# SEABIRD RECORDS FROM THE LINDBLAD EXPLORER IN THE SOUTH ATLANTIC, 1976 - 1978

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# INTRODUCTION

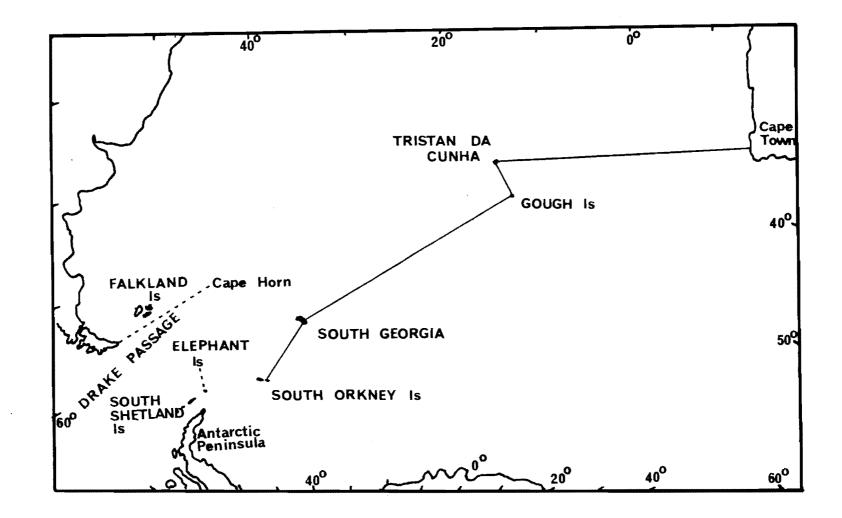
This report documents sightings of seabirds made from M.S. Lindblad Explorer during a voyage from Cape Town to the Antarctic Peninsula (Gramhamland) via Tristan da Cunha and South Georgia, and seven additional crossings of the Drake Passage between the Peninsula and either the Falkland Islands or Cape Horn. No attempt is made to survey the scattered literature.

### METHODS

The main voyages made were Cape Town to Tristan da Cunha (20 - 25 December 1976), Gough Island to South Georgia (27 - 31 December 1976), South Georgia to Laurie Island (South Orkney Islands) (5 -7 January 1977), Laurie Island (South Orkney Islands) to Elephant Island (7 - 8 January 1977), Anvers Island (Antarctic Peninsula) to Cape Horn (16 - 17 January 1977), Falkland Islands to King George Island (South Shetland Islands) (24 - 27 January 1977), Elephant Island to Cape Horn (3 - 4 February 1977), Falkland Islands to Elephant Island (9 - 11 December 1977, 27 - 29 December 1977), and Hope Bay (north tip of Antarctic Peninsula) to Cape Horn (18 - 21 December 1977, 5 - 8 January 1978). Records were kept on most days except when sea conditions made identifications or even counting impossible. Only the briefest summary is presented here.

All observations were made by one of us from the wings of the bridge (eye level c. 11 m above sea level) covering an arc of c.  $180^{\circ}$  including the bow of the ship from c.  $45^{\circ}$  to the ship's The average speed of the boat during the voyage was course. 13 - 14 knots. Only birds detected by the naked eye were counted but identification was confirmed using binoculars. Obviously many small species occurring far from the ship will have been under-recorded. Birds following in the wake were excluded from counts and, whenever possible, birds regularly circling the ship were only counted once. The daily cumulative length of time such systematic observations were made are given in the tables but no single observer watched for more than two hours. A few records of uncommon species seen outside the watches are noted in brackets.

No attempt was made to identify specifically prions *Pachyptila* spp., diving petrels *Pelecanoides* spp. or giant petrels *Macronectes* spp. Few observations were made close to land as we tended to be busy and these are excluded since the species seen included mainly land-based birds, such as gulls *Larus* spp. and American Sheathbill *Chionis alba*, attracted to the ship. An exception is made for transects at the Antarctic Peninsula.





Route of Lindblad Explorer from Cape Town to South Orkney and locations of other places mentioned in the text.

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Counts of the main species seen are given in Tables 1 and 2 and rare species are mentioned below.

# Cape Town - South Orkneys

Observations started on 21 December at 34.75,14.6E and birds seen that day included 18 Sooty Shearwaters *Puffinus griseus*, 53 Cory's Shearwaters *Calonectris diomedea*, 4 Leach's Stormpetrels *Oceanodroma leucorhoa*, phalaropes, mostly Grey Phalaropes *Phalaropus fulicarius*, and small skuas, probably Arctic Skuas *Stercorarius parasiticus*. A single *Sterna* tern was seen the next day. Blackbrowed *Diomedea melanophris* and Shy Albatrosses *D. cauta*, were not identified *en route* to Tristan da Cunha, although both were present just off the African coast.

