

#### CAMBRIDGE LIBRARY COLLECTION

Books of enduring scholarly value

#### **Polar Exploration**

This series includes accounts, by eye-witnesses and contemporaries, of early expeditions to the Arctic and the Antarctic. Huge resources were invested in such endeavours, particularly the search for the North-West Passage, which, if successful, promised enormous strategic and commercial rewards. Cartographers and scientists travelled with many of the expeditions, and their work made important contributions to earth sciences, climatology, botany and zoology. They also brought back anthropological information about the indigenous peoples of the Arctic region and the southern fringes of the American continent. The series further includes dramatic and poignant accounts of the harsh realities of working in extreme conditions and utter isolation in bygone centuries.

#### On the Polar Star in the Arctic Sea

Prince Luigi Amedeo of Savoy, a grandson of King Vittorio Emanuele II of Italy, was well known as a mountaineer and traveller when, in 1899, he organised an expedition to the Arctic, obtaining a steam whaling ship in Oslo which he renamed the *Stella Polare*. His ambition was to reach the highest possible latitude (and possibly the North Pole itself) by careful logistical arrangements, wintering on the ice in Franz Josef Land and using dog-sledges to travel further north. He also intended a scientific survey of the area in which the team passed the winter. His account of the expedition was published in Italian in 1902 and this two-volume English translation by William Le Queux (better known as the author of sensationalist spy and crime novels) appeared in 1903. Volume 1 recounts the genesis and progress of the expedition, including the crew's efforts to free the ice-bound ship using explosives.



Cambridge University Press has long been a pioneer in the reissuing of out-of-print titles from its own backlist, producing digital reprints of books that are still sought after by scholars and students but could not be reprinted economically using traditional technology. The Cambridge Library Collection extends this activity to a wider range of books which are still of importance to researchers and professionals, either for the source material they contain, or as landmarks in the history of their academic discipline.

Drawing from the world-renowned collections in the Cambridge University Library and other partner libraries, and guided by the advice of experts in each subject area, Cambridge University Press is using state-of-the-art scanning machines in its own Printing House to capture the content of each book selected for inclusion. The files are processed to give a consistently clear, crisp image, and the books finished to the high quality standard for which the Press is recognised around the world. The latest print-on-demand technology ensures that the books will remain available indefinitely, and that orders for single or multiple copies can quickly be supplied.

The Cambridge Library Collection brings back to life books of enduring scholarly value (including out-of-copyright works originally issued by other publishers) across a wide range of disciplines in the humanities and social sciences and in science and technology.



# On the *Polar Star* in the Arctic Sea

VOLUME 1

LUIGI AMEDEO DI SAVOIA Translated by William Le Queux





### **CAMBRIDGE**UNIVERSITY PRESS

University Printing House, Cambridge, CB2 8BS, United Kingdom

Cambridge University Press is part of the University of Cambridge. It furthers the University's mission by disseminating knowledge in the pursuit of education, learning and research at the highest international levels of excellence.

> www.cambridge.org Information on this title: www.cambridge.org/9781108072199

© in this compilation Cambridge University Press 2014

This edition first published 1903 This digitally printed version 2014

ISBN 978-1-108-07219-9 Paperback

This book reproduces the text of the original edition. The content and language reflect the beliefs, practices and terminology of their time, and have not been updated.

Cambridge University Press wishes to make clear that the book, unless originally published by Cambridge, is not being republished by, in association or collaboration with, or with the endorsement or approval of, the original publisher or its successors in title.



# ON THE "POLAR STAR" IN THE ARCTIC SEA







### On the "Polar Star"

### IN THE ARCTIC SEA

BY HIS ROYAL HIGHNESS

### LUIGI AMEDEO OF SAVOY

DUKE OF THE ABRUZZI

WITH THE STATEMENTS OF COMMANDER U. CAGNI UPON THE SLEDGE EXPEDITION TO 86° 34′ NORTH, AND OF DR. A. CAVALLI MOLINELLI UPON HIS RETURN TO THE BAY OF TEPLITZ

TRANSLATED BY

### WILLIAM LE QUEUX

IN TWO VOLUMES, WITH 212 ILLUSTRATIONS IN THE TEXT, I 6 FULL-PAGE PHOTOGRAVURE PLATES, 2 PANORAMAS, AND 5 MAPS

Vol. I

LONDON
HUTCHINSON & CO
PATERNOSTER ROW
1903



PRINTED BY
HAZELL, WATSON AND VINEY, LD.,
LONDON AND AYLESBURY.



