

# Counting mollymawks on Campbell Island—data supplements

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# Introduction

Mollymawk census methods used on Campbell Island were outlined in Moore (1999)<sup>1</sup> to make it easier for future workers to repeat and/or interpret the counts of 1995-1997, and to allow the monitoring of future population trends. The tabulated data supplements on the pages which follow are the results from those surveys.

## EXPLANATIONS OF TERMS USED

The meaning of the words: colony, sector, count type, and count categories (on egg, extra, etc.) are all described fully in Moore (1999)<sup>1</sup>.

### Observer identifications

PM	Peter Moore
SW	Susan Waugh
NP	Nadine Parker
AW	Alan Wiltshire
MC	Matt Charteris
BE	Brent Evans
SH	Sheryl Hamilton

### Bottom line of header

N	Number of counts on the same day
1 <sup>st</sup> , 2 <sup>nd</sup> , 3 <sup>rd</sup>	Counts on that day
Mean	Mean of the multiple counts

### Layout of the tables

Campbell or grey-headed mollymawk census—census of colonies by individual sector

Repeat counts—subsequent counts of selected sectors of colonies

Replicate counts—summary of multiple counts conducted on the same day

Sd—standard deviation

CV—coefficient of variation (%sd/mean)

Method comparisons—count of sector, usually on the same day, using different method

% difference between counts of each category using the first (least intensive) and second (most intensive) method

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<sup>1</sup> Moore, P.J. 1999. Counting mollymawks on Campbell Island—a guide to techniques and field procedures. *Department of Conservation Technical Series 16*.

# Part 1 Campbell mollymawk counts October-November 1995

Counts conducted by Peter Moore and Nadine Parker

Campbell Molyawk Counts October-November 1995																		
Colony	Sector	Observer	Date	Time	Count type	Campbell molyawk												
						On Egg					On Empty Nest				On Nest			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
<b>BULL ROCK SOUTH CENSUS</b>																		
BRS	Square	SW	08/10/95		mark	1	59			59	2			2	61		61	
BRS	a	PM	08/10/95		nest	1	81			81	12			12	93		93	
BRS	b	PM	08/10/95		nest	1	31			31	6			6	37		37	
BRS	c	PM	08/10/95		nest	1	92			92	15			15	107		107	
BRS	d	PM	08/10/95		nest	1	71			71	11			11	82		82	
BRS	GH1	SW	08/10/95		mark	1	0			0	0			0	0		0	
BRS	GH2	SW	08/10/95		mark	1	7			7	0			0	7		7	
BRS	GH3	PM	08/10/95		nest	1	0			0	0			0	0		0	
BRS	bb.tce	PM	10/10/95		ledge	1									1334		1334	
BRS	1	PM	09/10/95		ledge	1									12		12	
BRS	2	PM	09/10/95		ledge	1									40		40	
BRS	3	PM	09/10/95		ledge	1									433		433	
BRS	4	PM	09/10/95		ledge	1									86		86	
BRS	5	PM	09/10/95		ledge	1									982		982	
BRS	6	PM	09/10/95		bho	1									182		182	
BRS	7	PM	09/10/95		bho	1									36		36	
BRS	9	PM	13/10/95		nest	1	169			169	17			17	186		186	
BRS	10	PM	10/10/95		bho	1									140		140	
BRS	11	PM	09/10/95		view	1									217		217	
BRS	12	PM	13/10/95		nest	1	219			219	25			25	244		244	
BRS	13	PM	09/10/95		view	1									226		226	
BRS	14	PM	09/10/95		view	1									250		250	
BRS	15	PM	10/10/95		ledge	1									353		353	
BRS	16	PM	10/10/95		ledge	1									217		217	
BRS	17	PM	10/10/95		view	1									448		448	
BRS	18	PM	10/10/95		view	1									83		83	
BRS	19	PM	10/10/95		ledge	1									190		190	
BRS	20	PM	10/10/95		bho	1									112		112	
BRS	21	PM	10/10/95		ledge	1									1206		1206	
BRS	22	PM	14/10/95		nest	1	309			309	41			41	350		350	
BRS	SorTam	SW	10/10/95		nest	1	222			222	16			16	238		238	
SUM of all counts																	7952	
SUM of nest visit counts										1260				145				1405
% of all birds on a nest																		87.8
% of occupied nests containing an egg										89.7								
% of all birds on an egg										78.8								
Sum of ledge counts																		4853
Sum of view down																		1224
Sum of view bho down																		470
<b>BULL ROCK NORTH CENSUS</b>																		
BRN	1	PM	14/10/95		bho	2									22	24		23
BRN	2	PM	14/10/95		bho	1									64			64
BRN	3	PM	14/10/95		bho	2									135	128		132
BRN	4	PM	14/10/95		bho	2									351	345		348
BRN	5	PM	14/10/95		bho	2									227	230		229
BRN	6	PM	14/10/95		ledge	1									96			96
BRN	7	PM	14/10/95		bho	1									206			206
BRN	8	PM	14/10/95		bho	1									112			112
BRN	9	PM	14/10/95		bho	1									41			41
BRN	10	PM	14/10/95		ledge	1									58			58
BRN	11	PM	14/10/95		ledge	1									230			230
BRN	12a	PM	14/10/95		view	1									352			352
BRN	12b	PM	14/10/95		ledge	1									135			135
BRN	13	PM	14/10/95		ledge	1									357			357
BRN	14	PM	14/10/95		nest	1	123			123	20			20	143			143

Campbell Mollusk Counts October-November 1995														
Extra				Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
1st	2nd	3rd	mean						1st	2nd	3rd	mean		
<b>BULL ROCK SOUTH CENSUS</b>														
0			0	BRS	Square	SW	08/10/95		mark	61			61	
9			9	BRS	a	PM	08/10/95		nest	102			102	
11			11	BRS	b	PM	08/10/95		nest	48			48	
15			15	BRS	c	PM	08/10/95		nest	122			122	
18			18	BRS	d	PM	08/10/95		nest	100			100	
0			0	BRS	GH1	SW	08/10/95		mark	0			0	
0			0	BRS	GH2	SW	08/10/95		mark	7			7	
0			0	BRS	GH3	PM	08/10/95		nest	0			0	
200			200	BRS	bb.tce	PM	10/10/95		ledge	1534			1534	
5			5	BRS	1	PM	09/10/95		ledge	17			17	
1			1	BRS	2	PM	09/10/95		ledge	41			41	
15			15	BRS	3	PM	09/10/95		ledge	448			448	
14			14	BRS	4	PM	09/10/95		ledge	100			100	
98			98	BRS	5	PM	09/10/95		ledge	1080			1080	
56			56	BRS	6	PM	09/10/95		hno	238			238	
0			0	BRS	7	PM	09/10/95		hno	36			36	there is no area 8
70			70	BRS	9	PM	13/10/95		nest	256			256	
34			34	BRS	10	PM	10/10/95		hno	174			174	
49			49	BRS	11	PM	09/10/95		view	266			266	
35			35	BRS	12	PM	13/10/95		nest	279			279	
43			43	BRS	13	PM	09/10/95		view	269			269	
41			41	BRS	14	PM	09/10/95		view	291			291	
56			56	BRS	15	PM	10/10/95		ledge	409			409	
29			29	BRS	16	PM	10/10/95		ledge	246			246	
71			71	BRS	17	PM	10/10/95		view	519			519	
7			7	BRS	18	PM	10/10/95		view	90			90	
31			31	BRS	19	PM	10/10/95		ledge	221			221	
13			13	BRS	20	PM	10/10/95		hno	125			125	
148			148	BRS	21	PM	10/10/95		ledge	1354			1354	
35			35	BRS	22	PM	14/10/95		nest	385			385	
0			0	BRS	SorTam	SW	10/10/95		nest	238			238	
1104				SUM of all counts									9056	
193				SUM of nest visit counts									1598	
				% of all birds on a nest										
				% of occupied nests containing an egg										
				% of all birds on an egg										
597				Sum of ledge counts									5450	
211				Sum of view down									1435	
103				Sum of view hno down									573	
<b>BULL ROCK NORTH CENSUS</b>														
3	6		5	BRN	1	PM	14/10/95		hno	25	30		28	
15			15	BRN	2	PM	14/10/95		hno	79			79	
53	56		55	BRN	3	PM	14/10/95		hno	188	184		186	
92	62		77	BRN	4	PM	14/10/95		hno	443	407		425	
23	31		27	BRN	5	PM	14/10/95		hno	250	261		256	
14			14	BRN	6	PM	14/10/95		ledge	110			110	
29			29	BRN	7	PM	14/10/95		hno	235			235	
19			19	BRN	8	PM	14/10/95		hno	131			131	
4			4	BRN	9	PM	14/10/95		hno	45			45	
17			17	BRN	10	PM	14/10/95		ledge	75			75	
44			44	BRN	11	PM	14/10/95		ledge	274			274	
64			64	BRN	12a	PM	14/10/95		view	416			416	
31			31	BRN	12b	PM	14/10/95		ledge	166			166	
74			74	BRN	13	PM	14/10/95		ledge	431			431	
22			22	BRN	14	PM	14/10/95		nest	165			165	

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk															
						On Egg					On Empty Nest				On Nest						
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
BRN	15	PM	14/10/95		nest	1	18			18	9			9	27			27			
BRN	16/17	PM	14/10/95		view	1									167			167			
BRN	18	PM	14/10/95		view	1									34			34			
SUM of all counts																		2753			
SUM of nest visit counts										141				29				170			
% of all bids on a nest																		83.4			
% of occupied nests containing an egg										82.9											
% of all bids on an egg										71.6											
Sum of ledge counts																		876			
Sum of view down																		553			
Sum of bino view across																		1154			
<b>HOOKERS PENNSULA CENSUS</b>																					
HP	1a	PM	16/10/95		bino down	1									0			0			
HP	1b	PM	16/10/95		bino down	1									38			38			
HP	1c	PM	16/10/95		bino down	1									215			215			
HP	2a	PM	16/10/95		bino down	1									0			0			
HP	2b	PM	16/10/95		bino down	1									46			46			
HP	2c	PM	16/10/95		bino down	1									0			0			
HP	2d	PM	16/10/95		bino down	1									0			0			
HP	3a	PM	16/10/95		bino down	1									0			0			
HP	3b	PM	16/10/95		bino down	1									0			0			
HP	3c1	PM	16/10/95		ledge	1									39			39			
HP	3c2	PM	16/10/95		ledge	1									1			1			
HP	3d	PM	16/10/95		ledge	1									17			17			
HP	3e	PM	16/10/95		ledge	1									19			19			
HP	4	PM	16/10/95		ledge	1									0			0			
SUM of all counts																		375			
% of all bids on a nest																		84.1			
Sum of ledge counts																		76			
Sum of bino view down																		299			
<b>HOOKERS FINGER COMBINED COLONIES CENSUS</b>																					
HF	6a	PM	16/10/95		side	1									57			57			
HF	6b	PM	16/10/95		side	1									18			18			
HF	6c	PM	16/10/95		side	1									330			330			
HF	5a	PM	16/10/95		side	1									150			150			
HF	5b	PM	16/10/95		side	1									93			93			
HF	5c	NP	16/10/95		nest	1	239			239	73		73	312				312			
HF	5d	PM	16/10/95		nest	1	36			36	7		7	43				43			
HF	3a	PM	16/10/95		nest	1	14			14	1		1	15				15			
HF	3b	PM	16/10/95		nest	1	0			0	1		1	1				1			
HF	3c	PM	16/10/95		nest	1	0			0	0		0	0				0			
HF	3d	PM	16/10/95		nest	1	22			22	7		7	29				29			
HF	3e	PM	16/10/95		nest	1	0			0	0		0	0				0			
HF	3f	PM	16/10/95		nest	1	0			0	0		0	0				0			
HF	2a	PM	17/10/95		nest	1	18			18	3		3	21				21			
HF	2b	PM	17/10/95		nest	1	74			74	13		13	87				87			
HF	2c	PM	17/10/95		nest	1	3			3	1		1	4				4			
HF	2d	PM	17/10/95		nest	1	17			17	7		7	24				24			
HF	2e	PM	17/10/95		nest	1	14			14	0		0	14				14			
HF	2f	PM	17/10/95		nest	1	2			2	0		0	2				2			



				Colony	Sector	Observer	Date	Time	Count type	Total birds					
Extra										1st	2nd	3rd	mean	comments	
1st	2nd	3rd	mean												
5			5	BRN	15	PM	14/10/95		nest	32			32		
39			39	BRN	16/17	PM	14/10/95		view	206			206		
8			8	BRN	18	PM	14/10/95		view	42			42		
			548	SUM of all counts										3301	
			27	SUM of nest visit counts										197	
				% of all bids on a nest											
				% of occupied nests containing an egg											
				% of all bids on an egg											
			180	Sum of ledge counts										1056	
			111	Sum of view down										664	
			230	Sum of bino view across										1384	
<b>HOOKERS PENINSULA CENSUS</b>															
			0	HP	1a	PM	16/10/95		bino down	0			0	view from top	
12			12	HP	1b	PM	16/10/95		bino down	50			50	view from top	
35			35	HP	1c	PM	16/10/95		bino down	250			250	view from top	
0			0	HP	2a	PM	16/10/95		bino down	0			0	view from top	
13			13	HP	2b	PM	16/10/95		bino down	59			59	view from 2nd tier	
0			0	HP	2c	PM	16/10/95		bino down	0			0	view from 2nd tier	
0			0	HP	2d	PM	16/10/95		bino down	0			0	view from 2nd tier	
0			0	HP	3a	PM	16/10/95		bino down	0			0	view from top	
0			0	HP	3b	PM	16/10/95		bino down	0			0	view from top	
7			7	HP	3c1	PM	16/10/95		ledge	46			46		
0			0	HP	3c2	PM	16/10/95		ledge	1			1		
0			0	HP	3d	PM	16/10/95		ledge	17			17		
4			4	HP	3e	PM	16/10/95		ledge	23			23		
0			0	HP	4	PM	16/10/95		ledge	0			0		
			71	SUM of all counts										446	
				% of all bids on a nest											
			11	Sum of ledge counts										87	
			60	Sum of bino view down										359	
<b>HOOKERS FINGER COMBINED COLONIES CENSUS</b>															
7			7	HF	6a	PM	16/10/95		side	64			64		
6			6	HF	6b	PM	16/10/95		side	24			24		
82			82	HF	6c	PM	16/10/95		side	412			412		
26			26	HF	5a	PM	16/10/95		side	176			176		
29			29	HF	5b	PM	16/10/95		side	122			122		
54			54	HF	5c	NP	16/10/95		nest	366			366		
13			13	HF	5d	PM	16/10/95		nest	56			56		
5			5	HF	3a	PM	16/10/95		nest	20			20	ledge count at cbse quarters	
0			0	HF	3b	PM	16/10/95		nest	1			1	ledge count at cbse quarters	
0			0	HF	3c	PM	16/10/95		nest	0			0	ledge count at cbse quarters	
10			10	HF	3d	PM	16/10/95		nest	39			39	ledge count at cbse quarters	
0			0	HF	3e	PM	16/10/95		nest	0			0	ledge count at cbse quarters	
0			0	HF	3f	PM	16/10/95		nest	0			0	ledge count at cbse quarters	
5			5	HF	2a	PM	17/10/95		nest	26			26		
16			16	HF	2b	PM	17/10/95		nest	103			103		
0			0	HF	2c	PM	17/10/95		nest	4			4		
7			7	HF	2d	PM	17/10/95		nest	31			31		
0			0	HF	2e	PM	17/10/95		nest	14			14		
0			0	HF	2f	PM	17/10/95		nest	2			2		

Colony	Sector	Observer	Date	Time	Count type	Campbell molyawk															
						On Egg					On Empty Nest				On Nest						
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
HF	2g	PM	17/10/95		nest	1	19			19	2			2	21			21			
HF	2h	PM	17/10/95		nest	1	24			24	6			6	30			30			
HF	2i	PM	17/10/95		nest	1	45			45	9			9	54			54			
HF	2j	PM	17/10/95		bno	1									2			2			
HF	2k	PM	17/10/95		bno	1									0			0			
HF	2l	PM	17/10/95		bno	1									0			0			
HF	2m	PM	17/10/95		nest	1	0			0	2			2	2			2			
HF	2n	PM	17/10/95		nest	1	0			0	0			0	0			0			
SUM of all counts																		1309			
SUM of nest visit counts										527				132				659			
% of all birds on a nest																		82.5			
% of occupied nests containing an egg										80.0											
% of all birds on an egg										67.0											
Sum of ledge/side counts																		648			
Sum of bno across																		2			
<b>HOOKERS FINGER COLONY 6 CENSUS</b>																					
HF	6a	PM	16/10/95		side	1									57			57			
HF	6b	PM	16/10/95		side	1									18			18			
HF	6c	PM	16/10/95		side	1									330			330			
SUM of all counts																		405			
% of all birds on a nest																		81.0			
<b>HOOKERS FINGER COLONY 5 CENSUS</b>																					
HF	5a	PM	16/10/95		side	1									150			150			
HF	5b	PM	16/10/95		side	1									93			93			
HF	5c	NP	16/10/95		nest	1	239			239	73			73	312			312			
HF	5d	PM	16/10/95		nest	1	36			36	7			7	43			43			
SUM of all counts																		598			
SUM of nest visit counts										275				80				355			
% of all birds on a nest																		83.1			
% of occupied nests containing an egg										77.5											
% of all birds on an egg										65.2											
<b>HOOKERS FINGER COLONY 3 CENSUS</b>																					
HF	3a	PM	16/10/95		nest	1	14			14	1			1	15			15			
HF	3b	PM	16/10/95		nest	1	0			0	1			1	1			1			
HF	3c	PM	16/10/95		nest	1	0			0	0			0	0			0			
HF	3d	PM	16/10/95		nest	1	22			22	7			7	29			29			
HF	3e	PM	16/10/95		nest	1	0			0	0			0	0			0			
HF	3f	PM	16/10/95		nest	1	0			0	0			0	0			0			
SUM of all counts																		45			
SUM of nest visit counts										36				9				45			
% of all birds on a nest																		75.0			
% of occupied nests containing an egg										80.0											
% of all birds on an egg										60.0											

				Colony	Sector	Observer	Date	Time	Count type	Total bids				Comments	
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean		
	1			1	HF	2g	PM	17/10/95	nest	22			22		
	7			7	HF	2h	PM	17/10/95	nest	37			37		
	9			9	HF	2i	PM	17/10/95	nest	63			63		
	0			0	HF	2j	PM	17/10/95	bino	2			2		
	0			0	HF	2k	PM	17/10/95	bino	0			0		
	0			0	HF	2l	PM	17/10/95	bino	0			0		
	0			0	HF	2m	PM	17/10/95	nest	2			2		
	0			0	HF	2n	PM	17/10/95	nest	0			0		
				277	SUM of all counts									1586	
				127	SUM of nest visit counts									786	
					% of all bids on a nest										
					% of occupied nests containing an egg										
					% of all bids on an egg										
				150	Sum of ledge/side counts									798	
				0	Sum of bino across									2	
					HOOKERS FINGER COLONY 6 CENSUS										
	7			7	HF	6a	PM	16/10/95	side	64			64		
	6			6	HF	6b	PM	16/10/95	side	24			24		
	82			82	HF	6c	PM	16/10/95	side	412			412		
				95	SUM of all counts									500	
					% of all bids on a nest										
					HOOKERS FINGER COLONY 5 CENSUS										
	26			26	HF	5a	PM	16/10/95	side	176			176		
	29			29	HF	5b	PM	16/10/95	side	122			122		
	54			54	HF	5c	NP	16/10/95	nest	366			366		
	13			13	HF	5d	PM	16/10/95	nest	56			56		
				122	SUM of all counts									720	
				67	SUM of nest visit counts									422	
					% of all bids on a nest										
					% of occupied nests containing an egg										
					% of all bids on an egg										
					HOOKERS FINGER COLONY 3 CENSUS										
	5			5	HF	3a	PM	16/10/95	nest	20			20	ledge count at cbse quarters	
	0			0	HF	3b	PM	16/10/95	nest	1			1	ledge count at cbse quarters	
	0			0	HF	3c	PM	16/10/95	nest	0			0	ledge count at cbse quarters	
	10			10	HF	3d	PM	16/10/95	nest	39			39	ledge count at cbse quarters	
	0			0	HF	3e	PM	16/10/95	nest	0			0	ledge count at cbse quarters	
	0			0	HF	3f	PM	16/10/95	nest	0			0	ledge count at cbse quarters	
				15	SUM of all counts									60	
				15	SUM of nest visit counts									60	
					% of all bids on a nest										
					% of occupied nests containing an egg										
					% of all bids on an egg										

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk															
						On Egg					On Empty Nest				On Nest						
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
<b>HOOKERS FINGER COLONY 2 CENSUS</b>																					
HF	2a	PM	17/10/95		nest	1	18			18	3			3	21		21				
HF	2b	PM	17/10/95		nest	1	74			74	13			13	87		87				
HF	2c	PM	17/10/95		nest	1	3			3	1			1	4		4				
HF	2d	PM	17/10/95		nest	1	17			17	7			7	24		24				
HF	2e	PM	17/10/95		nest	1	14			14	0			0	14		14				
HF	2f	PM	17/10/95		nest	1	2			2	0			0	2		2				
HF	2g	PM	17/10/95		nest	1	19			19	2			2	21		21				
HF	2h	PM	17/10/95		nest	1	24			24	6			6	30		30				
HF	2i	PM	17/10/95		nest	1	45			45	9			9	54		54				
HF	2j	PM	17/10/95		bho	1								2			2				
HF	2k	PM	17/10/95		bho	1								0			0				
HF	2l	PM	17/10/95		bho	1								0			0				
HF	2m	PM	17/10/95		nest	1	0			0	2			2	2		2				
HF	2n	PM	17/10/95		nest	1	0			0	0			0	0		0				
SUM of all counts																	261				
SUM of nest visit counts										216				43				259			
% of all bids on a nest																		85.3			
% of occupied nests containing an egg										83.4											
% of all bids on an egg										71.1											
<b>COURREJOLLES ISTHMUS CENSUS</b>																					
C1	1a	PM	17/10/95		nest	1	0			0	0			0	0			0			
C1	1b	PM	17/10/95		nest	1	0			0	0			0	0			0			
C1	1c	PM	17/10/95		nest	1	1			1	3			3	4			4			
C1	1d	PM	17/10/95		nest	1	2			2	0			0	2			2			
C1	1e	PM	17/10/95		nest	1	10			10	0			0	10			10			
C1	1f	PM	17/10/95		nest	1	34			34	11			11	45			45			
C1	JDK	PM	17/10/95		nest	1	14			14	8			8	22			22			
SUM of all counts																		83			
SUM of nest visit counts										61				22				83			
% of all bids on a nest																		83.8			
% of occupied nests containing an egg										73.5											
% of all bids on an egg										61.6											
<b>EASTERN COLONIES CENSUS</b>																					
EC	1	PM	22/10/95		bho	1									5			5			
EC	2	PM	22/10/95		varbus	1									25			25			
EC	3	PM	22/10/95		varbus	1									32			32			
EC	4	PM	22/10/95		varbus	1									15			15			
EC	5	PM	22/10/95		varbus	1									81			81			
EC	6	PM	22/10/95		varbus	1									50			50			
EC	7	PM	22/10/95		varbus	1									50			50			
EC	8	PM	22/10/95		varbus	1									4			4			
EC	9	PM	22/10/95		varbus	1									0			0			
EC	10	PM	22/10/95		varbus	1									3			3			
EC	11	PM	22/10/95		varbus	1									21			21			
EC	12	PM	22/10/95		varbus	1									0			0			
EC	13	PM	22/10/95		varbus	1									54			54			
EC	14	PM	22/10/95		varbus	1									0			0			
EC	15	PM	22/10/95		ledge	1									1557			1557			
EC	16	PM	22/10/95		varbus	1									19			19			
EC	17	PM	22/10/95		varbus	1									9			9			
EC	18	PM	22/10/95		varbus	1									8			8			
EC	19	PM	22/10/95		varbus	1									1			1			

				Col-ony	Sector	Obs-erver	Date	Time	Count type	Total birds					
Extra										1st	2nd	3rd	mean	com m ents	
1st	2nd	3rd	mean												
<b>HOOKERS FINGER COLONY 2 CENSUS</b>															
5			5	HF	2a	PM	17/10/95		nest	26			26		
16			16	HF	2b	PM	17/10/95		nest	103			103		
0			0	HF	2c	PM	17/10/95		nest	4			4		
7			7	HF	2d	PM	17/10/95		nest	31			31		
0			0	HF	2e	PM	17/10/95		nest	14			14		
0			0	HF	2f	PM	17/10/95		nest	2			2		
1			1	HF	2g	PM	17/10/95		nest	22			22		
7			7	HF	2h	PM	17/10/95		nest	37			37		
9			9	HF	2i	PM	17/10/95		nest	63			63		
0			0	HF	2j	PM	17/10/95		bino	2			2		
0			0	HF	2k	PM	17/10/95		bino	0			0		
0			0	HF	2l	PM	17/10/95		bino	0			0		
0			0	HF	2m	PM	17/10/95		nest	2			2		
0			0	HF	2n	PM	17/10/95		nest	0			0		
			45	SUM of all counts										306	
			45	SUM of nest visit counts										304	
				% of all birds on a nest											
				% of occupied nests containing an egg											
				% of all birds on an egg											
<b>COURREJOLLES ISTHMUS CENSUS</b>															
0			0	C1	1a	PM	17/10/95		nest	0			0		
0			0	C1	1b	PM	17/10/95		nest	0			0		
4			4	C1	1c	PM	17/10/95		nest	8			8		
0			0	C1	1d	PM	17/10/95		nest	2			2		
1			1	C1	1e	PM	17/10/95		nest	11			11		
9			9	C1	1f	PM	17/10/95		nest	54			54		
2			2	C1	JDK	PM	17/10/95		nest	24			24		
			16	SUM of all counts										99	
			16	SUM of nest visit counts										99	
				% of all birds on a nest											
				% of occupied nests containing an egg											
				% of all birds on an egg											
<b>EASTERN COLONIES CENSUS</b>															
0			0	EC	1	PM	22/10/95		bino	5			5	count types were a combination of ledge, side views and views down	
8			8	EC	2	PM	22/10/95		varbus	33			33		
3			3	EC	3	PM	22/10/95		varbus	35			35		
5			5	EC	4	PM	22/10/95		varbus	20			20		
5			5	EC	5	PM	22/10/95		varbus	86			86		
13			13	EC	6	PM	22/10/95		varbus	63			63		
6			6	EC	7	PM	22/10/95		varbus	56			56		
0			0	EC	8	PM	22/10/95		varbus	4			4		
0			0	EC	9	PM	22/10/95		varbus	0			0		
0			0	EC	10	PM	22/10/95		varbus	3			3		
2			2	EC	11	PM	22/10/95		varbus	23			23		
0			0	EC	12	PM	22/10/95		varbus	0			0		
17			17	EC	13	PM	22/10/95		varbus	71			71		
0			0	EC	14	PM	22/10/95		varbus	0			0		
236			236	EC	15	PM	22/10/95		ledge	1793			1793		
4			4	EC	16	PM	22/10/95		varbus	23			23		
5			5	EC	17	PM	22/10/95		varbus	14			14		
2			2	EC	18	PM	22/10/95		varbus	10			10		
0			0	EC	19	PM	22/10/95		varbus	1			1		

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																	
						On Egg					On Empty Nest				On Nest								
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean					
EC	20	PM	22/10/95		varbus	1												10			10		
EC	21	PM	22/10/95		varbus	1												0			0		
EC	22	PM	22/10/95		varbus	1												2			2		
EC	23	PM	22/10/95		varbus	1												138			138		
EC	24	PM	22/10/95		varbus	1												32			32		
SUM of all counts																					2116		
% of all birds on a nest																						85.3	
<b>ISLE DE JEANETTE MARIE TELESCOPE COUNT</b>																							
DJ		PM	?		tele	1																	
SUM of all counts																							
Campbell mollymawk Summary Oct. 1995																							
Eastern colonies						SUM of all counts															2116		
BullRock South						SUM of all counts															7952		
BullRock North						SUM of all counts															2753		
Hookers Peninsula						SUM of all counts															375		
Hookers Finger						SUM of all counts															1309		
Counes Isles Isthmus						SUM of all counts															83		
Isle de Jeanette Marie						telescope count of total birds minus estimated extras															116		
Counes Isles Peninsula						Photo count of total birds minus mean grey-head telescope count (96.97), minus est. extras															7729		
Total:																					22433		
BullRock South						SUM of nest visit counts					1260						145						1405
BullRock North						SUM of nest visit counts					141						29						170
Hookers Finger						SUM of nest visit counts					527						132						659
Counes Isles Isthmus						SUM of nest visit counts					61						22						83
Total:											1989						328						2317
% of all birds on a nest																							86.5
% of occupied nests containing an egg																							85.8
% of all birds on an egg																							74.2
<b>EDGE COUNTS</b>																							
Eastern colonies						Sum of all counts - mostly edge counts															2116		
BullRock South						Sum of edge counts															4853		
BullRock North						Sum of edge counts															876		
Hookers Peninsula						Sum of edge counts															76		
Hookers Finger						Sum of edge/side counts															648		
BullRock South						Sum of view down															1224		
BullRock North						Sum of view down															553		
BullRock South						Sum of bino down															470		
Hookers Peninsula						Sum of bino down															299		
BullRock North						Sum of bino view across															1154		
Hookers Finger						Sum of bino across															2		
Sum of nest visits																					2317		
Sum of edge counts																					8569		
Sum of view down																					1777		
Sum of bino view down																					769		
Sum of bino across																					1156		
Sum of telescope counts																					7845		
Total:																					22433		
% of all birds on a nest																					87.3		

				Colony	Sector	Observer	Date	Time	Count type						
Extra										Total bids					
1st	2nd	3rd	mean							1st	2nd	3rd	mean	com m ents	
2			2	EC	20	PM	22/10/95		varbus	12			12		
0			0	EC	21	PM	22/10/95		varbus	0			0		
0			0	EC	22	PM	22/10/95		varbus	2			2		
53			53	EC	23	PM	22/10/95		varbus	191			191		
4			4	EC	24	PM	22/10/95		varbus	36			36		
			365	SUM of all counts										2481	
				% of all bids on a nest											
ISLE DE JEANETTE MARIE TELESCOPE COUNT															
				DJ		PM	?		tele	134			134	check this	
				SUM of all counts										134	
Cam pbell M o l l y m a w k S u m m a r y O c t. 1995															
			365	Eastern colonies										2481	
			1104	BullRock South										9056	
			548	BullRock North										3301	
			71	Hookers Peninsula										446	
			277	Hookers Finger										1586	
			16	Counse ples Isthm us										99	
			18	Isle de Jeanette Marie						telescope count of total bids				134	
			1211	Counse ples Peninsula						Photo count of total bids				8940	
										minus telescope estimate of grey-heads					
			3610	Total										26043	
			193	BullRock South						SUM of nest visit counts				1598	
			27	BullRock North						SUM of nest visit counts				197	
			127	Hookers Finger						SUM of nest visit counts				786	
			16	Counse ples Isthm us						SUM of nest visit counts				99	
			363	Total										2680	
				% of all bids on a nest											
				% of occupied nests containing an egg											
				% of all bids on an egg											
			365	Eastern colonies						Sum of all counts - mostly ledge counts				2481	
			597	BullRock South						Sum of ledge counts				5450	
			180	BullRock North						Sum of ledge counts				1056	
			11	Hookers Peninsula						Sum of ledge counts				87	
			150	Hookers Finger						Sum of ledge/side counts				798	
			211	BullRock South						Sum of view down				1435	
			111	BullRock North						Sum of view down				664	
			103	BullRock South						Sum of bino down				573	
			60	Hookers Peninsula						Sum of bino down				359	
			230	BullRock North						Sum of bino view across				1384	
			0	Hookers Finger						Sum of bino across				2	
			363	Sum of nest visits										2680	
			1303	Sum of ledge counts										9872	
			322	Sum of view down										2099	
			103	Sum of bino view down										573	
			230	Sum of bino across										1386	
			1229	Sum of telescope counts										9074	
			3550	Total										25684	
				% of all bids on a nest											

Colony	Sector	Observer	Date	Time	Count type	Campbell molyawk															
						On Egg					On Empty Nest				On Nest						
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
<b>BULL ROCK SOUTH REPEAT COUNTS</b>																					
BRS	a	PM	08/10/95		nest	1	81			81	12			12	93		93				
BRS	a	PM	30/10/95		nest	1	74			74	9			9	83		83				
BRS	a	PM	13/11/95		nest	1	73			73	13			13	86		86				
BRS	b	PM	08/10/95		nest	1	31			31	6			6	37		37				
BRS	b	PM	30/10/95		nest	1	29			29	2			2	31		31				
BRS	b	PM	13/11/95		nest	1	28			28	3			3	31		31				
BRS	c	PM	08/10/95		nest	1	92			92	15			15	107		107				
BRS	c	PM	30/10/95		nest	1	85			85	11			11	96		96				
BRS	c	PM	13/11/95		nest	1	89			89	18			18	107		107				
BRS	d	PM	08/10/95		nest	1	71			71	11			11	82		82				
BRS	d	PM	30/10/95		nest	1	70			70	9			9	79		79				
BRS	d	PM	13/11/95		nest	1	63			63	14			14	77		77				
BRS	9	PM	08/10/95		nest	1	169			169	17			17	186		186				
BRS	9	PM	30/10/95		nest	1	155			155	20			20	175		175				
BRS	9	PM	13/11/95		nest	1	152			152	19			19	171		171				
BRS	12	PM	13/10/95		nest	1	229			229	25			25	254		254				
BRS	12	PM	30/10/95		nest	1	218			218	21			21	239		239				
BRS	12	PM	13/11/95		nest	1	204			204	35			35	239		239				
BRS	10	PM	13/10/95		nest	1	309			309	41			41	350		350				
BRS	10	PM	30/10/95		nest	1	291			291	49			49	340		340				
BRS	10	PM	13/11/95		nest	1	291			291	56			56	347		347				
<b>BULL ROCK NORTH REPEAT COUNTS</b>																					
BRN	14	PM	15/10/95		nest	1	123			123	20			20	143		143				
BRN	14	PM	30/10/95		nest	1	112			112	24			24	136		136				
BRN	14	PM	13/11/95		nest	1	104			104	20			20	124		124				
BRN	15	PM	15/10/95		nest	1	18			18	9			9	27		27				
BRN	15	PM	30/10/95		nest	1	19			19	6			6	25		25				
BRN	15	PM	13/11/95		nest	1	17			17	5			5	22		22				
<b>HOOKEYS FINGER REPEAT COUNTS</b>																					
HF	2b	PM	17/10/95		nest	1	74			74	13			13	87		87				
HF	2b	PM	29/10/95		nest	1	71			71	14			14	85		85				
HF	2b	PM	14/11/95		nest	1	71			71	16			16	87		87				
HF	2h	PM	17/10/95		nest	1	24			24	6			6	30		30				
HF	2h	PM	29/10/95		nest	1	20			20	3			3	23		23				
HF	2h	PM	14/11/95		nest	1	22			22	3			3	25		25				
HF	3a	PM	16/10/95		nest	1	14			14	1			1	15		15				
HF	3a	PM	29/10/95		nest	1	14			14	7			7	21		21				
HF	3a	PM	14/11/95		nest	1	12			12	4			4	16		16				
HF	5c	NP	16/10/95		nest	1	239			239	73			73	312		312				
HF	5c	NP	29/10/95		nest	1	230			230	48			48	278		278				
HF	5c	NP	14/11/95		nest	1	162			162	37			37	199		199				
HF	5d	GM	25/09/95		ledge?	1								51		51					
HF	5d	PM	16/10/95		nest	1	36			36	7			7	43		43				
HF	5d	SW	24/10/95		mark	1	34			34											
HF	5d	PM	29/10/95		mark	1	32			32	12			12	44		44				
HF	5d	PM	14/11/95		mark	1	28			28	12			12	40		40				
HF	6	SW	24/10/95		mark	1	16			16											
HF	6	PM	29/10/95		mark	1	16			16											
HF	6	PM	14/11/95		mark	1	15			15											



				Col-ony	Sector	Obs-erver	Date	Time	Count type	Total birds				com m ents
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean	
<b>BULL ROCK SOUTH REPEAT COUNTS</b>														
				9	BRS	a	PM	08/10/95		nest	102			102
				10	BRS	a	PM	30/10/95		nest	93			93
				15	BRS	a	PM	13/11/95		nest	101			101
				11	BRS	b	PM	08/10/95		nest	48			48
				1	BRS	b	PM	30/10/95		nest	32			32
				6	BRS	b	PM	13/11/95		nest	37			37
				15	BRS	c	PM	08/10/95		nest	122			122
				18	BRS	c	PM	30/10/95		nest	114			114
				18	BRS	c	PM	13/11/95		nest	125			125
				18	BRS	d	PM	08/10/95		nest	100			100
				22	BRS	d	PM	30/10/95		nest	101			101
				19	BRS	d	PM	13/11/95		nest	96			96
				70	BRS	9	PM	08/10/95		nest	256			256
				32	BRS	9	PM	30/10/95		nest	207			207
				35	BRS	9	PM	13/11/95		nest	206			206
				35	BRS	12	PM	13/10/95		nest	289			289
				43	BRS	12	PM	30/10/95		nest	282			282
				36	BRS	12	PM	13/11/95		nest	275			275
				35	BRS	10	PM	13/10/95		nest	385			385
				29	BRS	10	PM	30/10/95		nest	369			369
				28	BRS	10	PM	13/11/95		nest	375			375
<b>BULL ROCK NORTH REPEAT COUNTS</b>														
				22	BRN	14	PM	15/10/95		nest	165			165
				25	BRN	14	PM	30/10/95		nest	161			161
				26	BRN	14	PM	13/11/95		nest	150			150
				5	BRN	15	PM	15/10/95		nest	32			32
				5	BRN	15	PM	30/10/95		nest	30			30
				2	BRN	15	PM	13/11/95		nest	24			24
<b>HOOKERS FINGER REPEAT COUNTS</b>														
				16	HF	2b	PM	17/10/95		nest	103			103
				14	HF	2b	PM	29/10/95		nest	99			99
				12	HF	2b	PM	14/11/95		nest	99			99
				7	HF	2h	PM	17/10/95		nest	37			37
				1	HF	2h	PM	29/10/95		nest	24			24
				2	HF	2h	PM	14/11/95		nest	27			27
				5	HF	3a	PM	16/10/95		nest	20			20
				2	HF	3a	PM	29/10/95		nest	23			23
				0	HF	3a	PM	14/11/95		nest	16			16
				54	HF	5c	NP	16/10/95		nest	366			366
				42	HF	5c	NP	29/10/95		nest	320			320
				37	HF	5c	NP	14/11/95		nest	236			236
					HF	5d	GM	25/09/95		ledge?	51			51
				13	HF	5d	PM	16/10/95		nest	56			56
					HF	5d	SW	24/10/95		m ark				nests m arked on this date
				8	HF	5d	PM	29/10/95		m ark	52			52
				8	HF	5d	PM	14/11/95		m ark	48			48
					HF	6	SW	24/10/95		m ark				nests m arked on this date
					HF	6	PM	29/10/95		m ark				
					HF	6	PM	14/11/95		m ark				

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk															
						On Egg					On Empty Nest				On Nest						
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
<b>COURREJOLLES ISTHMUS REPEAT COUNTS</b>																					
C1	JDK	GM	25/09/95		ledge?	1											22		22		
C1	JDK	PM	17/10/95		nest	1	14			14	8			8			22		22		
C1	JDK	PM	29/10/95		nest	1	12			12	3			3			15		15		
C1	JDK	PM	14/11/95		nest	1	10			10	6			6			16		16		
C1	1e	GM	25/09/95		ledge?	1											10		10		
C1	1e	PM	17/10/95		nest	1	10			10	0			0			10		10		
C1	1e	PM	29/10/95		nest	1	9			9	0			0			9		9		
C1	1e	PM	14/11/95		nest	1	9			9	1			1			10		10		
C1	1f	GM	25/09/95		ledge?	1											41		41		
C1	1f	PM	17/10/95		nest	1	34			34	11			11			45		45		
C1	1f	PM	29/10/95		nest	1	30			30	7			7			37		37		
C1	1f	PM	14/11/95		nest	1	29			29	10			10			39		39		
<b>REPLICATE BNO ACROSS OR DOWN COUNTS</b>																					
BRN	1	PM	14/10/95		bno	2											22	24	23		
						sd	CV										1.4	6.1			
BRN	3	PM	14/10/95		bno	2											135	128	132		
						sd	CV										4.9	3.8			
BRN	4	PM	14/10/95		bno	2											351	345	348		
						sd	CV										4.2	1.2			
BRN	5	PM	14/10/95		bno	2											227	230	229		
						sd	CV										2.1	0.9			
<b>METHOD COMPARISONS</b>																					
BRS	9	PM	09/10/95		ledge	1											161		161		
BRS	9	PM	09/10/95		nest	1	141			141	29			29			170		170		
																			-5.3		
BRS	12	PM	09/10/95		ledge	1											267		267		
BRS	12	PM	13/10/95		nest	1	229			229	25			25			254		254		
																			5.1		
BRS	22	PM	10/10/95		ledge	1											322		322		
BRS	22	PM	14/10/95		nest	1	309			309	41			41			350		350		
																			-8.0		
BRN	14,15	PM	15/10/95		ledge	1											161		161		
BRN	14,15	PM	15/10/95		nest	1	141			141	29			29			170		170		
																			-5.3		
BRN	6	PM	15/10/95		bno	1											97		97		
BRN	6	PM	15/10/95		ledge	1											96		96		
																			1.0		
BRN	10	PM	15/10/95		bno	1											64		64		
BRN	10	PM	15/10/95		ledge	1											58		58		
																			10.3		

