## 2009 Master Datasheet and Vessel Tracking Log with Entry Guides



part of **2009 Gray Whales Count, Survey Report** © Gray Whales Count, 2013, prepared by Michael H Smith, Project Coordinator, Gray Whales Count, Santa Barbara, California, USA.

GRAY WHALES COUNT - MASTER - 2009 NORTHBOUND MIGRATION COUNTER POINT, COAL OIL POINT RESERVE, GOLETA, CA Day #\_\_\_\_ 2009 \_\_\_\_ Page \_\_\_\_ of \_\_\_\_ VESSEL SHEETS COMMENTS CALF SHEETS Hours TOTAL COUNT - START OF DAY ER CALVES

OTTERS

COUNT TODAY ER

TOTAL COUNT ER

CALVES

CALVES

Code	Species		Beha	aviors (cetaceans)	Qua	ality
B Begin Count	Er Gray whale (northbound)	Eschrichtius robustus, p 204	1	Slow travel	Ε	Excellent Minimum Visibility 3 nm
W Weather + Sea condition update	Er Gray whale (southbound)	Eschrichtius robustus, p 204	2	Fast travel	G	Good Minimum Visibility 2 nm
S Sighting (Er northbound only)	Tt Bottlenose dolphin	Turciops truncatus, p 358	3	Moderate travel	F	Fair Minimum Visibility 2 nm
SC Sighting (all other cetaceans, incl Er south)	El Sea otter	Enhydra lutris p 42	4	Spyhop	Р	Poor
SV Sighting Vessels	Mn Humpback whale	Megaptera novaeangliae, p 208	5	Rolling		
SO Sighting Sea Otters			6	Breach		
SP Sighting Pinnipeds (rare: Ma; Cu)	ULW unidentified large whale		7	Fluke	Bea	ufort Scale
> continues sighting (same number)	UC unidentified cetacean		8	Bubbles seen	0	Sea like a mirror; glossy, no sparkles in sun;
TO Time Out: Suspend effort (survey)	D sp   Common dolphin species	Delphinus species not determined	9	Milling		sometimes like ice (less than 1 knot)
TI Time In: Resume effort (survey)	Dc Common dolphin, Long-beaked	Delphinus capensis, p 392	10	Pec slap	1	Ripples with the appearance of scales are formed;
T Terminate: End of survey for day	Dd Common dolphin, Short-beaked	Delphinus delphis, p 388	11	Tail lob		like sand paper; matte vs. zero-Beaufort gloss;
	Lo Pacific white-sided dolphin	Lagenorhynchus obliquidens, p 402	0	Still, not moving		sparkles in sun (1 – 3 knots)
	Oo Killer whale	Orcinus orca, p 436	Beha	aviors + Attributes (sea otters)	2	Small wavelets are becoming more articulated.
	Page numbers refer to Marine Mammals of	the World. Consult for rarer species.	30	with tags (note color + foot)		Crests have a glassy appearance: no white caps. (4 - 6 knots)
			31	with gull(s)	3	Large wavelets: foam crests begin to appear,
Direction of Travel	Vessel Types		32	Interacting (explain)		but are widely scattered. (7 - 10 knots)
N North (towards mainland)	1 Oil Services	17	33	Grooming	4	Small waves with more frequent white caps,
S South (towards islands)	2 Barge/Tug	18	34	Swimming		but waves settle instead of breaking; foam along top edge;
E East (towards Santa Barbara)	3 Whale watching	19	35	Diving		waves random, not yet organized (11 - 16 knots)
W West (towards Point Conception)	4 Kelp harvester	20 Freighter	36	in kelp	5	Moderate waves begin to break with more white caps.
0 Not traveling, still	5	21 Kayak/Canoe (beyond kelp)	37	in open water		Becoming organized, lining up (17 - 21 knots)
	6 Private	22 Kite/Wind surfer - interacting	38	in surf zone	Susp	pend effort. At this point, it is very difficult to see animals.
Holly – Whale Route past	7 Dive-private	23 Sailboat	39	on back, resting	6	Many white caps all around with larger waves forming and
l Inside (between shore + Holly)	8 Dive-commercial	24 Sailboat-motor	40	on back feeding (on what)		breaking. Much foam along lines of waves. (22 - 27 knots)
O Outside (beyond Holly)	9 Dive-research	25 Jet ski	nd	not determined		
nd not determined	10 Research vessel	26 Enforcement				
	11 Fish-commercial	27 Blimp	Visil	bility – Clairty of Horizon	Vis	ability - Distance in nautical miles (nm)
Buoys – Whale Route Past	12 Fish-trap-commercial	28 Helicopter	S	Sharp, very clear	3	Equal to or greater than 3 nm (<.1 reticles)
I Inside (between shore + buoys)	13	29 Airplane	F	Fuzzy – haze and/or heat waves	2	Just beyond Holly: Between 2 and 3 nm (.2 to .1 reticles)
O Outside (beyond buoys)	14	nd not determined	NV	Not Visible – fog – in this condition,	1.7	At Holly or Campus Point (.25 reticles)
T Through the buoys	15 Sportfish-commercial			not able to use reticle scale	1	Estimate (horizon likely not distinguishable)
nd not determined	16 Sportfish-private				<1	Estimate (horizon likely not distinguishable)

Direction of Travel	Ves	Vessel Codes						
N North (towards mainland)	1	Oil Services	11	Fish-commercial	21	Kayak/Canoe (beyond kelp)		
S South (towards islands)	2	Barge/Tug	12	Fish-trap-commercial	22	Kite/Wind surfer - interacting		
E East (towards Santa Barbara)	3	Whale watching	13		23	Sailboat		
W West (towards Pt Conception)	4	Kelp harvester	14		24	Sailboat-motor		
0 Still, anchored (not travelling)	5		15	Sportfish-commercial	25	Jet ski		
	6	Private	16	Sportfish-private	26	Enforcement		
	7	Dive-private	17		27	Blimp		
	8	Dive-commercial	18		28	Helicopter		
	9	Dive-research	19		29	Airplane		
	10	Research vessel	20	Freighter	nd	not determined		
Animal Sighting Number		Vessel Action to Animal				Animal Reaction to Vessel		
(potential interaction)		None apparent			0	None apparent		
0 None apparent (no animals near vessel)		Change course to view animal			1	Aviodance of boat		
~ Enter Sighting Number of affected animal(s)		Change course to avoid animal			2	Approach boat		
		Approach head on			3	Alteration of normal activities		
		Approach from rear			4	Quick dive		
		Approach at side			5	Long downtime		
		Approach parallel			9	Contact boat		
		Approach inside 100 m			10	Disappear		
		Travel over submerged animal			11	Tail lob		
		Contact animal			13	Pec slap		
		0				Spyhop		
		Hovering above			15	Rolling		
		Flying below 1000 feet				Breach		
		Flying below 100 feet			17	Fluke		
		not determined			nd	not determined		