

Index

- Abbott, K 255
Achard, F 173, 174
Adhikari, B 214, 221
agriculture 127–50
 agriculture evolution 128–9
 ecosystem management 131–2
 genetic diversity plant species 128
agriculture, Brazil
 biodiversity degradation 129–30
 smallholder farmers and sustainable
 agricultural practices 130–31,
 134
 TEEB (The Economics of
 Ecosystems and Biodiversity
 Initiative) Business Brazil
 Project 136
agriculture, agroforestry benefits 129,
 130, 131–49
 adoption obstacles 136–8
 agroforestry definition 132, 140
 community-based forest
 management 139
 continuity, integration and support
 between humans and nature
 133–4
 environmental services promotion 140
 financial compensation requirements
 138, 143
 and indigenous peoples 134
 inter-sectoral coordination, need for
 139
 international recognition 134–6
 legal and policy elements
 underpinning successful
 agroforestry regimes 136–40
 market access requirements 139–40
 private local actions, need for
 encouragement of 139
 property rights, need for secure
 138–9, 141
 sustainability 133–4, 139
agriculture, agroforestry benefits,
 Brazil
 ABC Plan (climate change
 mitigation) 146–7
 Environmental Adjustment Program
 (EAP) 142
 environmental certification 144–5
 Environmental Crimes Act 144, 147
 environmental damage, obligation to
 repair 141–2
 Environmental National Policy
 145
 Food Acquisition Programme 146
 Forest Code and Constitutional
 provisions 140–43
 Forest Code and Constitutional
 provisions, Preservation and
 Restoration of the Environment
 Program 143, 149
 Forest Code and Constitutional
 provisions, Rural Environmental
 Registry 142–3, 147–8
 information and technical assistance,
 lack of 148
 legal framework of relevance to
 agroforestry 140–41
 market access and product
 certification problems 149
 National Policy for Agroecology and
 Organic Production (PNAPO)
 145–6
 National Program for Strengthening
 Family Agriculture (PRONAF)
 145
 National School Meal Programme
 146
 obstacles to adoption of agroforestry
 practices 147–9
 payment for ecosystem services
 (PES) mechanisms 145, 149
 political barriers 148–9

- Program for the Socio-Environmental Development of Rural Family Production (Proambiente) 145
- public policies aimed at fostering agroforestry 145–7
- sectoral laws 144–5
- Albuquerque, M 127–50, 143
- Almeida, F 183
- Altafin, I 145
- Andrade, G 174, 175
- Andrew, G 214
- Anghie, A 158
- Angyal, A 32
- Antarctic Treaty, common heritage of humankind 306–7
- anthropocentrism and moral considerations 27–52
 - aliveness, meaning of 28–9
 - biological life and death 29
 - constraints on human conduct from justice 44–6
 - doctrine of necessity 30
 - Earth's interest in diverse biosphere 37–8, 40
 - human activity causing harm to biodiversity and need to repair 45–6
 - humanity's interest in a diverse biosphere 38–41
 - humanity's interest in a diverse biosphere, duties owed to the future 40
 - individual members of species' direct interests in biodiversity 36, 40–41
 - justice and moral considerateness 28–30
 - Kantian view 41–2, 48
 - moral considerateness and moral responsibility 41–6
 - morally considerate entities 29–30
 - 'pest species', dealing with 44, 46
 - protection of biodiversity in justice 31–40
 - respect for other living beings, capabilities-based approach 43–4
 - responsibility for harm, assigning 30
 - threatened species in biodiverse environments 31, 34–5
 - threatened species in biodiverse environments, collective species interest 35
 - and utilitarianism 42–3, 48
- anthropocentrism and moral considerations, biosphere's direct interests in biodiversity 31–4, 40
- geophysical or astronomical events, effects of 32–3
- glaciation effects 33
- Natural Law claims 31–2
- plant kingdom's development of lignin tissue, effects of 33
- precautionary protection consideration 33–4
- anthropocentrism and moral considerations, New Zealand example 47–52
- Animal Welfare Act 48, 51
- controlling 'pest' species 48–52
- human and animal arrivals 47, 49
- intensive agriculture issues 50–51
- limits of permissible conduct
 - towards non-human animals 47–8, 51–2
 - possum control 49–52
- Araujo, A 130
- Ardea, M 230
- Armstrong, J 58
- Arshad, A 79
- artificial islands, oil and gas exploration 234, 238–9
- Aryal, P 212
- ASEAN Region
 - illegal trade in endangered species *see* illegal trade in endangered forest and marine species
 - peatland management 56, 59–60, 77–8
- Asian Infrastructure Investment Bank 161
- Austin, I 66
- Azmi, M 68
- Baaner, L 71
- Balch, O 79
- Balcombe, J 42
- Bali Declaration and Action Plan 218

- Balkin, R 235, 236
 Balsan, R 130
 Bardonnnet, D 305, 306
 Barnes, R 248
 Barrett, S 297
 Bascompte, J 252
 Baslar, K 296, 305, 306
 Bell, L 80
 Benner, R 75
 Benner, T 159
 Bentham, J 29, 42–3
 Benzing, M 293
 Bergamasco, S 140
 Bergmann, N 148
 Bernasconi-Osterwalder, N 155, 160, 170
 Bernstein, S 17
 Berry, T 31–2
 Bhargava, V 173
 Bhattarai, A 212
 Bianchini, P 134
 Biermann, F 156, 164, 167
 bilateral agreements 115–16, 160
 see also multilateral agreements
 Bird, C 29
 Birnie, P 9, 13, 17
 Bishop, J 136–7
 Bodansky, D 292, 293
 Bohlen, P 127, 128, 132
 Boidin, B 291
 Boktin, D 44
 Bolfe, A 140
 Borrini-Feyerabend, G 175
 Boyd, D 74
 Boyle, A 9
 Brack, D 170
 Braithwaite, J 153
 Brandon, K 45
 Brazil
 and agriculture *see* agriculture,
 agroforestry benefits, Brazil;
 agriculture, Brazil
 forest peat protection 60
 Breckenridge, L 174
 Brosnan, S 28
 Brown, K 39
 Buckley, L 160
 Burrows, W 38
 ‘business as usual’ exploitation, peat
 bogs law 70, 77, 87, 88
 Buttoud, G 136, 137, 138, 139, 140,
 145
 Cafaggi, F 292, 293, 297
 Canada
 Canadian Maritime Law Association
 (CMLA) 234, 238–9
 Corporate Accountability
 of Mining, Oil and Gas
 Corporations in Developing
 Countries Act 168–9
 peat bogs 56, 58, 66, 67
 Canfield, D 32
 carbon emissions
 carbon footprint of peat destruction
 54, 57–8, 59, 61–3, 65–6, 69,
 73–4, 76–7
 carbon sequestration expansion,
 Nepal 202, 216
 see also emissions
 Carlson, C 39–40
 Caron, D 293, 297
 Carroll, A 162, 163
 Cashore, B 17
 certification schemes 16–17, 144–5,
 149, 255
 Chandler, N 132
 Chapin, S 127, 131
 Chilkoti, A 79
 China
 China-Africa undercover ‘sting’
 operation, ASEAN Wildlife
 Enforcement Network
 (ASEAN-WEN) 105
 consumption of wildlife and its
 by-products 101, 117–18, 119,
 121–2
 management of Chinese enterprises
 during foreign investment *see*
 forest biodiversity conservation
 and management of Chinese
 enterprises during foreign
 investment
 multinationals engaging in natural
 resources extraction 152–4
 National Inter-agency CITES
 Enforcement Collaboration
 Group (NICCECG) 105, 108
 South Africa MoU on rhino
 poaching 115–16

