

# CONTENTS

<b>Abstract</b> .....	i
<b>List of Figures</b> .....	v
<b>List of Tables</b> .....	vi
<b>Acknowledgements</b> .....	vii
<b>Definitions</b> .....	ix
<b>Use of archaic terms</b> .....	xi
<b>Conventions</b> .....	xi

## PART ONE: BACKGROUND

<b>CHAPTER 1: INTRODUCTION</b> .....	1
The Tasmanian Paradox .....	1
Another Tasmanian Paradox .....	1
Relevant Issues .....	2
Ethnography .....	3
Archaeology .....	3
Environment .....	5
Morphology .....	5
Physiology .....	6
<b>CHAPTER 2: FIRST IMPRESSIONS</b> .....	8
Tasmania .....	8
Clothing .....	8
Shelter .....	9
Mainland .....	11
Clothing .....	11
Shelter .....	13
<b>CHAPTER 3: THERMAL ISSUES</b> .....	15
Cold tolerance and clothing requirements .....	15
Australian Aborigines .....	15
Wind chill .....	16
Clothing requirements .....	16
Simple vs. complex clothes .....	18
Morphological cold adaptations .....	19
Aboriginal morphology .....	19
Birdsell's data .....	20
Tasmanian Aborigines .....	21
Tasmanian morphology and the clothing paradox .....	22
<b>CHAPTER 4: RATIONALE</b> .....	23
Local context .....	23
Wider context .....	23
Strategy: three studies .....	24
Ethnography .....	24
Morphology .....	24
Prehistory .....	24

## PART TWO: STUDIES

### STUDY 1: ETHNOGRAPHY

<b>CHAPTER 5: INTRODUCTION AND METHOD</b> .....	25
Introduction .....	25
Aims .....	26
Materials .....	26

Ethnographic records	26
Written	26
Pictorial	27
Anthropological accounts	28
The Data Base	28
Clothing	28
Shelter	30
Morphology	30
Meteorology	30
Method	31
Null Hypotheses	31
Data limitations and screening	31
Testing for temporal trends	31
Trends by decade	31
Pre-settlement vs. settlement eras	31
Testing for thermal trends	32
Testing for disconformity in Tasmania	32
Statistical analyses	33
Chi-square Tests	33
<b>CHAPTER 6: RESULTS AND DISCUSSION</b>	<b>35</b>
Results	35
Data examination	35
Excluded cases	35
Geographical coverage	36
Temporal trends	37
Analyses	38
Clothing	38
Shelter	43
Morphology	43
Discussion	45
Conclusions	49

## STUDY 2: MORPHOLOGY

<b>CHAPTER 7: INTRODUCTION AND METHOD</b>	<b>50</b>
Introduction	50
Aims	52
Materials and Methods	52
Morphological data	52
Environmental data	52
Statistical analyses	54
<b>CHAPTER 8: RESULTS AND DISCUSSION</b>	<b>56</b>
Results	56
Correlation coefficients	56
Factor analyses	60
Osteological analyses	63
Discussion	65
Conclusions	68

## STUDY 3: PREHISTORY

<b>CHAPTER 9: INTRODUCTION AND METHOD</b>	<b>69</b>
Introduction	69
The southwest surprise	69
Ethnographic evidence	71
Human cold tolerance	72
Wind chill	72

Thermal environments	72
Present	72
Past	73
Geomorphology	73
Isotope geochemistry	74
Palynology	74
Sea level studies	75
Summary of palaeoenvironmental data	75
Aims	76
Materials	76
Method	77
<b>CHAPTER 10: RESULTS AND DISCUSSION</b>	<b>78</b>
Results	78
Discussion	80

### **PART THREE: DISCUSSION**

<b>CHAPTER 11: SUMMARY AND LIMITATIONS</b>	<b>86</b>
Summary	86
Limitations	86
Study 1: ethnography	86
Study 2: morphology	88
Study 3: prehistory	89
<b>CHAPTER 12: FURTHER ISSUES</b>	<b>94</b>
Ethnography: Tierra del Fuego – another paradox?	94
Morphology: other adaptive Tasmanian features	95
Prehistory	96
Bone tools	96
Stone tools	97
Faunal targeting	98
Dietary requirements	98
Animal skins	99
Tasmania and ice age Europe	99
<b>CHAPTER 13: CONCLUSIONS</b>	<b>102</b>
<b>REFERENCES</b>	<b>103</b>

### **APPENDICES** ..... [on CD]

<b>APPENDIX A1: ETHNOGRAPHIC DATA BASE</b>	<b>A001</b>
List of ethnographic cases	A003
1.1 Tasmania Pre-1803	A013
1.2 Tasmania Post-1803	A053
1.3 Mainland Pre-1788	A108
1.4 Mainland Post-1788	A147
<b>APPENDIX A2: BIRDSSELL RE-ANALYSIS – Correlation results</b>	<b>A463</b>
2.1 Morphological variables	A464
2.2 Dental variables	A475
2.3 Serological variables	A479