

Index

- Abra* 46, 48, 99
Actinothoe 28, 30, 32, 36
Alaria 27, 30, 34
Alcyonium 13, 26, 28–31, 35, 62–63
 algae 4, 14, 17, 26–29, 31, 33–35, 51–53, 55, 69, 72, 88
 crustose 4, 27, 31, 35, 53
 distribution 19, 24, 27, 34, 43, 66, 94
 growth 15, 16, 26, 30, 39, 67, 95, 105
 micro-algae 16, 39–40, 79
 amphipods 27, 34, 45–6, 60, 62, 72, 74–5, 112
Amphiura 44, 45, 49
 anemones 15, 17, 19–20, 24, 26–28, 32, 40, 55, 67, 77
 arrow-worms, *see* chaetognaths
Ascidia 26, 32
 ascidians, *see* tunicates
Ascidella 26, 33, 51, 57–8, 107–8
Asterias 13, 15, 45, 51, 64, 77, 106
 Atlantic 5–7, 10, 88–90, 104
- bacteria 10–11, 40, 43, 53, 57, 79, 86, 92–4, 97–101, 106
 barnacles 31, 33–5, 56–8, 66, 69, 72, 76
 larvae 81, 83
 benthos 14–15, *see also* communities
 sampling 1, 22, 39
 biogeography 12–13
 bivalves 4, 14–15, 20, 39–40, 44–49, 56, 60, 64–7, 72, 76, 99, 104, 106–7, 111–12
 boring 14, 23, 31, 49
 blennies 13, 27, 38, 51, 67, 86
 Bristol Channel 4, 7, 20, 25, 31, 84, 99
 brittle-stars 15, 19, 28, 35, 38, 44–5, 51, 66, 70, 72, 74–5, 99
 bryozoans 14, 17, 24, 26–27, 30–5, 44, 51, 55, 58, 60, 62, 72–3, 75, 76
Buccinum 15, 44, 51, 60
Bugula 34, 62, 76
 buoyancy 80–81, 86
- Calanus* 83, 85
Callianassa 50–51
 camouflage 68, 86
 capitellids 49, 57, 69, 106
 caprellids 36, 68, 75–6
Caryophyllia 13, 26, 29, 31, 76
 Celtic Sea 45, 85, 103
Centropages 83, 85
- cephalopods 52, 68, 90
Cepola 51
Cereus 26, 48, 67
Cerianthus 15, 41
 chaetognaths 79, 84–85
Chorda 33, 53
Ciona 51, 57–58, 62, 107–108
Clavelina 28, 62
Cliona 13–14, 23
 Cod fishes 27, 33, 88, 90–91, 103
 comb-jellies, *see* ctenophores
 commensalism 71–6
 communities 14–15, 20–21, 78
 in crevices 36–8
 on artificial structures 32–4
 on biotic substrata 35–6, 51–3, 72–7
 on hard rock 24–32
 on pebbles 33–5
 on/in coarse sediments 43
 on/in muds 49–51
 on/in poorly-sorted sands 45–9
 on/in soft rock 23–24
 on/in well-sorted sands 44–5
 community change/stability 59–63
 community development 54–8
 competition 56–8, 65–9, 78
 copepods 40, 51, 79–81, 83–7
Corynactis 13, 17, 24, 28, 30, 32–3, 70
Corystes 15, 45
 crabs 15, 20, 24, 27, 30, 49–50, 53, 68, 70–72, 77, 104
 larvae 80, 83
Crenilabrus 71, 88
 crustaceans 35, 38, 40, 44–7, 53, 59, 67, 70, 103–4
Ctenolabrus 52, 74, 88
 ctenophores 79, 81, 86, 91
 cumaceans 45, 51
- Dahlia Anemone, *see* *Urticina*
 defensive mechanisms 67–9, 86
Dendronotus 34, 73
 deposit-feeding/detrivores 19, 29, 38, 40, 43–51, 53, 75, 93–8
 Devonshire cup coral, *see* *Caryophyllia*
 diatoms 16, 40, 79, 81–4, 97
 dinoflagellates 79, 81–2, 84, 86
 dolphins 91
Dysidea 32, 62

