Index

Adams, W.M. 19
adventure tourism 4
African penguin (Spheniscus demersus) 358
Aizen, I. 157
albatross see royal albatross
Alcock, A. 300
Amarasooriya, K. 313, 314, 319, 322
Antarctic Treaty 134–5, 151, 152, 154, 461–3
  consensus approach to Antarctic Treaty System 158
Protocol on Environmental Protection (Madrid Protocol) 134, 153
Antarctica and Antarctic tourism 25, 46, 128–76, 461–3
  background on tourism in Antarctica and environmental concerns 129–35
  costs of cruises and nationality of tourists 128–9, 131–2, 139–40
  environmental issues 133–4, 156
  growth in tourism 37, 128, 129–30
IAATO and environmental conduct 135, 155, 158
  location of visits by tourists 130–31, 155
  types of Antarctic tourism 130
  bequest value 150
  environmental issues 133–4, 155–7
  attitudes of Antarctic tourists to conservation 145–7, 157–8
  environmental impact assessments (EIAs) 134
  fragile ecosystems in sub-Antarctic islands, support for 15
  non-native species, introduction of 133–4
  oil pollution 133, 156
  opinions of tourists about Antarctica environmental issues 147–53, 157
  scientific activities 133, 156
  tourism, adverse impact of 133–4, 156
  ‘tourists’ role in nature conservation 156–7, 158
  existence value 148
Antarctic journey and administration of the survey 135–6
  conclusions 155–8
  importance to tourists of viewing Antarctic wildlife/satisfaction 141–5
  opinions of respondents about Antarctica environmental issues 147–53
  pre- and post-visit knowledge of Antarctica 140–41
  socio-economic profiles of respondents and cost of journey 136–40
  summary of survey results 153–5
  survey form 161–76
  survey purposes 128–9
  valuation of cruise feature/changes in attitudes to conservation 145–7
Arctic tourism 37, 39
Arianoutsou, M. 55–6
Audubon Society 19
Australia
  Antarctica 134, 155–6
  butterfly-viewing 402, 404
  crocodile-watching 53
  glow-worm viewing 404
  Gondwana Rainforests 70, 96–9, 102, 104, 106, 115, 177–8
Jourama Falls, decisions to visit see rationality of tourists
Lamington National Park see Lamington National Park
National Ecotourism Strategy 9 national parks entry fees see under Lamington National Park see also user-pays principle and conservation in national parks
NGOs 19, 255, 270–71, 273 Mareeba Wetland Foundation see Mareeba Wetland Foundation case study non-profit organisations as stakeholders 19
open zoos/modified surrounding 6, 7 penguin based tourism 36 concerns about 55 little penguins see under little penguins yellow-eyed penguins see under yellow-eyed penguins (Megadyptes antipodes) seabirds 355–7 barriers to use as nature-based tourism resource 356 seabird-based tourism 357–63 turtle based tourism 24, 35 Mon Repos turtle rookery see Mon Repos Conservation Park restrictions on tourist numbers 52 whale-watching tourism 35 commercial whaling moratorium 347–8 concerns about 55 conservation values 344–6 economic benefits resulting from Hervey Bay whale-watching tourism 342–4 growth in 38–9, 339–41 Hervey Bay survey methodology 342 regulation 341 see also whales/whale-watching World Heritage properties 96–100 Aboriginal heritage 97 Lamington National Park see Lamington National Park listed properties 99 location of listed properties 98 variations in nature of listed properties 96–7 see also World Heritage listing of Australian natural sites Australian flatback turtle (Natalia depressa) 311 Australian Nature Conservancy 19, 255 Australian Wildlife 156–7 Australian Wildlife Conservancy 217 Australia’s World Heritage (Thorsell/Duffy) 104–5 Austrian School of Economics 226
specialists and generalists 106–7, 357–8

tourist attraction 71, 179–80, 182–3, 185–90

endangered birds
birds of prey 18
Gouldian finch 258, 267, 271
feeding wild birds 192
opposition to 192–3, 202–3
penguins see penguins
seabirds see seabirds
as tourist attraction 71, 185, 188, 193, 197, 203–4, 228, 232
wild birds being mostly diurnal, importance of 195

Birdlife International 19
Birds Australia 19, 255
Birtles, A. 39
Bishop, R.C. 44, 365–6
Blangy, J. 307
Borneo 12–13
bounded rationality
influencing tourists’ destination decisions see under rationality of tourists
and neoclassical economics see under neoclassical economics
Bowles, J. 155, 242
Boyle, S.A. 55
breeding in captivity 6
Briassoulis, H. 12
Broadus, J.M. 194
brush turkeys (Alectura lathami) 192
Bryan, H. 36
Buchanan, J. 274
Buckley, R. 39, 179
Budowski, G. 3, 8, 195
Bull, A.O. 136–7
Bush Heritage Trust 19, 255
and Mareeba Wetland Foundation 258
Bustard, R. 293–4
Butler, R.W. 36, 389
butterflies
breeding in captivity 6
lifecycle 405
tourism 402–4

Canada
seabird tourism 358

whale-watching 37–8
Carr, L. 114, 116
Carver, E. 38
cats
feral cats 17, 355, 357, 382
as threat to little penguins 371
introduced species 382
Caudill, J. 38
Cayman Islands
closed-cycle hatcheries 312, 314
justification for 319
farming green turtles 288
Ceballos-Lascurain, Hector 7, 9, 307
Cesar, H. 443
cetaceans
dolphins see dolphins / dolphin-watching
growth in cetacean-watching 337, 340
harvesting 337, 348, 473
as transboundary resource 337–8
whales see whales / whale-watching
Chan, E.H. 314
charismatic species 8–9, 305
China 104, 107, 121–2
insect-watching 404
Clawson, M. 113
Coase, R. H. 52–3
communal land/ownership 19
economic benefits of wildlife tourism 19–20
conservation of nature
Antarctica
attitudes of Antarctic tourists to conservation 145–7, 157–8
fragile ecosystems in sub-Antarctic islands, support for 15
opinions of tourists about Antarctica environmental issues 147–53, 157
scientific activities 133, 156
tourism, adverse impact of 133–4, 156
‘tourists’ role in nature conservation 156–7, 158
biases towards more charismatic species 8–9, 305
and ecotourism see ecotourism and sustainable tourism
Nature-based tourism and conservation