				Colony	Sector	Observer	Date	Time	Count type					
Extra										Total birds				
1st	2nd	3rd	mean							1st	2nd	3rd	mean	comments
<b>COURREJOLLES ISTHMUS REPEAT COUNTS</b>														
				CJ	JDK	GM	25/09/95		ledge?	22			22	
2			2	CJ	JDK	PM	17/10/95		nest	24			24	
2			2	CJ	JDK	PM	29/10/95		nest	17			17	
2			2	CJ	JDK	PM	14/11/95		nest	18			18	
				CJ	1e	GM	25/09/95		ledge?	10			10	
1			1	CJ	1e	PM	17/10/95		nest	11			11	
1			1	CJ	1e	PM	29/10/95		nest	10			10	
1			1	CJ	1e	PM	14/11/95		nest	11			11	
				CJ	1f	GM	25/09/95		ledge?	41			41	
9			9	CJ	1f	PM	17/10/95		nest	54			54	
4			4	CJ	1f	PM	29/10/95		nest	41			41	
4			4	CJ	1f	PM	14/11/95		nest	43			43	
<b>REPLICATE BNO ACROSS OR DOWN COUNTS</b>														
3	6		5	BRN	1	PM	14/10/95		bio	25	30		28	
	2.1	47.1									3.5	12.9		
53	56		55	BRN	3	PM	14/10/95		bio	188	184		186	
	2.1	3.9									2.8	1.5		
92	62		77	BRN	4	PM	14/10/95		bio	443	407		425	
	21.2	27.5									25.5	6.0		
23	31		27	BRN	5	PM	14/10/95		bio	250	261		256	
	5.7	21.0									7.8	3.0		
<b>METHOD COMPARISONS</b>														
37			37	BRS	9	PM	09/10/95		ledge	198			198	
27			27	BRS	9	PM	09/10/95		nest	197			197	
		37.0			% difference							0.5		
51			51	BRS	12	PM	09/10/95		ledge	318			318	
35			35	BRS	12	PM	13/10/95		nest	289			289	
		45.7			% difference							10.0		
49			49	BRS	22	PM	10/10/95		ledge	371			371	
35			35	BRS	22	PM	14/10/95		nest	385			385	
		40.0			% difference							-3.6		
37			37	BRN	14,15	PM	15/10/95		ledge	198			198	
27			27	BRN	14,15	PM	15/10/95		nest	197			197	
		37.0			% difference							0.5		
5			5	BRN	6	PM	15/10/95		bio	102			102	
14			14	BRN	6	PM	15/10/95		ledge	110			110	
		-64.3			% difference							-7.3		
9			9	BRN	10	PM	15/10/95		bio	73			73	
17			17	BRN	10	PM	15/10/95		ledge	75			75	
		-47.1			% difference							-2.7		

# Part 2 Grey-headed mollymawk counts October–November 1995

Counts conducted by Peter Moore and Nadine Parker

Grey-headed Mollymawk Counts October-November 1995																		
Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk												
						On Egg				On Empty Nest				On Nest				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
<b>BULL ROCK SOUTH CENSUS</b>																		
BRS	Square	SW	08/10/95		mark	1	0			0	0			0	0			0
BRS	a	PM	08/10/95		nest	1	0			0	0			0	0			0
BRS	b	PM	08/10/95		nest	1	0			0	0			0	0			0
BRS	c	PM	08/10/95		nest	1	6			6	0			0	6			6
BRS	d	PM	08/10/95		nest	1	11			11	1			1	12			12
BRS	GH1	SW	08/10/95		mark	1	41			41	0			0	41			41
BRS	GH2	SW	08/10/95		mark	1	39			39	0			0	39			39
BRS	GH3	PM	08/10/95		nest	1	13			13	6			6	19			19
BRS	bb.tce	PM	10/10/95		ledge	1								7				7
BRS	1	PM	09/10/95		ledge	1								0				0
BRS	2	PM	09/10/95		ledge	1								10				10
BRS	3	PM	09/10/95		ledge	1								85				85
BRS	4	PM	09/10/95		ledge	1								28				28
BRS	5	PM	09/10/95		ledge	1								40				40
BRS	6	PM	09/10/95		bno	1								24				24
BRS	7	PM	09/10/95		bno	1								8				8
BRS	9	PM	13/10/95		nest	1	1			1	0			0	1			1
BRS	10	PM	10/10/95		bno	1								12				12
BRS	11	PM	09/10/95		view	1								0				0
BRS	12	PM	13/10/95		nest	1	0			0	0			0	0			0
BRS	13	PM	09/10/95		view	1								0				0
BRS	14	PM	09/10/95		view	1								5				5
BRS	15	PM	10/10/95		ledge	1								0				0
BRS	16	PM	10/10/95		ledge	1								0				0
BRS	17	PM	10/10/95		view	1								0				0
BRS	18	PM	10/10/95		view	1								0				0
BRS	19	PM	10/10/95		ledge	1								9				9
BRS	20	PM	10/10/95		bno	1								28				28
BRS	21	PM	10/10/95		ledge	1								45				45
BRS	22	PM	14/10/95		nest	1	46			46	4			4	50			50
BRS	Sor Tam	SW	10/10/95		nest	1	0			0	0			0	0			0
SUM of all counts																		469
SUM of nest visit counts										157				11				168
% of all bids on a nest																		92.9
% of occupied nests containing an egg										93.5								
% of all bids on an egg										88.2								
Sum of ledge counts																		224
Sum of view down																		5
Sum of view bno down																		72
<b>BULL ROCK NORTH CENSUS</b>																		
BRN	1	PM	14/10/95		bno	2								22	24			23
BRN	2	PM	14/10/95		bno	1								23				23
BRN	3	PM	14/10/95		bno	1								2				2
BRN	4	PM	14/10/95		bno	2								10	13			12
BRN	5	PM	14/10/95		bno	2								6	6			6
BRN	6	PM	14/10/95		ledge	1								64				64
BRN	7	PM	14/10/95		bno	1								2				2
BRN	8	PM	14/10/95		bno	1								12				12
BRN	9	PM	14/10/95		bno	1								1				1
BRN	10	PM	14/10/95		ledge	1								0				0
BRN	11	PM	14/10/95		ledge	1								9				9
BRN	12a	PM	14/10/95		view	1								28				28
BRN	12b	PM	14/10/95		ledge	1								86				86

Grey-headed Mollmawk Counts October-November 1995															
				Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments	
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean		
BULL ROCK SOUTH CENSUS															
0				0	BRS	Square	SW	08/10/95	mark	0			0		
0				0	BRS	a	PM	08/10/95	nest	0			0		
0				0	BRS	b	PM	08/10/95	nest	0			0		
0				0	BRS	c	PM	08/10/95	nest	6			6		
0				0	BRS	d	PM	08/10/95	nest	12			12		
0				0	BRS	GH1	SW	08/10/95	mark	41			41		
0				0	BRS	GH2	SW	08/10/95	mark	39			39		
3				3	BRS	GH3	PM	08/10/95	nest	22			22		
1				1	BRS	bb.tce	PM	10/10/95	ledge	8			8		
0				0	BRS	1	PM	09/10/95	ledge	0			0		
4				4	BRS	2	PM	09/10/95	ledge	14			14		
2				2	BRS	3	PM	09/10/95	ledge	87			87		
1				1	BRS	4	PM	09/10/95	ledge	29			29		
0				0	BRS	5	PM	09/10/95	ledge	40			40		
1				1	BRS	6	PM	09/10/95	bno	25			25		
0				0	BRS	7	PM	09/10/95	bno	8			8	there is no area 8	
0				0	BRS	9	PM	13/10/95	nest	1			1		
1				1	BRS	10	PM	10/10/95	bno	13			13		
0				0	BRS	11	PM	09/10/95	view	0			0		
0				0	BRS	12	PM	13/10/95	nest	0			0		
0				0	BRS	13	PM	09/10/95	view	0			0		
0				0	BRS	14	PM	09/10/95	view	5			5		
0				0	BRS	15	PM	10/10/95	ledge	0			0		
0				0	BRS	16	PM	10/10/95	ledge	0			0		
0				0	BRS	17	PM	10/10/95	view	0			0		
0				0	BRS	18	PM	10/10/95	view	0			0		
5				5	BRS	19	PM	10/10/95	ledge	14			14		
7				7	BRS	20	PM	10/10/95	bno	35			35		
4				4	BRS	21	PM	10/10/95	ledge	49			49		
7				7	BRS	22	PM	14/10/95	nest	57			57		
0				0	BRS	Sor Tam	SW	10/10/95	nest	0			0		
				36	SUM of all counts									505	
				10	SUM of nest visit counts									178	
					% of all birds on a nest										
					% of occupied nests containing an egg										
					% of all birds on an egg										
				17	Sum of ledge counts									241	
				0	Sum of view down									5	
				9	Sum of view bno down									81	
BULL ROCK NORTH CENSUS															
3	3			3	BRN	1	PM	14/10/95	bno	25	27		26		
6				6	BRN	2	PM	14/10/95	bno	29			29		
1				1	BRN	3	PM	14/10/95	bno	3			3		
2	2			2	BRN	4	PM	14/10/95	bno	12	15		14		
0	0			0	BRN	5	PM	14/10/95	bno	6	6		6		
3				3	BRN	6	PM	14/10/95	ledge	67			67		
0				0	BRN	7	PM	14/10/95	bno	2			2		
0				0	BRN	8	PM	14/10/95	bno	12			12		
0				0	BRN	9	PM	14/10/95	bno	1			1		
0				0	BRN	10	PM	14/10/95	ledge	0			0		
1				1	BRN	11	PM	14/10/95	ledge	10			10		
5				5	BRN	12a	PM	14/10/95	view	33			33		
10				10	BRN	12b	PM	14/10/95	ledge	96			96		



				Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments	
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean		
16			16	BRN	13	PM	14/10/95		ledge	87			87		
2			2	BRN	14	PM	14/10/95		nest	21			21		
11			11	BRN	15	PM	14/10/95		nest	78			78		
2			2	BRN	16/17	PM	14/10/95		view	12			12		
9			9	BRN	18	PM	14/10/95		view	33			33		
			71	SUM of all counts										530	
			13	SUM of nest visit counts										99	
				% of all birds on a nest											
				% of occupied nests containing an egg											
				% of all birds on an egg											
			30	Sum of ledge counts										260	
			16	Sum of view/bino down										78	
			12	Sum of bino view across										93	
<b>HOOKERS PENNSULA CENSUS</b>															
3			3	HP	1a	PM	16/10/95		bino down	50			50	view from top	
2			2	HP	1b	PM	16/10/95		bino down	46			46	view from top	
20			20	HP	1c	PM	16/10/95		bino down	94			94	view from top	
2			2	HP	2a	PM	16/10/95		bino down	25			25	view from top	
1			1	HP	2b	PM	16/10/95		bino down	10			10	view from 2nd tier	
3			3	HP	2c	PM	16/10/95		bino down	36			36	view from 2nd tier	
4			4	HP	2d	PM	16/10/95		bino down	20			20	view from 2nd tier	
6			6	HP	3a	PM	16/10/95		bino down	29			29	view from top	
4			4	HP	3b	PM	16/10/95		bino down	14			14	view from top	
2			2	HP	3c1	PM	16/10/95		ledge	67			67		
4			4	HP	3c2	PM	16/10/95		ledge	40			40		
2			2	HP	3d	PM	16/10/95		ledge	44			44		
6			6	HP	3e	PM	16/10/95		ledge	104			104		
0			0	HP	4	PM	16/10/95		ledge	12			12		
			59	SUM of all counts										591	
				% of all birds on a nest											
			14	Sum of ledge counts										267	
			45	Sum of bino down										324	
<b>HOOKERS FINGER COMBINED COLONIES CENSUS</b>															
2			2	HF	6a	PM	16/10/95		side	3			3		
8			8	HF	6b	PM	16/10/95		side	97			97		
4			4	HF	6c	PM	16/10/95		side	45			45		
3			3	HF	5a	PM	16/10/95		side	53			53		
3			3	HF	5b	PM	16/10/95		side	22			22		
4			4	HF	5c	NP	16/10/95		nest	23			23		
0			0	HF	5d	PM	16/10/95		nest	18			18		
2			2	HF	3a	PM	16/10/95		nest	71			71	ledge count at cbse quarters	
2			2	HF	3b	PM	16/10/95		nest	16			16	ledge count at cbse quarters	
2			2	HF	3c	PM	16/10/95		nest	20			20	ledge count at cbse quarters	
13			13	HF	3d	PM	16/10/95		nest	98			98	ledge count at cbse quarters	
0			0	HF	3e	PM	16/10/95		nest	9			9	ledge count at cbse quarters	
0			0	HF	3f	PM	16/10/95		nest	1			1	ledge count at cbse quarters	
6			6	HF	2a	PM	17/10/95		nest	30			30		
6			6	HF	2b	PM	17/10/95		nest	40			40		
7			7	HF	2c	PM	17/10/95		nest	35			35		



Colony	Sector	Observer	Date	Time	Count type	Grey-headed molly hawk														
						On Egg					On Empty Nest					On Nest				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean		
HF	2d	PM	17/10/95		nest	1	31			31	10			10	41			41		
HF	2e	PM	17/10/95		nest	1	9			9	0			0	9			9		
HF	2f	PM	17/10/95		nest	1	31			31	9			9	40			40		
HF	2g	PM	17/10/95		nest	1	15			15	3			3	18			18		
HF	2h	PM	17/10/95		nest	1	85			85	26			26	111			111		
HF	2i	PM	17/10/95		nest	1	34			34	11			11	45			45		
HF	2j	PM	17/10/95		bno	1									40			40		
HF	2k	PM	17/10/95		bno	1									9			9		
HF	2l	PM	17/10/95		bno	1									12			12		
HF	2m	PM	17/10/95		nest	1	0			0	2			2	59			59		
HF	2n	PM	17/10/95		nest	1	0			0	0			0	10			10		
SUM of all counts																		913		
SUM of nest visit counts										454				131				652		
% of all birds on a nest																		86.9		
% of occupied nests containing an egg										69.6										
% of all birds on an egg										60.2										
Sum of ledge/side counts																		200		
Sum of bno across																		61		
<b>HOOKERS FINGER COLONY 6 CENSUS</b>																				
HF	6a	PM	16/10/95		side	1									1			1		
HF	6b	PM	16/10/95		side	1									89			89		
HF	6c	PM	16/10/95		side	1									41			41		
SUM of all counts																		131		
% of all birds on a nest																		90.3		
<b>HOOKERS FINGER COLONY 5 CENSUS</b>																				
HF	5a	PM	16/10/95		side	1									50			50		
HF	5b	PM	16/10/95		side	1									19			19		
HF	5c	NP	16/10/95		nest	1	17			17	2			2	19			19		
HF	5d	PM	16/10/95		nest	1	14			14	4			4	18			18		
SUM of all counts																		106		
SUM of nest visit counts										31				6				37		
% of all birds on a nest																		91.4		
% of occupied nests containing an egg										83.8										
% of all birds on an egg										75.6										
<b>HOOKERS FINGER COLONY 3 CENSUS</b>																				
HF	3a	PM	16/10/95		nest	1	55			55	14			14	69			69		
HF	3b	PM	16/10/95		nest	1	8			8	6			6	14			14		
HF	3c	PM	16/10/95		nest	1	16			16	2			2	18			18		
HF	3d	PM	16/10/95		nest	1	62			62	23			23	85			85		
HF	3e	PM	16/10/95		nest	1	8			8	1			1	9			9		
HF	3f	PM	16/10/95		nest	1	1			1	0			0	1			1		
SUM of all counts																		196		
SUM of nest visit counts										150				46				196		
% of all birds on a nest																		91.2		
% of occupied nests containing an egg										76.5										

				Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments	
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean		
6			6	HF	2d	PM	17/10/95		nest	47			47		
0			0	HF	2e	PM	17/10/95		nest	9			9		
5			5	HF	2f	PM	17/10/95		nest	45			45		
2			2	HF	2g	PM	17/10/95		nest	20			20		
20			20	HF	2h	PM	17/10/95		nest	131			131		
11			11	HF	2i	PM	17/10/95		nest	56			56		
11			11	HF	2j	PM	17/10/95		bno	51			51		
3			3	HF	2k	PM	17/10/95		bno	12			12		
2			2	HF	2l	PM	17/10/95		bno	14			14		
16			16	HF	2m	PM	17/10/95		nest	75			75		
0			0	HF	2n	PM	17/10/95		nest	10			10		
			138	SUM of all counts										1051	
			102	SUM of nest visit counts										754	
				% of all birds on a nest											
				% of occupied nests containing an egg											
				% of all birds on an egg											
			20	Sum of ledge/site counts										220	
			16	Sum of bno across										77	
				HOOKERS FINGER COLONY 6 CENSUS											
2			2	HF	6a	PM	16/10/95		side	3			3		
8			8	HF	6b	PM	16/10/95		side	97			97		
4			4	HF	6c	PM	16/10/95		side	45			45		
			14	SUM of all counts										145	
				% of all birds on a nest											
				% of occupied nests containing an egg											
				% of all birds on an egg											
				HOOKERS FINGER COLONY 5 CENSUS											
3			3	HF	5a	PM	16/10/95		side	53			53		
3			3	HF	5b	PM	16/10/95		side	22			22		
4			4	HF	5c	NP	16/10/95		nest	23			23		
0			0	HF	5d	PM	16/10/95		nest	18			18		
			10	SUM of all counts										116	
			4	SUM of nest visit counts										41	
				% of all birds on a nest											
				% of occupied nests containing an egg											
				% of all birds on an egg											
				HOOKERS FINGER COLONY 3 CENSUS											
2			2	HF	3a	PM	16/10/95		nest	71			71	ledge count at cbse quarters	
2			2	HF	3b	PM	16/10/95		nest	16			16	ledge count at cbse quarters	
2			2	HF	3c	PM	16/10/95		nest	20			20	ledge count at cbse quarters	
13			13	HF	3d	PM	16/10/95		nest	98			98	ledge count at cbse quarters	
0			0	HF	3e	PM	16/10/95		nest	9			9	ledge count at cbse quarters	
0			0	HF	3f	PM	16/10/95		nest	1			1	ledge count at cbse quarters	
			19	SUM of all counts										215	
			19	SUM of nest visit counts										215	
				% of all birds on a nest											
				% of occupied nests containing an egg											

Colony	Sector	Observer	Date	Time	Count type	Grey-headed molly hawk														
						On Egg					On Empty Nest					On Nest				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean		
% of all birds on an egg						69.8														
<b>HOOKERS FINGER COLONY 2 CENSUS</b>																				
HF	2a	PM	17/10/95		nest	1	18			18	6			6	24		24			
HF	2b	PM	17/10/95		nest	1	25			25	9			9	34		34			
HF	2c	PM	17/10/95		nest	1	25			25	3			3	28		28			
HF	2d	PM	17/10/95		nest	1	31			31	10			10	41		41			
HF	2e	PM	17/10/95		nest	1	9			9	0			0	9		9			
HF	2f	PM	17/10/95		nest	1	31			31	9			9	40		40			
HF	2g	PM	17/10/95		nest	1	15			15	3			3	18		18			
HF	2h	PM	17/10/95		nest	1	85			85	26			26	111		111			
HF	2i	PM	17/10/95		nest	1	34			34	11			11	45		45			
HF	2j	PM	17/10/95		bno	1									40		40			
HF	2k	PM	17/10/95		bno	1									9		9			
HF	2l	PM	17/10/95		bno	1									12		12			
HF	2m	PM	17/10/95		nest	1	0			0	2			2	59		59			
HF	2n	PM	17/10/95		nest	1	0			0	0			0	10		10			
SUM of all counts											480									
SUM of nest visit counts						273					79									
% of all birds on a nest											83.5									
% of occupied nests containing an egg						65.2														
% of all birds on an egg						54.8														
<b>COURREJOLLES ISTHMUS CENSUS</b>																				
CJ	1a	PM	17/10/95		nest	1	27			27	4			4	31		31			
CJ	1b	PM	17/10/95		nest	1	16			16	2			2	18		18			
CJ	1c	PM	17/10/95		nest	1	35			35	10			10	45		45			
CJ	1d	PM	17/10/95		nest	1	28			28	4			4	32		32			
CJ	1e	PM	17/10/95		nest	1	35			35	19			19	54		54			
CJ	1f	PM	17/10/95		nest	1	66			66	8			8	74		74			
CJ	JDK	PM	17/10/95		nest	1	32			32	13			13	45		45			
SUM of all counts											299									
SUM of nest visit counts						239					60									
% of all birds on a nest											86.2									
% of occupied nests containing an egg						79.9														
% of all birds on an egg						68.9														
<b>EASTERN COLONIES CENSUS</b>																				
EC	1	PM	22/10/95		bno	1								0			0			
EC	2	PM	22/10/95		various	1								0			0			
EC	3	PM	22/10/95		various	1								0			0			
EC	4	PM	22/10/95		various	1								0			0			
EC	5	PM	22/10/95		various	1								6			6			
EC	6	PM	22/10/95		various	1								13			13			
EC	7	PM	22/10/95		various	1								12			12			
EC	8	PM	22/10/95		various	1								12			12			
EC	9	PM	22/10/95		various	1								23			23			
EC	10	PM	22/10/95		various	1								36			36			
EC	11	PM	22/10/95		various	1								42			42			
EC	12	PM	22/10/95		various	1								11			11			
EC	13	PM	22/10/95		various	1								20			20			
EC	14	PM	22/10/95		various	1								14			14			
EC	15	PM	22/10/95		ledge	1								197			197			
EC	16	PM	22/10/95		various	1								13			13			
EC	17	PM	22/10/95		various	1								16			16			
EC	18	PM	22/10/95		various	1								4			4			

				Colony	Sector	Observer	Date	Time	Count type									
Extra														Total birds				
1st	2nd	3rd	mean											1st	2nd	3rd	mean	com ments
				% of all birds on an egg														
<b>HOOKERS FINGER COLONY 2 CENSUS</b>																		
6			6	HF	2a	PM	17/10/95		nest	30				30				
6			6	HF	2b	PM	17/10/95		nest	40				40				
7			7	HF	2c	PM	17/10/95		nest	35				35				
6			6	HF	2d	PM	17/10/95		nest	47				47				
0			0	HF	2e	PM	17/10/95		nest	9				9				
5			5	HF	2f	PM	17/10/95		nest	45				45				
2			2	HF	2g	PM	17/10/95		nest	20				20				
20			20	HF	2h	PM	17/10/95		nest	131				131				
11			11	HF	2i	PM	17/10/95		nest	56				56				
11			11	HF	2j	PM	17/10/95		bno	51				51				
3			3	HF	2k	PM	17/10/95		bno	12				12				
2			2	HF	2l	PM	17/10/95		bno	14				14				
16			16	HF	2m	PM	17/10/95		nest	75				75				
0			0	HF	2n	PM	17/10/95		nest	10				10				
			95	SUM of all counts												575		
			79	SUM of nest visit counts												498		
				% of all birds on a nest														
				% of occupied nests containing an egg														
				% of all birds on an egg														
<b>COURREJOLLES ISTHMUS CENSUS</b>																		
4			4	C1	1a	PM	17/10/95		nest	35				35				
2			2	C1	1b	PM	17/10/95		nest	20				20				
7			7	C1	1c	PM	17/10/95		nest	52				52				
4			4	C1	1d	PM	17/10/95		nest	36				36				
8			8	C1	1e	PM	17/10/95		nest	62				62				
11			11	C1	1f	PM	17/10/95		nest	85				85				
12			12	C1	JDK	PM	17/10/95		nest	57				57				
			48	SUM of all counts												347		
			48	SUM of nest visit counts												347		
				% of all birds on a nest														
				% of occupied nests containing an egg														
				% of all birds on an egg														
<b>EASTERN COLONIES CENSUS</b>																		
0			0	EC	1	PM	22/10/95		bno	0				0				
0			0	EC	2	PM	22/10/95		various	0				0				
0			0	EC	3	PM	22/10/95		various	0				0				
0			0	EC	4	PM	22/10/95		various	0				0				
2			2	EC	5	PM	22/10/95		various	8				8				
0			0	EC	6	PM	22/10/95		various	13				13				
5			5	EC	7	PM	22/10/95		various	17				17				
0			0	EC	8	PM	22/10/95		various	12				12				
1			1	EC	9	PM	22/10/95		various	24				24				
6			6	EC	10	PM	22/10/95		various	42				42				
2			2	EC	11	PM	22/10/95		various	44				44				
1			1	EC	12	PM	22/10/95		various	12				12				
2			2	EC	13	PM	22/10/95		various	22				22				
0			0	EC	14	PM	22/10/95		various	14				14				
24			24	EC	15	PM	22/10/95		ledge	221				221				
1			1	EC	16	PM	22/10/95		various	14				14				
2			2	EC	17	PM	22/10/95		various	18				18				
2			2	EC	18	PM	22/10/95		various	6				6				



				Col-ony	Sector	Obs-erver	Date	Time	Count type	Total birds				com m ents
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean	
3			3	EC	19	PM	22/10/95		various	15			15	
3			3	EC	20	PM	22/10/95		various	25			25	
0			0	EC	21	PM	22/10/95		various	13			13	
0			0	EC	22	PM	22/10/95		various	5			5	
0			0	EC	23	PM	22/10/95		various	0			0	
0			0	EC	24	PM	22/10/95		various	0			0	
				54	SUM of all counts								525	
					% of all birds on a nest									
				ISLE DE JEANETTE MARIE TELESCOPE COUNT										
				DJ		PM	?		tele	0			0	
					SUM of all counts								0	
				Grey-headed Mollymawk Summary Oct. 1995										
				54	Eastern cobnies			SUM of all counts				525		
				36	BullRock South			SUM of all counts				505		
				71	BullRock North			SUM of all counts				530		
				59	Hookers Peninsula			SUM of all counts				591		
				138	Hookers Finger			SUM of all counts				1051		
				48	Courreples Isthmus			SUM of all counts				347		
				0	Isle de Jeanette Marie telescope count of total birds							0		
				559	Courreples Peninsula Mean 1996,97 telescope count							4451	no estimate of GH in 1995	
				965	Total							8000	this is mean of 96 and 97 count	
				10	BullRock South			SUM of nest visit counts				178		
				13	BullRock North			SUM of nest visit counts				99		
				102	Hookers Finger			SUM of nest visit counts				754		
				48	Courreples Isthmus			SUM of nest visit counts				347		
				173	Total							1378		
				% of all birds on a nest										
				% of occupied nests containing an egg										
				% of all birds on an egg										
				54	Eastern cobnies			Sum of all counts -mostly ledge counts				525		
				17	BullRock South			Sum of ledge counts				241		
				30	BullRock North			Sum of ledge counts				260		
				14	Hookers Peninsula			Sum of ledge counts				267		
				20	Hookers Finger			Sum of ledge/side counts				220		
				0	BullRock South			Sum of view down				5		
				16	BullRock North			Sum of view down				78		
				9	BullRock South			Sum of bino down				81		
				45	Hookers Peninsula			Sum of bino down				324		
				12	BullRock North			Sum of bino view across				93		
				16	Hookers Finger			Sum of bino across				77		
				173	Sum of nest visits							1378		
				135	Sum of ledge counts							1513		
				16	Sum of view down							83		
				54	Sum of bino down							405		
				28	Sum of bino across							170		
				559	Sum of telescope counts							4451		



				Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments	
Extra	1st	2nd	3rd	mean						1st	2nd	3rd	mean		
				965	Total								8000		
					% of all birds on a nest										
<b>BULL ROCK SOUTH REPEAT COUNTS</b>															
	0			0	BRS	c	PM	08/10/95	nest	6			6		
	0			0	BRS	c	PM	30/10/95	nest	7			7		
	1			1	BRS	c	PM	13/11/95	nest	8			8		
	0			0	BRS	d	PM	08/10/95	nest	14			14		
	1			1	BRS	d	PM	30/10/95	nest	16			16		
	6			6	BRS	d	PM	13/11/95	nest	22			22		
	7			7	BRS	10	PM	13/10/95	nest	57			57		
	5			5	BRS	10	PM	30/10/95	nest	49			49		
	11			11	BRS	10	PM	13/11/95	nest	54			54		
<b>BULL ROCK NORTH REPEAT COUNTS</b>															
	2			2	BRN	14	PM	15/10/95	nest	21			21		
	0			0	BRN	14	PM	30/10/95	nest	14			14		
	2			2	BRN	14	PM	13/11/95	nest	19			19		
	11			11	BRN	15	PM	15/10/95	nest	78			78		
	5			5	BRN	15	PM	30/10/95	nest	72			72		
	7			7	BRN	15	PM	13/11/95	nest	74			74		
<b>HOOKERS FINGER REPEAT COUNTS</b>															
	6			6	HF	2b	PM	17/10/95	nest	40			40		
	9			9	HF	2b	PM	29/10/95	nest	36			36		
	4			4	HF	2b	PM	14/11/95	nest	30			30		
	5			5	HF	2f	PM	17/10/95	nest	45			45		
	0			0	HF	2f	PM	29/10/95	nest	40			40		
	1			1	HF	2f	PM	14/11/95	nest	31			31		
	20			20	HF	2h	PM	17/10/95	nest	131			131		
	20			20	HF	2h	PM	29/10/95	nest	131			131		
	12			12	HF	2h	PM	14/11/95	nest	120			120		
	2			2	HF	3a	PM	16/10/95	nest	71			71		
	8			8	HF	3a	PM	29/10/95	nest	64			64		
	3			3	HF	3a	PM	14/11/95	nest	51			51		
	2			2	HF	3b	PM	16/10/95	nest	16			16		
	0			0	HF	3b	PM	29/10/95	nest	12			12		
	2			2	HF	3b	PM	14/11/95	nest	12			12		
	2			2	HF	3c	PM	16/10/95	nest	20			20		
	0			0	HF	3c	PM	29/10/95	nest	17			17		
	0			0	HF	3c	PM	14/11/95	nest	15			15		
	4			4	HF	5c	NP	16/10/95	nest	23			23		
	2			2	HF	5c	NP	29/10/95	nest	19			19		
	2			2	HF	5c	NP	14/11/95	nest	18			18		
					HF	5d	GM	25/09/95	ledge?	19			19		
	0			0	HF	5d	PM	16/10/95	nest	18			18		
					HF	5d	SW	24/10/95	mark					nest marked	
	2			2	HF	5d	PM	29/10/95	mark	21			21		
	0			0	HF	5d	PM	14/11/95	mark	15			15		
					HF	6	SW	24/10/95	mark					nest marked	
					HF	6	PM	29/10/95	mark						
					HF	6	PM	14/11/95	mark						



Colony	Sector	Observer	Date	Time	Count type	Grey-headed molly hawk														
						On Egg					On Empty Nest					On Nest				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean		
<b>COURREJOLLES ISTHMUS REPEAT COUNTS</b>																				
C1	JDK	GM	25/09/95		ledge?	1										57			57	
C1	JDK	PM	17/10/95		nest	1	32			32	13			13		45			45	
C1	JDK	SW	24/10/95		mark	1	30			30										
C1	JDK	PM	29/10/95		mark	1	28			28	8			8		36			36	
C1	JDK	PM	14/11/95		mark	1	25			25	4			4		29			29	
C1	1a	PM	17/10/95		mark	1	27			27	4			4		31			31	
C1	1a	PM	29/10/95		mark	1	26			26	3			3		29			29	
C1	1a	PM	14/11/95		mark	1	25			25	2			2		27			27	
C1	1b	PM	17/10/95		nest	1	16			16	2			2		18			18	
C1	1b	PM	29/10/95		nest	1	15			15	3			3		18			18	
C1	1b	PM	14/11/95		nest	1	15			15	2			2		17			17	
C1	1c	PM	17/10/95		nest	1	35			35	10			10		45			45	
C1	1c	PM	29/10/95		nest	1	34			34	10			10		44			44	
C1	1c	PM	14/11/95		nest	1	32			32	6			6		38			38	
C1	1d	PM	17/10/95		nest	1	28			28	4			4		32			32	
C1	1d	PM	29/10/95		nest	1	27			27	6			6		33			33	
C1	1d	PM	14/11/95		nest	1	25			25	6			6		31			31	
C1	1e	GM	25/09/95		ledge?	1										72			72	
C1	1e	PM	17/10/95		nest	1	34			34	19			19		53			53	
C1	1e	PM	29/10/95		nest	1	35			35	15			15		50			50	
C1	1e	PM	14/11/95		nest	1	34			34	9			9		43			43	
C1	1f	GM	25/09/95		ledge?	1										83			83	
C1	1f	PM	17/10/95		nest	1	66			66	8			8		74			74	
C1	1f	PM	29/10/95		nest	1	65			65	10			10		75			75	
C1	1f	PM	14/11/95		nest	1	61			61	3			3		64			64	
<b>METHOD COMPARISONS</b>																				
BRN	14,15	PM	15/10/95		ledge	1										83			83	
BRN	14,15	PM	15/10/95		nest	1	69			69	17			17		86			86	
	% difference																		-3.5	
BRN	6	PM	15/10/95		bin	1										64			64	
BRN	6	PM	15/10/95		ledge	1										64			64	
	% difference																		0.0	

				Col-ony	Sector	Obs-erver	Date	Time	Count-type					
Extra										Totalbirds				
1st	2nd	3rd	mean							1st	2nd	3rd	mean	com ments
<b>COURREJOLLES ISTHMUS REPEAT COUNTS</b>														
				C1	JDK	GM	25/09/95		ledge?	57				57
12			12	C1	JDK	PM	17/10/95		nest	57				57
				C1	JDK	SW	24/10/95		mark					marked nests only
5			5	C1	JDK	PM	29/10/95		mark	41				41
2			2	C1	JDK	PM	14/11/95		mark	31				31
4			4	C1	1a	PM	17/10/95		mark	35				35
1			1	C1	1a	PM	29/10/95		mark	30				30
1			1	C1	1a	PM	14/11/95		mark	28				28
2			2	C1	1b	PM	17/10/95		nest	20				20
2			2	C1	1b	PM	29/10/95		nest	20				20
3			3	C1	1b	PM	14/11/95		nest	20				20
7			7	C1	1c	PM	17/10/95		nest	52				52
7			7	C1	1c	PM	29/10/95		nest	51				51
8			8	C1	1c	PM	14/11/95		nest	46				46
4			4	C1	1d	PM	17/10/95		nest	36				36
9			9	C1	1d	PM	29/10/95		nest	42				42
5			5	C1	1d	PM	14/11/95		nest	36				36
				C1	1e	GM	25/09/95		ledge?	72				72
8			8	C1	1e	PM	17/10/95		nest	61				61
13			13	C1	1e	PM	29/10/95		nest	63				63
4			4	C1	1e	PM	14/11/95		nest	47				47
				C1	1f	GM	25/09/95		ledge?	83				83
11			11	C1	1f	PM	17/10/95		nest	85				85
9			9	C1	1f	PM	29/10/95		nest	84				84
5			5	C1	1f	PM	14/11/95		nest	69				69
<b>METHOD COMPARISONS</b>														
14			14	BRN	14,15	PM	15/10/95		ledge	97				97
13			13	BRN	14,15	PM	15/10/95		nest	99				99
		7.7			% differ- ence							-2.0		
6			6	BRN	6	PM	15/10/95		hno	70				70
3			3	BRN	6	PM	15/10/95		ledge	67				67
		100.0			% differ- ence							4.5		

# Part 3 Campbell mollymawk counts October-December 1996

Counts conducted by Peter Moore, Alan Wiltshire and Matt Charteris

Cam pbellM olym aw k Counts O ctober-Decem ber 1996																									
Col-ony	Sector	Obs-erver	Date	Tim e	Count type	Cam pbellm olym aw k																			
						On Egg					On Em pty Nest					On Nest					Extra				
						N	1st	2nd	3rd	m ean	1st	2nd	3rd	m ean	1st	2nd	3rd	m ean	1st	2nd	3rd	m ean			
BULL ROCK SOUTH CENSUS																									
BRS	Square	PM	07/10/96		mark	1	58			58	7			7	65			65	0			0			
BRS	a	PM	08/10/96	16:30	nest		74			74	12			12	86			86	15			15			
BRS	b	PM	07/10/96		mark		36			36	4			4	40			40	0			0			
BRS	c	AW MC	08/10/96	17:00	nest	1	93			93	18			18	111			111	37			37			
BRS	d	PM	08/10/96	17:10	nest	1	73			73	19			19	92			92	35			35			
BRS	GH1	PM	08/10/96		mark		0			0	0			0	0			0	0			0			
BRS	GH2	PM	08/10/96		mark		0			0	0			0	9			9	0			0			
BRS	GH3	PM	07/10/96		mark		0			0	0			0	0			0	0			0			
BRS	bb tree	MC /PM	11/10/96		nest	1	1133			1133	199			199	1332			1332	190			190			
BRS	1	PM	09/10/96	9:30	ledge	1									17			17	4			4			
BRS	1a	AW	09/10/96	12:00	ledge	1									23			23	9			9			
BRS	2	PM	09/10/96	9:40	ledge	1									31			31	7			7			
BRS	3	PM	10-11/10/96	10:00	ledge	2									382	390		386	59	66		63			
BRS	4	PM	09/10/96	14:30	ledge	2									100	99		100	17	20		19			
BRS	5a	PM	09/10/96	10:45	nest	1	279			279	57			57	336			336	59			59			
BRS	5b	AW	09/10/96	9:40	ledge	1									653			653	127			127			
BRS	6	AW /PM	09/10/96	14:00	bno	2									185	199		192	78	50		64			
BRS	7	AW	09/10/96	14:30	bno	1									29			29	8			8			
BRS	9	PM	09/10/96	14:15	nest	1	156			156	19			19	175			175	37			37			
BRS	10	AW	09/10/96	14:30	bno	1									158			158	33			33			
BRS	11	AW	09/10/96	15:30	nest	1	220			220	35			35	255			255	56			56			
BRS	12	PM	09/10/96	15:26	nest	1	209			209	53			53	262			262	31			31			
BRS	13	AW	09/10/96	16:30	nest	1	235			235	30			30	265			265	57			57			
BRS	14	MC	10/10/96	16:30	nest	1	177			177	42			42	219			219	30			30			
BRS	15	PM	09/10/96	16:00	ledge	1									379			379	83			83			
BRS	16	MC	09/10/96	15:30	nest	1	192			192	37			37	229			229	37			37			
BRS	17	AW	10/10/96	9:30	nest	1	520			520	72			72	592			592	59			59			
BRS	18	AW	10/10/96	10:15	view	1									75			75	12			12			
BRS	19	PM	10/10/96	9:30	nest	1	177			177	31			31	208			208	23			23			
BRS	20	AW	10/10/96	10:30	bno	1									115			115	14			14			
BRS	21a	MC	10/10/96	9:30	nest	1	614			614	96			96	710			710	42			42			
BRS	21b	MC /AW	10/10/96	10:30	nest	1	506			506	94			94	600			600	51			51			
BRS	22	MC	10/10/96	9:00	nest	1	299			299	48			48	347			347	25			25			
BRS	Sor Tam	PM	10/10/96	9:00	ledge	1									284			284	37			37			

Cam pbellM olym aw k Counts O ctober-Decem ber 1996										
Col-ony	Sector	Obs-erver	Date	Tim e	Count type	Totalbirds				com m ents
						1st	2nd	3rd	m ean	
BULL ROCK SOUTH CENSUS										
BRS	Square	PM	07/10/96		mark	65			65	
BRS	a	PM	08/10/96	16:30	nest	101			101	
BRS	b	PM	07/10/96		mark	40			40	
BRS	c	AW /MC	08/10/96	17:00	nest	148			148	
BRS	d	PM	08/10/96	17:10	nest	127			127	
BRS	GH1	PM	08/10/96		mark	0			0	
BRS	GH2	PM	08/10/96		mark	9			9	
BRS	GH3	PM	07/10/96		mark	0			0	
BRS	bb.tce	MC /PM	11/10/96		nest	1522			1522	
BRS	1	PM	09/10/96	9:30	ledge	21			21	
BRS	1a	AW	09/10/96	12:00	ledge	32			32	
BRS	2	PM	09/10/96	9:40	ledge	38			38	
BRS	3	PM	10-	10:00	ledge	441	456		449	
BRS	4	PM	09/10/96	14:30	ledge	117	119		118	
BRS	5a	PM	09/10/96	10:45	nest	395			395	
BRS	5b	AW	09/10/96	9:40	ledge	780			780	
BRS	6	AW /PM	09/10/96	14:00	bno	263	249		256	
BRS	7	AW	09/10/96	14:30	bno	37			37	
BRS	9	PM	09/10/96	14:15	nest	212			212	
BRS	10	AW	09/10/96	14:30	bno	191			191	
BRS	11	AW	09/10/96	15:30	nest	311			311	
BRS	12	PM	09/10/96	15:26	nest	293			293	
BRS	13	AW	09/10/96	16:30	nest	322			322	
BRS	14	MC	10/10/96	16:30	nest	249			249	
BRS	15	PM	09/10/96	16:00	ledge	462			462	
BRS	16	MC	09/10/96	15:30	nest	266			266	
BRS	17	AW	10/10/96	9:30	nest	651			651	
BRS	18	AW	10/10/96	10:15	view	87			87	
BRS	19	PM	10/10/96	9:30	nest	231			231	
BRS	20	AW	10/10/96	10:30	bno	129			129	
BRS	21a	MC	10/10/96	9:30	nest	752			752	
BRS	21b	MC /AW	10/10/96	10:30	nest	651			651	
BRS	22	MC	10/10/96	9:00	nest	372			372	
BRS	SorTam	PM	10/10/96	9:00	ledge	321			321	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																									
						On Egg					On Empty Nest					On Nest					Extra										
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean					
SUM of all counts																										8375					1263
SUM of nest visit counts										5051					873											5933					784
% of all birds on a nest																										86.9					
% of occupied nests containing an egg										85.1																					
% of all birds on an egg										75.2																					
Sum of edge counts																										1873					348
Sum of view down																										75					12
Sum of bho view down																										494					119
BULL ROCK NORTH CENSUS																															
BRN	1	MC	12/10/96	13:00	nest	1	21			21	2			2	23					23	4								4		
BRN	2	PM / AW , MC	12/10/96	8:45	bno	8									65.75	66	67.33			66	9.5	8	9						9		
BRN	3	PM / AW , MC	12/10/96	8:50	bno	7									191	177	193			187	41	47	23.67						37		
BRN	4	MC	12/10/96	10:00	bno	3									297	281	276			285	38	39	40						39		
BRN	5	MC	12/10/96	15:00	nest	1	258			258	62			62	320					320	49								49		
BRN	6	MC	12/10/96	15:00	nest	1	103			103	18			18	121					121	11								11		
BRN	7	PM / AW	12/10/96	15:30	nest	1	157			157	18			18	175					175	37								37		
BRN	8	AW	12/10/96	10:30	bno	2									137	140				139	21	18						20			
BRN	9	PM / AW	12/10/96	10:30	bno	4									39	41				40	10	7						9			
BRN	10a	AW	12/10/96	15:30	nest	1	53			53	12			12	65					65	11								11		
BRN	10b	PM	12/10/96	15:30	nest	1	33	4		19	4			4	37					37	11								11		
BRN	11	PM	12/10/96	14:50	nest	1	175			175	29			29	204					204	32								32		
BRN	12	AW	12/10/96	13:50	nest	1	371			371	91			91	462					462	68								68		
BRN	13	AW	12/10/96	12:00	nest	1	268			268	60			60	328					328	54								54		
BRN	13a	AW	12/10/96	12:00	nest	1	52			52	11			11	63					63	14								14		
BRN	14	PM	12/10/96	12:00	nest	1	53			53	13			13	66					66	19								19		
BRN	15	PM	12/10/96	12:30	nest	1	23			23	6			6	29					29	7								7		
BRN	16	AW	12/10/96	12:00	bno	1	157			157	30			30	187					187	18								18		
BRN	17	AW	12/10/96	12:00	bno	1	10			10	1			1	11					11	0								0		
BRN	18	AW	12/10/96	12:00	bno	1	34			34	5			5	39					39	1								1		