- China, nature reserve management and human and wildlife conflict in protected areas 173–96
 administrative powers imposing restrictions on land rights 181–2
 behavioural controls and prohibition of certain activities 187
 biodiversity protection 180
 categorization of management objectives, lack of complete 186–7
 collective land ownership 181, 182, 183
 community cooperative management (co-management) 192–3
 ‘community-based’ approach and relationship between conservation and local economic development 184, 186
 Dawei Mountain Nature Reserve, conflicts over resource uses 186
 early development of nature reserves 177–8
 Environmental Protection Law 178
 equitable sharing with local communities of benefits, concerns over 187–8
 funding mechanisms 188–90, 195
 Household Land Contracted Management Regime 181
 land tenure regime 180–84, 188–9, 195
 land use rights belonging to local government 182–3
 legal instruments, inadequate 180–93
 nature reserve classification 179–80
 nature reserve maintenance responsibility 189–90, 192
 nature reserve status and regulations 177–80
 protected area categories 186–7
 public participation and information access 190–93, 195
 relocation through expropriation solutions 183, 188–9
 resource use and benefit sharing 184–8, 195
 rights of indigenous and local communities 175–6
 sustainable management goals 195–6
 traditional knowledge, benefits arising from utilization of 188
 transfer of land rights and relocation of inhabitants 183–4
 zoning and regulatory compliance 185–6
 Clapp, J 157
 Clark, D 76
 Clarke, D 61
 Clarke, W 132, 134, 150
 climate change, mitigation, Brazil 146–7
 climate change effects, peat bogs 75
 climate change and forest management in Nepal 197–224
 Bali Declaration and Bali Action Plan 218
 buffer zones 210
 carbon sequestration expansion 202, 216
 climate change policy 199
 Collaborative Forest Management 214, 219
 community forest provision 213–14, 219, 220–21
 Constitution of Nepal 206–8, 220
 Constitution of Nepal, protection, promotion and use of natural resources 207–8
 constitutional and legal provisions 206–14
 domestic initiatives 199–214
 electrification through renewable energy sources 216
 Environment Protection Act 1997 209, 219
 environmental impact assessment (EIA) 204, 205
 Environmental Policy and Action Plan 200
 fair and equitable benefit sharing and access to resources 220
 Forest Act 210, 211–14, 219–20
 Forest Encroachment Control Strategy 205
 Forest Fire Monitoring and Detection System 223–4
 forest loss 198
 Forest Policy 202, 219

- Forestry Master Plan and Forestry Sector Strategy (FSS) 203–4, 213
- fundamental rights provisions 207
- International Centre for Integrated Mountain Development (ICIMOD) 215, 217
- leasehold forest provision 212–13
- legislation 209–14
- Local Self-Governance Act 209–10, 219, 220
- Mines and Minerals Act 210
- National Adaptation Programme of Action (NAPA) to Climate Change 199–200, 216, 222
- National Biodiversity Strategy 204–5
- ‘national forests’ definition 212
- National Framework on Local Adaptation Plans for Action (LAPA) to Climate Change 200
- National Land Use Policy 2012 201
- National Parks and Wildlife Conservation Act 210, 219
- Nature Conservation National Strategic Framework for Sustainable Development (NCNSFSD) 202–3
- and Paris Agreement 215–16, 223, 224
- Petroleum Act 210
- post-conflict and post-earthquake-related problems 220
- power to arrest, investigate, and shoot forest offenders 211
- Private Forest Nationalization Act 211
- private forest registration 213
- public participation 199, 200, 201, 202, 203, 209, 212, 219, 221
- Reducing Emissions from Deforestation and Forest Degradation (REDD+) Programme 206, 224
- religious forests provision 213
- Sacred Himalayan Landscape (SHL) Programme 206
- South Asia Cooperative Environment Programme (SACEP) 217
- South Asian Association of Regional Cooperation (SAARC) 217–18
- Sustainable Development Agenda 201
- Terai Arc Landscape Strategy (TAL) 2004–2014 205, 212, 219
- UNFCCC submissions 215–16, 223
- Coleman, J 30, 45
- collaboration and cooperation obligations 104–7, 115, 139, 214, 219, 298–312
- collective land ownership, China 181, 182, 183
- common heritage of humankind 296–9, 305–7, 310–12
see also global public goods concept and conservation of marine resources
- community forest provision, Nepal 213–14, 219, 220–21
- community-based approach, China 184, 186, 192–3
- compensation allocation 85–6, 117, 138, 143, 170–71, 229, 237–8, 244, 312
- conservation measures
International Seafood Sustainability Association (ISSA) 255–67
nature reserve management, China 184, 186
and public goods *see* global public goods concept and conservation of marine resources
see also ecological issues; environmental protection
- constitutional approaches 140–43, 206–14, 220, 283–5
- Convention on Biological Diversity (CBD) 34, 35, 36, 40, 176, 278, 294
- agricultural biodiversity 128, 129, 131, 135–6
- Aichi Biodiversity Targets 247–8, 295
- on common concern of humankind 307
- on cooperation 299–301
- Ecosystem Approach 38
- indigenous and local communities 175–6, 188