effects of tourism/nature-based tourism 3, 4
Antarctica, adverse impact of tourism on 133–4, 156
implications of size of economic benefits see under nature-based tourism
leading to biases in biodiversity conservation 8
leading to greater conservation of wild biodiversity 8
tourist/visitor interactions with wildlife, effect of 194–5
income from wildlife tourism inducing landowners to conserve optimally 394–6
mahogany glider, attitudes to conservation of 233–4
mobility of wildlife affecting economics of conservation 18
NGOs’ role 255, 270–71
see also Mareeba Wetland Foundation case study
overview see overview of nature-based tourism and conservation
penguins
factors influencing willingness to pay for research/conservation 372–6
monetary and non-monetary conservation benefits 368–70
other conservation benefits 370–72
political factors in nature
conservation 273–4
political pressure for marine reserve parks/whale conservation 346, 348
political pressure for sea turtle conservation 294, 303–4, 307
potential contribution of non-consumptive tourism to nature conservation 10–12
see also tourism as a force for conserving sea turtles under natural conditions
private ownership of wildlife 318
public attitudes to conservation attitudes of Antarctic tourists to conservation 145–7, 157–8
attitudes to conservation of mahogany glider 233–4
changed conservation attitudes/behaviours of Mon Repos tourists 300–303
consumptive use see consumptive use
societies becoming more supportive of nature 293–4
sea turtles
changed conservation attitudes/behaviours of Mon Repos tourists 300–303
generation/maintenance of political pressure for turtle conservation 303–4
open-cycle hatcheries see role of open-cycle hatcheries and tourism in sea
turtle conservation
whales, willingness to pay for conservation of 337–8, 344–6
World Heritage listing as conservation strategy: institutional/political aspects 119–20
consumptive use
cetaceans 337, 348, 473
consumptive direct use 118, 436
use by indigenous populations 293, 294
consumptive use of wildlife as a positive force for their survival 288
public opposition to use of endangered species 288, 289
sea turtles/eggs see under sea/marine turtles
tourism activities as consumptive 330
whale-harvesting see under whales/whale-watching
consumptive wildlife tourism 6, 7
incidental destruction caused by 32
negative effects of 18
open access for recreational hunting endangering species 12
opportunity costs 32
opposition to 12
positive effects of 11–12
resources for both consumptive and
non-consumptive purposes 18
complicated when a transboundary resource 18
Convention Concerning the Protection of World Cultural and Natural Heritage 95–6, 459–61
advantages of listing 97–9, 119–20
as attractor for visitors 185–8
in Australia see World Heritage listing of Australian natural sites
criteria for acceptance for World Heritage listing 95
other factors influencing listing 100, 109
measuring economic value of World Heritage listing of natural areas 109–12
environmental damage caused by visitors 111
further factors encouraging visits to sites 111–12
marginal cost pricing 110–11
welfare economics valuation theory 109–12
nominations by States parties to the Convention 97
properties listed for natural reasons 96
substitution and complementary effects of listing 107–8
tourism potential of properties incidental to listing 97, 99
as tourist attractions 99
variations in visitor numbers as a result of World Heritage listing 100–105, 185–9
greater percentage increase in numbers visiting non-listed sites 101–4, 105
increase in visitor numbers to sites close to major cities 104
World Heritage listing as conservation strategy: institutional/political aspects 119–20
Cooperative Research Centre for Sustainable Tourism 156
crimson rosellas (Platycerus elegans) 192
crocodiles
crocodile-watching 53
farmed species 6, 287–8
limited support for survival 287
restoration of freshwater crocodiles 267
Davis, D. 48, 52
Dean, J.M. 56
Dearden, P. 33, 36, 53–4
destination decisions see rationality of tourists
developing countries
advantages of World Heritage listing of properties 97–9
conservation projects, economic effect 118
sea turtle eggs
as common property resource 310, 318
hatcheries, development of 311–12
increasing prevalence of hatcheries 332
problem of collecting eggs from the wild for consumption 310, 311–12
survival of sea turtles dependent on management of hatcheries 332
two-tiers entrance fees for national parks and for tourists 22
direct and indirect use values of properties 34, 57, 118–19, 148
dogs, feral 355
as threat to penguins 371, 382
dolphins/dolphin-watching 40, 42, 346
dolphin-watching 337, 339, 341
Antarctica 141, 144–5, 153, 462
Donnelly, M.P. 34
Downs, A. 274
drop-off effect 304–5
Duffus, D.A. 33, 36, 53–4
Duffy, T. 104–5
Eagly, A.H. 157
economic factors/implications of
nature-based tourism
conceptual problems of measurement and travel cost method 113–14

costs of wildlife tourism 19–21

economic impact as an alternative measure of economic value 116–18

economic implications of empirical estimates of tourism’s importance 45–8

economic and recreational benefits of nature-based tourism 37–43

environmental issues and welfare economics 111

factors affecting demand and tour operators’ profit 20–22

implications for conservation of size of economic benefits 12–18, 33

economic returns from developing forests 12–13

failure to ensure nature conservation from economic viewpoint 13–15

influencing use of resources for wildlife conservation 15

mobility of wildlife affecting economics of conservation 18

implications of economic impact of nature-based tourism 43–5

Lamington National Park, local economic impacts of tourists to 196–7

little-known species’ non-use values as major part of economic value 431–2, 444–7

measuring economic value of World Heritage listing of natural areas 109–12

environmental damage caused by visitors 111

further factors encouraging visits to sites 111–12

marginal cost pricing 110–11

utilitarian-based welfare economics valuation theory 109–12

Mon Repos turtle-watching, economic impacts on local/ regional economy 299–300

level of satisfaction (economic surplus) obtained by turtle-watchers 298–9

open-cycle hatcheries, economic analysis of impact of 324–7

Otago Peninsula, economic impact of presence of wildlife on 386–9

penguin-based tourism, economic benefits of 365–6

seabird tourism providing economic justification for creating nature reserves 360

total economic value (TEV) of properties 118–119

travel cost method (TCM) see travel cost method (TCM)

tree-kangaroo viewing, expenditure generated by 436–8

usefulness of economic instruments in utilising/managing resources 48–53

classification of instruments 49–50

valuing/assessing wildlife used for tourism from economic point of view 391–4

World Heritage listings 109–12

ecotourism and sustainable tourism 7–10

case study of NGO’s efforts see Mareeba Wetland Foundation case study

consequences of ecotourism for biodiversity conservation 8–9

definition 7–8, 9, 27

ecotourism developments not necessarily profitable 257

educational component 8, 193–4, 272

turtle-watching 300–302, 307

social support for 288

as sustainable form of tourism 9–10

potential contribution to nature conservation 10–12

biodiversity conservation 305

charismatic/species 8–9, 305

sea turtles see Mon Repos Conservation Park; role of open-cycle hatcheries
and tourism in sea turtle conservation
whale-watching see whales/whale-watching
willingness to donate money, influencing 303, 304
educational component of ecotourism see under ecotourism

elephants
pygmy elephants dependency on forests 12–13
return to the wild 6, 12
endangered species 17–18
Convention on International Trade in Endangered Species (CITES) 287
degree of belief that a species endangered, effect of 305–6
Gouldian finch 258, 267, 271
humpback whales 338, 472
insects 6
glow worms 6
Illidge’s ant-blue butterfly 403
Lord Howe Island stick insect 403
limited access to sites on precautionary principle 356
mahogany glider 233–4, 241, 465
modifications favouring endangered species 258
northern royal albatross 381, 475
opposition to consumptive use of endangered wildlife 288
public knowledge of threats to species/support given 370
sea/marine turtles 287, 306, 311, 331
loggerhead turtles 297
southern tiger quoll 71
support for non-consumptive use of endangered species 288
tourism helping save endangered species 10
yellow-eyed penguins 381, 475
see also extinction of species

entry fees
experiential goods 264–5
insect-viewing 407
Jourama Falls 238–9, 242
Lamington Park see user-pays principle and conservation in national parks

