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

**Total:** 677  
**Calves:** 109  
**Number of Sightings:** 293

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality</th>
<th>Beaufort</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Feb 11</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day 5 of 105</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Good</td>
<td>0</td>
<td>Er Total 1 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td>12:35:00 PST</td>
<td></td>
<td></td>
<td>ni / Blow</td>
<td></td>
</tr>
<tr>
<td>20:35 GMT</td>
<td></td>
<td></td>
<td>Position: 162˚ / 3088 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:43:00 PST</td>
<td></td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:43 GMT</td>
<td></td>
<td></td>
<td>Position: 173˚ / 3088 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:45:00 PST</td>
<td></td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:45 GMT</td>
<td></td>
<td></td>
<td>Position: 177˚ / 3088 m</td>
<td>Dir: West; Behavior: Slow travel ● Fluke</td>
</tr>
<tr>
<td>12:51:00 PST</td>
<td></td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:51 GMT</td>
<td></td>
<td></td>
<td>Position: 186˚ / 3088 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>13:03:00 PST</td>
<td></td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:03 GMT</td>
<td></td>
<td></td>
<td>Position: 206˚ / 3088 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>13:14:00 PST</td>
<td></td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:14 GMT</td>
<td></td>
<td></td>
<td>Position: 214˚ / 3528 m</td>
<td>Dir: West; Behavior: Slow travel ● Fluke</td>
</tr>
<tr>
<td>13:27:00 PST</td>
<td></td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:27 GMT</td>
<td></td>
<td></td>
<td>Position: 235˚ / 3528 m</td>
<td>Dir: West; Behavior: Slow travel Outside / Outside</td>
</tr>
<tr>
<td><strong>Feb 12</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Day 6 of 105</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>Good</td>
<td>0</td>
<td>Er Total 1 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td>10:23:00 PST</td>
<td></td>
<td></td>
<td>ni / Body</td>
<td></td>
</tr>
<tr>
<td>18:23 GMT</td>
<td></td>
<td></td>
<td>Position: 207˚ / 1106 m</td>
<td>Dir: West; Behavior: Slow travel boat (V#8) approaching head on- whale snorkling</td>
</tr>
</tbody>
</table>

**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.**

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## Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:29:00 PST</td>
<td>Body</td>
<td>18:29-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 230˚ / 1331 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:31:00 PST</td>
<td>Body</td>
<td>18:31-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 244˚ / 1674 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

### Feb 14

**Total 2 Calves**

**Day 8 of 105**

**Sighting Number 07**

**Er Gray whale (northbound)**

<table>
<thead>
<tr>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:03:00 PST</td>
<td>ni / Body</td>
<td>19:03-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 187˚ / 508 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>11:09:00 PST</td>
<td>Blow</td>
<td>19:09-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 224˚ / 661 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>11:18:00 PST</td>
<td>Blow</td>
<td>19:18-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 265˚ / 1331 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

### Feb 17

**Total 5 Calves**

**Day 11 of 105**

**Sighting Number 04**

**Er Gray whale (northbound)**

<table>
<thead>
<tr>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:15:00 PST</td>
<td>SD / Blow</td>
<td>17:15-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 167˚ / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>09:19:00 PST</td>
<td>Blow</td>
<td>17:19-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 171˚ / 3088 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>09:25:00 PST</td>
<td>Blow</td>
<td>17:25-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 182˚ / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>09:33:00 PST</td>
<td>Blow</td>
<td>17:33-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 191˚ / 3088 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>09:40:00 PST</td>
<td>Blow</td>
<td>17:40-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 197˚ / 3088 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>09:49:00 PST</td>
<td>Blow</td>
<td>17:49-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 205˚ / 3088 m Dir: West; Behavior: Slow travel ● Rolling</td>
<td></td>
</tr>
<tr>
<td>09:59:00 PST</td>
<td>Blow</td>
<td>17:59-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 217˚ / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:13:00 PST</td>
<td>Blow</td>
<td>18:13-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 230˚ / 3528 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:22:00 PST</td>
<td>Blow</td>
<td>18:22-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 238˚ / 3528 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

**Sighting Number 06**

**Er Gray whale (northbound)**

<table>
<thead>
<tr>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15:00 PST</td>
<td>SD / Blow</td>
<td>18:15-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 151˚ / 3088 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>10:29:00 PST</td>
<td>Blow</td>
<td>18:29-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 174˚ / 2749 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>10:35:00 PST</td>
<td>Blow</td>
<td>18:35-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 186˚ / 2260 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:40:00 PST</td>
<td>Blow</td>
<td>18:40-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 198˚ / 2749 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td>10:45:00 PST</td>
<td>Blow</td>
<td>18:45-GMT</td>
</tr>
<tr>
<td></td>
<td>Position: 213˚ / 2749 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

#### Daily Totals

<table>
<thead>
<tr>
<th>Quality Beaufort</th>
<th>CurTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:51:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>18:51 GMT</td>
<td>Position: 227° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:57:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>18:57 GMT</td>
<td>Position: 242° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>11:00:00 PST</td>
<td>Blow</td>
<td>Inside / Outside</td>
</tr>
<tr>
<td>19:00 GMT</td>
<td>Position: 247° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

#### Feb 20

**Day 14 of 105**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Er Gray whale (northbound)</th>
<th>Total 2 — 0 Calves at sighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Good - 2</td>
<td></td>
</tr>
<tr>
<td>12:42:00 PST</td>
<td>ni / Blow</td>
<td></td>
</tr>
<tr>
<td>20:42 GMT</td>
<td>Position: 157° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>12:48:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:48 GMT</td>
<td>Position: 164° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>12:49:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:49 GMT</td>
<td>Position: 168° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>12:53:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:53 GMT</td>
<td>Position: 173° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>12:55:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:55 GMT</td>
<td>Position: 174° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>13:00:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:00 GMT</td>
<td>Position: 185° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>13:02:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:02 GMT</td>
<td>Position: 190° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>13:17:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:17 GMT</td>
<td>Position: 221° / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>13:23:00 PST</td>
<td>Blow</td>
<td>Outside / Outside</td>
</tr>
<tr>
<td>21:23 GMT</td>
<td>Position: 231° / 3528 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

#### Feb 21

**Day 15 of 105**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Er Gray whale (northbound)</th>
<th>Total 2 — 0 Calves at sighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>Good - 1</td>
<td></td>
</tr>
<tr>
<td>13:35:00 PST</td>
<td>Boat / Blow</td>
<td></td>
</tr>
<tr>
<td>21:35 GMT</td>
<td>Position: 164° / 5027 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
<tr>
<td><strong>Condor Express described whale as a North-bound Gray Whale- later identified by us</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:51:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:51 GMT</td>
<td>Position: 171° / 5027 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
<tr>
<td>14:04:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>22:04 GMT</td>
<td>Position: 177° / 13138 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
<tr>
<td>14:15:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>22:15 GMT</td>
<td>Position: 184° / 5027 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
<tr>
<td>14:23:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>22:23 GMT</td>
<td>Position: 190° / 5027 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
<tr>
<td>14:32:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>22:32 GMT</td>
<td>Position: 198° / 3528 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
<tr>
<td>14:41:00 PST</td>
<td>Blow</td>
<td>Outside / Outside</td>
</tr>
<tr>
<td>22:41 GMT</td>
<td>Position: 211° / 5027 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
<td></td>
</tr>
</tbody>
</table>

#### Feb 22

**Day 16 of 105**

<table>
<thead>
<tr>
<th>Er Gray whale (northbound)</th>
<th>Total 2 — 0 Calves at sighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:35:00 PST</td>
<td>Blow ● Moderate travel</td>
</tr>
<tr>
<td>21:35 GMT</td>
<td>Position: 164° / 5027 m Dir: West; Behavior: Slow travel ● Moderate travel</td>
</tr>
</tbody>
</table>

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Report Date 2016.11.21
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>Cuetip / Saw</th>
<th>Holly / Buys</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12</strong></td>
<td>Fair - 2</td>
<td>12:52:00 PST</td>
<td>ni / Body</td>
<td>Er Total 2 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:52-GMT</td>
<td>Position: 137° / 2260 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12:56:00 PST</td>
<td>Body</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:56-GMT</td>
<td>Position: 147° / 2260 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td><strong>13:05:00 PST</strong></td>
<td>Blow</td>
<td>21:05-GMT</td>
<td>Position: 173° / 1922 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td><strong>13:13:00 PST</strong></td>
<td>Blow</td>
<td>21:13-GMT</td>
<td>Position: 201° / 2260 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td><strong>13:20:00 PST</strong></td>
<td>Blow</td>
<td>21:20-GMT</td>
<td>Position: 223° / 2749 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td><strong>13:23:00 PST</strong></td>
<td>Blow (Inside / Outside)</td>
<td>21:23-GMT</td>
<td>Position: 230° / 2749 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td><strong>Feb 24</strong></td>
<td>Total 2</td>
<td>Calves 0</td>
<td>Er Gray whale (northbound)</td>
<td></td>
</tr>
<tr>
<td><strong>Sighting Number 14</strong></td>
<td>Good - 3</td>
<td>13:41:00 PST</td>
<td>ni / Blow</td>
<td>Er Total 2 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21:41-GMT</td>
<td>Position: 155° / 827 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td><strong>13:48:00 PST</strong></td>
<td>Blow</td>
<td>21:48-GMT</td>
<td>Position: 163° / 600 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td><strong>trail whale - big whales</strong></td>
<td>Blow</td>
<td>21:51-GMT</td>
<td>Position: 190° / 539 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td><strong>13:53:00 PST</strong></td>
<td>Blow</td>
<td>21:53-GMT</td>
<td>Position: 224° / 778 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
</tr>
<tr>
<td><strong>2 whales separated by 0.5 nm - lead</strong></td>
<td>Blow</td>
<td>21:56-GMT</td>
<td>Position: 235° / 827 m Dir: West; Behavior: Slow travel</td>
<td></td>
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<tr>
<td><strong>13:56:00 PST</strong></td>
<td>Blow</td>
<td>22:00-GMT</td>
<td>Position: 249° /  m Dir: West; Behavior: Slow travel together? 4 blows no fluke - could be 1+ 2 (1- female, 2- male)?</td>
<td></td>
</tr>
<tr>
<td><strong>14:02:00 PST</strong></td>
<td>Blow</td>
<td>22:06-GMT</td>
<td>Position: 253° / 1922 m Dir: West; Behavior: Slow travel</td>
<td></td>
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<tr>
<td><strong>Feb 27</strong></td>
<td>Total 13</td>
<td>Calves 0</td>
<td>Er Gray whale (northbound)</td>
<td></td>
</tr>
<tr>
<td><strong>Sighting Number 01</strong></td>
<td>Good - 1</td>
<td>9:10:00 PST</td>
<td>5D / Blow</td>
<td>Er Total 5 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:10-GMT</td>
<td>Position: 156° / 5027 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td><strong>9:12:00 PST</strong></td>
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<td>17:22-GMT</td>
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</table>

**Feb 24** Total 2 Calves 0
Day 18 of 105

**Feb 27** Total 13 Calves 0
Day 21 of 105
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
<th>Notes</th>
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<tbody>
<tr>
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<td>164° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
<td>Fluke</td>
</tr>
<tr>
<td>09:31:00 PST</td>
<td>Blow</td>
<td>167° / 5027 m</td>
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<td>Slow travel</td>
<td>Fluke</td>
</tr>
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<td>West</td>
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<td>Fluke</td>
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<td>224° / 5027 m</td>
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Sighting Number: 07 Good - 3 Total 3 — 0 Calves at sighting
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<th>Holly / Buoys</th>
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<tr>
<td>16</td>
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<td>ni / Blow</td>
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<tr>
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<td>Blow</td>
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<tr>
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<td>0:51; 2/28/2011-GMT</td>
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<td>17:14:00 PST</td>
<td>Blow</td>
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<td>1:14; 2/28/2011-GMT</td>
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<td>1:18; 2/28/2011-GMT</td>
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<td>1:18; 2/28/2011-GMT</td>
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</tr>
</tbody>
</table>

**Feb 28**

**Day 22 of 105**

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

**Sighting Number 11**

**Good - 3**

**Total 3 — 0 Calves at sighting**

**Sighting Number 11**

**Good - 0**

**Total 2 — 0 Calves at sighting**

**Sighting Number 16**

**Fair - 3**

**Total 2 — 0 Calves at sighting**

**Sighting Number 11**

**Good - 0**

**Total 2 — 0 Calves at sighting**

**Feb 28**

**Total 8 Calves 0**

**Gray whale (northbound)**

**Report Date 2016-11-21**
## 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Quality Beaufort Time</th>
<th>CuetTip / Saw</th>
<th>Holly / Buoys</th>
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<tbody>
<tr>
<td>12:08:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:08 GMT</td>
<td>Position: 115° / 2260 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>12:12:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:12 GMT</td>
<td>Position: 118° / 1922 m Dir: West; Behavior: Slow travel ● Fluke</td>
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</tr>
<tr>
<td>12:17:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:17 GMT</td>
<td>Position: 125° / 1483 m Dir: West; Behavior: Slow travel ● Fluke</td>
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</tr>
<tr>
<td>12:22:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:22 GMT</td>
<td>Position: 137° / 946 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:25:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:25 GMT</td>
<td>Position: 151° /  m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:27:00 PST</td>
<td>Blow</td>
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<tr>
<td>20:27 GMT</td>
<td>Position: 159° / 696 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:30:00 PST</td>
<td>Blow</td>
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<tr>
<td>20:30 GMT</td>
<td>Position: 175° / 629 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:31:00 PST</td>
<td>Blow</td>
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</tr>
<tr>
<td>20:31 GMT</td>
<td>Position: 184° / 574 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:32:00 PST</td>
<td>Blow</td>
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</tr>
<tr>
<td>20:32 GMT</td>
<td>Position: 192° / 528 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:35:00 PST</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:35 GMT</td>
<td>Position: 225° / 913 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:37:00 PST</td>
<td>Blow</td>
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<tr>
<td>20:37 GMT</td>
<td>Position: 238° / 696 m Dir: West; Behavior: Slow travel</td>
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<td>12:40:00 PST</td>
<td>Blow</td>
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<tr>
<td>20:40 GMT</td>
<td>Position: 253° / 1020 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>12:42:00 PST</td>
<td>Blow</td>
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<tr>
<td>20:42 GMT</td>
<td>Position: 256° / 1106 m Dir: West; Behavior: Slow travel</td>
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<td>12:44:00 PST</td>
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<tr>
<td>20:44 GMT</td>
<td>Position: 258° / 1483 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td></td>
<td>Inside / Outside</td>
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<tr>
<td></td>
<td>Blow</td>
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<tr>
<td></td>
<td>Position: 258° / 1483 m Dir: West; Behavior: Slow travel</td>
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</tbody>
</table>

### Sighting Number

| 13:08:00 PST          | Blow          |               |
| 21:08 GMT             | Position: 108° / 5027 m Dir: West; Behavior: Slow travel |
| 13:20:00 PST          | Blow          |               |
| 21:20 GMT             | Position: 109° / 5027 m Dir: West; Behavior: Slow travel |
| 13:28:00 PST          | Blow          |               |
| 21:28 GMT             | Position: 113° / 2749 m Dir: West; Behavior: Slow travel |
| 13:34:00 PST          | Blow          |               |
| 21:34 GMT             | Position: 117° / 3088 m Dir: West; Behavior: Slow travel |
| 13:44:00 PST          | Blow          |               |
| 21:44 GMT             | Position: 116° / 2260 m Dir: West; Behavior: Slow travel |
| 13:47:00 PST          | Blow          |               |
| 21:47 GMT             | Position: 132° / 1483 m Dir: West; Behavior: Slow travel |
| 13:52:00 PST          | Blow          |               |
| 21:52 GMT             | Position: 149° / 1106 m Dir: West; Behavior: Slow travel |
| 13:57:00 PST          | Blow          |               |
| 21:57 GMT             | Position: 189° / 678 m Dir: West; Behavior: Slow travel |

**Total 2 — 0 Calves at sighting**
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Direction</th>
<th>Behavior</th>
<th>Notes</th>
</tr>
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<tbody>
<tr>
<td>14:00:00 PST</td>
<td>Blow</td>
<td>Teach/574 m</td>
<td>West</td>
<td>Slow travel</td>
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<tr>
<td>14:11:00 PST</td>
<td>ni / Blow</td>
<td>Position: 204° / 3528 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
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<tr>
<td>14:21:00 PST</td>
<td>Blow</td>
<td>Position: 218° / 3528 m</td>
<td>West</td>
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</tr>
<tr>
<td>15:01:00 PST</td>
<td>Blow</td>
<td>Position: 235° / 3528 m</td>
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<td>Slow travel</td>
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</tr>
<tr>
<td>15:26:00 PST</td>
<td>Blow</td>
<td>Position: 212° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
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<tr>
<td>15:42:00 PST</td>
<td>Blow</td>
<td>Position: 163° / 3528 m</td>
<td>West</td>
<td>Slow travel • Rolling • Fluke</td>
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<tr>
<td>16:25:00 PST</td>
<td>Blow</td>
<td>Position: 131° / 1020 m</td>
<td>West</td>
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<td>Position: 111° / 2260 m</td>
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<td>Slow travel</td>
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<tr>
<td>Time</td>
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<td>Position</td>
<td>Behavior</td>
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<tr>
<td>13:21:00 PST</td>
<td>Blow</td>
<td>21' / 946 m</td>
<td>Dir: West; Slow travel</td>
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<tr>
<td>13:24:00 PST</td>
<td>Blow, moving faster</td>
<td>21' / 827 m</td>
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<td>13:25:00 PST</td>
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<td>21' / 735 m</td>
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<tr>
<td>13:29:00 PST</td>
<td>Blow</td>
<td>21' / 778 m</td>
<td>Dir: West; Slow travel</td>
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</tr>
<tr>
<td>13:32:00 PST</td>
<td>Blow</td>
<td>21' / 913 m</td>
<td>Dir: West; Slow travel</td>
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</tr>
<tr>
<td>13:34:00 PST</td>
<td>Blow</td>
<td>21' / 778 m</td>
<td>Dir: West; Slow travel</td>
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<tr>
<td>13:36:00 PST</td>
<td>Blow</td>
<td>21' / 1106 m</td>
<td>Dir: West; Slow travel</td>
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</tr>
<tr>
<td>13:40:00 PST</td>
<td>Blow, Inside/Outside</td>
<td>21' / 1483 m</td>
<td>Dir: West; Slow travel</td>
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<tr>
<td>13:45:00 PST</td>
<td>Phone/Blow, Condor tip: told us to look</td>
<td>21' / 3528 m</td>
<td>Dir: West; Slow travel</td>
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<tr>
<td>13:49:00 PST</td>
<td>Blow</td>
<td>21' / 5027 m</td>
<td>Dir: West; Slow travel</td>
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<td>13:53:00 PST</td>
<td>Blow, counted 3</td>
<td>21' / 5027 m</td>
<td>Dir: West; Slow travel, Fluke</td>
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<tr>
<td>14:36:00 PST</td>
<td>Blow</td>
<td>22' / 1922 m</td>
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<td>Blow</td>
<td>22' / 3099 m</td>
<td>Dir: West; Slow travel</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Sighting Number**