- Jakarta Mandate 230–31, 247
 marine and coastal biodiversity 247–8
- Convention on Civil Liability for Oil Pollution Damage Resulting from Exploration and Exploitation of Seabed Mineral Resources (CLEE) 234, 237–8, 245
- Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES) 98–100, 116, 117, 118–20
- Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean 228
- Convention for the Suppression of Unlawful Acts against the Safety of Maritime Navigation (SUA) 236
- cooperation obligations 104–7, 115, 139, 214, 219, 298–312
- coral forests, New Zealand *see* New Zealand, black coral forests and marine biodiversity
- corporate social responsibility *see* forest biodiversity conservation and management of Chinese enterprises during foreign investment, corporate social responsibility, strengthening
- corruption issues 81, 116–17
- Costa de Oliveira, C 290–314
- Costanza, R 39
- Couzens, E 3–24
- Craig, D 283, 285
- Cudennec, A 301, 314
- Dahl, T 64
- Dain, F 37
- Dane, F 74
- Davies, G 55
- Daya-Winterbottom, T 272–89
- De Cendra, J 286
- De Grazia, D 42
- De Sadeleer, N 275
- De Saint Victor, J 290, 296
- De Waal, F 28
- Deepwater Horizon* disaster, Gulf of Mexico 227–8, 233, 236, 248
- Dernbach, J 285
- DETECT (Detection of Environmental Crime Training) 107
- Dick, D 66
- Dickson, B 101
- Dolabella, R 147
- Dolzer, R 160
- Drahos, P 153
- Druse, K 67
- Dudgeon, D 45
- due diligence obligation, global public goods concept 307–9, 310–11
- Dugard, J 7
- Dupuy, P-M 302
- Eaqub, S 284
- East Asia Summit (EAS), Declaration on Combating Wildlife Trafficking 109, 122
- Eastern Pacific Ocean (EPO) Conservation Measures, International Seafood Sustainability Association (ISSA) 258–9
- Eaton, J 167
- ecological issues
 ecosystem management, agriculture 131–2
 global public goods and marine biodiversity 294–5, 300–301
 harmonious society and ‘ecological civilization’ governance goals, China 154–5
 and peat bogs 65, 70–71, 73, 75, 77
see also conservation; environmental protection
- economic development, China 157, 184, 186
- economic strategies for preserving peat 89–92
- Edelman, B 305
- Eikermann, A 17
- elephant ivory, illegal trade in 98, 99–100, 101, 104, 105, 123
- emissions
 peat bogs 69, 79, 81, 83–5, 86–8, 89–90, 91–2
 Reducing Emissions from Deforestation and Forest Degradation (REDD+)

- Programme 74, 81–2, 83–4, 86, 87, 89–90, 206, 224
see also carbon emissions
- environmental impact assessments (EIAs) 74, 77, 92, 229, 246–7, 249, 300, 311
- environmental law
 agroforestry, Brazil 140, 141–2, 144, 147
 New Zealand, black coral forests and marine biodiversity 273–5
 and oil and gas exploration and exploitation at sea 245–8
 and peat bogs *see* peat bogs and environmental law
see also legal provisions; regulation
- environmental protection
 certification schemes 16–17, 144–5, 149, 255
- DETECT (Detection of Environmental Crime Training) 107
- forest biodiversity conservation, China 153, 157
- forest management, Nepal 200
- nature reserve management, China 178
see also conservation measures; ecological issues
- EU
 Espoo Convention, oil and gas exploration 246–7, 249
- Forest Law Enforcement, Governance and Trade (FLEGT) Scheme 16
 peat stewardship concerns 70–71
- Ewert, M 133, 144, 147, 149
- Exclusive Economic Zones (EEZs), and global public goods concept 303–4, 309–10
- expropriation, relocation through
 expropriation solutions, China 183, 188–9
- Federov, G 66
- Felbab-Brown, V 100, 108
- Financial Action Task Force (FATF), Asia-Pacific Group on Money Laundering (APG) 113–14
- Finnis, J 32, 43–4
- fires
 Forest Fire Monitoring and Detection System, Nepal 223–4
 peat fires 56–7, 58, 59, 66, 79, 81, 84–5, 87–8
- Fisher, E 283
- fisheries, and private environmental governance *see* global fisheries resources and private environmental governance
- Foigarty, D 79
- Food Acquisition Programme, Brazil 146
- Food and Agriculture Organization (FAO) 136–8, 262
- Footer, M 158
- forest biodiversity conservation
 and management of Chinese enterprises during foreign investment 151–72
 and Asian Infrastructure Investment Bank 161
- bilateral foreign investment treaties 160
- Chinese multinationals engaging in natural resources extraction 152–4
- domestic and international
 incentives to change regulations governing natural resources extraction overseas 154–6
- economic growth and development and environmental protection, trade-offs between 157
- environmental impact assessment concerns in Africa 155–6
- environmental safety and security of disadvantaged groups, effects on 153
- foreign investment law, increasing impact of environmental conservation 157–9
- foreign investment policies and regulation, concerns over implementation 160–61
- foreign investment policies and regulation, new 160
- global green leadership and 2030 Sustainable Development Goals 154

- globalization effects 152–3
- harmonious society and ‘ecological civilization’ governance goals 154–5
- historical origins of foreign investment law and imperialism, effects of 158–9
- illegal logging 164–5
- improving multinationals’ performance 156–71
- integrating multinationals’ environmental conservation into foreign investment 157–61
- investor protection standards and social and environmental protection, balancing 158
- NGO pressure 156
- ‘One Belt, One Road’ initiative 154
- state-owned enterprises (SOEs) 155, 156, 159–60, 164
- forest biodiversity conservation and management of Chinese enterprises during foreign investment, corporate social responsibility, strengthening 161–8
- accountability issues 169–70
- biodiversity conservation promotion 162–4
- biodiversity conservation promotion, criticism of in less developed host countries 163
- collective action and global environmental governance 166–7
- decommissioning and remediation stages 166
- Gabon, Chinese timber companies’ good practice 165
- human rights victims and compensation 170–71
- indigenous people, consultation with 167–8
- indirect social and environmental effects of development 166
- limitations of corporate accountability 168
- local rules and cultures, lack of respect for 165
- multinationals obeying same standards established in their own countries, suggestion of 168–9
- regulation of forest biodiversity conservation 168–71
- socially responsible business practices and forest biodiversity conservation 164–8
- stakeholder theory and corporate citizenship theory 162, 167
- forests
 - agroforestry *see under* agriculture
 - legal aspects of protection *see* legal aspects of the protection of forest and marine biodiversity, forests
 - management, Nepal *see* climate change and forest management in Nepal
 - species, illegal trade in *see* illegal trade in endangered forest and marine species
- Franckx, E 296
- FREDDI trust fund for REDD+ investments, Indonesia 83–4, 87
- Freeland Foundation 106, 107, 118, 120, 123
- Frynas, J 163
- funding mechanisms
 - illegal trade in endangered forest and marine species 117
 - nature reserve management, China 188–90, 195
 - see also* resources
- Fung, A 153
- Gaba, J 39, 40
- Gabon, Chinese timber companies’ good practice 165
- Gallagher, N 159
- Gartner, D 291
- gas exploration *see* oil and gas exploration and exploitation at sea
- Gautam, H 213
- Geiringer, C 284–5
- Geneva Convention on the Continental Shelf 240, 241–2
- Germany, peat restoration and preservation 63, 69–70
- Ghimire, B 214