Mareeba Wetland Foundation 257, 264–5
Mon Repos Conservation Park 291, 295, 297, 299
national parks and reserves 49, 63
and conservation see user-pays principle and conservation in national parks
funding central government 22
as policy instruments 48–9
reducing numbers of visitors to a site 52
significant factors influencing visitors’ suggested WTP amounts 80–85, 198
two-tier entry fees 22
NGOs 49
Penguin Parade 362–3
environmental issues
Antarctica see under Antarctica and Antarctic tourism
at Jourama Falls 237
Lamington National Park see under Lamington National Park
and welfare economics 111
existence value 383, 432, 445, 458
Antarctica 148
biodiversity 14
‘halo’ effect 232, 241, 242
sea turtles 330
TEV 118–19
experiential goods 264–5
demand based on limited knowledge 265
Jourama Falls visit 215
Lamington National Park visit 463
Mareeba Wetlands visit 271, 466
travel cost method 265, 460, 465, 271–2
anticipated demand for experiential commodities 113–14
whale-watching 352
World Heritage properties visits 122
WTP after event may not give accurate indication of satisfaction 265
experimental economics 155
extinction of species 47
birds at risk of extinction
Nature-based tourism and conservation

birds of prey 18
Gouldian finch 258, 267, 271
irreversible nature 47
open-access resource 318
penguins 357, 474
saving humpback whales from 338
tourism 10, 12, 17–18
turtles 318
see also endangered species
Ezenbacher, D.J. 129

fairy penguin see little penguins
(Eudyptula minor)
farmed species
ecological arguments in favour of 288
saltwater crocodiles 287
sea turtles 287–8
tourism and consumptive purposes 6
feral species 355
feral cats 17, 355, 357
as threat to little penguins 371
feral dogs 355
as threat to little penguins 371
feral pigs 355, 469
foxes see foxes
ferrets 382
Filion, F.L. 37–8
Fishbein, M. 157
flagship species 8, 305, 390
Font, A.R. 114
foxes 17
arctic foxes 41
control of 357
impact on seabirds 355, 360
penguins 355, 360, 371
as introduced species 300, 355, 360, 371, 469
turtle eggs, eating 300
France 99
Frazer, N.B. 319
Frazier, J.G. 4
Frey, B.S. 100, 109
future use values see option values

game and safari parks 6
breeding in captivity 6
Gannet (Sula serrator) 358
genral conclusions from study 455–81
glow-worms (Arachnocampa genus) 23, 24, 44, 46
breeding in captivity 6, 7
endangered 6
lifecycle 404, 405
monitoring sustainability of nature-based operations 54
and other insects as tourist attractions 402–30, 476–8
background to case study at Natural Bridge 404–9
background to insect-based tourism and related issues 403–4
entry fees for commercial tour operators 407
glow-worm viewing as popular tourist attraction 402, 405, 407–8
survey at Natural Bridge, Queensland, Australia
conclusions 425–7
empirical results 422–4
factors influencing visitors’ maximum willingness to spend 420–22
importance of glow-worms as a tourist attraction 413–16
knowledge about other glow-worm viewing sites in region 424–5
objectives and methodology of survey 409–10
survey results: profile of visitors 410–13
visitors’ knowledge of glow-worms and demand for more knowledge 416–20
Gondwana Rainforests of Australia 70, 97–9, 102, 104, 106, 115, 177–8
gorillas
costs of watching 21–2, 52
importance of to Rwanda and Uganda 40
Gouldian finch (Chloebia gouldiae) 258, 267, 271
green turtles (Chelonia mydas) 288, 297, 314
‘halo’ or proximity effect 232, 241, 242
Hanley, N. 52, 344–6
Harcha, J.Y. 129, 133, 134, 158
Hartley, K. 155

hatcheries see role of open-cycle hatcheries and tourism in sea turtle conservation

hawksbill turtles (Eretmochelys imbricata) 288, 291

Higham, J.E.S. 40, 53, 54, 390

Hohl, A.E. 46

Hosier, P.E. 55

Iceland 347–8, 473

importance of nature-based tourism: evolution and significant policy issues 3, 32–62

conclusions 57–8

economic implications of empirical estimates of importance 45–8

implications of economic impact of nature-based tourism 43–5

increasing demand for non-consumptive wildlife tourism 32–3

non-consumptive recreational tourism values of wildlife 33–43

definition of non-consumptive wildlife tourism 33–4

dynamic nature of wildlife tourism 36–7

economic and recreational benefits of nature-based tourism 37–43

generating non-use values and future use/options values 34

types of nature-based tourism/whether focal species as object 34–6

problems associated with sustainability of nature-based tourism 53–6

sustainability see sustainability of nature-based tourism, problems associated with usefulness of economic instruments in utilising/managing resources 48–53

classification of instruments 49–50

India 39

Antarctica 134

crashy-viewing 404

indirect use values 57, 118–19, 148

Infield, M. 19

insects/insect-based tourism 476–8

background to insect-based tourism and related issues 403–4

butterflies see butterflies

endangered insects 6, 403

glow-worm viewing see under glow-worms (Arachnocampa genus)

insect-based tourism as popular niche market 402

International Association of Antarctica Tourist Operators (IAATO) 129

environmental code of conduct 135, 155, 158

International Maritime Agency 156

International Union for the Conservation of Nature (IUCN) 287, 297, 311, 381

International Whaling Commission (IWC) 347, 351, 473

introduced species 133–4

cats 382

ferrets 382

foxes 300, 355, 360, 371, 469

pigs 360

stoats 382, 383

weasels 383, 385

Japan 183, 407–8, 410

whale harvesting 347–8, 351, 473

Johnson, M. 155–6

Jones, D.N. 39, 179

Jourama Falls and survey of visitors 216–19, 464–6

activities engaged in at Jourama Falls 237–8

background information on Jourama Falls in Paluma Range National Park 216–19

camping 236–7, 241

entry fees 238–9, 242

environmental problems 237

facilities that should be improved 235–6, 241

main attractions 240–41

outline of nature of survey of visitors and characteristics of respondents 219–21

