

Index

- acid rain, 114–16
- acts of God, 169–70
- Addison, Joseph, 69, 123
- aesthetics, 124, 243
- Africa, first humans, 21, 24, 25, 246
- African archaeological record, 30
- Age of Reason, 75
- agnosticism, 141
- agriculture. *See* farming
- AIDS, 52
- air pollution
 - acid rain and the ozone hole, 114–16
 - clean air legislation, 110–14
 - death rates, 109
 - through the years, 109–10
- Aldrovandi, Ulisse, 66
- Alexander the Great, 65
- algal blooms, 206
- alkali industry, 112
- Allen, David, 125
- Alliance of Religions and Conservation, 207, 209
- altruism, 38
- anaerobic digestion, 203
- animals
 - diseases, 21
 - first, 20
 - first domesticated, 26, 37
- Antarctic whaling industry, 107
- anthracite, 112
- Anthropic Principle, 238
- Anthropocene epoch, 172
- antibiotic resistance, 22
- Apothecaries' Act 1815, 127
- Aquinas, Thomas, 30, 66, 103, 225, 251
- Aristotle, 64–66, 225, 250
 - reductionism, 231
 - scientific methods, 64
 - translation into Arabic and Latin, 65
- Armstrong, Edward, 98
- Arnold, Matthew, 139
- Arrhenius, Svante, 176
- Ashby, Eric, 222, 224
- Assisi Declarations, 209, 234
- Attenborough, David, 100, 160
- Audubon, John James, 44
- Augustine of Hippo, 65
- awe, attitudes of, 215, 244, 245f11.1A-C, 252
- Ayala, Francisco, 38, 45
- Babbage, Charles, 135, 136
- Bach family, 15
- Bacon, Francis, 251
- Bacon, Roger, 251
- bacteria
 - antibiotic-resistant, 22
 - soil, 42
- balance sheet, ecosystem, 204
- Banks, Joseph, 82, 82n9, 97, 119, 132
- Bartholomew I of Constantinople, 209
- Basil of Caesarea, 65
- BBC Natural History Unit, 160
- Beagle*, HMS, 83, 86, 87, 89, 134, 135
- Beddington, Sir John, 22
- Belon, Pierre, 66
- Benedictines, 109
- Bentley, Richard, 79
- biblical flood, 68, 71–72, 77
- biodiversity
 - Convention on, 200
 - economics of, 202
- biological inheritance, 40, 41
- biology
 - observational, 65, 66, 74f4.2
 - scientific study of, 103–30
 - sociobiology, 38–41
- biophilia, 238, 239
- birds
 - Galapagos finches, 94
 - publishing, 167–68
 - sea bird deaths from oil spills, 166
- Black Death, 52, 60
- blood groups, 36
- Bohr, Niels, 255
- Bonhoeffer, Dietrich, 45