124 *Index*

- Echinocardium* 14, 41, 44–5, 49, 51
 'echinoderms' 35, 40, 44, 46, 60, 67–9
Echinus 13, 15, 24, 29, 63–64, 68, 73, 104, 116
Ecotocarpus 52–3
 eels 33, 89
Electra 34–5, 56, 62
Elminius 56, 58
 English Channel 3–4, 6, 10, 17, 20, 23, 31, 43–5, 51,
 70, 82–3, 89, 100–101, 103
Ensis 14, 41, 44–5, 48
Enteromorpha 34, 52–3
 estuaries 2, 4, 10, 49, 53, 105, 111, 115
 euphausiids 79, 81, 83, 85–6
 eutrophication 104–5
 'exotic' spp. 13, 84, 89–90
 exposure, *see* water movement
- feather-stars 13, 25, 28
Filograna 14, 34
 filter-feeding 19, 23, 26, 29, 36, 38, 44, 48–9, 65–6,
 72, 75, 92–4, 111
 fish 13, 38, 40, 44–5, 58, 59, 68, 70–71, 74, 86–90,
 100–101, 111, 114
 eggs 81, 109
 fisheries 102–5, 115
 flatfishes 43–5, 49, 68, 86, 103, 112
Flustra 30, 31
 food chains 75, 92–101
 'fronts' 9, 81, 85
- Galathea* 15, 38, 44, 53, 74
 gastropods 27, 30, 32, 44, 68, 81, 83
Gibbula 44, 73
Glycera 45, 48
Glycymeris 4, 44
 gobies 27, 50, 74, 86–7, 88
Gobiusculus 19, 74
Grateloupia 29, 35
 grazers/grazing 33, 58, 63–4, 73, 82–4, 85, 93–5
- Haddock 13, 68, 89, 91, 103
Halichondria 30, 75
 heart-urchins 20, 39, 44–5, 49
 heavy metals 108, 110–14
Henricia 13, 32
 hermit crabs, *see* *Pagurus*
 herrings 87, 89, 103, 115
Hiatella 23, 31, 72, 76
 holothurian, *see* sea-cucumber
 hydroids 15, 17, 19, 24, 26–30, 32, 34–5, 44, 51, 53,
 55–8, 62, 69, 72, 75
- Inachus* 44, 71
 indicator species 20, 84, 112, 115
 inert wastes 106–8
 infauna 23–5, 39–41, 44–51
 interspecific behaviour/relationships 56, 71–7, 91
 intraspecific behaviour/relationships 56, 70–71, 86
 Irish Sea 2–3, 7, 9–10, 45, 47, 103, 113
 isopods 27, 45
- Jewel Anemone, *see* *Corynactis*
- K-strategists 69–70, 82
 keel-worm, *see* *Pomatoceros*
 kelp 15, 17, 19–20, 24, 66, 72, 74
 forests 17, 24, 27–9, 64, 93, 95
- Lagis* 41, 48–9
Laminaria 20, 24, 26–8, 33–4, 59, 64, 66–7, 72–3,
 75, 95, 97
Lanice 15, 42, 48
 light 9–10, 15–17, 43, 106
Liocarcinus 44, 49
Liparis 74
 lobsters 14–15, 64, 70, 104–5
Luidia 44, 49
 Lusitanian current/biota 6, 13, 84
- mackerel family 86–9, 90–91, 103
Macoma 48
Macropodia 44, 49
 maerl 53
 mariculture 102, 104
 marine nature reserves 116
 Masked Crab, *see* *Corystes*
Maxmulleria 42
 medusae 79, 81, 85, 86, 91
 meiobenthos 40–42, 51
Membranipora 73, 75
Metridium 19, 28–9, 31, 32, 64, 67, 69, 77
 micro-algae, *see* algae
 micro-organisms 40, 51, 57, 79, 93–4, 109
 migration 70, 81, 89
Modiolus 14, 51, 77, 99
Molgula 14, 24, 56
 monitoring 59, 110, 114–16
 mussels, *see* *Mytilus* and *Modiolus*
 mysids 80
Mytilus 14, 32, 51, 56, 64–65, 69, 77, 106, 112–13
Myxilla 32, 62
- Nassarius* 44, 74–5
Natica 15, 42, 45–6
 nekton 78, 86, 96
 nematodes 40, 51, 72
Nemertesia 30, 32, 35–6, 56, 59, 68, 75
Nephrops 14, 50, 71, 103
Nephtys 42, 45, 48
Nereis 34, 74
 North Sea 2–4, 6–7, 10, 20–21, 33, 44, 51, 84, 87,
 89–90, 100, 103–5, 109, 113, 115
Nucula 41, 44, 46, 48, 50
 nudibranchs 15, 27, 34, 56, 60, 63, 68–9, 73
- Obelia* 34, 62, 73
 offensive mechanisms 67–9
 oil platforms 32–4, 57, 64, 66, 109–10, 115
 oil pollution 108–10
Omalosecosa 32, 34
Ophiocomina 44, 51
Ophiopholis 38, 51–2, 74–5
Ophiothrix 15, 19, 28, 29, 35, 44, 51, 66, 70, 72, 99
Ophiura 44–5
 opportunistic species/strategies 33, 61, 62, 69, 82
 organic matter 11, 20, 42–3, 79, 94, 96–9
 ostracods 80, 86
 oxycline 11, 18, 27, 59
 oxygen 10–11, 105
- Pagurus* 31, 33, 40, 45, 51–3, 77
Parablennius 15, 24, 33, 67
Patina 64, 73
Pausonia 15, 38
 PCBs 110–11, 113