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
SUM of all counts									9638	
SUM of nest visit counts									6717	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of edge counts									2221	
Sum of view down									87	
Sum of bho view down									613	
<b>BULL ROCK NORTH CENSUS</b>										
BRN	1	MC	12/10/96	13:00	nest	27			27	
BRN	2	PM / AW / MC	12/10/96	8:45	bho	75.25	74	76.33	75	
BRN	3	PM / AW / MC	12/10/96	8:50	bho	232	224	216.7	224	
BRN	4	MC	12/10/96	10:00	bho	335	320	316	324	
BRN	5	MC	12/10/96	15:00	nest	369			369	
BRN	6	MC	12/10/96	15:00	nest	132			132	
BRN	7	PM / AW	12/10/96	15:30	nest	212			212	
BRN	8	AW	12/10/96	10:30	bho	158	158		158	
BRN	9	PM / AW	12/10/96	10:30	bho	49	48		49	
BRN	10a	AW	12/10/96	15:30	nest	76			76	
BRN	10b	PM	12/10/96	15:30	nest	48			48	
BRN	11	PM	12/10/96	14:50	nest	236			236	
BRN	12	AW	12/10/96	13:50	nest	530			530	
BRN	13	AW	12/10/96	12:00	nest	382			382	
BRN	13a	AW	12/10/96	12:00	nest	77			77	
BRN	14	PM	12/10/96	12:00	nest	85			85	
BRN	15	PM	12/10/96	12:30	nest	36			36	
BRN	16	AW	12/10/96	12:00	bho	205			205	
BRN	17	AW	12/10/96	12:00	bho	11			11	
BRN	18	AW	12/10/96	12:00	bho	40			40	





Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
SUM of all counts									3295	
SUM of nest visit counts									2210	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of binocular view across									1085	
<b>HOOKERS PENINSULA</b>										
HP	1a	AW	13/10/96	12:30	nest	0			0	
HP	1b	AW	13/10/96		nest	41			41	
HP	1c	AW MC	13/10/96		nest	260			260	
HP	2a	PM	13/10/96	11:30	nest	0			0	
HP	2b	AW	13/10/96		side	63			63	
HP	2c	AW	13/10/96		nest	0			0	
HP	2d	AW	13/10/96		nest	0			0	
HP	3a	PM	13/10/96	11:30	nest	0			0	
HP	3b1	PM	13/10/96	11:30	nest	0			0	
HP	3b2	PM	13/10/96	11:30	nest	0			0	
HP	3c	MC	13/10/96	10:30	nest	47			47	
HP	3d	MC	13/10/96	10:30	nest	12			12	
HP	3e	AW	13/10/96	10:30	nest	30			30	
HP	4	MC	13/10/96	10:15	nest	0			0	
HP	5	AW	13/10/96	10:15	nest	0			0	
SUM of all counts									453	
SUM of nest visit counts									390	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of side view									63	
<b>HOOKERS FINGER COMBINED COLONIES CENSUS</b>										
HF	6a	AW	14/10/96	9:30	nest	63			63	
HF	6b	AW	14/10/96	10:00	nest	8			8	
HF	6c	AW	14/10/96	11:00	nest	322			322	
HF	5a	MC	14/10/96	11:30	nest	159			159	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
HF	5b	MC	14/10/96	10:30	nest	1	77			77	14			14	91			91	7			7			
HF	5c	MC	14/10/96	10:00	nest	1	230			230	35			35	265			265	34			34			
HF	5c-top	MC	14/10/96	10:00	nest	1	21			21	2			2	23			23	5			5			
HF	5d	MC	14/10/96	9:30	nest	1	34			34	8			8	42			42	1			1			
HF	3a	PM	14/10/96	10:00	nest	1	17			17	4			4	21			21	2			2			
HF	3b	PM	14/10/96	10:10	nest	1	0			0	0			0	0			0	0			0			
HF	3c	PM	14/10/96	10:20	nest	1	0			0	0			0	0			0	0			0			
HF	3d	PM	14/10/96	10:30	nest	1	23			23	1			1	24			24	2			2			
HF	3e	PM	14/10/96	10:40	nest	1	0			0	0			0	0			0	0			0			
HF	3f	PM	14/10/96	10:50	nest	1	0			0	0			0	0			0	0			0			
HF	2a	MC	14/10/96	12:30	nest	1	14			14	3			3	17			17	1			1			
HF	2b	MC	14/10/96	12:00	nest	1	80			80	10			10	90			90	6			6			
HF	2c	PM	14/10/96	13:00	nest	1	2			2	0			0	2			2	0			0			
HF	2d	AW	14/10/96	12:30	nest	1	25			25	5			5	30			30	1			1			
HF	2e	AW	14/10/96		nest	1	10			10	0			0	10			10	1			1			
HF	2f	AW	14/10/96	12:00	nest	1	1			1	0			0	1			1	0			0			
HF	2g	AW	14/10/96		nest	1	18			18	1			1	19			19	1			1			
HF	2h	PM	14/10/96		nest	1	19			19	2			2	21			21	7			7			
HF	2i	PM	14/10/96		nest	1	39			39	5			5	44			44	5			5			
HF	2j	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0			
HF	2k	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0			
HF	2l	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0			
HF	2m	PM	14/10/96		nest	1	1			1	2			2	3			3	0			0			
HF	2n	PM	14/10/96	11:00	nest	1	0			0	0			0	0			0	0			0			
HF	2p	PM	14/10/96		nest	1	6			6	2			2	8			8	6			6			
SUM of all counts																		1233				109			
SUM of nest visit counts										1071				162				1233				109			
% of all birds on a nest																		91.9							
% of occupied nests containing an egg										86.9															
% of all birds on an egg										79.8															
HOOKERS FINGER COLONY 6 CENSUS																									
HF	6a	AW	14/10/96	9:30	nest	1	51			51	8			8	59			59	4			4			
HF	6b	AW	14/10/96	10:00	nest	1	7			7	1			1	8			8	0			0			
HF	6c	AW	14/10/96	11:00	nest	1	269			269	36			36	305			305	17			17			

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
HF	5b	MC	14/10/96	10:30	nest	98			98	
HF	5c	MC	14/10/96	10:00	nest	299			299	
HF	5c-top	MC	14/10/96	10:00	nest	28			28	
HF	5d	MC	14/10/96	9:30	nest	43			43	
HF	3a	PM	14/10/96	10:00	nest	23			23	
HF	3b	PM	14/10/96	10:10	nest	0			0	
HF	3c	PM	14/10/96	10:20	nest	0			0	
HF	3d	PM	14/10/96	10:30	nest	26			26	
HF	3e	PM	14/10/96	10:40	nest	0			0	
HF	3f	PM	14/10/96	10:50	nest	0			0	
HF	2a	MC	14/10/96	12:30	nest	18			18	
HF	2b	MC	14/10/96	12:00	nest	96			96	
HF	2c	PM	14/10/96	13:00	nest	2			2	
HF	2d	AW	14/10/96	12:30	nest	31			31	
HF	2e	AW	14/10/96		nest	11			11	
HF	2f	AW	14/10/96	12:00	nest	1			1	
HF	2g	AW	14/10/96		nest	20			20	
HF	2h	PM	14/10/96		nest	28			28	
HF	2i	PM	14/10/96		nest	49			49	
HF	2j	PM	14/10/96		nest	0			0	
HF	2k	PM	14/10/96		nest	0			0	
HF	2l	PM	14/10/96		nest	0			0	
HF	2m	PM	14/10/96		nest	3			3	
HF	2n	PM	14/10/96	11:00	nest	0			0	
HF	2p	PM	14/10/96		nest	14			14	
SUM of all counts									1342	
SUM of nest visit counts									1342	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 6 CENSUS										
HF	6a	AW	14/10/96	9:30	nest	63			63	
HF	6b	AW	14/10/96	10:00	nest	8			8	
HF	6c	AW	14/10/96	11:00	nest	322			322	

Colony	Sector	Observer	Date	Time	Count type	Campbellm o llym aw k																									
						On Egg					On Empty Nest					On Nest					Extra										
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean					
SUM of all counts																										372					21
SUM of nest visit counts										327					45											372					21
% of all birds on a nest																										94.7					
% of occupied nests containing an egg										87.9																					
% of all birds on an egg										83.2																					
HOOKERS FINGER COLONY 5 CENSUS																															
HF	5a	MC	14/10/96	11:30	nest	1	127			127	23			23	150					150	9								9		
HF	5b	MC	14/10/96	10:30	nest	1	77			77	14			14	91					91	7								7		
HF	5c	MC	14/10/96	10:00	nest	1	230			230	35			35	265					265	34								34		
HF	5c-top	MC	14/10/96	10:00	nest	1	21			21	2			2	23					23	5								5		
HF	5d	MC	14/10/96	9:30	nest	1	34			34	8			8	42					42	1								1		
SUM of all counts																										571					56
SUM of nest visit counts										489					82											571					56
% of all birds on a nest																										91.1					
% of occupied nests containing an egg										85.6																					
% of all birds on an egg										78.0																					
HOOKERS FINGER COLONY 3 CENSUS																															
HF	3a	PM	14/10/96	10:00	nest	1	17			17	4			4	21					21	2								2		
HF	3b	PM	14/10/96	10:10	nest	1	0			0	0			0	0					0	0								0		
HF	3c	PM	14/10/96	10:20	nest	1	0			0	0			0	0					0	0								0		
HF	3d	PM	14/10/96	10:30	nest	1	23			23	1			1	24					24	2								2		
HF	3e	PM	14/10/96	10:40	nest	1	0			0	0			0	0					0	0								0		
HF	3f	PM	14/10/96	10:50	nest	1	0			0	0			0	0					0	0								0		
SUM of all counts																										45					4
SUM of nest visit counts										40					5											45					4
% of all birds on a nest																										91.8					
% of occupied nests containing an egg										88.9																					
% of all birds on an egg										81.6																					

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
SUM of all counts									393	
SUM of nest visit counts									393	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
<b>HOOKERS FINGER COLONY 5 CENSUS</b>										
HF	5a	MC	14/10/96	11:30	nest	159			159	
HF	5b	MC	14/10/96	10:30	nest	98			98	
HF	5c	MC	14/10/96	10:00	nest	299			299	
HF	5c - top	MC	14/10/96	10:00	nest	28			28	
HF	5d	MC	14/10/96	9:30	nest	43			43	
SUM of all counts									627	
SUM of nest visit counts									627	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
<b>HOOKERS FINGER COLONY 3 CENSUS</b>										
HF	3a	PM	14/10/96	10:00	nest	23			23	
HF	3b	PM	14/10/96	10:10	nest	0			0	
HF	3c	PM	14/10/96	10:20	nest	0			0	
HF	3d	PM	14/10/96	10:30	nest	26			26	
HF	3e	PM	14/10/96	10:40	nest	0			0	
HF	3f	PM	14/10/96	10:50	nest	0			0	
SUM of all counts									49	
SUM of nest visit counts									49	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
HOOKERS FINGER COLONY 2 CENSUS																									
HF	2a	MC	14/10/96	12:30	nest	1	14			14	3			3	17			17	1		1				
HF	2b	MC	14/10/96	12:00	nest	1	80			80	10			10	90			90	6		6				
HF	2c	PM	14/10/96	13:00	nest	1	2			2	0			0	2			2	0		0				
HF	2d	AW	14/10/96	12:30	nest	1	25			25	5			5	30			30	1		1				
HF	2e	AW	14/10/96		nest	1	10			10	0			0	10			10	1		1				
HF	2f	AW	14/10/96	12:00	nest	1	1			1	0			0	1			1	0		0				
HF	2g	AW	14/10/96		nest	1	18			18	1			1	19			19	1		1				
HF	2h	PM	14/10/96		nest	1	19			19	2			2	21			21	7		7				
HF	2i	PM	14/10/96		nest	1	39			39	5			5	44			44	5		5				
HF	2j	PM	14/10/96		nest	1	0			0	0			0	0			0	0		0				
HF	2k	PM	14/10/96		nest	1	0			0	0			0	0			0	0		0				
HF	2l	PM	14/10/96		nest	1	0			0	0			0	0			0	0		0				
HF	2m	PM	14/10/96		nest	1	1			1	2			2	3			3	0		0				
HF	2n	PM	14/10/96	11:00	nest	1	0			0	0			0	0			0	0		0				
HF	2p	PM	14/10/96		nest	1	6			6	2			2	8			8	6		6				
SUM of all counts																		245			28				
SUM of nest visit counts										215				30				245			28				
% of all birds on a nest																		57.1							
% of occupied nests containing an egg										87.8															
% of all birds on an egg										78.8															
COURREJOLLES ISTHMUS CENSUS																									
CJ	1a	AW	14/10/96	15:30	nest	1	0			0	0			0	0			0	0		0				
CJ	1b	MC	14/10/96	15:30	nest	1	0			0	0			0	0			0	0		0				
CJ	1c	MC	14/10/96	16:00	nest	1	0			0	0			0	0			0	0		0				
CJ	1d	AL	14/10/96	16:00	nest	1	1			1	0			0	1			1	0		0				
CJ	1e	AL	14/10/96	16:30	nest	1	8			8	1			1	9			9	1		1				
CJ	1f	MC	14/10/96	16:30	nest	1	39			39	9			9	48			48	12		12				
CJ	JDK	PM	14/10/96	15:30	nest	1	20			20	4			4	24			24	3		3				
SUM of all counts																		82			16				
SUM of nest visit counts										68				14				82			16				
% of all birds on a nest																		83.7							
% of occupied nests containing an egg										82.9															
% of all birds on an egg										69.4															

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
HOOKERS FINGER COLONY 2 CENSUS										
HF	2a	MC	14/10/96	12:30	nest	18			18	
HF	2b	MC	14/10/96	12:00	nest	96			96	
HF	2c	PM	14/10/96	13:00	nest	2			2	
HF	2d	AW	14/10/96	12:30	nest	31			31	
HF	2e	AW	14/10/96		nest	11			11	
HF	2f	AW	14/10/96	12:00	nest	1			1	
HF	2g	AW	14/10/96		nest	20			20	
HF	2h	PM	14/10/96		nest	28			28	
HF	2i	PM	14/10/96		nest	49			49	
HF	2j	PM	14/10/96		nest	0			0	
HF	2k	PM	14/10/96		nest	0			0	
HF	2l	PM	14/10/96		nest	0			0	
HF	2m	PM	14/10/96		nest	3			3	
HF	2n	PM	14/10/96	11:00	nest	0			0	
HF	2p	PM	14/10/96		nest	14			14	
SUM of all counts									273	
SUM of nest visit counts									273	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
COURREJOLLES ISTHMUS CENSUS										
CJ	1a	AW	14/10/96	15:30	nest	0			0	
CJ	1b	MC	14/10/96	15:30	nest	0			0	
CJ	1c	MC	14/10/96	16:00	nest	0			0	
CJ	1d	AL	14/10/96	16:00	nest	1			1	
CJ	1e	AL	14/10/96	16:30	nest	10			10	
CJ	1f	MC	14/10/96	16:30	nest	60			60	
CJ	JDK	PM	14/10/96	15:30	nest	27			27	
SUM of all counts									98	
SUM of nest visit counts									98	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										





Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
EASTERN COLONIES CENSUS										
EC	1	PM	15/10/96		side	25			25	
EC	2	AW	15/10/96		nest	38			38	
EC	3	AW	15/10/96		nest	37			37	
EC	4	PM	15/10/96		side	21			21	
EC	5a	PM MC	15/10/96		nest	72			72	
EC	5b	AW	15/10/96		nest	38			38	
EC	6a-upper	PM	15/10/96		nest	36			36	
EC	6a-bwer	PM	15/10/96		view	14			14	
EC	6b-upper	AW	15/10/96		nest	30			30	
EC	6b-bwer	PM	15/10/96		view	12			12	
EC	7-upper	AW	15/10/96		nest	24			24	
EC	7-bwer	PM	15/10/96		side	50			50	
EC	8a	PM	15/10/96		nest	36			36	
EC	8b	PM	15/10/96		side	17			17	
EC	9	PM MC	15/10/96		nest	0			0	
EC	10-upper	MC	15/10/96		nest	0			0	
EC	10-bwer	PM	15/10/96		nest	2			2	
EC	11-upper	MC	15/10/96		nest	0			0	
EC	11-bwer	PM	15/10/96		nest	35			35	
EC	12	MC	15/10/96		nest	0			0	
EC	13a	AW	15/10/96		nest	62			62	
EC	13b/14 upper	MC	15/10/96		nest	5			5	
EC	13b/14 mid	PM	15/10/96		nest	0			0	
EC	13b/14 bwer	AW	15/10/96		nest	0			0	
EC	15	PM AW / MC	15/10/96		nest	1669			1669	
EC	15-bwer	PM	15/10/96		bno	272			272	
EC	16/17	AW	15/10/96		nest	35			35	
EC	18	MC	15/10/96		nest	10			10	
EC	19	AW	15/10/96		nest	1			1	
EC	20-bwer	AW	15/10/96		nest	11			11	
EC	20-upper	MC	15/10/96		nest	0			0	
EC	23a	AW	15/10/96		bno	94			94	



Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
EC	23b/23c	MC	15/10/96		bho	98			98	
EC	24	MC	15/10/96		view	34			34	
SUM of all counts									2778	
SUM of nest visit counts									2141	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of edge / side view									113	
Sum of view down									60	
Sum of bho view down									464	
ISLE DE JEANETTE MARIE TELESCOPE COUNT										
DJ	left	PM /AW	26/10/96	15:00	tele	83	82		83	from Couples Isthmus
DJ	right	PM /AW	26/10/96	16:00	tele	112	115		113	from near Azimuth
SUM of all counts									196	
Campebell Mollusk Summary Oct. 1996										
Eastern cobnics									2778	
BullRock South									9638	
BullRock North									3295	
Hookers Peninsula									453	
Hookers Finger									1342	
Couples Isthmus									98	
Isle de Jeanette Marie									196	
Couples Peninsula									8422	
minus telescope count grey-heads										
Total:									26222	
Eastern cobnics									2141	
BullRock South									6717	
BullRock North									2210	
Hookers Peninsula									390	
Hookers Finger									1342	
Couples Isthmus									98	



Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
Total									12898	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Eastern cobnès			Sum of ledge/side counts						113	
BullRock South			Sum of ledge counts						2221	
Hookers Peninsula			Sum of ledge counts						63	
BullRock South			Sum of view down						87	
Eastern cobnès			Sum of view down						60	
Eastern cobnès			Sum of bino down						464	
BullRock South			Sum of bino down						613	
BullRock North			Sum of bino view across						1085	
Sum of nest visits									12898	
Sum of ledge counts									2397	
Sum of view down									147	
Sum of bino down									1077	
Sum of bino across									1085	
Sum of telescope counts									8618	
Total									26222	
% of all birds on a nest										
<b>BULL ROCK SOUTH REPEAT COUNTS</b>										
BRS	Square, a & b	PM	08/10/96	16:30	nest	195			195	
BRS	Square, a & b	PM	30/10/96	10:55	nest	177			177	
BRS	Square, a & b	PM	19/11/96	8:35	nest	184			184	
BRS	Square, a & b	PM	20/12/96	15:00	nest	190			190	152 chicks, 2 eggs
BRS	c	MC/AW	08/10/96	17:00	nest	148			148	
BRS	c	PM	30/10/96	10:45	nest	114			114	
BRS	c	PM	19/11/96	8:48	nest	128			128	
BRS	c	KE/BE	21/12/96	9:00	nest	124			124	77 chicks, 2 eggs
BRS	d	PM	08/10/96	17:10	nest	127			127	

Colony	Sector	Observer	Date	Time	Count type	Campbellm o llym aw k																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BRS	d	PM	30/10/96	8:10	nest	1	69			69	12			12	81			81	12			12			
BRS	d	PM	19/11/96	9:10	nest	1	63			63	16			16	79			79	14			14			
BRS	d	KE/BE	21/12/96	9:00	nest	1	44			44	33			33	77			77	34			34			
BRS	9	PM	09/10/96	14:15	nest	1	156			156	19			19	175			175	37			37			
BRS	9	PM	30/10/96	8:22	nest	1	150			150	12			12	162			162	33			33			
BRS	9	PM	19/11/96	9:22	nest	1	127			127	32			32	159			159	51			51			
BRS	9	PM	21/12/96	10:00	nest	1	75			75	60			60	135			135	98			98			
BRS	12	PM	09/10/96	15:30	nest	1	209			209	53			53	262			262	31			31			
BRS	12	PM	30/10/96	8:50	nest	1	202			202	41			41	243			243	27			27			
BRS	12	PM	19/11/96	9:50	nest	1	190			190	42			42	232			232	32			32			
BRS	12	KE/BE	21/12/96	10:00	nest	1	160			160	72			72	232			232	48			48			
BRS	11	AW	09/10/96	15:30	nest	1	220			220	35			35	255			255	56			56			
BRS	11	AW	30/10/96	8:10	nest	1	194			194	30			30	224			224	31			31			
BRS	11	AW	19/11/96	8:30	nest	1	163			163	56			56	219			219	48			48			
BRS	11	PM	21/12/96	12:30	nest	1	132			132	75			75	207			207	80			80			
BRS	14	MC	10/10/96	16:30	nest	1	177			177	42			42	219			219	30			30			
BRS	14	MC	30/10/96	8:10	nest	1	163			163	29			29	192			192	21			21			
BRS	14	MC	19/11/96	8:30	nest	1	144			144	47			47	191			191	21			21			
BRS	14	PM	21/12/96	12:00	nest	1	120			120	78			78	198			198	73			73			
BRS	22	PM	10/10/96	9:00	nest	1	299			299	48			48	347			347	25			25			
BRS	22	PM	30/10/96	9:30	nest	1	287			287	36			36	323			323	19			19			
BRS	22	AW MC, PM	19/11/96	9:30	nest	1	252			252	78			78	330			330	54			54			
BRS	22	KE/BE	21/12/96	11:30	nest	1	191			191	135			135	326			326	73			73			
BULL ROCK SOUTH REPEAT COUNTS ON SAME DAY																									
BRS	d	AW	01/11/96	8:45	nest	1					15			15					36			36			
BRS	d	AW	01/11/96	10:50	nest	1					15			15					28			28			
BRS	d	AW	01/11/96	12:50	nest	1					15			15					29			29			
BRS	d	AW	01/11/96	13:45	nest	1					16			16					29			29			
BRS	d	AW	01/11/96	16:45	nest	0					13			13					30			30			
BRS	9	AW	01/11/96	8:45	nest	1					20			20					64			64			
BRS	9	AW	01/11/96	10:50	nest	1					17			17					55			55			
BRS	9	AW	01/11/96	12:50	nest	1					15			15					51			51			

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
BRS	d	PM	30/10/96	8:10	nest	93			93	
BRS	d	PM	19/11/96	9:10	nest	93			93	
BRS	d	KE/BE	21/12/96	9:00	nest	111			111	43 chicks, 1 egg
BRS	9	PM	09/10/96	14:15	nest	212			212	
BRS	9	PM	30/10/96	8:22	nest	195			195	
BRS	9	PM	19/11/96	9:22	nest	210			210	
BRS	9	PM	21/12/96	10:00	nest	233			233	73 chicks, 2 eggs
BRS	12	PM	09/10/96	15:30	nest	293			293	
BRS	12	PM	30/10/96	8:50	nest	270			270	
BRS	12	PM	19/11/96	9:50	nest	264			264	
BRS	12	KE/BE	21/12/96	10:00	nest	280			280	150 chicks, 10 eggs
BRS	11	AW	09/10/96	15:30	nest	311			311	
BRS	11	AW	30/10/96	8:10	nest	255			255	
BRS	11	AW	19/11/96	8:30	nest	267			267	
BRS	11	PM	21/12/96	12:30	nest	287			287	123 chicks, 9 eggs
BRS	14	MC	10/10/96	16:30	nest	249			249	
BRS	14	MC	30/10/96	8:10	nest	213			213	
BRS	14	MC	19/11/96	8:30	nest	212			212	
BRS	14	PM	21/12/96	12:00	nest	271			271	117 chicks, 3 eggs
BRS	22	PM	10/10/96	9:00	nest	372			372	
BRS	22	PM	30/10/96	9:30	nest	342			342	
BRS	22	AW MC, PM	19/11/96	9:30	nest	384			384	
BRS	22	KE/BE	21/12/96	11:30	nest	399			399	181 chicks, 10 eggs
<b>BULL ROCK SOUTH REPEAT COUNTS ON SAME DAY</b>										
BRS	d	AW	01/11/96	8:45	nest					eggs were not counted as these nests
BRS	d	AW	01/11/96	10:50	nest					had already been given nest markers
BRS	d	AW	01/11/96	12:50	nest					
BRS	d	AW	01/11/96	13:45	nest					
BRS	d	AW	01/11/96	16:45	nest					
BRS	9	AW	01/11/96	8:45	nest					
BRS	9	AW	01/11/96	10:50	nest					
BRS	9	AW	01/11/96	12:50	nest					

Colony	Sector	Observer	Date	Time	Count type	Campbellm o llym aw k																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
BRS	9	AW	01/11/96	13:45	nest	1					15				15					46				46	
BRS	9	AW	01/11/96	16:45	nest	0					16				16					58				58	
BULL ROCK NORTH REPEAT COUNTS																									
BRN	12	AW	12/10/96	13:50	nest	1	371			371	91			91	462				462	68				68	
BRN	12	AW MC	30/10/96	12:45	nest	1	357			357	36			36	393				393	20				20	
BRN	12	AW MC	19/11/96	11:20	nest	1	329			329	55			55	384				384	32				32	
BRN	12	PM KE B	20/12/96	16:30	nest	1	278			278	127			127	405				405	63				63	
BRN	13a	AW	12/10/96		nest	1	52			52	11			11	63				63	14				14	
BRN	13a	PM	30/10/96	13:20	nest	1	46			46	6			6	52				52	6				6	
BRN	13a	PM	19/11/96	11:30	nest	1	37			37	17			17	54				54	14				14	
BRN	13a	KE	20/12/96	15:00	nest	1	30			30	17			17	47				47	21				21	
BRN	14	PM	12/10/96	12:00	nest	1	53			53	13			13	66				66	19				19	
BRN	14	PM	30/10/96	12:45	nest	1	50			50	6			6	56				56	5				5	
BRN	14	PM	19/11/96	11:20	nest	1	48			48	10			10	58				58	13				13	
BRN	14	PM	20/12/96	15:00	nest	1	35			35	19			19	54				54	10				10	
BRN	15	PM	12/10/96	12:30	nest	1	23			23	6			6	29				29	7				7	
BRN	15	PM	30/10/96	13:00	nest	1	19			19	5			5	24				24	1				1	
BRN	15	PM	19/11/96	11:50	nest	1	17			17	8			8	25				25	7				7	
BRN	15	PM	20/12/96	15:00	nest	1	10			10	18			18	28				28	7				7	
HOOKERS FNGER REPEAT COUNTS																									
HF	5c	MC	14/10/96		nest	1	251			251	37			37	288				288	39				39	
HF	5c	W	31/10/96	10:00	nest	1	256			256	37			37	293				293	25				25	
HF	5c	MC	20/11/96	9:45	nest	1	231			231	53			53	284				284	28				28	
HF	5c	PM	22/12/96	9:50	nest	1	207			207	71			71	278				278	53				53	
HF	5d	MC	14/10/96	9:30	nest	1	34			34	8			8	42				42	1				1	
HF	5d	MC	31/10/96	10:00	nest	1	33			33	7			7	40				40	2				2	
HF	5d	MC	20/11/96	9:30	nest	1	30			30	12			12	42				42	6				6	
HF	5d	PM	22/12/96	9:50	nest	1	21			21	18			18	39				39	6				6	



Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
BRS	9	AW	01/11/96	13:45	nest					
BRS	9	AW	01/11/96	16:45	nest					
BULL ROCK NORTH REPEAT COUNTS										
BRN	12	AW	12/10/96	13:50	nest	530			530	
BRN	12	AW MC	30/10/96	12:45	nest	413			413	
BRN	12	AW MC	19/11/96	11:20	nest	416			416	
BRN	12	PM KE B	20/12/96	16:30	nest	468			468	270 chicks, 8 eggs
BRN	13a	AW	12/10/96		nest	77			77	
BRN	13a	PM	30/10/96	13:20	nest	58			58	
BRN	13a	PM	19/11/96	11:30	nest	68			68	
BRN	13a	KE	20/12/96	15:00	nest	68			68	29 chicks, 1 egg
BRN	14	PM	12/10/96	12:00	nest	85			85	
BRN	14	PM	30/10/96	12:45	nest	61			61	
BRN	14	PM	19/11/96	11:20	nest	71			71	
BRN	14	PM	20/12/96	15:00	nest	64			64	33 chicks, 2 eggs
BRN	15	PM	12/10/96	12:30	nest	36			36	
BRN	15	PM	30/10/96	13:00	nest	25			25	
BRN	15	PM	19/11/96	11:50	nest	32			32	
BRN	15	PM	20/12/96	15:00	nest	35			35	7 chicks, 3 eggs
HOOKERS FINGER REPEAT COUNTS										
HF	5c	MC	14/10/96		nest	327			327	
HF	5c	W	31/10/96	10:00	nest	318			318	
HF	5c	MC	20/11/96	9:45	nest	312			312	
HF	5c	PM	22/12/96	9:50	nest	331			331	197 chicks, 10 eggs
HF	5d	MC	14/10/96	9:30	nest	43			43	
HF	5d	MC	31/10/96	10:00	nest	42			42	
HF	5d	MC	20/11/96	9:30	nest	48			48	
HF	5d	PM	22/12/96	9:50	nest	45			45	19 chicks, 2 eggs

Colony	Sector	Observer	Date	Time	Count type	Campbellmollyhawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
HF	3a	PM	14/10/96	10:00	nest	1	17			17	4			4	21			21	2			2			
HF	3a	MC/AW	31/10/96	11:30	nest	1	17			17	5			5	22			22	5			5			
HF	3a	PM	20/11/96	10:15	nest	1	17			17	4			4	21			21	5			5			
HF	3a	PM	22/12/96	11:30	nest	1	11			11	16			16	27			27	10			10			
HF	2b	PM	14/10/96	12:00	nest	1	80			80	10			10	90			90	6			6			
HF	2b	MC/AW	31/10/96	13:15	nest	1	82			82	9			9	91			91	13			13			
HF	2b	AW	20/11/96	9:30	nest	1	78			78	11			11	89			89	19			19			
HF	2b	PM	22/12/96	13:15	nest	1	61			61	27			27	88			88	20			20			
HF	2h	PM	14/10/96	12:00	nest	1	19			19	2			2	21			21	7			7			
HF	2h	MC/AW	31/10/96	14:00	nest	1	19			19	5			5	24			24	7			7			
HF	2h	MC	20/11/96	11:00	nest	1	17			17	2			2	19			19	4			4			
HF	2h	PM	22/12/96	12:40	nest	1	16			16	9			9	25			25	6			6			
HF	2i	PM	14/10/96	11:30	nest	1	45			45	7			7	52			52	11			11			
HF	2i	PM	31/10/96	12:50	nest	1	41			41	13			13	54			54	14			14			
HF	2i	AW/PM	20/11/96	10:30	nest	1	39			39	11			11	50			50	13			13			
HF	2i	PM	22/12/96	12:15	nest	1	35			35	23			23	58			58	31			31			
COURREJOLLES ISTHMUS REPEAT COUNTS																									
CJ	1ad	AW	14/10/96	16:00	nest	1	1			1	0			0	1			1	0			0			
CI	1ad	MC	31/10/96	17:30	nest	1	1			1	0			0	1			1	0			0			
CI	1ad	MC	20/11/96	15:30	nest	1	0			0	0			0	0			0	0			0			
CJ	1ad	PM	22/12/96	15:00	nest	1	0			0	0			0	0			0	0			0			
CJ	1f	MC	14/10/96	16:30	nest	1	39			39	9			9	48			48	12			12			
CI	1f	MC/PM	31/10/96	17:45	nest	1	39			39	9			9	48			48	20			20			
CI	1f	MC	20/11/96	15:45	nest	1	34			34	9			9	43			43	17			17			
CJ	1f	PM	22/12/96	15:00	nest	1	21			21	24			24	45			45	25			25			
CJ	JDK	PM	14/10/96	15:30	nest	1	20			20	4			4	24			24	3			3			
CI	JDK	PM	31/10/96	17:30	nest	1	20			20	3			3	23			23	4			4			
CI	JDK	PM	20/11/96	16:00	nest	1	14			14	7			7	21			21	10			10			
CJ	JDK	PM	22/12/96	16:20	nest	1	4			4	25			25	29			29	14			14			

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HF	3a	PM	14/10/96	10:00	nest	23			23	
HF	3a	MC/AW	31/10/96	11:30	nest	27			27	
HF	3a	PM	20/11/96	10:15	nest	26			26	
HF	3a	PM	22/12/96	11:30	nest	37			37	10 chicks, 1 egg
HF	2b	PM	14/10/96	12:00	nest	96			96	
HF	2b	MC/AW	31/10/96	13:15	nest	104			104	
HF	2b	AW	20/11/96	9:30	nest	108			108	
HF	2b	PM	22/12/96	13:15	nest	108			108	58 chicks, 3 eggs
HF	2h	PM	14/10/96	12:00	nest	28			28	
HF	2h	MC/AW	31/10/96	14:00	nest	31			31	
HF	2h	MC	20/11/96	11:00	nest	23			23	
HF	2h	PM	22/12/96	12:40	nest	31			31	14 chicks, 2 eggs
HF	2i	PM	14/10/96	11:30	nest	63			63	
HF	2i	PM	31/10/96	12:50	nest	68			68	
HF	2i	AW/PM	20/11/96	10:30	nest	63			63	
HF	2i	PM	22/12/96	12:15	nest	89			89	34 chicks, 1 egg
COURREJOLLES ISTHMUS REPEAT COUNTS										
CJ	1a d	AW	14/10/96	16:00	nest	1			1	
CI	1a d	MC	31/10/96	17:30	nest	1			1	
CI	1a d	MC	20/11/96	15:30	nest	0			0	
CJ	1a d	PM	22/12/96	15:00	nest	0			0	
CJ	1f	MC	14/10/96	16:30	nest	60			60	
CI	1f	MC/PM	31/10/96	17:45	nest	68			68	
CI	1f	MC	20/11/96	15:45	nest	60			60	
CJ	1f	PM	22/12/96	15:00	nest	70			70	20 chicks, 1 egg
CJ	JDK	PM	14/10/96	15:30	nest	27			27	
CI	JDK	PM	31/10/96	17:30	nest	27			27	
CI	JDK	PM	20/11/96	16:00	nest	31			31	
CJ	JDK	PM	22/12/96	16:20	nest	43			43	3 chicks, 1 egg

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk				mean	On Empty Nest				mean	On Nest				Extra			
						On Egg					On Empty Nest					On Nest				Extra			
						N	1st	2nd	3rd		1st	2nd	3rd	mean		1st	2nd	3rd	mean	1st	2nd	3rd	mean
REPLICATE LEDGE COUNTS																							
BRS	a	PM	08/10/96	11:30	ledge										87	84	85		8	7	9		
BRS	a	PM	08/10/96	11:30	ledge	5									96	85		87	8	8		8	
BRS	a	AW	08/10/96	14:30	ledge	3									90	91	93	91.3	11	13	12	12.0	
BRS	a	MC	08/10/96	16:30	ledge	3									83	84	85	84.0	18	14	15	15.7	
BRS	a	total	08/10/96		ledge	11												87.5				11.2	
BRS	a	total	08/10/96		ledge	sd	CV										4.3	4.9			3.5	31.7	
BRS	c	PM	08/10/96	12:30-15:40	ledge	3									109	101	113	107.7	28	36	36	33.3	
BRS	c	AW	08/10/96	15:30	ledge	3									118	112	111	113.7	48	42	36	42.0	
BRS	c	MC	08/10/96	16:30	ledge	3									104	106	106	105.3	23	17	27	22.3	
BRS	c	total	08/10/96		ledge	9												108.9				32.6	
BRS	c	total	08/10/96		ledge	sd	CV										5.2	4.8			9.7	29.7	
BRS	d	PM	08/10/96	16:50	ledge	3									91	89	95	91.7	32	28	32	30.7	
BRS	d	AW	08/10/96	16:30	ledge	3									89	93	88	90.0	32	33	35	33.3	
BRS	d	MC	08/10/96	14:30	ledge	3									83	84	84	83.7	29	29	30	29.3	
BRS	d	total	08/10/96		ledge	9												88.4				31.1	
BRS	d	total	08/10/96		ledge	sd	CV										4.2	4.7			2.3	7.3	
BRS	9	PM	09/10/96	13:30	ledge										180	181	181		38	40	37		
BRS	9	PM	09/10/96	13:30	ledge	4									180			181	42			39	
BRS	9	AW	09/10/96	12:00	ledge										164	165	149		48	51	52		
BRS	9	AW	09/10/96	12:00	ledge	5									155	168		160	49	44		49	
BRS	9	MC	09/10/96	9:30	ledge										176	170	166		59	65	74		
BRS	9	MC	09/10/96	9:30	ledge	5									173	166		170	62	51		62	
BRS	9	total	09/10/96		ledge	14												170				51	
BRS	9	total	09/10/96		ledge	sd	CV										9.8	5.8			5.7	11.1	
REPLICATE BNO ACROSS OR DOWN COUNTS																							
BRN	1	PM	12/10/96	8:30	bno	2									19	19		19	4	4		4	
BRN	1	AW	12/10/96	8:30	bno	1									19			19	3			3	
BRN	1	MC	12/10/96	8:30	bno	3									22	22	22	22	1	1	1	1	
BRN	1	total	12/10/96	8:30	bno	6												21				2	
BRN	1	total	12/10/96	8:30	bno	sd	CV										1.6	8.0			1.5	64.5	
BRN	2	PM	12/10/96	9:00	bno										67	64	68		7	12	7		
BRN	2	PM	12/10/96	9:00	bno	4									64			66	12			10	
BRN	2	AW	12/10/96	9:00	bno	1									66			66	8			8	

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
REPLICATE LEDGE COUNTS										
BRS	a	PM	08/10/96	11:30	ledge	95	91	94		
BRS	a	PM	08/10/96	11:30	ledge	104	93		95	
BRS	a	AW	08/10/96	14:30	ledge	101	104	105	103.3	
BRS	a	MC	08/10/96	16:30	ledge	101	98	100	99.7	
BRS	a	total	08/10/96		ledge				98.7	
BRS	a	total	08/10/96		ledge		4.9	4.9		
BRS	c	PM	08/10/96	12:30-15:40	ledge	137	137	149	141.0	
BRS	c	AW	08/10/96	15:30	ledge	166	154	147	155.7	
BRS	c	MC	08/10/96	16:30	ledge	127	123	133	127.7	
BRS	c	total	08/10/96		ledge				141.4	
BRS	c	total	08/10/96		ledge		13.7	9.7		
BRS	d	PM	08/10/96	16:50	ledge	123	117	127	122.3	
BRS	d	AW	08/10/96	16:30	ledge	121	126	123	123.3	
BRS	d	MC	08/10/96	14:30	ledge	112	113	114	113.0	
BRS	d	total	08/10/96		ledge				119.6	
BRS	d	total	08/10/96		ledge		5.7	4.8		
BRS	9	PM	09/10/96	13:30	ledge	218	221	218		
BRS	9	PM	09/10/96	13:30	ledge	222			220	
BRS	9	AW	09/10/96	12:00	ledge	212	216	201		
BRS	9	AW	09/10/96	12:00	ledge	204	212		209	
BRS	9	MC	09/10/96	9:30	ledge	235	235	240		
BRS	9	MC	09/10/96	9:30	ledge	235	217		232	
BRS	9	total	09/10/96		ledge				220	
BRS	9	total	09/10/96		ledge		7.3	3.3		
REPLICATE BNO ACROSS OR DOWN COUNTS										
BRN	1	PM	12/10/96	8:30	bno	23	23		23	
BRN	1	AW	12/10/96	8:30	bno	22			22	
BRN	1	MC	12/10/96	8:30	bno	23	23	23	23	
BRN	1	total	12/10/96	8:30	bno				23	
BRN	1	total	12/10/96	8:30	bno		0.4	1.8		
BRN	2	PM	12/10/96	9:00	bno	74	76	75		
BRN	2	PM	12/10/96	9:00	bno	76			75	
BRN	2	AW	12/10/96	9:00	bno	74			74	

