

Southern Oceans Seabird Study Association Inc.

" Wildlife Research "

ALBATROSS

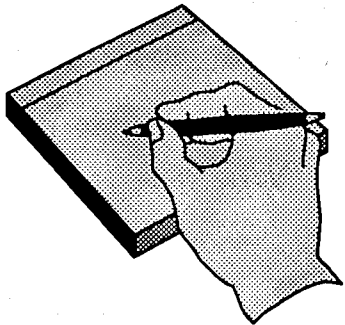
MAP

1997

Green Island, New Zealand
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Editor



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EDITORIAL

The past few months have been very interesting and productive. Peter Prince from the British Antarctic Survey (Summer migrant?) has visited again this season on his way south to Campbell Is N.Z and again on his return to England.

John Warham kindly persuaded the Publishers Academic Press to send SOSSA a copy of his book for review, (thank you John for your vote of confidence and kind gesture). (More about the Book Review on Page. 6).

The upgrade of the Five Islands Shed made possible with the assistance of NSW P&WS and Members of SOSSA has meant that a great deal of further research can be conducted in far less time. This not only allows us to collect more information but more importantly reduces the impact and disturbance of the Islands and it's inhabitants.

A recommendation has been put forward to rename the "Five Island Shed"

"THE CONSETT DAVIS HUT"

In recognition of Consett Davis and of pioneers like him Rodway, Hull, Keast and others that followed; Gibson, Walsh, and Battam. For their insight into the natural history of the Five Islands and their unique natural beauty and biology.

Hopefully the upgrade of the hut will be completed by late May or mid June 1997.

A special thanks to "The Don" for your assistance and advise especially in the very crucial Planning and Construction stages. "You've got to have a plan, so you can change it"!

" SHORE LINES "

Rare beaked whales

Beached at Wanda Beach south of Sydney Friday February 8th 1997.

Species identification not yet confirmed. Skulls taken to the Australian Museum. Identification possible in 2-3 weeks.

April 27th 1997 Wedge-tailed Shearwaters fledging from the Five Islands Nature Reserve, several have been found ashore alive by residents and have been taken into care by the local WIRES group. These are then brought to us for identification. The fledglings are generally in good condition, with weights in most cases at about 360 grams +. Many of them are still very fluffy

with down, though all primary feathers are fully developed.

What is of interest, is why the birds are turning up on highways, main roads and in suburban back yards.

May 6th 1997. A small Dolphin was found dead. On the north of Sandon Point, species not as yet identified.

The remains of the animal have been forwarded to SOSSA's Taxidermist Damien Stanioch. Over the next few months Damien will take a great deal of time and care in preparing a mounted skeleton of the dolphin for public display. Obviously this is a task that would require a very strong constitution!!!. So pleased it's you on the job Damien, and not us!!.

MARINE HABITAT REPORT

Tony Ashby

Can The SOI Predict The Pathway Of Migrating Seabirds?

The El Nino Southern Oscillation (ENSO) is a combination of oceanic and atmospheric events that are sufficiently significant to have an effect on global atmospheric circulation. ENSO can fluctuate between the two extremes of El Nino and La Nina which are each characterised by a set of unique climatic patterns. During the El Nino phase atmospheric pressure is greater over Northern Australia than the SE Pacific and for the La Nina phase the opposite is true. The Southern Oscillation Index (SOI) is the difference in atmospheric pressures at Darwin and Tahiti is an indicator as to when El Nino and La Nina phases might occur.

In an El Nino phase when atmospheric pressure over Northern Australia is greater than that over the South East Pacific the SOI is negative. This particular configuration of atmospheric pressure causes atmospheric circulation in the Central Pacific to flow from West to East. The associated Westerly winds will tend to push transequatorial migratory seabirds to the Eastern boundary of their flight path. So, for example, seabirds flying South from the North Central Pacific to say, South of New Zealand would be expected to pass down the East coast of New Zealand. This tendency could be self exacerbating as El Nino phases can last for a number of years and so returning birds could be pushed East again on crossing the tropics so tending to concentrate birds along the Eastern edge of their range.

