| No. | Calf | Type | Adult | Old | Young | Calf | Type | Adult | Old | Young | Calf | Type | Adult | Old | Young | Calf | Type | Adult | Old | Young | Calf | Type | Adult | Old | Young | Calf | Type | Adult | Old | Young |
|-----|------|------|-------|-----|-------|------|------|-------|-----|-------|------|------|-------|-----|-------|------|------|-------|-----|-------|------|------|-------|-----|-------|------|------|-------|-----|-------|------|------|
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Comments:

| MB | VS | AL | O | O | MB | VS | AL | O | O | MB | VS | AL | O | O | MB | VS | AL | O | O | MB | VS | AL | O | O | MB | VS | AL | O | O |
|----|----|----|---|---|----|----|----|---|---|----|----|----|---|---|----|----|----|---|---|----|----|----|---|---|----|----|----|---|---|----|----|----|---|---|
| 9  |    |    |   |   | 11 |    |    |   |   | 3  |    |    |   |   |    |    |    |   |   |    |    |    |   |   |    |    |    |   |   |    |    |    |   |   |
| 10 |    |    |   |   | 12 |    |    |   |   | 4  |    |    |   |   |    |    |    |   |   |    |    |    |   |   |    |    |    |   |   |    |    |    |   |   |
# 2013 Guide to Codes for Master Datasheet

## Weather + Sea Conditions

### Quality

- **Excellent**: Minimum Visibility 3 nm
- **Good**: Minimum Visibility 2 nm
- **Fair**: Minimum Visibility 1.7 nm
- **Poor**: Minimum Visibility 1 nm

Note: Just because you can see 3 nm does not make it Excellent, etc.

### Beaufort Scale

- **6**: Rough, waves of 3-4 ft, wind 21-25 knots
- **5**: Moderate waves, 2-3 ft, wind 17-20 knots
- **4**: Small waves, 1-2 ft, wind 13-16 knots
- **3**: Light waves, 0.5-1 ft, wind 9-12 knots
- **2**: Calm, 0.2-0.5 ft, wind 6-8 knots
- **1**: Silk, 0 ft, wind 0-3 knots

### Horizon - Clarity

- **Sharp, distinct, very clear (usually, Visibility 3 nm)**
- **Fuzzy**: haze, spray, and/or heat waves

### Visibility - Distance in nautical miles (nm)

- **Equal to or greater than 5 nm**
- **Between 2 and 3 nm**
- **Just beyond Holly or Campus Point**
- **Within 1 nm**

### Vessel Classifications on back of clipboard

## Animal + Vessel Sightings

### Code

- **B**: Begin Count
- **W**: Weather + Sea condition update
- **S**: Sighting only
- **SW**: Sighting all other Whales, including Er (southbound)
- **SO**: Sighting Sea Otters
- **SP**: Sighting Pinnipeds, not California Sea lions (Zc)
- **V**: Sighting vessels

### Cue Tip

- **A**: Faseway
- **B**: Boat
- **C**: Call
- **D**: Birds (often diving)
- **E**: Surface disturbance
- **F**: Breach (whale)
- **G**: Breach (dolphin)
- **H**: Blow
- **I**: Blow
- **J**: Blow
- **K**: Blow
- **L**: Blow
- **M**: Blow
- **N**: Blow
- **O**: Blow
- **P**: Blow
- **Q**: Blow
- **R**: Blow
- **S**: Blow
- **T**: Blow
- **U**: Blow
- **V**: Blow
- **W**: Blow
- **X**: Blow
- **Y**: Blow
- **Z**: Blow

### Saw

- **1**: Blow
- **2**: Body
- **3**: Leap (dolphin)
- **4**: Splash
- **5**: Breach (whale)
- **6**: Breach (whale)
- **7**: Breach (whale)
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- **58**: Breach (whale)
- **59**: Breach (whale)
- **60**: Breach (whale)

### Species

#### Whales

- **Gray whale (southbound)**: *Eschrichtius robustus*, p 204
- **Gray whale (southbound)**: *Eschrichtius robustus*, p 204
- **Humpback whale**: *Megaptera novaeangliae*, p 206
- **Blue whale**: *Balaenoptera musculus*, p 214