258 INDEX

- Bookchin, Murray, 187
 botanical arithmetic, 83
 Botanical Exchange Club, 128
 Boulding, Kenneth, 189
 Boyle Lectures, 79
 Boyle, Robert, 79, 104
 brain size, 28–29
 brain, mind interactions, 31
 Brewster, Sir David, 135, 136
 Bridgewater Treatises, 127
 Britain
 lack of research facilities, 143
 National Ecosystem Assessment, 202
 natural capital, 203
 protection of nature, 153–68
 response to World Conservation Strategy, 221–24
 social unrest in 1800, 127
 sustainable development strategy, 198
 British Association, 136–37, 139, 142, 145
 British Ecological Society (BES), 128, 147, 157
 British Trust for Ornithology, 163
 Brower, David, 44n2
 Browne, Sir Thomas, 73–75, 123
 Brundtland, Gro Harlem, 193
 Buch, Leopold von, 83
 Büchner, Ludwig, 17
 Burdon-Sanderson, John, 16, 146
 Burke, Edmund, 241
 Burnet, Thomas, 68–69
- Calvin, John, 103
 Cambrian explosion, 20
 canals, irrigation, 56
 cannibalism, 52
 Capability Brown, 63
 Capra, Fritjof, 173
 carbon dioxide, atmospheric, 174, 175, 176–77, 230
 carbon footprint, 181
Caring for the Earth, 195, 197, 199
 carrying capacity, 196–97
 Carson, Rachel, 165, 187–88, 244
 catalytic converters, 115
 catastrophes. *See* disasters
 cause and effect, 231
 Cavendish Laboratory, Cambridge, 248, 250
 cereal crops, 60, 188
 cerebral hemispheres, 28
 cerebrum, 28
- Chadwick, Owen, 17
 Chambers, Robert, 92
 Charleton, Walter, 76
 Chesterton, G.K., 242
 chimpanzees
 development, 28
 genome, 27
 chlorofluorocarbons (CFCs), 115–16
 choices, 1–19
 cholera, 53–55
 Christianity, 51, 85, 236–38
 chromosome pairs, 27
 chronometry, 134
Cinchona tree, 119
 Clare, John, 61
 Clean Air Acts, 110, 113f5.1B, 114
 clean air legislation, 110–14
 Clements, Frederic, 225
 climate change, 22, 24, 55, 176–78, 230
 Convention on, 199
 effects of, 55
 Intergovernmental Panel on, 177, 200
 over the years, 58–59
 Paris Agreement, 116
 Clutton-Brock, Tim, 24
 Cobbett, William, 60, 127
 cod fishing, 107, 206
 Code of Environmental Practice, 194
 Cohen, Joel, 197
 Coleridge, Samuel Taylor, 85, 126, 136
Collapse (Diamond), 185, 224, 229
 Collins, William, publisher, 160
 colonisation, Eurasia, 21, 25
 Common Agricultural Policy, 101
 common good, 2
 common land
 enclosure, 61, 105, 153
 tragedy of the, 106–07
 Commons, Open Spaces and Footpaths Society, 153
 communities, origins of, 49
 Companies' Act 1862, 108
 complementarity, 255
 computer simulations, 189
 conflict, throughout history, 21
 consciousness, 31–32
 Constable, John, 126
 continental drift, 232
 Convention on Biological Diversity (CBD), 200
 Convention on Climate Change, 199

- Cook, Captain James, 82, 82n9, 120
 map-making skills, 134
 cooperation in humans, 25, 29
 Copernicus, Nicholas, 12
 coral reefs, 205
 Corn Laws, 118, 230
 Corresponding Societies, 145
 Coulson, Charles, 69n5, 256
 Council for Environmental Conservation
 (CoEnCo), 164
 Council for Nature, 159, 164
 Countryside Commission, 162
 Countryside in 1970 conferences, 162, 189
 Creutzfeldt-Jakob disease, 52
 Crick, Francis, 1, 3, 14, 31, 249
 crops. *See also* farming
 cereal, 60, 188
 key food, 48f3.1
 potato, 59, 105, 119
 productivity, 203
 rotation, 60
 sugar cane, 119
 cultural inheritance, 40, 41
 cultures, collapse of, 185
 Cupitt, Don, 87
 Cuvier, Baron Georges, 77
- Daisyworld model, 175
 Darwin, Charles, 4, 12, 15, 85, 87–89, 130
 Aristotle, thoughts on, 64
 Beagle voyage, 83, 86, 87, 89, 135
 big idea, 227
 Descent of Man, 23, 26, 38, 40
 development of ideas, 94
 Hooker friendship, 89, 91
 Humboldt, inspired by, 83
 influences on, 90, 91–94
 Lyell friendship, 89
 natural selection, 138
 On the Origin of Species, 89, 92, 95–96,
 137, 251
 Paley's influence on, 85
 White's *Selborne*, 126
 Darwin, Erasmus, 15
 Dawkins, Richard, 17, 175, 244, 252
De Fabrica Humani Corporis (Vesalius), 11
De Revolutionibus Omnium
 (Copernicus), 12
 dead reckoning, 134
 death rates, pollution, 109
 Declinist Movement, 135, 141, 142
- Defoe, Daniel, 122, 125n1
 deforestation, 206
 Delors, Jacques, 193
 Dennett, Daniel, 32
 Derby, Lord, 111
 Derham, William, 80
 Descartes, René, 30
Descent of Man (Darwin), 23, 26, 38, 40
 desertification, 206
 development without destruction, 43
 Devonshire Commission, 142–43
 Diamond, Jared, 185, 224, 229
 dimethyl sulphide, 175
 dinosaurs, 20
 disasters, 232
 environmental attitudes and, 10
 man-made, 171–72
 maritime, 134
 natural, 169–71
Discourse on Inequality (Rousseau), 105
 diseases, 52–55
 animal, 21
 human, 22, 206
 doctrinaire reductionism, 231
 dogmatism, 254
 Dohrn, Anton, 144
 Doll, Richard, 232
 domestic fires, legislation, 112
 domesticated animals, first, 26, 37
 Douglas, David, 120
 Drummond, Henry, 69n5
 dryland ecosystems, 204, 206
 dualism, 17, 30
 Dubos, René, 42–43, 238
- Earth
 caring for, 195, 197, 199
 carrying capacity, 197
 evolution, 20
 Earth Charter, 211–13, 240t10.1
 Earth Day, 165, 232
 Earth Summit. *See* UN Conference on
 Environment and Development
 (UNCED)
 earthquakes, 170
 Easter Island, 171
 Ebola, 53
 ecological footprinting, 180–82
 Ecological Society of America (ESA), 147
 ecology, 16, 83, 146
 integrity of, 212

