	ni / Blow	
	23:18-GMT	Position: 101° / 3088 m Dir: West; Behavior: Slow travel	
	<i>this pair spent a lot of time under the surface and went by as wind picked up a lot, making them difficult to track - mom has large dorsal white patch + @ one point looked like 2 small whales? - position past Holly not determined - right behind kayakers, which continued S</i>		
	16:22:00 PDT	Blow	
	23:22-GMT	Position: 99° / 3088 m Dir: West; Behavior: Slow travel	
	16:26:00 PDT	Blow	
	23:26-GMT	Position: 98° / 2749 m Dir: West; Behavior: Slow travel	
	<i>kayakers headed back toward whales - went past (N)</i>		
	16:30:00 PDT	Blow	
	23:30-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	16:32:00 PDT	Blow	
	23:32-GMT	Position: 101° / 2260 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort	CueTip / Saw	Holly / Buoys
	16:33:00 PDT	Blow	
	23:33-GMT	Position: 102° / 2260 m Dir: West; Behavior: Slow travel	
	<i>long down time</i>		
	16:52:00 PDT	Blow	
	23:52-GMT	Position: 115° / 1208 m Dir: West; Behavior: Slow travel	
	16:54:00 PDT	Blow	
	23:54-GMT	Position: 116° / 946 m Dir: West; Behavior: Slow travel	
	<i>big white patch on mom</i>		
	16:57:00 PDT	Blow	
	23:57-GMT	Position: 118° / 913 m Dir: West; Behavior: Slow travel	
	17:01:00 PDT	Blow	
	0:01; 5/15/2011-GMT	Position: 145° / 574 m Dir: West; Behavior: Slow travel	
	<i>looked like 2 small whales?</i>		
	17:07:00 PDT	Body	Inside / nd
	0:07; 5/15/2011-GMT	Position: 205° / 539 m Dir: West; Behavior: Slow travel	
Sighting Number	31	Fair - 2	Er Total 2 — 1 Calf at sighting
	16:52:00 PDT	ni / Blow	
	23:52-GMT	Position: 108° / 1922 m Dir: West; Behavior: Slow travel	
	<i>this pair close behind previous pair - also rare surfacing and difficult to track in wind and increasing Beaufort - pair chugged methodically along past Counter Pt and calf was very well behaved - path past Holly also undetermined</i>		
	17:09:00 PDT	Body	
	0:09; 5/15/2011-GMT	Position: 138° / 440 m Dir: West; Behavior: Slow travel	
	17:10:00 PDT	Body	
	0:10; 5/15/2011-GMT	Position: 145° / 366 m Dir: West; Behavior: Slow travel	
	17:12:00 PDT	Blow	
	0:12; 5/15/2011-GMT	Position: 163° / 330 m Dir: West; Behavior: Slow travel	
	17:14:00 PDT	Blow	Inside / nd
	0:14; 5/15/2011-GMT	Position: 180° / 388 m Dir: West; Behavior: Slow travel	
	<i>OFF EFFORT SIGHTING:</i>		
	<i>-time: 1715 - saw: 2 - @190/3.5 - W - behaviors: 1 -</i>		
May 15	Total 6 Calves 3	Er Gray whale (northbound)	
Day 98 of 105			
	Sighting Number	02	Good - 2
			Er Total 4 — 2 Calves at sighting
Images: On 2 GB card	9:27:00 PDT	ni / Blow	
	16:27-GMT	Position: 99° / 3088 m Dir: West; Behavior: Slow travel	
	<i>east, calves together, cows together - once whales reached the buoys - returned to cow/calf pairings - hung out by buoys for awhile</i>		
	9:28:00 PDT	Blow	
	16:28-GMT	Position: 100° / 3088 m Dir: West; Behavior: Slow travel	
	9:33:00 PDT	Blow	
	16:33-GMT	Position: 101° / 2749 m Dir: West; Behavior: Slow travel	
	9:36:00 PDT	Blow	
	16:36-GMT	Position: 102° / 2749 m Dir: West; Behavior: Slow travel	
	9:39:00 PDT	Blow	
	16:39-GMT	Position: 104° / 2260 m Dir: West; Behavior: Slow travel	
	<i>hung out in same area</i>		
	9:48:00 PDT	Blow	
	16:48-GMT	Position: 104° / 1922 m Dir: West; Behavior: Slow travel	