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk				mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean												
						N	On Egg																On Empty Nest				On Nest				Extra			
							1st	2nd	3rd														1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
BRN	2	MC	12/10/96	9:00	bno	3											67	67	68	67	9	9	9	9										
BRN	2	total	12/10/96	9:00	bno	8														66				9										
BRN	2	total	12/10/96	9:00	bno	sd	CV									1.6	2.4					2.0	21.5											
BRN	3	PM	12/10/96	9:30	bno	2										192	190		191	30	52		41											
BRN	3	AW	12/10/96	9:30	bno	2										176	177		177	46	48		47											
BRN	3	MC	12/10/96	9:30	bno	3										195	194	190	193	26	25	20	24											
BRN	3	total	12/10/96	9:30	bno	7													188				35											
BRN	3	total	12/10/96	8:30	bno	sd	CV									7.9	4.2					13.0	36.8											
BRN	14	PM	12/10/96	10:00	bno	3										59	65	59	61	7	7	7	7											
BRN	14	AW	12/10/96	10:00	bno	3										53	57	56	55	10	12	11	11											
BRN	14	MC	12/10/96	10:00	bno	3										59	61	60	60	6	6	6	6											
BRN	14	total	12/10/96	10:00	bno	9													59				8											
BRN	14	total	12/10/96	10:00	bno	sd	CV										3.3	5.7				2.3	29.3											
BRN	15	PM	12/10/96	10:30	bno	3										31	29	31	30	5	5	5	5											
BRN	15	AW	12/10/96	10:30	bno	2										28	30		29	6	6		6											
BRN	15	MC	12/10/96	10:30	bno	3										35	31	35	34	4	2	2	3											
BRN	15	total	12/10/96	10:30	bno	8													31				4											
BRN	15	total	12/10/96	10:30	bno	sd	CV										2.5	8.2				1.6	36.5											
BRN	6	MC	12/10/96	11:00	bno	3										110	117	116	114	9	8	9	9											
BRN	6	MC	12/10/96	11:00	bno	sd	CV										3.8	3.3				0.6	6.7											
BRN	5	MC	12/10/96	11:00	bno	3										280	288	282	283	43	46	40	43											
BRN	5	MC	12/10/96	11:00	bno	sd	CV										4.2	1.5				3.0	7.0											
BRN	13	PM	12/10/96	11:00	bno	2										373	364		369	60	60		60											
BRN	13	PM	12/10/96	11:00	bno	sd	CV										6.4	1.7				0.0	0.0											
BRN	7	PM	12/10/96	11:00	bno	2										176	179		178	30	41		36											
BRN	7	PM	12/10/96	11:00	bno	sd	CV										2.1	1.2				7.8	21.9											
BRN	10b	PM	12/10/96	11:00	bno	2										46	47		47	3	3		3											
BRN	10b	PM	12/10/96	11:00	bno	sd	CV										0.7	1.5				0.0	0.0											
BRN	10a	PM	12/10/96	11:00	bno	2										64	66		65	5	5		5											
BRN	10a	PM	12/10/96	11:00	bno	sd	CV										1.4	2.2				0.0	0.0											
HP	1b	PM	13/10/96	9:00	bno	2										29	27		28	5	5		5											
HP	1b	AW	13/10/96	9:00	bno	2										22	26		24	1	5		3											
HP	1b	MC	13/10/96	9:00	bno	2										22	24		23	1	1		1											
HP	1b	total	13/10/96	9:00	bno	6													25				3											
HP	1b	total	13/10/96	9:00	bno	sd	CV										2.8	11.3				2.2	73.0											
HP	1c-west	PM	13/10/96	9:00	bno	2										32	32		32	5	5		5											

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
BRN	2	MC	12/10/96	9:00	bno	76	76	77	76	
BRN	2	total	12/10/96	9:00	bno				76	
BRN	2	total	12/10/96	9:00	bno		1.1	1.4		
BRN	3	PM	12/10/96	9:30	bno	222	242		232	
BRN	3	AW	12/10/96	9:30	bno	222	225		224	
BRN	3	MC	12/10/96	9:30	bno	221	219	210	217	
BRN	3	total	12/10/96	9:30	bno				223	
BRN	3	total	12/10/96	8:30	bno		9.6	4.3		
BRN	14	PM	12/10/96	10:00	bno	66	72	66	68	
BRN	14	AW	12/10/96	10:00	bno	63	69	67	66	
BRN	14	MC	12/10/96	10:00	bno	65	67	66	66	
BRN	14	total	12/10/96	10:00	bno				67	
BRN	14	total	12/10/96	10:00	bno		2.5	3.8		
BRN	15	PM	12/10/96	10:30	bno	36	34	36	35	
BRN	15	AW	12/10/96	10:30	bno	34	36		35	
BRN	15	MC	12/10/96	10:30	bno	39	33	37	36	
BRN	15	total	12/10/96	10:30	bno				36	
BRN	15	total	12/10/96	10:30	bno		1.9	5.4		
BRN	6	MC	12/10/96	11:00	bno	119	125	125	123	
BRN	6	MC	12/10/96	11:00	bno		3.5	2.8		
BRN	5	MC	12/10/96	11:00	bno	323	334	322	326	
BRN	5	MC	12/10/96	11:00	bno		6.7	2.0		
BRN	13	PM	12/10/96	11:00	bno	433	424		429	
BRN	13	PM	12/10/96	11:00	bno		6.4	1.5		
BRN	7	PM	12/10/96	11:00	bno	206	220		213	
BRN	7	PM	12/10/96	11:00	bno		9.9	4.6		
BRN	10b	PM	12/10/96	11:00	bno	49	50		50	
BRN	10b	PM	12/10/96	11:00	bno		0.7	1.4		
BRN	10a	PM	12/10/96	11:00	bno	69	71		70	
BRN	10a	PM	12/10/96	11:00	bno		1.4	2.0		
HP	1b	PM	13/10/96	9:00	bno	34	32		33	
HP	1b	AW	13/10/96	9:00	bno	23	31		27	
HP	1b	MC	13/10/96	9:00	bno	23	25		24	
HP	1b	total	13/10/96	9:00	bno				28	
HP	1b	total	13/10/96	9:00	bno		4.9	17.5		
HP	1c-west	PM	13/10/96	9:00	bno	37	37		37	

Colony	Sector	Observer	Date	Time	Count type	Campbellm o llym aw k																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
HP	1c-west	AW	13/10/96	9:00	bno	2												37	35		36	8	9		9
HP	1c-west	MC	13/10/96	9:00	bno	3												29	31	30	30	1	1	3	2
HP	1c-west	total	13/10/96	9:00	bno	7															32				5
HP	1c-west	total	13/10/96	9:00	bno	sd	CV												2.8	8.7			3.2	69.0	
HP	1c-east	PM	13/10/96	9:00	bno	2												156	165		161	30	26		28
HP	1c-east	AW	13/10/96	9:00	bno	2												153	148		151	31	24		28
HP	1c-east	total	13/10/96	9:00	bno	4															156				28
HP	1c-east	total	13/10/96	9:00	bno	sd	CV												7.1	4.6			3.3	11.9	
METHOD COMPARISONS																									
BRS	a	PM	08/10/96	11:30	ledge													87	84	85		8	7	9	
BRS	a	PM	08/10/96	11:30	ledge	5												96	85		87	8	8		8
BRS	a	total	08/10/96		ledge	11															87.5				11.2
BRS	a	PM	08/10/96	16:30	nest		74			74	12			12	86						86	15			15
	% difference	total																		1.8				-25.5	
	% difference	PM																		1.6				-46.7	
BRS	c	total	08/10/96		ledge	9															108.9				32.6
BRS	c	AW MC	08/10/96	17:00	nest	1	93			93	18			18	111						111	37			37
	% difference	total																		-1.9				-12.0	
BRS	d	total	08/10/96		ledge	9															88.4				31.1
BRS	d	PM	08/10/96	17:10	nest	1	73			73	19			19	92						92	35			35
	% difference	total																		-3.9				-11.1	
BRS	9	total	09/10/96		ledge	14															169.6				50.9
BRS	9	PM	09/10/96	14:15	nest	1	156			156	19			19	175						175	37			37
	% difference	total																		-3.1				37.5	
BRS	12	PM	08/10/96	17:00	ledge	1	210			210	37			37	247						247	63			63
BRS	12	PM	09/10/96	15:26	nest	1	209			209	53			53	262						262	31			31
	% difference	PM																		-5.7				103.2	
BRS	17	PM	10/10/96	15:00	view	1									516						516	76			76
BRS	17	AW	10/10/96	9:30	nest	1	520			520	72			72	592						592	59			59
	% difference																			-12.8				28.8	
BRS	14	PM	10/10/96	15:10	view	1									199						199	34			34
BRS	14	MC	10/10/96	16:30	nest	1	177			177	42			42	219						219	30			30
	% difference																			-9.1				13.3	
BRS	13	PM	09/10/96	15:30	view	1									227						227	73			73



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HP	1c-west	AW	13/10/96	9:00	bno	45	44		45	
HP	1c-west	MC	13/10/96	9:00	bno	30	32	33	32	
HP	1c-west	total	13/10/96	9:00	bno				37	
HP	1c-west	total	13/10/96	9:00	bno		5.8	15.8		
HP	1c-east	PM	13/10/96	9:00	bno	186	191		189	
HP	1c-east	AW	13/10/96	9:00	bno	184	172		178	
HP	1c-east	total	13/10/96	9:00	bno				183	
HP	1c-east	total	13/10/96	9:00	bno		8.1	4.4		
METHOD COMPARISONS										
BRS	a	PM	08/10/96	11:30	ledge	95	91	94		
BRS	a	PM	08/10/96	11:30	ledge	104	93		95	
BRS	a	total	08/10/96		ledge				98.7	
BRS	a	PM	08/10/96	16:30	nest	101			101	
	% difference	total							-2.3	
	% difference	PM							-5.5	
BRS	c	total	08/10/96		ledge				141.4	
BRS	c	AW MC	08/10/96	17:00	nest	148			148	
	% difference	total							-4.4	
BRS	d	total	08/10/96		ledge				119.6	
BRS	d	PM	08/10/96	17:10	nest	127			127	
	% difference	total							-5.9	
BRS	9	total	09/10/96		ledge				220.4	
BRS	9	PM	09/10/96	14:15	nest	212			212	
	% difference	total							4.0	
BRS	12	PM	08/10/96	17:00	ledge	310			310	
BRS	12	PM	09/10/96	15:26	nest	293			293	
	% difference	PM							5.8	
BRS	17	PM	10/10/96	15:00	view	592			592	
BRS	17	AW	10/10/96	9:30	nest	651			651	
	% difference								-9.1	
BRS	14	PM	10/10/96	15:10	view	233			233	
BRS	14	MC	10/10/96	16:30	nest	249			249	
	% difference								-6.4	
BRS	13	PM	09/10/96	15:30	view	300			300	

Colony	Sector	Observer	Date	Time	Count type	Campbellm o llym aw k																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BRS	13	AW	09/10/96	16:30	nest	1	235			235	30			30	265			265	57			57			
	% difference																	-14.3				28.1			
BRS	11	PM	09/10/96	15:35	view	1								229				229	41			41			
BRS	11	AW	09/10/96	15:30	nest	1	220			220	35			35	255			255	56			56			
	% difference																	-10.2				-26.8			
BRN	12	PM	12/10/96	13:50	view	1								422				422	56			56			
BRN	12	AW	12/10/96	13:50	nest	1	371			371	91			91	462			462	68			68			
	% difference																	-8.7				-17.6			
BRN	1	total	12/10/96	8:30	bno	6												20.5				2.3			
BRN	1	MC	12/10/96	13:00	nest	1	21			21	2			2	23			23	4			4			
	% difference																	-10.9				-41.7			
BRN	14	total	12/10/96	10:00	bno	9												58.8				8.0			
BRN	14	PM	12/10/96	12:00	nest	1	53			53	13			13	66			66	19			19			
	% difference																	-10.9				-57.9			
BRN	15	total	12/10/96	10:30	bno	8												31				4			
BRN	15	PM	12/10/96	12:30	nest	1	23			23	6			6	29			29	7			7			
	% difference																	7.8				-37.5			
BRN	6	MC	12/10/96	11:00	bno	3								110	117	116		114	9	8	9	9			
BRN	6	MC	12/10/96	15:00	nest	1	103			103	18			18	121			121	11			11			
	% difference																	-5.5				-21.2			
BRN	5	MC	12/10/96	11:00	bno	3								280	288	282		283	43	46	40	43			
BRN	5	MC	12/10/96	15:00	nest	1	258			258	62			62	320			320	49			49			
	% difference																	-11.5				-12.2			
BRN	13	PM	12/10/96	11:00	bno	2								373	364			369	60	60		60			
BRN	13	AW	12/10/96	12:00	nest	1	268			268	60			60	328			328	54			54			
	% difference																	12.3				11.1			
BRN	7	PM	12/10/96	11:00	bno	2								176	179			178	30	41		36			
BRN	7	PM /AW	12/10/96	15:30	nest	1	157			157	18			18	175			175	37			37			
	% difference																	1.4				-4.1			
BRN	10b	PM	12/10/96	11:00	bno	2								46	47			47	3	3		3			
BRN	10b	PM	12/10/96	15:30	nest	1	33	4		19	4			4	37			37	11			11			
	% difference																	25.7				-72.7			
BRN	10a	PM	12/10/96	11:00	bno	2								64	66			65	5	5		5			
BRN	10a	AW	12/10/96	15:30	nest	1	53			53	12			12	65			65	11			11			

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
BRS	13	AW	09/10/96	16:30	nest	322			322	
	% difference							-6.8		
BRS	11	PM	09/10/96	15:35	view	270			270	
BRS	11	AW	09/10/96	15:30	nest	311			311	
	% difference							-13.2		
BRN	12	PM	12/10/96	13:50	view	478			478	
BRN	12	AW	12/10/96	13:50	nest	530			530	
	% difference							-9.8		
BRN	1	total	12/10/96	8:30	bno				22.8	
BRN	1	MC	12/10/96	13:00	nest	27			27	
	% difference							-15.4		
BRN	14	total	12/10/96	10:00	bno				66.8	
BRN	14	PM	12/10/96	12:00	nest	85			85	
	% difference							-21.4		
BRN	15	total	12/10/96	10:30	bno				36	
BRN	15	PM	12/10/96	12:30	nest	36			36	
	% difference							-1.0		
BRN	6	MC	12/10/96	11:00	bno	119	125	125	123	
BRN	6	MC	12/10/96	15:00	nest	132			132	
	% difference							-6.8		
BRN	5	MC	12/10/96	11:00	bno	323	334	322	326	
BRN	5	MC	12/10/96	15:00	nest	369			369	
	% difference							-11.6		
BRN	13	PM	12/10/96	11:00	bno	433	424		429	
BRN	13	AW	12/10/96	12:00	nest	382			382	
	% difference							12.2		
BRN	7	PM	12/10/96	11:00	bno	206	220		213	
BRN	7	PM / AW	12/10/96	15:30	nest	212			212	
	% difference							0.5		
BRN	10b	PM	12/10/96	11:00	bno	49	50		50	
BRN	10b	PM	12/10/96	15:30	nest	48			48	
	% difference							3.1		
BRN	10a	PM	12/10/96	11:00	bno	69	71		70	
BRN	10a	AW	12/10/96	15:30	nest	76			76	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
	% difference																0.0					-54.5			
HP	1b	total	13/10/96	9:00	bin	6												25				3			
HP	1b	AW	13/10/96		nest	1	32			32	3			3	35			35	6			6			
	% difference																-28.6					-50.0			
HP	1c-west	total	13/10/96	9:00	bin	7												32				5			
HP	1c-west	AW MC	13/10/96	12:00	nest	1	48			48	8			8	56			56	8			8			
	% difference																-42.3					-42.9			
HP	1c-east	total	13/10/96	9:00	bin	4												156				28			
HP	1c-east	AW MC	13/10/96	12:00	nest	1	158			158	17			17	175			175	21			21			
	% difference																-11.1					32.1			

Colony	Sector	Observer	Date	Time	Count type					
						Total birds				
						1st	2nd	3rd	mean	comments
	% difference							-7.9		
HP	1b	total	13/10/96	9:00	bird				28	
HP	1b	AW	13/10/96		nest	41			41	
	% difference							-31.7		
HP	1c-west	total	13/10/96	9:00	bird				37	
HP	1c-west	AW MC	13/10/96	12:00	nest	64			64	
	% difference							-42.4		
HP	1c-east	total	13/10/96	9:00	bird				183	
HP	1c-east	AW MC	13/10/96	12:00	nest	196			196	
	% difference							-6.5		

# Part 4 Grey-headed mollymawk counts October-December 1996

Counts conducted by Peter Moore, Alan Wiltshire and Matt Charteris

Grey-headed Mollymawk Counts October-December 1996																					
Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk															
						On Egg				On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BULL ROCK SOUTH CENSUS																					
BRS	Square	PM	07/10/96		mark	1	0			0	0			0	0			0	0		0
BRS	a	PM	08/10/96	16:30	nest	1	0			0	0			0	0			0	0		0
BRS	b	PM	07/10/96		mark	1	0			0	0			0	0			0	0		0
BRS	c	AW/MC	08/10/96	17:00	nest	1	0			0	0			0	0			0	0		0
BRS	d	PM	08/10/96	17:10	nest	1	0			0	0			0	0			0	0		0
BRS	GH1	PM	08/10/96		mark	1	32			32	15			15	47			47	0		0
BRS	GH2	PM	08/10/96		mark	1	25			25	10			10	35			35	0		0
BRS	GH3	PM	07/10/96		mark	1	15			15	3			3	18			18	0		0
BRS	bb.tce	MC/PM	11/10/96		nest	1	5			5	3			3	8			8	0		0
BRS	1	PM	09/10/96	9:30	ledge	1								0				0	0		0
BRS	1a	AW	09/10/96	12:00	ledge	1								0				0	0		0
BRS	2	PM	09/10/96	9:40	ledge	1								8				8	0		0
BRS	3	PM	10/10/96	10:00	ledge	1								114				114	15		15
BRS	4	PM	09/10/96	14:30	ledge	1								16				16	1		1
BRS	5a	PM	09/10/96	10:45	nest	1	29			29	10			10	39			39	3		3
BRS	5b	AW	09/10/96	9:40	ledge	1								4				4	1		1
BRS	6	AW/PM	09/10/96	14:00	bno	2								13	13			13	1	1	1
BRS	7	AW	09/10/96	14:30	bno	1								6				6	2		2
BRS	9	PM	09/10/96	14:15	acc	1	0			0	0			0	0			0	0		0
BRS	10	AW	09/10/96	14:30	bno	1								15				15	3		3
BRS	11	AW	09/10/96	15:30	nest	1	0			0	0			0	0			0	0		0
BRS	12	PM	8,9/10/1996	15:26	nest	1	0			0	0			0	0			0	0		0
BRS	13	AW	09/10/96	16:30	nest	1	0			0	0			0	0			0	0		0
BRS	14	MC	10/10/96	16:30	nest	1	9			9	0			0	9			9	1		1
BRS	15	PM	09/10/96	16:00	ledge	1								0				0	0		0
BRS	16	MC	09/10/96	15:30	nest	1	1			1	0			0	1			1	0		0
BRS	17	AW	10/10/96	9:30	nest	1	6			6	0			0	6			6	1		1
BRS	18	AW	10/10/96	10:15	view	1								0				0	0		0
BRS	19	PM	10/10/96	9:30	nest	1	8			8	6			6	14			14	1		1
BRS	20	AW	10/10/96	10:30	bno	1								28				28	2		2
BRS	21a	MC	10/10/96	9:30	nest	1	0			0	1			1	1			1	0		0
BRS	21b	MC/AW	10/10/96	10:30	nest	1	22			22	6			6	28			28	3		3
BRS	21b	MC/AW	10/10/96	10:30	view	1								13				13	1		1
BRS	22	MC	10/10/96	9:00	nest	1	51			51	11			11	62			62	4		4
BRS	SorTam	PM	10/10/96	9:00	ledge	1								0				0	2		2

Grey-headed Mollumawk Counts October-December 1996										
Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
BULL ROCK SOUTH CENSUS										
BRS	Square	PM	07/10/96		mark	0			0	
BRS	a	PM	08/10/96	16:30	nest	0			0	
BRS	b	PM	07/10/96		mark	0			0	
BRS	c	AW/MC	08/10/96	17:00	nest	0			0	birds included in GH1
BRS	d	PM	08/10/96	17:10	nest	0			0	birds included in GH1
BRS	GH1	PM	08/10/96		mark	47			47	
BRS	GH2	PM	08/10/96		mark	35			35	
BRS	GH3	PM	07/10/96		mark	18			18	
BRS	bb.tce	MC/PM	11/10/96		nest	8			8	
BRS	1	PM	09/10/96	9:30	ledge	0			0	birds included in GH1
BRS	1a	AW	09/10/96	12:00	ledge	0			0	
BRS	2	PM	09/10/96	9:40	ledge	8			8	plus birds in GH1
BRS	3	PM	10/10/96	10:00	ledge	129			129	
BRS	4	PM	09/10/96	14:30	ledge	17			17	
BRS	5a	PM	09/10/96	10:45	nest	42			42	
BRS	5b	AW	09/10/96	9:40	ledge	5			5	
BRS	6	AW/PM	09/10/96	14:00	bin	14	14		14	
BRS	7	AW	09/10/96	14:30	bin	8			8	
BRS	9	PM	09/10/96	14:15	acc	0			0	
BRS	10	AW	09/10/96	14:30	bin	18			18	
BRS	11	AW	09/10/96	15:30	nest	0			0	
BRS	12	PM	8,9/10/1996	15:26	nest	0			0	
BRS	13	AW	09/10/96	16:30	nest	0			0	
BRS	14	MC	10/10/96	16:30	nest	10			10	
BRS	15	PM	09/10/96	16:00	ledge	0			0	
BRS	16	MC	09/10/96	15:30	nest	1			1	
BRS	17	AW	10/10/96	9:30	nest	7			7	
BRS	18	AW	10/10/96	10:15	view	0			0	
BRS	19	PM	10/10/96	9:30	nest	15			15	
BRS	20	AW	10/10/96	10:30	bin	30			30	
BRS	21a	MC	10/10/96	9:30	nest	1			1	
BRS	21b	MC/AW	10/10/96	10:30	nest	31			31	
BRS	21b	MC/AW	10/10/96	10:30	view	14			14	
BRS	22	MC	10/10/96	9:00	nest	66			66	
BRS	SorTam	PM	10/10/96	9:00	ledge	2			2	



Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																
						On Egg					On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
SUM of all counts																		485				41
SUM of nest visit counts									203					65				268				13
% of all bids on a nest																		92.2				
% of occupied nests containing an egg									75.7													
% of all bids on an egg									72.2													
Sum of ledge counts																		142				19
Sum of view down																		13				1
Sum of bino view down																		62				8
BULL ROCK NORTH CENSUS																						
BRN	1	MC	12/10/96	13:00	nest	1	21			21	8			8	29			29	8			8
BRN	2	PM/AW/M	12/10/96	8:45	bino	8									20	18	21.67	20	3.67	2	2.67	3
BRN	3	PM/AW/M	12/10/96	8:50	bino	7									3	2	3	3	0	0	0	0
BRN	4	MC	12/10/96	10:00	bino	3									13	14	14	14	0	1	1	1
BRN	5	MC	12/10/96	15:00	nest	1	1			1	3			3	4			4	1			1
BRN	6	MC	12/10/96	15:00	nest	1	43			43	22			22	65			65	13			13
BRN	7	PM/AW	12/10/96	15:30	nest	1	0			0	0			0	0			0	0			0
BRN	8	AW	12/10/96	10:30	bino	1								12				12	1			1
BRN	9	PM/AW	12/10/96	10:30	bino	4								0				0	0			0
BRN	10a	AW	12/10/96	15:30	nest	1	0			0	0			0	0			0	0			0
BRN	10b	PM	12/10/96	15:30	nest	1	0			0	0			0	0			0	0			0
BRN	11	PM	12/10/96	14:50	nest	1	6			6	3			3	9			9	1			1
BRN	12	AW	12/10/96	13:50	nest	1	128			128	19			19	147			147	24			24
BRN	13	AW	12/10/96	12:00	nest	1	56			56	15			15	71			71	13			13
BRN	13a	AW	12/10/96	12:00	nest	1	5			5	0			0	5			5	0			0
BRN	14	PM	12/10/96	12:00	nest	1	8			8	6			6	14			14	2			2
BRN	15	PM	12/10/96	12:30	nest	1	53			53	13			13	66			66	5			5
BRN	16	AW	12/10/96	12:00	bino	1	28			28	8			8	36			36	2			2
BRN	17	AW	12/10/96	12:00	bino	1	15			15	0			0	15			15	1			1
BRN	18	AW	12/10/96	12:00	bino	1	13			13	8			8	21			21	3			3
SUM of all counts																		530				77
SUM of nest visit counts										321				89				410				67
% of all bids on a nest																		87.3				
% of occupied nests containing an egg										78.3												
% of all bids on an egg										67.3												
Sum of bino view across																		120				10

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
SUM ofallcounts									526	
SUM ofnestvisitcounts									281	
% ofallbirds on a nest										
% ofoccupied nests containing an egg										
% ofallbirds on an egg										
Sum ofledge counts									161	
Sum ofview down									14	
Sum ofbino view down									70	
BULL ROCK NORTH CENSUS										
BRN	1	MC	12/10/96	13:00	nest	37			37	
BRN	2	PM AW /	12/10/96	8:45	bino	23.67	20	24.34	23	
BRN	3	PM AW /	12/10/96	8:50	bino	3	2	3	3	
BRN	4	MC	12/10/96	10:00	bino	13	15	15	14	
BRN	5	MC	12/10/96	15:00	nest	5			5	
BRN	6	MC	12/10/96	15:00	nest	78			78	
BRN	7	PM AW	12/10/96	15:30	nest	0			0	
BRN	8	AW	12/10/96	10:30	bino	13			13	
BRN	9	PM AW	12/10/96	10:30	bino	0			0	
BRN	10a	AW	12/10/96	15:30	nest	0			0	
BRN	10b	PM	12/10/96	15:30	nest	0			0	
BRN	11	PM	12/10/96	14:50	nest	10			10	
BRN	12	AW	12/10/96	13:50	nest	171			171	
BRN	13	AW	12/10/96	12:00	nest	84			84	
BRN	13a	AW	12/10/96	12:00	nest	5			5	
BRN	14	PM	12/10/96	12:00	nest	16			16	
BRN	15	PM	12/10/96	12:30	nest	71			71	
BRN	16	AW	12/10/96	12:00	bino	38			38	
BRN	17	AW	12/10/96	12:00	bino	16			16	
BRN	18	AW	12/10/96	12:00	bino	24			24	
SUM ofallcounts									608	
SUM ofnestvisitcounts									477	
% ofallbirds on a nest										
% ofoccupied nests containing an egg										
% ofallbirds on an egg										
Sum ofbino view across									131	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																										
						On Egg					On Empty Nest				On Nest				Extra													
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean										
HOOKERS PENNSULA																																
HP	1a	AW	13/10/96	12:30	nest	1	34			34	6			6	40			40	4			4										
HP	1b	AW	13/10/96		nest	1	32			32	9			9	41			41	3			3										
HP	1c	AW MC	13/10/96		nest	1	96			96	19			19	115			115	10			10										
HP	2a	PM	13/10/96	11:30	nest	1	37			37	9			9	46			46	4			4										
HP	2b	AW	13/10/96		nest	4	1			1	2			2	3			3	2			2										
HP	2c	AW	13/10/96		nest	1	40			40	3			3	43			43	5			5										
HP	2d	AW	13/10/96		nest	1	14			14	4			4	18			18	1			1										
HP	3a	PM	13/10/96	11:30	nest	1	19			19	6			6	25			25	4			4										
HP	3b1	PM	13/10/96	11:30	nest	1	10			10	2			2	12			12	1			1										
HP	3b2	PM	13/10/96	11:30	nest	1	4			4	1			1	5			5	1			1										
HP	3c	MC	13/10/96	10:30	nest	3	92			92	15			15	107			107	11			11										
HP	3d	MC	13/10/96	10:30	nest	1	42			42	4			4	46			46	3			3										
HP	3e	AW	13/10/96	10:30	nest	1	80			80	9			9	89			89	4			4										
HP	4	MC	13/10/96	10:15	nest	1	11			11	2			2	13			13	2			2										
HP	5	AW	13/10/96	10:15	nest	1	3			3	0			0	3			3	1			1										
SUM of all counts																		606			56											
SUM of nest visit counts																		515			91			606			56					
% of all bids on a nest																								91.5								
% of occupied nests containing an egg																																
% of all bids on an egg																																
HOOKERS FINGER COMBINED COLONIES CENSUS																																
HF	6a	AW	14/10/96	9:30	nest	1	10			10	3			3	13			13	3			3										
HF	6b	AW	14/10/96	10:00	nest	1	113			113	13			13	126			126	7			7										
HF	6c	AW	14/10/96	11:00	nest	1	36			36	4			4	40			40	1			1										
HF	5a	MC	14/10/96	11:30	nest	1	42			42	8			8	50			50	8			8										
HF	5b	MC	14/10/96	10:30	nest	1	20			20	6			6	26			26	7			7										
HF	5c	MC	14/10/96	10:00	nest	1	18			18	0			0	18			18	1			1										
HF	5c-top	MC	14/10/96	10:00	nest	1	0			0	0			0	0			0	0			0										
HF	5d	MC	14/10/96	9:30	nest	1	10			10	8			8	18			18	2			2										
HF	3a	PM	14/10/96	10:00	nest	1	52			52	7			7	59			59	2			2										
HF	3b	PM	14/10/96	10:10	nest	1	7			7	3			3	10			10	3			3										
HF	3c	PM	14/10/96	10:20	nest	1	9			9	4			4	13			13	3			3										
HF	3d	PM	14/10/96	10:30	nest	1	69			69	18			18	87			87	6			6										

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HOOKERS PENNSULA										
HP	1a	AW	13/10/96	12:30	nest	44			44	
HP	1b	AW	13/10/96		nest	44			44	
HP	1c	AW MC	13/10/96		nest	125			125	
HP	2a	PM	13/10/96	11:30	nest	50			50	
HP	2b	AW	13/10/96		nest	5			5	
HP	2c	AW	13/10/96		nest	48			48	
HP	2d	AW	13/10/96		nest	19			19	
HP	3a	PM	13/10/96	11:30	nest	29			29	
HP	3b1	PM	13/10/96	11:30	nest	13			13	
HP	3b2	PM	13/10/96	11:30	nest	6			6	
HP	3c	MC	13/10/96	10:30	nest	118			118	
HP	3d	MC	13/10/96	10:30	nest	49			49	
HP	3e	AW	13/10/96	10:30	nest	93			93	
HP	4	MC	13/10/96	10:15	nest	15			15	
HP	5	AW	13/10/96	10:15	nest	4			4	
SUM of all counts									662	
SUM of nest visit counts									662	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COMBINED COLONIES CENSUS										
HF	6a	AW	14/10/96	9:30	nest	16			16	
HF	6b	AW	14/10/96	10:00	nest	133			133	
HF	6c	AW	14/10/96	11:00	nest	41			41	
HF	5a	MC	14/10/96	11:30	nest	58			58	
HF	5b	MC	14/10/96	10:30	nest	33			33	
HF	5c	MC	14/10/96	10:00	nest	19			19	
HF	5c - top	MC	14/10/96	10:00	nest	0			0	
HF	5d	MC	14/10/96	9:30	nest	20			20	
HF	3a	PM	14/10/96	10:00	nest	61			61	
HF	3b	PM	14/10/96	10:10	nest	13			13	
HF	3c	PM	14/10/96	10:20	nest	16			16	
HF	3d	PM	14/10/96	10:30	nest	93			93	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																		
						On Egg					On Empty Nest				On Nest				Extra					
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean		
HF	3e	PM	14/10/96	10:40	nest	1	8			8	2			2	10			10	1			1		
HF	3f	PM	14/10/96	10:50	nest	1	13			13	8			8	21			21	2			2		
HF	2a	MC	14/10/96	12:30	nest	1	18			18	4			4	22			22	1			1		
HF	2b	MC	14/10/96	12:00	nest	1	27			27	8			8	35			35	3			3		
HF	2c	PM	14/10/96	13:00	nest	1	32			32	2			2	34			34	2			2		
HF	2d	AW	14/10/96	12:30	nest	1	35			35	7			7	42			42	2			2		
HF	2e	AW	14/10/96		nest	1	8			8	0			0	8			8	0			0		
HF	2f	AW	14/10/96	12:00	nest	1	28			28	7			7	35			35	7			7		
HF	2g	AW	14/10/96		nest	1	17			17	1			1	18			18	2			2		
HF	2h	PM	14/10/96		nest	1	97			97	18			18	115			115	23			23		
HF	2i	PM	14/10/96		nest	1	44			44	6			6	50			50	2			2		
HF	2j	PM	14/10/96		nest	1	36			36	4			4	40			40	8			8		
HF	2k	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0		
HF	2l	PM	14/10/96		nest	1	13			13	4			4	17			17	5			5		
HF	2m	PM	14/10/96		nest	1	45			45	2			2	47			47	4			4		
HF	2n	PM	14/10/96	11:00	nest	1	0			0	1			1	1			1	0			0		
HF	2p	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0		
SUM of all counts																		955				105		
SUM of nest visit counts										807				148				955				105		
% of all bids on a nest																		90.1						
% of occupied nests containing an egg										84.5														
% of all bids on an egg										76.1														
HOOKERS FINGER COLONY 6 CENSUS																								
HF	6a	AW	14/10/96	9:30	nest	1	10			10	3			3	13			13	3			3		
HF	6b	AW	14/10/96	10:00	nest	1	113			113	13			13	126			126	7			7		
HF	6c	AW	14/10/96	11:00	nest	1	36			36	4			4	40			40	1			1		
SUM of all counts																		179				11		
SUM of nest visit counts										159				20				179				11		
% of all bids on a nest																			94.2					
% of occupied nests containing an egg										88.8														
% of all bids on an egg										83.7														

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HF	3e	PM	14/10/96	10:40	nest	11			11	
HF	3f	PM	14/10/96	10:50	nest	23			23	missed in 1995
HF	2a	MC	14/10/96	12:30	nest	23			23	
HF	2b	MC	14/10/96	12:00	nest	38			38	
HF	2c	PM	14/10/96	13:00	nest	36			36	
HF	2d	AW	14/10/96	12:30	nest	44			44	
HF	2e	AW	14/10/96		nest	8			8	
HF	2f	AW	14/10/96	12:00	nest	42			42	
HF	2g	AW	14/10/96		nest	20			20	
HF	2h	PM	14/10/96		nest	138			138	
HF	2i	PM	14/10/96		nest	52			52	
HF	2j	PM	14/10/96		nest	48			48	
HF	2k	PM	14/10/96		nest	0			0	no sign of recent bid activity
HF	2l	PM	14/10/96		nest	22			22	
HF	2m	PM	14/10/96		nest	51			51	
HF	2n	PM	14/10/96	11:00	nest	1			1	some confusion about locality
HF	2p	PM	14/10/96		nest	0			0	
SUM of all counts									1060	
SUM of nest visit counts									1060	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 6 CENSUS										
HF	6a	AW	14/10/96	9:30	nest	16			16	
HF	6b	AW	14/10/96	10:00	nest	133			133	
HF	6c	AW	14/10/96	11:00	nest	41			41	
SUM of all counts									190	
SUM of nest visit counts									190	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																	
						On Egg					On Empty Nest				On Nest				Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
HOOKERS FINGER COLONY 5 CENSUS																							
HF	5a	MC	14/10/96	11:30	nest	1	42			42	8			8	50			50	8			8	
HF	5b	MC	14/10/96	10:30	nest	1	20			20	6			6	26			26	7			7	
HF	5c	MC	14/10/96	10:00	nest	1	18			18	0			0	18			18	1			1	
HF	5c-top	MC	14/10/96	10:00	nest	1	0			0	0			0	0			0	0			0	
HF	5d	MC	14/10/96	9:30	nest	1	10			10	8			8	18			18	2			2	
SUM of all counts																		112				18	
SUM of nest visit counts										90					22				112				18
% of all birds on a nest																		86.2					
% of occupied nests containing an egg										80.4													
% of all birds on an egg										69.2													
HOOKERS FINGER COLONY 3 CENSUS																							
HF	3a	PM	14/10/96	10:00	nest	1	52			52	7			7	59			59	2			2	
HF	3b	PM	14/10/96	10:10	nest	1	7			7	3			3	10			10	3			3	
HF	3c	PM	14/10/96	10:20	nest	1	9			9	4			4	13			13	3			3	
HF	3d	PM	14/10/96	10:30	nest	1	69			69	18			18	87			87	6			6	
HF	3e	PM	14/10/96	10:40	nest	1	8			8	2			2	10			10	1			1	
HF	3f	PM	14/10/96	10:50	nest	1	13			13	8			8	21			21	2			2	
SUM of all counts																		200				17	
SUM of nest visit counts										158					42				200				17
% of all birds on a nest																		92.2					
% of occupied nests containing an egg										79.0													
% of all birds on an egg										72.8													
HOOKERS FINGER COLONY 2 CENSUS																							
HF	2a	MC	14/10/96	12:30	nest	1	18			18	4			4	22			22	1			1	
HF	2b	MC	14/10/96	12:00	nest	1	27			27	8			8	35			35	3			3	
HF	2c	PM	14/10/96	13:00	nest	1	32			32	2			2	34			34	2			2	
HF	2d	AW	14/10/96	12:30	nest	1	35			35	7			7	42			42	2			2	
HF	2e	AW	14/10/96		nest	1	8			8	0			0	8			8	0			0	
HF	2f	AW	14/10/96	12:00	nest	1	28			28	7			7	35			35	7			7	
HF	2g	AW	14/10/96		nest	1	17			17	1			1	18			18	2			2	
HF	2h	PM	14/10/96		nest	1	97			97	18			18	115			115	23			23	

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HOOKERS FINGER COLONY 5 CENSUS										
HF	5a	MC	14/10/96	11:30	nest	58			58	
HF	5b	MC	14/10/96	10:30	nest	33			33	
HF	5c	MC	14/10/96	10:00	nest	19			19	
HF	5c - top	MC	14/10/96	10:00	nest	0			0	
HF	5d	MC	14/10/96	9:30	nest	20			20	
SUM of all counts									130	
SUM of nest visit counts									130	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 3 CENSUS										
HF	3a	PM	14/10/96	10:00	nest	61			61	
HF	3b	PM	14/10/96	10:10	nest	13			13	
HF	3c	PM	14/10/96	10:20	nest	16			16	
HF	3d	PM	14/10/96	10:30	nest	93			93	
HF	3e	PM	14/10/96	10:40	nest	11			11	
HF	3f	PM	14/10/96	10:50	nest	23			23	missed in 1995
SUM of all counts									217	
SUM of nest visit counts									217	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 2 CENSUS										
HF	2a	MC	14/10/96	12:30	nest	23			23	
HF	2b	MC	14/10/96	12:00	nest	38			38	
HF	2c	PM	14/10/96	13:00	nest	36			36	
HF	2d	AW	14/10/96	12:30	nest	44			44	
HF	2e	AW	14/10/96		nest	8			8	
HF	2f	AW	14/10/96	12:00	nest	42			42	
HF	2g	AW	14/10/96		nest	20			20	
HF	2h	PM	14/10/96		nest	138			138	



Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																	
						On Egg					On Empty Nest				On Nest				Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
HF	2:	PM	14/10/96		nest	1	44			44	6			6	50			50	2			2	
HF	2:	PM	14/10/96		nest	1	36			36	4			4	40			40	8			8	
HF	2k	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0	
HF	2:	PM	14/10/96		nest	1	13			13	4			4	17			17	5			5	
HF	2m	PM	14/10/96		nest	1	45			45	2			2	47			47	4			4	
HF	2n	PM	14/10/96	11:00	nest	1	0			0	1			1	1			1	0			0	
HF	2p	PM	14/10/96		nest	1	0			0	0			0	0			0	0			0	
SUM of all counts																		464				59	
SUM of nest visit counts										400				64				464				59	
% of all birds on a nest																		88.7					
% of occupied nests containing an egg										86.2													
% of all birds on an egg										76.5													
COURREJOLLES ISTHMUS CENSUS																							
C1	1a	AW	14/10/96	15:30	nest	1	19			19	8			8	27			27	9			9	
C1	1b	MC	14/10/96	15:30	nest	1	9			9	2			2	11			11	5			5	
C1	1c	MC	14/10/96	16:00	nest	1	47			47	14			14	61			61	7			7	
C1	1d	AL	14/10/96	16:00	nest	1	41			41	9			9	50			50	16			16	
C1	1e	AL	14/10/96	16:30	nest	1	56			56	19			19	75			75	12			12	
C1	1f	MC	14/10/96	16:30	nest	1	66			66	20			20	86			86	19			19	
C1	JDK	PM	14/10/96	15:30	nest	1	29			29	11			11	40			40	13			13	
SUM of all counts																		350				81	
SUM of nest visit counts										267				83				350				81	
% of all birds on a nest																		81.2					
% of occupied nests containing an egg										76.3													
% of all birds on an egg										61.9													
EASTERN COLONES CENSUS																							
EC	1	PM	15/10/96		side	1									0			0	0			0	
EC	2	AW	15/10/96		nest	1	0			0	0			0	0			0	0			0	
EC	3	AW	15/10/96		nest	1	0			0	0			0	0			0	0			0	
EC	4	PM	15/10/96		side	1									0			0	0			0	
EC	5a	PM MC	15/10/96		nest	1	5			5	1			1	6			6	1			1	
EC	5b	AW	15/10/96		nest	1	1			1	0			0	1			1	0			0	
EC	6a-upper	PM	15/10/96		nest	1	15			15	2			2	17			17	1			1	
EC	6a-lwer	PM	15/10/96		view	1									0			0	0			0	
EC	6b-upper	AW	15/10/96		nest	1	2			2	0			0	2			2	0			0	

