



2013 Master Datasheet and Vessel Tracking Log with Entry Guides



part of 2013 **Gray Whales Count, Survey Report** © Gray Whales Count, 2013,
prepared by Michael H Smith, Project Coordinator, Gray Whales Count,
Santa Barbara, California, USA.

2013 Guide to Codes for Master Datasheet

Weather + Sea Conditions

Quality

E	Excellent • Minimum Visibility 3 nm
G	Good • Minimum Visibility 2 nm
F	Fair • Minimum Visibility 1.7 nm
P	Poor

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

Beaufort Scale

0	Sea like a mirror; glossy, no sparkles in sun path; sometimes sea looks like ice (less than 1 knot)
1	Ripples with the appearance of scales are formed; like sand paper; matte, darker vs. zero-Beaufort gloss, lighter; sparkles in sun (1 - 3 knots)
2	Small wavelets are becoming more articulated. Crests have a glassy appearance; no whitecaps. (4 - 6 knots)
3	First whitecaps, large wavelets; foam crests begin to appear, but are widely scattered. Mostly dots. (7 - 10 knots)
4	Small waves with more frequent whitecaps - always apparent - but waves settle instead of breaking; foam along top edge; dots + dashes, waves random, not yet organized (11 - 16 knots)
5	Moderate waves begin to break with more whitecaps. Becoming organized, lining up (17 - 21 knots)
6	Many whitecaps all around with larger waves forming and breaking. Much foam along lines of waves. (22 - 27 knots)

Horizon - Clarity

S	Sharp, distinct, very clear (usually, Visibility 3 nm)
F	Fuzzy: haze, spray, and/or heat waves
NV	Not Visible: rain, fog, or heavy haze in this condition, not able to use reticle scale

Visibility - Distance in nautical miles (nm)

3	Equal to or greater than 3 nm (<.1 reticles)
2	Just beyond Holly: Between 2 and 3 nm (.2 to .1 reticles)
1.7	At Holly or Campus Point (.25 reticles)
1.5	Just inside Holly (horizon likely not distinguishable)
1	Estimate (horizon likely not distinguishable)
<1	Estimate (horizon likely not distinguishable)

Vessel Classifications on back of clipboard

Animal + Vessel Sightings

Code

B	Begin Count
W	Weather + Sea condition update
S	Sighting (Er) only
SW	Sighting all other Whales, including Er (southbound)
SD	Sighting all Dolphin species
SO	Sighting Sea Otters
SP	Sighting Pinnipeds, not California Sea lion (Zc)
V	Sighting vessels
>	Continues sighting (same number)
TO	Time Out: Suspend survey effort
TI	Time In: Resume survey effort
T	Terminate: End of survey for day

Cue Tip

A	Passerby	1	Blow
B	Boat	2	Body
C	Call	3	Leap (dolphin)
D	Birds (often diving)	4	Splash
E	Surface disturbance		
		6	Breach (whale)
O	other	0	other



GRAY WHALES COUNT
SANTA BARBARA CHANNEL

Behaviors

Whales		Dolphins		Sea otters		Pinnipeds	
				30	with tags (note color + foot)	50	on sand
1	Slow travel	21	Slow travel	31	swimming	51	Slow travel
2	Moderate travel	22	Moderate travel	32	Interacting (explain)	52	Moderate travel
3	Fast travel	23	Fast travel	33	Grooming	53	Fast travel
4	Spyhop	24	with (Er)	34	with gull(s)	54	with (Er)
5	Rolling	25	Foraging	35	Diving	55	Diving
6	Breach	26	Leap	36	in kelp	56	in kelp
7	Fluke	27	Chorus line	37	in open water	57	in open water
8	Bubbles blast	28	Parade line	38	in surf zone	58	in surf zone
9	Milling	29	Milling	39	on back, feeding (what?)	59	Milling
10	Pec slap			40	on back, resting	60	Rescue attempt
11	Tail lob						
O	Circling	O	Circling	O	Circling	O	Circling

Airship Sighting Position at Bearing of 160°

Estimate Distance from Counter Point in meters. Enter in Reticle cell.
Estimate Altitude above ocean in meters. In Comments: < 30 30 - 50 > 50

Direction of Travel

N	North ↓ (towards mainland)
S	South ↑ (towards islands)
E	East ← (towards Santa Barbara)
W	West → (towards Pt Conception)
O	Circling
OO	Still