## TO HER MAJESTY THE QUEEN-MOTHER

WILL YOUR MAJESTY ALLOW ME TO DEDICATE THESE PAGES TO THE MEMORY OF KING HUMBERT, WHOSE LOSS WE DEPLORE? HIS MORAL AND MATERIAL ASSISTANCE ENABLED ME TO CARRY OUT THIS VOYAGE, BY THE RESULTS OF WHICH HE WOULD HAVE BEEN MUCH REJOICED IF THE HAND OF AN ASSASSIN HAD NOT SUDDENLY ENDED HIS LIFE BEFORE THE RETURN OF THE EXPEDITION. THE DEDICATION OF THESE PAGES TO THE MEMORY OF KING HUMBERT IS TO ME A DUTY DICTATED BY GRATITUDE, AND THE EXPRESSION OF MY AFFECTION WHICH HAS BECOME STILL GREATER SINCE HIS DEATH. MAY YOUR MAJESTY BE PLEASED TO ACCEPT THE ASSURANCE OF MY UNSWERVING LOYALTY.

LUIGI DI SAVOIA.





### INTRODUCTION

THE object of the expedition of the *Polar Star* was to sail as far to the north as possible along some coast-line, and then to travel on sledges towards the Pole from the place where the winter had been passed. The Pole was not reached, but the sledge expedition, led by Commander Cagni, pushed on to a latitude which no man had previously attained, and proved that with determination and sturdy men, and a number of well-selected dogs, the frozen Arctic Ocean can actually be crossed to the highest latitude.

The practical use of Polar expeditions has often been discussed. If only the moral advantage to be derived from these expeditions be considered, I believe that it would suffice to compensate for the sacrifices they demand. As men who surmount difficulties in their daily struggles feel themselves strengthened for an encounter with still greater difficulties, so should also a nation feel itself still more encouraged and urged by the success won by its sons, to persevere in striving for its greatness and prosperity.

Our expedition was composed of Italians and Norwegians. The willing and disinterested assistance of Captain Evensen, and of the Norwegians, in navigating in the midst of ice, brought the *Polar Star* to the highest latitude in the north of Europe hitherto attained by a ship following a coast-line. The well-tried courage,



viii

### Introduction

the steadfast perseverance, the moral and physical endurance of every sort of privation and hardship shown by the Italians composing the sledge expedition under Commander Cagni, has won for Italy the first place among the nations which have approached nearest to the Pole.

Italians and Norwegians behaved throughout this voyage as though the crew were composed of one nationality. I had comrades with me, rather than subordinates. I express, therefore, my gratitude towards all, since to their harmonious co-operation is due the success of my expedition; and I express the same gratitude to the memory of the three brave men who perished whilst on the sledge expedition. Honour to those who sacrificed their young lives in pursuit of a noble idea, and may my admiration, as well as that of their comrades on board the *Polar Star* and of the whole civilised world, afford some consolation to their afflicted families.

As conclusion of this introduction, I feel it my duty to thank His Excellency the Italian Minister of Marine, Vice-Admiral Morin, for having allowed me to have a great part of my work executed in the Royal Hydrographical Institution, and all those who have helped to compile the narrative and scientific portions:—Commander Cagni, Dr. Cavalli, A. Alessio, and G. Schoch (Lieutenants in the Royal Navy), Professors Rizzo, Aimonetti, Palazzo, Cappa, Camerano, Salvadori, Pollonera, Giglio-Tos, Nobili, Parona, Mattirolo, Belli, Spezia, Colomba, Piolti, Ermanno Ferrero, Dr. Filippo de Filippi, and the Cavaliere Uffiziale Vittorio Sella.

November, 1902.



### TRANSLATOR'S NOTE

THE temperature is given in Centigrade scale. The miles are geographical miles, or 6,080 feet. The tracks, the bearings, the direction of the winds and currents, are in the true meridian when not otherwise indicated.





