

REPORT OF THE SOUTHERN HEMISPHERE HUMPBACK WORKSHOP

Childerhouse reported on land based sighting surveys undertaken during the northward migration in 2004 and 2005 at Tory Channel, Cook Strait in New Zealand over a two week period (18 June – 3 July) each year. The purpose of the study was to investigate trends in abundance since whaling had ceased in 1964. Some 140 (2004) and 72 (2005) individuals were estimated to have migrated past during daylight hours; a crude analysis suggested that their numbers were at about 0.23 of the numbers in 1960.

3.6.4 Summary

Table 7 and Fig. 6 summarise the Workshop discussions concerning stock structure for Breeding Stocks E and F.

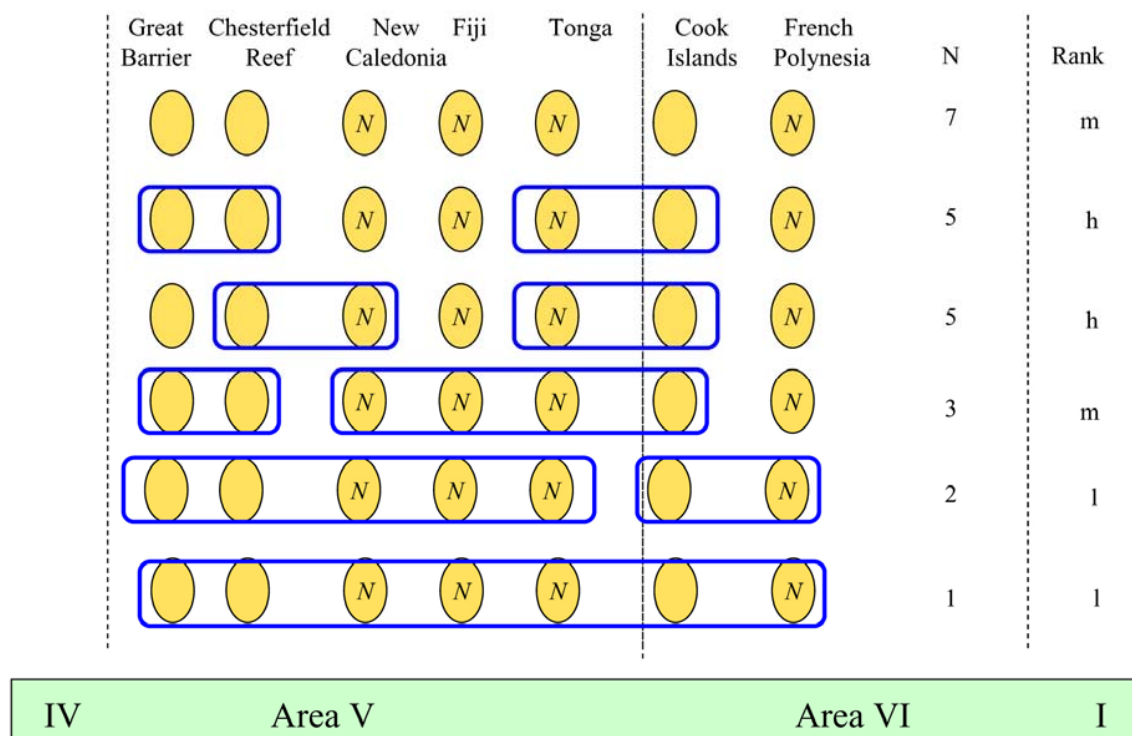


Fig. 6. Schematic diagram showing possible models for stock structure in the South Pacific. N=number of breeding stocks and Rank= l, low; m, medium; h, high.

Table 7a

Models of stock structure for breeding grounds (EA= east Australia (includes Great Barrier Reef except in Model 1); CR=Chester Reef; NC=New Caledonia; Tg= Tonga; CI= Cook Islands; FP=French Polynesia) of the South Pacific. Key: ++ = strongly supports; + = consistent with; ~ = evidence is ambivalent or uninformative; - = evidence is inconsistent with; -- = contradicts

Model	1	2	3	4	5	6
No. Breeding Grounds	7	5	5	3	2	1
	All separate	{EA-CR}; {NC}; {Tg- CI}; {FP}	{EA}; {CR- NC}; {Tg- CI}; {FP}	{EA-CR}; {NC-Tg-CI}; {FP}	E-F separation	All pooled
Rate of increase	+	+	+	+	--	--
Genetic differentiation	+	++	++	-	-	--
Acoustics	+	+	+	-	-	-
Photo-ID return	+	+	+	-	-	--
Photo-ID interchange	-	-	-	+	-	+
Discovery marks	~	~	~	~	-	-

Table 7b