age of respondents 220
approximate level of family income 221
gender of respondents 220
level of education 221
nature of survey 219
place of residence of respondents 219
previous visits to site 220
purposes of survey 215–16
survey form 244–54
whether on holiday and length of visit 219–20
overview and discussion of survey findings 239–42
valuation of ‘wildlife at Jourama Falls and visitors’ knowledge of it 232–5, 241
demand for information provision about wildlife and for guided walks 234
guided walks to look for wildlife 234–5
‘halo’ or proximity effect 232, 241, 242
importance of possibility of seeing wildlife at Jourama Falls 232
mahogany glider 233–4, 241, 465
value visitors placed on their visit/assessment of Jourama’s general attractions 227–9
attitudes to additional accommodation possibilities at site/private supply 229
relative importance of features and facilities at site 227–8
value to respondents of site, cost of visiting and mode of transport 227
visitors’ knowledge about Jourama Falls and process of destination choice 221–7
deliberate decision to visit this site before leaving home 222–3
discussion of travel destination choices by tourists 226–7
prior knowledge of the site 221–2

Kahneman, D. 155, 242
Kaldor–Hicks principle 68
nature conservation 273–4
kangaroos see tree-kangaroos
Keage, P.L. 158
king parrots (\textit{Alisterus scapularis}) 192
Knapman, B. 114
Knetsch, J. 113
knowledge of sites before visits
Antarctica 140–41
Jourama Falls 221–2
Mareeba Wetlands 260–61
visitors’ knowledge of glow-worms/ demand for more knowledge 416–20
koalas 356
Kopp, R.J. 114
Kriwoken, L. 134, 138, 139, 155–6, 158
Krüger, O. 8
Kulera, P. 157
Lamington National Park
Antarctic beech trees 177–8
entry fees see user-pays principle and conservation in national parks
environmental problems 202–3, 204–5
features attracting visitors 177–80, 185–90
birds as a main factor for visitors 71, 185, 188, 193, 197, 203–4
bird-watching 71, 179–80, 182–3, 185–90
bush-walking 71, 185, 188, 203–4
getting close to nature 185, 189, 203
particular aspects of birds at O’Reilly’s/Green Mountain site 190–96
presence of rainforest as main factor for visitors 185, 188, 203
importance of as natural tourist attraction 177
overnight stays 178
survey of visitors 177, 179–80, 463–4
attitudes to charging entry fees to Lamington National Park 197–201, 205
see also user-pays principle and conservation in national parks
Index

conclusions 203–6
local economic impacts 196–7
nature of survey and socio-economic profile of respondents 180–85
particular aspects of birds at O’Reilly’s/Green Mountain site 190–96
scope for environmental improvement/better information provision 201–3
stated reasons for visiting O’Reilly’s/Green Mountain/activities 185–90
survey form 209–14
World Heritage listing 177
as an attractor to visitors 185–8
see also rainforest tourists
land/ownership see communal
land/ownership; private land/ownership; states/land ownership
Lassio, J.P. 300
Lazarow, N. 157
leatherback turtles (Dermochelys coriacea) 327
Limpus, C.J. 56, 294
Lindblad, Eric 129
listing see Convention Concerning the Protection of World Cultural and Natural Heritage
little-known species and tourism see tree-kangaroos
little penguins (Eudyptula minor) 7, 23, 34–5, 40, 381
little penguins and Penguin Parade as tourist attractions 355–80, 474–5
barriers to use as nature-based tourism resource 356
bird-watching with reference to seabird-based tourism in Australia 357–63
economic benefits of penguin-based tourism 365–6
entry fees for Penguin Parade 362–3
factors influencing willingness to pay for research/conservation 372–6
impact of humans on penguins 361–2
monetary and non-monetary conservation benefits 368–70
nature-based tourism as major reason to visit an area 364
observations, implications, conclusions from Penguin Parade survey 376–7
other conservation benefits 370–72
penguin-based tourism established on Phillip Island 360–61
significant educational benefits to visitors 366–8
survey of nature tourism benefits at Penguin Parade, methodology of 363–4
negative impacts on 55
predators/feral species as threat to 355, 371
see also penguins
Lober, D.J. 114
loggerhead turtles (Caretta caretta) 297
Lonely Planet 223
Loomis, J. 86, 443
Lord Howe Island stick insect 403
Macquarie Dictionary 5
Madrid Protocol 134, 153
Maharana, I. 307
mahogany glider (Petaurus gracilis) 233–4, 241, 465
attitudes to conservation of mahogany glider 233–4
Maille, P. 114
Mareeba Wetland Foundation case study 255–84, 466–7
background on Mareeba Wetland Foundation’s reserve 256–8
aim of reserve management 257
facilities and services 257
supplying mixture of public and private goods 257–8
conclusions 271–4
satisfying educational principle of ecotourism 272
entry fees/conservation levy 257, 264–5
Nature-based tourism and conservation

frequency of visits to reserve by respondents and their prior knowledge of it 260–61
knowledge of Mareeba Wetland Foundation/evaluating its programmes 267–8
mode of transport, nature of trip and cost/value of reserve visits 261–5
nature of survey and socio-economic profile of respondents 258–60
participation in activities, assessments of attractions and learning experiences 266–7
questionnaire for survey 276–84
survey purposes 255–6
views about conservation facilities and services in national parks 268–71
Marshall, A. 109
McNeely, J.A. 48
Mendelsohn, R. 114, 116
Menkaus, S. 114
mental accounting 224, 239, 272, 465
Mercado, L. 300
Meylan, A. 311
minimum viable population of a species 13, 395–6
and wildlife tourism 391, 446, 476
modified/disturbed habitats 7
Mareeba Wetlands see Mareeba Wetland Foundation case study
species depending for survival on 10–11
Mon Repos Conservation Park 467–9
consequences of turtle-based tourism at Mon Repos 298–306
changed conservation attitudes and behaviours of tourists 300–303
economic impacts on local/regional economy of turtle-watching 299–300
generation/maintenance of political pressure for turtle conservation 303–4
impacts on socialisation 303
level of satisfaction (economic surplus) obtained by turtle-watchers 298–9
discussion of aspects of survey results 304–6
conclusions 306–7
drop-off effect 304–5
features of turtle-based ecotourism at Mon Repos beach 297–8
historical development of turtle-based ecotourism 293–6
entry fees 291, 295, 297, 299
establishment of Mon Repos 294–6
exploitation of sea turtles 293–4
involvement of scientific researchers 295, 303
measures introduced to protect sea turtles 294–5
see also tourism as a force for conserving sea turtles under natural conditions
Moscardo, G. 48
Mrosovsky, N, 311
Mungatana, E.E. 114
national parks and reserves 24–5
attitudes to private supply of tourist services/facilities 229–30, 240–41, 268–70, 272–3
circumstances in which respondents more supportive of private commercial supply of facilities and services for tourists/visitors 231, 268, 269, 273
observations on responses regarding private provision of facilities 230–31
support in principle for private provision of facilities in national parks 230
barriers to establishing sites 356
complementary benefits from World Heritage listings for nearby national parks 108
conservation facilities and services in national parks, views about 268–71
conservation/user-pays see user-pays principle and conservation in national parks

