

Contents

Foreword	iii
The end	ix
1 Introduction	1
Some stylistic conventions	5
Disclaimer	6
2 The conservation value and challenge of islands	7
3 The stage – Christmas Island	13
Setting	13
Human history and governance	14
Christmas Island – biodiversity and ecology	39
4 The unravelling of the Christmas Island environment – change, loss and response	51
Early changes	51
Conflict – mining and conservation response	58
Invasive species, and their management	66
Hunting	82
National Park and conservation responses	84
Island life and ecological sustainability	86
The fate of Christmas Island nature	87
5 The Christmas Island pipistrelle	93
Historical record	93
Description and ecology	95
Scientific record	98

Taxonomic position	100
The pattern of decline	102
Lazarus?	115
6 Why did the pipistrelle disappear? – the drivers of extinction	117
The characteristics of extinctions	117
Parallels – similar stories	118
The search for cause of the pipistrelle's decline	121
Denouement	139
7 Why did the pipistrelle disappear? – management and policy responses and failings	143
Moral and ethical framework	143
Policy and legislation	145
What was done – threatened species listing	147
What was done – the recovery plan	148
The expendability of species – triage and landscape-scale conservation	150
The management response – the environment department (and its parks service component)	158
What was done – the research	161
Captive breeding – emergency response	165
Foundation (external) drivers – the momentum of history and use of the island	169
The logistical impediment	173
What was done – community support and lobbying	174
Extinction is a natural process	176
Cry wolf! – they don't really go extinct do they?	176
Some things that went well for the pipistrelle	177
A summary of the failings	177
Culpability	178

8	Personal perspectives, responses and responsibilities	181
	David James	182
	Bob Debus	187
	Lindy Lumsden	188
	Peter Garrett	196
	Greg Richards	198
	Barry Traill	202
	Brian Lacy	204
	Chris Tidemann	205
	Peter Cochrane	208
	Alistair Graham	210
9	Lessons and generalisations	219
	Island future	219
	Progressing the pipistrelle's legacy	221
	Lessons for the conservation of biodiversity elsewhere	222
	Meditation	226
	Acknowledgements	229
	Endnotes	231
	References	235
	Index	259