- Gjerde, K 255
- global commons concept *see under*
 global public goods concept and
 conservation of marine resources
- Global Environmental Facility (GEF)
 86, 192–3
- global fisheries resources and private
 environmental governance 251–71
 environmental management for the
 commons 252–3
- global fisheries resources and private
 environmental governance,
 International Seafood
 Sustainability Association (ISSA)
 253–69
- bigeye tuna, public governance
 efforts on conserving, concerns
 over 257, 258
- ‘club good’ of membership 254–5
 compliance policy and enforcement
 of conservation measures
 against club members 262–7
- data collection 267
- Dongwon company case 264–5
- Eastern Pacific Ocean (EPO)
 Conservation Measures 258–9
- failure to follow mutual conservation
 standards, suspensions or
 dismissals 263
- FAO International Plan of Action
 for the Management of Fishing
 Capacity 262
- illegal, unreported and unregulated
 fishing (IUU), combating
 256–7, 259, 264–5, 266
- Inter-American Tropical Tuna
 Commission (IATTC) 257, 269
- major and minor non-conformance,
 distinction between 266
- Marine Resources Assessment Group
 (MRAG) audits 260, 266–7
- Marine Stewardship Council
 standards 255, 266–7, 268–9
- non-club members, and best-practice
 advice 260–61
- ‘proactive vessel register’ (PVR) for
 purse seine vessels 260, 261, 269
- public participation 267–8, 270
- public perceptions that tuna is
 universally overexploited 254
- purse seine fishing and longline
 fishing restrictions 259, 260,
 261, 262, 264–5
- regional fisheries management
 organizations (RFMOs) 254–5,
 256, 257, 258, 259, 260, 261,
 262, 265, 267
- science-based measures to
 sustainably manage tuna stocks
 258–9
- shark-finning policy 260
- standard-setting, conservation
 measures and commitment
 255–62
- standards commitment 254–5
- traceability measures 256–7
- tuna sustainability 255, 269
- Western and Central Pacific
 Fisheries Commission
 (WCPFC) 258–9
- Western and Central Pacific Ocean
 and Nauru Agreement 270–71
- Global Peatlands Initiative 56
- global public goods concept and
 conservation of marine resources
 290–314
- common heritage of humankind and
 global commons 296–9
- common heritage of humankind
 limitations 305–7, 310–12
- cooperation obligation 298–312
- cooperation obligation, limitation
 to member states of specific
 fisheries commissions 304–5
- due diligence obligation contribution
 307–9, 310–11
- ecosystem approach in the
 management of marine
 biodiversity 300–301
- environmental impact assessment
 300, 311
- Exclusive Economic Zones (EEZs)
 303–4, 309–10
- global commons concept, fisheries
 resource analysis 302
- global commons concept, free access
 and non-excludability 302
- global commons concept limitations
 301–5
- global public goods concept 291–6

- global public goods concept, public and common distinction 294
- global public goods concept, public and private distinction 294
- global public goods, main characteristics 293–4
- limitations of conservation of marine resources in areas under state jurisdiction 309–10
- marine biodiversity and the ecosystem approach 294–5
- reparations for damage 312
- responsibility of the ship's flag state over illegal fishing 303, 304–5, 309–10
- seabed exploration and exclusive use 297
- sponsor states and exploration contracts for polymetallic sulfides 311–12
- sustainable management of shared stocks and stocks of common interest 303
- globalization effects, forest biodiversity conservation 152–3
- Gold, E 231
- Goldstein, J 70
- Gonçalves, A 148
- Gonçalves, N 304
- Gordillo, J 296
- Gorenflo, L 45
- Goriup, P 193
- Gowdy, J 39
- Granath, G 56
- Grotius, *Mare Liberum* 7–8, 9, 297, 302
- Guillaume, G 307
- Gwin, P 118

- Han, N 189
- Hardin, G 302
- Harris, R 121
- Hartje, V 301
- Hastings, P 265
- Heathcote, S 292
- Heilikilä, R 73
- Heller, M 290
- Henle, K 51
- Hermansyah, A 80
- Hickman, M 66
- Hilson, G 163

- Hofstadter, D 34
- Holdaway, R 49
- horticulture product, peat as 66–7, 76–7
- House, G 127, 128, 132
- human conduct constraints, anthropocentrism and moral considerations 44–6
- human rights victims and corporate social responsibility 170–71
- Hutchings, S 49
- Hutton, J 101
- Hyun, K 187

- illegal trade in endangered forest and marine species 96–124
 - anti-corruption laws and enforcement 116–17
 - ASEAN region, domestic laws relating to CITES, improving efficacy of 118–20
 - ASEAN Regional Action Plan on Trade in Wild Flora and Fauna 103
 - bilateral and multilateral agreements 115–16
 - biodiversity losses and ecocide 101–2
 - collaborative solutions 115
 - compensation awards 117
 - criminal liability extended to corporations 119
 - demand reduction and raising public awareness 117–18
 - East Asia and the Pacific, value of illegal wildlife trade 100
 - economics and culture 121–2
 - elephant ivory 98, 99–100, 101, 104, 105, 123
 - funding and resources 117
 - NGO involvement 120
 - pangolin 100, 105
 - penalties 117, 118–19
 - prosecution and sentencing, effective 119–20
 - rhino poaching 96–8, 101, 105, 115–16, 121
 - stakeholder consultations 120–21
 - technology and forensic capacity 121
 - turtles 105