Conversely in a La Nina phase when atmospheric pressure over Northern Australia is less than that over the South East Pacific, the SOI is positive. With this pattern of atmospheric pressures there is a tendency

for Easterly winds in the tropical zone of the Central and Western Pacific. There is also an associated southerly flow of air down the east coast of Australia, which at times can be reinforced by the effects of a high pressure cell in the Central Tasman Sea. Again for transequatorial migrants flying from the North Pacific to the Southern Oceans it could well be less demanding, from an energy expenditure point of view to fly down the east coast of Australia.

In October 1996, Mottled Petrels (*Pterodroma inexpectata*) were observed flying south off Southport in southern Queensland. The following day similar numbers of Mottled Petrels were observed off Wollongong on the southern coast of NSW. This event occurred after a 10 month period of positive SOIs which could be interpreted as a weak to moderate La Nina phase, also at that time there was an atmospheric high pressure cell in the southern central Tasman Sea.

KANGAROO ISLAND SOUTH AUSTRALIA.

Brief Report from Richard Swanson

In recent weeks (April May) there have been few (Molly's) smaller albatrosses around, though numbers have increased in the last week or so.. It is interesting to note that many of the Black-browed Albatrosses are of the New Zealand race *D. m. impavida*. Also a few Sooty albatrosses about. Though we have not been able to catch them.

There have been large numbers of Common Dolphins well off shore and good numbers of tuna though quite small.

REQUEST FOR FAIRY TERN RECORDS FROM SOUTH AUSTRALIA

Angela Paltrige

Does anyone have any details of sightings and or breeding records for Fairy Terns (*Sterna nereis*) in South Australia?.

I am currently undertaking a Master of Science degree at Adelaide University, researching aspects of the population status and breeding ecology of the Fairy Tern.

I am keen to hear from anyone who has any information in this regard.

Please contact me on (08)-830 39310 Work or (08)-834 20698 Home or c/- Zoology Dept, University of Adelaide, SOUTH AUSTRALIA. 5005.

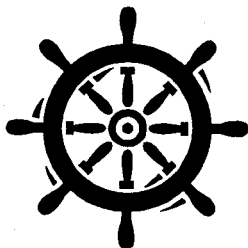
SWEET 'P'

For Those of you that read the wonderful story of Sweet 'P' in the last newsletter. You will be saddened to here that Sweet P was attacked and killed by Foxes on April 12th this year. Sweet P was raised from a fresh deserted egg, by Bronwyn Jarman of WIRES see Albatross No 13.

CAPTAIN CARL'S BIT

Whales (cetaceans fish birds etc).

Boat trips, other than organised bird watching trips.



First sighting of Albatross for the season April 11th 1997 off Wollongong. Black-browed Albatross, 3 race not defined. Yellow nosed Albatross, 1 Shy Albatross, 1-2? Lots of Shearwaters Wedge-tailed & Short-tailed.

The recent beaching of two **Rare Beaked Whales**. At Wanda Beach on Sydney's southern beaches, has created a great deal of interest. At the time of writing, it is not known to which species they belong. The general consensus at present is that they may be Blainsville's Beaked Whales (A very Rare and little known species).

We have contacted the Australian Museum in Sydney and been advised that they have the Heads of the two animals. An adult female with a large Calf the bodies of which have been buried for later exhumation. We are awaiting an answer on which species they are.

May 16th 1997 Wet and miserable, a few albatross about, Yellow-nosed-5, Black-Browed-3 and a couple of Wandering. N.Z.? one BBA was of the race impavida.

Few Great-winged and Providence (Solander's Petrels), Terns and Gannets.