Clem Tisdell and Clevo Wilson - 9781781005163
Downloaded from Elgar Online at 04/28/2019 11:23:58PM via free access
Index 495

decisions to visit see rationality of tourists
entry fees 49, 63
and conservation see user-pays principle and conservation in national parks
funding central government 22
as policy instruments 48–9
reducing numbers of visitors to a site 52
significant factors influencing visitors’ suggested WTP amounts 80–85, 198
two-tier entry fees 22
Lamington National Park see Lamington National Park
Mon Repos Conservation Park see Mon Repos Conservation Park
Paluma Range National Park, Jourama Falls section 216–19
see also Jourama Falls and survey of visitors
rainforest tourists see rainforest tourists
seabird tourism providing economic justification for creating nature reserves 360
Natural Bridge see under glow-worms (Arachnocampa genus)
nature-based tourism 455–7, 479–80
albatross-viewing see northern royal albatross
Antarctica see Antarctica and Antarctic tourism
and biodiversity
altered conditions sites making positive contribution 272
conservation fostered by sustainable use of wildlife 288
ecotourism 305
existence value 14
leading to greater conservation of wild biodiversity 8–9, 15
threatening biodiversity 10, 15–18
eco-tourism see ecotourism and sustainable tourism
forms of 4–7
reliance on non-captive wildlife stocks 6
glow-worm viewing see under glow-worms (Arachnocampa genus)
implications for conservation of size of economic benefits 12–18, 33
economic returns from developing forests 12–13
failure to ensure nature conservation from economic viewpoint 13–15
influencing use of resources for wildlife conservation 15
nature-based tourism not always fostering biodiversity conservation 15–18
implications of economic impact on income and employment 43–5
importance see importance of nature-based tourism: evolution and significant policy issues
insect-viewing see insects/insect-based tourism
little-known species see tree-kangaroos
national parks and reserves see national parks and reserves
negative side-effects of nature-based tourism 11, 133–4, 156, 292–3
on Otago Peninsula 390, 391
northern royal albatross-viewing see northern royal albatross
overview 3–31
penguin-viewing see under little penguins (Eudyptula minor); penguins; yellow-eyed penguins (Megadyptes antipodes)
and pollution see pollution and nature-based tourism
positive effects of consumptive wildlife tourism 11–12
potential contribution of non-consumptive tourism to nature conservation 10–12, 32
possible positive tourist impacts 289–92
sharing benefits of nature-based tourism, additional aspects of 18–22
costs of wildlife tourism 19–21
factors affecting demand and tour operators’ profit 20–22
stakeholders in wildlife tourism 18–19

sea turtles see role of open-cycle hatcheries and tourism in sea turtle conservation; tourism as a force for conserving sea turtles under natural conditions

sustainability see sustainability of nature-based tourism, problems associated with

tree-kangaroos see tree-kangaroos

whale-watching see whales/whale-watching

Navrud, S. 114

neoclassical economics

ignoring diverse ways of coping with bounded rationality 28, 215, 242
diversity of tourist decision making not taken into account 242
diversity of tourist knowledge not taken into account 141, 226–7

‘halo’ effect 242

limitations when applied to tourism economics 23, 96, 239, 242

rationality of consumers 215

travel cost method (TCM) of determining demand see travel cost method (TCM)

welfare economics 111, 113–14, 116–17

World Heritage listing 96, 111–12, 113–14, 118, 122

Nepal 39

Nevard, Tim and Gwynneth 257

New Zealand

albatross tourism 35, 40, 358
Antarctica 134
butterfly-viewing 402, 404
conservation of wildlife 292
development of nature-based tourism 39–40
glow-worm viewing see under glow-worms (Arachnocampa genus)
Maori cultural sites, impact of tourism on 390

Otago Peninsula see Otago Peninsula

whale-watching 339

commercial whaling moratorium 347–8

New Zealand fur seals (Arctocephalus fosteri) 381, 384

Ngazy, N.J. 443

NGOs 8, 9, 25
case study of ecotourism efforts see Mareeba Wetland Foundation case study

charging entry to reserves 49

financial contributions to the work of NGOs 289–90

nature conservation roles 255, 270 views about 270–71, 273

Otago Peninsula 393

as stakeholders in wildlife tourism 19

non-consumptive values and non-use values 119

non-native species see introduced species

non-use values

bequest values 255, 330, 383, 392, 445

Antarctica 150

market systems 432

non-consumptive uses 34

public goods 13

and TEV 10, 119

existence value 383, 432, 445, 458

Antarctica 148

biodiversity 14

‘halo’ effect 232, 241, 242

sea turtles 330

TEV 118–19

little-known species 431

tree-kangaroos 444–6

option values 330, 383, 445

non-consumptive use 34

TEV 118–19

northern royal albatross (Diomedea sanfordi)
edgedangered 381, 475

habits 382

threats to 382

valuable tourist attraction 358, 381–401, 475–6

capacity constraints and ecological risks 390–91

charges for viewing nesting albatross 383, 393
Index

conservation by landholders 385–6
factors making wildlife tourism attractive for landholders 384–5
growth in visitor numbers 40, 389
whether income inducing landowners to conserve optimally 394–6
Norway 347–8, 473
Nuva, R. 443

Oceania Project 346
offset policy 269
open access to natural resources/common pool resources 12
open-cycle hatcheries see role of open-cycle hatcheries and tourism in sea turtle conservation
option values 330, 383, 445
non-consumptive use 34
TEV 118–19
Orams, M.B. 8, 11
orang-utans
dependency on forests 12–13
habits making use of orang-utans difficult for tourism 13
release to the wild difficult 6, 12
orphanages see zoos/orphanages
Otago Peninsula 381–401
conclusions on wildlife tourism/conservation of wildlife 396–8
economic impact of presence of wildlife on Otago Peninsula 386–9
estimation procedures 386–7
results 387–9
growth in wildlife-based tourism on peninsula/limits to growth 389–91
capacity constraints and ecological risks 390–91
pricing and open-access issues 391
institutional landholding patterns/incentives to conserve wildlife 382–6
charges for penguin viewing tours 383–4, 393
charges for viewing nesting albatross 383, 393