**21** Excellent - 1

**Er Total 3 — 0 Calves at sighting**

**22** Excellent - 1

**Er Total 2 — 0 Calves at sighting**

---

**Mar 02**

**Total 2 Calves 0**

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

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Total 1 — 0 Calves at sighting</th>
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<tbody>
<tr>
<td>05 Fair - 3</td>
<td>Er</td>
<td>05 Total 2 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13:50:00 PST ni / Blow</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21:50 GMT Position: 124° / 2749 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td></td>
<td>13:55:00 PST Blow</td>
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<td></td>
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<td>21:55 GMT Position: 131° / 2749 m Dir: West; Behavior: Slow travel ● Fluke</td>
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<td>14:04:00 PST Blow</td>
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**Mar 03**

Day 25 of 105

**Total 2 Calves 0**

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**Sighting Number 20**

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

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

#### Daily Totals

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#### Mar 09

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#### Total 5 Calves 0

*Day 31 of 105*
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Mar 10

Total 14 Calories

Er Gray whale (northbound)

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### Gray whale (northbound): Totals, Sighting + Tracking Details, On-Off

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**Sighting Number**

- **22** Fair - 1
  - Total 3 — 0 Calves at sighting

- **24** Fair - 1
  - Total 4 — 0 Calves at sighting

---

Report Date: 2016.11.21

Page Number: 15
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

### Daily Totals

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### Mar 11

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| Day 33 of 105 | Er Gray whale (northbound) |
|               | Total 7 Calves 0           |

Report Date 2016.11.21
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

#### Mar 12

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**Total 14 Calves 0**

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**Total 3 — 0 Calves at sighting**

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<td>West</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

**Total 1 — 0 Calves at sighting**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Time</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>12</td>
<td>11:09:00 PST</td>
<td>19:09 GMT</td>
<td>152˚ / 1208 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
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</table>

**Total 1 — 0 Calves at sighting**

<table>
<thead>
<tr>
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<th>Time</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
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</tbody>
</table>
## Quality-Beaufort Time

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>11:29:00 PST</td>
<td>Blow</td>
<td>139° / 946 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:35:00 PST</td>
<td>Blow</td>
<td>177° / 696 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>11:39:00 PST</td>
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<td>225° / 913 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
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<tr>
<td>12:24:00 PST</td>
<td>ni / Blow</td>
<td>127° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:29:00 PST</td>
<td>Blow</td>
<td>131° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
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</tr>
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## Sighting Number 15

**Fair - 2**  
**Er  Total 2 — 0 Calves at sighting**

**Sighting Number 18**  
**Fair - 2**  
**Er Total 4 — 0 Calves at sighting**

**Sighting Number 23**  
**Fair - 2**  
**Er Total 1 — 0 Calves at sighting**

**Mar 13**  
**Total 15 Calves 0**  
**Er Gray whale (northbound)**

**Sighting Number 10**  
**Fair - 2**  
**Er Total 1 — 0 Calves at sighting**
<table>
<thead>
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<th>Direction</th>
<th>Behavior</th>
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<tbody>
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<td>14:29:00 PDT</td>
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**Daily Totals**

**Sighting Number**

**11** Fair - 1

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<tbody>
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**Sighting Number**

**13** Fair - 1

<table>
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**Sighting Number**

**18** Fair - 2

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<td>Blow</td>
<td>128˚ / 883 m</td>
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<td>Slow travel</td>
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Report Date 2016.11.21
<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>24</td>
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<tr>
<td></td>
<td></td>
<td>22:37-GMT</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>15:45:00 PDT</td>
<td>Blow</td>
<td>Inside / Outside</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:45-GMT</td>
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<td>25</td>
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</tr>
<tr>
<td></td>
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<td>ni</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>22:54-GMT</td>
<td>Position: 251° / 827 m</td>
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<tr>
<td></td>
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<td>15:58:00 PDT</td>
<td>Blow</td>
<td>Inside / Outside</td>
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<tr>
<td></td>
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<td>Position: 263° / 1331 m</td>
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</table>

**Condor Exp reported - S#23 + S#24 joined up**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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</thead>
<tbody>
<tr>
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<td>Er Total 4 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
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<td>23:46-GMT</td>
<td>Position: 155° / 2749 m</td>
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<td>Blow</td>
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<tr>
<td></td>
<td></td>
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<tr>
<td></td>
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<tr>
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<td></td>
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</table>

**Mar 14**

**Day 36 of 105**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CueTip / Saw</th>
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</tr>
<tr>
<td></td>
<td></td>
<td>16:28-GMT</td>
<td>Position: 169° / 2749 m</td>
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<tr>
<td></td>
<td></td>
<td>9:33:00 PDT</td>
<td>Blow</td>
<td>nd / nd</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:33-GMT</td>
<td>Position: 179° / 2749 m</td>
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<table>
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<tr>
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<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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<tr>
<td></td>
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<tr>
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<tr>
<td></td>
<td></td>
<td>17:03-GMT</td>
<td>Position: 221° / 3528 m</td>
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<tr>
<td></td>
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<td></td>
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<td></td>
<td></td>
<td>17:09-GMT</td>
<td>Position: 225° / 3528 m</td>
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<td></td>
<td></td>
<td>17:13-GMT</td>
<td>Position: 228° / 3088 m</td>
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<tr>
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<td></td>
<td></td>
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<td>Position: 232° / 5027 m</td>
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<table>
<thead>
<tr>
<th>Sighting Number</th>
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<td>17:22-GMT</td>
<td>Position: 229° / 2749 m</td>
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</tr>
</tbody>
</table>

**Mar 14**

**Total 14 Calves 0**

**Mar 14**

**Day 36 of 105**

**Er Gray whale (northbound)**

- Fair - 0
- Good - 1
- Total 1 — 0 Calves at sighting
- Total 2 — 0 Calves at sighting
- Total 4 — 0 Calves at sighting

**Report Date 2016.11.21**
### Daily Totals

#### Sighting Number

<table>
<thead>
<tr>
<th>Time</th>
<th>Position</th>
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<th>Behavior</th>
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</thead>
<tbody>
<tr>
<td>10:32:00 PDT</td>
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<td>Slow travel + Fluke</td>
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</tr>
<tr>
<td>10:53:00 PDT</td>
<td>201° / 3088 m</td>
<td>West</td>
<td>Slow travel + Fluke</td>
</tr>
<tr>
<td>11:02:00 PDT</td>
<td>216° / 3088 m</td>
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<td>11:08:00 PDT</td>
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<td>Slow travel</td>
</tr>
<tr>
<td>11:20:00 PDT</td>
<td>240° / 3528 m</td>
<td>West</td>
<td>Slow travel + Fluke</td>
</tr>
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<td>11:57:00 PDT</td>
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#### Mar 15

**Total 15 Calves 0**

#### Sighting Number

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<td>Event</td>
<td>Position</td>
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<td>11:02:00</td>
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<td>Direction</td>
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<td>11</td>
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Mar 16 | Total 7 Calves 0 | Day 38 of 105

Er Gray whale (northbound)
### Daily Totals

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<th>Event Details</th>
<th>Holly / Buoys</th>
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<tbody>
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### Mar 17

**Total 24 Calves 0**

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<td>Er Total 5 — 0 Calves at sighting</td>
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<td>Blow Position: 143° / 3528 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>Blow Position: 140° / 3528 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>Blow Position: 146° / 3528 m Dir: West; Behavior: Slow travel</td>
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<td>Blow Position: 134° / 2749 m Dir: West; Behavior: Slow travel</td>
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## 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

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**Fair - 3**

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**Fair - 3**

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**Fair - 3**

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

**Daily Totals**

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<th>Holly / Buoys</th>
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**Sighting Number**

<table>
<thead>
<tr>
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<td>10:24:00 PDT</td>
<td>ni / Blow</td>
<td></td>
</tr>
<tr>
<td>17:24 GMT</td>
<td>Position: 178˚ / 5027 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:31:00 PDT</td>
<td>Blow</td>
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</tr>
<tr>
<td>17:31 GMT</td>
<td>Position: 185˚ / 3528 m Dir: West; Behavior: Slow travel</td>
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</tr>
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<td>10:34:00 PDT</td>
<td>Blow</td>
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</tr>
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<tr>
<td>10:41:00 PDT</td>
<td>Blow</td>
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<tr>
<td>17:41 GMT</td>
<td>Position: 197˚ / 3528 m Dir: West; Behavior: Slow travel</td>
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</tbody>
</table>

**Mar 18**

<table>
<thead>
<tr>
<th>Day 40 of 105</th>
<th>Total 12 Calves 0</th>
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**Sighting Number**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Holly / Buoys</th>
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</thead>
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<td>Blow</td>
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</tr>
<tr>
<td>17:20 GMT</td>
<td>Position: 201˚ / 2749 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>05:23:00 PDT</td>
<td>Blow</td>
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</tr>
<tr>
<td>17:23 GMT</td>
<td>Position: 207˚ / 3088 m Dir: West; Behavior: Slow travel Fluke</td>
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<td>05:31:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>17:31 GMT</td>
<td>Position: 185˚ / 3528 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>05:34:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>17:34 GMT</td>
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<tr>
<td>05:41:00 PDT</td>
<td>Blow</td>
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</tr>
<tr>
<td>17:41 GMT</td>
<td>Position: 197˚ / 3528 m Dir: West; Behavior: Slow travel</td>
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**Report Date** 2016.11.21
### Daily Totals

<table>
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<tr>
<th>Time</th>
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<th>CutTip / Saw</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>Holly / Buoys</th>
<th>CutTip / Saw</th>
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<tbody>
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<td>ni / Blow</td>
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<td></td>
<td>18:00:00 GMT</td>
<td>Position: 144° / 3528 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>11:07:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
<td>18:07:00 GMT</td>
<td>Position: 149° / 3528 m Dir: West; Behavior: Slow travel</td>
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<td>11:13:00 PDT</td>
<td>Blow</td>
<td></td>
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<tr>
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<td>Blow</td>
<td></td>
<td></td>
<td>18:20:00 GMT</td>
<td>Position: 164° / 3088 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>11:26:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
<td>18:26:00 GMT</td>
<td>nd / nd</td>
<td></td>
</tr>
<tr>
<td>11:36:00 PDT</td>
<td>ni / Blow</td>
<td></td>
<td></td>
<td>19:36:00 GMT</td>
<td>Position: 147° / 1922 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>11:39:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
<td>19:39:00 GMT</td>
<td>Position: 153° / 1922 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>11:43:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
<td>19:43:00 GMT</td>
<td>Position: 163° / 1922 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td>11:52:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
<td>19:52:00 GMT</td>
<td>Position: 202° / 1331 m Dir: West; Behavior: Slow travel</td>
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</table>

### Sighting Number

**07** Fair - 3  
Total 3 — 0 Calves at sighting

<table>
<thead>
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<th>Sighting Number</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>07 Fair - 3</td>
<td>Total 3 — 0 Calves at sighting</td>
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<tr>
<td>11:00:00 PDT</td>
<td>ni / Blow</td>
</tr>
<tr>
<td>18:00:00 GMT</td>
<td>Position: 144° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>11:07:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>18:07:00 GMT</td>
<td>Position: 149° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>11:13:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>18:13:00 GMT</td>
<td>Position: 156° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>11:20:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>18:20:00 GMT</td>
<td>Position: 164° / 3088 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>11:26:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>18:26:00 GMT</td>
<td>nd / nd</td>
</tr>
</tbody>
</table>

**08** Fair - 4  
Total 2 — 0 Calves at sighting

<table>
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<th>Observations</th>
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</thead>
<tbody>
<tr>
<td>08 Fair - 4</td>
<td>Total 2 — 0 Calves at sighting</td>
</tr>
<tr>
<td>11:49:00 PDT</td>
<td>ni / Blow</td>
</tr>
<tr>
<td>18:49:00 GMT</td>
<td>Position: 129° / 2260 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>11:58:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>18:58:00 GMT</td>
<td>Position: 153° / 1674 m Dir: West; Behavior: Slow travel • Fluke</td>
</tr>
</tbody>
</table>

**Total** 10 Calves

**Day 41 of 105**

---

**Mar 19**  
**Total 10 Calves 0**

**Er Gray whale (northbound)**

**01** Fair - 0  
Total 4 — 0 Calves at sighting

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>01 Fair - 0</td>
<td>Total 4 — 0 Calves at sighting</td>
</tr>
<tr>
<td>09:24:00 PDT</td>
<td>ni / Blow</td>
</tr>
<tr>
<td>16:24:00 GMT</td>
<td>Position: 178° / 2260 m Dir: West; Behavior: Slow travel • Fluke</td>
</tr>
<tr>
<td>09:34:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>16:34:00 GMT</td>
<td>Position: 212° / 1922 m Dir: West; Behavior: Slow travel • Fluke</td>
</tr>
</tbody>
</table>

**02** Fair - 0  
Total 1 — 0 Calves at sighting

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Observations</th>
</tr>
</thead>
<tbody>
<tr>
<td>02 Fair - 0</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td>09:36:00 PDT</td>
<td>ni / Blow</td>
</tr>
<tr>
<td>16:36:00 GMT</td>
<td>Position: 147° / 1922 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>09:39:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>16:39:00 GMT</td>
<td>Position: 153° / 2260 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>09:43:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>16:43:00 GMT</td>
<td>Position: 163° / 1922 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>09:52:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>16:52:00 GMT</td>
<td>Position: 202° / 1331 m Dir: West; Behavior: Slow travel • Fluke</td>
</tr>
</tbody>
</table>

**08** Fair - 2  
Total 5 — 0 Calves at sighting

<table>
<thead>
<tr>
<th>Sighting Number</th>
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<tbody>
<tr>
<td>08 Fair - 2</td>
<td>Total 5 — 0 Calves at sighting</td>
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<tr>
<td>12:57:00 PDT</td>
<td>ni / Blow</td>
</tr>
<tr>
<td>19:57:00 GMT</td>
<td>Position: 141° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:59:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>19:59:00 GMT</td>
<td>Position: 143° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>13:04:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>20:04:00 GMT</td>
<td>Position: 145° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>13:09:00 PDT</td>
<td>Blow</td>
</tr>
<tr>
<td>20:09:00 GMT</td>
<td>Position: 147° / 3528 m Dir: West; Behavior: Slow travel • Fluke</td>
</tr>
</tbody>
</table>
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Dir</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:19:00 PDT</td>
<td>Blow</td>
<td>156˚ / 3528 m</td>
<td>West</td>
<td>Slow travel ● Fluke saw body, back as well</td>
</tr>
<tr>
<td>13:27:00 PDT</td>
<td>ni</td>
<td>166˚ / 3528 m</td>
<td>West</td>
<td>Slow travel ● Fluke arcing back</td>
</tr>
<tr>
<td>13:36:00 PDT</td>
<td>Blow</td>
<td>177˚ / 3528 m</td>
<td>West</td>
<td>Slow travel ● Fluke</td>
</tr>
<tr>
<td>13:42:00 PDT</td>
<td>ni / ni</td>
<td>186˚ / 3528 m</td>
<td>West</td>
<td>Slow travel body again</td>
</tr>
<tr>
<td>9:54:00 PDT</td>
<td>ni / Blow</td>
<td>131˚ / 3528 m</td>
<td>West</td>
<td>Slow travel ● Fluke</td>
</tr>
<tr>
<td>10:03:00 PDT</td>
<td>Blow</td>
<td>138˚ / 3528 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
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</tr>
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<tr>
<td>11:36:00 PDT</td>
<td>Blow</td>
<td>190˚ / 3088 m</td>
<td>West</td>
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</table>

Mar 21 Total 42 Calves 0 Day 43 of 105
<table>
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<td></td>
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<td>18:41 GMT</td>
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</tr>
<tr>
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</tr>
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<td>West</td>
<td>Slow travel • Fluke</td>
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<td>19:03 GMT</td>
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<td>nd / Outside</td>
</tr>
<tr>
<td>13</td>
<td>12:22:00 PDT</td>
<td>163˚ / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
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<tr>
<td></td>
<td>19:22 GMT</td>
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<td>nd / Outside</td>
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<tr>
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<td>12:27:00 PDT</td>
<td>169˚ / 3088 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
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</tr>
<tr>
<td>13</td>
<td>12:35:00 PDT</td>
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<td>Slow travel</td>
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<tr>
<td></td>
<td>19:35 GMT</td>
<td></td>
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**2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort**
<table>
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<tr>
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<td>163˚ / 5027 m</td>
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**Notes:**
- **Er** indicates an individual that was following behind another individual.
- **Spyhop** indicates a spyhop action.
- **Sharking** indicates a sharking action.
# Daily Totals

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

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>Quality-Beaufort</th>
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<tbody>
<tr>
<td>16:11:00 PDT</td>
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</tr>
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<td>16:45:00 PDT</td>
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**Sighting Number**

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<tr>
<td>3</td>
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</tbody>
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**Total**

- **30** Calves
- **89** Days
- **105** Total Days

**Mar 22**

- **30** Calves
- **0** Days

**Day 44 of 105**

- **25** Calves
- **33** Days

**Gray whale (northbound)**

- **2** Calves
- **0** Days
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Time</th>
<th>Position</th>
<th>Behavior</th>
<th>Quality-Beaufort</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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</thead>
<tbody>
<tr>
<td>04 Fair - 1</td>
<td>9:36:00 PDT</td>
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</tr>
<tr>
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<tr>
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<tr>
<td>07</td>
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<td>127˚ / 2260 m</td>
<td>Dir: West; Slow travel; Fluke</td>
<td>Blow</td>
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<tr>
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<td>Dir: West; Slow travel; seems to be skirting silty water - then in silty/muddy water</td>
<td>Blow</td>
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<tr>
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<tr>
<td>07</td>
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</tr>
<tr>
<td>09 Good - 2</td>
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<td>166˚ / 3528 m</td>
<td>Dir: West; Slow travel</td>
<td>ni / Body</td>
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</tr>
<tr>
<td>09</td>
<td>11:34:00 PDT</td>
<td>176˚ / 3528 m</td>
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<td>Blow</td>
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<tr>
<td>09</td>
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<td>Dir: West; Slow travel</td>
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<td>nd / Outside</td>
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<tr>
<td>15 Fair - 2</td>
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<td>Sighting Number</td>
<td>Time</td>
<td>Position</td>
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2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