## VOL. I

	KŁ	PUR.	ιc	) Ľ	H,K	.H.		l E	DU	KŁ	UI	1 1	HE	A	BK	UZZ	41	
DE	DICA	TION															P	AGE V
						•	•		•	•	•	•	•	•	•	•	•	•
INT	ROD	UCTIO	N	•	•	•	•	•	•	•	•	•	•	•	٠	•	•	vii
$\mathbf{PL}$	AN O	F THI	Е ЕХ	(PE	DITIC	N		IAP	TER	. I							•	3
							СН	Α 'P'	TER	ΤT								
PR.	EPAR	ATION	I AN	ID .	DEPA	RTU	RE	OF.	THE	EX.	PED	1110	)N	•	•	•	•	21
							CH.	AP'I	rer	111								
IN	BAR	ENTZ	SEA	A	ID Q	UEE	N V	ICT	ORIA	SE	A	•	•					53
							CH	AP.	ľER	IV								
IN	BARI	ENTZ	SEA	AN	D Q	JEE	N V	ICT	ORIA	SEA	A (co	ntin	ued)		•		•	73
							OT	T	m Tr D	**								
									TER	. V								
PRI	INCE	RUDO	LPF	I IS	LANI	D .	٠	•	•	•	•	•	•	•	•	•	•	95
							СН	AP	TER	vi								
****																		
WE	ABA	NDON	11.	ie :	НІР	•	٠	•	•	•	•	•	٠	•	•	•	٠	121
							CH.	AP7	ΓER	VI	[							
TH	E LA	ST DA	AYS	OF	LIGI	T												143
			_						хi			-	-	•	•		•	-43



xii Contents

CHAPTER VIII	PAGE
THE POLAR NIGHT AND THE FEASTS OF CHRISTMAS AND THE NEW YEAR	
CHAPTER IX	
THE POLAR NIGHT AND THE PREPARATIONS FOR OUR DEPARTURE	179
CHAPTER X	
DEPARTURE OF THE EXPEDITION TOWARDS THE POLE	197
CHAPTER XI	
LONG AND PAINFUL EXPECTATION OF THE RETURN OF THE FIRST DETACHMENT	219
	219
CHAPTER XII	A
RETURN OF DR. CAVALLI AND COMMANDER CAGNI	241
CHAPTER XIII	
CAPTAIN CAGNI BREAKS THE POLAR RECORD. IS IT IMPOSSIBLE TO REACH THE POLE?	
CHAPTER XIV	
A POLAR SUMMER	289
CHAPTER XV	
WITH CITY TO COM TO THE	301
ON A DEED WILL	
CHAPTER XVI  OUR RETURN TO CAPE FLORA. OUR ARRIVAL IN NORWAY	325
INDEX At End of V	olume