- illegal trade in endangered forest and marine species, ASEAN Wildlife Enforcement Network (ASEAN-WEN) 102–7, 108, 123
- ASEAN Legal Studies and Support Program to Fight Transnational Organized Wildlife Crime 107
- Asia's Regional Response to Endangered Species Trafficking (ARREST) programme 106, 107, 120
- China-Africa undercover 'sting' operation 105
- collaborative efforts and capacity building 104–7
- DETECT (Detection of Environmental Crime Training) 107
- Operation Cobra 104–5, 115
- PROTECT (Protected-area Operational & Tactical Enforcement Conservation Training) 106–7
- WildScan app 107
- workshop on wildlife crime 106
- illegal trade in endangered forest and marine species, as transnational crime in ASEAN region 107–15
- ASEAN Inter-Parliamentary Assembly (AIPA) 108, 110, 123
- ASEAN Treaty on Mutual Legal Assistance on Criminal Matters 113
- Financial Action Task Force (FATF), Asia-Pacific Group on Money Laundering (APG) 113–14
- Kuala Lumpur Declaration in Combating Transnational Crime 110
- networks and instruments regulating transnational crime 111–15
- regional responses 107–10
- UN Convention Against Corruption (UNCAC) 112–13, 122
- UN Convention Against Transnational Organized Crime (UNTOC) 111–12, 122
- illegal, unreported and unregulated (IUU) fishing 256–7, 259, 264–5, 266
- imperialism, and foreign investment law 158–9
- India, *Nair v Union of India* 43
- indigenous peoples 134, 167–8, 175–6, 188, 274, 280, 281
- Indonesia, peat law *see* peat bogs and environmental law, Indonesia peat law
- information access 148, 190–93, 195, 267, 279
see also public participation
- Institute for Sustainable Development and International Relations (IDDRI) 229–30
- Inter-American Tropical Tuna Commission (IATTC) 257, 269
- Intergovernmental Panel on Climate Change (IPCC) 62–3
- International Arbitration Awards, *Bering Sea Fur Seals Arbitration* 8–9
- International Centre for Integrated Mountain Development (ICIMOD) 215, 217
- International Commission for the Conservation of Atlantic Tuna (ICCAT) 303
- International Conference on Liability and Compensation Regime for Transboundary Oil Damage, Indonesia 235–6
- International Consortium on Combating Wildlife Crime (ICWC) 107–8
- International Convention on Civil Liability for Bunker Oil Pollution Damage (Bunkers Convention) 245
- International Convention on Civil Liability for Oil Pollution Damage (CLC) 244
- International Convention on the Establishment of an International Fund for Oil Pollution Damage (FUND) 238
- International Convention on Oil Pollution Preparedness Response

- and Co-operation (OPRC) 236, 239, 244
- International Convention for Prevention of Pollution from Ships (MARPOL) 243, 245, 249
- International Convention for the Safety of Life at Sea (SOLAS) 242–3
- International Court of Justice (ICJ), *Pulp Mills on the River Uruguay (Argentina v Uruguay)* 74, 92, 299, 300, 308
- International Criminal Court (ICC), environmental destruction crimes 169–70
- International Fund for Animal Welfare (IFAW) 118, 120
- International Maritime Organization (IMO) 229–30, 236, 242–3, 245, 250
- International Peat Society 54–5, 60–61, 76–7
- International Seabed Authority, *Status of Contracts for Exploration* 311–12
- International Seafood Sustainability Association (ISSA) *see* global fisheries resources and private environmental governance, International Seafood Sustainability Association (ISSA)
- International Tribunal for the Law of the Sea (ITLOS)
- on common heritage of humankind 306
 - on due diligence obligation 307, 308
 - Mox Plant Case (Ireland v United Kingdom)* 300
 - responsibility of the ship's flag state over illegal fishing 303, 304–5, 309–10
 - Southern Bluefin Tuna* 302
 - 'Virginia G' Case (Panama v Guinée-Bissau)* 303–4
- International Tropical Timber Agreement 16
- International Union for the Conservation of Nature (IUCN) 55, 69, 71, 90, 100, 119–20, 250, 287
- International Union for Forestry Research Organizations, forested peatlands 76
- introduced species, threats from 44, 46, 278, 279, 282, 287
- Ireland, peat as energy fuel 76
- Jaeckel, A 301, 314
- James, A 189
- Jeglum, J 65
- Jim, C 192
- Jong, H 84
- Joosten, H 61, 76
- Jouannet, E 294
- Joyner, C 296, 305, 306
- Juan-Jordá, M 252
- Judy, D 157, 169
- Juffe-Bignoli, D 186
- Justel-Rubio, A 270
- justice and moral considerateness 28–40, 44–6
- Kanie, N 156
- Kantian view, anthropocentrism and moral considerations 41–2, 48
- Kaplan, R 153, 162, 163
- Kareem, S 163
- Karkkainen, B 39
- Kaul, I 292
- Kaye, S 298, 303
- Keeton, C 168
- Kerbrat, Y 302
- Khanal, D 212
- Khanal, S 221
- Kidan, W 161
- Kideghesho, J 137
- King, K 132
- King, M 47
- Kiss, A-C 302, 305, 306
- Kloff, S 229
- Klöve, B 76
- Koh, K 112
- Kolstad, I 155
- Korsgaard, C 42
- Kothari, A 174
- Kotzé, L 7, 13
- Kramer, A 58
- Krämer, L 285
- Krisch, N 291, 293
- Kruger, M 169

- Ku, C 296–7
 Kurukulasuyra, L 72
- Lai, Q 185, 186
 Lamichhane, D 220
 land tenure regime, China, nature reserve management 180–84, 188–9, 195
 Lausche, B 186, 187
 leasehold forest provision, Nepal 212–13
 legal aspects of the protection of forest and marine biodiversity 3–17
 forests 5–7, 14–17
 oceans 4–5, 7–14
 legal provisions
 agroforestry regimes 136–40
 climate change and forest management in Nepal 206–14
 inadequate, nature reserve management, China 180–93
 peat bogs and environmental law 73–7
 see also environmental law; regulation
- Leonard, J 169
 Leung, D 154
 Levy, D 153, 162, 163
 Li, H 182
 Li, Jingwen 187
 Li, Junsheng 177
 Li, P 181
 Li, X 192, 193
 liabilities and industry funds, oil and gas exploration 237–8, 244
 see also compensation allocation
- Lima, G 301, 312, 314
 Limpens, J 57–8
 Lin, J 100
 Lin, L 155, 163, 164
 Lipson, C 158
 List, M 167
 Liu, B 151–72
 Lodge, M 296, 305, 306
 Logeat, C 290
 Losey, J 40
 Lowe, V 244
 Lund, J 214, 219, 221
 Lye, L 96–124
 Lyons, Y 227
 Lytton, T 45
- Macedo, S 32
 Machado, P 143
 Maguire, R 17
 Mahan, A 297
 Malaysia
 ivory, destruction of stockpiled 123
 peat bogs 57, 58, 68–9
 Maljean-Dubois, S 159, 290–314
 management, nature reserve *see* China, nature reserve management and human and wildlife conflict in protected areas
- Mandal, A 197
 Marette, C 173–4
 marine biodiversity
 global fisheries *see* global fisheries resources and private environmental governance
 New Zealand *see* New Zealand, black coral forests and marine biodiversity
 and public goods *see* global public goods concept and conservation of marine resources
 marine oil and gas exploration *see* oil and gas exploration and exploitation at sea
- Marine Resources Assessment Group (MRAG) audits 260, 266–7
 marine species, illegal trade *see* illegal trade in endangered forest and marine species
- Marine Stewardship Council standards 255, 266–7, 268–9
 market access, agroforestry, Brazil 139–40, 149
- Marks, P 80
 Marr, S 298, 301, 314
 Martin, P 283, 285, 287
 Martins, T 148
 Matz, N 247
 Mavroidis, P 292
 May, J 74, 285
 McCafferty, G 84
 McConnell, M 231, 242, 250
 McGarity, T 169
 McGrath, C 283, 285
 McVey, D 73
 Mediterranean Sea Offshore Protocol 228