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Sighting Number 21

Fair - 0

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Sighting Number 22

Fair - 0

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<td>West</td>
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<td>Outside / Outside</td>
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<tr>
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Sighting Number 23

Fair - 0

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<td>West</td>
<td>Slow travel ● Rolling</td>
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</tr>
<tr>
<td>16:47:00 PDT</td>
<td>Body</td>
<td>197° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
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<td>West</td>
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Mar 24

Total 14 Calves

Day 46 of 105

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<tr>
<td>11:39:00 PDT</td>
<td>Blow</td>
<td>128° / 1331 m</td>
<td>West</td>
<td>Slow travel</td>
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<tr>
<td>18:39 GMT</td>
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<tr>
<td>11:41:00 PDT</td>
<td>Blow</td>
<td>138° / 1331 m</td>
<td>West</td>
<td>Slow travel</td>
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Sighting Number 06

Fair - 3

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<td>Blow</td>
<td>163° / 3528 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
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<td>11:49:00 PDT</td>
<td>Blow</td>
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<td>West</td>
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<td>11:54:00 PDT</td>
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<tr>
<td>12:00:00 PDT</td>
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<td>West</td>
<td>Slow travel</td>
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Report Date 2016. 11. 21 Page Number 34
<table>
<thead>
<tr>
<th>Time</th>
<th>Holly / Buoys</th>
<th>Quality Beaufort</th>
<th>CuetTip / Saw</th>
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</thead>
<tbody>
<tr>
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<td>19:08 GMT</td>
<td>Position: 194° / 3528 m Dir: West; Behavior: Slow travel</td>
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<td>19:12 GMT</td>
<td>Position: 207° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
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<td>Blow</td>
<td>19:18 GMT</td>
<td>Position: 211° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td><strong>12:27:00 PDT</strong></td>
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<td>19:27 GMT</td>
<td>Position: 224° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
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<td><strong>12:31:00 PDT</strong></td>
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<td>19:31 GMT</td>
<td>Position: 228° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td><strong>12:40:00 PDT</strong></td>
<td>Blow</td>
<td>19:40 GMT</td>
<td>Position: 223° / 3088 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td><strong>12:43:00 PDT</strong></td>
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<td>Position: 237° / 3528 m Dir: West; Behavior: Slow travel</td>
</tr>
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<td>19:45 GMT</td>
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<tr>
<td><strong>12:51:00 PDT</strong></td>
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</tr>
</tbody>
</table>

Total 2 — 0 Calves at sighting

**Sighting Number**

**08** Fair - 3

**09** Fair - 4

**10** Poor - 3

**11** Poor - 3

**12** Poor - 2

Mar 25

Total 2 Calves 0

Er Gray whale (northbound)
### Daily Totals

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Date</th>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>Cuetip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>Er</td>
<td>10:34:00 PDT</td>
<td>Fair - 3</td>
<td>Phone / Blow</td>
<td>Total 2 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td>first spotted outside our range by Condor</td>
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<tr>
<td>05</td>
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<td></td>
<td>saw total of 5 blows</td>
</tr>
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<td></td>
<td></td>
<td>17:43 GMT</td>
<td></td>
<td></td>
<td>total of 4-5 blows</td>
</tr>
<tr>
<td>05</td>
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<td>Blow</td>
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<tr>
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<td>Blow</td>
<td></td>
<td>multiple blows</td>
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<tr>
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<td></td>
<td>1 blow at beginning, followed by 3-4 more ~3 min later</td>
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<tr>
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<td>ni / Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
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<tr>
<td></td>
<td></td>
<td>16:43 GMT</td>
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<td>07</td>
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<td>ni / Blow</td>
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<td>Blow</td>
<td>nd / nd</td>
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</tr>
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<td>Er</td>
<td>12:17:00 PDT</td>
<td>Poor - 0</td>
<td>ni / Blow</td>
<td>Total 2 — 0 Calves at sighting</td>
</tr>
<tr>
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<td></td>
<td>19:17 GMT</td>
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<td>Er</td>
<td>12:23:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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<td>19:23 GMT</td>
<td></td>
<td></td>
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<td>Blow</td>
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<td>Er</td>
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<td>Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>19:55 GMT</td>
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<td></td>
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</tr>
</tbody>
</table>

**Mar 26**  
**Total 19 Calves 0**  
**Day 48 of 165**  

**Report Date** 2016.11.21
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

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

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Report Date 2016.11.21 Page Number 37
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Type</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:14:00 PDT</td>
<td>Blow</td>
<td>144° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:20:00 PDT</td>
<td>Blow</td>
<td>149° / 2749 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:29:00 PDT</td>
<td>Blow</td>
<td>164° / 2749 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:31:00 PDT</td>
<td>Blow</td>
<td>167° / 2749 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:37:00 PDT</td>
<td>Blow</td>
<td>179° / 2260 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:45:00 PDT</td>
<td>Blow</td>
<td>199° / 2260 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:55:00 PDT</td>
<td>Blow</td>
<td>223° / 2260 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>15:13:00 PDT</td>
<td>Blow</td>
<td>250° / 3088 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:28:00 PDT</td>
<td>ni / Blow</td>
<td>139° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:39:00 PDT</td>
<td>Blow</td>
<td>144° / 3528 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>14:52:00 PDT</td>
<td>Body</td>
<td>144° / 3528 m</td>
<td>West</td>
<td>Slow travel • Breach</td>
</tr>
<tr>
<td>14:57:00 PDT</td>
<td>Body</td>
<td>154° / 3528 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>15:23:00 PDT</td>
<td>Blow</td>
<td>192° / 3088 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
<tr>
<td>15:47:00 PDT</td>
<td>Body</td>
<td>220° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>16:06:00 PDT</td>
<td>Blow</td>
<td>233° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>15:05:00 PDT</td>
<td>ni / Blow</td>
<td>229° / 3528 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>9:33:00 PDT</td>
<td>Blow</td>
<td>119° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>9:36:00 PDT</td>
<td>Blow</td>
<td>120° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>9:39:00 PDT</td>
<td>Blow</td>
<td>123° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>9:45:00 PDT</td>
<td>Blow</td>
<td>122° / 5027 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

**Sighting Number**

| 13 | Fair - 0 | Er Total 3 — 0 Calves at sighting |
| 14 | Fair - 0 | Er Total 2 — 0 Calves at sighting |

**Mar 27**

| 05 | Good - 0 | Er Gray whale (northbound) |

**Report Date 2016.11.21**
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals

Sighting Number 08 Good - 1
Time
9:54:00 PDT
16:54 GMT
Holly / Buoys
Blow
Position: 126° / 5027 m Dir: West; Behavior: Slow travel

Sighting Number 09 Good - 1
Time
10:01:00 PDT
17:01 GMT
Blow
Position: 130° / 3528 m Dir: West; Behavior: Slow travel

Sighting Number 10 Good - 1
Time
10:07:00 PDT
17:07 GMT
Blow
Position: 133° / 3528 m Dir: West; Behavior: Slow travel

Sighting Number 11 Good - 1
Time
10:14:00 PDT
17:14 GMT
Blow
Position: 140° / 3088 m Dir: West; Behavior: Slow travel

Sighting Number 11 Good - 1
Time
10:23:00 PDT
17:23 GMT
Blow
Position: 150° / 2749 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 11 Good - 1
Time
10:31:00 PDT
17:31 GMT
Blow
Position: 170° / 2260 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 08 Good - 1
Time
11:08:00 PDT
18:08 GMT
ni / Blow
Position: 199° / 3528 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 09 Good - 1
Time
11:18:00 PDT
18:18 GMT
Blow
Position: 207° / 3528 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 10 Good - 1
Time
11:26:00 PDT
18:26 GMT
Blow
Position: 216° / 3528 m Dir: West; Behavior: Slow travel

Sighting Number 10 Good - 1
Time
12:11:00 PDT
19:11 GMT
ni / Body
Position: 174° / 382 m Dir: West; Behavior: Slow travel

Sighting Number 10 Good - 1
Time
12:25:00 PDT
19:25 GMT
ni / Blow
Position: 129° / 2260 m Dir: West; Behavior: Slow travel

Sighting Number 10 Good - 1
Time
12:32:00 PDT
19:32 GMT
Blow
Position: 141° / 1331 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 10 Good - 1
Time
12:36:00 PDT
19:36 GMT
Blow
Position: 152° / 1020 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 10 Good - 1
Time
12:47:00 PDT
19:47 GMT
Blow
Position: 211° / 778 m Dir: West; Behavior: Slow travel

Sighting Number 10 Good - 1
Time
12:51:00 PDT
19:51 GMT
Blow
Position: 232° / 1106 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 11 Good - 1
Time
13:12:00 PDT
20:12 GMT
ni / Blow
Position: 219° / 913 m Dir: West; Behavior: Slow travel • Fluke

Sighting Number 11 Good - 1
Time
13:12:00 PDT
20:12 GMT
Clean / Inside
Position: 254° / 1483 m Dir: West; Behavior: Slow travel • Fluke

Mar 28 Total 13 Calves 0
Day 50 of 105

Er Gray whale (northbound)
<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
<td>09:33:00 PDT</td>
<td>Fair - 2</td>
<td>Sd / Body</td>
<td>nd / Outside</td>
</tr>
<tr>
<td></td>
<td>16:33 GMT</td>
<td></td>
<td>Position: 212˚ / 3088 m Dir: West; Behavior: Slow travel ● Rolling saw something in water - looked in scope - saw rolling whales - then two faint blows - did not see again</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>11:01:00 PDT</td>
<td>Good - 1</td>
<td>ni / Blow</td>
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<tr>
<td></td>
<td>11:09:00 PDT</td>
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<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11:17:00 PDT</td>
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<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11:23:00 PDT</td>
<td></td>
<td>Blow</td>
<td>Inside / Outside</td>
</tr>
<tr>
<td>02</td>
<td>11:52:00 PDT</td>
<td>Good - 3</td>
<td>ni / Blow</td>
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<td>12:59:00 PDT</td>
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<td>13:13:00 PDT</td>
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<td></td>
<td>13:17:00 PDT</td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13:21:00 PDT</td>
<td></td>
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<td></td>
<td>13:28:00 PDT</td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>02</td>
<td>13:50:00 PDT</td>
<td></td>
<td>Blow</td>
<td>Inside / Outside</td>
</tr>
</tbody>
</table>

Report Date 2016. 11. 21  Page Number 40
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>Calves at sighting</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Poor - 4</td>
<td>14:57:00 PDT ni / Blow</td>
<td>Er Total 3 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>21:57 GMT Position: 120˚ / 2749 m Dir: West; Behavior: Slow travel ● Fluke</td>
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</tr>
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<td></td>
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<td>15:07:00 PDT Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>22:07 GMT Position: 124˚ / 2749 m Dir: West; Behavior: Slow travel</td>
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<td>15:16:00 PDT Blow</td>
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<td>15:21:00 PDT Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>22:21 GMT Position: 150˚ / 1331 m Dir: West; Behavior: Slow travel</td>
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</tr>
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<td>15:30:00 PDT Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>22:30 GMT Position: 194˚ / 778 m Dir: West; Behavior: Slow travel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15:50:00 PDT Blow</td>
<td>Inside / Outside</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:50 GMT Position: 260˚ / 1674 m Dir: West; Behavior: Slow travel</td>
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</tr>
<tr>
<td>15</td>
<td>Poor - 4</td>
<td>15:32:00 PDT ni / Blow</td>
<td>Er Total 1 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:32 GMT Position: 140˚ / 1674 m Dir: West; Behavior: Slow travel</td>
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<td></td>
<td></td>
<td>15:36:00 PDT Blow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:36 GMT Position: 147˚ / 1331 m Dir: West; Behavior: Slow travel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:10:00 PDT Blow</td>
<td>nd / nd</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>23:10 GMT Position: 272˚ / 3088 m Dir: West; Behavior: Slow travel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>05</td>
<td>Fair - 2</td>
<td>9:35:00 PDT ni / Blow</td>
<td>Er Total 1 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:35 GMT Position: 150˚ / 2749 m Dir: West; Behavior: Slow travel</td>
<td>Condor said 2</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:12:00 PDT Blow</td>
<td>Inside / Outside</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>08</td>
<td>Fair - 0</td>
<td>15:47:00 PDT ni / Blow</td>
<td>Er Total 2 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:47 GMT Position: 204˚ / 883 m Dir: West; Behavior: Slow travel</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>15:52:00 PDT Blow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:52 GMT Position: 228˚ / 946 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>15:57:00 PDT Blow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>22:57 GMT Position: 251˚ / 1331 m Dir: West; Behavior: Slow travel ● Fluke</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>16:04:00 PDT Blow</td>
<td>Inside / Outside</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>23:04 GMT Position: 268˚ / 1922 m Dir: West; Behavior: Slow travel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09</td>
<td>Fair - 0</td>
<td>16:19:00 PDT ni / Blow</td>
<td>Er Total 2 — 0 Calves at sighting</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>23:19 GMT Position: 214˚ / 2749 m Dir: West; Behavior: Slow travel</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:23:00 PDT Blow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>23:23 GMT Position: 222˚ / 2749 m Dir: West; Behavior: Slow travel big blow - little blow</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:30:00 PDT Blow</td>
<td>don't believe it was a calf - side by side, some separation</td>
<td></td>
</tr>
</tbody>
</table>

Mar 29
Total 7 Calves
Day 51 of 105

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

#### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>CusTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:37:00 PDT</td>
<td>Blow</td>
<td></td>
<td>Inside / Outside</td>
</tr>
<tr>
<td>23:37:00 GMT</td>
<td>Position: 242° / 2749 m</td>
<td>Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

**Sighting Number**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Fair - 0</td>
<td>Er Total 2 — 1 Calf at sighting</td>
<td></td>
</tr>
</tbody>
</table>

**Images:** none

---

### Mar 30

Total 9 Calves 0 Day 52 of 105

**Er Gray whale (northbound)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:42:00 PDT</td>
<td>SD / Blow</td>
<td></td>
</tr>
<tr>
<td>23:42:00 GMT</td>
<td>Position: 143° / 1208 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
</table>

**very close - switch side - more blows at surface for calf - cow fluked - calf did not**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:50:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>23:50:00 GMT</td>
<td>Position: 188° / 735 m</td>
<td>Dir: West; Behavior: Slow travel • Fluke</td>
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</tbody>
</table>

**16:58:00 PDT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23:58:00 GMT</td>
<td>Body</td>
<td>Inside / Outside</td>
</tr>
</tbody>
</table>

**Mar 30**

Total 9 Calves 0 Day 52 of 105

**Er Gray whale (northbound)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:37:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>23:37:00 GMT</td>
<td>Position: 242° / 2749 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
</table>

**Images:** none

---

### 13:23:00 PDT

<table>
<thead>
<tr>
<th>Time</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>19:13:00 GMT</td>
<td>Position: 137° / 455 m</td>
<td>Dir: West; Behavior: Slow travel • Moderate travel</td>
</tr>
</tbody>
</table>

**juvenile - Santa Barbara Channel Keeper crossed over path head on - long down time - disappeared**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:42:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:14:00 GMT</td>
<td>Position: 165° / 388 m</td>
<td>Dir: West; Behavior: Slow travel • Moderate travel</td>
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</table>

**16:14:00 PDT**

<table>
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<tr>
<th>Time</th>
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<th>Description</th>
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<tbody>
<tr>
<td>16:16:00 PDT</td>
<td>Blow</td>
<td>Inside / Nd</td>
</tr>
<tr>
<td>19:16:00 GMT</td>
<td>Position: 201° / 356 m</td>
<td>Dir: West; Behavior: Slow travel • Moderate travel</td>
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</tbody>
</table>

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### 13:26:00 PDT

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:23:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:23:00 GMT</td>
<td>Position: 220° / 3528 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
</table>

**juvenile - Santa Barbara Channel Keeper crossed over path head on - long down time - disappeared**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:27:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:27:00 GMT</td>
<td>Position: 223° / 3528 m</td>
<td>Dir: West; Behavior: Slow travel</td>
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</tbody>
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**13:32:00 PDT**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>20:22:00 GMT</td>
<td>Outside / Outside</td>
<td></td>
</tr>
<tr>
<td>20:32:00 GMT</td>
<td>Position: 235° / 3528 m</td>
<td>Dir: West; Behavior: Slow travel</td>
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</tbody>
</table>

**13:57:00 PDT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:57:00 PDT</td>
<td>Blow</td>
<td>Outside / Outside</td>
</tr>
<tr>
<td>20:57:00 GMT</td>
<td>Position: 246° / 5027 m</td>
<td>Dir: West; Behavior: Slow travel</td>
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### 14:36:00 PDT

<table>
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</thead>
<tbody>
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<td>13:36:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>20:36:00 GMT</td>
<td>Position: 231° / 5027 m</td>
<td>Dir: West; Behavior: Slow travel • Moderate travel</td>
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</table>

**might have sped up due to V#23**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Blow</td>
<td>Outside / Outside</td>
</tr>
<tr>
<td>20:57:00 GMT</td>
<td>Position: 246° / 5027 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
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### 15:00:00 PDT

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:53:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>21:53:00 GMT</td>
<td>Position: 128° / 2749 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
</table>

**14:58:00 PDT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>21:58:00 GMT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>15:00:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>22:00:00 GMT</td>
<td>Position: 138° / 2260 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
</table>

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Report Date 2016 . 11 . 21
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
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<th>Location</th>
<th>Behavior</th>
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</tr>
<tr>
<td>15:05:00 PDT</td>
<td>Blow</td>
<td>22:05 GMT</td>
</tr>
<tr>
<td>15:07:00 PDT</td>
<td>Blow</td>
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<td>Blow</td>
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<table>
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<th>Behavior</th>
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<tbody>
<tr>
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<td>ni / ni</td>
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</tr>
<tr>
<td>15:25:00 PDT</td>
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<tr>
<td>15:38:00 PDT</td>
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<td>22:38 GMT</td>
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<tr>
<td>15:44:00 PDT</td>
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<table>
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<th>31</th>
<th>Fair - 1</th>
<th>0 Calves at sighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15:07:00 PDT</td>
<td></td>
<td>ni / ni</td>
<td></td>
</tr>
<tr>
<td>15:15:00 PDT</td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>15:21:00 PDT</td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>15:25:00 PDT</td>
<td></td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>15:31:00 PDT</td>
<td></td>
<td>Blow</td>
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<tr>
<td>15:38:00 PDT</td>
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<td>Blow</td>
<td></td>
</tr>
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<td>15:44:00 PDT</td>
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<td>Blow</td>
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</table>