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HF	2:	PM	14/10/96		nest	52			52	
HF	2:	PM	14/10/96		nest	48			48	
HF	2k	PM	14/10/96		nest	0			0	no sign of recent bid activity
HF	2:	PM	14/10/96		nest	22			22	
HF	2m	PM	14/10/96		nest	51			51	
HF	2n	PM	14/10/96	11:00	nest	1			1	some confusion about locality
HF	2p	PM	14/10/96		nest	0			0	
SUM of all counts									523	
SUM of nest visit counts									523	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
COURREJOLLES ISTHMUS CENSUS										
C1	1a	AW	14/10/96	15:30	nest	36			36	
C1	1b	MC	14/10/96	15:30	nest	16			16	
C1	1c	MC	14/10/96	16:00	nest	68			68	
C1	1d	AL	14/10/96	16:00	nest	66			66	
C1	1e	AL	14/10/96	16:30	nest	87			87	
C1	1f	MC	14/10/96	16:30	nest	105			105	
C1	JDK	PM	14/10/96	15:30	nest	53			53	
SUM of all counts									431	
SUM of nest visit counts									431	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
EASTERN COLONIES CENSUS										
EC	1	PM	15/10/96		side	0			0	
EC	2	AW	15/10/96		nest	0			0	
EC	3	AW	15/10/96		nest	0			0	
EC	4	PM	15/10/96		side	0			0	
EC	5a	PM MC	15/10/96		nest	7			7	
EC	5b	AW	15/10/96		nest	1			1	
EC	6a-upper	PM	15/10/96		nest	18			18	
EC	6a-lower	PM	15/10/96		view	0			0	
EC	6b-upper	AW	15/10/96		nest	2			2	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																	
						On Egg					On Empty Nest				On Nest				Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
EC	6b-bwer	PM	15/10/96		view	1									5			5	4			4	
EC	7-upper	AW	15/10/96		nest	1	5			5	2			2	7			7	1			1	
EC	7-bwer	PM	15/10/96		side	1									5			5	2			2	
EC	8a	PM	15/10/96		nest	1	8			8	4			4	12			12	1			1	
EC	8b	PM	15/10/96		side	1									9			9	0			0	
EC	9	PM MC	15/10/96		nest	1	23			23	4			4	27			27	2			2	
EC	10-upper	MC	15/10/96		nest	1	3			3	0			0	3			3	0			0	
EC	10-bwer	PM	15/10/96		nest	1	40			40	6			6	46			46	4			4	
EC	11-upper	MC	15/10/96		nest	1	2			2	0			0	2			2	0			0	
EC	11-bwer	PM	15/10/96		nest	1	29			29	6			6	35			35	3			3	
EC	12	MC	15/10/96		nest	1	11			11	4			4	15			15	3			3	
EC	13a	AW	15/10/96		nest	1	27			27	4			4	31			31	5			5	
EC	13b/14 upper	MC	15/10/96		nest	1	2			2	0			0	2			2	1			1	
EC	13b/14 mid	PM	15/10/96		nest	1	15			15	5			5	20			20	10			10	
EC	13b/14 bwer	AW	15/10/96		nest	1	25			25	3			3	28			28	5			5	
EC	15	PM AW M C	15/10/96		nest	1	94			94	28			28	122			122	22			22	
EC	15-bwer	PM	15/10/96		bno	3									50			50	13			13	
EC	16/17	AW	15/10/96		nest	1	38			38	6			6	44			44	6			6	
EC	18	MC	15/10/96		nest	1	5			5	0			0	5			5	1			1	
EC	19	AW	15/10/96		nest	1	16			16	1			1	17			17	3			3	
EC	20-bwer	AW	15/10/96		nest	1	24			24	3			3	27			27	1			1	
EC	20-upper	MC	15/10/96		nest	1	3			3	0			0	3			3	0			0	
EC	23a	AW	15/10/96		bno	1									0			0	0			0	
EC	23b/23c	MC	15/10/96		bno	1									0			0	0			0	
EC	24	MC	15/10/96		view	1									0			0	0			0	
SUM of all counts																		541				89	
SUM of nest visit counts										393					79			472				70	
% of all birds on a nest																		85.9					
% of occupied nests containing an egg										83.3													
% of all birds on an egg										72.5													
Sum of edge / side view																		14				2	
Sum of view down																		5				4	
Sum of bno view down																		50					13

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
EC	6b-bwer	PM	15/10/96		view	9			9	
EC	7-upper	AW	15/10/96		nest	8			8	
EC	7-bwer	PM	15/10/96		side	7			7	
EC	8a	PM	15/10/96		nest	13			13	
EC	8b	PM	15/10/96		side	9			9	
EC	9	PM MC	15/10/96		nest	29			29	
EC	10-upper	MC	15/10/96		nest	3			3	
EC	10-bwer	PM	15/10/96		nest	50			50	
EC	11-upper	MC	15/10/96		nest	2			2	
EC	11-bwer	PM	15/10/96		nest	38			38	
EC	12	MC	15/10/96		nest	18			18	
EC	13a	AW	15/10/96		nest	36			36	
EC	13b/14 upper	MC	15/10/96		nest	3			3	
EC	13b/14 mid	PM	15/10/96		nest	30			30	
EC	13b/14 bwer	AW	15/10/96		nest	33			33	
EC	15	PM AW / MC	15/10/96		nest	144			144	
EC	15-bwer	PM	15/10/96		bino	63			63	
EC	16/17	AW	15/10/96		nest	50			50	
EC	18	MC	15/10/96		nest	6			6	
EC	19	AW	15/10/96		nest	20			20	
EC	20-bwer	AW	15/10/96		nest	28			28	
EC	20-upper	MC	15/10/96		nest	3			3	
EC	23a	AW	15/10/96		bino	0			0	
EC	23b/23c	MC	15/10/96		bino	0			0	
EC	24	MC	15/10/96		view	0			0	
SUM of all counts									630	
SUM of nest visit counts									542	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of ledge / side view									16	
Sum of view down									9	
Sum of bino view down									63	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																	
						On Egg					On Empty Nest				On Nest				Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
ISLE DE JEANETTE MARE TELESCOPE COUNT																							
DJ	left	PM AW	26/10/96	15:00	tele	3																	
DJ	right	PM AW	26/10/96	16:00	tele	2																	
SUM of all counts																							
COURREJOLLES PENNSULA TELESCOPE COUNTS																							
CP	A1	AW	18/10/96	8:30	tele	1									15		15	0				0	
CP	A2	AW	18/10/96		tele	1									71		71	0				0	
CP	A3	AW	18/10/96		tele	1									65		65	0				0	
CP	A4	AW	18/10/96		tele	1									49		49	0				0	
CP	A5	AW	18/10/96		tele	1									10		10	0				0	
CP	A6	AW	18/10/96		tele	1									29		29	0				0	
CP	A7	AW	18/10/96		tele	1									27		27	0				0	
CP	A8	AW	18/10/96		tele	1									20		20	0				0	
CP	A9	AW	18/10/96		tele	1									16		16	0				0	
CP	A10	AW	18/10/96		tele	1									53		53	0				0	
CP	A11	AW	18/10/96	10:00	tele	1									37		37	0				0	
CP	A12	AW	18/10/96	8:00	tele	1									9		9	0				0	
CP	A13	AW	18/10/96		tele	1									20		20	0				0	
CP	A14	AW	18/10/96		tele	1									333		333	0				0	
CP	A15	AW	18/10/96		tele	1									72		72	0				0	
CP	A16	AW	18/10/96		tele	1									61		61	0				0	
CP	A17	AW	18/10/96		tele	1									18		18	0				0	
CP	A18	AW	18/10/96		tele	1									41		41	0				0	
CP	A19	AW	18/10/96		tele	1									69		69	0				0	
CP	A20	AW	18/10/96		tele	1									69		69	0				0	
CP	A21	AW	18/10/96		tele	1									30		30	0				0	
CP	A22	AW	18/10/96		tele	1									63		63	0				0	
CP	A23	AW	18/10/96		tele	1									105		105	0				0	
CP	A24	AW	18/10/96		tele	1									103		103	0				0	

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				comments
						1st	2nd	3rd	mean	
ISLE DE JEANETTE MARIE TELESCOPE COUNT										
DJ	left	PM /AW	26/10/96	15:00	tele	0			0	from Courneyles Isthmus
DJ	right	PM /AW	26/10/96	16:00	tele	0			0	from near Azimuth
SUM of all counts									0	
COURREJOLLES PENNSULA TELESCOPE COUNTS										
CP	A1	AW	18/10/96	8:30	tele	15			15	
CP	A2	AW	18/10/96		tele	71			71	
CP	A3	AW	18/10/96		tele	65			65	
CP	A4	AW	18/10/96		tele	49			49	
CP	A5	AW	18/10/96		tele	10			10	
CP	A6	AW	18/10/96		tele	29			29	
CP	A7	AW	18/10/96		tele	27			27	
CP	A8	AW	18/10/96		tele	20			20	
CP	A9	AW	18/10/96		tele	16			16	
CP	A10	AW	18/10/96		tele	53			53	
CP	A11	AW	18/10/96	10:00	tele	37			37	
CP	A12	AW	18/10/96	8:00	tele	9			9	
CP	A13	AW	18/10/96		tele	20			20	
CP	A14	AW	18/10/96		tele	333			333	
CP	A15	AW	18/10/96		tele	72			72	
CP	A16	AW	18/10/96		tele	61			61	
CP	A17	AW	18/10/96		tele	18			18	
CP	A18	AW	18/10/96		tele	41			41	
CP	A19	AW	18/10/96		tele	69			69	
CP	A20	AW	18/10/96		tele	69			69	
CP	A21	AW	18/10/96		tele	30			30	
CP	A22	AW	18/10/96		tele	63			63	
CP	A23	AW	18/10/96		tele	105			105	
CP	A24	AW	18/10/96		tele	103			103	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra				
						On Egg																
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
CP	A25	AW	18/10/96		tele	1									171			171	0			0
CP	A26	AW	18/10/96		tele	1									45			45	0			0
CP	A27	AW	18/10/96		tele	1									11			11	0			0
CP	A28	AW	18/10/96		tele	1									7			7	0			0
CP	A29	AW	18/10/96		tele	1									24			24	0			0
CP	A30	AW	18/10/96		tele	1									55			55	0			0
CP	A31	AW	18/10/96		tele	1									32			32	0			0
CP	A32	AW	18/10/96		tele	1									30			30	0			0
CP	A33	AW	18/10/96		tele	1									95			95	0			0
CP	A34	AW	18/10/96		tele	1									67			67	0			0
CP	A35	AW	18/10/96		tele	1									129			129	0			0
CP	A36	AW	18/10/96		tele	1									122			122	0			0
CP	A37	AW	18/10/96	12:45	tele	1									429			429	0			0
CP	P1	PM	18/10/96	8:30	tele	1									8			8	0			0
CP	P2	PM	18/10/96		tele	1									22			22	2			2
CP	P3	PM	18/10/96		tele	1									16			16	0			0
CP	P4	PM	18/10/96		tele	1									42			42	0			0
CP	P5	PM	18/10/96		tele	1									10			10	0			0
CP	P6	PM	18/10/96		tele	1									14			14	1			1
CP	P7	PM	18/10/96		tele	1									31			31	0			0
CP	P8	PM	18/10/96		tele	1									56			56	0			0
CP	P9	PM	18/10/96		tele	1									14			14	0			0
CP	P10a	PM	18/10/96		tele	1									17			17	0			0
CP	P10b	PM	18/10/96		tele	1									3			3	1			1
CP	P10c	PM	18/10/96		tele	1									51			51	2			2
CP	P10d	PM	18/10/96		tele	1									28			28	1			1
CP	P10e	PM	18/10/96		tele	1									33			33	2			2
CP	P11a	PM	18/10/96	10:00	tele	1									0			0	0			0
CP	P11b	PM	18/10/96	8:00	tele	1									3			3	0			0
CP	P11c	PM	18/10/96		tele	1									11			11	0			0
CP	P12	PM	18/10/96		tele	1									92			92	13			13

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
CP	A25	AW	18/10/96		tele	171			171	
CP	A26	AW	18/10/96		tele	45			45	
CP	A27	AW	18/10/96		tele	11			11	
CP	A28	AW	18/10/96		tele	7			7	
CP	A29	AW	18/10/96		tele	24			24	
CP	A30	AW	18/10/96		tele	55			55	
CP	A31	AW	18/10/96		tele	32			32	
CP	A32	AW	18/10/96		tele	30			30	
CP	A33	AW	18/10/96		tele	95			95	
CP	A34	AW	18/10/96		tele	67			67	
CP	A35	AW	18/10/96		tele	129			129	
CP	A36	AW	18/10/96		tele	122			122	
CP	A37	AW	18/10/96	12:45	tele	429			429	
CP	P1	PM	18/10/96	8:30	tele	8			8	
CP	P2	PM	18/10/96		tele	24			24	
CP	P3	PM	18/10/96		tele	16			16	
CP	P4	PM	18/10/96		tele	42			42	
CP	P5	PM	18/10/96		tele	10			10	
CP	P6	PM	18/10/96		tele	15			15	
CP	P7	PM	18/10/96		tele	31			31	
CP	P8	PM	18/10/96		tele	56			56	
CP	P9	PM	18/10/96		tele	14			14	
CP	P10a	PM	18/10/96		tele	17			17	
CP	P10b	PM	18/10/96		tele	4			4	
CP	P10c	PM	18/10/96		tele	53			53	
CP	P10d	PM	18/10/96		tele	29			29	
CP	P10e	PM	18/10/96		tele	35			35	
CP	P11a	PM	18/10/96	10:00	tele	0			0	
CP	P11b	PM	18/10/96	8:00	tele	3			3	
CP	P11c	PM	18/10/96		tele	11			11	
CP	P12	PM	18/10/96		tele	105			105	



Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra				
						On Egg																
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
CP	P13a	PM	18/10/96	9:00	teb	1									77			77	5			5
CP	P13b	PM	18/10/96		teb	1									77			77	4			4
CP	P14	PM	18/10/96		teb	1									7			7	1			1
CP	P15	PM	18/10/96		teb	1									77			77	7			7
CP	P16	PM	18/10/96		teb	1									14			14	8			8
CP	P17	PM	18/10/96		teb	1									55			55	3			3
CP	P18	PM	18/10/96		teb	1									25			25	5			5
CP	P19	PM	18/10/96		teb	1									74			74	2			2
CP	P20	PM	18/10/96		teb	1									23			23	4			4
CP	P21	PM	18/10/96		teb	1									58			58	9			9
CP	P22	PM	18/10/96		teb	1									12			12	0			0
CP	P23	PM	18/10/96		teb	1									102			102	6			6
CP	P24	PM	18/10/96		teb	1									61			61	8			8
CP	P25	PM	18/10/96		teb	1									25			25	0			0
CP	P26	PM	18/10/96		teb	1									25			25	0			0
CP	P27	PM	18/10/96		teb	1									15			15	4			4
CP	P28	PM	18/10/96		teb	1									273			273	17			17
CP	P29	PM	18/10/96		teb	1									9			9	2			2
CP	P30	PM	18/10/96		teb	1									17			17	0			0
CP	P31	PM	18/10/96		teb	1									26			26	2			2
CP	P32	PM	18/10/96		teb	1									35			35	0			0
CP	P33	PM	18/10/96		teb	1									58			58	2			2
CP	P34	PM	18/10/96		teb	1									42			42	0			0
CP	P35	PM	18/10/96		teb	1									76			76	4			4
CP	P36	PM	18/10/96		teb	1									34			34	6			6
CP	P37	PM	18/10/96		teb	1									46			46	0			0
CP	P38	PM	18/10/96		teb	1									52			52	2			2
CP	P39	PM	18/10/96		teb	1									16			16	0			0
CP	P40	PM	18/10/96		teb	1									76			76	6			6
CP	P41	PM	18/10/96	12:45	teb	1									16			16	0			0

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
CP	P13a	PM	18/10/96	9:00	tele	82			82	
CP	P13b	PM	18/10/96		tele	81			81	
CP	P14	PM	18/10/96		tele	8			8	
CP	P15	PM	18/10/96		tele	84			84	
CP	P16	PM	18/10/96		tele	22			22	
CP	P17	PM	18/10/96		tele	58			58	
CP	P18	PM	18/10/96		tele	30			30	
CP	P19	PM	18/10/96		tele	76			76	
CP	P20	PM	18/10/96		tele	27			27	
CP	P21	PM	18/10/96		tele	67			67	
CP	P22	PM	18/10/96		tele	12			12	
CP	P23	PM	18/10/96		tele	108			108	
CP	P24	PM	18/10/96		tele	69			69	
CP	P25	PM	18/10/96		tele	25			25	
CP	P26	PM	18/10/96		tele	25			25	
CP	P27	PM	18/10/96		tele	19			19	
CP	P28	PM	18/10/96		tele	290			290	
CP	P29	PM	18/10/96		tele	11			11	
CP	P30	PM	18/10/96		tele	17			17	
CP	P31	PM	18/10/96		tele	28			28	
CP	P32	PM	18/10/96		tele	35			35	
CP	P33	PM	18/10/96		tele	60			60	
CP	P34	PM	18/10/96		tele	42			42	
CP	P35	PM	18/10/96		tele	80			80	
CP	P36	PM	18/10/96		tele	40			40	
CP	P37	PM	18/10/96		tele	46			46	
CP	P38	PM	18/10/96		tele	54			54	
CP	P39	PM	18/10/96		tele	16			16	
CP	P40	PM	18/10/96		tele	82			82	
CP	P41	PM	18/10/96	12:45	tele	16			16	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																		
						On Egg					On Empty Nest				On Nest				Extra					
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean		
SUM of all counts																			4556				129	
Grey-headed Mollymawk Summary Oct. 1996																								
Eastern colonies			SUM of all counts																541				89	
BullRock South			SUM of all counts																485				41	
BullRock North			SUM of all counts																530				77	
Hookers Peninsula			SUM of all counts																606				56	
Hookers Finger			SUM of all counts																955				105	
Counreples Isthmus			SUM of all counts																350				81	
Isle de Jeanette Mare			telescope count of total bids minus estimated extras																0				0	
Counreples Peninsula			Photo estimate of total bids minus estimated extras																4153				532	
Total																			7620				981	
Eastern colonies			SUM of nest visit counts							393					79				472				70	
BullRock South			SUM of nest visit counts							203					65				268				13	
BullRock North			SUM of nest visit counts							321					89				410				67	
Hookers Peninsula			SUM of nest visit counts							515					91				606				56	
Hookers Finger			SUM of nest visit counts							807					148				955				105	
Counreples Isthmus			SUM of nest visit counts							267					83				350				81	
Total										2506					555				3061				392	
% of all bids on a nest																			88.6					
% of occupied nests containing an egg										81.9														
% of all bids on an egg										72.6														
Eastern colonies			Sum of edge/side counts																14				2	
BullRock South			Sum of edge counts																142				19	
BullRock South			Sum of view down																13				1	
Eastern colonies			Sum of view down																5				4	
Eastern colonies			Sum of bho down																50				13	
BullRock South			Sum of bho down																62				8	
BullRock North			Sum of bho view across																120				10	
Sum of nest visits																			3061				392	
Sum of edge counts																			156				21	

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
SUM of all counts								4685		
Grey-headed Mollusk Summary Oct. 1996										
Eastern cobnies		SUM of all counts						630		
BullRock South		SUM of all counts						526		
BullRock North		SUM of all counts						608		
Hookers Peninsula		SUM of all counts						662		
Hookers Finger		SUM of all counts						1060		
Couroupes Isthmus		SUM of all counts						431		
Isle de Jeanette Marie		telescope count of total birds						0		
Couroupes Peninsula		Photo estimate of total birds						4685		
Total								8602		
Eastern cobnies		SUM of nest visit counts						542		
BullRock South		SUM of nest visit counts						281		
BullRock North		SUM of nest visit counts						477		
Hookers Peninsula		SUM of nest visit counts						662		
Hookers Finger		SUM of nest visit counts						1060		
Couroupes Isthmus		SUM of nest visit counts						431		
Total								3453		
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Eastern cobnies		Sum of ledge/side counts						16		
BullRock South		Sum of ledge counts						161		
BullRock South		Sum of view down						14		
Eastern cobnies		Sum of view down						9		
Eastern cobnies		Sum of bino down						63		
BullRock South		Sum of bino down						70		
BullRock North		Sum of bino view across						131		
Sum of nest visits								3453		
Sum of ledge counts								177		

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																	
						On Egg					On Empty Nest				On Nest				Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
Sum of view down																		18				5	
Sum of bno down																			112				21
Sum of bno across																			120				10
Sum of telescope counts																			4153				532
Total																			7620				981
% of all bids on a nest																			88.6				
<b>BULL ROCK SOUTH REPEAT COUNTS</b>																							
BRS	GH1	PM	08/10/96		nest	1	32																
BRS	GH1	PM	29/10/96		nest	1	34																
BRS	GH1	PM	18/11/96		nest	1	34																
BRS	GH1	PM	21/12/96		nest	1	31																
BRS	GH1	PM	08/10/96		nest	1	25																
BRS	GH1	PM	29/10/96		nest	1	28																
BRS	GH1	PM	18/11/96		nest	1	28																
BRS	GH1	PM	21/12/96		nest	1	26																
BRS	GH1	PM	08/10/96		nest	1	15																
BRS	GH1	PM	29/10/96		nest	1	15																
BRS	GH1	PM	18/11/96		nest	1	15																
BRS	9	PM	10/10/96	14:15	nest	1	1			1	0		0	1			1	0			0		
BRS	9	PM	30/10/96	8:20	nest	1	1			1	0		0	1			1	0			0		
BRS	9	PM	19/11/96	9:20	nest	1	1			1	0		0	1			1	0			0		
BRS	9	PM	21/12/96	10:00	nest	1	1			1	0		0	1			1	0			0		
BRS	14	PM	10/10/96	16:30	nest	1	9			9	0		0	9			9	1			1		
BRS	14	PM	30/10/96	8:10	nest	1	7			7	0		0	7			7	0			0		
BRS	14	PM	19/11/96	8:30	nest	1	9			9	0		0	9			9	0			0		
BRS	14	PM	21/12/96	12:00	nest	1	9			9	0		0	9			9	0			0		
BRS	22	PM	10/10/96	9:00	nest	1	48			48	11		11	59			59	4			4		
BRS	22	PM	30/10/96	9:30	nest	1	43			43	4		4	47			47	1			1		
BRS	22	AW MC/P M	19/11/96	9:30	nest	1	43			43	13		13	56			56	11			11		
BRS	22	KE/BE	21/12/96	11:30	nest	1	32			32	14		14	46			46	9			9		

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
Sum of view down									23	
Sum of bino down									133	
Sum of bino across									131	
Sum of telescope counts									4685	
Total									8602	
% of all birds on a nest										
BULL ROCK SOUTH REPEAT COUNTS										
BRS	GH1	PM	08/10/96		nest					empty and extras not counted
BRS	GH1	PM	29/10/96		nest					empty and extras not counted
BRS	GH1	PM	18/11/96		nest					empty and extras not counted
BRS	GH1	PM	21/12/96		nest					30 chicks, 1 egg
BRS	GH1	PM	08/10/96		nest					empty and extras not counted
BRS	GH1	PM	29/10/96		nest					empty and extras not counted
BRS	GH1	PM	18/11/96		nest					empty and extras not counted
BRS	GH1	PM	21/12/96		nest					21 chicks, 5 eggs
BRS	GH1	PM	08/10/96		nest					empty and extras not counted
BRS	GH1	PM	29/10/96		nest					empty and extras not counted
BRS	GH1	PM	18/11/96		nest					empty and extras not counted
BRS	9	PM	10/10/96	14:15	nest	1			1	
BRS	9	PM	30/10/96	8:20	nest	1			1	
BRS	9	PM	19/11/96	9:20	nest	1			1	
BRS	9	PM	21/12/96	10:00	nest	1			1	1 chick
BRS	14	PM	10/10/96	16:30	nest	10			10	
BRS	14	PM	30/10/96	8:10	nest	7			7	
BRS	14	PM	19/11/96	8:30	nest	9			9	
BRS	14	PM	21/12/96	12:00	nest	9			9	8 chicks, 1 egg
BRS	22	PM	10/10/96	9:00	nest	63			63	
BRS	22	PM	30/10/96	9:30	nest	48			48	
BRS	22	AW MC / PM	19/11/96	9:30	nest	67			67	
BRS	22	KE/BE	21/12/96	11:30	nest	55			55	29 chicks, 3 eggs

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk															
						On Egg					On Empty Nest				On Nest				Extra		
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BULL ROCK NORTH REPEAT COUNTS																					
BRN	12	AW	12/10/96	13:50	nest	1	128			128	19			19	147			147	24		24
BRN	12	AW MC	30/10/96	12:45	nest	1	118			118	20			20	138			138	11		11
BRN	12	AW MC	19/11/96	11:20	nest	1	118			118	38			38	156			156	34		34
BRN	12	PM KE/BE	20/12/96	16:30	nest	1	104			104	25			25	129			129	20		20
BRN	13a	AW	12/10/96		nest	1	5			5	0			0	5			5	0		0
BRN	13a	PM	30/10/96	13:20	nest	1	5			5	0			0	5			5	0		0
BRN	13a	PM	19/11/96	11:30	nest	1	4			4	0			0	4			4	0		0
BRN	13a	KE	20/12/96	15:00	nest	1	4			4	0			0	4			4	0		0
BRN	14	PM	12/10/96	12:00	nest	1	8			8	6			6	14			14	2		2
BRN	14	PM	30/10/96	12:45	nest	1	8			8	0			0	8			8	0		0
BRN	14	PM	19/11/96	11:20	nest	1	8			8	4			4	12			12	2		2
BRN	14	PM	20/12/96	15:00	nest	1	6			6	6			6	12			12	3		3
BRN	15	PM	12/10/96	13:50	nest	1	53			53	13			13	66			66	5		5
BRN	15	PM	30/10/96	12:45	nest	1	51			51	8			8	59			59	4		4
BRN	15	PM	19/11/96	11:20	nest	1	49			49	10			10	59			59	6		6
BRN	15	PM	20/12/96	16:30	nest	1	45			45	9			9	54			54	6		6
HOOKERS FINGER REPEAT COUNTS																					
HF	5c	MC	14/10/96		nest	1	18			18	0			0	18			18	1		1
HF	5c	W	31/10/96	10:00	nest	1	17			17	2			2	19			19	1		1
HF	5c	MC	20/11/96	9:45	nest	1	17			17	3			3	20			20	2		2
HF	5c	PM	22/12/96	9:50	nest	1	17			17	0			0	17			17	0		0
HF	5d	MC	14/10/96	9:30	nest	1	10			10	8			8	18			18	2		2
HF	5d	MC	31/10/96	10:00	nest	1	12			12	4			4	16			16	5		5
HF	5d	MC	20/11/96	9:30	nest	1	11			11	5			5	16			16	2		2
HF	5d	PM	22/12/96	9:50	nest	1	8			8	1			1	9			9	6		6
HF	3a	PM	14/10/96	10:00	nest	1	52			52	7			7	59			59	2		2
HF	3a	MC AW	31/10/96	11:30	nest	1	51			51	3			3	54			54	4		4
HF	3a	PM	20/11/96	10:15	nest	1	48			48	9			9	57			57	4		4
HF	3a	PM	22/12/96	11:30	nest	1	45			45	5			5	50			50	3		3
HF	3b	PM	14/10/96		nest	1	7			7	3			3	10			10	3		3
HF	3b	PM	31/10/96	11:30	nest	1	6			6	4			4	10			10	1		1

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
BULL ROCK NORTH REPEAT COUNTS										
BRN	12	AW	12/10/96	13:50	nest	171			171	
BRN	12	AW MC	30/10/96	12:45	nest	149			149	
BRN	12	AW MC	19/11/96	11:20	nest	190			190	
BRN	12	PM KE/B	20/12/96	16:30	nest	149			149	88 chicks, 16 eggs
BRN	13a	AW	12/10/96		nest	5			5	
BRN	13a	PM	30/10/96	13:20	nest	5			5	
BRN	13a	PM	19/11/96	11:30	nest	4			4	
BRN	13a	KE	20/12/96	15:00	nest	4			4	3 chicks, 1 eggs
BRN	14	PM	12/10/96	12:00	nest	16			16	
BRN	14	PM	30/10/96	12:45	nest	8			8	
BRN	14	PM	19/11/96	11:20	nest	14			14	
BRN	14	PM	20/12/96	15:00	nest	15			15	6 chicks
BRN	15	PM	12/10/96	13:50	nest	71			71	
BRN	15	PM	30/10/96	12:45	nest	63			63	
BRN	15	PM	19/11/96	11:20	nest	65			65	
BRN	15	PM	20/12/96	16:30	nest	60			60	39 chicks, 6 eggs
HOOKERS FINGER REPEAT COUNTS										
HF	5c	MC	14/10/96		nest	19			19	
HF	5c	W	31/10/96	10:00	nest	20			20	
HF	5c	MC	20/11/96	9:45	nest	22			22	
HF	5c	PM	22/12/96	9:50	nest	17			17	16 chicks, 1 egg
HF	5d	MC	14/10/96	9:30	nest	20			20	
HF	5d	MC	31/10/96	10:00	nest	21			21	
HF	5d	MC	20/11/96	9:30	nest	18			18	
HF	5d	PM	22/12/96	9:50	nest	15			15	6 chicks, 2 eggs
HF	3a	PM	14/10/96	10:00	nest	61			61	
HF	3a	MC/AW	31/10/96	11:30	nest	58			58	
HF	3a	PM	20/11/96	10:15	nest	61			61	
HF	3a	PM	22/12/96	11:30	nest	53			53	40 chicks, 5 eggs
HF	3b	PM	14/10/96		nest	13			13	
HF	3b	PM	31/10/96	11:30	nest	11			11	



Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra				
						On Egg																
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
HF	3b	PM	20/11/96	10:00	nest	1	6			6	4			4	10			10	3			3
HF	3b	PM	22/12/96	11:30	nest	1	5			5	0			0	5			5	0			0
HF	3c	PM	14/10/96		nest	1	9			9	4			4	13			13	3			3
HF	3c	PM	31/10/96	11:30	nest	1	9			9	5			5	14			14	6			6
HF	3c	PM	20/11/96	9:50	nest	1	7			7	6			6	13			13	5			5
HF	3c	PM	22/12/96	11:30	nest	1	5			5	3			3	8			8	5			5
HF	2b	PM	14/10/96	12:00	nest	1	27			27	8			8	35			35	3			3
HF	2b	MC/AW	31/10/96	13:15	nest	1	30			30	8			8	38			38	7			7
HF	2b	AW	20/11/96	9:30	nest	1	29			29	8			8	37			37	6			6
HF	2b	PM	22/12/96	13:15	nest	1	24			24	6			6	30			30	4			4
HF	2h	PM	14/10/96	12:00	nest	1	97			97	18			18	115			115	23			23
HF	2h	MC/AW	31/10/96	14:00	nest	1	95			95	40			40	135			135	38			38
HF	2h	MC	20/11/96	11:00	nest	1	84			84	41			41	125			125	23			23
HF	2h	PM	22/12/96	12:40	nest	1	76			76	40			40	116			116	37			37
HF	2i	PM	14/10/96	11:30	nest	1	44			44	6			6	50			50	2			2
HF	2i	PM	31/10/96	12:50	nest	1	42			42	6			6	48			48	7			7
HF	2i	AW/PM	20/11/96	10:30	nest	1	40			40	8			8	48			48	4			4
HF	2i	PM	22/12/96	12:15	nest	1	31			31	8			8	39			39	7			7
COURREJOLLES ISTHMUS REPEAT COUNTS																						
CJ	1ad	AW	14/10/96	16:00	nest	1	60			60	17			17	77			77	25			25
CI	1ad	MC	31/10/96	17:30	nest	1	61			61	20			20	81			81	23			23
CI	1ad	MC	20/11/96	15:30	nest	1	51			51	17			17	68			68	27			27
CJ	1ad	PM	22/12/96	15:00	nest	1	34			34	20			20	54			54	29			29
CJ	1f	MC	14/10/96	16:30	nest	1	66			66	20			20	86			86	19			19
CI	1f	MC/PM	31/10/96	17:45	nest	1	67			67	8			8	75			75	19			19
CI	1f	MC	20/11/96	15:45	nest	1	62			62	17			17	79			79	27			27
CJ	1f	PM	22/12/96	15:00	nest	1	51			51	13			13	64			64	25			25
CJ	JDK	PM	14/10/96	15:30	nest	1	29			29	11			11	40			40	13			13
CI	JDK	PM	31/10/96	17:30	nest	1	36			36	15			15	51			51	5			5
CI	JDK	PM	20/11/96	16:00	nest	1	35			35	2			2	37			37	11			11
CJ	JDK	PM	22/12/96	16:20	nest	1	27			27	9			9	36			36	3			3

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HF	3b	PM	20/11/96	10:00	nest	13			13	
HF	3b	PM	22/12/96	11:30	nest	5			5	2 chicks, 3 eggs
HF	3c	PM	14/10/96		nest	16			16	
HF	3c	PM	31/10/96	11:30	nest	20			20	
HF	3c	PM	20/11/96	9:50	nest	18			18	
HF	3c	PM	22/12/96	11:30	nest	13			13	5 eggs
HF	2b	PM	14/10/96	12:00	nest	38			38	
HF	2b	MC/AW	31/10/96	13:15	nest	45			45	
HF	2b	AW	20/11/96	9:30	nest	43			43	
HF	2b	PM	22/12/96	13:15	nest	34			34	21 chicks, 3 eggs
HF	2h	PM	14/10/96	12:00	nest	138			138	
HF	2h	MC/AW	31/10/96	14:00	nest	173			173	
HF	2h	MC	20/11/96	11:00	nest	148			148	
HF	2h	PM	22/12/96	12:40	nest	153			153	64 chicks, 12 eggs
HF	2i	PM	14/10/96	11:30	nest	52			52	
HF	2i	PM	31/10/96	12:50	nest	55			55	
HF	2i	AW/PM	20/11/96	10:30	nest	52			52	
HF	2i	PM	22/12/96	12:15	nest	46			46	26 chicks, 5 eggs
COURREJOLLES ISTHMUS REPEAT COUNTS										
CJ	1a d	AW	14/10/96	16:00	nest	102			102	
CI	1a d	MC	31/10/96	17:30	nest	104			104	
CI	1a d	MC	20/11/96	15:30	nest	95			95	
CJ	1a d	PM	22/12/96	15:00	nest	83			83	30 chicks, 4 eggs
CJ	1f	MC	14/10/96	16:30	nest	105			105	
CI	1f	MC/PM	31/10/96	17:45	nest	94			94	
CI	1f	MC	20/11/96	15:45	nest	106			106	
CJ	1f	PM	22/12/96	15:00	nest	89			89	46 chicks, 5 eggs
CJ	JDK	PM	14/10/96	15:30	nest	53			53	
CI	JDK	PM	31/10/96	17:30	nest	56			56	
CI	JDK	PM	20/11/96	16:00	nest	48			48	
CJ	JDK	PM	22/12/96	16:20	nest	39			39	24 chicks, 3 eggs

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra			
						On Egg				On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
REPLICATE BNO ACROSS OR DOWN COUNTS																					
BRN	1	PM	12/10/96	8:30	bno	2								26	26		26	3	3		3
BRN	1	AW	12/10/96	8:30	bno	1								26			26	4			4
BRN	1	MC	12/10/96	8:30	bno	3								26	26	27	26	2	2	2	2
BRN	1	total	12/10/96	8:30	bno	6											26				3
BRN	1	total	12/10/96	8:30	bno	sd	CV								0.4	1.6			0.8	30.6	
BRN	2	PM	12/10/96	9:00	bno	3								19	21	20	20	3	4	4	4
BRN	2	AW	12/10/96	9:00	bno	1								18			18	2			2
BRN	2	MC	12/10/96	9:00	bno	3								21	22	22	22	3	2	3	3
BRN	2	total	12/10/96	9:00	bno	7											20				3
BRN	2	total	12/10/96	9:00	bno	sd	CV								1.5	7.4			0.8	27.2	
BRN	14	PM	12/10/96	10:00	bno	1								10			10	2			2
BRN	14	AW	12/10/96	10:00	bno	2								12	11		12	1	1		1
BRN	14	MC	12/10/96	10:00	bno	3								13	13	13	13	0	0	0	0
BRN	14	total	12/10/96	10:00	bno	6											12				1
BRN	14	total	12/10/96	10:00	bno	sd	CV								1.3	10.5			0.8	122.5	
BRN	15	PM	12/10/96	10:30	bno	3								63	60	63	62	7	10	7	8
BRN	15	AW	12/10/96	10:30	bno	2								58	58		58	7	7		7
BRN	15	MC	12/10/96	10:30	bno	3								52	59	58	56	5	5	4	5
BRN	15	total	12/10/96	10:30	bno	8											59				7
BRN	15	total	12/10/96	10:30	bno	sd	CV								3.5	5.9			1.9	28.5	
BRN	6	MC	12/10/96	11:00	bno	3								64	62	62	63	2	3	5	3
BRN	6	MC	12/10/96	11:00	bno	sd	CV								1.2	1.8			1.5	45.8	
BRN	5	MC	12/10/96	11:00	bno	3								3	3	3	3	0	0	0	0
BRN	5	MC	12/10/96	11:00	bno	sd	CV								0.0	0.0			0.0		
BRN	13	PM	12/10/96	11:00	bno	2								80	81		81	6	13		10
BRN	13	PM	12/10/96	11:00	bno	sd	CV								0.7	0.9			4.9	52.1	
HP	1a	PM	13/10/96	9:00	bno	3								41	42	41	41	3	3	3	3
HP	1a	AW	13/10/96	9:00	bno	2								39	39		39	1	1		1
HP	1a	MC	13/10/96	9:00	bno	1								39			39	3			3
HP	1a	total	13/10/96	9:00	bno	6											40				2
HP	1a	total	13/10/96	9:00	bno	sd	CV								1.3	3.3			1.0	44.3	
HP	1b	PM	13/10/96	9:00	bno	2								30	30		30	2	2		2
HP	1b	AW	13/10/96	9:00	bno	2								28	31		30	0	0		0
HP	1b	MC	13/10/96	9:00	bno	2								32	31		32	0	2		1
HP	1b	total	13/10/96	9:00	bno	6											30				1

Colony	Sector	Observer	Date	Time	Count type	Total birds			mean	comments
						1st	2nd	3rd		
REPLICATE BNO ACROSS OR DOWN COUNTS										
BRN	1	PM	12/10/96	8:30	bno	29	29		29	
BRN	1	AW	12/10/96	8:30	bno	30			30	
BRN	1	MC	12/10/96	8:30	bno	28	28	29	28	
BRN	1	total	12/10/96	8:30	bno				29	
BRN	1	total	12/10/96	8:30	bno		0.8	2.6		
BRN	2	PM	12/10/96	9:00	bno	22	25	24	24	
BRN	2	AW	12/10/96	9:00	bno	20			20	
BRN	2	MC	12/10/96	9:00	bno	24	24	25	24	
BRN	2	total	12/10/96	9:00	bno				23	
BRN	2	total	12/10/96	9:00	bno		1.8	7.7		
BRN	14	PM	12/10/96	10:00	bno	12			12	
BRN	14	AW	12/10/96	10:00	bno	13	12		13	
BRN	14	MC	12/10/96	10:00	bno	13	13	13	13	
BRN	14	total	12/10/96	10:00	bno				13	
BRN	14	total	12/10/96	10:00	bno		0.5	4.1		
BRN	15	PM	12/10/96	10:30	bno	70	70	70	70	
BRN	15	AW	12/10/96	10:30	bno	65	65		65	
BRN	15	MC	12/10/96	10:30	bno	57	64	62	61	
BRN	15	total	12/10/96	10:30	bno				65	
BRN	15	total	12/10/96	10:30	bno		4.6	7.0		
BRN	6	MC	12/10/96	11:00	bno	66	65	67	66	
BRN	6	MC	12/10/96	11:00	bno		1.0	1.5		
BRN	5	MC	12/10/96	11:00	bno	3	3	3	3	
BRN	5	MC	12/10/96	11:00	bno		0.0	0.0		
BRN	13	PM	12/10/96	11:00	bno	86	94		90	
BRN	13	PM	12/10/96	11:00	bno		5.7	6.3		
HP	1a	PM	13/10/96	9:00	bno	44	45	44	44	
HP	1a	AW	13/10/96	9:00	bno	40	40		40	
HP	1a	MC	13/10/96	9:00	bno	42			42	
HP	1a	total	13/10/96	9:00	bno				43	
HP	1a	total	13/10/96	9:00	bno		2.2	5.1		
HP	1b	PM	13/10/96	9:00	bno	32	32		32	
HP	1b	AW	13/10/96	9:00	bno	28	31		30	
HP	1b	MC	13/10/96	9:00	bno	32	33		33	
HP	1b	total	13/10/96	9:00	bno				31	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																
						On Egg					On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
HP	1b	total	13/10/96	9:00	bno	sd	CV									1.4	4.5			1.1	109.5	
HP	1c-east	PM	13/10/96	9:00	bno	2									91	89		90	8	9		9
HP	1c-east	AW	13/10/96	9:00	bno	2									99	97		98	7	5		6
HP	1c-east	total	13/10/96	9:00	bno	4												94				7
HP	1c-east	total	13/10/96	9:00	bno	sd	CV									4.8	5.1			1.7	23.6	
METHOD COMPARISONS																						
BRN	12	PM	12/10/96	13:50	view	1									104			104	25			25
BRN	12	AW	12/10/96	13:50	nest	1	128			128	19			19	147			147	24			24
	% difference																	-29.3				4.2
BRN	1	total	12/10/96	8:30	bno	6												26.2				2.7
BRN	1	MC	12/10/96	13:00	nest	1	21			21	8			8	29			29	8			8
	% difference																	-9.8				-66.7
BRN	14	total	12/10/96	10:00	bno	6												12.0				0.7
BRN	14	PM	12/10/96	12:00	nest	1	8			8	6			6	14			14	2			2
	% difference																	-14.3				-66.7
BRN	15	total	12/10/96	10:30	bno	8												59				7
BRN	15	PM	12/10/96	12:30	nest	1	53			53	13			13	66			66	5			5
	% difference																	-10.8				30.0
BRN	6	MC	12/10/96	11:00	bno	3								64	62	62		63	2	3	5	3
BRN	6	MC	12/10/96	15:00	nest	1	43			43	22			22	65			65	13			13
	% difference																	-3.6				-74.4
BRN	5	MC	12/10/96	11:00	bno	3								3	3	3		3	0	0	0	0
BRN	5	MC	12/10/96	15:00	nest	1	1			1	3			3	4			4	1			1
	% difference																	-25.0				-100
BRN	13	PM	12/10/96	11:00	bno	2								80	81			81	6	13		10
BRN	13	AW	12/10/96	12:00	nest	1	56			56	15			15	71			71	13			13
	% difference																	13.4				-26.9
HP	1a	total	13/10/96	9:00	bno	6												40				2