- Pentapora* 14, 32, 75
 pesticides 110–11, 113
Phallusia 26, 36
Philine 49
Pholas 23, 31
Pholis 45, 74
 photic zone 10, 15
 phytoplankton 15–16, 63, 79–84, 86, 93–101, 105
Pilumnus 24, 53
Pisidia 53, 74, 76
 plankton 1, 10, 17, 69, 78–80, 92, *see also*
 phytoplankton, zooplankton
 Plumose Anemone, *see Metridium*
Plumularia 32, 75
 polychaetes 14–15, 23–4, 27, 32–4, 40, 42, 44–9, 51,
 57–8, 60, 64–5, 67, 74–5, 80–81, 101, 112
Polydora 23, 32, 46, 49
Pomatoceros 30, 31, 33–5, 56, 62, 66, 69, 76
 prawns (and shrimps) 38, 40, 45, 86, 103
 predation/predators 33, 46, 58, 63–4, 84, 92
 production
 primary 15, 94–7, 106
 secondary 96–101
 protozoans 51, 79, 93–4

 r-strategists, *see* opportunistic species
 radioactive wastes 113–14
 recruitment 55–6

Sabella 15, 41
Saccorhiza 74
Sagartia 26, 30, 32, 67
Sagitta 84–5
 salinity 10
 effects on biota 20, 84
 gradients 2, 10
 Salmon 70, 89, 103
 sand eels 45, 88–91, 103
Sargassum 33
 scallops 44, 51, 103
 scorpionfish 27, 68, 86
 Scotland/Shetland 2–4, 17, 26, 34, 45, 53, 74, 103
 sea lochs 2, 7, 11, 18, 25, 27, 49, 104
 sea-bed
 depth contours 3
 features 3–4, 7, 13–15
 rocky 3–4, 22
 sediment 3–4, 39–43
 sea-cucumbers 13–15, 19, 38, 44, 49–51
 sea-fans 26, 29, 68, 116
 seagrasses 52, 67, 94, 97
 sea-pens 15, 50
 sea-potato 14, 44
 sea-squirts, *see* tunicates
 sea-slugs, *see* nudibranchs
 sea-urchins 13, 15, 24, 27, 30, 44, 63
 seals 90–91

 sedimentation 18–19, 25–6, 25–6, 29, 37, 58, 105–7,
 109, 115
Sepiolo 52–3
Sertularia 32, 76
 settlement of larvae 19, 56–7, 61–2, 69
 sewage 105–6, 111–14
 shading 17, 28, 36–8, 66
 sharks 87, 103, 116
 shrimps, *see* prawns
 siphonophores 13, 79, 81, 83–4, 91
Solaster 44, 51–2
 spider crabs 15, 71
 sponges 13–14, 19–21, 23, 26–7, 29, 31–2, 34–5, 55,
 58, 62, 65, 75
 squat lobsters, *see Galathea*
 starfish 13, 15, 27, 29–30, 40–41, 44, 52, 64
 stratification 9–11, 82
Suberites 14, 26
 succession 55, 57–8, 82–4
 suspension-feeding, *see* filter-feeding
 symbiosis 71, 77

 temperature 8–9, 12
 terebellids 19, 49
 thermocline 9–10
Thorogobius 24, 38
Tomopteris 81, 86
 toxic wastes 110–15
Tripterygion 13
Tritonia 56, 68
Tubularia 28, 30, 33–4, 60, 63, 69
 tunicates 14–15, 19, 24, 26–8, 31–2, 55–8, 62, 65,
 72, 75
 pelagic 13, 79, 83–4, 91
 turbidity 10, 18, 20, 26, 106, 115

Upogebia 44, 51
Urticina 29, 32–3

Venus 44–5, 99, 106

 water movement
 effects on benthos 18–20, 25–33, 36–7, 45, 53,
 57–8, 75–6
 effects on plankton 17, 78, 80–82
 effects on sediments 4, 18, 42–6
 ocean currents 5
 tidal currents 7
 turnover in water column 9, 18, 93
 waves 7–8
 water quality 10–11, 20
 whales 91
 wrasses 27, 33, 52–3, 71, 74, 88

 zonation 16–17, 43
 zooplankton 63, 79–85, 91, 93–101
Zostera 52–3