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
	9:52:00 PDT	Blow	
	16:52-GMT	Position: 107° / 2260 m Dir: West; Behavior: Slow travel	
	9:55:00 PDT	Blow	
	16:55-GMT	Position: 109° / 1922 m Dir: West; Behavior: Slow travel <i>beginning to move</i>	
	10:00:00 PDT	Blow	
	17:00-GMT	Position: 113° / 1403 m Dir: West; Behavior: Slow travel	
	10:04:00 PDT	Blow	
	17:04-GMT	Position: 119° / 946 m Dir: West; Behavior: Slow travel <i>calves traveling together</i>	
	10:08:00 PDT	Blow	
	17:08-GMT	Position: 117° / 827 m Dir: West; Behavior: Slow travel	
	10:10:00 PDT	Blow	
	17:10-GMT	Position: 122° / 827 m Dir: West; Behavior: Slow travel • Rolling	
	10:11:00 PDT	Blow	
	17:11-GMT	Position: 122° / 629 m Dir: West; Behavior: Slow travel	
	10:14:00 PDT	Blow	
	17:14-GMT	Position: 136° / 508 m Dir: West; Behavior: Slow travel	
	10:15:00 PDT	Blow	
	17:15-GMT	Position: 147° / 539 m Dir: West; Behavior: Slow travel	
	10:17:00 PDT	Blow	
	17:17-GMT	Position: 159° / 489 m Dir: West; Behavior: Slow travel	
	10:18:00 PDT	Blow	
	17:18-GMT	Position: 168° / 400 m Dir: West; Behavior: Slow travel	
	10:20:00 PDT	Blow	
	17:20-GMT	Position: 193° / 382 m Dir: West; Behavior: Slow travel <i>back to family pairs</i>	
	10:23:00 PDT	Blow	
	17:23-GMT	Position: 235° / 447 m Dir: West; Behavior: Slow travel	
	10:25:00 PDT	Blow	
	17:25-GMT	Position: 254° / 447 m Dir: West; Behavior: Slow travel	
	10:27:00 PDT	Blow	
	17:27-GMT	Position: 261° / 528 m Dir: West; Behavior: Slow travel	
	10:28:00 PDT	Blow	
	17:28-GMT	Position: 262° / 489 m Dir: West; Behavior: Slow travel • Rolling <i>calves playing</i>	
	10:32:00 PDT	Blow	
	17:32-GMT	Position: 276° / 629 m Dir: West; Behavior: Slow travel	
	10:36:00 PDT	Blow	Inside / Inside
	17:36-GMT	Position: 297° / m Dir: West; Behavior: Slow travel	
Sighting Number	06	Fair - 4	Er Total 2 — 1 Calf at sighting
	11:16:00 PDT	ni / Blow	
	18:16-GMT	Position: 280° / 600 m Dir: West; Behavior: Slow travel <i>got by us as we were tracking first pair - then packing in anticipation of rain - whales traveled very close to shore at Sands/Ellwood</i>	
	11:17:00 PDT	Blow	
	18:17-GMT	Position: 287° / 696 m Dir: West; Behavior: Slow travel	

Images: none

2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals	Quality-Beaufort Time	CueTip / Saw	Holly / Buoys
May 16 Total 2 Calves 1 Day 99 of 105		Er Gray whale (northbound)	
Sighting Number	15 Fair - 3	Er Total 2 — 1 Calf at sighting	
	12:22:00 PDT	ni / Body	
	19:22-GMT	Position: 149° / 508 m Dir: West; Behavior: Slow travel	
	12:23:00 PDT	Body	
	19:23-GMT	Position: 162° / 471 m Dir: West; Behavior: Slow travel	
	12:25:00 PDT	Blow	
	19:25-GMT	Position: 191° / 400 m Dir: West; Behavior: Slow travel	
	12:28:00 PDT	Blow	
	19:28-GMT	Position: 233° / 377 m Dir: West; Behavior: Slow travel	
	12:29:00 PDT	Blow	
	19:29-GMT	Position: 253° / 455 m Dir: West; Behavior: Slow travel	
Images: 1250-1279	12:33:00 PDT	Body	
	19:33-GMT	Position: 267° / 508 m Dir: West; Behavior: Slow travel	
		<i>barge in buoys</i>	
May 19 Total 2 Calves 1 Day 102 of		Er Gray whale (northbound)	
Sighting Number	02 Fair - 3	Er Total 2 — 1 Calf at sighting	
Images: 1365-1390	9:14:00 PDT	ni / Body	
	16:14-GMT	Position: 109° / 1331 m Dir: West; Behavior: Slow travel	
		<i>appeared in kelp inside Campus Pt - traveled along kelp - stopping - meandering - both heads popped up - calves a few times - after Counter Pt, no surfacing found just outside of waves at Sands towards Ellwood - maybe nursing - many "footprints" not moving</i>	
	9:16:00 PDT	Blow	
	16:16-GMT	Position: 109° / 946 m Dir: West; Behavior: Slow travel	
	9:20:00 PDT	Blow	
	16:20-GMT	Position: 112° / 678 m Dir: West; Behavior: Slow travel	
	9:25:00 PDT	Body	
	16:25-GMT	Position: 140° / 455 m Dir: West; Behavior: Slow travel	
	9:29:00 PDT	Body	
	16:29-GMT	Position: 179° / 388 m Dir: West; Behavior: Slow travel	
	9:30:00 PDT	Blow	
	16:30-GMT	Position: 186° / 366 m Dir: West; Behavior: Slow travel	
	9:43:00 PDT	Blow	Inside / Inside
	16:43-GMT	Position: 306° / 946 m Dir: West; Behavior: Slow travel	