260 INDEX

- Economic Summit Nations (the G7)
 conference, 193–94
- economics
 biodiversity, 202
 ecosystems, 202, 203, 206
 interest on loans, 103
 sustainable, 196
- ecosystems
 definition, 226
 degradation of, 206
 equilibria, 225–27
 freshwater and coastal, 206
 Millennium Assessment, 200,
 201, 203–07
 monetary value, 202, 203, 206
 services, 2, 201–07
- Edinburgh, Duke of, 161, 221, 234
- Education Act 1870, 128
- Egerton, Reverend Francis, 86
- Ehrlich, Paul and Anne, 188
- Einstein's theory of relativity, 41n5
- elites, 49
- Elton, Charles, 226
- emigration, 180
- enclosures, 61, 105, 153
- Endeavour*, HMS, 82
- energy, need for, 3
- English Heritage, 160
- Enlightenment
 global consciousness and, 119
 key contributors, 119
 period of, 116
- environment. *See also* ecosystems, nature
 Code of Practice, 194
 religion and the, 207–10
 right and wrong attitudes, 221
- environmental attitudes
 1960s, 189
 20th century, 163, 163f7.3
 Highland Clearances, 4–8
 over time, 9
 railways, 9
 sanitation of, 169
- environmental damage, 214
 causes of, 233
- environmental ethics, 193–94, 195, 208
 British report on, 224
- environmental impact assessment, 216
 See also Millennium Ecosystem
 Assessment (MA)
- Environmental Law Commission, 213n8
- environmental literacy, 183
- Environmental Protection Agency
 (EPA), 188
- environmental rights, 216–19
- epidemics, 52, 53–55
- epigenetics, 28
- epilepsy, 31
- equilibria, ecosystems, 225–27
- ethics. *See* environmental ethics
- Ethics Working Group (EWG), 195, 213n8
- ethnicity, 25, 35
- Eurasia
 colonisation, 21, 25
 key food crops, 48f3.1
- European colonists, North America, 51
- eusociality, 41
- Evelyn, John, 109, 123
- evolution
 acceptance of, 137–39
 Earth, 20
- extinction of experience, 247
- family size, 185
- famines, 59, 170
- farming. *See also* crops
 developments in, 59–61
 environmental impact, 236
 evolving practice of, 7
 mechanisation of, 60, 63
 northern spread of, 58
 open field, 49, 50f3.2
 origins of, 27, 37, 45, 47–49
 post-Norman conquest, 49–51
- Fertile Crescent, 27, 48f3.1
- feudal system, 49, 60
- field collections, 127
- fire, making, 26, 41
- Fisher, James, 160
- fishing
 cod fishing, 107, 206
 sea fishing, 143
- Fitzroy, Robert, 134
- flooding, 55
 biblical, 68, 71–72, 77
 control of, 203
- Flower, William, 144
- Forest Laws, 49
- forests, 206, 207
- Forster, Georg, 82
- fossil fuels, 181, 230
- fossil record, 77–79