Foul weather and vast numbers of birds, especially Great Shearwaters Puffinus gravis and prions, prevented counts being made between Tristan da Cunha and Gough Island. South of Gough Island Greyheaded D. chrysostoma and Lightmantled Sooty Albatrosses Phoebetria palpebrata replaced Yellownosed D. chlorohynchos and Sooty Albatrosses P. fusca (last at 50.25,29.2W) and Softplumaged Pterodroma mollis, and Kerguelen Petrels P. brevirostris became abundant with the odd individual seen right up to South Georgia. The only Whiteheaded Petrels Pterodroma lessoni (9), and Greybacked Stormpetrels Garrodia nereis (5), were seen on 29 December between 46S, 21W and 47.5S, 23W. The first giant petrel of the cruise was also seen at the latter point. No Blue Petrels Halobaena caerulea were seen north of South Georgia but they and prions were abundant in the Scotia Sea south of that island.

## Drake Passage

Many fewer species were seen in this area but there was a fairly marked latitudinal division at the Antarctic Convergence. The bulk of the Antarctic Fulmars, Fulmarus glacialoides, Pintado Petrels Daption capense, Blue Petrels and Blackbellied Stormpetrels Fregetta tropica were seen south of the Antarctic Convergence, as were all the Antarctic Petrels Thallassoica One of the latter joined the ship just north of antarctica. Elephant Island and remained with it for at least 7½ hours, another joined at 61.1S and remained for 61 hours as the ship One of these was individually identifiable, moved northwards. the other was noted as being continuously present by a succession of bird photographers and officers of the watch. Sooty Shearwaters, Greyheaded Albatrosses and diving petrels were only seen north of the Antarctic Convergence. Scarce species seen included single Greybacked Stormpetrels south of the Falkland Islands on 25 January and 28 December 1977, a single Royal Albatross D. epomophora off Cape Horn on 4 February 1977 and a Pomarine Skua S. pomarinus at 59.15, 56W, about 20 miles south of the Convergence, on 29 December 1977.

Two transects were also made in the far south from Anvers Island to and from the Antarctic Circle on 13 and 30 January 1977. The first transect was in the open sea to the west of the Biscoe Islands, the second was partly in the open sea and partly in the Grandidier Channel. During a total of 560 minutes' observations,

#### TABLE 1

### THE COMMONER SEABIRDS SEEN ON A VOYAGE FROM CAPE TOWN

TO TRISTAN DA CUNHA, GOUGH ISLAND, SOUTH GEORGIA AND SOUTH ORKNEY ISLANDS

Date:	21 Dec 76	22 Dec 76	23 Dec 76	24 Dec 76	28 Dec 76	29 Dec 76	30 Dec 76	31 Dec 76	6 Jan 7
Minutes observations:	390	320	380	390	370	330	360	70	240
Noon position	34,75 13,3E	35,3% 6,2E	36,0S 0,5W	36,8s 7,3W	43,65 16,1W	47,0S 22,0W	50,5S 29,0W	54,3S 36,6W	57,0S 38,6W
Sea temperature ( <sup>o</sup> C)	16	17	16	13	11	10	4	4	2
Wandering Albatross Diomedea exulans	9	7		4	to	7	5		4
Blackbrowed Albatross D. me <i>lano</i> phris					11	16	27	18	13
Yellownosed Albatross D. <i>chlororhyncho</i> s	2	2		41	1		-		
Greyheaded Albatross D, chrysostoma	6	7	6		19	81	8	1	3
Sooty Albatross Phoebetria fusca					28	7	1 14	2	2
ightmantled Sooty Albatross P. palpebrata	-		•		ĸ	-	14	2	<b>,</b> 2
Albatross unidentified Hant petrels Macromectes spp.	7	1	1		4	4	6	4	35
Pintado petrel Daption capense							8	13	21
llue Petrel Ialobaena caerulea									151
rions Pachyptila s <b>pp.</b>				2	39	23	17	138	570
rey Petrel Procellaria cinereus		5	1	4					
hltechinned Petrel . aequinoctialis	1		2	7	1		151	11	16
reat Shearwater Uffinus gravis	2			3	317	170	152		
Ittle Shearwater 2. assimilis	1		1	1	1	1			
reatwinged Petrel Pterodroma macroptera	42	21	4	2		1			
chlegel's Petrel 9. incerta			1	16	22	13			
erguelen Petrel . brevirostris					63	1	13	(1)	
oftplumaged Petrel 9. mollis	15	5	4	20	139	110	120	2	
nidentified Shearwater Petreis	7	3	1	6					
llson's Stormpetrel ceanites oceanicus	9	1				4	11	28	4
hitebellied Stormpetrel Pregetta grallaria	13	3		3			1		
lackbellled Stormpetrel . <i>tropica</i>						5	6	8	
nidentified Stormpetrel ivingpetrels e <i>lecanoides</i> sp.	3						7	6	4
nalaropes halaropus spp.	14				10	1	1		
ubantarctic Skua atharacta antarctica	3			1					2
omarine Skua tercorarius pomarinus	2	1		5					
vall skuas	8			1					