February 13th 1997 Ross Hunter was fishing for Marlin off Port Stephens aboard Broadbill" when he rang SOSSA HQ for advise. He mentioned that he had rescued what he thought may have been a Gould's Petrel. "A beaut little bird", he said. Of type he had never seen before. It was covered in sticky seeds and was unable to fly when he fished it out of the water. A

small bird, not much bigger than a Mother Careys chicken!, Grey above like a Prion, but with a hood and a short stubby bill. White underneath with a sort of a black line running diagonal across the wing.

Glen (Ross's son) took charge of the unfortunate bird. After cleaning all the Pisonia seeds off it, stowed it away to rest undisturbed. Releasing it later in the afternoon close by Cabbage Tree Island. It was last seen flying out of sight towards the island. We were unable to confirm that it was indeed a Gould's Petrel, (*Pterodroma leucoptera*) **An Endangered Species** known only to breed on Cabbage Tree Island off Port Stephens NSW.

Good work lads! Ed.

Five Islands report

The people from the NSWP&W (Southern division), have been very helpful in recent months assisting in the management of the Islands. As have many local residents and the Volunteer Coast Guard at "Hill 60".

This has allowed us to upgrade the "Five Island Hilton," AKA as "THE SHED" to the status of the "**Consett Davis Hut**". In recognition of Consett Davis and of pioneers like him Rodway, Hull, Keast and others that followed; Gibson, Walsh, and Battam. For their insight into the natural nistory of the Five Islands an their unique natural beauty and biology.

This upgrade will hopefully encourage others to take further interest and enable us to conduct further studies into the biology of this remarkable reserve.

Further to this the NSW P&WS in conjunction with SOSSA is currently investigating the possibility of reducing the impact of introduced weed species on burrow nesting seabirds, including Little Penguins and Shearwaters by implementing a long term revegetation program.

The Wollongong City Council (Botanic Gardens) is assisting in the revegetation program by propagating plants from material collected from the islands.

It is through projects such as the "Sooty Oystercatcher Project" (currently funded by the Cumberland Bird Observer's Club and SOSSA), See Albatross newsletter No 13.

We at SOSSA are trying to share with you our experiences and efforts in exploring the realms of the Five Islands Nature Reserve, learning more of it's make up and understanding it's importance to seabirds.

WHAT'S HAPPENING AROUND THE WORLD

by Alexander Watson

IUCN LONGLINING RESOLUTION

The resolution on longlining impacts on seabirds was passed by a convincing margin at the world Conservation Congress of the IUCN in Montreal last October. The resolution called for the development of techniques to eliminate seabird mortalities from longline fisheries, for education and financial support, and for the IUCN Species Survival Commission to collaborate with seabird experts to study the problem.

Only Japan and Panama opposed the resolution. The main objections from these countries were that the resolution was scientifically insupportable, that Japan was already doing as much as it could to protect seabirds, and that resolution should be broadened to include other types of fisheries impacts, other by-catch and other factors implicated in seabird declines.

Japan's late decision to oppose was especially disappointing since it came after earlier signs of agreement. Nevertheless, environment bodies should use the momentum of the IUCN resolution to help bring Japan back into serious negotiations.

The profile of the issue has received a big boost from the resolutions success, which hopefully will lead to stronger political decisions in the future. While not binding on signatories, the IUCN resolution has been endorsed by a prestigious international body which should prove persuasive to governments and regional fisheries institutions that do have statutory authority. It is also noteworthy that some fishing nations, such as Norway and Iceland, agreed to help rather than fight the resolution.

"From Pacific Seabirds Vol 23, no. 2."

A three page review article on by-catch of seabirds in longlines neatly encapsulates the state of knowledge on the topic. Possible conservation measures are listed, including use of streamer lines, night setting of lines, weighting of the lines further, setting underwater, thawing bait (frozen bait tends to float), reduction in discarding/offal disposal (reduces the number of birds following the boat), and fishing away from seabird feeding grounds. These measures need to be tailored to local circumstance, and most need to be used in combination.