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
HP	1b	total	13/10/96	9:00	binocular		1.8	5.6		
HP	1c-east	PM	13/10/96	9:00	binocular	99	98		99	
HP	1c-east	AW	13/10/96	9:00	binocular	106	102		104	
HP	1c-east	total	13/10/96	9:00	binocular				101	
HP	1c-east	total	13/10/96	9:00	binocular		3.6	3.5		
METHOD COMPARISONS										
BRN	12	PM	12/10/96	13:50	view	129			129	
BRN	12	AW	12/10/96	13:50	nest	171			171	
	%							-24.6		
BRN	1	total	12/10/96	8:30	binocular				28.8	
BRN	1	MC	12/10/96	13:00	nest	37			37	
	% difference							-22.1		
BRN	14	total	12/10/96	10:00	binocular				12.7	
BRN	14	PM	12/10/96	12:00	nest	16			16	
	% difference							-20.8		
BRN	15	total	12/10/96	10:30	binocular				65	
BRN	15	PM	12/10/96	12:30	nest	71			71	
	% difference							-7.9		
BRN	6	MC	12/10/96	11:00	binocular	66	65	67	66	
BRN	6	MC	12/10/96	15:00	nest	78			78	
	% difference							-15.4		
BRN	5	MC	12/10/96	11:00	binocular	3	3	3	3	
BRN	5	MC	12/10/96	15:00	nest	5			5	
	% difference							-40.0		
BRN	13	PM	12/10/96	11:00	binocular	86	94		90	
BRN	13	AW	12/10/96	12:00	nest	84			84	
	% difference							7.1		
HP	1a	total	13/10/96	9:00	binocular				43	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																
						On Egg					On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
HP	1a	AW	13/10/96	12:30	nest	1	34			34	6			6	40			40	4			4
	% difference																0.4					-41.7
HP	1b	total	13/10/96	9:00	bird	6												30				1
HP	1b	AW	13/10/96		nest	1	32			32	9			9	41			41	3			3
	% difference																					-66.7
HP	1c-east	total	13/10/96	9:00	bird	4												94				7
HP	1c-east	AW MC	13/10/96	12:00	nest	1	93			93	19			19	112			112	10			10
	% difference																					-27.5
HP	2a	PM	13/10/96	10:30	view	4												40				4
HP	2a	PM	13/10/96	11:30	nest	1	37			37	9			9	46			46	4			4
	% difference																					0.0
HP	2c	PM	13/10/96	10:30	view	4												36				2
HP	2c	PM	13/10/96	11:30	nest	1	40			40	3			3	43			43	5			5
	% difference																					-60.0
HP	3a	PM	13/10/96	10:30	view	4												26				5
HP	3a	PM	13/10/96	11:30	nest	1	19			19	6			6	25			25	4			4
	% difference																					25.0
HP	3b	PM	13/10/96	10:30	view	4												13				2
HP	3b	PM	13/10/96	11:30	nest	1	14			14	3			3	17			17	2			2
	% difference																					0.0
																						-23.5

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HP	1a	AW	13/10/96	12:30	nest	44			44	
	% difference								-3.4	
HP	1b	total	13/10/96	9:00	bind				31	
HP	1b	AW	13/10/96		nest	44			44	
	% difference								-28.8	
HP	1c-east	total	13/10/96	9:00	bind				101	
HP	1c-east	AW MC	13/10/96	12:00	nest	122			122	
	% difference								-17.0	
HP	2a	PM	13/10/96	10:30	view				44	
HP	2a	PM	13/10/96	11:30	nest	50			50	
	% difference								-12.0	
HP	2c	PM	13/10/96	10:30	view				38	
HP	2c	PM	13/10/96	11:30	nest	48			48	
	% difference								-20.8	
HP	3a	PM	13/10/96	10:30	view				31	
HP	3a	PM	13/10/96	11:30	nest	29			29	
	% difference								6.9	
HP	3b	PM	13/10/96	10:30	view				15	
HP	3b	PM	13/10/96	11:30	nest	19			19	
	% difference								-21.1	



# Part 5 Campbell mollymawk counts October 1997

Counts conducted by Alan Wiltshire, Sheryl Hamilton and Brent Evans

Campbell Molyawk Counts October 1997																					
Colony	Sector	Observer	Date	Time	Count type	Campbell Molyawk															
						On Egg				On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BULL ROCK SOUTH CENSUS																					
BRS	Square, a & b	AW /BE /SH	08/10/97		nest	1	157			157	21			21	178			178	30		30
BRS	c	SH	08/10/97		nest	1	98			98	20			20	118			118	32		32
BRS	d	BE	08/10/97		nest	1	58			58	24			24	82			82	23		23
BRS	bb.tce	AW	08/10/97		nest	1	1152			1152	155			155	1307			1307	155		155
BRS	1	BE	08/10/97		nest	1	19			19	1			1	20			20	5		5
BRS	1a	SH	09/10/97		ledge	3								22	23	22		22	7	7	7
BRS	2	BE	08/10/97		nest	1	23			23	2			2	25			25	1		1
BRS	3	AW /SH	08/10/97		nest	1	412			412	79			79	491			491	50		50
BRS	4	AW	09/10/97		ledge	1								40			40	13			13
BRS	5a	SH	09/10/97		nest	1	303			303	64			64	367			367	66		66
BRS	5b	BE	09/10/97		ledge	2								576	554			565	72	77	75
BRS	6	AW	09/10/97		bno	1								218			218	79			79
BRS	7	AW	09/10/97		bno	1								29			29	3			3
BRS	9	BE	08/10/97		nest	1	157			157	27			27	184			184	26		26
BRS	10	SH	09/10/97		bno	3								167	164	163		165	47	51	48
BRS	11	SH	09/10/97		nest	1	217			217	27			27	244			244	60		60
BRS	12	BE	08/10/97		nest	1	225			225	40			40	265			265	19		19
BRS	13	SH	09/10/97		nest	1	179			179	32			32	211			211	45		45
BRS	14	SH	09/10/97		nest	1	167			167	34			34	201			201	20		20
BRS	15	BE	08/10/97		nest	1	300			300	53			53	353			353	23		23
BRS	16	AW	08/10/97		nest	1	179			179	33			33	212			212	30		30
BRS	17	AW	09/10/97		nest	1	504			504	50			50	554			554	115		115
BRS	18	BE	09/10/97		ledge	1								50			50	10			10
BRS	19	BE	08/10/97		nest	1	174			174	25			25	199			199	11		11
BRS	20	AW	09/10/97		bno	1								128			128	29			29
BRS	21a	BE	09/10/97		nest	1	620			620	107			107	727			727	70		70
BRS	21b	BE	09/10/97		nest	1	443			443	94			94	537			537	49		49
BRS	22	SH	08/10/97		nest	1	287			287	65			65	352			352	30		30
BRS	SorTam	BE	08/10/97		side	3								181	181	174		179	27	20	19
SUM of all counts																	8023				1146
SUM of nest visit counts										5674				953			6627				860
% of all birds on a nest																	87.5				
% of occupied nests containing an egg										85.6											
% of all birds on an egg										75.8											
Sum of ledge / side counts																	856				127
Sum of bno view down																	540				160

Campbell Molyawk Counts October 1997										
Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
BULL ROCK SOUTH CENSUS										
BRS	Square, a	AW /BE/S	08/10/97		nest	208			208	
BRS	c	SH	08/10/97		nest	150			150	
BRS	d	BE	08/10/97		nest	105			105	
BRS	bb.tce	AW	08/10/97		nest	1462			1462	
BRS	1	BE	08/10/97		nest	25			25	
BRS	1a	SH	09/10/97		ledge	29	30	29	29	
BRS	2	BE	08/10/97		nest	26			26	
BRS	3	AW /SH	08/10/97		nest	541			541	
BRS	4	AW	09/10/97		ledge	53			53	
BRS	5a	SH	09/10/97		nest	433			433	
BRS	5b	BE	09/10/97		ledge	648	631		640	
BRS	6	AW	09/10/97		bino	297			297	
BRS	7	AW	09/10/97		bino	32			32	
BRS	9	BE	08/10/97		nest	210			210	
BRS	10	SH	09/10/97		bino	214	215	211	213	
BRS	11	SH	09/10/97		nest	304			304	
BRS	12	BE	08/10/97		nest	284			284	
BRS	13	SH	09/10/97		nest	256			256	
BRS	14	SH	09/10/97		nest	221			221	
BRS	15	BE	08/10/97		nest	376			376	
BRS	16	AW	08/10/97		nest	242			242	
BRS	17	AW	09/10/97		nest	669			669	
BRS	18	BE	09/10/97		ledge	60			60	
BRS	19	BE	08/10/97		nest	210			210	
BRS	20	AW	09/10/97		bino	157			157	
BRS	21a	BE	09/10/97		nest	797			797	
BRS	21b	BE	09/10/97		nest	586			586	
BRS	22	SH	08/10/97		nest	382			382	
BRS	SorTam	BE	08/10/97		side	208	201	193	201	
SUM of all counts									9169	
SUM of nest visit counts									7487	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of ledge /side counts									983	
Sum of bino view down									699	

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk				On Empty Nest				On Nest				Extra																								
						N	On Egg			1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean																	
							1st	2nd	3rd																	mean																
BULL ROCK NORTH CENSUS																																										
BRN	1a	SH	10/10/97		bno	1									0			0	0		0																					
BRN	1b	SH	10/10/97		bno	1									0			0	0		0																					
BRN	1c	SH	10/10/97		bno	3									25	25	25	25	1	1	2	1																				
BRN	2	AW	10/10/97		bno	3									52	53	54	53	4	7	8	6																				
BRN	3	AW	10/10/97		bno	2									170	167		169	41	35		38																				
BRN	4	AW	10/10/97		bno	2									209	216		213	27	25		26																				
BRN	5	AW	10/10/97		bno	3									206	225	223	218	30	27	34	30																				
BRN	5a	AW	10/10/97		bno	2									57	57		57	5	10		8																				
BRN	6	AW /BE/SH	11/10/97		nest	3	85	92	86	88	10	7	12	10	95	99	98	97	5	4	6	5																				
BRN	7	SH	10/10/97		bno	3									200	191	188	193	31	32	38	34																				
BRN	8	SH	10/10/97		bno	3									138	129	142	136	47	47	41	45																				
BRN	9	SH	10/10/97		bno	3									40	40	40	40	1	1	1	1																				
BRN	10a	AW	10/10/97		bno	3									71	73	79	74	10	11	11	11																				
BRN	10b	SH	10/10/97		bno	3									42	44	43	43	2	5	6	4																				
BRN	11	AW	11/10/97	1150	nest	1	171			171	36			36	207			207	18			18																				
BRN	12	SH & AW	11/10/97		nest	1	389			389	81			81	470			470	49			49																				
BRN	13	BE	11/10/97		nest	1	253			253	77			77	330			330	37			37																				
BRN	13a	AW	10/10/97		nest	1	61			61	7			7	68			68	15			15																				
BRN	14	AW /BE/SH	11/10/97		nest	3	58	59	57	58	11	13	13	12	69	72	70	70	17	8	19	15																				
BRN	15	SH	10/10/97		nest	1	24			24	6			6	30			30	3			3																				
BRN	16	AW	10/10/97		bno	1									161			161	31			31																				
BRN	17	AW	10/10/97		bno	1									17			17	8			8																				
BRN	18	AW	10/10/97		bno	3									29	29	30	29	6	10	8	8																				
SUM of all counts																										2701				393												
SUM of nest visit counts																				1044														142								
% of all bids on a nest																																										
% of occupied nests containing an egg																																										
% of all bids on an egg																																										
Sum of bno across counts																																										

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				comments
						1st	2nd	3rd	mean	
BULL ROCK NORTH CENSUS										
BRN	1a	SH	10/10/97		bino	0			0	
BRN	1b	SH	10/10/97		bino	0			0	
BRN	1c	SH	10/10/97		bino	26	26	27	26	
BRN	2	AW	10/10/97		bino	56	60	62	59	
BRN	3	AW	10/10/97		bino	211	202		207	
BRN	4	AW	10/10/97		bino	236	241		239	
BRN	5	AW	10/10/97		bino	236	252	257	248	
BRN	5a	AW	10/10/97		bino	62	67		65	
		AW /BE/S								
BRN	6	H	11/10/97		nest	100	103	104	102	
BRN	7	SH	10/10/97		bino	231	223	226	227	
BRN	8	SH	10/10/97		bino	185	176	183	181	
BRN	9	SH	10/10/97		bino	41	41	41	41	
BRN	10a	AW	10/10/97		bino	81	84	90	85	
BRN	10b	SH	10/10/97		bino	44	49	49	47	
BRN	11	AW	11/10/97	1150	nest	225			225	
BRN	12	SH & AW	11/10/97		nest	519			519	
BRN	13	BE	11/10/97		nest	367			367	
BRN	13a	AW	10/10/97		nest	83			83	
		AW /BE/S								
BRN	14	H	11/10/97		nest	86	80	89	85	
BRN	15	SH	10/10/97		nest	33			33	
BRN	16	AW	10/10/97		bino	192			192	
BRN	17	AW	10/10/97		bino	25			25	
BRN	18	AW	10/10/97		bino	35	39	38	37	
SUM of all counts									3094	
SUM of nest visit counts									1414	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of bino across counts									1679	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																					
						On Egg					On Empty Nest				On Nest				Extra								
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean					
HOOKERS PENNSULA CENSUS																											
HP	1a	SH	12/10/97		nest	1											0				0						
HP	1b	SH	12/10/97		nest	1	34			34	3		3	37			37	8			8						
HP	1c	BE	12/10/97		nest/side	1	199			199	27		27	226			226	30			30						
HP	2a	AW	12/10/97	1245	nest	1	0			0	0		0	0			0	0			0						
HP	eastof2b	AW	12/10/97		bino	1								0			0	0			0						
HP	2b	SH/BE	12/10/97		view	4								56	52.5		54	12	15		14						
HP	2c	BE	12/10/97		nest	1	0			0	0		0	0			0	0			0						
HP	2d	BE	12/10/97		nest	1	0			0	0		0	0			0	0			0						
HP	3a	AW	12/10/97		nest	1	0			0	0		0	0			0	0			0						
HP	3b1	AW	12/10/97		nest	1	0			0	0		0	0			0	0			0						
HP	3b2	AW	12/10/97		nest	1	0			0	0		0	0			0	0			0						
HP	3c	AW/SH/BE	12/10/97	1500	nest	3	36	36	35	36	7	5	7	6	43	41	42	42	9	9	8	9					
HP	3d	BE	12/10/97		nest	1	9			9	3		3	12			12	2			2						
HP	3e	BE	12/10/97		nest	1	30			30	5		5	35			35	2			2						
HP	4	SH	12/10/97		nest	1	0			0	0		0	0			0	0			0						
HP	5	AW	12/10/97		nest	1	0			0	0		0	0			0	0			0						
SUM of all counts																406				64							
SUM of nest visit counts																308				44		352		51			
% of all birds on a nest																						86.6					
% of occupied nests containing an egg																87.4											
% of all birds on an egg																76.4											
Sum of view down counts																						54		14			
Sum of bino down																						0		0			
EASTERN COLONIES CENSUS																											
EC	1	AW	13/10/97		nest	1	17			17	4		4	21			21	4			4						
EC	1south	AW	13/10/97		side	1								5			5	0			0						
EC	2	AW	13/10/97		nest	1	23			23	2		2	25			25	10			10						
EC	2-bwer	AW	13/10/97		view	1								5			5	0			0						
EC	3	BE	13/10/97		view	1								22			22	4			4						
EC	4	AW	13/10/97		nest	1	17			17	2		2	19			19	4			4						
EC	5a	BE	13/10/97		nest	1	42			42	10		10	52			52	11			11						
EC	5b-upper	AW	13/10/97		nest	1	20			20	5		5	25			25	6			6						
EC	5b-bwer	AW	13/10/97		nest	1	6			6	1		1	7			7	2			2						
EC	6a-upper	SH	13/10/97		nest	1	24			24	3		3	27			27	14			14						
EC	6a-bwer	SH	13/10/97		view	1								10			10	1			1						
EC	6b-upper	BE	13/10/97		nest	1	18			18	4		4	22			22	9			9						

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HOOKERS PENNSULA CENSUS										
HP	1a	SH	12/10/97		nest	0			0	
HP	1b	SH	12/10/97		nest	45			45	
HP	1c	BE	12/10/97		nest/side	256			256	80 nests side view
HP	2a	AW	12/10/97	1245	nest	0			0	
HP	east of 2b	AW	12/10/97		bindo	0			0	
HP	2b	SH/BE	12/10/97		view	68	65		67	
HP	2c	BE	12/10/97		nest	0			0	
HP	2d	BE	12/10/97		nest	0			0	
HP	3a	AW	12/10/97		nest	0			0	
HP	3b1	AW	12/10/97		nest	0			0	
HP	3b2	AW	12/10/97		nest	0			0	
HP	3c	AW/SH/B	12/10/97	1500	nest	52	50	50	51	Count also repeated by BE & SH
HP	3d	BE	12/10/97		nest	14			14	
HP	3e	BE	12/10/97		nest	37			37	
HP	4	SH	12/10/97		nest	0			0	
HP	5	AW	12/10/97		nest	0			0	
SUM of all counts									469	
SUM of nest visit counts									403	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of view down counts									67	
Sum of bindo down									0	
EASTERN COLONIES CENSUS										
EC	1	AW	13/10/97		nest	25			25	
EC	1 south	AW	13/10/97		side	5			5	
EC	2	AW	13/10/97		nest	35			35	
EC	2-bwer	AW	13/10/97		view	5			5	
EC	3	BE	13/10/97		view	26			26	
EC	4	AW	13/10/97		nest	23			23	
EC	5a	BE	13/10/97		nest	63			63	
EC	5b-upper	AW	13/10/97		nest	31			31	
EC	5b-bwer	AW	13/10/97		nest	9			9	
EC	6a-upper	SH	13/10/97		nest	41			41	
EC	6a-bwer	SH	13/10/97		view	11			11	
EC	6b-upper	BE	13/10/97		nest	31			31	

Colony	Sector	Observer	Date	Time	Count	Campbell mollymawk																
						type	On Egg				On Empty Nest				On Nest				Extra			
							N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
EC	6b-bwer	SH	13/10/97		view	1										7			7	1		1
EC	6c	SH	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	7-upper	BE	13/10/97	1550	nest	1	14			14	4			4	18			18	6		6	
EC	7-bwer	AW	13/10/97		nest	1	37			37	6			6	43			43	18		18	
EC	8a	SH	13/10/97		view	1									31			31	12		12	
EC	8b	AW	13/10/97		view	1									15			15	7		7	
EC	8c	AW	13/10/97		nest	1	6			6	1			1	7			7	2		2	
EC	9	AW	13/10/97	1700	nest	1	0			0	0			0	0			0	0		0	
EC	9-bwer	SH	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	10-upper	AW	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	10-bwer	SH	13/10/97		nest	1	11			11	0			0	11			11	0		0	
EC	11-upper	AW	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	11-bwer	SH	13/10/97		view	1									21			21	5		5	
EC	12-top	BE	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	12	AW	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	13a	AW	13/10/97		side	1									65			65	19		19	
EC	13b/14 upper	BE	13/10/97	1630	nest	1	0			0	1			1	1			1	2		2	
EC	13b/14 mid	AW	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	13b/14 bwer	SH	13/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	15	AW SH BE	14/10/97		nest	1	1133			1133	199			199	1332			1332	176		176	
EC	15-bwer	AW	14/10/97		bno	2									216	206		211	28	33	31	
EC	16/17	SH	14/10/97		nest	1	20			20	6			6	26			26	3		3	
EC	18	SH	14/10/97		view	1									9			9	0		0	
EC	19	BE	14/10/97		nest	1	1			1	0			0	1			1	1		1	
EC	20-bwer	BE	14/10/97	1350	nest	1	8			8	4			4	12			12	3		3	
EC	20-upper	SH	14/10/97		nest	1	0			0	0			0	0			0	0		0	
EC	23a	AW SH	14/10/97		bno	4									79.5	85		82	23.5	21.5	23	
EC	23b	AW SH BE	14/10/97		bno	7									50	58	51	53	20	13	20	
EC	23c	AW BE	14/10/97		view	5									34.5	26.7		31	19	21.3	20	
EC	24	AW	14/10/97	1600	view	1									29			29	10		10	
SUM of all counts																		2245			421	
SUM of nest visit counts										1397				252				1649			271	
% of all birds on a nest																		84.2				
% of occupied nests containing an egg										84.7												
% of all birds on an egg										72.8												
Sum of ledge / site counts																		70			19	
Sum of views down																			180			60
Sum of bno views down																			346			71



Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
EC	6b-bwer	SH	13/10/97		view	8			8	
EC	6c	SH	13/10/97		nest	0			0	
EC	7-upper	BE	13/10/97	1550	nest	24			24	
EC	7-bwer	AW	13/10/97		nest	61			61	
EC	8a	SH	13/10/97		view	43			43	
EC	8b	AW	13/10/97		view	22			22	
EC	8c	AW	13/10/97		nest	9			9	
EC	9	AW	13/10/97	1700	nest	0			0	
EC	9-bwer	SH	13/10/97		nest	0			0	
EC	10-upper	AW	13/10/97		nest	0			0	
EC	10-bwer	SH	13/10/97		nest	11			11	
EC	11-upper	AW	13/10/97		nest	0			0	
EC	11-bwer	SH	13/10/97		view	26			26	
EC	12-top	BE	13/10/97		nest	0			0	
EC	12	AW	13/10/97		nest	0			0	
EC	13a	AW	13/10/97		side	84			84	
EC	13b/14	BE	13/10/97	1630	nest	3			3	
EC	13b/14	AW	13/10/97		nest	0			0	
EC	13b/14	SH	13/10/97		nest	0			0	
EC	15	AW ,SH ,	14/10/97		nest	1508			1508	
EC	15-bwer	AW	14/10/97		bino	244	239		242	
EC	16/17	SH	14/10/97		nest	29			29	
EC	18	SH	14/10/97		view	9			9	
EC	19	BE	14/10/97		nest	2			2	
EC	20-bwer	BE	14/10/97	1350	nest	15			15	
EC	20-upper	SH	14/10/97		nest	0			0	
EC	23a	AW /SH	14/10/97		bino	103	107		105	from south point
EC	23b	AW /SH /B	14/10/97		bino	70	71	71	71	
EC	23c	AW /BE	14/10/97		view	53.5	48		51	
EC	24	AW	14/10/97	1600	view	39			39	
SUM of all counts									2666	
SUM of nest visit counts									1920	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of ledge / site counts									89	
Sum of views down									240	
Sum of bino views down									417	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk															
						On Egg				On Empty Nest				On Nest				Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
HOOKERS FINGER COMBINED COLONIES CENSUS																					
HF	6a	BE	15/10/97		nest	1	61			61	3		3	64			64	3		3	
HF	6b	BE	15/10/97		nest	1	11			11	2		2	13			13	3		3	
HF	6c	BE	15/10/97		nest	1	267			267	33		33	300			300	14		14	
HF	5a	BE	15/10/97		nest	1	121			121	29		29	150			150	9		9	
HF	5b	SH	15/10/97		nest	1	76			76	13		13	89			89	5		5	
HF	5c	SH	15/10/97		nest	1	249			249	27		27	276			276	18		18	
HF	5c-top	SH	15/10/97		nest	1	1			1	0		0	1			1	0		0	
HF	5d	BE	15/10/97		nest	1	22			22	3		3	25			25	4		4	
HF	3a	AW	15/10/97		nest	1	17			17	6		6	23			23	0		0	
HF	3b	AW	15/10/97		nest	1	0			0	0		0	0			0	0		0	
HF	3c	AW	15/10/97		nest	1	0			0	0		0	0			0	0		0	
HF	3d	AW	15/10/97		nest	1	23			23	3		3	26			26	0		0	
HF	3e	AW	15/10/97		nest	1	0			0	0		0	0			0	0		0	
HF	3f	AW	15/10/97		nest	1	0			0	0		0	0			0	0		0	
HF	2a	SH	15/10/97		nest	1	16			16	2		2	18			18	2		2	
HF	2b	AW	15/10/97		nest	1	79			79	5		5	84			84	5		5	
HF	2c	SH	15/10/97		nest	1	2			2	1		1	3			3	1		1	
HF	2d	SH	15/10/97		nest	1	23			23	4		4	27			27	3		3	
HF	2e	AW	15/10/97		nest	1	10			10	1		1	11			11	1		1	
HF	2f	AW	15/10/97		nest	1	1			1	1		1	2			2	0		0	
HF	2g	AW	15/10/97		nest	1	17			17	2		2	19			19	1		1	
HF	2h	SH	15/10/97		nest	1	13			13	3		3	16			16	2		2	
HF	2i	BE	15/10/97		nest	1	34			34	7		7	41			41	8		8	
HF	2j	BE	15/10/97		nest	1	1			1	0		0	1			1	0		0	
HF	2k	BE	15/10/97		nest	1	0			0	0		0	0			0	0		0	
HF	2m	BE	15/10/97		nest	1	1			1	0		0	1			1	0		0	
HF	2n	AW	15/10/97		nest	1	0			0	0		0	0			0	0		0	
HF	2p	BE	15/10/97		nest	1	10			10	5		5	15			15	1		1	
SUM of all counts																	1205			80	
SUM of nest visit counts										1055			150					1205			80
% of all bids on a nest																	93.8				
% of occupied nests containing an egg										87.6											
% of all bids on an egg										82.1											

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
HOOKERS FINGER COMBINED COLONIES CENSUS										
HF	6a	BE	15/10/97		nest	67			67	
HF	6b	BE	15/10/97		nest	16			16	
HF	6c	BE	15/10/97		nest	314			314	
HF	5a	BE	15/10/97		nest	159			159	
HF	5b	SH	15/10/97		nest	94			94	
HF	5c	SH	15/10/97		nest	294			294	
HF	5c - top	SH	15/10/97		nest	1			1	
HF	5d	BE	15/10/97		nest	29			29	
HF	3a	AW	15/10/97		nest	23			23	
HF	3b	AW	15/10/97		nest	0			0	
HF	3c	AW	15/10/97		nest	0			0	
HF	3d	AW	15/10/97		nest	26			26	
HF	3e	AW	15/10/97		nest	0			0	
HF	3f	AW	15/10/97		nest	0			0	
HF	2a	SH	15/10/97		nest	20			20	
HF	2b	AW	15/10/97		nest	89			89	
HF	2c	SH	15/10/97		nest	4			4	
HF	2d	SH	15/10/97		nest	30			30	
HF	2e	AW	15/10/97		nest	12			12	
HF	2f	AW	15/10/97		nest	2			2	
HF	2g	AW	15/10/97		nest	20			20	
HF	2h	SH	15/10/97		nest	18			18	
HF	2i	BE	15/10/97		nest	49			49	
HF	2j	BE	15/10/97		nest	1			1	
HF	2k	BE	15/10/97		nest	0			0	
HF	2m	BE	15/10/97		nest	1			1	
HF	2n	AW	15/10/97		nest	0			0	
HF	2p	BE	15/10/97		nest	16			16	
SUM of all counts									1285	
SUM of nest visit counts									1285	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
HOOKERS FINGER COLONY 6 CENSUS																									
HF	6a	BE	15/10/97		nest	1	61			61	3			3	64			64	3		3				
HF	6b	BE	15/10/97		nest	1	11			11	2			2	13			13	3		3				
HF	6c	BE	15/10/97		nest	1	267			267	33			33	300			300	14		14				
SUM of all counts																		377			20				
SUM of nest visit counts										339				38				377			20				
% of all birds on a nest																		95.0							
% of occupied nests containing an egg										89.9															
% of all birds on an egg										85.4															
HOOKERS FINGER COLONY 5 CENSUS																									
HF	5a	BE	15/10/97		nest	1	121			121	29			29	150			150	9		9				
HF	5b	SH	15/10/97		nest	1	76			76	13			13	89			89	5		5				
HF	5c	SH	15/10/97		nest	1	249			249	27			27	276			276	18		18				
HF	5c-top	SH	15/10/97		nest	1	1			1	0			0	1			1	0		0				
HF	5d	BE	15/10/97		nest	1	22			22	3			3	25			25	4		4				
SUM of all counts										469				72				541			36				
SUM of nest visit counts										469				72				541			36				
% of all birds on a nest																		93.8							
% of occupied nests containing an egg										86.7															
% of all birds on an egg										81.3															
HOOKERS FINGER COLONY 3 CENSUS																									
HF	3a	AW	15/10/97		nest	1	17			17	6			6	23			23	0		0				
HF	3b	AW	15/10/97		nest	1	0			0	0			0	0			0	0		0				
HF	3c	AW	15/10/97		nest	1	0			0	0			0	0			0	0		0				
HF	3d	AW	15/10/97		nest	1	23			23	3			3	26			26	0		0				
HF	3e	AW	15/10/97		nest	1	0			0	0			0	0			0	0		0				
HF	3f	AW	15/10/97		nest	1	0			0	0			0	0			0	0		0				
SUM of all counts																		49			0				
SUM of nest visit counts										40				9				49			0				
% of all birds on a nest																		100.0							
% of occupied nests containing an egg										81.6															
% of all birds on an egg										81.6															

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HOOKERS FINGER COLONY 6 CENSUS										
HF	6a	BE	15/10/97		nest	67			67	
HF	6b	BE	15/10/97		nest	16			16	
HF	6c	BE	15/10/97		nest	314			314	
SUM of all counts									397	
SUM of nest visit counts									397	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 5 CENSUS										
HF	5a	BE	15/10/97		nest	159			159	
HF	5b	SH	15/10/97		nest	94			94	
HF	5c	SH	15/10/97		nest	294			294	
HF	5c - top	SH	15/10/97		nest	1			1	
HF	5d	BE	15/10/97		nest	29			29	
SUM of all counts									577	
SUM of nest visit counts									577	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 3 CENSUS										
HF	3a	AW	15/10/97		nest	23			23	
HF	3b	AW	15/10/97		nest	0			0	
HF	3c	AW	15/10/97		nest	0			0	
HF	3d	AW	15/10/97		nest	26			26	
HF	3e	AW	15/10/97		nest	0			0	
HF	3f	AW	15/10/97		nest	0			0	
SUM of all counts									49	
SUM of nest visit counts									49	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
HOOKERS FINGER COLONY 2 CENSUS																									
HF	2a	SH	15/10/97		nest	1	16			16	2			2	18			18	2		2				
HF	2b	AW	15/10/97		nest	1	79			79	5			5	84			84	5		5				
HF	2c	SH	15/10/97		nest	1	2			2	1			1	3			3	1		1				
HF	2d	SH	15/10/97		nest	1	23			23	4			4	27			27	3		3				
HF	2e	AW	15/10/97		nest	1	10			10	1			1	11			11	1		1				
HF	2f	AW	15/10/97		nest	1	1			1	1			1	2			2	0		0				
HF	2g	AW	15/10/97		nest	1	17			17	2			2	19			19	1		1				
HF	2h	SH	15/10/97		nest	1	13			13	3			3	16			16	2		2				
HF	2i	BE	15/10/97		nest	1	34			34	7			7	41			41	8		8				
HF	2j	BE	15/10/97		nest	1	1			1	0			0	1			1	0		0				
HF	2k	BE	15/10/97		nest	1	0			0	0			0	0			0	0		0				
HF	2m	BE	15/10/97		nest	1	1			1	0			0	1			1	0		0				
HF	2n	AW	15/10/97		nest	1	0			0	0			0	0			0	0		0				
HF	2p	BE	15/10/97		nest	1	10			10	5			5	15			15	1		1				
SUM of all counts																		238			24				
SUM of nest visit counts										207				31				238			24				
% of all bids on a nest																		90.8							
% of occupied nests containing an egg										87.0															
% of all bids on an egg										79.0															
COURREJOLLES ISTHMUS CENSUS																									
C1	1a	SH	15/10/97		nest	1	0			0	0			0	0			0	0		0				
C1	1b	AW	15/10/97	1630	nest	1	0			0	0			0	0			0	0		0				
C1	1c	AW	15/10/97		nest	1	2			2	0			0	2			2	0		0				
C1	1d	SH	15/10/97		nest	1	1			1	0			0	1			1	0		0				
C1	1e	SH	15/10/97		nest	1	7			7	1			1	8			8	0		0				
C1	1f	AW	15/10/97		nest	1	36			36	11			11	47			47	4		4				
C1	JDK	AW SH	15/10/97		nest	1	22			22	9			9	31			31	3		3				
SUM of all counts																		89			7				
SUM of nest visit counts										68				21				89			7				
% of all bids on a nest																		92.7							
% of occupied nests containing an egg										76.4															
% of all bids on an egg										70.8															

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				comments
						1st	2nd	3rd	mean	
HOOKERS FINGER COLONY 2 CENSUS										
HF	2a	SH	15/10/97		nest	20			20	
HF	2b	AW	15/10/97		nest	89			89	
HF	2c	SH	15/10/97		nest	4			4	
HF	2d	SH	15/10/97		nest	30			30	
HF	2e	AW	15/10/97		nest	12			12	
HF	2f	AW	15/10/97		nest	2			2	
HF	2g	AW	15/10/97		nest	20			20	
HF	2h	SH	15/10/97		nest	18			18	
HF	2i	BE	15/10/97		nest	49			49	
HF	2j	BE	15/10/97		nest	1			1	
HF	2k	BE	15/10/97		nest	0			0	
HF	2m	BE	15/10/97		nest	1			1	
HF	2n	AW	15/10/97		nest	0			0	
HF	2p	BE	15/10/97		nest	16			16	
SUM of all counts									262	
SUM of nest visit counts									262	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
COURREJOLLES ISTHMUS CENSUS										
C1	1a	SH	15/10/97		nest	0			0	
C1	1b	AW	15/10/97	1630	nest	0			0	
C1	1c	AW	15/10/97		nest	2			2	
C1	1d	SH	15/10/97		nest	1			1	
C1	1e	SH	15/10/97		nest	8			8	
C1	1f	AW	15/10/97		nest	51			51	
C1	JDK	AW SH	15/10/97		nest	34			34	
SUM of all counts									96	
SUM of nest visit counts									96	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																	
						On Egg				On Empty Nest				On Nest				Extra					
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
ISLE DE JEANETTE MARIE TELESCOPE COUNT																							
IDJ	vantage 1	AW	19/10/97	1515	tele	3																	
IDJ	vantage 1	SH	19/10/97	1515	tele	2																	
IDJ	vantage 2	AW	19/10/97	1515	tele	1																	
IDJ	vantage 2	SH	19/10/97	1515	tele	1																	
Mean count from vantage 2																							
Campbell Mollymawk Summary Oct. 1997																							
Eastern cobnies			SUM of all counts																			2245	421
BullRock South			SUM of all counts																			8023	1146
BullRock North			SUM of all counts																			2701	393
Hookers Peninsula			SUM of all counts																			406	64
Hookers Finger			SUM of all counts																			1205	80
Courneyles Isthmus			SUM of all counts																			89	7
Isle de Jeanette Marie			telescope count of total bids minus estimated extras																			136	17
Courneyles Peninsula			Photo estimate of total bids minus grey-head telescope count, minus estimated extras																			9766	1230
Total																						24570	3358
Eastern cobnies			SUM of nest visit counts			1397				252				1649				271					
BullRock South			SUM of nest visit counts			5674				953				6627				860					
BullRock North			SUM of nest visit counts			1044				229				1273				142					
Hookers Peninsula			SUM of nest visit counts			308				44				352				51					
Hookers Finger			SUM of nest visit counts			1055				150				1205				80					
Courneyles Isthmus			SUM of nest visit counts			68				21				89				7					
Total						9545				1649				11195				1410					
			% of all bids on a nest																			88.8	
			% of occupied nests containing an egg																			85.3	
			% of all bids on an egg																			75.7	
Eastern cobnies			Sum of ledge/side counts																			70	19
BullRock South			Sum of ledge counts																			856	127
Eastern cobnies			Sum of view down																			180	60
Hookers Peninsula			Sum of view down																			54	14
Eastern cobnies			Sum of bino down																			346	71
BullRock South			Sum of bino down																			540	160



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
ISLE DE JEANETTE MARIE TELESCOPE COUNT										
IDJ	vantage 1	AW	19/10/97	1515	tele	127	112	113	117	25 X magnification
IDJ	vantage 1	SH	19/10/97	1515	tele	120	123		122	25 X magnification
IDJ	vantage 2	AW	19/10/97	1515	tele	146			146	60 X magnification
IDJ	vantage 2	SH	19/10/97	1515	tele	160			160	60 X magnification
										counted from tam north of M tAzimuth
Mean count from vantage 2									153	
Cam pbell M o l y m a w k S u m m a r y O c t . 1 9 9 7										
Eastern cobnies			SUM of all counts							2666
BullRock South			SUM of all counts							9169
BullRock North			SUM of all counts							3094
Hookers Peninsula			SUM of all counts							469
Hookers Finger			SUM of all counts							1285
Counre ples Isthm us			SUM of all counts							96
Isle de Jeanette Marie			telescope count of total birds							153
Counre ples Peninsula			Photo estimate of total birds							10996
minus grey-head telescope count										
Total									27927	
Eastern cobnies SUM of nest visit counts										
BullRock South SUM of nest visit counts										
BullRock North SUM of nest visit counts										
Hookers Peninsula SUM of nest visit counts										
Hookers Finger SUM of nest visit counts										
Counre ples Isthm us SUM of nest visit counts										
Total									12605	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Eastern cobnies Sum of ledge/side counts										
BullRock South Sum of ledge counts										
Eastern cobnies Sum of view down										
Hookers Peninsula Sum of view down										
Eastern cobnies Sum of bno down										
BullRock South Sum of bno down										

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk																					
						On Egg					On Empty Nest					On Nest					Extra						
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean					
Hookers Peninsula			Sum of bino down																		0						0
Bull Rock North			Sum of bino view across																		1428						251
Sum of nest visits																					11195						1410
Sum of edge counts																					926						146
Sum of view down																					234						74
Sum of bino down																					886						230
Sum of bino across																					1428						251
Sum of telescope counts																					9902						1247
Total																					24570						3358
% of all birds on a nest																					88.0						
<b>BULL ROCK SOUTH REPEAT COUNTS</b>																											
BRS	Square, a & b	AW /BE /SH	08/10/97		nest	1	157			157	21			21	178			178	30		30						
BRS	Square, a & b	SH	29/10/97		nest	1	153			153	21			21	174			174	15		15						
BRS	c	SH	08/10/97		nest	1	98			98	20			20	118			118	32		32						
BRS	c	SH	29/10/97		nest	1	100			100	22			22	122			122	22		22						
BRS	d	BE	08/10/97		nest	1	58			58	24			24	82			82	23		23						
BRS	d	BE	29/10/97		nest	1	58			58	16			16	74			74	17		17						
BRS	11	SH	09/10/97		nest	1	217			217	27			27	244			244	60		60						
BRS	11	BE	29/10/97		nest	1	210			210	27			27	237			237	17		17						
BRS	12	BE	08/10/97		nest	1	225			225	40			40	265			265	19		19						
BRS	12	SH/BE	29/10/97		nest	2		222	219	220.5		34	47	40.5		256	266	261		13	9	11					
BRS	14	SH	09/10/97		nest	1	167			167	34			34	201			201	20		20						
BRS	14	AW	29/10/97		nest	1	170			170	36			36	206			206	23		23						
BRS	22	SH	08/10/97		nest	1	287			287	65			65	352			352	30		30						
BRS	22	SH/BE	29/10/97		nest	1	269			269	75			75	344			344	38		38						
<b>BULL ROCK NORTH REPEAT COUNTS</b>																											
BRN	12	SH/AW	11/10/97		nest	1	389			389	81			81	470			470	49		49						
BRN	12	BE/AW	30/10/97		nest	1	374			374	82			82	456			456	47		47						
BRN	13	BE	11/10/97		nest	1	253			253	77			77	330			330	37		37						

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments	
						1st	2nd	3rd	mean		
Hookers Peninsula			Sum of bino down							0	
BullRock North			Sum of bino view across							1679	
Sum of nest visits										12605	
Sum of ledge counts										1072	
Sum of view down										306	
Sum of bino down										1116	
Sum of bino across										1679	
Sum of telescope counts										11149	
Total										27927	
% of all birds on a nest											
<b>BULL ROCK SOUTH REPEAT COUNTS</b>											
BRS	Square, a & b	AW / BE / SH	08/10/97		nest	208				208	
BRS	Square, a & b	SH	29/10/97		nest	189				189	
BRS	c	SH	08/10/97		nest	150				150	
BRS	c	SH	29/10/97		nest	144				144	
BRS	d	BE	08/10/97		nest	105				105	
BRS	d	BE	29/10/97		nest	91				91	
BRS	11	SH	09/10/97		nest	304				304	
BRS	11	BE	29/10/97		nest	254				254	
BRS	12	BE	08/10/97		nest	284				284	
BRS	12	SH/BE	29/10/97		nest		269	275		272	
BRS	14	SH	09/10/97		nest	221				221	
BRS	14	AW	29/10/97		nest	229				229	
BRS	22	SH	08/10/97		nest	382				382	
BRS	22	SH/BE	29/10/97		nest	382				382	
<b>BULL ROCK NORTH REPEAT COUNTS</b>											
BRN	12	SH/AW	11/10/97		nest	519				519	
BRN	12	BE/AW	30/10/97		nest	503				503	
BRN	13	BE	11/10/97		nest	367				367	

