

Table 1: All photo-identification data representing yearly survey effort for capture-recapture analysis of French Polynesia humpback whales.

Synoptic Years	1999	2000	2001	2002	2003	2004	2005	2006	2007
Regions photographed	Moorea Rurutu	Moorea Rurutu	Moorea Rurutu	Moorea Rurutu	Moorea Rurutu	Moorea Rurutu Raiatea	Moorea Rurutu	Moorea	Moorea
Usable photos	46	29	27	42	59	62	52	28	61
New sightings per year									
Usable Photos	46	75	102	144	203	265	317	345	406
Cumulative Catalogue Total									
Usable photos	0	1	2	1	3	18	5	6	9
Resights of individuals each year									
Quality Control	22	15	19	31	44	41	20	21	43
New sightings per year									
Quality Control	22	37	56	87	131	172	192	213	256
Cumulative Catalogue Total									
Quality Control	0	0	1	0	3	17	4	6	9
Resights of individuals each year									

Table 2: Abundance estimates of Usable Photos and Quality Control tail fluke photo-identification catalogues for humpback whales of French Polynesia using the Schnabel estimate, closed models calculated by CAPTURE within Program MARK and an open model calculated by JOLLY.

Usable Photos						Quality Control				
	N	SE	CV	95% CI	Model Selection	N	SE	CV	95% CI	Model Selection
Schnabel 1999-2007	1,679	254	0.15	1,181-2,177	--	825	132	0.16	566-1,084	--
Darroch's M(t) 1999-2007	1,824	235	0.13	1,437-2,389	1.0	861	112	0.13	678-1,124	1.0
Darroch's M(t) 2003-2007	1,724	112	0.13	678-1,124	1.0	803	160	0.20	561-1,203	1.0
M _{th} Chao 1999-2007	2,046	318	0.16	1,532-2,798	0.80	949	154	0.16	708-1,321	0.66
M _{th} Chao 2003-2007	1,849	439	0.16	1,197-2,970	0.73	853	206	0.24	556-1,392	0.72
Program Jolly 1999-2007	1,225	500	0.40	246-2,203	--	564	509	0.90	0-1,587	--
Survival Rate Φ	0.82	0.17	--	--	--	0.78	0.15	--	--	--