

INDEX

Please note: Page numbers in *italics* refer to maps.

A

Africa and Antarctica region
 fronts and currents 10
 Agulhas Bank 7
 Agulhas Current system 5, 7, 11, 15
 front and currents 8
 Agulhas Plateau 7
 Agulhas Return Current 7, 11
 Amazon river dolphin 17
 ambergris 87
 Angola–Benguela frontal zone 6, 7
 Angola Current system 6
 Angola Dome 6
 Antarctica 1, 5, 11, 12
 Antarctic Circumpolar Current (ACC) 5, 11
 temporal variability 12–13
 Antarctic Circumpolar Wave (AWC) 12
 Antarctic Polar Front (APF) 5, 12
 Antarctic sea ice zone 12
 Antarctic Zone 11
 Atlantic Ocean 1, 15
 atmospheric weather systems 7

B

baiji 17
 Balaenidae 17, 18–19, 29–35
Balaenoptera 19
acutorostrata subsp. 54–57, 55
bonaerensis 48–53, 51
borealis 64–68, 67
brydei 58–63, 60
edeni 62
musculus 76–82, 79
musculus brevicauda 76, 79
musculus intermedia 76, 79
omurai 62
physalus 70–75, 72
physalus patachonica 70
 Balaenopteridae 17, 19, 41–82
 baleen whales 36
 beaked whale 17, 19, 21
 Andrew's 132–134, 134
 Arnoux's 103–107, 104
 Blainville's 140–144, 141
 Cuvier's 20–21, 98–102, 101
 Gervais' 125–127, 126
 ginkgo-toothed 145–147, 147
 Gray's 128–131, 129
 Hector's 119–121, 121
 Layard's 135–139, 136
 Longman's 111–113, 112
 Perrin's 119
 Shepherd's 20, 108–110, 109
 True's 122–124, 123
 Benguela Current system 5, 15
 fronts and currents 9
 poleward undercurrent 6

Benguela ecosystem 6
 Benguela Niños 6–7, 13
Berardius 20
arnuxii 103–107, 104
 Blue whale 76–82
 Antarctic 76, 79
 pygmy 76, 79
 bottlenose dolphin 22
 common 15, 174–180, 176
 Indo-Pacific 15, 181–186, 182
 bottlenose whale 17, 19
 southern 21, 114–118, 116
 Bryde, Johan 58
 Bryde's whale 1, 58–63, 60
 pygmy 62

C

Caperea marginata 36–40, 37
Cephalorhynchus 23
commersonii 153–157, 154
heavisidii 148–152, 149
 Cetacea
 classification 1, 17
 suborders 18–23
 cetacean
 environment 5–13
 fauna 1
 hybridisation 179
 mammalian order 1, 17–23
 mass mortality 211
 older females 283
 skulls 15–16, 24–25
 Clymene dolphin 15, 16, 204–207, 205
 Commerson's dolphin 23, 153–157, 154
 common dolphin 22
 Indo-Pacific 222
 long-beaked 218–222, 219
 short-beaked 213–217, 214
 Continental Zone 11
 Convention for the Regulation of Whaling 52, 81
 cookie-cutter sharks 40
 Crozet Plateau 12, 13

D

Delagoa Bight 7
 Delphinidae 17, 20, 21–23, 148–288
 Delphinoidea 17
Delphinus 22
 capensis 218–222, 219
 capensis tropicalis 222
 delphis 213–217, 214
 'Discovery' whale mark 69
 DNA 1, 15
 dolphin fauna 15
 dolphins 20
 aerial behaviour 202
 in Atlantic Ocean 15
 behaviour patterns 161
 in Indian Ocean 15

dolphins continued...
 and porpoises 288
 vegetarian legend 164
 Drake Passage 12, 13
 dusky dolphin 23, 228–233, 229

E

East Madagascar Current 7
 East Wind Drift 12
 Eden's whale 62
 El Niño–Southern Oscillation events 6,
 see also Benguela Niños
 Eschrichtiidae 17
Eubalaena
australis 29–35, 32
glacialis 29
japonica 29
 evolution 16

F

Feresa 21–22
attenuata 252–256, 253
 fin whale 70–75, 72
 pygmy 70
 franciscana 17
 Fraser, Francis Charles 225
 Fraser's dolphin 23, 223–227, 224

G

genetics 1
Globicephala 21
macrorhynchus 278–283, 280
melas 272–277, 274
Grampus 21
griseus 242–246, 243
 gray whale 17

H

Heaviside's dolphin 23, 148–152, 149
 hourglass dolphin 23, 234–237, 235
 humpback dolphin 15, 22
 Atlantic 163–166, 164
 Indo-Pacific 167–173, 168
 humpback whale 17, 19, 26, 41–47, 42
Hyperoodon 21
ampullatus 114
planifrons 114–118, 116

I

identification key 18–23
 Indian Ocean 1, 15
 Indian/Pacific oceans 15
 Indian river dolphin 17
Indopacetus 21
pacificus 111–113, 112
 Iniidae 17
 International Whaling Conference 34
 Intertropical Convergence Zone 6
Isistius brasiliensis 40

