



2014 Master Datasheet and Vessel Tracking Log, with Entry Guides



Quasimoda

part of 2014 Gray Whales Count, Survey Report © Gray Whales Count, 2016,
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2014 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, rarely 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	O	other



GRAY WHALES COUNT
SANTA BARBARA CHANNEL

Behaviors

Whales		Dolphins		Sea otters		Pinnipeds	
1	Speed slow	21	Speed slow	41	swimming	61	Slow speed
2	Speed moderate	22	Speed moderate	42	Diving	62	Moderate speed
3	Speed fast	23	Speed fast	43	Interacting (explain)	63	Fast speed
4	Traveling	24	Traveling	44	Grooming	64	Diving
5	Foraging	25	Foraging	45	on back, feeding (what?)	65	Foraging
6	Breach	26	Leap	46	on back, resting	66	in large group
7	Fluke	27	Chorus line	47	in kelp	67	in kelp
8	Bubbles blast	28	Parade line	48	in open water	68	in open water
9	Pec slap	29	Tail slap	49	in surf zone	69	in surf zone
10	Tail lob	30	Bowriding	50	with tags (note color + foot)	70	on sand
11	Spyhop	31	in kelp	51	with gull(s)	71	Resting, Vertical
12	Rolling	32	in surf zone			72	Resting, Horizontal
13	Sharking	33	with (Er)			73	with (Er)
						74	Rescue Attempt
O	Circling	O	Circling	O	Circling	O	Circling
00	Still	00	Still	00	Still	00	Still

Direction of Travel

N	North ↓ (towards mainland)
S	South ↑ (towards islands)
E	East ← (towards Santa Barbara)
W	West → (towards Pt Conception)
O	Circling
00	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 novaeangliae</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 (Lag)	<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.

NO CHNG	QUAL	CL CVR	BEAU	HORIZ CLAR	VIS	CODE	SIGHT NUMB	TIME	CUE TIP	SAW	SIGHT POS		DIR	BEHAVIORS	SP	TOTAL NUMB	CALF NUMB	TRACK POS		DIR	BEHAVIORS	TIME	SAW	TRACK POS		DIR	BEHAVIORS	TIME	SAW	TRACK POS		DIR	BEHAVIORS	HOLL Y	>																			
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	MD	VS	AL	O	O		MD	VS	AL	O	O		MD	VS	AL	O	O	MASTER SHEETS		TIME COUNTING		NUMBER OF SEA OTTERS		(Er) START		(Er) CALF START	
9						11						1						3				(Er) NUMBER OF SIGHTINGS		(Er) TODAY		(Er) CALF TODAY	
10						12						2						4				NUMBER OF HARBOR SEALS		(Er) TOTAL		(Er) CALF TOTAL	

2014 Guide to Codes for Vessel Tracking Log

Vessel Classifications

	Category	Activity	Type	Agency-Institution-Org			
			40	Cruise liner	60	UCSB	
1	Oil Services	11	Crew boat	41	RHIB	61	Coast Guard
2	Touring	12	Oil-spill recovery	42	Boston Whaler	62	Sheriff / County
3	Kelp Harvester	13	Work boat	43	Kayak/canoe	63	Harbor Patrol
4	Fish Commercial	14	Tug	44	Jet-ski	64	Military
5	Private	15	Tug + Barge	45		65	USGS
6	Research	16		46	Stand-up paddler	66	CA Fish + Wildlife
7	Vessel Assist	17	Whale watching	47	Kiteboard/Windsurfer	67	US Fish + Wildlife
8	Enforcement	18		48	Sailboat	68	CINMS
9	Warship	19	Sportfishing	49	Sailboat motoring	69	ChannelKeeper
10	Airship	20	Diving	50	Airplane		
99	other	21	Cruising	51	Helicopter		
		22		52	Blimp		
		23		53			
		24		54			
		25	Lobster/Crab	55			
		26	Urchin diving	56			
		27	Net	57			
		28	Squid	58			
		29	Line	59			

Airship sighting position always at Bearing of 160°

Estimate Distance from Counter Point in meters

Estimate Altitude above ocean in meters, below 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	Bowriding
11	Hovering above	30	Pec slap
12	Flying below 30 meters	31	Tail lobe
13	Contact animal	32	Disappear
		33	Contact boat
		nd	not determined