### VOL. I

### LIST OF PLATES

ī.	H.R.H. Luigi Amedeo of Savoy, Duke of									PAGE
2.	The Polar Star						•			32
3.	Capes Forbes, Stephens, and Grant (Alexa	andra	. Land	) .	•		•		•	64
4.	The Polar Star under the first ice pressure									76
5.	The camp in autumn	٠,		•						136
6.	Our camp from the west									160
7.	Returning from hunting						•			184
8.	Position of the ship in the Bay of Teplitz,	in I	March,	1900						224
9.	View of the Bay of Teplitz, July 15th, 19	00								296
10.	We liberate the ship with mines	•								320
II.	Meeting between L'Hertha and the Polar	Star	in the	Bay of	Han	merf	est	•		344
	MA	P								
I.	Position of the mines	•		•	•	•	٠	•	•	308
	TI T TIOTED ACTIONIO	TN		ינדדי	TI	·V	г			
	ILLUSTRATIONS	117	, I	пĿ	1 1	<i>ن</i> ہر۔	T			
1.						<b>ن</b> یم :	I		3	AGE
I.	Commander C. J. Phipps									4
2.	Commander C. J. Phipps Commander W. E. Parry			•						4 5
2. 3·	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Pa	arry,	  1827 .	•						4 5 7
2. 3. 4.	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Pa Commander A. H. Markham	arry,	  1827 .							4 5 7 8
2. 3. 4. 5.	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Pa Commander A. H. Markham Captain J. B. Lockwood	arry,								4 5 7 8 9
2. 3. 4. 5. 6.	Commander C. J. Phipps  Commander W. E. Parry  The attempt to reach the Pole—W. E. Parcommander A. H. Markham  Captain J. B. Lockwood  Professor Fridtjof Nansen	· urry, ·								4 5 7 8 9
2. 3. 4. 5. 6.	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Pa Commander A. H. Markham Captain J. B. Lockwood Professor Fridtjof Nansen Nansen and Johansen in the Arctic, 1895	irry,								4 5 7 8 9 II
2. 3. 4. 5. 6. 7. 8.	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Pa Commander A. H. Markham Captain J. B. Lockwood Professor Fridtjof Nansen Nansen and Johansen in the Arctic, 1895 To the unknown goal	irry,								4 5 7 8 9 11 13
2. 3. 4. 5. 6. 7. 8.	Commander C. J. Phipps  Commander W. E. Parry  The attempt to reach the Pole—W. E. Parcommander A. H. Markham  Captain J. B. Lockwood  Professor Fridtjof Nansen  Nansen and Johansen in the Arctic, 1895  To the unknown goal  Leaving Europe									4 5 7 8 9 11 13 17 23
2. 3. 4. 5. 6. 7. 8. 9.	Commander C. J. Phipps  Commander W. E. Parry  The attempt to reach the Pole—W. E. Parcommander A. H. Markham  Captain J. B. Lockwood  Professor Fridtjof Nansen  Nansen and Johansen in the Arctic, 1895  To the unknown goal  Leaving Europe									4 5 7 8 9 11 13 17 23 25
2. 3. 4. 5. 6. 7. 8. 9.	Commander C. J. Phipps  Commander W. E. Parry  The attempt to reach the Pole—W. E. Parry  Commander A. H. Markham  Captain J. B. Lockwood  Professor Fridtjof Nansen  Nansen and Johansen in the Arctic, 1895  To the unknown goal  Leaving Europe  The Polar Star at Larvik  Longitudinal section of the Polar Star									4 5 7 8 9 11 13 17 23 25 26
2. 3. 4. 5. 6. 7. 8. 9. 110. 111.	Commander C. J. Phipps									4 5 7 8 9 11 13 17 23 25 26 26
2. 3. 4. 5. 6. 7. 8. 9. 110. 111. 112.	Commander C. J. Phipps									4 5 7 8 9 11 13 17 23 25 26 26 27
2. 3· 4· 5· 6. 7· 8. 9· 110. 111. 112. 113.	Commander C. J. Phipps									4 5 7 8 9 11 13 17 23 25 26 26
2. 3. 4. 5. 6. 7. 8. 9. 110. 111. 112. 113. 114.	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Parry Commander A. H. Markham Captain J. B. Lockwood Professor Fridtjof Nansen Nansen and Johansen in the Arctic, 1895 To the unknown goal Leaving Europe The Polar Star at Larvik Longitudinal section of the Polar Star Plan of the deck Transverse section of the officers' quarters The crew of the Polar Star In the port of Christiania									4 5 7 8 9 11 13 17 23 25 26 26 27
2. 3· 4· 5· 6. 7· 8. 9· 110. 111. 113. 114. 115. 116.	Commander C. J. Phipps									4 5 7 8 9 11 13 17 23 25 26 26 27 29
2. 3. 4. 5. 6. 7. 8. 9. 110. 111. 112. 113. 114.	Commander C. J. Phipps Commander W. E. Parry The attempt to reach the Pole—W. E. Parry Commander A. H. Markham Captain J. B. Lockwood Professor Fridtjof Nansen Nansen and Johansen in the Arctic, 1895 To the unknown goal Leaving Europe The Polar Star at Larvik Longitudinal section of the Polar Star Plan of the deck Transverse section of the officers' quarters The crew of the Polar Star In the port of Christiania									4 5 7 8 9 II 13 17 23 25 26 26 27 29 3I