[Index](#)

K

Kerguelen Plateau 13
 killer whale 21, 263–271, 266
 false 22, 257–262, 258
 pygmy 21–22, 252–256, 253
 ‘sea wolf’ 255
 swimming with 270
Kogia
 breviceps 90–93, 91
 sima 94–97, 95
Kogiidae 17, 20, 90–97

L

Lagenodelphis 23
 hosei 223–227, 224
Lagenorhynchus 23
 australis 232
 cruciger 234–237, 235
 obscurus 228–233, 229
 Layard, Edgar Leopold 139
 Linnaeus, Carl 83
 Lipotidae 17
Lissodelphis 22–23
 peronii 238–241, 239
 longshore thermal fronts 5–6

M

Macquarie Ridge 13
 Madagascar Ridge 7
 Mammal Research Institute (MRI) xi
 Whale Unit 1, 2
 marine dolphins 17
 markers, data for 15
 measuring of whales 81
Megaptera 19
 novaehollandiae 41–47, 42
 melon-headed whale 23, 247–251, 248
Mesoplodon 21
 boucainieri 132–134, 134
 densirostris 140–144, 141
 europaeus 125–127, 126
 ginkgodens 145–147, 147
 grayi 128–131, 129
 hectori 119–121, 121
 layardii 135–139, 137
 minus 122–124, 123
 perrini 119
 mesoscale variability 12, 13
 minke whale
 Antarctic 48–53, 51
 dwarf 54–57, 55
 Monodontidae 17
 Mozambique Ridge 7
 mtDNA sequence 15, 16
 museums
 acronyms, key to 2
 collections 1
 mysticetes 1
 Mysticeti 17, 18–19

N

narwhal 17
 Natal Bight 7

Natal Pulse 7

Neobalaenidae 17, 19, 36–40

O

oceanic current patterns 15
 odontocetes 1
Odontoceti 17, 18, 19
 Omura’s whale 62
Orcinus 21
 orca 266, 263–271

P

Peale’s dolphin 232
Peponocephala 23
 electra 247–251, 248
 permits, whaling 52
Phocoena dioptrica 284–288, 285
Phocoenidae 17, 20, 284–288
Physeter macrocephalus 83–89, 85
Physeteridae 17, 20, 83–89
Physeteroidea 17
 pilot whale 21
 long-finned 272–277, 274
 short-finned 278–283, 280
Platanistidae 17
Platanistoidea 17
 Polar Frontal Zone 11, 12
Pontoporiidae 17
 porpoise 17, 20, 255
Pseudorca crassidens 257–262, 258

R

right whale 1, 17
 pygmy 17, 19, 36–40, 37
 southern 18, 29–35, 32
Risso’s dolphin 21, 242–246, 243
 rorqual whales 17, 19, 75
 rough-toothed dolphin 22, 158–162, 159

S

Saayman, Graham 172
 seasonal pattern 7
 sei whale 64–68, 67
 shark net catches 187
 skulls
 anatomy 24–25
 morphology 16
 Smithsonian Institution’s Natural History Museum 34
Sousa 22
 chinensis 15, 167–173, 168
 plumbea 15
 teuszii 15, 163–166, 164
 South Equatorial Current 7
 Southern African subregion
 key 18–23
 map 3, 3
 Southern Antarctic Circumpolar Current Front (SACC) 12
 Southern Ocean 11
 southern right whale dolphin 22–23,
 238–241, 239
 South Indian Ocean Countercurrent 7

South-West Indian Ridge 13

spectacled porpoise 284–287, 285

sperm whale 17, 83–89, 85

 dwarf 94–97, 95

 pygmy 90–93, 91

 short-headed, sex determination in 17,
 93

spinner dolphin 15, 198–203, 200

spotted dolphin

 Atlantic 15, 193–197, 195

 pan-tropical 15, 188–192, 189

squid 105

Stenella 22

attenuata 15, 188–192, 189
 clymene 15, 204–207, 205
 coeruleoalba 15, 208–212, 209
 frontalis 15, 193–197, 195
 longirostris 15, 198–203, 200

Steno 22

bredanensis 158–162, 159

strandings 102, 211, 259

striped dolphin 15, 16, 208–212, 209

Subantarctic Front (SAF) 12

Subantarctic Zone 11

suborders, key to 18–23

Subtropical Convergence (STC) 7, 11

Subtropical Frontal Zone 11

surface active groups (SAGs) 34

T

tagging, see ‘Discovery’ whale mark

Tasmacetus 20

shepherdi 108–110, 109

Taylor, Colin 172

temperatures 6

toothed whales 17, 18

tuna, purse-seine fishery 191

Tursiops 22

aduncus 181–186, 182

truncatus 174–180, 176

U

Union Whaling Company (Durban) 34

Upper Circumpolar Deep Water 12

upwelling filaments 5, 6

W

weather systems 7

weighing of whales 81

whalebone whales 17, 18

whaling industry 1

white whale 17

Z

Ziphius 20–21

cavirostris 98–102, 101

Ziphidae 17, 19–20, 98–147

Ziphioidae 17