- Foster, Michael, 128
FOXP2 gene, 33
 frontiersmen, 51
 Fuller, Buckminster, 189
 fundamentalism, 138
- Gaia hypothesis, 173, 174–76, 255n17
 Galapagos finches, 94
 Galen, 67
 Galileo, Galilei, 67
 Galton, Francis, 15
 game theory, 17
 Gandhi, Indira, 192
 Geddes, Patrick, 43n2, 64
 gene mutations, 28, 33
 General Enclosure Acts, 61, 153
 genetics, 27, 138, 253
 genius, hereditary, 15–16
 genome, 27
 geological strata, 77
 Germany
 funding for science, 137, 143
 journal publications, 147
 Gesner, Konrad, 66
 Gilpin, William, 121, 122
 global warming. *See* climate change
 God
 acts of, 169–70
 Newton thoughts on, 70
 relationship to creation, 69
 Goethe, Johann Wolfgang von, 122
 Golden Rule, 40
 Golding, William, 175
 Gorbachev, Mikhail, 211
 Gould, John, 92, 94
 Gould, Steven, 173
 government
 nature, protection of, 153–68
 science and, 132–52
 science, lack of funding for, 143
 sustainable development strategy, 198
 grants, 135, 136, 144
 Graunt, John, 109, 111
 Gray, Asa, 130
 Great Fire of London, 61
 Great Plague, 53
 Greeks, ancient, 30
 greenhouse gases, 176, 181 *See also* carbon dioxide, atmospheric
 Gregory, David, 79
 Gross Domestic Product (GDP), 2
- Haldane family, 15–16
 Haldane, J.B.S., 14, 16, 39, 254
 Hale, Lord Chief Justice, 72
 Halley, Edmond, 68
 Hamilton, W.D., 39
 Hardin, Garrett, 107
 Hardy, Alister, 24
 Harrison, John, 134
 Harvey, William, 31, 67
 Helm, Dieter, 3n1
 Henslow, John Stevens, 90
 hereditary genius, 15–16
 Herschel, William, 85
 Highland Clearances, 4–8
 Hill, Octavia, 153
 Holocene Climate Optimum, 58
Homo habilis, 21
Homo sapiens, 21, 26, 172
 Hooke, Robert, 77
 Hooker, Joseph, 4, 83, 89, 91, 93, 141, 149, 252
 Hossein Nasr, Seyyed, 100
 Hoyle, Fred, 238
 Hudson, W.H., 163
 human genome, 27
 humanness, 29–30
 language and, 32
 racial groups and, 35
 three conditions for, 38
 humans
 cooperation, 25, 29
 deaths from air pollution, 114
 diseases, 22, 206
 first, 21, 24–27, 246
 genetics, 27
 impact on natural resources, 178–80
 population explosion, 48, 188
 well-being, 198–99, 202, 205, 223, 247
 Humboldt, Alexander von, 82–84, 95, 146, 185, 255, 255n17
 Hunter, Robert, 153
 hunter-gatherers, 45, 47–49
 Hurricane Katrina, 55
 Hutton, James, 121
 Huxley, Aldous, 31
 Huxley, Julian, 42n6, 160, 168, 187, 243
 Huxley, Thomas Henry, 91, 141–42, 143, 151
 Oxford debate, 148–49
 hydrochloric acid, 112