Packer, J. 304–5
Pareto principle 273–4, 394–5
passive use values 119
see also bequest values; existence values
Passmore, J.A. 293, 306–7
penguins 24
African penguin (Spheniscus demersus) 358
Antarctic tourism 141, 144–5, 158
foxes as threat to 355, 360, 371
impact of humans on penguins 361–2
little penguins see little penguins (Eudyptula minor)
mobility of wildlife affecting economics of conservation 18
monitoring sustainability of nature-based operations 54
effects of nature-based tourism 55
Phillip Island as human managed activity 272
see also little penguins (Eudyptula minor)
popularity 356
predators/feral species as threat to 355, 371, 385
tourist attraction see under little penguins (Eudyptula minor)
yellow-eyed penguins see yellow-eyed penguins (Megadyptes antipodes)
phylogenetic similarity principle 8
Pigou, A.C. 109
Pigram, J.J. 8
pigs 360
feral pigs 355, 469
Plous, S. 8
pollution and nature-based tourism 53–4, 151, 292
sea pollution 32, 292
oil pollution 133, 156, 370
porpoises 337, 339
Prasad, B. 45
precautionary principle 49, 356
predators
control of 356, 357, 360, 386
exotic predators 382, 385
feral species see feral species
foxes see foxes
introduced 355–6, 382, 383
and turtles 314, 323
private land/ownership 25
difficult/costly to enforce private property rights 318
in Lamington National Park 179
economic benefit and strategies 15, 19–20
little known species 431–2, 445–6
income from wildlife tourism
inducing landowners to conserve optimally 394–6
mobility of wildlife affecting economics of conservation 18, 318
Otago Peninsula see Otago Peninsula
private ownership of wildlife as effective means for conserving species 318
as stakeholders in wildlife tourism
18, 19
transboundary resource, difficulty of establishing private property rights in 351
proximity or ‘halo’ effect 232, 241, 242
psychological economics 23, 112, 155, 242, 468
public goods and nature conservation 13, 68, 198, 445–6
and NGOs 255, 257–8
and political failure 10
rainforest tourists 177–214
birds
bird-watching 179–80, 182–3, 185–90
as a main factor for visitors 185, 188, 193, 197, 203
particular aspects of birds at O’Reilly’s/Green Mountain site 190–96
features attracting visitors 177–80, 185–90
birds as a main factor 71, 185, 188, 195, 203–4
bird-watching 71, 179–80, 182–3, 185–90
bush-walking 71, 185, 188, 203–4
getting close to nature 185, 189, 203
particular aspects of birds at O’Reilly’s/Green Mountain site 190–96
presence of rainforest as main factor 185, 188, 203
survey of visitors in Lamington National Park 177, 179–80
attitudes to charging entry fees to Lamington National Park 197–201, 205
see also user-pays principle and conservation in national parks
conclusions 203–6
local economic impacts 196–7
nature of survey and socio-economic profile of respondents 180–85
particular aspects of ‘birds’ as at O’Reilly’s/Green Mountain site 190–96
scope for environmental improvement/better information provision 201–3
stated reasons for visiting
O’Reilly’s/Green Mountain/activities 185–90
survey form 209–14
Rankin, R.L. 47
rationality of tourists 215–54, 464–6
attitudes to private supply of tourist/visitor services and facilities in national parks 229–30, 240–41
circumstances in which respondents more supportive of private commercial supply
of facilities/services for tourists/visitors in national parks 231
observations on responses regarding private provision of facilities 230–31
support in principle for private provision of facilities in national parks 230
decision-making, knowledge and process of destination choice 221–7
bounded rationality 114, 215, 240, 242
decisions made in multistage sequential manner 239, 241, 272
deliberate decision to visit particular site before leaving home 222–3
discussion of travel destination choices by tourists 226–7
experiential issue 114
see also experiential goods
prior knowledge of the site 221–2
responses as to how well informed respondents are before visiting 225–6
time spent gathering information about tourist places and attractions 225
when is information gathered about holiday attractions 224–5
where and when decisions are made to visit holiday attractions 223–4
neoclassical economics
ignoring diverse ways of coping with bounded rationality 28, 215, 242
diversity of tourist decision making not taken into account 242
diversity of tourist knowledge not taken into account 141, 226–7
'halo' effect 242
rationality of consumers, assumptions about 215
tavel cost method, caution in applying 239
survey of visitors to Jourama Falls
see Jourama Falls and survey of visitors
refuges see zoos/orphanages
regent bowerbirds (Sericulus chrysocephelus) 192
religions and tourism 4
research techniques 25–7
sensitivity of stated values/opinions/behavioural intentions to timing of elicitation 27
survey methods 25–6
use of Likert scales: ordinal measures 26
returning captive/semi-captive animals to the wild 6
not always successful 6, 12
Richardson, P. 319
Richardson, R. 86, 443
Robertson, C.J.R. 55
role of open-cycle hatcheries and tourism in sea turtle conservation 310–36, 469–71
conclusions 333
economic analysis of impact of open-cycle hatcheries 324–7
links between sea turtle hatcheries and tourism 313–14
nature of sea turtle hatchery-based tourism/hatchery operations in Sri Lanka 314–24
commercial gain as an objective 319
generation of income 319
justifying hatcheries 319, 322–3
managerial criticisms of hatcheries 323–4
number of eggs taken by hatcheries increasing and fluctuating 320–22
protecting eggs from predators/consumption 314–18, 319
revenue of hatcheries 322
size of hatcheries increasing 319–20
pros and cons of open-cycle hatcheries/hatcheries relying on tourism 331–3
effectiveness of hatcheries in reversing declines in turtles uncertain 331–2
survival of sea turtles dependent on management of hatcheries 332
role of hatcheries in turtle conservation – ecological/ economic considerations 327–31
effects of rising tourist demand for visits to hatcheries 329–30
role of open-cycle hatcheries as alternative to in situ conservation 312–13, 332–3
sea/turtle egg collecting from the wild as major threat to their survival 310, 311–12
Rootes, D. 134, 138, 139
royal albatross 23, 35
effects of nature-based tourism 54–5
growth in visitor numbers 40
northern royal albatross see northern royal albatross (Diomedea sanfordi)
southern royal albatross (Diomedea epomophora) 382
Royal Society for the Protection of Birds 19, 49, 358
Rozemeijer, N. 52
Rubin, J. 133
Rwandan mountain gorilla watching 40, 46, 52
Saltzer, R. 48
Sampson, F.B. 55
satin bowerbirds (Stilonorhynchus violaceus) 192
seabirds
feral species as threat to 355, 360
foxes as threat to 355, 360, 371
penguins see penguins
seabirds as tourist attractions 355–80
advantages of seabirds over forest-dwelling birds 359
in Antarctic tourism 141, 144–5
barriers to use as nature-based tourism resource 356
bird-watching with reference to seabird-based tourism in Australia 357–63
conservation benefits 368–72
economic benefits of penguin-based tourism 365–6
factors influencing willingness to pay for research/conservation 372–6
growth in seabird tourism 358
nature-based tourism as major reason to visit an area 364
site specific seabird-based tourism 358
sea/marine turtles 23
Australian flatback (Natator depressa) not endangered 311
breeding in captivity/hatcheries 6, 7, 10, 34
closed-cycle hatcheries 312, 314
concerns about impact of tourism 55–6
controversy over/problems with 24, 54, 312–13, 331–3
open cycle hatcheries as alternative to in situ conservation 312–13, 332–3
see also role of open-cycle hatcheries and tourism in sea turtle conservation
consumptive use 288, 289, 292–3
preventing consumption 315, 318
sea turtle eggs 310, 312, 313–14, 319, 322–3
tourism activities as consumptive 330
eggs
collecting from the wild as major threat to their survival 310, 311–12
foxes eating turtle eggs 300
illegal collection 310–12, 314, 318, 322–23, 331, 469–70
see also role of open-cycle hatcheries and tourism in sea turtle conservation
endangered 287, 297, 306, 311, 331
bans and restrictions on international trade 287
existence value 330
green turtles (Chelonia mydas) 288, 297, 314
hawksbill turtles (*Eretmochelys imbricata*) 288, 291
historical exploitation 293–4
leatherback turtles (*Dermochelys coriacea*) 327
loggerhead turtles (*Caretta caretta*) 297
mobility of wildlife affecting economics of conservation 18
monitoring sustainability of nature-based operations 54
not satisfying phylogenetic similarity principle 8
support for conservation 287
tourism 23–4
and conversation see role of open-cycle hatcheries and tourism in sea turtle conservation;
tourism as a force for conserving sea turtles under natural conditions
effects of nature-based tourism 55–6
farmed species for tourism 6, 287–8
turtle based tourism/breeding in natural conditions 24
urban infrastructure threatening beach habitats 288
Sea Shepherd Conservation Society 351
seals, New Zealand fur (*Arctocephaus fosteri*) 381, 384
Sekercioglu, C.H. 193
Sinden, J.A. 47
Smith, V.K. 114
snakes 287
South Africa
game and safari parks 6, 272
importance of tourism 40
butterfly-viewing 404
seabird tourism 358
southern royal albatross (*Diomedea epomophora*) 382
southern tiger quoll 71
Splash, C.L. 344–6
Sri Lanka
elephant refuges 6
elephants orphaned/injured through war 12