Date: Minutes observations: Route:	8 Jan 77	16-17 Jan 77 270 2	25 Jan 77 230 3	3-4 Feb 77 370 4	10-12 Dec 77 280 5	19-20 Dec 77 280 6	28-29 Dec 77 270 7	6-7 Jan 78 380 8
	240 1							
Chinstrap Penguin P, antarotica				47	141		2	
Rockhopper Penguln Eudyptes crestatus				7				
Magellanic Penguin Sphenisous mogallanicus			47		12			
Penguin unidentified	2			21		4	9	9
Wandering Albatross Diomedea exulans		12	10	1	8	7	3	5
Blackbrowed Albatross D. melanophris	1	14	41	20	52	20	18	24
ireyheaded Albatross D, <i>chrysostoma</i>		9	4	32	4	2	1	4
ightmantled Sooty Albatross Phoebetria palpebrata	t	(1)		2	1			1
ilant petrels Accronectes spp.	4	16	18	25	11	6	14	12
interctic Fulmer Fulmarue glacialoidee	42			35	26	8	7	
'Intado Petre) Daption capense	112	16		145	74	73	203	40
ntarctic Petrei Halassoica antarctica		(1)		5		(1)		1
lue Petrol ialobaena caerulea		24	1	1		67		59
rions achyptila spp.	7	41	53	2	32		140	12
hitechinned Petrel rocellaria aequinoctialis			1		8	1	3	5
ooty Shearwater uffinus griseus		3	32		15	12	17	35
llson's Stormpetrel ceanites oceanicus	75	3	49	109	47	14	66	32
lackbellled Stormpetrel regetta tropica	21	2	8	49	25	4	21	20
ivingpetrel elecanoides sp.			10			1		1
ubantarctic Sku <b>a</b> atharacta antarctica	1			6		2	6	
ern tezma sp.	4					t <sub>i</sub>		

TABLE 2 BIRDS SEEN DURING EIGHT CROSSINGS OF THE DRAKE PASSAGE

Observations were made as follows:

Route 1 from South Orkney Islands to Elephant Island Route 1 from South Orkney Islands to Elephant Island Route 2 from off Antarctic Peninsula (63,0S, 62,0W) to Cape Horn Route 3 near 555, 59W to 575, 57,5W Route 4 from Gibbs Island (Elephant Island) to Cape Horn Route 5 from south of Faikland Islands (at 545, 60W) to Elephant Island Route 6 from morth of South Shetland Islands to Cape Horn Route 7 from south of Faikland Islands (at 54S, 59,5W) to Elephant Island Route 8 from 61S, 58,5W to Cape Horn Route 8 from 61S, 58,5W to Cape Horn

Records in brackets were made outside the observation periods

birds seen were Adelie Penguin Pygoscelis adeliae (5), Chinstrap Penguin P. antarctica (1), unidentified penguins (4), Blackbrowed Albatross (15 - all during the first transect). Antarctic Fulmar (1 201), Antarctic Petrel (71), Snow Petrel Pagodroma nivea (167), Pintado Petrel (5), Wilson's Stormpetrel (224), Subantarctic Skua Catharacta antarctica (30), Kelp Gull Larus dominicanus (14), and Antarctic Tern Sterna vittata (6), among the highest density of birds seen anywhere during the voyages. Antarctic Fulmar was by far the commonest species this far south; a total of 665 were also seen during 110 minutes' observations slightly further north in the Gerlache Strait.

Although these records add little to the known distribution of any of the species, the transects did cross little known areas. Only by regular recording of and writing up of results by those lucky enough to visit these areas will we ever be able to determine the distribution of southern seabirds let alone the factors which control where they live.

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