Report Date: 2016.11.21

Day: 53 of 105

Mar 31

Total Calves: 15

Er Gray whale (northbound)
<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CueTip / Blow</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>03</td>
<td>Good - 0</td>
<td>9:33:00 PDT</td>
<td>ni / Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>16:33-GMT</td>
<td>Position: 133° / 3528 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:04:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:04-GMT</td>
<td>Position: 144° / 1403 m</td>
<td>Dir: West; Behavior: Slow travel ● Fluke</td>
</tr>
<tr>
<td></td>
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<td>10:11:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:11-GMT</td>
<td>Position: 173° / 1106 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:19:00 PDT</td>
<td>Body</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:19-GMT</td>
<td>Position: 230° / 1483 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10:28:00 PDT</td>
<td>Body</td>
<td>Inside / Outside</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:28-GMT</td>
<td>Position: 246° / 1483 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>15</td>
<td>Fair - 0</td>
<td>13:32:00 PDT</td>
<td>ni / Body</td>
<td>Total 1 — 0 Calves at sighting Disappeared</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:32-GMT</td>
<td>Position: 178° / 550 m</td>
<td>Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td></td>
<td>13:41:00 PDT</td>
<td>ni / Blow</td>
<td>one surface + gone - could have been seen earlier by observer @ 90°/5</td>
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<tr>
<td></td>
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<tr>
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<td></td>
<td>20:46-GMT</td>
<td>Position: 129° / 1106 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
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<td></td>
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<td>Blow</td>
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<td></td>
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<td>20:49-GMT</td>
<td>Position: 147° / 778 m</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>13:53:00 PDT</td>
<td>Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>20:53-GMT</td>
<td>Position: 185° / 471 m</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>13:58:00 PDT</td>
<td>Blow</td>
<td>Inside / Outside</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:58-GMT</td>
<td>Position: 242° / 696 m</td>
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</tr>
<tr>
<td>16</td>
<td>Fair - 0</td>
<td>14:00:00 PDT</td>
<td>ni / Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>21:00-GMT</td>
<td>Position: 148° / 5027 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td></td>
<td></td>
<td>14:10:00 PDT</td>
<td>Blow</td>
<td>lead 2 + 3 trail</td>
</tr>
<tr>
<td></td>
<td></td>
<td>21:10-GMT</td>
<td>Position: 149° / 5027 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
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<td></td>
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<td>14:35:00 PDT</td>
<td>Blow</td>
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<tr>
<td></td>
<td></td>
<td>21:35-GMT</td>
<td>Position: 158° / 3088 m</td>
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<td>14:44:00 PDT</td>
<td>Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>21:44-GMT</td>
<td>Position: 164° / 2749 m</td>
<td>Dir: West; Behavior: Slow travel ● Fluke</td>
</tr>
<tr>
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<tr>
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<td>Position: 222° / 2749 m</td>
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### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

#### Daily Totals

<table>
<thead>
<tr>
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<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>15:31:00 PDT</td>
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<td>Position: 224° / 2749 m Dir: West; Behavior: Slow travel ● Bubbles seen ● Rolling</td>
</tr>
<tr>
<td>15:34:00 PDT</td>
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<td>Position: 228° / 2749 m Dir: West; Behavior: Slow travel ● Fluke ● Rolling</td>
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<tr>
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#### Sighting Number

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<tr>
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<th>Fair</th>
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**Apr 01**

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<th>Event</th>
<th>Details</th>
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<td>Position: 191° / 3528 m Dir: West; Behavior: Slow travel ● Fluke</td>
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**Total 5 Calves 0**

---

Report Date 2016 . 11 . 21

Page Number 45
## 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On- Effort

<table>
<thead>
<tr>
<th>Daily Totals</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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### Apr 02

#### Total 1 Calves 0

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<tr>
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<th>Poor - 0</th>
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<tr>
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### Apr 03

#### Total 6 Calves 0

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### Sighting Number

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<td>Time</td>
<td>Event</td>
<td>Direction</td>
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<tr>
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</tr>
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<td>Blow</td>
<td>West</td>
</tr>
<tr>
<td>16:55:00 PDT</td>
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<tr>
<td>16:58:00 PDT</td>
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</tr>
<tr>
<td>17:02:00 PDT</td>
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<td>West</td>
</tr>
<tr>
<td>13:33:00 PDT</td>
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<td>West</td>
</tr>
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**Daily Totals**

- **Holly / Buoys**

**Quality Beaufort**

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<th>Event</th>
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<th>Behavior</th>
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<tbody>
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<td>West</td>
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<td>117˚ / 1483 m</td>
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<td>Blow</td>
<td>West</td>
<td>Slow travel + Fluke</td>
<td>123˚ / 1331 m</td>
</tr>
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<td>Blow</td>
<td>West</td>
<td>Slow travel + Fluke</td>
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<td>West</td>
<td>Slow travel</td>
<td>178˚ / 508 m</td>
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<tr>
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<td>Blow</td>
<td>West</td>
<td>Slow travel</td>
<td>227˚ / 827 m</td>
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**Sighting Number**

- **Apr 04**

**Total 9 Calves 0**

**Er Gray whale (northbound)**

<table>
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<tr>
<td>13:30:00 PDT</td>
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<td>West</td>
<td>Slow travel</td>
<td>113˚ / 1106 m</td>
</tr>
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<td>Blow</td>
<td>West</td>
<td>Slow travel</td>
<td>117˚ / 696 m</td>
</tr>
<tr>
<td>13:39:00 PDT</td>
<td>Blow</td>
<td>West</td>
<td>Slow travel</td>
<td>121˚ / 696 m</td>
</tr>
<tr>
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<td>West</td>
<td>Slow travel</td>
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<td>West</td>
<td>Slow travel</td>
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<td>Slow travel</td>
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<td>West</td>
<td>Slow travel</td>
<td>289˚ / 735 m</td>
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**Sighting Number**

- **Apr 05**

**Total 14 Calves 0**

**Er Gray whale (northbound)**

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<th>Position</th>
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<td>West</td>
<td>Slow travel + Fluke</td>
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**Note:**

- Possibility of 7 whales
- Series of multiple blows from group
### Daily Totals

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<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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<tr>
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<tr>
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<td>single blow then group of blows</td>
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#### Sighting Number

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</tr>
<tr>
<td>Time</td>
<td>15:13:00 PDT</td>
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<td>Inside / nd</td>
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#### Apr 05

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<tr>
<td>Time</td>
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Report Date 2016.11.21

Page Number 48
## 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

### Daily Totals

<table>
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<tr>
<th>Sighting Number</th>
<th>Quality</th>
<th>Beaufort</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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<tbody>
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</table>

### Sighting Number 23

**Total 1 — 0 Calves at sighting**

- **16:40:00 PDT**
  - ni / Blow
  - Position: 177° / 2749 m
  - Dir: West; Behavior: Slow travel

- **16:46:00 PDT**
  - Blow
  - Position: 192° / 2749 m
  - Dir: West; Behavior: Slow travel • Fluke

- **16:53:00 PDT**
  - Blow
  - Position: 211° / 3088 m
  - Dir: West; Behavior: Slow travel • Fluke

- **17:00:00 PDT**
  - Blow
  - Position: 221° / 3088 m
  - Dir: West; Behavior: Slow travel

- **17:07:00 PDT**
  - ni / Blow
  - Position: 230° / 3528 m
  - Dir: West; Behavior: Slow travel

### Sighting Number 24

**Total 1 — 0 Calves at sighting**

- **16:50:00 PDT**
  - ni / Blow
  - Position: 135° / 778 m

**possible juvenile**

- **16:59:00 PDT**
  - Blow
  - Position: 213° / 508 m

**Inside / nd**

- **17:03:00 PDT**
  - Blow
  - Position: 213° / 508 m

### Apr 06

**Total 12 Calves 0**

**Gray whale (northbound)**

### Sighting Number 02

**Total 2 — 0 Calves at sighting**

- **09:43:00 PDT**
  - ni / Blow
  - Position: 110° / 1922 m

- **09:46:00 PDT**
  - Blow
  - Position: 112° / 1483 m

- **09:49:00 PDT**
  - Blow
  - Position: 116° / 1331 m

- **09:52:00 PDT**
  - Body
  - Position: 119° / 946 m

- **09:55:00 PDT**
  - Blow
  - Position: 134° / 600 m

- **09:57:00 PDT**
  - Blow
  - Position: 151° / 489 m

- **09:58:00 PDT**
  - Body
  - Position: 174° / 455 m

- **10:01:00 PDT**
  - Body
  - Position: 208° / 412 m

- **10:03:00 PDT**
  - Body
  - Position: 241° / 489 m

- **10:06:00 PDT**
  - Body
  - Position: 288° / 489 m • Breach

**3 breaches**

- **10:07:00 PDT**
  - Blow
  - Inside / Inside

- **10:09:00 PDT**
  - Blow
  - Inside / Inside

### Sighting Number 03

**Total 3 — 0 Calves at sighting**

- **10:05:00 PDT**
  - ni / Blow
  - Position: 170° / 2749 m

Report Date: 2016.11.21
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Location</th>
<th>Behavior</th>
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<td>194° / 2749 m</td>
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<tr>
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<td>213° / 2749 m</td>
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<tr>
<td>13:17:00 PDT</td>
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<td>164° / 1208 m</td>
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<td>207° / 946 m</td>
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<td>215° / 1106 m</td>
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### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>Holly / Buoys</th>
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**Apr 08**

#### Total 3 Calves 1 Day 61 of 105

<table>
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<td>Er Gray whale (northbound)</td>
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<td>Position: 128˚ / 2260 m Dir: West; Behavior: Slow travel</td>
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Report Date 2016.11.21
### Daily Totals

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<th>CueTip / Saw</th>
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#### Apr 09

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<td></td>
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#### Apr 10

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<td>ni / Blow</td>
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<tr>
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<td>Position: 107˚ / 2749 m  Dir: West; Behavior: Slow travel</td>
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</table>

### Observations

- **Disappeared - intimidated by dolphins?** - seeps very active
- **Very long downtime - Tt? seeps?**

---

**Report Date 2016.11.21**

Page Number 52
<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Time (PDT)</th>
<th>Time (GMT)</th>
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<th>Dir</th>
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<td><strong>23</strong></td>
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<td>177˚ / 1483 m</td>
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</table>

*Note: Blow not blowing much but can see backs in water*

*Behavior of cow/calf but were not*
### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position (° / m)</th>
<th>Direction</th>
<th>Behavior</th>
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<td>8:57:00 PDT</td>
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<td>West</td>
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### April 12

#### Sighting Number 01

- **Fair - 3**
  - **Er** Total 1 — 0 Calves at sighting
  - **8:57:00 PDT**
    - ni / Blow
  - **15:57:00 GMT**
    - Position: 159° / 296 m
    - Direction: West
    - Behavior: Slow travel • Rolling
    - *juvenile perhaps feeding?*
  - **9:58:00 PDT**
    - Blow
    - nd / nd

#### Sighting Number 16

- **Fair - 2**
  - **Er** Total 2 — 0 Calves at sighting
  - **13:56:00 PDT**
    - ni / Blow
  - **20:56:00 GMT**
    - Position: 164° / 629 m
    - Direction: West
    - Behavior: Slow travel

### April 13

#### Sighting Number 03

- **Fair - 3**
  - **Er** Total 2 — 0 Calves at sighting
  - **9:17:00 PDT**
    - ni / Blow
  - **16:17:00 GMT**
    - Position: 119° / 1403 m
    - Direction: West
    - Behavior: Slow travel • Fluke
    - *pair of juveniles*
  - **9:25:00 PDT**
    - Blow
    - 156° / 528 m
  - **9:30:00 PDT**
    - Blow
    - 219° / 426 m
  - **9:31:00 PDT**
    - Blow
    - 242° / 528 m
  - **9:39:00 PDT**
    - Blow
    - 278° / 1106 m
  - **16:39:00 GMT**
    - Inside / Through

#### Sighting Number 07

- **Fair - 3**
  - **Er** Total 1 — 0 Calves at sighting
  - **10:55:00 PDT**
    - ni / Body
    - 149° / 356 m
  - **10:57:00 GMT**
    - Position: 194° / 300 m
    - Direction: West
    - Behavior: Slow travel

### April 14

#### Sighting Number 08

- **Fair - 3**
  - **Er** Total 1 — 0 Calves at sighting
  - **10:55:00 PDT**
    - ni / Body
    - 149° / 356 m
  - **10:57:00 GMT**
    - Position: 194° / 300 m
    - Direction: West
    - Behavior: Slow travel

#### Sighting Number 07

- **Fair - 3**
  - **Er** Total 1 — 0 Calves at sighting
  - **10:55:00 PDT**
    - ni / Body
    - 149° / 356 m
  - **10:57:00 GMT**
    - Position: 194° / 300 m
    - Direction: West
    - Behavior: Slow travel

---

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<table>
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<th>Time</th>
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Images: 3913-3922

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

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<thead>
<tr>
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<th>CueTip / Saw</th>
<th>Holly / Buoy</th>
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<td>Position: 205’ / 946 m Dir; Behavior: Slow travel</td>
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<td>Blow</td>
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#### Apr 15

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**Possible 3rd whale?**

**Images:** 3963-3965
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<td>Blow</td>
<td>Position: 155˚ / 1208 m</td>
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</tr>
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<tr>
<td>11:58:00 PDT</td>
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**Sighting Number**

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</tr>
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<td>04</td>
<td>Fair - 1</td>
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### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-ffort

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<td>Blow</td>
<td>289° / 946 m</td>
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</table>

**Sighting Number:** 07 Good - 1

**Images:** 4093-4174

**Note:** 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.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:03:00 PDT</td>
<td>Blow</td>
<td>102° / 3088 m</td>
<td>West; Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

**Note:** 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

**Images:** 4176-4265

**Sighting Number:** 15 Good - 1

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

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<th>Holly / Buoys</th>
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<td></td>
<td></td>
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<td>Position: 272˚ / 388 m</td>
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<td></td>
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<td>Position: 288˚ / 696 m</td>
<td>West</td>
<td>Slow travel</td>
<td>Inside / Inside</td>
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Images: 4266-4343
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<th>Event Description</th>
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<th>Direction</th>
<th>Behavior</th>
<th>Images</th>
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<tbody>
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<td>10:09:00 PDT</td>
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<td>102˚ / 1922 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
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<tr>
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<td>Blow</td>
<td>104˚ / 1674 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
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<tr>
<td></td>
<td>Blow</td>
<td>234˚ / 471 m</td>
<td>East</td>
<td>Slow travel</td>
<td></td>
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<tr>
<td>10:51:00 PDT</td>
<td>Blow</td>
<td>248˚ / 508 m</td>
<td>East</td>
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<td>facing east but not traveling, feeding?</td>
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<td></td>
<td>Blow</td>
<td>248˚ / 455 m</td>
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<td>257˚ / 539 m</td>
<td>West</td>
<td>Slow travel • Milling</td>
<td></td>
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<tr>
<td></td>
<td>Blow</td>
<td>260˚ / 539 m</td>
<td>East</td>
<td>Slow travel • Milling</td>
<td>still not really traveling - unusual behavior</td>
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<tr>
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</tr>
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<td>Blow</td>
<td>264˚ / 678 m</td>
<td>East</td>
<td>Slow travel • Milling</td>
<td></td>
</tr>
<tr>
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<td></td>
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<tr>
<td>14:47:00 PDT</td>
<td>Blow</td>
<td>218˚ / 489 m</td>
<td>East</td>
<td>Slow travel</td>
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<tr>
<td>14:58:00 PDT</td>
<td>Blow</td>
<td>236˚ / 489 m</td>
<td>East</td>
<td>Slow travel • Milling • Fluke • Milling</td>
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<tr>
<td>15:06:00 PDT</td>
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<td>234˚ / 489 m</td>
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<td></td>
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<td>15:15:00 PDT</td>
<td>Blow</td>
<td>209˚ / 539 m</td>
<td>East</td>
<td>Slow travel • Milling • Fluke</td>
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</table>

Images: 4437
Images: 4439-4443

Er Gray whale (northbound)

Total 6 Calves
Day 71 of 105
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CutTip / Saw</th>
<th>Holly / Buoys</th>
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<td>03</td>
<td>Poor - 1</td>
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<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>03</td>
<td>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</td>
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<tr>
<td></td>
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<td>09:52:00 PDT</td>
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<td>Total 1 — 0 Calves at sighting</td>
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<tr>
<td></td>
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<td>Position: 133° / 913 m Dir: West; Behavior: Slow travel</td>
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<td></td>
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<td>Position: 198° / 539 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 145° / 600 m Dir: West; Behavior: Slow travel</td>
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<td>Blow</td>
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<tr>
<td></td>
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<td>Position: 282° / 827 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>10:15:00 PDT</td>
<td>Blow</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>17:15 GMT</td>
<td>Position: 287° / 883 m Dir: no direction; Behavior: not traveling</td>
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<tr>
<td></td>
<td></td>
<td>10:17:00 PDT</td>
<td>Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:17 GMT</td>
<td>Position: 293° / 883 m Dir: West; Behavior: not traveling</td>
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<tr>
<td></td>
<td></td>
<td>10:21:00 PDT</td>
<td>Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>17:21 GMT</td>
<td>Position: 293° / 1331 m Dir: West; Behavior: Slow travel ● Fluke</td>
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<tr>
<td>09</td>
<td>Fair - 2</td>
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<tr>
<td></td>
<td></td>
<td>20:15 GMT</td>
<td>Position: 144° / 600 m Dir: West; Behavior: Slow travel</td>
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</tr>
<tr>
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<td>Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:17 GMT</td>
<td>Position: 172° / 508 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td></td>
<td>13:20:00 PDT</td>
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<td>Total 1 — 0 Calves at sighting</td>
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<tr>
<td></td>
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<td>Position: 211° / 489 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
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<td>Position: 277° / 946 m Dir: West; Behavior: Slow travel Inside / Through</td>
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<tr>
<td></td>
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<tr>
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<td></td>
<td>13:47:00 PDT</td>
<td>Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:47 GMT</td>
<td>Position: 172° / 528 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>13:51:00 PDT</td>
<td>Blow</td>
<td>Total 1 — 0 Calves at sighting</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20:51 GMT</td>
<td>Position: 219° / 550 m Dir: West; Behavior: Slow travel Inside / nd</td>
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</table>