- Medley, P 268
 Mei, F 184
 Mele, D 162
 Mello, C 298
 Mercure, P-F 296
 Mexico, Pacific Alliance for Sustainable Tuna (PAST) 269
 Meyer, T 291, 293
 Miccolis, A 146
 Miettinen, J 78
 Milhaupt, C 155, 164
 Miller, K 187
 Milne, R 59
 Mittermeier, R 177
 Mizuno, K 56, 68, 69
 Mohai, P 153
 monitoring and surveillance
 arrangements, New Zealand 279, 281, 282, 284, 286, 288
Montara oil rig blow-out, Timor Sea 227, 228, 233, 235, 236, 248
 Monteduro, M 128
 moral considerations *see*
 anthropocentrism and moral considerations
 Morgan, G 27–52
 Morgera, E 291, 293, 297
 Morin, J-F 291
 Mulcahy, K 281
 Müller, M 133
 multilateral agreements 115–16, 240–48
 see also bilateral agreements; titles of individual agreements
 multinationals 152–4, 156–71, 168–9
 Murdiyarso, D 69
 Murphy, T 297
 Musuya, T 137

 Nagle, J 38, 39
 Naing, Z 174
 National Adaptation Programme of Action (NAPA) to Climate Change 199–200, 216, 222
 national parks 87, 210, 219
 national policy statements (NPS), New Zealand 273–4, 280, 281, 283
 nationalization suggestion, peat bogs, Indonesia 85–6
 Natural Law claims 31–2

 Nature Conservation National Strategic Framework for Sustainable Development (NCNSFSD), Nepal 202–3
 nature reserve management, China *see* China, nature reserve management and human and wildlife conflict in protected areas
 Nellemann, C 5
 Nepal, forest management *see* climate change and forest management in Nepal
 networks, and transnational crime regulation 111–15
 New Zealand
 anthropocentrism and moral considerations *see*
 anthropocentrism and moral considerations, New Zealand example
 Environmental Defence Society v The New Zealand King Salmon Company 274
 North Shore City Council v Auckland Regional Council 274
 peat protection 65, 67, 89
 Sustain Our Sounds v The New Zealand King Salmon Company 275
 Watercare Services v Minihimick 274
 New Zealand, black coral forests and marine biodiversity 272–89
 biodiversity decline, halting 278–9
 constitutional approaches 283–5
 Convention on Biological Diversity ratification 278
 empirical approaches 285–6
 environmental law 273–5
 Environmental Monitoring Act 279
 Fiordland coastal marine area 276–7
 Fiordland coastal marine area, black coral forests 276
 Fiordland Marine Guardians 277, 279, 281–2, 287–8
 Fiordland marine reserves 281–2, 287
 Fiordland (Te Moana o Atawhenua) Marine Management Act 277, 288

- governance approaches 287–8
 hyperlexis (too many laws) concerns 284–5
 information access 279
 introduced species, threats from 278, 279, 282, 287
 Maori guardianship or stewardship 274
 Marine Reserves Act 275–6
 Marine Reserves Act Review 280–81
 monitoring and surveillance arrangements 281, 282, 284, 286, 288
 national policy statements (NPS) 273–4, 283
 national policy statements (NPS) on indigenous biodiversity 280, 281
 policy and practice, distinction between 285–6
 Resource Management Act (RMA) 272–4, 275, 278, 283–4, 287, 288
 state of the environment (SOE) reports 278–9
 sustainable futures 283–8
 sustainable management 272–7
 sustainable management, balanced judgment approach 274
 sustainable management, government and private sector involvement 277–82
 sustainable management, principled approach 275
 NGO involvement 120, 156
 Nollkaemper, A 293
 Norway, financial support for peat protection 59, 60, 80, 83
 Noyes, J 296, 305, 306
 Nussbaum, M 35, 43
- oceans, legal aspects of protection *see* legal aspects of the protection of forest and marine biodiversity, oceans
 O’Faircheallaigh, C 167
 oil and gas exploration and exploitation at sea 227–50
 artificial islands 234, 238–9
 Canadian Maritime Law Association (CMLA), and offshore units 234, 238–9
 Comité Maritime International (CMI), Sydney Draft on offshore units 234, 238–40
 compensation and industry funds 237–8, 244
 and Convention on Biological Diversity (CBD), Aichi Biodiversity Targets 247–8
 and Convention on Biological Diversity (CBD), Jakarta Mandate 230–31, 247
 Convention on Civil Liability for Oil Pollution Damage Resulting from Exploration and Exploitation of Seabed Mineral Resources (CLEE) 234, 237–8, 245
 Convention for the Protection of the Marine Environment and the Coastal Region of the Mediterranean 228
 Convention for the Suppression of Unlawful Acts against the Safety of Maritime Navigation (SUA) 236
Deepwater Horizon disaster, Gulf of Mexico 227–8, 233, 236, 248
 environmental impact assessments (EIAs) 229, 246–7, 249
 EU Espoo Convention 246–7, 249
 fixed and mobile platforms, differentiation between 233–5
 Geneva Convention on the Continental Shelf 240, 241–2
 identity of offshore units and law of property 239
 and Institute for Sustainable Development and International Relations (IDDRI) 229–30
 insurance, need for 235
 International Conference on Liability and Compensation Regime for Transboundary Oil Damage, Indonesia 235–6
 International Convention on Civil Liability for Bunker Oil Pollution Damage (Bunkers Convention) 245