262 INDEX

- Ice Age, 26, 59
- inclusive fitness, 39
- Indian Ocean tsunami (2004), 101
- industrialization, 61
- inheritance, 40, 41
 - genius, 15–16
- Intergovernmental Panel on Climate Change (IPCC), 177, 200
- International Covenant on Environment and Development (ICED), 210, 213
- International Environmental Law Commission, 195, 210
- International Union for the Conservation of Nature (IUCN), 163, 168, 191, 192, 195, 213n8, 233
- Introduction to Entomology* (Kirby), 127, 130
- irrigation, 206
- James, William, 253
- Jameson, Robert, 90
- Jefferies, Richard, 163
- Jefferson, Thomas, 36, 217
- Jones, Steve, 253
- journal publications, 147
- Justice, Peace and the Integrity of Creation Programme (JPIC), 208
- Kant, Immanuel, 217
- Keeling Curve, 177f8.1
- Kellert, Stephen, 240t10.1
- Kellogg, Vernon, 138
- Kepler, Johannes, 253
- Kew Gardens, 82, 119, 120
- Keynes, Maynard, 2
- kin selection, 39, 41
- Kingsley, Charles, 129, 138, 243
- Kirby, William, 127, 130
- Kraft und Stoff* (Büchner), 17
- Küng, Hans, 208
- kuru (disease), 52
- lactase, 36
- Lake District, 122, 125f5.2B, 154
- Lamarck, Jean-Baptiste, 91–92
- land ownership, 108
- language
 - and cooperation, 25
 - complexity of, 32
- Laplace, Marquis de, 255
- latitude, measuring, 133
- Latitudinarian theologians, 79
- Laudato Si'* (Pope Francis), 209, 223, 235
- Leavis, F.R., 151
- legislation, 232
 - clean air, 110–14
 - environmental attitudes and, 10
 - protection of nature, 153–68
- Lewis, C.S., 248
- libertarians, 230
- lichens, 114
- life, definition of, 174
- Limits to Growth*, 189, 190
- Linnaeus classification, 65, 73, 82
- Linnaeus, Carl, 72, 80
- Linnean Society, 121, 127
- Little Ice Age, 59
- Lloyd, William Forster, 106
- loans, interest on, 103
- Locke, John, 69, 104
- London smog, 112, 114
- London taxi drivers, 31
- longitude, measuring, 133, 134
- Lovelock, James, 173–76
- Low, George, 98
- Lowe, Richard, 96
- Lubbock, John, 140f6.1, 142
- lung cancer, 232
- Lütken, Otto, 184, 185
- Lyell, Charles, 89–90, 135
- Mabey, Richard, 100, 192
- MacDonald, Ramsay, 156
- MacKay, Donald, 256
- Mackenzie, Murdoch, 133
- mad cow disease, 52
- Magnus, Albertus, 66
- malaria, 36
- Malthus, Thomas, 94, 196
- Man's Impact on the Global Environment*, 189, 201
- man-made disasters, 171–72
- manufactured attitudes, 150f6.3, 249f11.2
- map-making, 132–33, 134
 - vegetation, 128, 146
- Marine Biological Associations, 144
- maritime disasters, 134
- market fundamentalism, 2
- Mars, life on, 174, 175
- Marshall, Tim, 242

- Martin, William Keble, 98
 Matthew, Patrick, 95
 Mauna Kea, Hawaii, 177
 Maxwell Davies, Peter, 243
 Maxwell, James Clerk, 248
 meat-eating, 28, 29
 Medawar, Peter, 12, 64n2, 231, 234, 254
 Medieval Warm Period, 59
 mental capital, 202
 Merchant Shipping Act 1876, 118
 metaphysical questions, 14, 234, 252, 254
 milk, digestion, 36
 Mill, J.S., 108
 Millennium Development Goals, 204
 Millennium Ecosystem Assessment (MA),
 200, 201, 203–07
 balance sheet, 204
 drylands, 204, 206
 nonlinear changes, 204
 nutrient loading, 204, 206
 mind, 30–31
 theory of, 35
 Mitchison, Naomi, 16
 molecular revolution, 139
 Moltmann, Jürgen, 208
 monastic communities, 51, 108
 Monsal Head viaduct, 8
 moral duty, 45
 moths, camouflage, 114
 Mount Ilopango eruption, 57
 Mount Tambora eruption, 57
 Muir, John, 98, 165, 217
 Musson, Frances, 120