Images: 4468 - 4534 (includes some pelicans)

whale did not surface again
### Daily Totals

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<th>Direc.</th>
<th>Behavior</th>
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</thead>
<tbody>
<tr>
<td>14:29:00 PDT</td>
<td>ni / Blow</td>
<td>102˚ / 3088 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>14:35:00 PDT</td>
<td>Blow</td>
<td>101˚ / 2749 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
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</tr>
<tr>
<td>14:46:00 PDT</td>
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<td>107˚ / 2260 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>14:49:00 PDT</td>
<td>Body</td>
<td>110˚ / 1922 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>14:50:00 PDT</td>
<td>Body</td>
<td>110˚ / 1674 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>14:52:00 PDT</td>
<td>Body</td>
<td>112˚ / 1483 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>14:56:00 PDT</td>
<td>Blow</td>
<td>117˚ / 1331 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>14:58:00 PDT</td>
<td>Blow</td>
<td>124˚ / 1106 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>15:00:00 PDT</td>
<td>Body</td>
<td>134˚ / 778 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>15:03:00 PDT</td>
<td>Blow</td>
<td>167˚ / 778 m</td>
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<tr>
<td>15:08:00 PDT</td>
<td>Body</td>
<td>229˚ / 412 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>15:11:00 PDT</td>
<td>Body</td>
<td>256˚ / 412 m</td>
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</tr>
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<td>15:12:00 PDT</td>
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<td>264˚ / 412 m</td>
<td>West; Slow travel</td>
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<tr>
<td>15:17:00 PDT</td>
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<td>286˚ / 696 m</td>
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<td>15:19:00 PDT</td>
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<td>293˚ / 440 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>15:21:00 PDT</td>
<td>Body</td>
<td>297˚ / 412 m</td>
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</tr>
<tr>
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<td>300˚ / 412 m</td>
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</table>

### Gray whale (northbound): Totals, Sighting + Tracking Details, On-Errort

#### Images: 4580-4645

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<tbody>
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<td>Position: 101˚ / 2260 m</td>
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#### Fair - 3

<table>
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<th>Behavior</th>
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<tbody>
<tr>
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<td>Dir: West; Behavior: Slow travel</td>
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<td>11:17:00 PDT</td>
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### Day 72 of 105

**Report Date** 2016. 11. 21
<table>
<thead>
<tr>
<th>Time</th>
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<th>Direction</th>
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<tbody>
<tr>
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<td>Blow</td>
<td>111° / 1106 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:26:00 PDT</td>
<td>Blow</td>
<td>130° / 913 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:28:00 PDT</td>
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<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:29:00 PDT</td>
<td>Body</td>
<td>184° / 330 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:32:00 PDT</td>
<td>Body</td>
<td>222° / 447 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:34:00 PDT</td>
<td>Body</td>
<td>237° / 528 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:37:00 PDT</td>
<td>Body</td>
<td>282° / 827 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:39:00 PDT</td>
<td>Blow</td>
<td>292° / 1106 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:51:00 PDT</td>
<td>Blow</td>
<td>101° / 3088 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:54:00 PDT</td>
<td>Blow</td>
<td>102° / 2260 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:56:00 PDT</td>
<td>Blow</td>
<td>103° / 2260 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:58:00 PDT</td>
<td>Blow</td>
<td>103° / 2749 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>13:09:00 PDT</td>
<td>Blow</td>
<td>106° / 1483 m</td>
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<td>109° / 1106 m</td>
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</tr>
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<td>Slow travel</td>
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<tr>
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<td>13:23:00 PDT</td>
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<td>134° / 508 m</td>
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<td>West</td>
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<td>13:25:00 PDT</td>
<td>Blow</td>
<td>183° / 356 m</td>
<td>West</td>
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### Daily Totals

<table>
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<th>Time</th>
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<th>Holly / Buoys</th>
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#### Sighting Number 13

**Fair - 1**

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#### Sighting Number 17

**Fair - 2**

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### Apr 20

**Total 4 Calves 1**

**Er Gray whale (northbound)**

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**Images:** none

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*Report Date: 2016.11.21*
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

#### Daily Totals

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#### Sighting Number

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Daily Totals

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<td>whales were lined up as if racing - surfacing often - traveling unusually fast for cow/calf pair - went by Sands w/o</td>
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<td>Position: 277˚ / 574 m</td>
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Report Date 2016. 11 . 21
### Daily Totals

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<th>Sighting Number</th>
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<td>Er Total 6 — 3 Calves at sighting</td>
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</tbody>
</table>

#### Images: 5529 - 5694

- **Position:** 103˚ / 2260 m  Dir: West;  Behavior: Slow travel
- **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**

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<th>Behavior</th>
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- **probably turned in kelp**

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- **Body**

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- **mini breach**

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- **Rolling**

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<td>Body</td>
</tr>
<tr>
<td>20:55 GMT</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>20:57 GMT</td>
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</table>

- **Rolling**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
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<tbody>
<tr>
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<table>
<thead>
<tr>
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<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:02:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:02 GMT</td>
<td></td>
</tr>
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</table>

- **Rolling**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
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<tbody>
<tr>
<td>14:05:00 PDT</td>
<td>Body</td>
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<td>21:05 GMT</td>
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</tr>
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</table>

- **Slow travel**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:09:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:09 GMT</td>
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</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:12:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:12 GMT</td>
<td></td>
</tr>
</tbody>
</table>

- **Slow travel**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:14:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:14 GMT</td>
<td></td>
</tr>
</tbody>
</table>

- **Slow travel**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:16:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:16 GMT</td>
<td></td>
</tr>
</tbody>
</table>

- **Pairs separating a bit**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:20:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:20 GMT</td>
<td></td>
</tr>
</tbody>
</table>

- **Slow travel**

<table>
<thead>
<tr>
<th>Time</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:22:00 PDT</td>
<td>Body</td>
</tr>
<tr>
<td>21:22 GMT</td>
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</tr>
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### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>CtiTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:26:00 PDT</td>
<td>Body</td>
<td>21:26 GMT</td>
<td>1st pair</td>
</tr>
<tr>
<td>14:32:00 PDT</td>
<td>Body</td>
<td>21:32 GMT</td>
<td></td>
</tr>
<tr>
<td>14:38:00 PDT</td>
<td>Blow</td>
<td>21:38 GMT</td>
<td>Inside / Inside</td>
</tr>
<tr>
<td>14:42:00 PDT</td>
<td>ni / Blow</td>
<td>21:42 GMT</td>
<td></td>
</tr>
<tr>
<td>14:48:00 PDT</td>
<td>Blow</td>
<td>21:48 GMT</td>
<td></td>
</tr>
<tr>
<td>14:51:00 PDT</td>
<td>Blow</td>
<td>21:51 GMT</td>
<td></td>
</tr>
<tr>
<td>14:55:00 PDT</td>
<td>Blow</td>
<td>21:55 GMT</td>
<td></td>
</tr>
<tr>
<td>14:58:00 PDT</td>
<td>Blow</td>
<td>21:58 GMT</td>
<td></td>
</tr>
<tr>
<td>15:03:00 PDT</td>
<td>Blow</td>
<td>22:03 GMT</td>
<td>Inside / Inside</td>
</tr>
</tbody>
</table>

### Sighting Number

**Total 2 — 1 Calf at sighting**

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>CtiTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:04:00 PDT</td>
<td>Blow</td>
<td>17:04 GMT</td>
<td></td>
</tr>
<tr>
<td>10:08:00 PDT</td>
<td>Blow</td>
<td>17:08 GMT</td>
<td></td>
</tr>
<tr>
<td>10:10:00 PDT</td>
<td>Blow</td>
<td>17:10 GMT</td>
<td></td>
</tr>
<tr>
<td>10:11:00 PDT</td>
<td>Body</td>
<td>17:11 GMT</td>
<td></td>
</tr>
</tbody>
</table>

**Total 2 — 1 Calf at sighting**

**Apr 24**  
**Total 5 Calves 2**  
**Day 77 of 105**

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>CtiTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:44:00 PDT</td>
<td>ni / Blow</td>
<td>16:44 GMT</td>
<td></td>
</tr>
<tr>
<td>9:50:00 PDT</td>
<td>Blow</td>
<td>16:50 GMT</td>
<td></td>
</tr>
<tr>
<td>9:57:00 PDT</td>
<td>Blow</td>
<td>16:57 GMT</td>
<td></td>
</tr>
<tr>
<td>10:02:00 PDT</td>
<td>Blow</td>
<td>17:02 GMT</td>
<td></td>
</tr>
<tr>
<td>10:04:00 PDT</td>
<td>Blow</td>
<td>17:04 GMT</td>
<td></td>
</tr>
<tr>
<td>10:08:00 PDT</td>
<td>Blow</td>
<td>17:08 GMT</td>
<td></td>
</tr>
<tr>
<td>10:10:00 PDT</td>
<td>Blow</td>
<td>17:10 GMT</td>
<td></td>
</tr>
<tr>
<td>10:11:00 PDT</td>
<td>Body</td>
<td>17:11 GMT</td>
<td></td>
</tr>
</tbody>
</table>

**Total 2 — 1 Calf at sighting**

**Images: 5529 - 5694**  

**Images: 5744 - 5809**

---

*2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effect*
### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Duration</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:13:00 PDT</td>
<td>Blow</td>
<td>262° / 447 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:14:00 PDT</td>
<td>Blow</td>
<td>270° / 539 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:15:00 PDT</td>
<td>Blow</td>
<td>278° / 539 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:19:00 PDT</td>
<td>Body</td>
<td>295° / 678 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:22:00 PDT</td>
<td>Blow</td>
<td>308° / ni</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:26:00 PDT</td>
<td>Blow</td>
<td>295° / 827 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:32:00 PDT</td>
<td>ni / Body</td>
<td>189° / 356 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:33:00 PDT</td>
<td>Blow</td>
<td>223° / 338 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:35:00 PDT</td>
<td>Body</td>
<td>252° / 455 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>10:41:00 PDT</td>
<td>Blow</td>
<td>297° / 946 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

### Sighting Number

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Event Duration</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>04</td>
<td>Good - 2</td>
<td>ni / Blow</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
<tr>
<td>05</td>
<td>Good - 2</td>
<td>ni / ni</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

### Apr 25

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Event Duration</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>05</td>
<td>Fair - 3</td>
<td>102° / 2260 m</td>
<td>West;</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

**Total 7 Calves**

**Day 78 of 105**

**Er Gray whale (northbound)**

### Images: 5811 - 5833

**Total 5 — 2 Calves at sighting**

**Total 1 — 0 Calves at sighting**

**Total 2 — 1 Calf at sighting**
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:58 GMT</td>
<td>Blow</td>
<td>102° / 2260 m</td>
<td>West</td>
<td>Slow travel traveling with dolphins</td>
</tr>
<tr>
<td>17:04 GMT</td>
<td>Blow</td>
<td>102° / 1674 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:08 GMT</td>
<td>Blow</td>
<td>107° / 1483 m</td>
<td>West</td>
<td>Slow travel ● Rolling</td>
</tr>
<tr>
<td>17:14 GMT</td>
<td>Blow</td>
<td>103° / 1106 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:17 GMT</td>
<td>Blow</td>
<td>104° / 946 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:18 GMT</td>
<td>Blow</td>
<td>105° / 778 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:19 GMT</td>
<td>Blow</td>
<td>106° / 778 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:20 GMT</td>
<td>Blow</td>
<td>110° / 778 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:21 GMT</td>
<td>Blow</td>
<td>107° / 778 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:23 GMT</td>
<td>Blow</td>
<td>109° / 696 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:24 GMT</td>
<td>Blow</td>
<td>111° / 696 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:26 GMT</td>
<td>Blow</td>
<td>120° / 489 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:28 GMT</td>
<td>Blow</td>
<td>120° / 455 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:29 GMT</td>
<td>Blow</td>
<td>123° / 440 m</td>
<td>West</td>
<td>Slow travel ● Rolling</td>
</tr>
<tr>
<td>17:33 GMT</td>
<td>Blow</td>
<td>138° / 388 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:33 GMT</td>
<td>Blow</td>
<td>150° / 388 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:36 GMT</td>
<td>Blow</td>
<td>141° / 382 m</td>
<td>East</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:38 GMT</td>
<td>Blow</td>
<td>147° / 412 m</td>
<td>East</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:39 GMT</td>
<td>Blow</td>
<td>155° / 400 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:42 GMT</td>
<td>Blow</td>
<td>177° / 356 m</td>
<td>West</td>
<td>Slow travel ● Rolling</td>
</tr>
<tr>
<td>17:44 GMT</td>
<td>Blow</td>
<td>198° / 307 m</td>
<td>West</td>
<td>Slow travel ● Bicycle ● Spyhop</td>
</tr>
<tr>
<td>17:45 GMT</td>
<td>Blow</td>
<td>228° / 338 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>17:48 GMT</td>
<td>Blow</td>
<td>257° / 356 m</td>
<td>West</td>
<td>Slow travel ● Spyhop</td>
</tr>
</tbody>
</table>
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Time</th>
<th>Cur / Sighting Details</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:50:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>17:50 GMT</td>
<td>Position: 257° / 412 m</td>
<td>Dir: West; Behavior: Slow travel ● Rolling</td>
</tr>
<tr>
<td>10:51:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>17:51 GMT</td>
<td>Position: 265° / 471 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>10:54:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>17:54 GMT</td>
<td>Position: 278° / 550 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>10:55:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>17:55 GMT</td>
<td>Position: 283° / 550 m</td>
<td>Dir: West; Behavior: Slow travel Inside / Inside</td>
</tr>
</tbody>
</table>

**Sighting Number** 09

Fair - 3

**Total 2 — 1 Calf at sighting**

<table>
<thead>
<tr>
<th>Time</th>
<th>Cur / Sighting Details</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:30 GMT</td>
<td>Position: 101° / 2749 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:36:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:36 GMT</td>
<td>Position: 104° / 2260 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:37:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:37 GMT</td>
<td>Position: 105° / 1922 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:39:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:39 GMT</td>
<td>Position: 104° / 1922 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:44:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:44 GMT</td>
<td>Position: 110° / 1483 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>12:46:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td>19:46 GMT</td>
<td>Position: 111° / 1403 m</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
</tbody>
</table>

**Increase / Inside**

**Total 2 — 1 Calf at sighting**

April 26

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

Report Date 2016.11.21
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Daily Totals</th>
<th>Quality-Beaufort</th>
<th>Cuetip / Saw</th>
<th>Holly / Buoyos</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sighting Number</strong></td>
<td><strong>Time</strong></td>
<td><strong>Notes</strong></td>
<td><strong>Notes</strong></td>
</tr>
<tr>
<td><strong>02</strong></td>
<td><strong>9:35:00 PDT</strong></td>
<td>Tooth - 1 Calf at sighting</td>
<td><strong>Fair - 3</strong></td>
</tr>
</tbody>
</table>
|                       | 16:35-GMT        | didn't see very much but enough - wind + chop a factor - seemed to be “traveling” - whales very close - calf tucked on flank
|                       | 9:44:00 PDT      | Position: 221° / 489 m Dir: West; Behavior: Slow travel ||
|                       | 16:44-GMT        | calf blow    |
|                       | 9:45:00 PDT      | Position: 226° / 471 m Dir: West; Behavior: Slow travel |
|                       | 16:45-GMT        | cow + calf blow + body - calf behind cow |
| **Sighting Number**   | **Time**         | **Notes**    | **Notes**      |
| **03**                | **9:44:00 PDT**  | Tooth - 1 Calf at sighting | **Fair - 4** |
|                       | 16:44-GMT        | Position: 221° / 489 m Dir: West; Behavior: Slow travel |
|                       | 9:45:00 PDT      | cow + calf blow + body - calf behind cow |
|                       | 16:45-GMT        | cow + calf blow + body - calf behind cow |
| **Sighting Number**   | **Time**         | **Notes**    | **Notes**      |
| **04**                | **10:00:00 PDT** | Tooth - 1 — 0 Calves at sighting | **Fair - 4** |
|                       | 17:00-GMT        | saw off Isla Vista kelp - saw calf later on other side - later head popped up |
|                       | 10:07:00 PDT     | Position: 149° / 388 m Dir: West; Behavior: Slow travel |
|                       | 17:07-GMT        | Body         |
|                       | 10:11:00 PDT     | Position: 219° / 314 m Dir: West; Behavior: Slow travel |
|                       | 17:11-GMT        | Blow         |
| **Sighting Number**   | **Time**         | **Notes**    | **Notes**      |
| **05**                | **10:00:00 PDT** | Tooth - 1 — 0 Calves at sighting | **Fair - 4** |
|                       | 17:00-GMT        | saw off Isla Vista kelp - saw calf later on other side - later head popped up |
|                       | 10:07:00 PDT     | Position: 149° / 388 m Dir: West; Behavior: Slow travel |
|                       | 17:07-GMT        | Body         |
|                       | 10:11:00 PDT     | Position: 219° / 314 m Dir: West; Behavior: Slow travel |
|                       | 17:11-GMT        | Blow         |
| **Sighting Number**   | **Time**         | **Notes**    | **Notes**      |
| **06**                | **10:00:00 PDT** | Tooth - 1 — 0 Calves at sighting | **Fair - 4** |
|                       | 17:00-GMT        | saw off Isla Vista kelp - saw calf later on other side - later head popped up |
|                       | 10:07:00 PDT     | Position: 149° / 388 m Dir: West; Behavior: Slow travel |
|                       | 17:07-GMT        | Body         |
|                       | 10:11:00 PDT     | Position: 219° / 314 m Dir: West; Behavior: Slow travel |
|                       | 17:11-GMT        | Blow         |
| **Sighting Number**   | **Time**         | **Notes**    | **Notes**      |
| **07**                | **10:00:00 PDT** | Tooth - 1 — 0 Calves at sighting | **Fair - 4** |
|                       | 17:00-GMT        | saw off Isla Vista kelp - saw calf later on other side - later head popped up |
|                       | 10:07:00 PDT     | Position: 149° / 388 m Dir: West; Behavior: Slow travel |
|                       | 17:07-GMT        | Body         |
|                       | 10:11:00 PDT     | Position: 219° / 314 m Dir: West; Behavior: Slow travel |
|                       | 17:11-GMT        | Blow         |
| **Sighting Number**   | **Time**         | **Notes**    | **Notes**      |
| **08**                | **10:00:00 PDT** | Tooth - 1 — 0 Calves at sighting | **Fair - 4** |
|                       | 17:00-GMT        | saw off Isla Vista kelp - saw calf later on other side - later head popped up |
|                       | 10:07:00 PDT     | Position: 149° / 388 m Dir: West; Behavior: Slow travel |
|                       | 17:07-GMT        | Body         |
|                       | 10:11:00 PDT     | Position: 219° / 314 m Dir: West; Behavior: Slow travel |
|                       | 17:11-GMT        | Blow         |

Report Date 2016.11.21
Page Number 72
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
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<td>214° / 338 m</td>
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Images: 6262 - 6393