### xiv Illustrations in the Text

. 0	At Calambal		P	AGE
18.	At Solombol	•	•	35
19.	The kennels at Archangel	•	•	37
20.	Alexander Ivanov Trontheim	•	•	39
21.	Siberian dogs	•	•	41
22.	Kennels on board	•	•	43
23.	Embarkation of the dogs on the <i>Polar Star</i>	•	•	45
24.	The last farewell	•	•	47
25. -C	Puzzled!	•	•	54
26.	The Polar Star meets the first ice (looking forward)	•	•	55
27. -9	The Polar Star meets the first ice (looking aft)	•	•	57
28.	Cape Flora and Cape Gertrude, on Northbrook Island: seen from the south	•	•	59 61
29.	The huts left by Jackson's expedition.	•	•	
30.	In Nightingale Sound—Bell, Mabel, and Bruce Islands	•	•	63
31.	A walrus hoisted on board	•	•	65 65
3 <b>2.</b>	Bates Sound—Cape Flora in the distance	•	•	67
33.	In open water	•	•	73
34•	The ice to the north of Bruce Island.	•	•	75
35.	The Polar Star nipped by the ice (side view)	•	•	77
36.	The Polar Star nipped by the ice (seen from the stern)	•	•	79
37.	The dogs on the ice	•	•	81
38.	Our comrades come back to the ship	•	•	83
39.	The first Arctic bear	•	•	85
40.	Dramatis personæ	•	•	87
41.	We force our way through the ice	•	•	88
42.	Waiting for clear weather near Maria Elizabeth Island	•	•	89
43.	Cape Fligely, from the north-west	•	•	91
44.	In training	•	•	95
45.	Cape Fligely, seen from the north, near the coast	•	•	97
46.	Disembarking in the Bay of Teplitz	•	`.	99
47.	Cape Germania, seen from the north-east	٠	٠	101
48.	Cape Säulen, seen from the south-east	•	•	103
49.	The ice-field in Teplitz Bay, with the channel cut in it by the Polar Star	•	•	104
50.	The ship in Teplitz Bay	•	٠	105
51.	A Polar bear	•	٠	107
52.	The end of the chase	٠	٠	109
53.	Kennels on the ice	•	•	111
54•	Bringing the dogs into the kennels	•	•	113
55.	Training the dogs.	•	•	114
56.	An excursion on Prince Rudolph Island	•	٠	115
57.	Typical ice-cliff of the coast of Prince Rudolph Island	٠	•	117
58.	Our position: a distant view	•	•	123
59.	Landing the stores while the ship is nipped by the ice	٠	•	125
60.	One of the two field-tents which formed the interior of the hut	•		127
61.	How the hut was constructed	•	٠	129
62.	The Polar Star after the ice pressure			131
63.	Vertical section of the hut			133
64.	Plan of the hut			133
65.	Framework of the hut			133
66.	The kennels being dragged up on the beach			134
67.	The entrance to the tent			136



	Illustrations in	i the	Text			$\mathbf{X}\mathbf{V}$
68.	Ivory gulls					PAGE
69.	Under repair	• •	• •	• •	•	. 144
70.	T 12 3 1				•	. 145
71.	(C) 1 1 1 1 1				•	. 146
72.	The ship abandoned		• •	•	•	. 147
73.	Interior of the tent				•	. 149
73· 74·	The kennels during the summer		• •	•	•	. 150
75·	The kennels after the snowstorm			•	:	. 151
76.	The cage for the instruments during summer				•	. 152
77·	The cage protected from the drift by canvas	careenc			•	. 153
78.	The first fall of snow	sciecus .		• •	•	. 155
79.	A view forward	• •			•	. 161
79. 80.		• •	• •	• •	•	. 163
81.			• •		•	. 166
82.	****				•	. 169
83.		• •		• •	•	. 171
84.		• •	• •	• •	•	. 171
•				•	•	. 181
85. 86.	Dr. Cavalli prepares the rations	• •		• •	•	
	A kayak	• •			•	. 183
87. 88.	A sledge			• •	•	. 183
	A classica has	• •			•	. 185
89.	A sleeping-bag				•	. 186
90.	Lamp and cooking-stove		• •		•	. 187
91.	The door of the tent after the storm .				•	. 189
92.	The ship after the storm			• •	•	. 191
93•	The porch of the hut buried in snow.				•	. 192
94.	A typical team				•	. 199
95.	Entrance to our tent				•	. 201
96.	The magnetic box				•	. 203
97.	Dogs in front of the tent			• •	•	. 205
98.	A group of our friends				•	. 207
99.					•	. 209
100.	The sledges on their way to Cape Rohlfs .	• •		• •	•	. 211
101.	,				•	. 212
102.	The sledge expedition crossing the pack .	• •			•	. 213
103.	Grasso, the dog given by Dr. Nansen.				•	. 214
104.	A prize			• •	•	. 221
105.				-	•	. 223
106.	- <b>L</b>				•	. 227
107.	Cape Fligely, as seen from the highest point			• •	•	. 229
108.	The hut at Cape Fligely		• •		•	. 231
109.	The Polar pack				•	. 233
110.	Skinning a bear			• •	•	- 235
III.				• •	•	. 243
112.	Lieutenant Querini, the engineer Stökken, an	nd the gui	ae Ollier		•	. 245
113.	The Norwegian Hans			• •	•	. 247
114.	A Polar bear				•	. 249
115.	Near Cape Fligely				•	. 251
116.	The ship and hut, seen from the west .				•	. 253
117.	Rocks of Cape Säulen					. 255