The pacific seabird group has established a web site at:

<http://www.nmnh.si.edu/BIRDNET/PacBIRDS/>

MORE FROM AROUND THE GLOBE

by Alexander Watson

To the astonishment of residents of Goose Green (Falkland Islands), three Orcas sighted there last month have still not showed any inclination to depart local, shallow, waters. Interestingly, Killer Whales are adept at moving in shallow waters and are unlikely to be distressed, disorientated or beached. Source: Falkland Conservation Newsletter (20).

Well, we now have a new World Record Holder, the Common Tern *Sterna hirundo*. A juvenile has been found to have travelled over 26,000 kilometres from its nest in Finland to coastal Victoria, out flying the previous longest ever recorded journey of 22,500 kilometres by that of an Artic Tern!. What's more, this tern must have averaged 120 kilometres a day every day of it's life- to complete such a journey. Given that it would not have flown until 2 weeks after banding, and it may have taken some time for the bird to grow strong enough to make the journey, experts believe its actual speed of travel could have averaged over 200 kilometres per day.

Source, Euan Dunn. The Seabird Group Newsletter 77.

LETTERS TO THE EDITOR

Dear Lindsay

If I can persuade the publishers to send SOSSA a copy of this second (and last) of my books on Petrels, would you be interested in reviewing it in 'Albatross'?

It's a heavy tone, literally and they may judge that at

£ 60 they have already sent out enough to ecological and physiological journals, not just to ornithological ones, but I could try.

Kind regards John Warham.

Dear Lindsay,

I noted your Editorial with interest in particular the concern for Wandering Albatrosses breeding on Macquarie Island. However of equal concern is the permit granted for trawl fishing up to 3 nautical miles from Macquarie Island.

Has SOSSA made formal submission against this? Three nautical miles is a mere stones throw as far as feeding seals & seabirds are concerned.

Please keep up the good work, regards to yourself & Janice

Tess Brickhill Mackay QLD.

Dear Tess,
We are very much aware of the of the potential problems associated with the trawl fishery at Macquarie Island. We have raised our objection to this matter with the Australian Fisheries Management Authority (AFMA) and the Department of Primary Industries and Energy (DPIE). As yet we have had no formal reply.
Yours sincerely, **Ed.**

BOOK REVIEW

The Behaviour, Population Biology and Physiology of the Petrels. John Warham

Academic Press London

As a reference works on petrels the present book is equalled only by it's sister ***The Petrels their ecology and breeding systems.*** These two books will become the "Standard" reference to seabird biologists the world over, well into the next century.

From the diminutive "Storm-petrels" to the "Great Albatrosses", the Petrels are a diverse group of birds, totally adapted to life at sea. Each Spring "millions" of Mutton birds migrate down the east coast of Australia. Whilst other species like Macgillivray's Petrel from Fiji is known only from two specimens.

Why is it so?. They are both petrels are they not?.

These are but a few questions, explained by the author about the Petrels, in this his last book

In preparation of this book, John Warham has pooled together his own unequalled life long interest and knowledge, of petrels, together with researchers from around the world. This has resulted in an outstanding publication on the lives and workings of the Petrels.

For those with an interest in seabirds, be they naturalists, observer, or the professional biologist. This book has a wealth of knowledge to offer. In a concise manner, at times detailed with much "Technical Jargon," which can be past over by the lay person, or can be absorbed with "Great Gusto" by the seabird biologists amongst our ranks, with stacks of further references to follow up!.

"Truly an exceptional book from an exceptional author". more than once' refereed to as "Mr Petrel"
Lindsay E. Smith Editor "Albatross"
SOSSA.

"Great stuff !" from (Harry Battam) N.S.W. Albatross Study Group (Division of SOSSA).

"Must Get A Copy !" (Peter Prince) British Antarctic Survey.

VISITORS TO THE SOSSA HILTON

Peter Prince (Passage Migrant Summer Visitor?), called in on his return from a very successful trip to Campbell Island New Zealand. We all look forward to a possible short article in next Albatross newsletter?.