April Total 8 Calves 4

Day 80 of 105

Images: 6519 - 6573

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

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Images @ Campus Pt with VRB in waves at Sands/Ellwood
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

**Daily Totals**

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<th>Time</th>
<th>Quality-Beaufort</th>
<th>Cuitip / Saw</th>
<th>Holly / Buoys</th>
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#### Sighting Number 08 Good - 3

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#### Sighting Number 09 Fair - 3

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Daily Totals

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Sighting Number

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

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Apr 29
Day 82 of 105

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<td></td>
</tr>
<tr>
<td>9:31:00 PDT</td>
<td>ni / Blow</td>
<td>Position: 104° / 827 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>16:31-GMT</td>
<td>possible nursing? - many surfaces at Counter Point - calf meandered east before continuing west - calf rolling while meandering - possible feeding in kelp by Isla Vista</td>
<td></td>
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<td>Blow</td>
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<td>Blow</td>
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<tr>
<td>16:39-GMT</td>
<td>heading west again</td>
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<td>Blow</td>
<td>Position: 150° / 314 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>9:43:00 PDT</td>
<td>Blow</td>
<td>Position: 154° / 253 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>9:45:00 PDT</td>
<td>Body</td>
<td>Position: 177° / 280 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>9:53:00 PDT</td>
<td>Blow</td>
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<td>Images: 7051 - 7125</td>
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<td></td>
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<tr>
<td>9:54:00 PDT</td>
<td>Blow</td>
<td>Inside / Inside</td>
</tr>
<tr>
<td>16:54-GMT</td>
<td>Position: 281° / 550 m Dir: West; Behavior: Slow travel</td>
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<table>
<thead>
<tr>
<th>Images: 7133 - 7163</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
</tr>
<tr>
<td>Er Total 2 — 1 Calf at sighting</td>
</tr>
<tr>
<td>10:13:00 PDT</td>
</tr>
<tr>
<td>17:13-GMT</td>
</tr>
<tr>
<td>very close - calf seemed small - very little surfacing at Counter Point - many blows by calf - stuck its head out, but mainly low profile</td>
</tr>
<tr>
<td>10:18:00 PDT</td>
</tr>
<tr>
<td>10:22:00 PDT</td>
</tr>
<tr>
<td>10:26:00 PDT</td>
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</table>
**2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort**

<table>
<thead>
<tr>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>Cut Tip / Saw</th>
<th>Holly / Buoys</th>
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<td>Position: 149° / 412 m Dir: West; Behavior: Slow travel</td>
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<td>10:45:00 PDT</td>
<td>17:45 GMT</td>
<td>Body</td>
<td>Position: 173° / 388 m Dir: West; Behavior: Slow travel</td>
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<td>Blow</td>
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</tr>
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<td>11:26:00 PDT</td>
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<td>Blow</td>
<td>Position: 114° / 661 m Dir: West; Behavior: Slow travel</td>
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<td>Blow</td>
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<tr>
<td>11:39:00 PDT</td>
<td>18:39 GMT</td>
<td>Blow</td>
<td>Position: 252° / 412 m Dir: West; Behavior: Slow travel</td>
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**Images: 7133 - 7163**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Fair - 3</th>
<th><strong>Er Total 2 — 1 Calf at sighting</strong></th>
</tr>
</thead>
</table>

**Apr 30**

**Total 10 Calves**

**Day 83 of 105**

**Er Gray whale (northbound)**

Report Date 2016.11.21

Page Number 77
## 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

### Quality-Beaufort

<table>
<thead>
<tr>
<th>Time</th>
<th>Sighting Number</th>
<th>Jess / Body</th>
<th>Latitude / Longitude</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
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<tbody>
<tr>
<td>12:00:00 PDT</td>
<td>14</td>
<td>ni / Body</td>
<td>160˚ / 600 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:02:00 PDT</td>
<td>14</td>
<td>Body</td>
<td>223˚ / 489 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:04:00 PDT</td>
<td>14</td>
<td>Body</td>
<td>242˚ / 489 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:05:00 PDT</td>
<td>14</td>
<td>Body</td>
<td>253˚ / 539 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:08:00 PDT</td>
<td>14</td>
<td>Body</td>
<td>256˚ / 600 m</td>
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<td>14</td>
<td>Body</td>
<td>271˚ / 735 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:45:00 PDT</td>
<td>15</td>
<td>5D / Body</td>
<td>145˚ / 678 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:51:00 PDT</td>
<td>15</td>
<td>Body</td>
<td>209˚ / 539 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>12:54:00 PDT</td>
<td>15</td>
<td>Body</td>
<td>243˚ / 600 m</td>
<td>West</td>
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</tr>
<tr>
<td>12:55:00 PDT</td>
<td>15</td>
<td>Body</td>
<td>252˚ / 600 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:28:00 PDT</td>
<td>16</td>
<td>ni / Body</td>
<td>115˚ / 913 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:33:00 PDT</td>
<td>16</td>
<td>Body</td>
<td>141˚ / 539 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:37:00 PDT</td>
<td>16</td>
<td>Body</td>
<td>179˚ / 356 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:41:00 PDT</td>
<td>16</td>
<td>Blow</td>
<td>248˚ / 377 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:42:00 PDT</td>
<td>16</td>
<td>Blow</td>
<td>251˚ / 412 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>14:45:00 PDT</td>
<td>16</td>
<td>Blow</td>
<td>277˚ / 661 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

### Images: 7243 - 7255

- **Sighting Number 14**
  - Total 2 — 0 Calves at sighting
  - 11:55:00 PDT: ni / Body, Position: 160˚ / 600 m, Dir: West, Behavior: Slow travel
  - 12:00:00 PDT: Blow, Position: 206˚ / 489 m, Dir: West, Behavior: Slow travel
  - 12:02:00 PDT: Body, Position: 223˚ / 489 m, Dir: West, Behavior: Slow travel
  - 12:04:00 PDT: Body, Position: 242˚ / 489 m, Dir: West, Behavior: Slow travel
  - 12:05:00 PDT: Body, Position: 253˚ / 539 m, Dir: West, Behavior: Slow travel
  - 12:08:00 PDT: Body, Position: 256˚ / 600 m, Dir: West, Behavior: Slow travel
  - 12:11:00 PDT: Body, Position: 271˚ / 735 m, Dir: West, Behavior: Slow travel
  - **did not surface again - likely went inside buoys**

### Images: 7256 - 7284

- **Sighting Number 15**
  - Total 2 — 1 Calf at sighting
  - 12:45:00 PDT: 5D / Body, Position: 145˚ / 678 m, Dir: West, Behavior: Slow travel
  - **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
  - 12:51:00 PDT: Body, Position: 209˚ / 539 m, Dir: West, Behavior: Slow travel
  - 12:54:00 PDT: Body, Position: 243˚ / 600 m, Dir: West, Behavior: Slow travel
  - 12:55:00 PDT: Body, Position: 252˚ / 600 m, Dir: West, Behavior: Slow travel

### Images: 7289-7344

- **Sighting Number 16**
  - Total 2 — 1 Calf at sighting
  - 14:28:00 PDT: ni / Body, Position: 115˚ / 913 m, Dir: West, Behavior: Slow travel
  - **calf has white spot on right flank - mom surfacing more than calf 0 sighting began with no blows, then started blowing @ + past Counter Pt**
  - 14:33:00 PDT: Body, Position: 141˚ / 539 m, Dir: West, Behavior: Slow travel
  - 14:37:00 PDT: Body, Position: 179˚ / 356 m, Dir: West, Behavior: Slow travel
  - 14:41:00 PDT: Blow, Position: 248˚ / 377 m, Dir: West, Behavior: Slow travel
  - 14:42:00 PDT: Blow, Position: 251˚ / 412 m, Dir: West, Behavior: Slow travel
  - 14:45:00 PDT: Blow, Position: 277˚ / 661 m, Dir: West, Behavior: Slow travel
Daily Totals

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Date</th>
<th>Time</th>
<th>Quality-Beaufort</th>
<th>CetTip / Saw</th>
<th>Holly / Buoys</th>
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<td>Fair - 0</td>
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Images: 7347-7490

17

14:45:00 PDT: Position: 123° / 600 m Dir: West; Behavior: Slow travel

14:47:00 PDT: Position: 146° / 314 m Dir: West; Behavior: Slow travel

circling around in kelp

14:52:00 PDT: Position: 144° / 388 m Dir: West; Behavior: Slow travel

possibly nursing

14:57:00 PDT: Position: 145° / 356 m Dir: North; Behavior: Slow travel

14:59:00 PDT: Position: 157° / 314 m Dir: West; Behavior: Slow travel

15:02:00 PDT: Position: 208° / 314 m Dir: West; Behavior: Slow travel

through oil

15:03:00 PDT: Position: 229° / 314 m Dir: West; Behavior: Slow travel

15:05:00 PDT: Position: 253° / 440 m Dir: West; Behavior: Slow travel

15:12:00 PDT: Position: 302° / 827 m Dir: West; Behavior: Slow travel

Inside / Inside

Images: 7492-7566

19

15:36:00 PDT: Position: 112° / 1020 m Dir: West; Behavior: Slow travel
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

15:38:00 PDT: Position: 117° / 696 m Dir: West; Behavior: Slow travel

15:41:00 PDT: Position: 131° / 489 m Dir: West; Behavior: Slow travel

15:42:00 PDT: Position: 145° / 455 m Dir: West; Behavior: Slow travel

15:44:00 PDT: Position: 174° / 412 m Dir: West; Behavior: Slow travel ● Fast travel

15:45:00 PDT: Position: 192° / 356 m Dir: West; Behavior: Slow travel

15:47:00 PDT: Position: 215° / 388 m Dir: West; Behavior: Slow travel
### May 01

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Behavior</th>
<th>Notes</th>
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<tbody>
<tr>
<td>15:50:00 PDT</td>
<td>Body</td>
<td>248° / 377 m</td>
<td>East; Slow travel</td>
<td>cow going back for calf</td>
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<td>15:51:00 PDT</td>
<td>Blow</td>
<td>253° / 412 m</td>
<td>East; Slow travel</td>
<td></td>
</tr>
<tr>
<td>15:54:00 PDT</td>
<td>Body</td>
<td>276° / 550 m</td>
<td>West; Slow travel</td>
<td>Inside / Inside</td>
</tr>
</tbody>
</table>

#### Er Gray whale (northbound)

May 01  Total 10 Calves 5

- **Day 84 of 105**
- **Total 4 — 2 Calves at sighting**
- **Images: 7583-7750**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Behavior</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:05:00 PDT</td>
<td>ni / Blow</td>
<td>99° / 3088 m</td>
<td>West; Slow travel</td>
<td>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</td>
</tr>
<tr>
<td>9:11:00 PDT</td>
<td>Blow</td>
<td>99° / 2260 m</td>
<td>West; Slow travel</td>
<td>multiple blows, bodies visible - animals some distance from each other N-&gt;S</td>
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<td>9:15:00 PDT</td>
<td>Blow</td>
<td>102° / 1922 m</td>
<td>West; Slow travel</td>
<td>saw all 3 bodies, possibly 4 animals?</td>
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<td>9:18:00 PDT</td>
<td>Blow</td>
<td>104° / 1674 m</td>
<td>West; Slow travel</td>
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<td>9:23:00 PDT</td>
<td>ni</td>
<td>107° / 1483 m</td>
<td>West; Slow travel</td>
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<tr>
<td>9:27:00 PDT</td>
<td>Blow</td>
<td>108° / 1331 m</td>
<td>West; Slow travel</td>
<td>seem to be playful</td>
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<td>110° / 913 m</td>
<td>West; Slow travel</td>
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<td>9:35:00 PDT</td>
<td>Blow</td>
<td>113° / 600 m</td>
<td>West; Slow travel</td>
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<tr>
<td>9:38:00 PDT</td>
<td>Blow</td>
<td>127° / 489 m</td>
<td>West; Slow travel</td>
<td></td>
</tr>
<tr>
<td>9:41:00 PDT</td>
<td>Body</td>
<td>154° / 412 m</td>
<td>West; Slow travel</td>
<td>confirmed 2 pair</td>
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<tr>
<td>9:45:00 PDT</td>
<td>Body</td>
<td>193° / 296 m</td>
<td>West; Slow travel</td>
<td></td>
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<tr>
<td>9:46:00 PDT</td>
<td>Body</td>
<td>241° / 334 m</td>
<td>West; Slow travel</td>
<td></td>
</tr>
<tr>
<td>9:47:00 PDT</td>
<td>Body</td>
<td>249° / 334 m</td>
<td>West; Slow travel</td>
<td>all 4 animals together</td>
</tr>
</tbody>
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**Images: 7583-7750**
### Daily Totals

**Sighting Number**

<table>
<thead>
<tr>
<th>Time</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:45:00 PDT</td>
<td>169˚ / 489 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>11:50:00 PDT</td>
<td>211˚ / 366 m</td>
<td>West</td>
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<tr>
<td>12:38:00 PDT</td>
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**Notes:**
- Calf almost fluked
- Images: boat images: 7888-7889, whales: 7822-7897

**Quality-Beaufort Time**

- Fair - 0

**CueTip / Saw**

- Total 2 — 1 Calf at sighting

**Holly / Buoys**

- Images: 7794-7818
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### Daily Totals

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<th>Dir</th>
<th>Behavior</th>
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<tr>
<td>13:10:00 PDT</td>
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<td>143° / 3088 m</td>
<td>West</td>
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<td>235° / 827 m</td>
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<td>246° / 778 m</td>
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<td>11</td>
<td>258° / 1106 m</td>
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<td>Inside / Outside</td>
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<td>144° / 629 m</td>
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<td>291° / 883 m</td>
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<td>13:37:00 PDT</td>
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<tr>
<td>13:44:00 PDT</td>
<td>14</td>
<td>229° / 314 m</td>
<td>West</td>
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</tr>
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</table>

**Notes:**
- 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.
### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13:46:00 PDT</td>
<td>Blow</td>
<td>Position: 241˚ / 412 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>13:49:00 PDT</td>
<td>Blow</td>
<td>Position: 251˚ / 883 m Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>13:51:00 PDT</td>
<td>Inside</td>
<td>Position: 265˚ / 600 m Dir: West; Behavior: Slow travel</td>
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<td>14:57:00 PDT</td>
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<td>Position: 125˚ / m Dir: West; Behavior: Slow travel</td>
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<td>Body</td>
<td>Position: 153˚ / 412 m Dir: West; Behavior: Slow travel</td>
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<td>Body</td>
<td>Position: 177˚ / 330 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 210˚ / 287 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 242˚ / 338 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 269˚ / 489 m Dir: West; Behavior: Slow travel</td>
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<td>Blow</td>
<td>Position: 294˚ / 696 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 102˚ / 2749 m Dir: West; Behavior: Slow travel</td>
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<td>15:07:00 PDT</td>
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<td>Position: 105˚ / 2260 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 109˚ / 1674 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 109˚ / 1483 m Dir: West; Behavior: Slow travel</td>
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<td>15:20:00 PDT</td>
<td>Blow</td>
<td>Position: 110˚ / 1106 m Dir: West; Behavior: Slow travel</td>
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### Sighting Number

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<td>Body</td>
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<td>109° / 1106 m</td>
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### Daily Totals

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<th>Direction</th>
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<td>Slow travel</td>
</tr>
<tr>
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</tr>
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<td>17:25:00 PDT</td>
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<td>174˚ / 356 m</td>
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<td>197˚ / 356 m</td>
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<td>254˚ / m</td>
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<td>282˚ / 489 m</td>
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**May 03**

<table>
<thead>
<tr>
<th>Day of 105</th>
<th>Total 13 Calves 6</th>
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</table>

**Images:** 8355-8358

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

- **Fair - 1**
  - **Er Total 2 — 1 Calf at sighting**
  - **8:43:00 PDT**  
    - Position: 184˚ / 440 m  
    - Dir: West  
    - Behavior: Slow travel  
    - *saw east of Point as we were setting up - surrounded by Tts - 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*

- **8:45:00 PDT**  
  - Body  
  - Position: 225˚ / 471 m  
  - Dir: West  
  - Behavior: Slow travel

- **8:47:00 PDT**  
  - Blow  
  - Position: 243˚ / 508 m  
  - Dir: West  
  - Behavior: Slow travel
<table>
<thead>
<tr>
<th>Time</th>
<th>Holly / Buoys</th>
<th>Quality-Beaufort</th>
<th>Sighting Number</th>
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<tr>
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<td>ni / Body</td>
<td>ni / Body</td>
<td>07</td>
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<tr>
<td>17:47 GMT</td>
<td>Position: 98° / 3088 m Dir: West; Behavior: Slow travel</td>
<td>first seen right outside Campus Pt - long down times - spent longtime in Isla Vista kelp</td>
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<td>Position: 95° / 2260 m Dir: West; Behavior: Slow travel</td>
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<td>Fair - 1</td>
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<td>Position: 102° / 1922 m Dir: West; Behavior: Slow travel</td>
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<td>11:18:00 PDT</td>
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<tr>
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<td>Position: 100° / 778 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>Blow</td>
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<td>Fair - 1</td>
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<td>Position: 104° / 778 m Dir: West; Behavior: Slow travel • Spyhop head of calf</td>
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<td>Fair - 1</td>
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<td>18:51 GMT</td>
<td>Position: 300° / 661 m Dir: West; Behavior: Slow travel Inside / Inside</td>
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<td>fair - 1</td>
<td>Fair - 1</td>
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<tr>
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<td>Position: 151° / 489 m Dir: West; Behavior: Slow travel 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</td>
<td></td>
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<td>13:17:00 PDT</td>
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<td>13:17:00 PDT</td>
<td>fair - 1</td>
<td>Fair - 1</td>
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<td>Position: 161° / 471 m Dir: West; Behavior: Slow travel</td>
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### Daily Totals

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<tr>
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<td>291˚ / 1020 m</td>
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<td>100˚ / 1922 m</td>
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<td>Slow travel</td>
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<td>100˚ / 1922 m</td>
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<tr>
<td>13:57:00 PDT</td>
<td>Body</td>
<td>105˚ / 1483 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
</tbody>
</table>