Colony	Sector	Observer	Date	Time	Count type	Campbell molly hawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BRN	13	BE	30/10/97	1220	nest	1	238			238	49			49	287			287	19			19			
BRN	13	AW /SH	30/10/97		nest	2	264	262		263	47	52		49.5	311	314		313	35	32		34			
BRN	13a	AW	10/10/97		nest	1	61			61	7			7	68			68	15			15			
BRN	13a	AW	30/10/97		nest	1	56			56	9			9	65			65	9			9			
BRN	14	BE/AW /SH	11/10/97		nest	3	59	58	57	58	13	11	13	12	72	69	70	70	8	17	19	15			
BRN	14	SH	30/10/97		nest	1	53			53	11			11	64			64	11			11			
BRN	15	SH	10/10/97		nest	1	24			24	6			6	30			30	3			3			
BRN	15	SH	30/10/97		nest	1	25			25	3			3	28			28	3			3			
HOOKERS FINGER REPEAT COUNTS																									
HF	5d	BE	15/10/97		nest	1	22			22	3			3	25			25	4			4			
HF	5d	SH	31/10/97		nest	1	27			27	5			5	32			32	1			1			
HF	5c top	SH	15/10/97		nest	1	1			1	0			0	1			1	0			0			
HF	5c top	SH	31/10/97		nest	1	1			1	0			0	1			1	0			0			
HF	5c	SH	15/10/97		nest	1	249			249	27			27	276			276	18			18			
HF	5c	SH	31/10/97		nest	1	231			231	51			51	282			282	23			23			
					nest																				
HF	3a	AW	15/10/97		nest	1	17			17	6			6	23			23	0			0			
HF	3a	AW	31/10/97		nest	1	18			18	3			3	21			21	6			6			
					nest																				
HF	2b	AW	15/10/97		nest	1	79			79	5			5	84			84	5			5			
HF	2b	AW /SH	31/10/97		nest	2	73	72		72.5	4	5		4.5	77	77		77	4	8		6			
HF	2h	SH	15/10/97		nest	1	13			13	3			3	16			16	2			2			
HF	2h	BE	31/10/97		nest	1	17			17	5			5	22			22	3			3			
HF	2:	BE	15/10/97		nest	1	34			34	7			7	41			41	8			8			
HF	2:	BE	31/10/97		nest	1	32			32	9			9	41			41	9			9			
COURREJOLLES ISTHMUS REPEAT COUNTS																									
C1	1d	SH	15/10/97		nest	1	1			1	0			0	1			1	0			0			
C1	1d	SH	31/10/97		nest	1	1			1	0			0	1			1	0			0			
C1	1f	AW	15/10/97		nest	1	36			36	11			11	47			47	4			4			
C1	1f	BE	31/10/97		nest	1	41			41	11			11	52			52	10			10			
C1	JDK	AW /SH	15/10/97		nest	1	22			22	9			9	31			31	3			3			
C1	JDK	AW	31/10/97	1540	nest	1	20			20	6			6	26			26	3			3			

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				Comments
						1st	2nd	3rd	mean	
BRN	13	BE	30/10/97	1220	nest	306			306	
BRN	13	AW /SH	30/10/97		nest	346	346		346	
BRN	13a	AW	10/10/97		nest	83			83	
BRN	13a	AW	30/10/97		nest	74			74	
BRN	14	BE /AW /S	11/10/97		nest	80	86	89	85	
BRN	14	SH	30/10/97		nest	75			75	
BRN	15	SH	10/10/97		nest	33			33	
BRN	15	SH	30/10/97		nest	31			31	
HOOKERS FINGER REPEAT COUNTS										
HF	5d	BE	15/10/97		nest	29			29	
HF	5d	SH	31/10/97		nest	33			33	
HF	5c top	SH	15/10/97		nest	1			1	
HF	5c top	SH	31/10/97		nest	1			1	
HF	5c	SH	15/10/97		nest	294			294	
HF	5c	SH	31/10/97		nest	305			305	
					nest					
HF	3a	AW	15/10/97		nest	23			23	
HF	3a	AW	31/10/97		nest	27			27	
					nest					
HF	2b	AW	15/10/97		nest	89			89	
HF	2b	AW /SH	31/10/97		nest	81	85		83	
HF	2h	SH	15/10/97		nest	18			18	
HF	2h	BE	31/10/97		nest	25			25	
HF	2:	BE	15/10/97		nest	49			49	
HF	2:	BE	31/10/97		nest	50			50	
COURREJOLLES ISTHMUS REPEAT COUNTS										
C1	1d	SH	15/10/97		nest	1			1	
C1	1d	SH	31/10/97		nest	1			1	
C1	1f	AW	15/10/97		nest	51			51	
C1	1f	BE	31/10/97		nest	62			62	
C1	JDK	AW /SH	15/10/97		nest	34			34	
C1	JDK	AW	31/10/97	1540	nest	29			29	



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
REPLICATE NEST VISIT COUNTS										
BRN	6	AW	11/10/97		nest	100			100	
BRN	6	SH	11/10/97		nest	104			104	
BRN	6	BE	11/10/97		nest	103			103	
BRN	6	AW /SH/B E	11/10/97		nest	100	104	103	102.3	
BRN	6	AW /SH	11/10/97		nest	100	104	2.1	102.0	
							2.8	2.8		
BRS	12	AW	29/10/97	1045	nest	301			301	red already used, confused counter
BRS	12	SH	29/10/97	1145	nest	269			269	
BRS	12	BE	29/10/97	1300	nest	275			275	
BRS	12	AW /SH/B E	29/10/97		nest	301	269	275	281.7	
							17.0	6.0		
BRS	12	AW /SH	29/10/97		nest	301	269		285.0	
							22.6	7.9		
BRS	12	SH/BE	29/10/97		nest		269	275	272.0	
							4.2	1.6		
BRN	13	SH	30/10/97	1320	nest	346			346	
BRN	13	AW	30/10/97	1510	nest	346			346	
BRN	13	BE	30/10/97	1220	nest	306			306	
BRN	13	AW /SH/B E	30/10/97		nest	346	346	306	332.7	
							23.1	6.9		
BRN	13	AW /SH	30/10/97		nest	346	346		346.0	
							0.0	0.0		
BRN	14	AW	10/10/97		nest	86			86	
BRN	14	SH	10/10/97		nest	89			89	
BRN	14	BE	11/10/97		nest	80			80	
BRN	14	AW /SH/B E	10/10/97		nest	86	89	80	85.0	
							4.6	5.4		
BRN	14	AW /SH	10/10/97		nest	86	89		87.5	
							2.1	2.4		

Colony	Sector	Observer	Date	Time	Count type	Campbellmollymawk																		
						On Egg					On Empty Nest					On Nest					Extra			
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean		
HF	2b	AW	31/10/97	1330	nest	1	73			73	4			4	77			77	4			4		
HF	2b	SH	31/10/97	1305	nest	1	72			72	5			5	77			77	8			8		
HF	2b	BE	31/10/97	1130	nest	1	68			68	9			9	77			77	11			11		
HF	2b	AW /SH /BE	31/10/97		nest	3	73	72	68	71.0	4	5	9	6.0	77	77	77	77.0	4	8	11	7.7		
					sd	CV	2.6	3.7				2.6	44.1			0.0	0.0			3.5	45.8			
HF	2b	AW /SH	31/10/97		nest	2	73	72		72.5	4	5		4.5	77	77		77.0	4	8		6.0		
					sd	CV	0.7	1.0				0.7	15.7			0.0	0.0			2.8	47.1			
HP	3c	AW	12/10/97	1500	nest	1	36			36	7			7	43			43	9			9		
HP	3c	SH	12/10/97		nest	1	36			36	5			5	41			41	9			9		
HP	3c	BE	12/10/97		nest	1	35			35	7			7	42			42	8			8		
HF	3c	AW /SH /BE	12/10/97		nest	3	36	36	35	35.7	7	5	7	6.3	43	41	42	42.0	9	9	8	8.7		
					sd	CV	0.6	1.6				1.2	18.2			1.0	2.4			0.6	6.7			
HF	3c	AW /SH	12/10/97		nest	2	36	36		36.0	7	5		6.0	43	41		42.0	9	9		9.0		
					sd	CV	0.0	0.0				1.4	23.6			1.4	3.4			0.0	0.0			
REPLICATE LEDGE COUNTS																								
BRS	1a	SH	09/10/97		ledge	3									22	23	22	22.3	7	7	7	7.0		
					sd	CV										0.6	2.6			0.0	0.0			
REPLICATE BNO ACROSS OR DOWN COUNTS																								
BRS	10	SH	09/10/97		bno	3									167	164	163	164.7	47	51	48	48.7		
					sd	CV										2.1	1.3			2.1	4.3			
BRN	1c	SH	10/10/97		bno	3									25	25	25	25.0	1	1	2	1.3		
					sd	CV										0.0	0.0			0.6	43.3			
BRN	2	AW	10/10/97		bno	3									52	53	54	53.0	4	7	8	6.3		
					sd	CV										1.0	1.9			2.1	32.9			
BRN	3	AW	10/10/97		bno	2									170	167		168.5	41	35		38.0		
					sd	CV										2.1	1.3			4.2	11.2			
BRN	4	AW	10/10/97		bno	2									209	216		212.5	27	25		26.0		
					sd	CV										4.9	2.3			1.4	5.4			
BRN	5	AW	10/10/97		bno	3									206	225	223	218.0	30	27	34	30.3		
					sd	CV										10.4	4.8			3.5	11.6			



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HF	2b	AW	31/10/97	1330	nest	81			81	
HF	2b	SH	31/10/97	1305	nest	85			85	
HF	2b	BE	31/10/97	1130	nest	88			88	
HF	2b	AW /SH /B E	31/10/97		nest	81	85	88	84.7	
							3.5	4.1		
HF	2b	AW /SH	31/10/97		nest	81	85		83.0	
							2.8	3.4		
HP	3c	AW	12/10/97	1500	nest	52			52	
HP	3c	SH	12/10/97		nest	50			50	
HP	3c	BE	12/10/97		nest	50			50	
HF	3c	AW /SH /B E	12/10/97		nest	52	50	50	50.7	
							1.2	2.3		
HF	3c	AW /SH	12/10/97		nest	52	50		51.0	
							1.4	2.8		
REPLICATE LEDGE COUNTS										
BRS	1a	SH	09/10/97		ledge	29	30	29	29.3	
							0.6	2.0		
REPLICATE BNO ACROSS OR DOWN COUNTS										
BRS	10	SH	09/10/97		bin	214	215	211	213.3	
							2.1	1.0		
BRN	1c	SH	10/10/97		bin	26	26	27	26.3	
							0.6	2.2		
BRN	2	AW	10/10/97		bin	56	60	62	59.3	
							3.1	5.1		
BRN	3	AW	10/10/97		bin	211	202		206.5	
							6.4	3.1		
BRN	4	AW	10/10/97		bin	236	241		238.5	
							3.5	1.5		
BRN	5	AW	10/10/97		bin	236	252	257	248.3	
							11.0	4.4		

Colony	Sector	Observer	Date	Time	Count	Campbell mollymawk																
						type	On Egg				On Empty Nest				On Nest				Extra			
							N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
BRN	5a	AW	10/10/97		bno	2									57	57		57.0	5	10		7.5
					sd	CV										0.0	0.0			3.5	47.1	
BRN	6	AW	10/10/97		bno	3									75	83	80	79.3	5	7	10	7.3
					sd	CV										4.0	5.1			2.5	34.3	
BRN	6	SH	10/10/97		bno	3									87	85	86	86.0	5	4	9	6.0
					sd	CV										1.0	1.2			2.6	44.1	
		AW /SH	10/10/97		bno	6										4.5	5.4	82.7		2.4	36.3	6.7
BRN	7	SH	10/10/97		bno	3									200	191	188	193.0	31	32	38	33.7
					sd	CV										6.2	3.2			3.8	11.2	
BRN	8	SH	10/10/97		bno	3									138	129	142	136.3	47	47	41	45.0
					sd	CV										6.7	4.9			3.5	7.7	
BRN	9	SH	10/10/97		bno	3									40	40	40	40.0	1	1	1	1.0
					sd	CV										0.0	0.0			0.0	0.0	
BRN	10a	AW	10/10/97		bno	3									71	73	79	74.3	10	11	11	10.7
					sd	CV										4.2	5.6			0.6	5.4	
BRN	10b	SH	10/10/97		bno	3									42	44	43	43.0	2	5	6	4.3
					sd	CV										1.0	2.3			2.1	48.0	
BRN	15	AW	10/10/97		bno	3									36	32	33	33.7	0	1	0	0.3
					sd	CV										2.1	6.2					
BRN	15	SH	10/10/97		bno	3									37	36	36	36.3	1	1	1	1.0
					sd	CV										0.6	1.6			0.0	0.0	
		AW /SH	10/10/97		bno	6										2.0	5.7	35.0		0.5	77.5	0.7
BRN	18	AW	10/10/97		bno	3									29	29	30	29.3	6	10	8	8.0
					sd	CV										0.6	2.0			2.0	25.0	
EC	15-bwer	AW	14/10/97		bno	2									216	206		211.0	28	33		30.5
					sd	CV										7.1	3.4			3.5	11.6	
EC	23a	AW	14/10/97		bno	2									75	84		79.5	25	22		23.5
					sd	CV										6.4	8.0			2.1	9.0	
EC	23a	SH	14/10/97		bno	2									85	85		85.0	25	18		21.5
					sd	CV										0.0	0.0			4.9	23.0	
		AW /SH	14/10/97		bno	4										4.9	5.9	82.3		3.3	14.7	22.5
EC	23b	BE	14/10/97		bno	3									47	51	55	51.0	21	21	17	19.7
					sd	CV										4.0	7.8			2.3	11.7	
EC	23b	SH	14/10/97		bno	3									54	59	61	58.0	19	11	10	13.3
					sd	CV										3.6	6.2			4.9	37.0	
EC	23b	AW	14/10/97		bno	1									50			50.0	20			20.0
		BE /SH /AW	14/10/97		bno	7.0										5.0	9.2	53.9		4.7	27.4	17.0

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				comments
						1st	2nd	3rd	mean	
BRN	5a	AW	10/10/97		bino	62	67		64.5	
							3.5	5.5		
BRN	6	AW	10/10/97		bino	80	90	90	86.7	
							5.8	6.7		
BRN	6	SH	10/10/97		bino	92	89	95	92.0	
							3.0	3.3		
		AW /SH	10/10/97		bino		5.0	5.6	89.3	
BRN	7	SH	10/10/97		bino	231	223	226	226.7	
							4.0	1.8		
BRN	8	SH	10/10/97		bino	185	176	183	181.3	
							4.7	2.6		
BRN	9	SH	10/10/97		bino	41	41	41	41.0	
							0.0	0.0		
BRN	10a	AW	10/10/97		bino	81	84	90	85.0	
							4.6	5.4		
BRN	10b	SH	10/10/97		bino	44	49	49	47.3	
							2.9	6.1		
BRN	15	AW	10/10/97		bino	36	33		34.5	
							2.1	6.1		
BRN	15	SH	10/10/97		bino	38	37	37	37.3	
							0.6	1.5		
		AW /SH	10/10/97		bino		1.9	5.3	36.2	
BRN	18	AW	10/10/97		bino	35	39	38	37.3	
							2.1	5.6		
EC	15-bwer	AW	14/10/97		bino	244	239		241.5	
							3.5	1.5		
EC	23a	AW	14/10/97		bino	100	106		103.0	from south point
							4.2	4.1		
EC	23a	SH	14/10/97		bino	110	103		106.5	from south point
							4.9	4.6		
		AW /SH	14/10/97		bino		4.3	4.1	104.8	
EC	23b	BE	14/10/97		bino	68	72	72	70.7	
							2.3	3.3		
EC	23b	SH	14/10/97		bino	73	70	71	71.3	
							1.5	2.1		
EC	23b	AW	14/10/97		bino	70			70.0	
		BE /SH /A W	14/10/97		bino		1.7	2.4	70.9	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk				mean	On Empty Nest				mean	On Nest				Extra							
						N	On Egg				1st	2nd	3rd	mean		1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
							1st	2nd	3rd																		
REPLICATE VIEW DOWN COUNTS																											
HP	2b	BE	12/10/97		view	2									51	54		52.5	14	16		15.0					
					sd	CV										2.1	4.0			1.4	9.4						
HP	2b	SH	12/10/97		view	2									58	54		56.0	11	13		12.0					
					sd	CV										2.8	5.1			1.4	11.8						
		BE/SH	12/10/97		view	4										2.9	5.3			2.1	15.4						
EC	23c	AW	14/10/97		view	2									38	31		34.5	14	24		19.0					
					sd	CV										4.9	14.3			7.1	37.2						
EC	23c	BE	14/10/97		view	3									27	26	27	26.7	22	21	21	21.3					
					sd	CV										0.6	2.2			0.6	2.7						
		AW/BE	14/10/97		view	5										5.0	16.7			3.8	18.5						
REPLICATE TELESCOPE COUNTS																											
DJ		AW	19/10/97	1515	tele	3																					
					sd	CV																					
DJ		SH	19/10/97	1515	tele	2																					
					sd	CV																					
DJ		AW/SH	14/10/97		tele	5																					
DJ		AW	19/10/97	1515	tele	1																					
DJ		SH	19/10/97	1515	tele	1																					
					sd	CV																					
METHOD COMPARISONS																											
BRN	15	AW	10/10/97		bno	3									36	32	33	33.7	0	1	0	0.3					
BRN	15	SH	10/10/97		bno	3									37	36	36	36.3	1	1	1	1.0					
BRN	15	AW/SH	10/10/97		bno	6												35.0				0.7					
BRN	15	SH	10/10/97		ledge	1									32			32.0	6			6.0					
BRN	15	SH	10/10/97		nest	1	24		24	6		6		30			30.0	3				3.0					
	% difference	bno/															16.7					-77.8					
	% difference	ledge/															6.7					100					
BRN	15	SH	30/10/97		ledge	1									29			29.0	4			4.0					
BRN	15	SH	30/10/97		nest	1	25		25	3		3		28			28.0	3				3.0					
	% difference																3.6					33.3					
BRN	6	AW	10/10/97		bno	3									75	83	80	79.3	5	7	10	7.3					

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
REPLICATE VIEW DOWN COUNTS										
HP	2b	BE	12/10/97		view	65	70		67.5	
							3.5	5.2		
HP	2b	SH	12/10/97		view	69	67		68.0	
							1.4	2.1		
		BE/SH	12/10/97		view		2.2	3.3	67.8	
EC	23c	AW	14/10/97		view	52	55		53.5	
							2.1	4.0		
EC	23c	BE	14/10/97		view	49	47	48	48.0	
							1.0	2.1		
		AW/BE	14/10/97		view		3.3	6.5	50.2	
REPLICATE TELESCOPE COUNTS										
DJ		AW	19/10/97	1515	tele	127	112	113	117.3	25 X magnification
							8.4	7.1		
DJ		SH	19/10/97	1515	tele	120	123		121.5	25 X magnification
							2.1	1.7		
DJ		AW/SH	14/10/97		tele		6.44	5.41	119.0	
DJ		AW	19/10/97	1515	tele	146			146.0	60 X magnification
DJ		SH	19/10/97	1515	tele	160			160.0	60 X magnification
							9.9	6.5	153.0	
METHOD COMPARISONS										
BRN	15	AW	10/10/97		bingo	36	33		34.5	
BRN	15	SH	10/10/97		bingo	38	37	37	37.3	
BRN	15	AW/SH	10/10/97		bingo				36.2	
BRN	15	SH	10/10/97		ledge	38			38.0	
BRN	15	SH	10/10/97		nest	33			33.0	
	%	bingo/						9.7		
	%	ledge/						15.2		
BRN	15	SH	30/10/97		ledge	33			33.0	
BRN	15	SH	30/10/97		nest	31			31.0	
	%							6.5		
BRN	6	AW	10/10/97		bingo	80	90	90	86.7	

Colony	Sector	Observer	Date	Time	Count type	Campbell mollymawk				On Empty Nest				On Nest				Extra							
						N	On Egg			1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
							1st	2nd	3rd																
BRN	6	SH	10/10/97		bno	3								87	85	86	86.0	5	4	9	6.0				
BRN	6	AW /SH	10/10/97		bno	6											82.7				6.7				
BRN	6	AW /SH	11/10/97		nest	2	85	86		85.5	10	12		11.0	95	98		96.5	5	6		5.5			
	% difference																-14.3				21.2				
HP	1b	AW	12/10/97		bno	1								30			30.0	2			2.0				
HP	1b	SH	12/10/97		nest	1	34			34	3			3	37		37.0	8			8.0				
	% difference																-18.9				-75.0				
HP	1c	AW	12/10/97		bno	1								199			199.0	12			12.0				
HP	1c	BE	12/10/97		nest/side	1	199			199	27			27	226		226.0	30			30.0				
	% difference																-11.9				-60.0				

Colony	Sector	Observer	Date	Time	Count type	Totalbirds				comments
						1st	2nd	3rd	mean	
BRN	6	SH	10/10/97		binocular	92	89	95	92.0	
BRN	6	AW /SH	10/10/97		binocular				89.3	
BRN	6	AW /SH	11/10/97		nest	100	104		102.0	
	%							-12.4		
HP	1b	AW	12/10/97		binocular	32			32.0	
HP	1b	SH	12/10/97		nest	45			45.0	
	%							-28.9		
HP	1c	AW	12/10/97		binocular	211			211.0	
HP	1c	BE	12/10/97		nest/side	256			256.0	80 nests side view
	%							-17.6		

# Part 6 Grey-headed mollymawk counts October 1997

Counts conducted by Alan Wiltshire, Sheryl Hamilton and Brent Evans



Grey-headed Mollmawk Counts October 1997																										
Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollmawk																				
						On Egg				On Empty Nest				On Nest				Extra								
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean				
BULL ROCK SOUTH CENSUS																										
BRS	Square, a & b	AW /BE /SH	08/10/97		nest	1	0			0	0			0	0			0	0			0				
BRS	c	AH	08/10/97		nest	1	3			3	1			1	4			4	0			0				
BRS	d	BE	08/10/97		nest	1	0			0	0			0	0			0	0			0				
BRS	bb.tce	AW	08/10/97		nest	1	11			11	6			6	17			17	3			3				
BRS	1	BE	08/10/97		nest	1	1			1	0			0	1			1	0			0				
BRS	1a	SH	09/10/97		ledge	1								0				0								
BRS	2	BE	08/10/97		nest	1	15			15	14			14	29			29	5			5				
BRS	3	BE	08/10/97		nest	1	50			50	33			33	83			83	18			18				
BRS	4	AW	09/10/97		ledge	1								23			23	2				2				
BRS	5a	SH	09/10/97		nest	1	38			38	9			9	47			47	11			11				
BRS	5b	BE	09/10/97		ledge	1								6			6	1				1				
BRS	6	AW	09/10/97		bno	1								8			8	4				4				
BRS	7	AW	09/10/97		bno	1								5			5	0				0				
BRS	9	BE	08/10/97		nest	1	0			0	0			0	0			0	0			0				
BRS	10	SH	09/10/97		bno	3								9	9	9	9	4	4	4	4	4				
BRS	11	SH	09/10/97		nest	1	1			1	0			0	1			1	0			0				
BRS	12	BE	08/10/97		nest	1	0			0	0			0	0			0	0			0				
BRS	13	SH	09/10/97		nest	1	1			1	1			1	2			2	1			1				
BRS	14	SH	09/10/97		nest	1	2			2	3			3	5			5	1			1				
BRS	15	BE	08/10/97		nest	1	0			0	0			0	0			0	0			0				
BRS	16	AW	08/10/97		nest	1	0			0	0			0	0			0	0			0				
BRS	17	AW	09/10/97		nest	1	9			9	3			3	12			12	1			1				
BRS	18	BE	09/10/97		ledge	1								0			0	0				0				
BRS	19	BE	08/10/97		nest	1	11			11	5			5	16			16	0			0				
BRS	20	AW	09/10/97		bno	1								20			20	5				5				
BRS	21a	BE	09/10/97		nest	1	0			0	1			1	1			1	0			0				
BRS	21b	BE	09/10/97		nest	1	35			35	6			6	41			41	15			15				
BRS	22	SH	08/10/97		nest	1	51			51	19			19	70			70	8			8				
BRS	SorTam	BE	08/10/97		side	1								0			0	0				0				
SUM of all counts																	400				79					
SUM of nest visit counts																	228				101				63	
% of all birds on a nest																	83.5									
% of occupied nests containing an egg																	69.3									
% of all birds on an egg																	58.2									
Sum of ledge / side counts																	29				3					
Sum of bno view down																	42				13					

Grey-headed Mollymawk Counts October 1997										
Colony	Sector	Observer	Date	Time	Count type	Total birds			Comments	
						1st	2nd	3rd	mean	
<b>BULL ROCK SOUTH CENSUS</b>										
BRS	Square, a & b	AW /BE /SH	08/10/97		nest	0			0	
BRS	c	AH	08/10/97		nest	4			4	
BRS	d	BE	08/10/97		nest	0			0	
BRS	bb.tce	AW	08/10/97		nest	20			20	
BRS	1	BE	08/10/97		nest	1			1	
BRS	1a	SH	09/10/97		ledge	0			0	
BRS	2	BE	08/10/97		nest	34			34	
BRS	3	BE	08/10/97		nest	101			101	
BRS	4	AW	09/10/97		ledge	25			25	
BRS	5a	SH	09/10/97		nest	58			58	
BRS	5b	BE	09/10/97		ledge	7			7	
BRS	6	AW	09/10/97		bino	12			12	
BRS	7	AW	09/10/97		bino	5			5	
BRS	9	BE	08/10/97		nest	0			0	
BRS	10	SH	09/10/97		bino	13	13	13	13	
BRS	11	SH	09/10/97		nest	1			1	
BRS	12	BE	08/10/97		nest	0			0	
BRS	13	SH	09/10/97		nest	3			3	
BRS	14	SH	09/10/97		nest	6			6	
BRS	15	BE	08/10/97		nest	0			0	
BRS	16	AW	08/10/97		nest	0			0	
BRS	17	AW	09/10/97		nest	13			13	
BRS	18	BE	09/10/97		ledge	0			0	
BRS	19	BE	08/10/97		nest	16			16	
BRS	20	AW	09/10/97		bino	25			25	
BRS	21a	BE	09/10/97		nest	1			1	
BRS	21b	BE	09/10/97		nest	56			56	
BRS	22	SH	08/10/97		nest	78			78	
BRS	SorTam	BE	08/10/97		side	0			0	
SUM of all counts									479	
SUM of nest visit counts									392	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of ledge /side counts									32	
Sum of bino view down									55	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra							
						N	On Egg			1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
							1st	2nd	3rd																
BULL ROCK NORTH CENSUS																									
BRN	1a	SH	10/10/97		bno	1									5			5	0			0			
BRN	1b	SH	10/10/97		bno	1									3			3	1			1			
BRN	1c	SH	10/10/97		bno	3									17	17	17	17	2	1	2	2			
BRN	2	AW	10/10/97		bno	3									16	15	16	16	0	0	0	0			
BRN	3	AW	10/10/97		bno	2									3	3		3	1	1		1			
BRN	4	AW	10/10/97		bno	1									5			5	2			2			
BRN	5	AW	10/10/97		bno	1									4			4	0			0			
BRN	5a	AW	10/10/97		bno	1									2			2	1			1			
BRN	6	AW /BE /SH	11/10/97		nest	3	60	50	58	56	13	16	20	16	73	66	78	72	8	8	5	7			
BRN	7	SH	10/10/97		bno	1									2			2	1			1			
BRN	8	SH	10/10/97		bno	3									18	17	18	18	1	1	1	1			
BRN	9	SH	10/10/97		bno	1									1			1	0			0			
BRN	10	SH	10/10/97		bno	1									0			0	0			0			
BRN	11	AW	11/10/97	1150	nest	1	4			4	3			3	7			7	2			2			
BRN	12	SH & AW	11/10/97		nest	1	122			122	32			32	154			154	21			21			
BRN	13	BE	11/10/97		nest	1	61			61	21			21	82			82	16			16			
BRN	13a	AW	10/10/97		nest	1	6			6	1			1	7			7	3			3			
BRN	14	AW /BE /SH	11/10/97		nest	3	15	13	14	14	4	4	5	4	19	17	19	18	2	6	3	4			
BRN	15	SH	10/10/97		nest	1	70			70	19			19	89			89	9			9			
BRN	16	AW	10/10/97		bno	1									10			10	3			3			
BRN	17	AW	10/10/97		bno	1									8			8	1			1			
BRN	18	AW	10/10/97		bno	1									22			22	3			3			
SUM of all counts																	545				77				
SUM of nest visit counts										333				97				430				62			
% of all bids on a nest																	87.6								
% of occupied nests containing an egg										77.5															
% of all bids on an egg										67.8															
Sum of bno across counts																	115				16				
HOOKERS PENNSULA CENSUS																									
HP	1a	SH	12/10/97		nest	1	35			35	6			6	41			41	2			2			
HP	1b	SH	12/10/97		nest	1	35			35	10			10	45			45	4			4			
HP	1c	BE	12/10/97		nest/egg	1	85			85	19			19	104			104	15			15			
HP	2a	AW	12/10/97	1245	nest	1	25			25	11			11	25			25	3			3			
HP	east of 2b	AW	12/10/97		bno	1									2			2	0			0			
HP	2b	SH	12/10/97		nest	1									0										

Colony	Sector	Obs-erver	Date	Time	Count type	Totalbirds			mean	com m ents
						1st	2nd	3rd		
BULL ROCK NORTH CENSUS										
BRN	1a	SH	10/10/97		bino	5			5	
BRN	1b	SH	10/10/97		bino	4			4	
BRN	1c	SH	10/10/97		bino	19	18	19	19	
BRN	2	AW	10/10/97		bino	16	15	16	16	
BRN	3	AW	10/10/97		bino	4	4		4	
BRN	4	AW	10/10/97		bino	7			7	
BRN	5	AW	10/10/97		bino	4			4	
BRN	5a	AW	10/10/97		bino	3			3	
BRN	6	AW /BE /SH	11/10/97		nest	81	74	83	79	
BRN	7	SH	10/10/97		bino	3			3	
BRN	8	SH	10/10/97		bino	19	18	19	19	
BRN	9	SH	10/10/97		bino	1			1	
BRN	10	SH	10/10/97		bino	0			0	
BRN	11	AW	11/10/97	1150	nest	9			9	
BRN	12	SH & AW	11/10/97		nest	175			175	
BRN	13	BE	11/10/97		nest	98			98	
BRN	13a	AW	10/10/97		nest	10			10	
BRN	14	AW /BE /SH	11/10/97		nest	21	23	22	22	
BRN	15	SH	10/10/97		nest	98			98	
BRN	16	AW	10/10/97		bino	13			13	
BRN	17	AW	10/10/97		bino	9			9	
BRN	18	AW	10/10/97		bino	25			25	
SUM of all counts									622	
SUM of nest visit counts									491	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of bino across counts									131	
HOOKERS PENNSULA CENSUS										
HP	1a	SH	12/10/97		nest	43			43	
HP	1b	SH	12/10/97		nest	49			49	
HP	1c	BE	12/10/97		nest/side	119			119	
HP	2a	AW	12/10/97	1245	nest	28			28	
HP	east of 2b	AW	12/10/97		bino	2			2	
HP	2b	SH	12/10/97		nest	0				

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
HP	2c	BE	12/10/97		nest	1	37			37	8			8	45			45	4			4			
HP	2d	BE	12/10/97		nest	1	14			14	2			2	16			16	0			0			
HP	3a	AW	12/10/97		nest	1	23			23	6			6	29			29	3			3			
HP	3b1	AW	12/10/97		nest	1	8			8	3			3	11			11	2			2			
HP	3b2	AW	12/10/97		nest	1	3			3	1			1	4			4	0			0			
HP	3c	AW /SH /BE	12/10/97	1500	nest	3	55	63	66	61	20	19	20	20	75	82	86	81	4	6	9	6			
HP	3d	BE	12/10/97		nest	1	29			29	9			9	38			38	7			7			
HP	3e	BE	12/10/97		nest	1	42			42	11			11	53			53	0			0			
HP	4	SH	12/10/97		nest	1	8			8	5			5	13			13	3			3			
HP	5	AW	12/10/97		nest	1	3			3	1			1	4			4	1			1			
SUM of all counts																		511				50			
SUM of nest visit counts										408								112				509	50		
% of all birds on a nest																						91.0			
% of occupied nests containing an egg										80.2															
% of all birds on an egg										73.0															
Sum of bino down counts																		2				0			
EASTERN COLONIES CENSUS																									
EC	1	AW	13/10/97		nest	1	0			0	0			0	0			0	0			0			
EC	2	AW	13/10/97		nest	1	0			0	0			0	0			0	0			0			
EC	2-bwer	AW	13/10/97		view	1								0											
EC	3	BE	13/10/97		view	1								0											
EC	4	AW	13/10/97		nest	1	0			0	0			0	0			0	0			0			
EC	5a	BE	13/10/97		nest	1	5			5	0			0	5			5	1			1			
EC	5b-upper	AW	13/10/97		nest	1								0											
EC	5b-bwer	AW	13/10/97		nest	1	1			1	0			0	1			1	0			0			
EC	6a-upper	SH	13/10/97		nest	1	6			6	0			0	6			6	0			0			
EC	6a-bwer	SH	13/10/97		view	1								0											
EC	6b-upper	BE	13/10/97		nest	1	0			0	0			0	0			0	0			0			
EC	6b-bwer	SH	13/10/97		view	1								8				8	1			1			
EC	6c	SH	13/10/97		nest	1	0			0	0			0	0			0	1			1			
EC	7-upper	BE	13/10/97	1550	nest	1	8			8	1			1	9			9	0			0			
EC	7-bwer	AW	13/10/97		nest	1	2			2	1			1	3			3	1			1			
EC	8a		13/10/97		view	1								6				6	4			4			
EC	8b	AW	13/10/97		view	1								8				8	3			3			
EC	8c	AW	13/10/97		nest	1	0			0	0			0	0			0	2			2			
EC	9	AW	13/10/97	1700	nest	1	3			3	0			0	3			3	1			1			
EC	9-bwer	SH	13/10/97		nest	1	13			13	3			3	16			16	4			4			
EC	10-upper	AW	13/10/97		nest	1	7			7	5			5	12			12	3			3			

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HP	2c	BE	12/10/97		nest	49			49	
HP	2d	BE	12/10/97		nest	16			16	
HP	3a	AW	12/10/97		nest	32			32	
HP	3b1	AW	12/10/97		nest	13			13	
HP	3b2	AW	12/10/97		nest	4			4	
HP	3c	AW /SH /BE	12/10/97	1500	nest	79	88	95	87	
HP	3d	BE	12/10/97		nest	45			45	
HP	3e	BE	12/10/97		nest	53			53	
HP	4	SH	12/10/97		nest	16			16	
HP	5	AW	12/10/97		nest	5			5	
SUM of all counts									561	
SUM of nest visit counts									559	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of bino down counts									2	
<b>EASTERN COLONIES CENSUS</b>										
EC	1	AW	13/10/97		nest	0			0	
EC	2	AW	13/10/97		nest	0			0	
EC	2-bwer	AW	13/10/97		view	0			0	
EC	3	BE	13/10/97		view	0			0	
EC	4	AW	13/10/97		nest	0			0	
EC	5a	BE	13/10/97		nest	6			6	
EC	5b-upper	AW	13/10/97		nest	0			0	
EC	5b-bwer	AW	13/10/97		nest	1			1	
EC	6a-upper	SH	13/10/97		nest	6			6	
EC	6a-bwer	SH	13/10/97		view	0			0	
EC	6b-upper	BE	13/10/97		nest	0			0	
EC	6b-bwer	SH	13/10/97		view	9			9	
EC	6c	SH	13/10/97		nest	1			1	
EC	7-upper	BE	13/10/97	1550	nest	9			9	
EC	7-bwer	AW	13/10/97		nest	4			4	
EC	8a		13/10/97		view	10			10	
EC	8b	AW	13/10/97		view	11			11	
EC	8c	AW	13/10/97		nest	2			2	
EC	9	AW	13/10/97	1700	nest	4			4	
EC	9-bwer	SH	13/10/97		nest	20			20	
EC	10-upper	AW	13/10/97		nest	15			15	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
EC	10-bwer	SH	13/10/97		nest	1	28			28	9			9	37			37	4			4			
EC	11-upper	AW	13/10/97		nest	1	6			6	0			0	6			6	0			0			
EC	11-bwer	SH	13/10/97		view	1								39			39	2				2			
EC	12-top	BE	13/10/97		nest	1	3			3	2			2	5			5	0			0			
EC	12	AW	13/10/97		nest	1	3			3	1			1	4			4	0			0			
EC	13a	AW	13/10/97		side	1	14			14	6			6	20			20	3			3			
EC	13b/14 upper	BE	13/10/97	1630	nest	1	7			7	5			5	12			12	2			2			
EC	13b/14 mid	AW	13/10/97		nest	1	9			9	4			4	13			13	1			1			
EC	13b/14 bwer	SH	13/10/97		nest	1	7			7	6			6	13			13	5			5			
EC	15	AW,SH,BE	14/10/97		nest	1	119			119	25			25	144			144	18			18			
EC	15-bwer	AW	14/10/97		bno	2								62	63			63	6	8		7			
EC	16/17	SH	14/10/97		nest	1	25			25	5			5	30			30	5			5			
EC	18	SH	14/10/97		view	1								1				1	0			0			
EC	19	BE	14/10/97		nest	1	8			8	2			2	10			10	5			5			
EC	20-bwer	BE	14/10/97	1350	nest	1	10			10	5			5	15			15	8			8			
EC	20-upper	SH	14/10/97		nest	1	0			0	1			1	1			1	0			0			
EC	23a	AW,SH	14/10/97		bno						0			0	0			0	0			0			
EC	23b	BE	14/10/97		bno	1								0				0	0			0			
EC	23b	AW	14/10/97		bno	1								0				0	0			0			
EC	23c	AW	14/10/97		view	1								0				0	0			0			
EC	24	AW	14/10/97	1600	view	1								0				0	0			0			
SUM of all counts																		490				81			
SUM of nest visit counts										270				75				345				61			
% of all bids on a nest																	85.8								
% of occupied nests containing an egg										78.3															
% of all bids on an egg										66.5															
Sum of ledge /side counts																		20				3			
Sum of views down																		62				10			
Sum of binow views down																		63				7			
HOOKERS FINGER COMBINED COLONIES CENSUS																									
HF	6a	BE	15/10/97		nest	1	8			8	2			2	10			10	0			0			
HF	6b	BE	15/10/97		nest	1	69			69	14			14	83			83	6			6			
HF	6c	BE	15/10/97		nest	1	20			20	4			4	24			24	2			2			
HF	5a	BE	15/10/97		nest	1	43			43	11			11	54			54	4			4			
HF	5b	SH	15/10/97		nest	1	15			15	3			3	18			18	2			2			
HF	5c	SH	15/10/97		nest	1	12			12	0			0	12			12	0			0			
HF	5c-top	SH	15/10/97		nest	1	2			2	1			1	3			3	0			0			
HF	5d	BE	15/10/97		nest	1	11			11	5			5	16			16	0			0			

Colony	Sector	Observer	Date	Time	Count type	Total birds			mean	comments
						1st	2nd	3rd		
EC	10-lower	SH	13/10/97		nest	41			41	
EC	11-upper	AW	13/10/97		nest	6			6	
EC	11-lower	SH	13/10/97		view	41			41	
EC	12-top	BE	13/10/97		nest	5			5	
EC	12	AW	13/10/97		nest	4			4	
EC	13a	AW	13/10/97		side	23			23	
EC	13b/14 upper	BE	13/10/97	1630	nest	14			14	
EC	13b/14 mid	AW	13/10/97		nest	14			14	
EC	13b/14 lower	SH	13/10/97		nest	18			18	
EC	15	AW,SH,BE	14/10/97		nest	162			162	
EC	15-lower	AW	14/10/97		binow	68	71		70	
EC	16/17	SH	14/10/97		nest	35			35	
EC	18	SH	14/10/97		view	1			1	
EC	19	BE	14/10/97		nest	15			15	
EC	20-lower	BE	14/10/97	1350	nest	23			23	
EC	20-upper	SH	14/10/97		nest	1			1	
EC	23a	AW,SH	14/10/97		binow	0			0	
EC	23b	BE	14/10/97		binow	0			0	
EC	23b	AW	14/10/97		binow	0			0	
EC	23c	AW	14/10/97		view	0			0	
EC	24	AW	14/10/97	1600	view	0			0	
SUM of all counts									571	
SUM of nest visit counts									406	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Sum of ledge /side counts									23	
Sum of views down									72	
Sum of binow views down									70	
<b>HOOKERS FINGER COMBINED COLONIES CENSUS</b>										
HF	6a	BE	15/10/97		nest	10			10	
HF	6b	BE	15/10/97		nest	89			89	
HF	6c	BE	15/10/97		nest	26			26	
HF	5a	BE	15/10/97		nest	58			58	
HF	5b	SH	15/10/97		nest	20			20	
HF	5c	SH	15/10/97		nest	12			12	
HF	5c-top	SH	15/10/97		nest	3			3	
HF	5d	BE	15/10/97		nest	16			16	



Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																	
						On Egg					On Empty Nest					On Nest					Extra		
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	
HF	3a	AW	15/10/97		nest	1	39			39	8			8	47			47	1			1	
HF	3b	AW	15/10/97		nest	1	8			8	3			3	11			11	0			0	
HF	3c	AW	15/10/97		nest	1	9			9	3			3	12			12	2			2	
HF	3d	AW	15/10/97		nest	1	50			50	12			12	62			62	2			2	
HF	3e	AW	15/10/97		nest	1	9			9	2			2	11			11	1			1	
HF	3f	AW	15/10/97		nest	1	23			23	4			4	27			27	0			0	
HF	2a	SH	15/10/97		nest	1	13			13	2			2	15			15	3			3	
HF	2b	AW	15/10/97		nest	1	25			25	3			3	28			28	1			1	
HF	2c	SH	15/10/97		nest	1	26			26	0			0	26			26	0			0	
HF	2d	SH	15/10/97		nest	1	30			30	3			3	33			33	1			1	
HF	2e	AW	15/10/97		nest	1	6			6	0			0	6			6	1			1	
HF	2f	AW	15/10/97		nest	1	38			38	5			5	43			43	6			6	
HF	2g	AW	15/10/97		nest	1	13			13	3			3	16			16	1			1	
HF	2h	SH	15/10/97		nest	1	113			113	26			26	139			139	6			6	
HF	2i	BE	15/10/97		nest	1	41			41	8			8	49			49	3			3	
HF	2j	BE	15/10/97		nest	1	8			8	1			1	9			9	1			1	
HF	2k	BE	15/10/97		nest	1	29			29	4			4	33			33	1			1	
HF	2l	BE	15/10/97		nest	1	35			35	8			8	43			43	2			2	
HF	2m	BE	15/10/97		nest	1	35			35	8			8	43			43	2			2	
HF	2n	AW	15/10/97		nest	1	1			1	1			1	2			2	0			0	
HF	2o	BE	15/10/97		nest	1	0			0	0			0	0			0	0			0	
SUM of all counts																		832				46	
SUM of nest visit counts										696					136			832				46	
% of all birds on a nest																		94.8					
% of occupied nests containing an egg										83.7													
% of all birds on an egg										79.3													
HOOKERS FINGER COLONY 6 CENSUS																							
HF	6a	BE	15/10/97		nest	1	8			8	2			2	10			10	0			0	
HF	6b	BE	15/10/97		nest	1	69			69	14			14	83			83	6			6	
HF	6c	BE	15/10/97		nest	1	20			20	4			4	24			24	2			2	
SUM of all counts																		117				8	
SUM of nest visit counts										97					20			117				8	
% of all birds on a nest																		93.6					
% of occupied nests containing an egg										82.9													
% of all birds on an egg										77.6													