- International Convention on Civil Liability for Oil Pollution Damage (CLC) 244
- International Convention on Oil Pollution Preparedness Response and Co-operation (OPRC) 236, 239, 244
- International Convention for Prevention of Pollution from Ships (MARPOL) 243, 245, 249
- International Convention for the Safety of Life at Sea (SOLAS) 242–3
- and international environmental law 245–8
- and International Maritime Organization (IMO) 229–30, 236, 242–3, 245, 250
- international regulation, lack of 229–30, 235, 236
- liabilities and industry funds 237–8, 244
- marine biodiversity effects 229
- marine versus offshore installations 233–6
- Mediterranean Sea Offshore Protocol 228
- Montara* oil rig blow-out, Timor Sea 227, 228, 233, 235, 236, 248
- multilateral treaties applicable to marine installations 240–48
- Offshore Pollution Liability Agreement (OPOL) 244–5
- Offshore Protocol to the Barcelona Convention 248–9
- oil pollution prevention 236, 237–45, 249
- oil pollution types 239, 243, 249
- pollution by garbage 243
- precautionary stage prior to installation of exploration and exploitation structures 229
- regulation attempts for marine installations 237–40
- reparation prospect for environmental damage 229
- and Rio Declaration 245–6, 247
- safety measures 240, 249
- salvage and removal provisions 239–40, 244
- sustainable development goals 230–31, 246, 247–8
- terrorism prevention 236
- and UN Convention on the Law of the Sea (UNCLOS) 229, 240–41, 245, 247, 250
- Ojha, H 204
- Oli, B 220
- Oliveira, L 145
- ‘One Belt, One Road’ initiative, China 154
- Operation Cobra, ASEAN Wildlife Enforcement Network (ASEAN-WEN) 104–5, 115
- Oral, N 300
- Orsini, A 291
- Ostrom, E 290
- Pacific Alliance for Sustainable Tuna (PAST) 269
- Page, S 59
- palm oil companies, withdrawal of voluntary agreements for zero deforestation 78–9
- Palmer, G 283–4
- pangolin, illegal trade 100, 105
- Pant, A 197–224
- Parance, B 290, 296
- Paris Agreement 56–7, 84, 88, 215–16, 223, 224
- Paterson, A 3–24
- Pattberg, P 156, 164, 167, 271
- Paudel, A 220
- Pawlowska, A 38–9
- payment for ecosystem services (PES) mechanisms, Brazil 145, 149
- Payne, C 86
- Pearce, D 40
- peat bogs and environmental law 53–95
- ‘business as usual’ peat exploitation 70, 77, 87
- carbon footprint of peat destruction and GHG emissions 54, 57–8, 59, 61–3, 65–6, 69, 73–4, 76–7
- climate change effects 75
- coastal peat deposits 64
- ecological issues 65, 70–71, 73, 75, 77
- economic strategies for preserving peat 89–92
- ‘emission trading’ schemes 69, 89

- environmental impact assessments (EIA) 74, 77, 92
- environmental legal principles and reform of peat law 73–7
- financial ‘Peat Codes’ or REDD+ offsets suggestion 74
- fuel inefficiency 66
- habitats for species protection, and peat preservation 67–8
- in situ* protection 60, 67, 71, 75, 77, 92
- inconsistency among states and failure to apply environmental law principles 75–6
- inland terrestrial peat 64–5
- misconceptions and ignorance effects 63–73
- new peat legislation consideration 93–5
- peat conservation regulation, lack of 58–63, 71–3
- peat as emerging international concern 54–7
- peat fires 56–7, 58, 59, 66
- peat as horticultural product 66–7, 76–7
- peat preservation initiatives 67–8, 72–3
- peat uses, current 55, 57–8, 59, 66–7, 69, 76–7
- precautionary principle application in environmental law 71
- rewetting and preserving peat 90–91 and ‘right to the environment’ 74
- Sphagnum* moss bogs 65–6, 67, 75
- UN Sustainable Development Goals (SDGs) 60, 72, 95
- voluntary financing systems 90
- wetland filling effects 58–9, 64
- wetlands conservation 63, 65, 77
- peat bogs and environmental law, Indonesia peat law 77–88
- ASEAN Peatland Management Strategy (APMS) 77–8
- ‘business as usual’ exploitation 87, 88
- compensation allocation 85–6
- corruption issues 81
- drainage and burning of tropical peat forests 78–9, 80
- fire-free villages 79
- forests and their permitted uses, map preparation 82–3
- FREDDI trust fund for REDD+ investments 83–4, 87
- GHG emissions reduction 83–4
- Haze Agreement 81
- Kampar Peninsula drainage 80–81
- legal protection for High Conservation Value (HCV) areas 79
- major palm oil companies, withdrawal of voluntary agreements for zero deforestation 78–9
- moratorium on granting concessions for new plantations 83
- national parks extension and peat protected areas, consideration of 87
- nationalization suggestion 85–6
- Paris Agreement commitment 84, 88
- Peat Restoration Agency (BRG) 79–80
- programmes to Reduce Deforestation and Degradation, REDD+ 81–2, 83–4, 86, 87, 89–90
- rewetting peat and ending GHG emissions 86–7, 89–90, 91–2
- Sistem Verifikasi Legalitas Kayu (SVLK) and deterrence of unlawful timber and pulp operations 81
- taxation considerations 86–7
- wild fires and air pollution 79, 81, 84–5, 87–8
- Peel, J 15, 275
- Pei, Y 173–96
- penalties, and illegal trade 117, 118–20
- ‘pest species’, dealing with 44, 46, 278, 279, 282, 287
- Peters, G 10
- Petersmann, E-U 292
- Petroleum Act, Nepal 210
- Philippines
 - ivory, destruction of stockpiled 123
 - Wildlife Management Fund 117

- Phillips, A 175, 185, 191
 Pimentel, D 46
 Place, F 137, 138, 139, 140
 Platt, J 46
 Pokharel, B 219
 Pokharel, R 221
 pollution, oil *see under* oil and gas
 exploration and exploitation at
 sea
 Porro, R 146
 Pound, B 130
 Powers, J 268
 precautionary principle application
 33–4, 71
 Pressisler, A 132
 private environmental governance
 see global fisheries resources
 and private environmental
 governance, International
 Seafood Sustainability
 Association (ISSA)
 private forests 211, 213
 private local actions, need for
 encouragement of in agroforestry
 139
 private sector involvement, black coral
 forests and marine biodiversity,
 New Zealand 277–82
 private use, nature reserves distributed
 to private use, China, 183
 ‘proactive vessel register’ (PVR) for
 purse seine vessels 260, 261, 269
 see also global fisheries resources
 and private environmental
 governance
 property rights
 identity of offshore units and law of
 property 239
 need for secure, agroforestry 138–9,
 141
 property rights, need for secure,
 agroforestry 138–9, 141
 protected areas, nature reserve
 management *see* China, nature
 reserve management and human
 and wildlife conflict in protected
 areas
 public demand reduction, illegal trade
 in endangered forest and marine
 species 117–18
 public goods *see* global public goods
 concept and conservation of
 marine resources
 public participation
 forest management, Nepal 199, 200,
 201, 202, 203, 209, 212, 219,
 221
 global fisheries resources and private
 environmental governance
 267–8, 270
 nature reserve management, China
 190–93, 195
 see also information access;
 stakeholder involvement
 public policies aimed at fostering
 agroforestry, Brazil 145–7
 purse seine fishing 259, 260, 261, 262,
 264–5, 269
 see also global fisheries resources
 and private environmental
 governance
 Putzel, L 165
 Queffelec, B 291
 Radovich, V 227–50
 Rahargo, R 81
 Raj, B 219
 Ramirez, N 78
 Ramsar Convention on Wetlands of
 International Importance 54–5,
 60–61, 71
 Ramsden, N 264
 Randall, A 39
 Ranieri, V 148
 Rasband, J 199
 Rawls, J 42
 Reducing Emissions from
 Deforestation and Forest
 Degradation (REDD+)
 Programme 74, 81–2, 83–4, 86, 87,
 89–90, 206, 224
 see also emissions
 Reeve, R 101
 Regan, T 42
 regional responses 12–13
 illegal trade in endangered forest and
 marine species 107–10
 regional fisheries management
 organizations (RFMOs) 254–5,