Samya Jabbour, and **Jason Hamill** visiting from Tasmania were a great help this season helping band and collect data on the Wedge-tailed Shearwaters and Little Penguins out on the Five Islands. Thank you!

We look forward to your assistance next season on the Islands. Or, perhaps catching Albatrosses this winter?.

SEA WATCHING or GAME FISHING BOAT TRIPS

Are Run From Wollongong, Sydney & Brisbane
Private Charter enquires are welcome

Scheduled Boat Trips For 1997

SANDRA "K"



22nd June 97, 27th July 97,
24th August 97, 28th September 97,
26th October 97, 23rd November 97.

Email Bookings of Sandra "K"
fishing@wollongong.starway.net.au
or Phone: International to Australia, 61-18-423-555
Within Australia, Mobile: 018-423-555

**Email Bookings for Wollongong or Sydney Boat
Trips Contact Tony Palliser on**
palliser@zip.com.au

**Pelagic Reports Can Be Found On Tony's Home
Page, Website Address:**

http://www.zip.com.au/~palliser
**Data on some of the boat trip reports on the back
page is compliments of**
Tony Palliser's website home page, Thanks Tony!!

Boat Trip Data Sheets is the last page.

**** SIGHTINGS OF SPECIAL INTEREST ****

SYDNEY BOAT TRIP - 12TH APRIL 97

- 1 GREAT SHEARWATER
- 1 WEDGE-TAILED SHEARWATER (Pale Phase).

EYE OF THE WIND

News from Tiger Timbs, Debbie & family with forthcoming trips. It was great to hear from Tiger, Debbie and Emma. Once again they have made us envious of their travels on the High Seas. Visiting beautiful unspoilt islands from the Caribbean to the South Pacific. We look forward to welcoming them back in port.

Janice and I can recommend a trip on the EYE OF THE WIND. A great adventure with good company!. After all there is something in the wind, the creaking of Timber and rope as the sails strain to harness the power of the wind.

NEW MEMBERS

96-97 new memberships only

Humane Society-Michael Kennedy, Nicole Greenwood, Audrey Jones, Gordon Campbell, Additional-Campbell, Bob Simpson, Samya Jabbour, Jason Hamill.

We take this opportunity to welcome the following new members to SOSSA we look forward to seeing or hearing from them in the near future, all members are welcome to attend meetings.

SPONSORS & DONATIONS

Peter Prince, on behalf of the British Antarctic Survey, has sent SOSSA 10.9 Kilo's of photographs of known age Wandering Albatrosses from South Georgia Island in the South Atlantic Ocean. These are on an extended loan and are to be used as a "reference collection".

Many thanks to Peter, and BAS. These will be an invaluable asset in helping us determine the ages and the races of the aggregation of Wandering Albatrosses off the Illawarra coast each Winter.

WIN TELEVISION - (NINE NETWORK)

A proposal has been put to WIN Television to produce a 1 hour television documentary of the natural beauty of the Illawarra. The film is to encompass many of the aspects, including Flora and Fauna with an insight to the environment around us. Visiting the tablelands to the sea, passing through rainforests, open woodland and creeks to the oceans shore's and beyond.

Peter Andrea (Narrator) Tim Roser (Camera) and Janice, Lindsay Smith (Grey-haired Grumpus)!!!.

This even looks like Lindsay

SOSSA



NEXT NEWSLETTER SHOULD BE OUT IN AUGUST

Till Then Take The Time To Smell The Flowers
But Beware Of Hay-fever.

EDITOR SACKED!!

Now I have your attention! If you have something to say then please send it in for the newsletter by mail, fax, disk or Email, to the Editor. This will assist in giving all of us a more interesting read. Ed ☺

Please remember to keep it light and informative, you don't need to be a scientist to be interested in what is happening in our environment.

NEWS FLASH

BBC FILMS - Comes To Town.



BBC Films have confirmed, they are coming to Wollongong this year to film Albatrosses as part of a new film in progress "The Life Of Birds". David Attenborough will be the Narrator & 4 others in the crew. We are looking forward to working with them. We will fill you in on the progress in the next newsletter.