#### Dolphins

- **Common dolphin, Short-beaked**: *Delphinus delphis*, p 388
- **Common dolphin, Long-beaked**: *Delphinus capensis*, p 392
- **Bottlenose dolphin**: *Tursiops truncatus*, p 358
- **Pacific White-sided dolphin, Lags**: *Lagenorhynchus obliquidens*, p 402
- **Killer whale (Orcia)**: *Orcinus orca*, p 416

#### Sea otters

- **Northern Elephant seal**: *Mirounga angustirostris*, p 162
- **California Sea lion**: *Zalophus Californianus*, p 90

### Airship Sighting Position at Bearing of 160°

Estimate Distance from Counter Point in miles. Enter in Notes cell:

<table>
<thead>
<tr>
<th>Estimate Distance (in miles)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 30</td>
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<td>30 - 50</td>
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<tr>
<td>&gt; 50</td>
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</table>

### Marine Mammals of the World

Consult for rarer species.

<table>
<thead>
<tr>
<th>Species</th>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>Gray whale</td>
<td>GRW</td>
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<tr>
<td>Pacific White-sided dolphin</td>
<td>PWD</td>
</tr>
<tr>
<td>Killer whale</td>
<td>KWH</td>
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<tr>
<td>Northern Elephant seal</td>
<td>NLM</td>
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<tr>
<td>California Sea lion</td>
<td>CSL</td>
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</tbody>
</table>

### Vessel Classifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Activity</th>
<th>Type</th>
<th>Agency-Institution-Org</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Oil Services</td>
<td>11</td>
<td>Cruise liner</td>
<td>UCSB</td>
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<tr>
<td>2 Touring</td>
<td>12</td>
<td>RHIB</td>
<td>Coast Guard</td>
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<tr>
<td>3 Kelp Harvester</td>
<td>13</td>
<td>Tug (little)</td>
<td>Sheriff / County</td>
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<td>4 Fish Commercial</td>
<td>14</td>
<td>Jet-ski</td>
<td>Harbor Patrol</td>
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<tr>
<td>5 Private</td>
<td>15</td>
<td>RHIB</td>
<td>Sheriff / County</td>
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<tr>
<td>6 Research</td>
<td>16</td>
<td>Stand-up paddle</td>
<td>CA Fish + Game</td>
</tr>
<tr>
<td>7 Vessel Assist</td>
<td>17</td>
<td>Kiteboard/Windsurfer</td>
<td>US Fish + Wildlife</td>
</tr>
<tr>
<td>8 Enforcement</td>
<td>18</td>
<td>Sailboat</td>
<td>Military</td>
</tr>
<tr>
<td>9 Warship</td>
<td>19</td>
<td>Sportfishing</td>
<td>CNMS</td>
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<tr>
<td>10 Airship</td>
<td>20</td>
<td>Diving</td>
<td>Blimp</td>
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<tr>
<td>99 Other</td>
<td>21</td>
<td>Helicopter</td>
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<td>22 Tug + Barge</td>
<td>23</td>
<td>Blimp</td>
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<td>24 Lobster/Crab</td>
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<td>Blimp</td>
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<td>26 Unchin diving</td>
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<td>Blimp</td>
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<td>28 Squid</td>
<td>29</td>
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</table>
### Vessel / Animal Interaction

#### Animal Sighting Number (must be filled in)

- 0: None apparent (no animals near vessel)
- ~: Enter Sighting Number of affected animal(s)

#### Vessel Action to Animal

1. Change course to view animal
2. Change course to avoid animal
3. Approach head on
4. Approach from rear
5. Approach at side
6. Approach parallel
7. Approach inside 100 m
8. Travel over submerged animal
9. Positioned in path of animal
10. Crossing path of animal
11. Hovering above
12. Flying below 30 meters
13. Contact animal
14. Stand-up paddler
15. Airship Sighting Position at Bearing of 160°

#### Animal Reaction to Vessel

1. Avoidance of boat
2. Approach boat
3. Alteration of normal activities
4. Quick dive
5. Long downtime
6. Breach
7. Fluke
8. Spyhop
9. Change direction
10. Pec slap
11. Tail lob
12. Disappear
13. Contact boat
14. not determined
<table>
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<tr>
<th>#</th>
<th>TIME</th>
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