 National Ecosystem Assessment, 202
 National Nature Week, 160
 National Parks, 156, 157
 National Parks and Countryside Act
 1949, 157
 National Trust, 64, 154, 160
 natural capital, 2, 182f8.2B, 202
 in Britain, 203
 living off, 207
 natural disasters, 169–71
 natural history
 dismissal of, 145
 societies, 127, 145–46
 Natural History Museum, London, 248
Natural History of Selborne (White), 81f4.4,
 98, 129

 natural resources
 ecological footprinting, 180–82
 human demand on, 178–80
 natural science
 and religion, 72, 75
 degrees, 139
 natural selection, 36, 94, 95, 138
 natural theology, 76, 85, 86, 103
 naturalists
 dismissal of, 145
 parsons, 97
 Naturalists' Trust, 158, 164
 nature
 deification of, 75
 protection of, 153–68
 rights of, 216–19
 romanticism and wilderness, 122–24
 scientific study of, 109, 119–22
 study of, 63–101
 Nature Conservancy Council, 157n2, 158,
 159, 164, 186, 221
 nature reserves, 154–56, 157
 nature *versus* nurture, 3
 navigation at sea, 133–34
 Neanderthals, 25–26
 Neolithic revolution, 27, 37, 45, 47
 net primary production (NPP), 178, 180
 neuroscience, 14
 New Naturalist books, 160
 Newfoundland cod fishing, 107, 206
 Newton, Sir Isaac
 physico-theology and, 79
 scientific discoveries, 68
 thoughts on God, 70
 Wordsworth on, 122
 Nicholson, Max, 162, 163–64, 222, 237, 242
 nonlinear ecosystem changes, 204
 Norman conquest, 49
 North America, European colonists, 51
 nutrient loading, 204, 206

Observations on the River Wye (Gilpin),
 121, 122
 ocean navigation, 133–34
 Oelschlaeger, Max, 237
 oil spills, 166, 232
 Oliver, Frank, 154, 155
 ontology, 10
 open field farming, 49, 50f3.2
 operational reductionism, 231

264 INDEX

- Ordnance Survey, 133, 135
On the Origin of Species (Darwin), 89, 92,
 95–96, 137, 251
 ornithological publishing, 167–68
 Orwell, George, 182
 Ottawa Protocol 1987, 116
Our Common Future (Brundtland
 Report), 193
 overgrazing, common land, 106
 Oxbridge, natural sciences at, 139
 Oxford Museum of Natural History,
 249f11.2
 oxygen, atmospheric, 175
 ozone hole, 114–16
- Paley, William, 84–85
 palm oil, 183
 Palmerston, Lord, 111
 Paris Agreement, 116
 parson-naturalists, 97
 Pasteur, Louis, 55
 Peak District, railways, 8
 Peccei, Aurelio, 189
 Pennant, Thomas, 98, 167
 peppered moth (*Biston betularia*), 114
 Perez de Cuellar, Javez, 195
 perfect storm, 22, 23f2.2, 221
 pest control, 203, 206
 pesticides, 186, 187–88, 206
 Peterloo Massacre, 58, 127, 230
 Peterson, Roger, 160
 Peyrère, Isaac de la, 72
 Phillips, John, 225
 philosophical institutions, 136
 physico-theology, 76, 79, 85
 Pinchot, Gifford, 99
 Pippard, Sir Brian, 249
 Pizarro, Francisco, 53
 plague, 52
 plants. *See also* crops
 diseases, 22
 non-native, 119–20
 Plato, 11, 30, 65, 65n3, 72
 Playfair committee, 142
 Playfair, Lyon, 142
 Plimsoll Line, 119, 230
 Plimsoll, Samuel, 118, 230
 pollination, 203, 206
 polluter pays principle, 216
 pollution. *See* air pollution
- polygenicity, 36
 Polynesian rat (*Rattus exulans*), 171
 Poore, Duncan, 191
 Pope Francis, 210, 218, 223, 235
 Pope John Paul II, 30, 45
 Popper, Karl, 38
 population explosion, 48, 188
 Porter, Roy, 75
 positioning systems, 133
 potato crop, 59, 105, 119
 poverty, eradication, 214, 215
 power stations, coal burning, 114, 115
 Praeger, Robert Lloyd, 128, 146
PRDM9 gene, 28
 precautionary principle, 216
 Prescott-Allen, Robert, 191
 property rights, 104
 unfettered, 108
 protected areas, 232
 protected nest, 41
- quality of life, 197, 198
 indicators, 199
- railways, 64
 building the, 8–9
 rationality, 109, 116
 overriding of, 117
 Raven, Charles, 98
 Rawnsley, Hardwicke, 154
 Ray, John, 67, 70, 73, 76, 80, 97, 167
 reductionism, 231–32
 Reform Act 1832, 127
 regulations, for survival, 172–84
 religion. *See also* Christianity, natural
 theology, physico-theology
 and natural science, 72, 75
 and science, 87, 147–51, 248–52, 255, 256
 attitudes formed by, 236–38
 deification of nature, 75
 environment and, 207–10
 Renaissance man, 66, 74
 responsibilities, 216, 221, 235
 revealed theology, 76
 rhododendrons, 120
 rights, environmental, 216–19
 Rio Declaration, 199, 211, 213
 Robertson, David, 144
Robinson Crusoe (Defoe), 125n1
 Robinson, Bishop, 17