WE ARE ON THE INTERNET

SOSSA EMAIL ADDRESS IS
sossa@ozemail.com.au

We are getting a little better with this new operation.

Please note:

2 Positions Vacant - Volunteers

1. Internet operator.
2. Librarian

NEXT SOSSA MEETING

COMMITTEE MEETING

Saturday 24th May 97
Held At HQ 7.30 pm
10 Jenkins Street, UNANDERRA. N.S.W.

**** NO ** JUNE MEETING**

Due to lack of interest
the June meeting has been cancelled.

Meetings are a great way to meet your fellow members
or to perhaps seek their advise and listen to the some
times "Tall Stories".

AGM

(Annual General Meeting)
HELD ON - SATURDAY

26TH JULY 1997

AT 7.30 PM
10 JENKINS STREET - UNANDERRA - N.S.W.

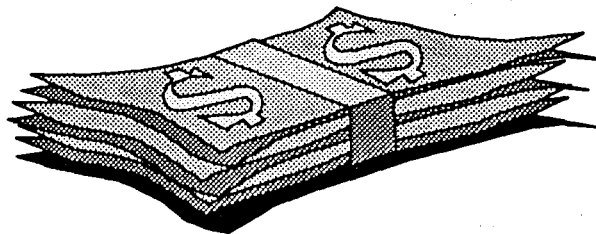
*We Will Provide Tea, Coffee & Biscuits
(If You Want Alcohol For After the meeting
then please bring it with you).*



ENCLOSED

AGM Notice - PROXY VOTING FORM
(please complete, cut off and return).

97-98 membership forms (The Green one).

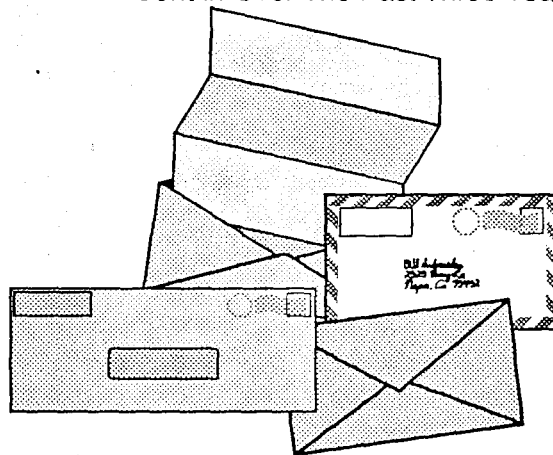


1997-1998

MEMBERSHIP FEES ARE DUE ON JUNE 30TH

PROGRESS - REPORT on APPLICATION FOR TAX DEDUCTIBILITY

These Letters Are All The Applications That Have Been
Sent In Over The Past Three Years.



Still after three years of trying and many phone calls,
we have some good news regarding the application. A
very patient and polite gentleman at Senator Hill's office
has confirmed that Senator Hill has placed his tick of
approval to the SOSSA application and the Treasurer's
Office now have it on their desk.

As this is a very busy time with the BUDGET,
unfortunately Mr Costello hasn't approved our
application at this stage.

SO, if you wish to make a large **DONATION** pending
tax deductibility, and need to know if we have received
the approval from The Treasures Office. Just phone us
here at HQ and hopefully we will be able to confirm our
success for you before the end of the financial year.