**Sighting Number** 16

Fair - 1

Er Total 5 — 2 Calves at sighting

---

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

---

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

<table>
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<tr>
<th>Time</th>
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</tr>
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<tbody>
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<td>13:59:00 PDT</td>
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<td>West</td>
<td>Slow travel</td>
</tr>
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<td>West</td>
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</tr>
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<td>102˚ / 1403 m</td>
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<td>Slow travel</td>
</tr>
<tr>
<td>14:02:00 PDT</td>
<td>Blow</td>
<td>104˚ / 1403 m</td>
<td>West</td>
<td>Slow travel • Fluke</td>
</tr>
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<td>101˚ / 1403 m</td>
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<tr>
<td>14:06:00 PDT</td>
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<td>96˚ / 1483 m</td>
<td>West</td>
<td>Slow travel • Pec slap</td>
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<td>Blow</td>
<td>105˚ / 1106 m</td>
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<td>Body</td>
<td>108˚ / 778 m</td>
<td>South</td>
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<tr>
<td>14:14:00 PDT</td>
<td>Body</td>
<td>115˚ / 600 m</td>
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<td>14:15:00 PDT</td>
<td>Body</td>
<td>117˚ / 447 m</td>
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<tr>
<td>14:16:00 PDT</td>
<td>Body</td>
<td>125˚ / 489 m</td>
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<tr>
<td>14:18:00 PDT</td>
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<td>153˚ / 356 m</td>
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<td>14:20:00 PDT</td>
<td>Blow</td>
<td>167˚ / 307 m</td>
<td>West</td>
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</tr>
<tr>
<td>14:24:00 PDT</td>
<td>Body</td>
<td>201˚ / 307 m</td>
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<td>14:33:00 PDT</td>
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<td>280˚ / 600 m</td>
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<td>14:34:00 PDT</td>
<td>Body</td>
<td>279˚ / 629 m</td>
<td>no direction</td>
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</tr>
</tbody>
</table>

**Note:**
- dolphin to left of whale
- Body near kayak V#19
- Body with dolphins
- Body near V#17, following
- Body separating from V#17
- One or two still by V#18 around 120/2.7
- Hanging around buoys
<table>
<thead>
<tr>
<th>Time</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
</table>
| 14:34:00 PDT  | 281° / 600 m | no direction | Slow travel  
**hanging around buoys** |
| 14:36:00 PDT  | 288° / 735 m | West     | Slow travel |
| 14:37:00 PDT  | 284° / 574 m | West     | Slow travel |
| 14:38:00 PDT  | 282° / 600 m | no direction | Slow travel  
**enjoying diving near buoys** |
| 14:41:00 PDT  | 279° / 574 m | East     | Slow travel |
| 14:43:00 PDT  | 278° / 253 m | East     | Slow travel  
**waving pec, head, "sharking"** |
| 14:45:00 PDT  | 279° / 489 m | no direction | Slow travel  
**pec again** |
| 14:46:00 PDT  | 280° / 489 m | no direction | Slow travel |
| 14:47:00 PDT  | 280° / 550 m | East     | Slow travel  
**spyhop • rolling** |
| 14:48:00 PDT  | 278° / 550 m | East     | Slow travel  
**being watched by a surfer** |
| 14:50:00 PDT  | 275° / 574 m | no direction | Slow travel  
**"sharking"? • saw pec, fluke** |
| 14:53:00 PDT  | 274° / 489 m | East     | Slow travel  
**saw pec** |
| 14:55:00 PDT  | 275° / 471 m | no direction | Slow travel  
**diving** |
| 14:57:00 PDT  | 274° / 489 m | East     | Slow travel  
**saw head** |
| 14:58:00 PDT  | 272° / 528 m | West     | Slow travel |
| 14:59:00 PDT  | 230° / 600 m | West     | Slow travel |
| 15:01:00 PDT  | 281° / 735 m | West     | Slow travel  
**Inside / Inside** |
<table>
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<tr>
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<td>Total 2 — 1 Calf at sighting</td>
<td>122˚ / 1283 m</td>
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<td>Slow travel</td>
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<td>Blow</td>
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<td>Blow</td>
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<td>16:24:00 PDT</td>
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<td>261˚ / 471 m</td>
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<tr>
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<td>Slow travel • Breach near buoys</td>
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<tr>
<td>16:30:00 PDT</td>
<td>Body</td>
<td>260˚ / 913 m</td>
<td>West</td>
<td>Slow travel</td>
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<tr>
<td>16:30:00 PDT</td>
<td>Inside / Inside</td>
<td>289˚ / 883 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
<td>9:26:00 PDT</td>
<td>Poor - 1</td>
<td>172˚ / 508 m</td>
<td>West</td>
<td>Slow travel</td>
</tr>
<tr>
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<td>Body</td>
<td>171˚ / 508 m</td>
<td>West</td>
<td>Slow travel</td>
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<td>9:30:00 PDT</td>
<td>Body</td>
<td>184˚ / 412 m</td>
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Images: 8812-8842

May 04  
Total 24  
Calves 12  
Day 87 of 105  

Images: 8855-8911
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<th>Sighting Number</th>
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<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
<th>Details</th>
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<td>Position: 126° / 883 m Dir: West; Behavior: Slow travel no calf sheet, disappeared before buoys</td>
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<td>Position: 179° / 471 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 249° / 508 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 283° / 600 m Dir: West; Behavior: Slow travel</td>
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<td>Position: 118° / 1922 m Dir: West; Behavior: Slow travel images includes vessels UCSB + Tt + pelicans</td>
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<td>Position: 117° / 1674 m Dir: West; Behavior: Slow travel images includes vessels UCSB + Tt + pelicans</td>
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<td>Position: 125° / 1483 m Dir: West; Behavior: Slow travel images includes vessels UCSB + Tt + pelicans</td>
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<td>10:47:00 PDT</td>
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<td>17:47-GMT</td>
<td>Position: 125° / 1106 m Dir: West; Behavior: Slow travel</td>
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<td>10:51:00 PDT</td>
<td>Blow</td>
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<td>17:51-GMT</td>
<td>Position: 131° / 778 m Dir: West; Behavior: Slow travel</td>
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<td>10:55:00 PDT</td>
<td>Blow</td>
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<td>17:55-GMT</td>
<td>Position: 165° / 883 m Dir: West; Behavior: Slow travel</td>
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<td>17:58-GMT</td>
<td>Position: 197° / 629 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td></td>
<td>18:02-GMT</td>
<td>Position: 240° / 574 m Dir: West; Behavior: Slow travel</td>
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<td></td>
<td></td>
<td>11:06:00 PDT</td>
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<td></td>
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<td>18:06-GMT</td>
<td>Position: 262° / 778 m Dir: West; Behavior: Slow travel</td>
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Images: 8917-8952
Images: 8958-8990
Images: 8991-9043
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Daily Totals</th>
<th>Quality-Beaufort</th>
<th>Holly / Buoys</th>
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</thead>
<tbody>
<tr>
<td>Sighting Number 13</td>
<td>Fair - 1</td>
<td>Er Total 4 — 2 Calves at sighting</td>
</tr>
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</table>

11:27:00 PDT
ni / Blow
18:27 GMT
Position: 108° / 1674 m Dir: West; Behavior: Slow travel
very slow along Isla Vista kelp - 2 pairs traveling parallel - rolling in front of Point - looked like nursing - underwater a long time

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
both cows surfaced

11:43:00 PDT
Blow
18:43 GMT
Position: 200° / 366 m Dir: West; Behavior: Slow travel

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
18:51 GMT
Position: 294° / 946 m Dir: West; Behavior: Slow travel
Inside / Inside

11:59:00 PDT
Body
18:59 GMT
Position: 253° / 471 m Dir: West; Behavior: Slow travel

12:01:00 PDT
Body
20:01 GMT
Position: 130° / 600 m Dir: West; Behavior: Slow travel

12:02:00 PDT
Body
20:02 GMT
Position: 149° / 489 m Dir: West; Behavior: Slow travel

calf on mothers side close to shore

calf on mothers side close to shore

12:05:00 PDT
ni / Body
19:55 GMT
Position: 115° / 1403 m Dir: West; Behavior: Slow travel
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

12:55:00 PDT
ni / Body
19:55 GMT
Position: 115° / 1403 m Dir: West; Behavior: Slow travel

13:00:00 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

calf on mothers side close to shore

calf on mothers side close to shore

13:07:00 PDT
Body
20:07 GMT
Position: 241° / 426 m Dir: West; Behavior: Slow travel
calf on mothers side close to shore

calf on mothers side close to shore

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

Page Number 93
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
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<tbody>
<tr>
<td>13:10:00 PDT</td>
<td>Body</td>
<td>267° / 377 m</td>
<td>West;</td>
<td>Slow travel</td>
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<tr>
<td>13:13:00 PDT</td>
<td>Body</td>
<td>271° / 508 m</td>
<td>West;</td>
<td>Slow travel</td>
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<tr>
<td></td>
<td>calf near mother's side</td>
<td></td>
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<tr>
<td>13:16:00 PDT</td>
<td>Body</td>
<td>276° / 489 m</td>
<td>West;</td>
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<td>stopped around buoys</td>
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<td>271° / 508 m</td>
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<td>13:22:00 PDT</td>
<td>Body</td>
<td>284° / 574 m</td>
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<td>into kelp area near surf</td>
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<td>296° / 1331 m</td>
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<td>Inside / Inside</td>
<td></td>
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<tr>
<td>13:59:00 PDT</td>
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<td>119° / 1483 m</td>
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<tr>
<td></td>
<td>calf mostly hidden by the mother</td>
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<td>swimming on the left side</td>
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<tr>
<td></td>
<td>- saw one calf blow which</td>
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<td>determined that there was a</td>
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<td>calf - in the buoys did see the</td>
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<td>calf body - traveled through</td>
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<td>14:08:00 PDT</td>
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<td>194° / 440 m</td>
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<td>calf on ocean side</td>
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<td>Holly / Buoys</td>
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<td>Position: 103° / 1922 m</td>
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<td>Position: 145° / 489 m</td>
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<td>Position: 174° / 426 m</td>
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<td>Blow</td>
<td>Position: 188° / 366 m</td>
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<td>Position: 234° / 455 m</td>
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<td>16:36:00 PDT</td>
<td>Blow</td>
<td>Position: 260° / 539 m</td>
<td>Dir: West; Behavior: Slow travel switched directions briefly</td>
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<tr>
<td>16:37:00 PDT</td>
<td>Body</td>
<td>Position: 260° / 539 m</td>
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<td>Position: 261° / 471 m</td>
<td>Dir: West; Behavior: Slow travel ● Spyhop spy hop</td>
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<tr>
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<td>Position: 262° / 440 m</td>
<td>Dir: West; Behavior: Slow travel ● Spyhop</td>
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</tr>
<tr>
<td>16:42:00 PDT</td>
<td>Body</td>
<td>Position: 262° / 471 m</td>
<td>Dir: West; Behavior: Slow travel ● Rolling mom rolled and calf spyhopped</td>
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<tr>
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<td>Blow</td>
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<td>Dir: West; Behavior: Slow travel Inside / Inside</td>
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<tr>
<td>16:21:00 PDT</td>
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<td>Position: 100° / 2749 m</td>
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<tr>
<td>16:22:00 PDT</td>
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<td>Position: 103° / 2260 m</td>
<td>Dir: West; Behavior: Slow travel</td>
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</table>

**Sighting Number**

<p>| 24 | 25 | Fair - 1 | Er Total 2 — 1 Calf at sighting |</p>
<table>
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<tr>
<th>Daily Totals</th>
<th>Quality-Beaufort</th>
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<tr>
<td>23:34-GMT</td>
<td>105° / 1674 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td>23:39-GMT</td>
<td>112° / 1483 m Dir: West; Behavior: Slow travel</td>
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<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>25</th>
<th>Fair - 1</th>
<th>Er Total 4 — 2 Calves at sighting</th>
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<tbody>
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<tr>
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<td>Blow</td>
<td>ni / Blow</td>
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<tr>
<td>23:25-GMT</td>
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<tr>
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<tr>
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<td>merged with S#24</td>
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<td>Position: 115° / 1020 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>Position: 122° / 778 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<tr>
<td>23:48-GMT</td>
<td>Position: 134° / 550 m Dir: West; Behavior: Slow travel • Moderate travel</td>
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<td>16:49:00 PDT</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>23:49-GMT</td>
<td>Position: 149° / 508 m Dir: West; Behavior: Slow travel • Moderate travel</td>
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<tr>
<td>16:50:00 PDT</td>
<td>Blow</td>
<td></td>
<td></td>
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<tr>
<td>23:50-GMT</td>
<td>Position: 174° / 412 m Dir: West; Behavior: Slow travel • Moderate travel</td>
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<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>23:52-GMT</td>
<td>Position: 207° / 412 m Dir: West; Behavior: Slow travel • Moderate travel</td>
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</table>
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
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<th>Behavior</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:52:00 PDT</td>
<td>209˚ / 314 m</td>
<td>Dir: West; Slow travel ● Moderate travel</td>
<td>Blow (with moderate travel)</td>
</tr>
<tr>
<td>16:53:00 PDT</td>
<td>232˚ / 338 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow</td>
</tr>
<tr>
<td>16:54:00 PDT</td>
<td>242˚ / 455 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow</td>
</tr>
<tr>
<td>16:55:00 PDT</td>
<td>254˚ / 508 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow and moderate travel</td>
</tr>
<tr>
<td>16:56:00 PDT</td>
<td>261˚ / 528 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow</td>
</tr>
<tr>
<td>16:57:00 PDT</td>
<td>269˚ / 629 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow</td>
</tr>
<tr>
<td>17:01:00 PDT</td>
<td>295˚ / 946 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow, inside/inside</td>
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</tbody>
</table>

### May 06

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Day 89 of 105</th>
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#### Er Gray whale (northbound)

<table>
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<tr>
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<th>Behavior</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:48:00 PDT</td>
<td>138˚ / 314 m</td>
<td>Dir: West; Slow travel ● Rolling</td>
<td>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</td>
</tr>
<tr>
<td>8:50:00 PDT</td>
<td>153˚ / 258 m</td>
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<td>Blow</td>
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<tr>
<td>8:53:00 PDT</td>
<td>158˚ / 314 m</td>
<td>Dir: West; Slow travel ● Rolling</td>
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</tr>
<tr>
<td>8:55:00 PDT</td>
<td>162˚ / 293 m</td>
<td>Dir: West; Slow travel</td>
<td>Body</td>
</tr>
<tr>
<td>8:57:00 PDT</td>
<td>219˚ / 330 m</td>
<td>Dir: West; Slow travel</td>
<td>Body</td>
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<tr>
<td>8:59:00 PDT</td>
<td>231˚ / 356 m</td>
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<tr>
<td>9:00:00 PDT</td>
<td>246˚ / 356 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow</td>
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<tr>
<td>9:03:00 PDT</td>
<td>276˚ / 489 m</td>
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<td>Blow</td>
</tr>
<tr>
<td>9:04:00 PDT</td>
<td>286˚ / 489 m</td>
<td>Dir: West; Slow travel</td>
<td>Blow</td>
</tr>
<tr>
<td>9:06:00 PDT</td>
<td>293˚ / 539 m</td>
<td>Dir: West; Slow travel</td>
<td>Body, inside/inside</td>
</tr>
</tbody>
</table>

### Images: 9520-9548

#### Poor - 2

Total 4 — 2 Calves at sighting

<table>
<thead>
<tr>
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<th>Position</th>
<th>Behavior</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>9:44:00 PDT</td>
<td>106˚ / 2749 m</td>
<td>Dir: West; Slow travel</td>
<td>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</td>
</tr>
</tbody>
</table>

### Images: 9549-9575

#### Poor - 2

Total 2 — 1 Calf at sighting
<table>
<thead>
<tr>
<th>Time</th>
<th>Position</th>
<th>Dir</th>
<th>Behavior</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:49:00 PDT</td>
<td>110˚ / 1922 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>9:52:00 PDT</td>
<td>112˚ / 1208 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>9:56:00 PDT</td>
<td>115˚ / 946 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>9:58:00 PDT</td>
<td>125˚ / 574 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:01:00 PDT</td>
<td>150˚ / 400 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:04:00 PDT</td>
<td>184˚ / 366 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
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<tr>
<td>10:06:00 PDT</td>
<td>214˚ / 293 m</td>
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<td>Slow travel</td>
<td></td>
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<tr>
<td>10:08:00 PDT</td>
<td>244˚ / 455 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:11:00 PDT</td>
<td>261˚ / 539 m</td>
<td>West</td>
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<td>10:12:00 PDT</td>
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<td>284˚ / 735 m</td>
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<tr>
<td>10:53:00 PDT</td>
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<tr>
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<td>134˚ / 600 m</td>
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<tr>
<td>10:59:00 PDT</td>
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<tr>
<td>11:01:00 PDT</td>
<td>168˚ / 455 m</td>
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<td>11:02:00 PDT</td>
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Images: 9595-9647

Sighting Number

07 Poor - 2 Calf at sighting
<table>
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<tr>
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<td>Blow</td>
</tr>
<tr>
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<td>Blow</td>
</tr>
<tr>
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<td>Blow</td>
</tr>
<tr>
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<tr>
<td>Time</td>
<td>Sighting Number</td>
<td>Quality-Beaufort</td>
<td>CueTip / Saw</td>
<td>Holly / Buoys</td>
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<tr>
<td>22:09-GMT</td>
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<td>Position: 259˚ / 508 m Dir: West; Behavior: Slow travel</td>
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<td>15</td>
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<td>15</td>
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<td>Inside / Inside</td>
<td></td>
</tr>
<tr>
<td>22:13-GMT</td>
<td></td>
<td>Position: 286˚ / 883 m Dir: West; Behavior: Slow travel</td>
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**May 07**

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<td>Position: 111˚ / 1403 m Dir: West; Behavior: Slow travel</td>
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Images: 9698-9739

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

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</table>

**Images: 9745-9784**

**Total 2 — 1 Calf at sighting**

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

### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
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<th>Holly / Buoys</th>
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**Sighting Number 08**

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<tr>
<td></td>
<td>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</td>
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<table>
<thead>
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**Sighting Number 13**

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

### Daily Totals

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23 Fair - 3

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</table>

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

### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>CuetTip</th>
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<th>Beaufort</th>
<th>Quality</th>
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<td>Inside</td>
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### Off-effort sightings:

- Off 1725 - saw 1 - @127/3.7 - 0 direction - behaviors 1, 7 (possibly nursing)
- Off 1727 - saw 1 - @140/5 - 0 direction
- Off 1729 - saw 1 - @139/3.5 - W direction - behavior 1
- Off 1730 - saw 1 - @158/3.7 - W direction - behavior 1
- Off 1733 - saw 1 - @202/4.8 - W direction - behavior 1
- Off 1734 - saw 1 - @233/2.7 - W direction - behavior 1
- Off 1735 - saw 1 - @246/3 - W direction - behavior 1

---

### May 09

#### Sighting Number 03

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<th>Images</th>
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**Total 2 — 1 Calf at sighting**