- Roman Catholics, 30, 209
 Romanticism, 122–24
 Rondelet, Guillaume, of Montpellier, 66
 Roosevelt, Theodore, 44
 Rothschild, Charles, 154, 155
 Rousseau, Jean Jacques, 105, 122
 Roy, William, 132
 Royal Commission on Environmental Pollution, 222
 Royal Commission on Unseaworthy Ships, 118
 Royal Forests, 153
 Royal Society, 105, 120, 132
 governance of, 135
 grants to, 136
 reforming of, 141
 suspiciousness of amateurs, 144
 Royal Society for the Prevention of Cruelty to Animals (RSPCA), 154
 Royal Society for the Protection of Birds (RSPB), 154, 160
 Ruskin, John, 8, 44, 63, 123–24
 Russell, Bertrand, 11
- Sagoff, Mark, 219
 salamander, 29
 schizophrenia, 31
 Schumacher, Ernst, 182
 science. *See also* natural science
 and religion, 87, 147–51, 248–52, 255, 256
 beginning of, 11–15
 government and, 132–52
 metaphysical curiosity, 252
 profession of, 137
 reductionism, 231–32
 scientific study
 biology, 103–30
 natural world, 109, 119–22
 scientist, coinage of term, 136
 Scopes, John, trial, 149
 Scott Committee, 157
 Scott Report 1942, 157
 Scott, Peter, 159, 191
 scurvy, 231
 sea birds, deaths of, 166
 sea fishing, 143
 sea levels, rising, 55
 seafarers, navigation, 133–34
 seasonal fluctuation, 56
- Sedgwick, Adam, 90
 Selborne Society, 154
 self-consciousness, 32
 Sellar, Patrick, 6
 Seneca, 109
 Shaftesbury, Earl of, 118, 230
 ship safety, 117–19
 Shovell, Sir Cloudesley, 134
Silent Spring (Carson), 187–88
 Simeon, Charles, 15
 Skara Brae, Orkney, 55
 Sloane, Hans, 120
 smallpox, 53
 Smith, Adam, 107
 Smith, James Edward, 121, 127
 Smith, William, 77
 Smoke Abatement Act 1926, 112
 Smoke Nuisance Act 1853, 111
 smoking, 232
 Smuts, Jan Christian, 225
 Snow, C.P., 150
 Snow, John, 53
 social intelligence, 34
 Society for the Promotion of Nature Reserves (SPNR), 154, 156, 158
 sociobiology, 38–41
 soil bacteria, 42
 soil degradation, 203
 Solander, Daniel, 82
 soul, 30–31
 Southwood, Richard, 227, 228f10.1A
 sovereign rights, 200
 Spottiswoode, William, 140f6.1
 St Kilda archipelago, 156
 stamps, commemorative, 161
 Stazione Zoologica, Naples, 144
 Steno, Nicolas, 77
 stewardship, 208, 216
 Stockholm conference. *See* UN Conference on the Human Environment (1972)
 Stone, Christopher, 218
 Stoppard, Tom, 17
 Strong, Maurice, 211
 Stubbs, George, 126
 sugar cane, 119
 sulphur dioxide, 114, 116
 Superstorm Sandy, 55
 supralaryngeal pathway, 33–35
 survival, factors, 227
 sustainability, 2n1, 192