Colony	Sector	Observer	Date	Time	Count type	Total birds			mean	comments
						1st	2nd	3rd		
HF	3a	AW	15/10/97		nest	48			48	
HF	3b	AW	15/10/97		nest	11			11	
HF	3c	AW	15/10/97		nest	14			14	
HF	3d	AW	15/10/97		nest	64			64	
HF	3e	AW	15/10/97		nest	12			12	
HF	3f	AW	15/10/97		nest	27			27	
HF	2a	SH	15/10/97		nest	18			18	
HF	2b	AW	15/10/97		nest	29			29	
HF	2c	SH	15/10/97		nest	26			26	
HF	2d	SH	15/10/97		nest	34			34	
HF	2e	AW	15/10/97		nest	7			7	
HF	2f	AW	15/10/97		nest	49			49	
HF	2g	AW	15/10/97		nest	17			17	
HF	2h	SH	15/10/97		nest	145			145	
HF	2i	BE	15/10/97		nest	52			52	
HF	2j	BE	15/10/97		nest	10			10	
HF	2k	BE	15/10/97		nest	34			34	
HF	2m	BE	15/10/97		nest	45			45	
HF	2n	AW	15/10/97		nest	2			2	
HF	2p	BE	15/10/97		nest	0			0	
SUM of all counts									878	
SUM of nest visit counts									878	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
<b>HOOKERS FINGER COLONY 6 CENSUS</b>										
HF	6a	BE	15/10/97		nest	10			10	
HF	6b	BE	15/10/97		nest	89			89	
HF	6c	BE	15/10/97		nest	26			26	
SUM of all counts									125	
SUM of nest visit counts									125	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra							
						N	On Egg			1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
							1st	2nd	3rd																
HOOKERS FINGER COLONY 5 CENSUS																									
HF	5a	BE	15/10/97		nest	1	43			43	11			11	54			54	4			4			
HF	5b	SH	15/10/97		nest	1	15			15	3			3	18			18	2			2			
HF	5c	SH	15/10/97		nest	1	12			12	0			0	12			12	0			0			
HF	5c-top	SH	15/10/97		nest	1	2			2	1			1	3			3	0			0			
HF	5d	BE	15/10/97		nest	1	11			11	5			5	16			16	0			0			
SUM of all counts																		103				6			
SUM of nest visit counts										83				20				103				6			
% of all bids on a nest																		94.5							
% of occupied nests containing an egg										80.6															
% of all bids on an egg										76.1															
HOOKERS FINGER COLONY 3 CENSUS																									
HF	3a	AW	15/10/97		nest	1	39			39	8			8	47			47	1			1			
HF	3b	AW	15/10/97		nest	1	8			8	3			3	11			11	0			0			
HF	3c	AW	15/10/97		nest	1	9			9	3			3	12			12	2			2			
HF	3d	AW	15/10/97		nest	1	50			50	12			12	62			62	2			2			
HF	3e	AW	15/10/97		nest	1	9			9	2			2	11			11	1			1			
HF	3f	AW	15/10/97		nest	1	23			23	4			4	27			27	0			0			
SUM of all counts																		170				6			
SUM of nest visit counts										138				32				170				6			
% of all bids on a nest																		96.6							
% of occupied nests containing an egg										81.2															
% of all bids on an egg										78.4															
HOOKERS FINGER COLONY 2 CENSUS																									
HF	2a	SH	15/10/97		nest	1	13			13	2			2	15			15	3			3			
HF	2b	AW	15/10/97		nest	1	25			25	3			3	28			28	1			1			
HF	2c	SH	15/10/97		nest	1	26			26	0			0	26			26	0			0			
HF	2d	SH	15/10/97		nest	1	30			30	3			3	33			33	1			1			
HF	2e	AW	15/10/97		nest	1	6			6	0			0	6			6	1			1			
HF	2f	AW	15/10/97		nest	1	38			38	5			5	43			43	6			6			
HF	2g	AW	15/10/97		nest	1	13			13	3			3	16			16	1			1			
HF	2h	SH	15/10/97		nest	1	113			113	26			26	139			139	6			6			
HF	2i	BE	15/10/97		nest	1	41			41	8			8	49			49	3			3			
HF	2j	BE	15/10/97		nest	1	8			8	1			1	9			9	1			1			
HF	2k	BE	15/10/97		nest	1	29			29	4			4	33			33	1			1			

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HOOKERS FINGER COLONY 5 CENSUS										
HF	5a	BE	15/10/97		nest	58			58	
HF	5b	SH	15/10/97		nest	20			20	
HF	5c	SH	15/10/97		nest	12			12	
HF	5c-top	SH	15/10/97		nest	3			3	
HF	5d	BE	15/10/97		nest	16			16	
SUM of all counts										
SUM of nest visit counts										
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 3 CENSUS										
HF	3a	AW	15/10/97		nest	48			48	
HF	3b	AW	15/10/97		nest	11			11	
HF	3c	AW	15/10/97		nest	14			14	
HF	3d	AW	15/10/97		nest	64			64	
HF	3e	AW	15/10/97		nest	12			12	
HF	3f	AW	15/10/97		nest	27			27	
SUM of all counts										
SUM of nest visit counts										
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
HOOKERS FINGER COLONY 2 CENSUS										
HF	2a	SH	15/10/97		nest	18			18	
HF	2b	AW	15/10/97		nest	29			29	
HF	2c	SH	15/10/97		nest	26			26	
HF	2d	SH	15/10/97		nest	34			34	
HF	2e	AW	15/10/97		nest	7			7	
HF	2f	AW	15/10/97		nest	49			49	
HF	2g	AW	15/10/97		nest	17			17	
HF	2h	SH	15/10/97		nest	145			145	
HF	2i	BE	15/10/97		nest	52			52	
HF	2j	BE	15/10/97		nest	10			10	
HF	2k	BE	15/10/97		nest	34			34	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																
						On Egg					On Empty Nest					On Nest					Extra	
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
HF	2m	BE	15/10/97		nest	1	35			35	8			8	43			43	2			2
HF	2n	AW	15/10/97		nest	1	1			1	1			1	2			2	0			0
HF	2p	BE	15/10/97		nest	1	0			0	0			0	0			0	0			0
SUM of all counts																		442				26
SUM of nest visit counts										378				64				442				26
% of all birds on a nest																		94.4				
% of occupied nests containing an egg										85.5												
% of all birds on an egg										80.8												
COURREJOLLES ISTHMUS CENSUS																						
C1	1a	SH	15/10/97		nest	1	22			22	2			2	24			24	3			3
C1	1b	AW	15/10/97	1630	nest	1	18			18	2			2	20			20	0			0
C1	1c	AW	15/10/97		nest	1	49			49	7			7	56			56	9			9
C1	1d	SH	15/10/97		nest	1	42			42	2			2	44			44	1			1
C1	1e	SH	15/10/97		nest	1	50			50	3			3	53			53	4			4
C1	1f	AW	15/10/97		nest	1	64			64	12			12	76			76	10			10
C1	JDK	AW SH	15/10/97		nest	1	38			38	8			8	46			46	0			0
SUM of all counts																		319				27
SUM of nest visit counts										283				36				319				27
% of all birds on a nest																		92.2				
% of occupied nests containing an egg										88.7												
% of all birds on an egg										81.8												
COURREJOLLES PENINSULA TELESCOPE COUNTS																						
CP	A1	AW	18/10/97		tele	1																
CP	A2	AW	18/10/97		tele	1																
CP	A3	AW	18/10/97		tele	1																
CP	A4	AW	18/10/97		tele	1																
CP	A5	AW	18/10/97		tele	1																
CP	A6	AW	18/10/97		tele	2																
CP	A7	AW	18/10/97		tele	2																
CP	A8	AW	18/10/97		tele	2																
CP	A9	AW	18/10/97		tele	1																
CP	A10	AW	18/10/97		tele	2																
CP	A11	AW	18/10/97		tele	1																
CP	A12	AW	18/10/97		tele	2																
CP	A13	AW	18/10/97		tele	1																
CP	A14	AW	19/10/97		tele	1																
CP	A15	AW	19/10/97		tele	1																

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
HF	2m	BE	15/10/97		nest	45			45	
HF	2n	AW	15/10/97		nest	2			2	
HF	2p	BE	15/10/97		nest	0			0	
SUM of all counts									468	
SUM of nest visit counts									468	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
COURREJOLLES ISTHMUS CENSUS										
C1	1a	SH	15/10/97		nest	27			27	
C1	1b	AW	15/10/97	1630	nest	20			20	
C1	1c	AW	15/10/97		nest	65			65	
C1	1d	SH	15/10/97		nest	45			45	
C1	1e	SH	15/10/97		nest	57			57	
C1	1f	AW	15/10/97		nest	86			86	
C1	JDK	AW SH	15/10/97		nest	46			46	
SUM of all counts									346	
SUM of nest visit counts									346	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
COURREJOLLES PENNSULA TELESCOPE COUNTS										
CP	A1	AW	18/10/97		tele	12			12	18/10/97 counts from 1100-1700 hours
CP	A2	AW	18/10/97		tele	41			41	
CP	A3	AW	18/10/97		tele	67			67	
CP	A4	AW	18/10/97		tele	46			46	
CP	A5	AW	18/10/97		tele	6			6	
CP	A6	AW	18/10/97		tele	42	41		42	
CP	A7	AW	18/10/97		tele	29	29		29	
CP	A8	AW	18/10/97		tele	34	33		34	
CP	A9	AW	18/10/97		tele	20			20	
CP	A10	AW	18/10/97		tele	57	60		59	
CP	A11	AW	18/10/97		tele	31			31	
CP	A12	AW	18/10/97		tele	28	29		29	
CP	A13	AW	18/10/97		tele	32			32	
CP	A14	AW	19/10/97		tele	310			310	all GH colony - rough count 310
CP	A15	AW	19/10/97		tele	107			107	19/10/97 counts from 1100-1400 hours

Colony	Sector	Observer	Date	Time	Count	Grey-headed mollymawk																
						On Egg				On Empty Nest				On Nest				Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
CP	A16	AW	19/10/97		tele	1																
CP	A17a,bA19a	AW	18/10/97		tele	1																
CP	A18a	AW	18/10/97		tele	1																
CP	A18b	AW	18/10/97		tele	1																
CP	A19b	AW	18/10/97		tele	1																
CP	A20	AW	19/10/97		tele	2																
CP	A21,22	AW	19/10/97		tele	1																
CP	A23	AW	19/10/97		tele	1																
CP	A24	AW	19/10/97		tele	1																
CP	A25	AW	19/10/97		tele	1																
CP	A26	AW	19/10/97		tele	1																
CP	A27	AW	18/10/97		tele	1																
CP	A28	AW	18/10/97		tele	1																
CP	A29	AW	18/10/97		tele	1																
CP	A30	AW	18/10/97		tele	1																
CP	A31	AW	18/10/97		tele	1																
CP	A32	AW	18/10/97		tele	1																
CP	A33	AW	18/10/97		tele	1																
CP	A34	AW	18/10/97		tele	1																
CP	A35-36	AW	18/10/97		tele	1																
CP	A37	AW	18/10/97		tele	1																
CP	P1	SH/AW	18/10/97	1100	tele	2																
CP	P2	SH/AW	18/10/97		tele	2																
CP	P3	SH/AW	18/10/97		tele	3																
CP	P4	SH/AW	18/10/97		tele	3																
CP	P5	SH/AW	18/10/97		tele	3																
CP	P6	SH	18/10/97		tele	2																
CP	P7	SH	18/10/97		tele	2																
CP	P8	SH	18/10/97		tele	3																
CP	P9	SH	18/10/97		tele	1																
CP	P10a	SH	18/10/97		tele	1																
CP	P10b	SH	18/10/97		tele	1																
CP	P10c	SH	18/10/97		tele	2																
CP	P10d	SH	18/10/97		tele	1																
CP	P10e	SH	18/10/97		tele	2																
CP	P11a	SH	18/10/97		tele	1																
CP	P11b	SH	18/10/97		tele	1																
CP	P11c	SH	18/10/97		tele	1																

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
CP	A16	AW	19/10/97		tele	51			51	
CP	A17a,b,A19a	AW	18/10/97		tele	37			37	
CP	A18a	AW	18/10/97		tele	47			47	
CP	A18b	AW	18/10/97		tele	6			6	
CP	A19b	AW	18/10/97		tele	89			89	
CP	A20	AW	19/10/97		tele	84	99		92	
CP	A21,22	AW	19/10/97		tele	123			123	
CP	A23	AW	19/10/97		tele	88			88	
CP	A24	AW	19/10/97		tele	99			99	boundary between 23, 24, 25 not well defined
CP	A25	AW	19/10/97		tele	147			147	sector mostly GH
CP	A26	AW	19/10/97		tele	16			16	
CP	A27	AW	18/10/97		tele	16			16	
CP	A28	AW	18/10/97		tele	6			6	
CP	A29	AW	18/10/97		tele	27			27	
CP	A30	AW	18/10/97		tele	61			61	
CP	A31	AW	18/10/97		tele	23			23	
CP	A32	AW	18/10/97		tele	28			28	
CP	A33	AW	18/10/97		tele	78			78	
CP	A34	AW	18/10/97		tele	97			97	
CP	A35-36	AW	18/10/97		tele	219			219	
CP	A37	AW	18/10/97		tele	193			193	
CP	P1	SH/AW	18/10/97	1100	tele	3	2		3	
CP	P2	SH/AW	18/10/97		tele	12	14		13	
CP	P3	SH/AW	18/10/97		tele	22	22	19	21	
CP	P4	SH/AW	18/10/97		tele	30	29	35	31	
CP	P5	SH/AW	18/10/97		tele	10	11	7	9	
CP	P6	SH	18/10/97		tele	22	22		22	
CP	P7	SH	18/10/97		tele	32	33		33	
CP	P8	SH	18/10/97		tele	67	65	65	66	
CP	P9	SH	18/10/97		tele	16			16	
CP	P10a	SH	18/10/97		tele	22			22	
CP	P10b	SH	18/10/97		tele	7			7	
CP	P10c	SH	18/10/97		tele	53	55		54	
CP	P10d	SH	18/10/97		tele	27			27	
CP	P10e	SH	18/10/97		tele	47	47		47	
CP	P11a	SH	18/10/97		tele	0			0	
CP	P11b	SH	18/10/97		tele	0			0	
CP	P11c	SH	18/10/97		tele	4			4	



Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra							
						N	On Egg			1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
							1st	2nd	3rd																
CP	P12	SH	18/10/97		tele	2																			
CP	P13	SH	18/10/97		tele	2																			
CP	P14	SH	18/10/97		tele	1																			
CP	P15	SH	18/10/97		tele	2																			
CP	P16	SH	18/10/97		tele	1																			
CP	P17	SH	18/10/97		tele	2																			
CP	P18	SH	18/10/97		tele	1																			
CP	P19	SH	18/10/97		tele	1																			
CP	P20	SH	18/10/97		tele	2																			
CP	P21	SH	18/10/97		tele	1																			
CP	P22	SH	18/10/97		tele	1																			
CP	P23	SH	18/10/97		tele	2																			
CP	P24	SH	19/10/97		tele	1																			
CP	P25	SH	19/10/97		tele	1																			
CP	P26	SH	19/10/97		tele	1																			
CP	P27	SH	18/10/97		tele	1																			
CP	P28	SH	19/10/97		tele	2																			
CP	P29	AW	18/10/97		tele	1																			
CP	P30	AW	18/10/97		tele	1																			
CP	P31	AW	18/10/97		tele	1																			
CP	P32	AW	18/10/97		tele	1																			
CP	P33	AW	18/10/97		tele	1																			
CP	P34	AW	18/10/97		tele	2																			
CP	P35	AW	18/10/97		tele	1																			
CP	P36	AW	18/10/97		tele	1																			
CP	P37	AW	18/10/97		tele	1																			
CP	P38	AW	18/10/97		tele	1																			
CP	P39/40	AW	18/10/97		tele	1																			
CP	P41	AW	18/10/97		tele	1																			
SUM of all counts																									
Sum AW counts																									
Sum SH counts																									
Corrected SH count for undercount (x1.39)																									
Estimated total																									
ISLE DE JEANETTE MARE TELESCOPE COUNT																									
		AW	19/10/97	1515	tele																				
		SH	19/10/97	1515	tele																				

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
CP	P12	SH	18/10/97		tele	72	72		72	
CP	P13	SH	18/10/97		tele	34	37		36	
CP	P14	SH	18/10/97		tele	3			3	
CP	P15	SH	18/10/97		tele	49	51		50	
CP	P16	SH	18/10/97		tele	11			11	
CP	P17	SH	18/10/97		tele	46	45		46	
CP	P18	SH	18/10/97		tele	10			10	
CP	P19	SH	18/10/97		tele	45			45	
CP	P20	SH	18/10/97		tele	27	26		27	
CP	P21	SH	18/10/97		tele	48			48	sector probably all GHs
CP	P22	SH	18/10/97		tele	14			14	
CP	P23	SH	18/10/97		tele	28	31		30	P22/23 boundary vague
CP	P24	SH	19/10/97		tele	35			35	
CP	P25	SH	19/10/97		tele	10			10	
CP	P26	SH	19/10/97		tele	6			6	
CP	P27	SH	18/10/97		tele	3			3	
CP	P28	SH	19/10/97		tele	127	131		129	
CP	P29	AW	18/10/97		tele	16			16	SH counts not used
CP	P30	AW	18/10/97		tele	31			31	SH counts not used
CP	P31	AW	18/10/97		tele	51			51	SH counts not used
CP	P32	AW	18/10/97		tele	29			29	SH counts not used
CP	P33	AW	18/10/97		tele	45			45	
CP	P34	AW	18/10/97		tele	31	30		31	
CP	P35	AW	18/10/97		tele	81			81	
CP	P36	AW	18/10/97		tele	44			44	
CP	P37	AW	18/10/97		tele	46			46	
CP	P38	AW	18/10/97		tele	50			50	
CP	P39/40	AW	18/10/97		tele	84			84	
CP	P41	AW	18/10/97		tele	17			17	
SUM of all counts									3877	
Sum AW counts									3007	
Sum SH counts									870	
Corrected SH count for undercount (x1.39)									1210	
Estimated total									4217	
<b>ISLE DE JEANETTE MARE TELESCOPE COUNT</b>										
		AW	19/10/97	1515	tele	0			0	25 X magnification
		SH	19/10/97	1515	tele	0			0	25 X magnification

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																
						On Egg					On Empty Nest					On Nest					Extra	
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
		AW	19/10/97	1515	tele																	
		SH	19/10/97	1515	tele																	
Grey-headed Mollymawk Summary Oct. 1997																						
Eastern cobnies		SUM of all counts																			490	81
BullRock South		SUM of all counts																			400	79
BullRock North		SUM of all counts																			545	77
Hookers Peninsula		SUM of all counts																			511	50
Hookers Finger		SUM of all counts																			832	46
Counre ples Isthm us		SUM of all counts																			319	27
Isle de Jeanette Mare		telescope count of total birds minus estimated extras																			0	0
Counre ples Peninsula		Photo estimate of total birds minus estimated extras																			3793	424
Total:																					6889	785
Eastern cobnies		SUM of nest visit counts								270				75							345	61
BullRock South		SUM of nest visit counts								228				101							329	63
BullRock North		SUM of nest visit counts								333				97							430	62
Hookers Peninsula		SUM of nest visit counts								408				112							509	50
Hookers Finger		SUM of nest visit counts								696				136							832	46
Counre ples Isthm us		SUM of nest visit counts								283				36							319	27
Total:										2218				556							2764	309
% of all birds on a nest																					89.9	
% of occupied nests containing an egg										80.3												
% of all birds on an egg										72.2												
Eastern cobnies		Sum of ledge/side counts																			20	3
BullRock South		Sum of ledge counts																			29	3
Eastern cobnies		Sum of view down																			62	10
Eastern cobnies		Sum of bino down																			63	7
BullRock South		Sum of bino down																			42	13
Hookers Peninsula		Sum of bino down																			2	0
BullRock North		Sum of bino view across																			115	16
Sum of nest visits																					2764	309
Sum of ledge counts																					49	6
Sum of view down																					62	10

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
		AW	19/10/97	1515	tele	0			0	60 X magnification
		SH	19/10/97	1515	tele	0			0	60 X magnification counted from tam north of M t A zimuth
Grey-headed M o l l y m a w k S u m m a r y O c t . 1 9 9 7										
Eastern cobnies			SUM of all counts						571	
BullRock South			SUM of all counts						479	
BullRock North			SUM of all counts						622	
Hookers Peninsula			SUM of all counts						561	
Hookers Finger			SUM of all counts						878	
Courneyles Isthmus			SUM of all counts						346	
Isle de Jeanette Marie			telescope count of total birds						0	
Courneyles Peninsula			Photo estimate of total birds						4217	
Total									7674	
Eastern cobnies			SUM of nest visit counts						406	
BullRock South			SUM of nest visit counts						392	
BullRock North			SUM of nest visit counts						491	
Hookers Peninsula			SUM of nest visit counts						559	
Hookers Finger			SUM of nest visit counts						878	
Courneyles Isthmus			SUM of nest visit counts						346	
Total									3072.67	
% of all birds on a nest										
% of occupied nests containing an egg										
% of all birds on an egg										
Eastern cobnies			Sum of ledge / side counts						23	
BullRock South			Sum of ledge counts						32	
Eastern cobnies			Sum of view down						72	
Eastern cobnies			Sum of bino down						70	
BullRock South			Sum of bino down						55	
Hookers Peninsula			Sum of bino down						2	
BullRock North			Sum of bino view across						131	
Sum of nest visits									3073	
Sum of ledge counts									55	
Sum of view down									72	



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
Sum of bino down									127	
Sum of bino across									131	
Sum of telescope counts									4217	
Total									7674	
% of all birds on a nest										
BULL ROCK SOUTH REPEAT COUNTS										
BRS	c	SH	08/10/97		nest	4			4	
BRS	c	SH	29/10/97		nest	4			4	
BRS	11	SH	09/10/97		nest	1			1	
BRS	11	BE	29/10/97		nest	2			2	
BRS	14	SH	09/10/97		nest	6			6	
BRS	14	AW	29/10/97		nest	4			4	
BRS	22	SH	08/10/97		nest	78			78	
BRS	22	SH&BE	29/10/97		nest	78			78	
BULL ROCK NORTH REPEAT COUNTS										
BRN	12	SH/AW	11/10/97		nest	175			175	
BRN	12	BE/AW	30/10/97		nest	142			142	
BRN	13	BE	11/10/97		nest	98			98	
BRN	13	BE	30/10/97	1220	nest	74			74	
BRN	13	AW/SH	30/10/97	1510	nest	86			86	
BRN	13a	AW	10/10/97		nest	10			10	
BRN	13a	AW	30/10/97		nest	6			6	
BRN	14	BE/AW/SH	11/10/97		nest	23	21	22	22	
BRN	14	SH	30/10/97		nest	20			20	
BRN	15	SH	10/10/97		nest	98			98	
BRN	15	SH	30/10/97		ledge	94			94	
BRN	15	SH	30/10/97		nest	92			92	
HOOKERS FINGER REPEAT COUNTS										
HF	5d	BE	15/10/97		nest	16			16	
HF	5d	SH	31/10/97		nest	17			17	may have missed small group on top ledge of this colony for previous count
HF	5c top	SH	15/10/97		nest	3			3	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk																			
						On Egg					On Empty Nest					On Nest					Extra				
						N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd
HF	5c top	SH	31/10/97		nest	1	2			2	0			0	2			2	1			1			
HF	5c	SH	15/10/97		nest	1	12			12	0			0	12			12	0			0			
HF	5c	SH	31/10/97		nest	1	12			12	0			0	12			12	0			0			
HF	3a	AW	15/10/97		nest	1	39			39	8			8	47			47	1			1			
HF	3a	AW	31/10/97		nest	1	37			37	13			13	50			50	7			7			
HF	3b	AW	15/10/97		nest	1	8			8	3			3	11			11	0			0			
HF	3b	AW	31/10/97	1230	nest	1	8			8	2			2	10			10	2			2			
HF	3c	AW	15/10/97		nest	1	9			9	3			3	12			12	2			2			
HF	3c	AW	31/10/97	1220	nest	1	9			9	4			4	13			13	2			2			
HF	2b	AW	15/10/97		nest	1	25			25	3			3	28			28	1			1			
HF	2b	AW /SH	31/10/97	1330	nest	2	25	25		25	5	5		5	30	30		30	2	5		4			
HF	2h	SH	15/10/97		nest	1	113			113	26			26	139			139	6			6			
HF	2h	BE	31/10/97		nest	1	108			108	20			20	128			128	12			12			
HF	2:	BE	15/10/97		nest	1	41			41	8			8	49			49	3			3			
HF	2:	BE	31/10/97		nest	1	41			41	5			5	46			46	2			2			
COURREJOLLES ISTHMUS REPEAT COUNTS																									
CJ	1a	SH	15/10/97		nest	1	22			22	2			2	24			24	3			3			
CJ	1a	SH	31/10/97		nest	1	22			22	2			2	24			24	3			3			
CJ	1d	SH	15/10/97		nest	1	42			42	2			2	44			44	1			1			
CJ	1d	SH	31/10/97		nest	1	40			40	1			1	41			41	4			4			
CJ	1f	AW	15/10/97		nest	1	64			64	12			12	76			76	10			10			
CJ	1f	BE	31/10/97		nest	1	64			64	10			10	74			74	12			12			
CJ	JDK	AW /SH	15/10/97		nest	1	38			38	8			8	46			46	0			0			
CJ	JDK	AW	31/10/97	1540	nest	1	38			38	7			7	45			45	4			4			
REPLICATE NEST VISIT COUNTS																									
BRN	6	AW	11/10/97		nest	1	60			60	13			13	73			73	8			8			
BRN	6	SH	11/10/97		nest	1	58			58	20			20	78			78	5			5			
BRN	6	BE	11/10/97		nest	1	50			50	16			16	66			66	8			8			
BRN	6	AW /SH/BE	11/10/97		nest	3	60	58	50	56.0	13	20	16	16.3	73	78	66	72.3	8	5	8	7.0			
					nest	sd	CV	5.3	9.4			3.5	21.5			6.0	8.3			1.7	24.7				
BRN	6	AW /SH	11/10/97		nest	2	60	58		59.0	13	20		16.5	73	78		75.5	8	5		6.5			
					nest	sd	CV	1.4	2.4			4.9	30.0			3.5	4.7			2.1	32.6				
BRN	13	AW	30/10/97	1510	nest		64			64	8			8	72			72	14			14			
BRN	13	SH	30/10/97	1320	nest		66			66	11			11	77			77	6			6			

Colony	Sector	Observer	Date	Time	Count type	Total birds			mean	comments
						1st	2nd	3rd		
HF	5c top	SH	31/10/97		nest	3			3	
HF	5c	SH	15/10/97		nest	12			12	
HF	5c	SH	31/10/97		nest	12			12	
HF	3a	AW	15/10/97		nest	48			48	
HF	3a	AW	31/10/97		nest	57			57	
HF	3b	AW	15/10/97		nest	11			11	
HF	3b	AW	31/10/97	1230	nest	12			12	
HF	3c	AW	15/10/97		nest	14			14	
HF	3c	AW	31/10/97	1220	nest	15			15	
HF	2b	AW	15/10/97		nest	29			29	
HF	2b	AW /SH	31/10/97	1330	nest	32	35		34	
HF	2h	SH	15/10/97		nest	145			145	
HF	2h	BE	31/10/97		nest	140			140	
HF	2:	BE	15/10/97		nest	52			52	
HF	2:	BE	31/10/97		nest	48			48	
COURREJOLLES ISTHMUS REPEAT COUNTS										
CJ	1a	SH	15/10/97		nest	27			27	
CJ	1a	SH	31/10/97		nest	27			27	
CJ	1d	SH	15/10/97		nest	45			45	
CJ	1d	SH	31/10/97		nest	45			45	
CJ	1f	AW	15/10/97		nest	86			86	
CJ	1f	BE	31/10/97		nest	86			86	
CJ	JDK	AW /SH	15/10/97		nest	46			46	
CJ	JDK	AW	31/10/97	1540	nest	49			49	
REPLICATE NEST VISIT COUNTS										
BRN	6	AW	11/10/97		nest	81			81	
BRN	6	SH	11/10/97		nest	83			83	
BRN	6	BE	11/10/97		nest	74			74	
BRN	6	AW /SH/BE	11/10/97		nest	81	83	74	79.3	
BRN	6	AW /SH	11/10/97		nest	81	83		82.0	
BRN	6	AW /SH	11/10/97		nest		1.4	1.7		
BRN	13	AW	30/10/97	1510	nest				86	
BRN	13	SH	30/10/97	1320	nest				83	



Colony	Sector	Observer	Date	Time	Count	Grey-headed mollymawk																				
						type	On Egg					On Empty Nest					On Nest					Extra				
							N	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean			
BRN	13	BE	30/10/97	1220	nest		58			58	11			11	69			69	5			5				
BRN	13	AW /SH/BE	30/10/97		nest	3	64	66	58	62.7	8	11	11	10.0	72	77	69	72.7	14	6	5	8.3				
					sd	CV	4.2	6.6				1.7	17.3		4.0	5.6			4.9	59.2						
BRN	13	AW /SH	30/10/97		nest	2	264	262		263.0	47	52		49.5	311	314		312.5	35	32		33.5				
					sd	CV	1.4	0.5			3.5	7.1			2.1	0.7			2.1	6.3						
BRN	14	AW	10/10/97		nest	1	15			15	4			4	19			19	2			2				
BRN	14	SH	10/10/97		nest	1	14			14	5			5	19			19	3			3				
BRN	14	BE	11/10/97		nest	1	13			13	4			4	17			17	6			6				
BRN	14	AW /SH/BE	10/10/97		nest	3	15	14	13	14.0	4	5	4	4.3	19	19	17	18.3	2	3	6	3.7				
					sd	CV	1.0	7.1			0.6	13.3			1.2	6.3			2.1	56.8						
BRN	14	AW /SH	10/10/97		nest	2	15	14		14.5	4	5		4.5	19	19		19.0	2	3		2.5				
					sd	CV	0.7	4.9			0.7	15.7			0.0	0.0			0.7	28.3						
HP	3c	AW	12/10/97	1500	nest	1	55			55	20			20	75			75	4			4				
HP	3c	SH	12/10/97		nest	1	63			63	19			19	82			82	6			6				
HP	3c	BE	12/10/97		nest	1	66			66	20			20	86			86	9			9				
HF	3c	AW /SH/BE	12/10/97		nest	3	55	63	66	61.3	20	19	20	19.7	75	82	86	81.0	4	6	9	6.3				
					sd	CV	5.7	9.3			0.6	2.9			5.6	6.9			2.5	39.7						
HF	3c	AW /SH	12/10/97		nest	2	55	63		59.0	20	19		19.5	75	82		78.5	4	6		5.0				
					sd	CV	5.7	9.6			0.7	3.6			4.9	6.3			1.4	28.3						
HF	2b	AW	31/10/97	1330	nest	1	25			25	5			5	30			30	2			2				
HF	2b	SH	31/10/97	1305	nest	1	25			25	5			5	30			30	5			5				
HF	2b	BE	31/10/97	1130	nest	1	22			22	4			4	26			26	5			5				
HF	2b	AW /SH/BE	31/10/97		nest	3	25	25	22	24.0	5	5	4	4.7	30	30	26	28.7	2	5	5	4.0				
					sd	CV	1.7	7.2			0.6	12.4			2.3	8.1			1.7	43.3						
HF	2b	AW /SH	31/10/97		nest	2	25	25		25.0	5	5		5.0	30	30		30.0	2	5		3.5				
					sd	CV	0.0	0.0			0.0	0.0			0.0	0.0			2.1	60.6						
REPLICATE BNO COUNTS																										
BRS	10	SH	09/10/97		bno	3								9	9	9	9	4	4	4	4					
					sd	CV									0.0	0.0			0.0	0.0						
BRN	1c	SH	10/10/97		bno	3								17	17	17	17	2	1	2	2					
					sd	CV									0.0	0.0			0.6	34.6						
BRN	2	AW	10/10/97		bno	3								16	15	16	16	0	0	0	0					
					sd	CV									0.6	3.7			0.0	0.0						
BRN	6	AW	10/10/97		bno	3								81	76	75	77	9	8	9	9					
					sd	CV									3.2	4.2			0.6	6.7						
BRN	6	SH	10/10/97		bno	3								79	71	83	78	8	8	7	8					
					sd	CV									6.1	7.9			0.6	7.5						
		AW /SH	10/10/97		bno	6									4.4	5.6	77.5		0.8	9.2	8.2					

Colony	Sector	Observer	Date	Time	Count type	Total birds			mean	comments
						1st	2nd	3rd		
BRN	13	BE	30/10/97	1220	nest				74	
BRN	13	AW /SH/BE	30/10/97		nest	86	83	74	81.0	
							6.2	7.7		
BRN	13	AW /SH	30/10/97		nest	346	346		346.0	
							0.0	0.0		
BRN	14	AW	10/10/97		nest	21			21	
BRN	14	SH	10/10/97		nest	22			22	
BRN	14	BE	11/10/97		nest	23			23	
BRN	14	AW /SH/BE	10/10/97		nest	21	22	23	22.0	
							1.0	4.5		
BRN	14	AW /SH	10/10/97		nest	21	22		21.5	
							0.7	3.3		
HP	3c	AW	12/10/97	1500	nest	79			79	
HP	3c	SH	12/10/97		nest	88			88	
HP	3c	BE	12/10/97		nest	95			95	
HF	3c	AW /SH/BE	12/10/97		nest	79	88	95	87.3	
							8.0	9.2		
HF	3c	AW /SH	12/10/97		nest	79	88		83.5	
							6.4	7.6		
HF	2b	AW	31/10/97	1330	nest	32			32	
HF	2b	SH	31/10/97	1305	nest	35			35	
HF	2b	BE	31/10/97	1130	nest	31			31	
HF	2b	AW /SH/BE	31/10/97		nest	32	35	31	32.7	
							2.1	6.4		
HF	2b	AW /SH	31/10/97		nest	32	35		33.5	
							2.1	6.3		
REPLICATE BNO COUNTS										
BRS	10	SH	09/10/97		bno	13	13	13	13	
							0.0	0.0		
BRN	1c	SH	10/10/97		bno	19	18	19	19	
							0.6	3.1		
BRN	2	AW	10/10/97		bno	16	15	16	16	
							0.6	3.7		
BRN	6	AW	10/10/97		bno	90	84	84	86	
							3.5	4.0		
BRN	6	SH	10/10/97		bno	87	79	90	85	
							5.7	6.7		
		AW /SH	10/10/97		bno		4.2	4.9	85.7	

Colony	Sector	Observer	Date	Time	Count type	Grey-headed mollymawk				On Empty Nest				On Nest				Extra							
						N	On Egg			1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean	1st	2nd	3rd	mean
							1st	2nd	3rd																
BRN	8	SH	10/10/97		bno	3								18	17	18	18	1	1	1	1				
					sd	CV									0.6	3.3			0.0	0.0					
BRN	15	AW	10/10/97		bno	3								79	78	79	79	3	8	6	6				
					sd	CV									0.6	0.7			2.5	44.4					
BRN	15	SH	10/10/97		bno	3								75	83	84	81	3	2	2	2				
					sd	CV									4.9	6.1			0.6	24.7					
		AW /SH	10/10/97		bno	6									3.3	4.2	79.7		2.4	61.2	4.0				
EC	15-bwer	AW	14/10/97		bno	2								62	63		63	6	8		7				
					sd	CV									0.7	1.1			1.4	20.2					
REPLICATE TELESCOPE COUNTS																									
CP	P1	SH	18/10/97	1100	tele	1																			
CP	P1	AW	19/10/97		tele	1																			
CP	P1	SH/AW	19/10/97		tele	2																			
					sd	CV																			
CP	P2	SH	18/10/97		tele	1																			
CP	P2	AW	19/10/97		tele	1																			
CP	P2	SH/AW	19/10/97		tele	2																			
					sd	CV																			
CP	P3	SH	18/10/97		tele	2																			
CP	P3	AW	19/10/97		tele	1																			
CP	P3	SH/AW	19/10/97		tele	3																			
					sd	CV																			
CP	P4	SH	18/10/97		tele	2																			
CP	P4	AW	19/10/97		tele	1																			
CP	P4	SH/AW	19/10/97		tele	3																			
					sd	CV																			
CP	P5	SH	18/10/97		tele	2																			
CP	P5	AW	19/10/97		tele	1																			
CP	P5	SH/AW	8,19/10/1997		tele	3																			
					sd	CV																			
CP	P29	SH	19/10/97		tele	2																			
CP	P29	AW	18/10/97		tele	1																			
CP	P29	SH/AW	8,19/10/1997		tele	3																			
					sd	CV																			
CP	P30	SH	19/10/97		tele	2																			
CP	P30	AW	18/10/97		tele	1																			

Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
BRN	8	SH	10/10/97		bno	19	18	19	19	
							0.6	3.1		
BRN	15	AW	10/10/97		bno	82	86	85	84	
							2.1	2.5		
BRN	15	SH	10/10/97		bno	78	85	86	83	
							4.4	5.3		
		AW /SH	10/10/97		bno		3.1	3.8	83.7	
EC	15-bwer	AW	14/10/97		bno	68	71		70	
							2.1	3.1		
REPLICATE TELESCOPE COUNTS										
CP	P1	SH	18/10/97	1100	tele	3			3	
CP	P1	AW	19/10/97		tele	2			2	
CP	P1	SH/AW	19/10/97		tele	3	2		2.50	
							0.7	28.3		
CP	P2	SH	18/10/97		tele	12			12	
CP	P2	AW	19/10/97		tele	14			14	
CP	P2	SH/AW	19/10/97		tele	12	14		13.00	
							1.4	10.9		
CP	P3	SH	18/10/97		tele	22	22		22	
CP	P3	AW	19/10/97		tele	19			19	
CP	P3	SH/AW	19/10/97		tele	22	22	19	21.00	
							1.7	8.2		
CP	P4	SH	18/10/97		tele	30	29		30	
CP	P4	AW	19/10/97		tele	35			35	
CP	P4	SH/AW	19/10/97		tele	30	29	35	31.33	
							3.2	10.3		
CP	P5	SH	18/10/97		tele	10	11		11	
CP	P5	AW	19/10/97		tele	7			7	
CP	P5	SH/AW	8,19/10/1997		tele	10	11	7	9.33	
							2.1	22.3		
CP	P29	SH	19/10/97		tele	8	8		8	
CP	P29	AW	18/10/97		tele	16			16	
CP	P29	SH/AW	8,19/10/1997		tele	8	8	16	10.67	
							4.6	43.3		
CP	P30	SH	19/10/97		tele	13	15		14	
CP	P30	AW	18/10/97		tele	31			31	



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
CP	P30	SH/AW	8,19/10/1997		tele	13	15	31	19.67	
							9.9	50.2		
CP	P31	SH	19/10/97		tele	29	31		30	
CP	P31	AW	18/10/97		tele	51			51	
CP	P31	SH/AW	8,19/10/1997		tele	29	31	51	37.00	
							12.2	32.9		
CP	P32	SH	19/10/97		tele	18	15		17	
CP	P32	AW	18/10/97		tele	29			29	
CP	P32	SH/AW	8,19/10/1997		tele	18	15	29	20.67	
							7.4	35.7		
METHOD COMPARISONS										
BRN	15	AW	10/10/97		bin	0			0	
BRN	15	SH	10/10/97		bin	78	85	86	83	
BRN	15	SH	10/10/97		ledge	102			102	
BRN	15	SH	10/10/97		nest	98			98	
	% difference	bin/ nest						-15.3		
	% difference	ledge/ nest						4.1		
BRN	15	SH	30/10/97		ledge	94			94	
BRN	15	SH	30/10/97		nest	92			92	
	% difference							2.2		
BRN	6	AW	10/10/97		bin	90	84	84	86	
BRN	6	SH	10/10/97		bin	87	79	90	85	
BRN	6	AW/SH	10/10/97		bin				85.67	
BRN	6	AW/SH	11/10/97		nest		81	83	82	
	% difference							4.5		
HP	1a	AW	12/10/97		bin	41			41	
HP	1a	SH	12/10/97		nest	43			43	
	% difference							-4.7		
HP	1b	AW	12/10/97		bin	38			38	
HP	1b	SH	12/10/97		nest	49			49	
	% difference							-22.4		
HP	1c	AW	12/10/97		bin	81			81	
HP	1c	BE	12/10/97		nest	120			120	



Colony	Sector	Observer	Date	Time	Count type	Total birds				Comments
						1st	2nd	3rd	mean	
	% difference							-32.5		
HP	2a	AW	12/10/97		view	29			29	
HP	2a	AW	12/10/97	1245	nest	28			28	
	% difference							3.6		
HP	3a	AW	12/10/97		view	31			31	
HP	3a	AW	12/10/97		nest	32			32	
	% difference							-3.1		