BOAT TRIP DATA SHEET - DSOSSA-BTDS-V1.7-04021997

SOSSA - 042 - 716 004 - Fax: 042 - 724 626. PO. Box 142 UNANDERRA NSW 2526

E-mail address: sossa@ozemail.com.au

Seabird Records

1997

WOLLONGONG BRISBANE PORTLAND SYDNEY TASMANIA BUSSELTON

Species	month →	Brisbane		Wollongong		Portland		Sydney		Busselton				
		Feb	Mar	Feb	Mar	Apr	Apr	Feb	Mar	Apr	Jan	Feb	Mar	Apr
Little Penguin, <i>Eudyptula minor</i>				7			1	2	4					
Common Diving Petrel, <i>Pelecanoides urinatrix</i>							1							
Southern Giant-Petrel, <i>Macronectes giganteus</i>														
Northern Giant-Petrel, <i>Macronectes halli</i>														
Southern Fulmar, <i>Fulmarus glacialis</i>														
Cape Petrel, <i>Daption capense</i>														
Blue Petrel, <i>Halobaena caerulea</i>														
Great-winged Petrel, <i>Pterodroma macroptera</i>				50+	15+		10	80+	5					
White-headed Petrel, <i>Pterodroma lessonii</i>											6	52	31	14
Providence Petrel, <i>Pterodroma solandri</i>						4				50+				
Tahiti Petrel, <i>Pseudo bulweria rostrata</i>		9	5	2					2+					
Kermadec Petrel, <i>Pterodroma neglecta</i>														
Herald Petrel, <i>Pterodroma arminjoniana</i>														
Kerguelen Petrel, <i>Lugensa brevirostris</i>												1	4	
Soft-plumaged Petrel, <i>Pterodroma mollis</i>													30	
Mottled Petrel, <i>Pterodroma inexpectata</i>														
Juan Fernandez Petrel, <i>Pterodroma externa</i>														
White-necked Petrel, <i>Pterodroma cervicalis</i>								1						
Black-winged Petrel, <i>Pterodroma nigripennis</i>														
Cook's Petrel, <i>Pterodroma cookii</i>														
Gould's Petrel, <i>Pterodroma leucoptera</i>								3						
White-chinned Petrel, <i>Procellaria aequinoctialis</i>												2	1	
Westland Black Petrel, <i>Procellaria westlandica</i>														
Black Petrel, <i>Procellaria parkinsoni</i>														
Grey Petrel, <i>Procellaria cinereus</i>											1	2		
***GREAT SHEARWATER <i>Puffinus gravis</i>										1				
Streaked Shearwater, <i>Calonectris leucomelas</i>		8			2			1	3			1	1	
Wedge-tailed Shearwater, <i>Puffinus pacificus</i>		286	235	100+	500+	4		200+	500+	200+				
Buller's Shearwater, <i>Puffinus bullerii</i>									1	1				
Flesh-footed Shearwater, <i>Puffinus carneipes</i>		1	1	200+	25+		3	75+	50+	30	9	251	488	3
Pink-footed Shearwater, <i>Puffinus creatopus</i>														
Sooty Shearwater, <i>Puffinus griseus</i>								1				1		
Short-tailed Shearwater, <i>Puffinus tenuirostris</i>				20+	3	25	21	6+	4+	6				
Fluttering Shearwater, <i>Puffinus gavia</i>		3	1	1	20+		20	5+	2					
Hutton's Shearwater, <i>Puffinus huttoni</i>		18	17	10+	2			10+	6+	3				
*Fluttering/Hutton's		18	15							2				
Manx Shearwater, <i>Puffinus puffinus</i>														
Audubon's Shearwater, <i>Puffinus lherminieri</i>														
Little Shearwater, <i>Puffinus assimilis</i>														
Antarctic Prion, <i>Pachyptila desolata</i>														
Slender-billed Prion, <i>Pachyptila belcheri</i>														
Fairy Prion, <i>Pachyptila turtur</i>														
Salvins Prion <i>Pachyptila salvini</i>														
Wandering Albatross, <i>Diomedea exulans</i>														
Royal Albatross, <i>Diomedea epomophora</i>														
Black-browed Albatross, <i>Diomedea melanophrys</i>							30			3				
Shy Albatross, <i>Diomedea cauta</i>							30			1				
Grey-headed Albatross, <i>Diomedea chrysostoma</i>														
Yellow-nosed Albatross, <i>Diomedea chlororhynchus</i>							17							
Buller's Albatross, <i>Diomedea bulleri</i>														
Sooty Albatross, <i>Phoebetria fusca</i>														
Light-mantled Albatross, <i>Phoebetria palpebrata</i>														