(Er) route past Holly

I	Inside (between shore + Holly)
O	Outside (beyond Holly)
nd	not determined

Species

Whales

(Er)	Gray whale (northbound)	<i>Eschrichtius robustus</i> , p 204
Er	Gray whale (southbound)	<i>Eschrichtius robustus</i> , p 204
Mn	Humpback whale	<i>Megaptera novaengliae</i> , p 208
Bm	Blue whale	<i>Balaenoptera musculus</i> , p 234
ULW	unidentified large whale	

Dolphins

Tt	Bottlenose dolphin	<i>Tursiops truncatus</i> , p 358
D sp	Common dolphin species	<i>Delphinus</i> species not determined
Dc	Common dolphin, Long-beaked	<i>Delphinus capensis</i> , p 392
Dd	Common dolphin, Short-beaked	<i>Delphinus delphis</i> , p 388
Lo	Pacific White-sided dolphin (Lags)	<i>Lagenorhynchus obliquidens</i> , p 402
Oo	Killer whale (Orca)	<i>Orcinus orca</i> , p 436
UD	unidentified dolphin	

Sea otters

EI	Sea otter	<i>Enhydra lutris</i> p 42
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Pinnipeds

Pv	Harbor seal	<i>Phoca vitulina</i> , p 118
Ma	Northern Elephant seal	<i>Mirounga angustirostris</i> , p 162
Zc	California Sea lion	<i>Zalophus Californianus</i> , p 90
UP	unidentified pinniped	

Page numbers refer to *Marine Mammals of the World*. Consult for rarer species.

2013 Guide to Codes for Vessel Tracking Log

Vessel Classifications

Category	Activity	Type	Agency-Institution-Org
		40	Cruise liner
1	Oil Services	11	Crew boat
2	Touring	12	Tug + oil barge
3	Kelp Harvester	13	Tug (little)
4	Fish Commercial	14	Observation
5	Private	15	Work boat
6	Research	16	Oil-spill recovery
7	Vessel Assist	17	Whale watching
8	Enforcement	18	
9	Warship	19	Sportfishing
10	Airship	20	Diving
99	other	21	Cruising
		22	Tug + Barge (not oil)
		23	
		24	
		25	Lobster/Crab
		26	Urchin diving
		27	Net
		28	Squid
		29	Line
		41	RHIB
		42	Boston Whaler
		43	Kayak/canoe
		44	Jet-ski
		45	
		46	Stand-up paddler
		47	Kiteboard/Windsurfer
		48	Sailboat
		49	Sailboat motoring
		50	Airplane
		51	Helicopter
		52	Blimp
		53	
		54	
		55	
		56	
		57	
		58	
		59	
		60	UCSB
		61	Coast Guard
		62	Sheriff / County
		63	Harbor Patrol
		64	Military
		65	USGS
		66	CA Fish + Game
		67	US Fish + Wildlife
		68	CINMS
		69	

Airship Sighting Position at Bearing of 160°

Estimate Distance from Counter Point in meters	
Estimate Altitude above ocean in meters. In Comments:	< 30 30 - 50 > 50

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

Animal Reaction to Vessel

1	Change course to view animal	21	Avoidance of boat
2	Change course to avoid animal	22	Approach boat
3	Approach head on	23	Alteration of normal activities
4	Approach from rear	24	Quick dive
5	Approach at side	25	Long downtime
6	Approach parallel	26	Breach
7	Approach inside 100 m	27	Fluke
8	Travel over submerged animal	28	Spyhop
9	Positioned in path of animal	29	Change direction
10	Crossing path of animal	30	Pec slap
11	Hovering above	31	Tail lob
12	Flying below 30 meters	32	Disappear
13	Contact animal	33	Contact boat
		nd	not determined

>	SIGHT NUMB	CATEGORY	ACTIVITY	TYPE	AGENCY INST/ORG	TIME	SIGHT POS BRNG	RTCL	DIR	ANML S#	VESSEL ACTION	ANIMAL REACT	TIME	TRACK POS BRNG	RTCL	DIR	ANML S#	VESSEL ACTION	ANIMAL REACT	TIME	TRACK POS BRNG	RTCL	DIR	ANML S#	VESSEL ACTION	ANIMAL REACT	TIME	TRACK POS BRNG	RTCL	DIR	ANML S#	VESSEL ACTION	ANIMAL REACT	>	
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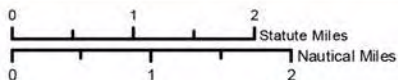
California Department of Fish and Game - South Coast State Marine Protected Areas



Not to be used for navigation. Map boundaries are superseded by regulations published in Title 14, Section 632, California Code of Regulations

Projection Information:

World Mercator
WGS 1984



1:100,000



December 8, 2011

For complete MPA information including boundaries and regulations, please go to <http://www.dfg.ca.gov/mlpa>