### xvi Illustrations in the Text

_													PAGE
118	Another view of the rocks .	•	•	•	•	•	•	•	•	•	٠	•	257
119.	8		•	•	٠	•	•	•	•	•	٠	•	259
I 20.	•	•	•	•	٠	•	•	•	•	•	•	•	265
121.	A friendly pair	•	•			•			•	•	•	٠	271
122.	Equipment of the third detachme										•	٠	273
123.	The names by which we called t	hem						•	•	•	•	٠	274
124.	Messicano	•	•				•			•		•	275
125.	Sacripante and Teresa .										•	•	277
126.	Moro								-	, .		•	278
127.	Piccin											•	279
128.	Orlando												281
129.	Pantalone											•	283
130.	Dogs brought back to Italy.												284
131.	Hard at work												290
132.	The hut during summer .												291
133.	<b>600</b>												292
134.	Commander Cagni taking observa	ation	s										293
135.	The magnetic box fallen in the v												294
136.	· ·												295
137.	Out shooting												296
138.	Bringing the magnetic box to lar	nd											297
139.	The return from Cape Auk.												297
140.	A 1.												302
141.	Position of the ship												303
142.													305
143.	The canal opening at the poop												307
144.	Gull (Stercorarius parasiticus)					•							309
145.	Return from shooting					į							311
146.	Laying the mines in the ice	•	•	•	Ĭ.	i.	i						312
147.	A mirror of water alongside	•			·	Ī	·	•	·	-			313
148.	Getting out a piece of ice.			·	·	·	•	•	·	Ī	·		314
149.	The Polar Star righting herself	·	•	•	•		Ť	•	•	•	•	•	315
150.	Making a canal to liberate the sl	hin	•	•		•	•	•	•	•	•	•	317
151.	Ready to return		•	•	•	•	•	•	•	•	•	•	
152.	Leaving the Bay of Teplitz.	:	•	•	•	•	•	•	•	•	•	•	319
153.	One of our difficulties			•	•	•	•	•	•	•	•	٠	321
	Our last glimpse of Cape Säulen		•	•	•	•	•	•	•	•	•	•	327
154.	Cape Auk and Cape Brorok		•	•	•	•	•	•	•	•	٠	•	328
155.	The ice in British Channel.		•	•	•	•	•	•	•	•	•	•	329
156.		•	•	•	•	•	•	•	•	•	•	•	330
157.		•	•	•	•	•	•	•	٠	•	•	•	331
158.	Against an iceberg The drift in British Channel	•	•	•	•	٠	•	•	•	•	•	•	333
159.		•		•	•	•	•	•	•	•	•	٠	335
160.	The dogs on their way home	•	•	•	•	٠	•	٠	•	•	•	٠	337
161.	On our way towards Europe	•	٠	•	٠	•	•	•	•	•	•	•	339
162.	Our arrival at Tromsö											_	2/12