1997

Brisbane Wollongong

Portland

Sydney

Busselton

Species	month →		Feb	Mar	Feb	Mar	Apr	Apr	Feb	Mar	Apr	Jan	Feb	Mar	Apr
Wilson's Storm-Petrel, <i>Oceanites oceanicus</i>					1	1	40				50+				
Grey-backed Storm-Petrel, <i>Nereis garrodia</i>			3												
White-faced Storm-Petrel, <i>Pelagodroma marina</i>							13				2				
Black-bellied Storm-Petrel, <i>Fregetta tropica</i>															
White-bellied Storm-Petrel, <i>Fregetta grallaria</i>															
<i>Fregetta</i> spp.															
Australasian Gannet, <i>Morus serrator</i>				1	4	10	4000	3	2	200+	1		28	8	
Brown Booby, <i>Sula leucogaster</i>															
Masked Booby, <i>Sula dactylatra</i>															
Red-tailed Tropicbird, <i>Phaethon rubricauda</i>									1				8	20	
White-tailed Tropicbird, <i>Phaethon lepturus</i>			1						1						
Great Skua, <i>Catharacta skua</i>					1						2			2	
South Polar Skua, <i>Catharacta maccormicki</i>					1										
Arctic Jaeger, <i>Stercorarius parasiticus</i>				2	3	4	7	2	2	2			4	6	
Pomarine Jaeger, <i>Stercorarius pomarinus</i>			1	20+	25+	1		5	10+	6				2	
Long-tailed Jaeger, <i>Stercorarius longicauda</i>					2+				5	1					
Silver Gull, <i>Larus novaehollandiae</i>	36	50	35+	35+	50	6	30+	300+	✓	✓	✓	✓	✓	✓	✓
Kelp Gull, <i>Larus dominicanus</i>			2	11	4										
Sabine's Gull, <i>Larus sabini</i>															
Pacific Gull, <i>Larus pacificus</i>						4									
White-winged Tern, <i>Chlidonias leucoptera</i>															
Common Tern, <i>Sterna hirundo</i>			1					8+	20+						
Roseate Tern, <i>Sterna dougallii</i>															
Arctic Tern, <i>Sterna paradisaea</i>															
White-fronted Tern, <i>Sterna striata</i>															
Black-naped Tern, <i>Sterna sumatrana</i>															
Sooty Tern, <i>Sterna fuscata</i>	3							1							
Bridled Tern, <i>Sterna anaethetus</i>													2		
Crested Tern, <i>Sterna bergii</i>	70	103	3	3	15	5	3	1	✓	✓	✓	✓	✓	✓	✓
Grey Ternlet, <i>Procelsterna cerulea</i>									2						
White Tern, <i>Gygis alba</i>															
Caspian Tern, <i>Sterna caspia</i>												2	1	2	
Little Tern, <i>Sterna albifrons</i>															
Lesser-crested Tern, <i>Sterna bengalensis</i>															
Fairy Tern, <i>Sterna nereis</i>															
Common Noddy, <i>Anous stolidus</i>															
Black Noddy, <i>Anous minutus</i>	1														
Lesser Noddy, <i>Anous tenuirostris</i>															
Little Pied Cormorant, <i>Phalacrocorax melanoleucos</i>			2							✓					
Black-faced Cormorant, <i>Phalacrocorax fuscusens</i>							40								
Pied Cormorant, <i>Phalacrocorax varius</i>	3	1										✓	✓	✓	✓
Little black Cormorant, <i>Phalacrocorax sulcirostris</i>	7	2													
Great Cormorant, <i>Phalacrocorax carbo</i>	1		1								✓				
Australian Pelican, <i>Pelicanus conspicillatus</i>			3								✓				
Great Frigatebird, <i>Fegata minor</i>															
Lesser Frigatebird, <i>Fegata ariel</i>															

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