nature-based tourism as relatively untapped resource 40–43
problems caused by lack of policy instruments 53
sea turtles
effects of rising tourist demand 329–30
eggs as open-access resource 318
illegal collecting of eggs by hatcheries 312, 331
links between sea turtle hatcheries and tourism 24, 40–43, 313–14, 331
nature of sea turtle hatchery-based tourism/hatchery operations 314–24
open-cycle sea turtle hatcheries 310–11, 312
sugar plantations producing less revenue than elephant-watching tourism 13
Stanley, O. 114
states/land ownership 24–5
benefiting from entrance fees to national parks 22
little-known species 445–6
national parks and reserves see national parks and reserves nominations by States of properties for World Heritage listing 97
regulations protecting wildlife 15
as stakeholders in wildlife tourism 18–19
state ownership of land
lobbying/political considerations affecting nature-based tourism 15, 19, 20
stoats 382, 383
Stoeckl, N. 114
sustainability of nature-based tourism, problems associated with 53–6
effects of nature-based tourism 54–6
overexploitation problems 54
risk of irreparable damage to wildlife resource 53–4

Talbert, O.R. 56
Thaler, R.H. 224
Thorsdell, J. 104–5
Tisdell, C.A. 9, 11–12, 18
Nature-based tourism and conservation

Antarctic tourism 136, 157–8
behavioural/experimental economics 155, 224
birdlife and tourists 195
entry fees to national parks 64
importance of nature-based tourism 32, 36, 43, 45–8, 52–3, 55, 57
Otago Peninsula, economic impact of wildlife tourism on 386–9
Paretian optimality 274
political factors in nature conservation 274
poorly known species 443–4, 445
public knowledge of wildlife/economic value placed on wildlife 370
rationality of tourists see rationality of tourists
sea turtles see tourism as a force for conserving sea turtles under natural conditions; role of open-cycle hatcheries and tourism in sea turtle conservation
turtle-watching see under turtle-watching
eco-tourism see ecotourism and sustainable tourism
general economic activity affecting 22
glow-worm watching see under glow-worms (Arachnocampa genus)
insect-based see insects/insect-based tourism
penguin-viewing see under little penguins; penguins; yellow-eyed penguins
tour operators 19, 20
profitability 20–22
tourism supply chains 20
wildlife-based tourism see wildlife-based tourism
tourism as a force for conserving sea turtles under natural conditions 287–309, 467–9
consequences of turtle-based tourism at Mon Repos 298–306
changed conservation attitudes and behaviours of tourists 300–303
economic impacts on local/regional economy of turtle-watching 299–300
generation/maintenance of political pressure for turtle conservation 303–4
impacts on socialisation 303
level of satisfaction (economic surplus) obtained by turtle-watchers 298–9
discussion of aspects of Mon Repos survey results 304–6
conclusions 306–7
drop-off effect 304–5
features of turtle-based ecotourism at Mon Repos beach 297–8
public support for conservation of turtles 287–8
turtles as endangered species 287
ways in which tourism can foster or hinder conservation of marine turtles 289–90
possible negative tourist impacts 292–3
possible positive tourist impacts 289–92
see also Mon Repos Conservation Park
whale-watching see whales/whale-watching
tradeable permits 52
transaction cost theory 242
transboundary resources cetaceans 337–8
Coase theorem 51–2
efforts to reduce harvesting 32
private property rights, difficulty of establishing 351
whales see under whales/whale-watching
travel cost method (TCM) 113–14
experiential goods 265, 460, 465, 271–2
anticipated demand for experiential commodities 113–14
World Heritage properties, experiential nature of visits to 122
and impact of size/configuration of listed properties on demand estimation 115–16
and multi-purpose trips 114–15, 262
neoclassical economics assumption of consumers’ rationality 215, 226, 239
other limitations of travel cost method 116
widely used for estimating recreational/tourism value of outdoor areas 114
Tree-kangaroo and Mammal Group 446, 448
tree-kangaroos (Dendrolagus lumholtzi; Dendrolagus bennettianus) 7, 23, 24
non-use value of little-known species as major part of economic value 431–2, 444–7
species of tree-kangaroos 432–3
tourism and conservation 431–51, 478–79
background about little-known species used in nature-based tourism 432–4
conclusions 447–8
empirical results 442–4
expenditure generated from tree-kangaroo-based tourism 436–8
factors influencing visitors’ maximum willingness to spend 439–41
field study and survey methodology 435
knowledge of tree-kangaroos poor 431
socio-economic profile of visitors in Atherton Tablelands 435–6
whether generated expenditure sufficient for kangaroo conservation 444–7
watching as labour intensive 21
Tullock, G, 274
turtles see sea/marine turtles
Tversky, A. 155, 242
Ugandan mountain gorilla-watching 40, 46, 52
United Kingdom Antarctica 134
bird-watching, popularity of 358
seabird tourism 358
United Nations (UN) Antarctica 151–2, 154, 156, 463
Conference on the Human Environment 95
International Maritime Agency 156
Security Council 100
UN Educational, Scientific and Cultural Organization (UNESCO) 95, 99
United States Antarctica 134
Fish and Wildlife Service 38, 39
national refuges, popularity of 38
San Diego Zoo contributing to wild species survival 12
turtle conservation 287
whale-watching 339
user-pays principle and conservation in national parks 63–92, 457–9
conclusions 88
current charges and fees for entry to Australian national parks 69–70
Nature-based tourism and conservation