### Er Gray whale (northbound)

#### Sighting Number 04

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**Total 2 — 1 Calf at sighting**
## 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

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<th>Notes</th>
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<td>286˚ / 661 m</td>
<td>West</td>
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<td>Position: 286˚ / 661 m; Dir: West; Behavior: Slow travel</td>
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<td>West</td>
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<td>Position: 114˚ / 1483 m; Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>125˚ / 1106 m</td>
<td>West</td>
<td>Slow travel</td>
<td>Position: 125˚ / 1106 m; Dir: West; Behavior: Slow travel</td>
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<td>West</td>
<td>Slow travel</td>
<td>Position: 149˚ / 661 m; Dir: West; Behavior: Slow travel</td>
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<td>West</td>
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<td>10:03:00 PDT</td>
<td>217˚ / 550 m</td>
<td>West</td>
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<td>Position: 217˚ / 550 m; Dir: West; Behavior: Slow travel</td>
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<tr>
<td>May 10</td>
<td>10:07:00 PDT</td>
<td>262˚ / 778 m</td>
<td>West</td>
<td>Slow travel</td>
<td>Position: 262˚ / 778 m; Dir: West; Behavior: Slow travel</td>
</tr>
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### May 10

**Total 4 Calves 2**

**Report Date 2016.11.21**
### May 11  
**Total 6 Calves 3**

**Day 94 of 105**

<table>
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<tbody>
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<tr>
<td>10:02:00 PDT</td>
<td>293˚ / 883 m</td>
<td>West; Slow travel</td>
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**Images: 0135-0145**

**Sighting Number 05**

**Fair - 1**

**Er Total 2 — 1 Calf at sighting**

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<td>97˚ / 3088 m</td>
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<tr>
<td>9:21:00 PDT</td>
<td>100˚ / 2749 m</td>
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<tr>
<td>9:23:00 PDT</td>
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<td>102˚ / 2749 m</td>
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<tr>
<td>9:32:00 PDT</td>
<td>104˚ / 1922 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:37:00 PDT</td>
<td>103˚ / 1331 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:40:00 PDT</td>
<td>107˚ / 1208 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:43:00 PDT</td>
<td>109˚ / 1106 m</td>
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<tr>
<td>9:47:00 PDT</td>
<td>124˚ / 489 m</td>
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<td>9:49:00 PDT</td>
<td>145˚ / 412 m</td>
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<tr>
<td>9:52:00 PDT</td>
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<td>9:59:00 PDT</td>
<td>249˚ / 471 m</td>
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<tr>
<td>10:00:00 PDT</td>
<td>280˚ / 735 m</td>
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2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

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<th>Notes</th>
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<td>10:08:00 PDT</td>
<td>297˚ / 1106 m</td>
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<td>Inside / Inside. Sighting Number 8, Total 2 — 1 Calf at sighting.</td>
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<tr>
<td>10:12:00 PDT</td>
<td>100˚ / 2749 m</td>
<td>West</td>
<td>Slow travel</td>
<td>Turned right just past Campus Pt into kelp. Spent a long time in kelp</td>
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<td>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.</td>
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<tr>
<td>10:30:00 PDT</td>
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<tr>
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<td>Slow travel</td>
<td>Body</td>
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<tr>
<td>17:49:00 GMT</td>
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<tr>
<td>10:50:00 PDT</td>
<td>124˚ / 412 m</td>
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<td>10:52:00 PDT</td>
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<td>11:05:00 PDT</td>
<td>171˚ / 458 m</td>
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Sighting Number 30 Good - 3 Total 2 — 1 Calf at sighting

Images: 0147-0197 0230-0294
# 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

<table>
<thead>
<tr>
<th>Time</th>
<th>Cue Tip / Saw</th>
<th>Position</th>
<th>Dir</th>
<th>Behavior</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>16:56:00 PDT</td>
<td>Blow</td>
<td>102˚ / 1922 m</td>
<td>West</td>
<td>Slow travel</td>
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<td>Blow</td>
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<tr>
<td>17:05:00 PDT</td>
<td>Blow</td>
<td>103˚ / 1331 m</td>
<td>West</td>
<td>Slow travel</td>
<td>Blow</td>
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**OFF EFFORT SIGHTINGS:**
- time: 17:10 - saw: 1 - @99/1.5 - W - behaviors: 1 -
- time: 17:15 - saw: 1 - @145/3 - W - behaviors: 1 -
- time: 17:17 - saw: 1 - @180/3.2 - W - behaviors: 1 -
- time: 17:20 - saw: 1 - @249/2.8 - W - behaviors: 1 -
- time: 17:22 - saw: 1 - @268/1.7 - W - behaviors: 1 -

<table>
<thead>
<tr>
<th>Time</th>
<th>Position</th>
<th>Dir</th>
<th>Behavior</th>
<th>Event</th>
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<tbody>
<tr>
<td>17:05:00 PDT</td>
<td></td>
<td></td>
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## May 12

**Total 4 Calves 2**

**Sighting Number 07**

**Er Gray whale (northbound)**

**Total 2 — 1 Calf at sighting**

**Images: 0303-0476**

<table>
<thead>
<tr>
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<th>Event</th>
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<tbody>
<tr>
<td>10:33:00 PDT</td>
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<td>Bubbles seen</td>
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<tr>
<td>10:35:00 PDT</td>
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<td></td>
</tr>
<tr>
<td>10:40:00 PDT</td>
<td>243˚ / 388 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:43:00 PDT</td>
<td>242˚ / 412 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
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<tr>
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<td>253˚ / 489 m</td>
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<td>Slow travel</td>
<td>Rolling</td>
</tr>
<tr>
<td>10:51:00 PDT</td>
<td>259˚ / 440 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
<tr>
<td>10:53:00 PDT</td>
<td>265˚ / 661 m</td>
<td>West</td>
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<tr>
<td>11:00:00 PDT</td>
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<tr>
<td>11:06:00 PDT</td>
<td>257˚ / 539 m</td>
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<td></td>
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<tr>
<td>11:11:00 PDT</td>
<td>258˚ / 539 m</td>
<td>West</td>
<td>Slow travel</td>
<td></td>
</tr>
</tbody>
</table>

- 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

- moved east and then turned back
### 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

#### Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Position</th>
<th>Direction</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:13:00 PT</td>
<td>Blow</td>
<td>254˚ / 539 m</td>
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<td>Inside/nd</td>
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#### Sighting Number

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<th>Behavior</th>
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<tr>
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**Images:** 0617-0638, 0654-0668
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<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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<tr>
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<td>20</td>
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<td>16:48:00 PDT</td>
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</table>

**OFF EFFORT SIGHTINGS:**
- **-time:** 1709 - saw: 1 - @98/1.2 - W - behavior: 1 -
- **-time:** 1710 - saw: 1 - @99/1.3 - W - behavior: 1 -
- **-time:** 1716 - saw: 1 - @128/2.2 - W - behavior: 1 -
- **-time:** 1720 - saw: 1 - @199/2.4 - W - behavior: 1 -
- **-time:** 1723 - saw: 1 - @234/1.6 - W - behavior: 1 -
- **-time:** 1729 - saw: 1 - @244/6 - W - behavior: 1 -

---

**May 14**

**Total 8 Calves 4**

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CueTip / Saw</th>
<th>Holly / Buoys</th>
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<td>Position: 101° / 778 m</td>
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<td>Er</td>
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<td>Blow</td>
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<td>Dir: West; Behavior: Slow travel</td>
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<td>Er</td>
<td>14:48:00 PDT</td>
<td>Body</td>
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<td>21:52-GMT</td>
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<td>Position: 278° / 574 m</td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>Position: 300° / 827 m</td>
<td>Dir: West; Behavior: Slow travel</td>
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Report Date 2016.11.21 Page Number 110
### Daily Totals

<table>
<thead>
<tr>
<th>Sighting Number</th>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CutTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
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<td>ni / Blow</td>
<td>Total 2 — 1 Calf at sighting</td>
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<td>Position: 102° / 2260 m</td>
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<tr>
<td></td>
<td></td>
<td>15:27:00 PDT</td>
<td>Blow</td>
<td>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</td>
</tr>
<tr>
<td></td>
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<td>22:27 GMT</td>
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<tr>
<td>30</td>
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<td>Total 2 — 1 Calf at sighting</td>
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<td>Position: 101° / 3088 m</td>
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<td></td>
<td></td>
<td>16:32:00 PDT</td>
<td>Blow</td>
<td>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</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Blow</td>
<td>kayakers headed back toward whales - went past N</td>
</tr>
<tr>
<td></td>
<td></td>
<td>23:32 GMT</td>
<td>Position: 101° / 2260 m</td>
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Daily Totals

<table>
<thead>
<tr>
<th>Time</th>
<th>Behaviors</th>
<th>Position</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>16:33:00 PDT</td>
<td>Blow</td>
<td>102° / 2260 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>16:52:00 PDT</td>
<td>Blow</td>
<td>115° / 1208 m</td>
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<td>145° / 574 m</td>
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</tr>
<tr>
<td>17:07:00 PDT</td>
<td>Body</td>
<td>108° / 1922 m</td>
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<tr>
<td>17:09:00 PDT</td>
<td>Body</td>
<td>109° / 440 m</td>
<td>West; Slow travel</td>
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<tr>
<td>17:10:00 PDT</td>
<td>Body</td>
<td>145° / 366 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:12:00 PDT</td>
<td>Blow</td>
<td>163° / 330 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:14:00 PDT</td>
<td>Blow</td>
<td>180° / 388 m</td>
<td>West; Slow travel</td>
</tr>
</tbody>
</table>

Sighting Number 31

<table>
<thead>
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<th>Time</th>
<th>Behaviors</th>
<th>Position</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
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<td>108° / 1922 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:01:00 PDT</td>
<td>Blow</td>
<td>145° / 574 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:07:00 PDT</td>
<td>Body</td>
<td>205° / 539 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:09:00 PDT</td>
<td>Body</td>
<td>138° / 440 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
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<td>Body</td>
<td>145° / 366 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
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<td>Blow</td>
<td>163° / 330 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:14:00 PDT</td>
<td>Blow</td>
<td>180° / 388 m</td>
<td>West; Slow travel</td>
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</table>

Sighting Number 31

<table>
<thead>
<tr>
<th>Time</th>
<th>Behaviors</th>
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<th>Behavior</th>
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<tbody>
<tr>
<td>16:52:00 PDT</td>
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<td>108° / 1922 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:01:00 PDT</td>
<td>Blow</td>
<td>145° / 574 m</td>
<td>West; Slow travel</td>
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<tr>
<td>17:07:00 PDT</td>
<td>Body</td>
<td>205° / 539 m</td>
<td>West; Slow travel</td>
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<tr>
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<td>Body</td>
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<td>West; Slow travel</td>
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<td>17:10:00 PDT</td>
<td>Body</td>
<td>145° / 366 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:12:00 PDT</td>
<td>Blow</td>
<td>163° / 330 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>17:14:00 PDT</td>
<td>Blow</td>
<td>180° / 388 m</td>
<td>West; Slow travel</td>
</tr>
</tbody>
</table>

May 15

Total 6 Calves 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Behaviors</th>
<th>Position</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:27:00 PDT</td>
<td>ni / Blow</td>
<td>99° / 3088 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:28:00 PDT</td>
<td>Blow</td>
<td>100° / 3088 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:33:00 PDT</td>
<td>Blow</td>
<td>101° / 2749 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:36:00 PDT</td>
<td>Blow</td>
<td>102° / 2749 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:39:00 PDT</td>
<td>Blow</td>
<td>104° / 2260 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:48:00 PDT</td>
<td>Blow</td>
<td>104° / 1922 m</td>
<td>West; Slow travel</td>
</tr>
</tbody>
</table>

Images: On 2 GB card

Er Gray whale (northbound)

Total 6 Calves 3

<table>
<thead>
<tr>
<th>Time</th>
<th>Behaviors</th>
<th>Position</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:27:00 PDT</td>
<td>ni / Blow</td>
<td>99° / 3088 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:28:00 PDT</td>
<td>Blow</td>
<td>100° / 3088 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:33:00 PDT</td>
<td>Blow</td>
<td>101° / 2749 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:36:00 PDT</td>
<td>Blow</td>
<td>102° / 2749 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:39:00 PDT</td>
<td>Blow</td>
<td>104° / 2260 m</td>
<td>West; Slow travel</td>
</tr>
<tr>
<td>9:48:00 PDT</td>
<td>Blow</td>
<td>104° / 1922 m</td>
<td>West; Slow travel</td>
</tr>
</tbody>
</table>

Report Date 2016.11.21
2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-Effort

Daily Totals

<table>
<thead>
<tr>
<th>Quality-Beaufort</th>
<th>Time</th>
<th>CurTip / Saw</th>
<th>Holly / Buoys</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Blow</td>
<td></td>
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<tr>
<td></td>
<td>16:52 GMT</td>
<td>Position: 107˚ / 2260 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9:55:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>16:55 GMT</td>
<td>Position: 109˚ / 1922 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:00:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:00 GMT</td>
<td>Position: 113˚ / 1403 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td>10:04:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:04 GMT</td>
<td>Position: 119˚ / 946 m Dir: West; Behavior: Slow travel calves traveling together</td>
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<tr>
<td></td>
<td>10:08:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:08 GMT</td>
<td>Position: 117˚ / 827 m Dir: West; Behavior: Slow travel</td>
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</tr>
<tr>
<td></td>
<td>10:10:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:10 GMT</td>
<td>Position: 122˚ / 827 m Dir: West; Behavior: Slow travel ● Rolling</td>
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</tr>
<tr>
<td></td>
<td>10:11:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:11 GMT</td>
<td>Position: 122˚ / 629 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td>10:14:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:14 GMT</td>
<td>Position: 136˚ / 508 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td>10:15:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:15 GMT</td>
<td>Position: 147˚ / 539 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td>10:17:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:17 GMT</td>
<td>Position: 159˚ / 489 m Dir: West; Behavior: Slow travel</td>
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<td></td>
<td>10:18:00 PDT</td>
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<tr>
<td></td>
<td>17:18 GMT</td>
<td>Position: 168˚ / 400 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td>10:20:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:20 GMT</td>
<td>Position: 193˚ / 382 m Dir: West; Behavior: Slow travel back to family pairs</td>
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</tr>
<tr>
<td></td>
<td>10:23:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:23 GMT</td>
<td>Position: 235˚ / 447 m Dir: West; Behavior: Slow travel</td>
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<tr>
<td></td>
<td>10:25:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:25 GMT</td>
<td>Position: 254˚ / 447 m Dir: West; Behavior: Slow travel</td>
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<tr>
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<td></td>
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<tr>
<td></td>
<td>17:27 GMT</td>
<td>Position: 261˚ / 528 m Dir: West; Behavior: Slow travel calves playing</td>
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</tr>
<tr>
<td></td>
<td>10:28:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:28 GMT</td>
<td>Position: 262˚ / 489 m Dir: West; Behavior: Slow travel ● Rolling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:32:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:32 GMT</td>
<td>Position: 276˚ / 629 m Dir: West; Behavior: Slow travel</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10:36:00 PDT</td>
<td>Blow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>17:36 GMT</td>
<td>Position: 297˚ / 1560 m Dir: West; Behavior: Slow travel Inside / Inside</td>
<td></td>
</tr>
</tbody>
</table>

Sighting Number

| 06 | Fair - 4 | Er Total 2 — 1 Calf at sighting |

Images: none

Report Date 2016.11.21
## May 16

**Total 2 Calves**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:22:00 PDT</td>
<td>ni / Body</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>19:22-GMT</td>
<td>Position: 149°/508 m</td>
<td></td>
</tr>
<tr>
<td>12:23:00 PDT</td>
<td>Body</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>19:23-GMT</td>
<td>Position: 162°/471 m</td>
<td></td>
</tr>
<tr>
<td>12:25:00 PDT</td>
<td>Blow</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>19:25-GMT</td>
<td>Position: 191°/400 m</td>
<td></td>
</tr>
<tr>
<td>12:28:00 PDT</td>
<td>Blow</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>19:28-GMT</td>
<td>Position: 233°/377 m</td>
<td></td>
</tr>
<tr>
<td>12:29:00 PDT</td>
<td>Blow</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>19:29-GMT</td>
<td>Position: 253°/455 m</td>
<td></td>
</tr>
<tr>
<td>12:33:00 PDT</td>
<td>Body</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>19:33-GMT</td>
<td>Position: 267°/508 m</td>
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</tbody>
</table>

**Images:** 1250-1279

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## May 19

**Total 2 Calves**

<table>
<thead>
<tr>
<th>Time</th>
<th>Location</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:14:00 PDT</td>
<td>ni / Body</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>16:14-GMT</td>
<td>Position: 109°/1331 m</td>
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</tr>
<tr>
<td>9:16:00 PDT</td>
<td>Blow</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>16:16-GMT</td>
<td>Position: 109°/946 m</td>
<td></td>
</tr>
<tr>
<td>9:20:00 PDT</td>
<td>Blow</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>16:20-GMT</td>
<td>Position: 112°/678 m</td>
<td></td>
</tr>
<tr>
<td>9:25:00 PDT</td>
<td>Body</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>16:25-GMT</td>
<td>Position: 140°/455 m</td>
<td></td>
</tr>
<tr>
<td>9:29:00 PDT</td>
<td>Body</td>
<td>Dir: West; Behavior: Slow travel</td>
</tr>
<tr>
<td>16:29-GMT</td>
<td>Position: 179°/388 m</td>
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</tr>
<tr>
<td>9:30:00 PDT</td>
<td>Blow</td>
<td>Dir: West; Behavior: Slow travel</td>
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<tr>
<td>16:30-GMT</td>
<td>Position: 186°/366 m</td>
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</tr>
<tr>
<td>9:43:00 PDT</td>
<td>Blow</td>
<td>Inside / Inside</td>
</tr>
<tr>
<td>16:43-GMT</td>
<td>Position: 306°/946 m</td>
<td></td>
</tr>
</tbody>
</table>

**Images:** 1365-1390

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**Gray whale (northbound)**

- May 16
  - Day 99 of 105
  - 15 sightings: Total 2 Calves
    - Total 2 — 1 Calf at sighting

- May 19
  - Day 102 of 105
  - 2 sightings: Total 2 Calves
    - Total 2 — 1 Calf at sighting

**Notes:**

- Gray whale (northbound) sightings on May 16 and May 19.
- Multiple sightings across different times and locations.
- Behavior: Slow travel.
- Observations include positions, directions, and behaviors.

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**Quality-Beaufort**

- May 16: 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-End
- May 19: 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-End

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**Holly / Buoys**

- May 16: 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-End
- May 19: 2011 Gray whale (northbound): Totals, Sighting + Tracking Details, On-End