266 INDEX

- sustainable development, 43
 achieving, 214
 definition, 193, 195
 strategy for, 199
 Sustainable Development Goals (SDGs), 205
 sustainable economy, 196
 sustainable growth, 196
 sustainable living, 213–15
 sustainable use, 196
 Sutherland, Duke of, 4
 Swift, Jonathan, 255
 Swing rioters, 61
- Tansley, Arthur, 128, 146, 155, 226, 243
 taxidermy, 168
 technology, and environmental attitudes, 10
 teeth, 28, 29
 television, nature programmes, 159
 Temple, Frederick, 138
 Tennyson, Alfred, 130
 Thames, freezing of, 59
 Thatcher, Margaret, 45
 The Economics of Ecosystems and
 Biodiversity (TEEB), 202
 theologians
 antipathy to Aristotle, 65–66
 Latitudinarian, 79
 theology. *See* natural theology,
 physico-theology
 theory of mind, 35
 think globally, act locally, 43
 Thomson, Arthur, 145
 Thomson, E.P., 129
 Thoreau, Henry, 99
 tipping point of 1543, 12, 64
 tipping point of 1859, 89, 137–39
 tool-making, 26, 28
 towns, origins of, 51
 Townshend, Charles ‘Turnip’, 60, 63
 Tradescant, John, 120
 tragedy of the commons, 106–07
 transcendent answers, 13
 Trevelyan, George, 117, 124, 235
 triangulation mapping, 133
 tsunami, 55, 101, 170
 Tull, Jethro, 60, 63
 Turner, J.M.W., 63
 Turner, William, 66, 167
 Two Cultures, 147–51
 Tyndall, John, 140f6.1, 142
 typhoid, 52
- UN Conference on Environment and
 Development (UNCED), 45, 177, 195,
 199, 211, 213
 UN Conference on the Human Environment
 (1972), 43, 188, 189, 190–91, 213
 series of principles, 190
 UN Environmental Programme (UNEP),
 188, 191, 192, 200, 202, 221
 Universal Declaration of Human Rights,
 195, 208, 217
 Ur (city), 56
 US National Partnership for the
 Environment, 209
 Ussher, Archbishop of Armagh, 77
 usury, 103
 utopian vision, 64
 UV radiation, 115
- value (moral) judgements, 38
 values, perception of, 101
 vegetation mapping, 128, 146
 Vesalius, Andreas, 11, 67
 villages, early settlement days, 49, 50
 volcanic eruptions, 56–58
 Von Buch, Christian, 96
- Waddington, C.H., 42n6
 Wallace, Alfred Russel, 95
 Walt Disney Enterprises, 218
 Ward, Barbara, 43
 Warfield, B.B., 138
 Warming, Eugene, 146
Water Babies (Kingsley), 243
 water purification, 203
 Watson, Jim, 249
 well-being, 198–99, 202, 205, 223, 247
 Wells, William, 95
 Werner, Abraham, 90
 Wesley, John, 80
 whaling industry, 107
 White, Gilbert, 80, 81f4.4, 97, 126, 167
 White, Lynn, 100, 236, 237, 239, 254
 Wicken Fen, 154, 155f7.1
 Wilberforce, Samuel, Bishop of Oxford,
 91, 148–49
 Wilberforce, William, 229
 wilderness, and Romanticism, 122–24
 Wildlife and Countryside Act, 165
 Wildlife and Countryside Link, 164
 Wildlife Trusts, 159
 Willughby, Francis, 67, 73, 167

Wilson, Edward, 11, 39, 41, 238, 239	World Council of Churches (WCC), 208
Wollaston, Thomas Vernon, 96	Worldwide Fund for Nature, 163, 209
Wood, Rev. John G., 128	Worster, Donald, 239
Wordsworth, William, 8, 122, 124	Wye Valley, 122, 124f5.2A
World Bank, 198, 200	
World Charter for Nature, 213	X Club, 139–42, 151
World Commission on Environment and Development, 193	Yorkshire Naturalists' Union, 145
World Conservation Strategy (WCS), 191–92, 195, 197, 220	Young, Maurice, 43
British response to, 221–24	zoonoses, 52