Jourama Falls entry fees 238–9, 242
Lamington National Park surveys of visitors and their profiles 70–74, 197–201, 205
brief description of the survey site 70–71
survey and profile of visitors 71–4
Mareeba Wetlands entry fees 257, 264–5
Mon Repos Conservation Park entry fees 291, 295, 297, 299
Penguin Parade entry fees 362–3
policy implications of survey and regression results 86–8
effects of charging 86
support for conservation 87–8
views about charging 86, 87
should visitors pay to visit national parks/nature reserves? 64–9
effect of fee introduction 66–7
justifying fees 67–8, 69
national parks providing mixed public goods 68
pressure to charge/increase fees 65
visitors’ attitudes and suggested entry fees for Lamington National Park 74–85, 197–201, 205
significant factors influencing visitors’ suggested WTP amounts 80–85, 198

Valentine, P. 39
Vaske, J. 34
Wager, J.A. 33–4
Ward, F.A. 114, 115, 116
weasels 383, 385
Wen, J. 9, 46
whales/whale-watching 23, 35
annual migration 338–9
Antarctic tourism 141, 144–5
effect of increased competition 21
effects of nature-based tourism 55
humpback whales
endangered 338, 472
popularity of 339
research 346
as tourism resource and an impetus for conservation 337–54, 471–3
analysis of economic sustainability of whale-watching 348–50
background to global whale-watching industry/its recent popularity 338–42
conclusions 351–2
conservation values 344–6
conservation of whales, willingness to pay for 337–8, 344–5
economic benefits resulting from Hervey Bay whale-watching tourism 342–4
educational benefits 337
growth in whale/cetacean-watching 38, 337, 339–42
sightings rations and visitor satisfaction 337, 341–2, 347–8, 349, 350, 372–3
survey methodology 342
whale-watching 339
transboundary resource, whales as 18, 337–8, 346–7, 352
solutions for solving conflict of interests in sharing resource 350–51
use of whales for consumptive/non-consumptive purposes 18, 346–8
whale-harvesting 337–8, 348, 352, 473
to harvest or not to harvest – implications for whale-watching industry 346–8
moratorium on commercial whaling 338, 347–8, 351
solutions for solving conflict of interests 350–51
Wheatley, N. 179
Wheeler, B. 9–10
White, P.C.L. 443
Whitten, T. 19, 118
Wight, P. 9, 300
wildlife-based tourism 456–7
breeding in captivity see breeding in captivity
captive species 6, 7
categories of wildlife tourism 5
consumptive purposes see consumptive wildlife tourism
definition of wildlife 5
Index

educational component, effects on conservation 8 and eco-tourism see ecotourism and sustainable tourism factors affecting wildlife being used as tourism resource 8–9 farmed species see farmed species focus on 4 importance of seeing particular species for sustainability 8 in modified environments see modified/disturbed habitats non-captive wildlife tourism 5–6 sharing economic benefits 18 parties involved in wildlife tourism 20–21 semi-captive wildlife tourism 6 stakeholders in 18–19 valuing/assessing wildlife used for tourism from economic point of view 391–4 whether income from tourism induces landowners to conserve optimally 394–6

Wilson, C. 11 Antarctic tourism 136, 157–8 birdlife and tourists 195 entry fees to national parks 64 importance of nature-based tourism 32, 36, 43, 46, 53, 55, 57 poorly known species 443–4, 445 public knowledge of wildlife/economic value placed on wildlife 370 turtle-watching economic impacts 299–300 survey 298–9, 300–306

Wood, M.E. 307

World Conservation Strategy 10 World Heritage Convention see Convention Concerning the Protection of World Cultural and Natural Heritage World Heritage Fund 97–8 World Heritage listing of Australian natural sites 23, 95–127, 459–61 Australia’s World Heritage properties 96–100 Aboriginal heritage 97

total economic value of properties 118–119

- tourism value of listed properties less than their TEV 118

- variations in visitor numbers as a result of World Heritage listing 100–105

- greater percentage increase in numbers visiting non-listed sites 101–4, 105

- increase in visitor numbers to sites close to major cities 104

World Heritage listing as conservation strategy: institutional/political aspects 119–20

Yang, C-H. 99, 104, 107, 121–2

- yellow-eyed penguins (Megadyptes antipodes) 7, 23, 40
- endangered 381, 475
- habits 382
- predators/feral species as threat to 355, 371, 382, 385
- rarest of all penguins 381
- as valuable tourist attraction 381–401, 475–6

capacity constraints and ecological risks 390–91

- charges for penguin viewing tours 383–4
- conservation by landholders 385–6
- donations to Yellow-eyed Penguin Trust for conservation 383
- factors making wildlife tourism attractive for landholders 384–5
- growth in visitor numbers 389
- Penguin Place 384
- private landowners charging for tours 383–4, 393
- whether income inducing landowners to conserve optimally 394–6

see also penguins

Yu, D.W. 307

zoos/orphanages

- contributing to long-term survival of wild species 12
- open 6
- providing outlet for illegally taken animals 12
- traditional 6