- 256, 257, 258, 259, 260, 261,
262, 265, 267
- regulation
 international regulation of serious
 environmental risks 13
 nature reserve management, China
 177–80, 185–6
 oil and gas exploration and
 exploitation at sea 229–30, 235,
 236, 237–40
see also environmental law; legal
 provisions
- Reid, K 291, 306
- religious forests provision, Nepal 213
- renewable energy sources, Nepal 216
- reparation compensation allocation
 85–6, 117, 138, 143, 170–71, 229,
 237–8, 244, 312
- resources
 access, forest management in Nepal
 220
 natural resources extraction,
 Chinese enterprises and foreign
 investment 152–6
 Resource Management Act (RMA),
 New Zealand 272–4, 275, 278,
 283–4, 287, 288
 use, nature reserve management,
 China 184–8, 195
see also funding mechanisms
- respect for other living beings,
 capabilities-based approach 43–4
- Restrepo, V 270
- rhino poaching and illegal trade 96–8,
 101, 105, 115–16, 121
- Rhodes, J 175
- Riding, T 282
- Riley, S 3–24
- Rio Declaration 15, 200, 234, 245–6,
 247, 295
- Rittberger, V 167
- Roach, A 228
- Roberts, T 252
- Robinson, N 53–95
- Rochette, J 230
- Rose, G 286
- Rossi, C 291
- Ruis, B 15
- Russia, peat fires 58
- Rydin, H 65
- safety measures, oil and gas
 exploration 240, 249
- Sage-Fuller, B 298
- Salmon, J 293–4
- salvage and removal provisions, oil and
 gas exploration 239–40, 244
- Samadhi, N 88–9
- Sampfords, C 168
- Samuelson, P 292
- Sands, P 9, 15, 275
- Sapkota, T 221
- Scherer, A 163
- Schlosberg, D 159
- Schreuer, C 160
- Schroth, G 133
- Seoane, C 133, 143
- Shackelford, S 296, 305, 306
- Shaffer, G 293
- Shan, W 159
- shark-finning policy 260
see also global fisheries resources
 and private environmental
 governance
- Shaw, R 237
- ship's flag state responsibility over
 illegal fishing 303, 304–5, 309–10
see also global public goods concept
 and conservation of marine
 resources
- Singapore
 ivory, destruction of stockpiled 123
 peat fires 58
 wildlife crime 106, 107, 119
- Singer, P 42, 43
- Singh, S 198
- Sirota, P 276, 282
- Size, N 88–9
- Skyttner, L 32
- Snapp, S 130
- Snidal, D 255
- Soeriatmadja, W 79
- Solano, P 183
- South Africa, rhino poaching 96–8,
 115–16, 121
- South Asia Cooperative Environment
 Programme (SACEP) 217
- South Asia Wildlife Enforcement
 Network (SAWEN) 105, 108
- South Asian Association of Regional
 Cooperation (SAARC) 217–18

- sponsor states and exploration
 contracts for polymetallic sulfides,
 global public goods concept
 311–12
 Springer, J 183
 Staiger, R 291–2
 stakeholder involvement 120–21, 162,
 167
 see also public participation
 state of the environment (SOE)
 reports, New Zealand 278–9
 state responsibilities
 ship's flag state responsibility over
 illegal fishing 303, 304–5, 309–10
 sponsor states and exploration
 contracts for polymetallic
 sulfides 311–12
 state-owned enterprises (SOEs), China
 155, 156, 159–60, 164
 Steffen, W 72
 Stone, C 29, 34
 Strayer, D 45
 Stromberg, J 37–8
 Sullivan, H 44
 Sun, Y 182
 Sunstein, C 275
 sustainability
 agroforestry 133–4, 139
 black coral forests, New Zealand
 272–88
 global public goods concept and
 conservation of marine
 resources 303
 nature reserve management, China
 195–6
 oil and gas exploration 230–31, 246,
 247–8
 Sustainable Development Agenda,
 Nepal 201, 202–3
 tuna 255, 269
 UN Conference on Sustainable
 Development (UNCSD), Rio
 Declaration 15, 200, 234, 245–6,
 247, 295
 UN Sustainable Development Goals
 (SDGs) 4, 17, 60, 72, 95, 154,
 195–6
 Tan, W 182
 Tanaka, S 233
 Tanzania, Forest Act 137
 Tarasofsky, R 17
 taxation considerations, peat bogs,
 Indonesia 86–7
 Taylor, P 101
 technology and forensic capacity,
 illegal trade in endangered species
 121
 Telesetsky, A 251–71, 298
 Terazoinio, E 69
 terrorism prevention, oil and gas
 exploration 236
 Thaman, R 132, 134, 150
 Thapa, H 220
 Thapa, Y 212, 214
 Thoms, C 219
 Tienhaara, K 166
 Tompkins, P 29
 traceability measures, International
 Seafood Sustainability
 Association (ISSA) 256–7
 traditional knowledge, benefits
 arising from utilization of in
 nature reserve management,
 China 188
 see also indigenous peoples
 transnational crime *see* illegal trade
 in endangered forest and marine
 species
 Transparency International,
 Corruption Perception Index
 112–13
 Trébulle, F-G 296
 Tremaine, K 275
 Treueb, T 220
 Truman, H 9–10
 tuna fishing *see under* global
 fisheries resources and private
 environmental governance,
 International Seafood
 Sustainability Association (ISSA)
 turtles, illegal trade in 105
 UK
 Mouse's Case 30
 peat restoration and preservation 63,
 66, 69, 90–91
 UN Conference on Environment and
 Development (UNCED) 14–15,
 200

- UN Conference on Sustainable Development (UNCSD), Rio Declaration 15, 200, 234, 245–6, 247, 295
- UN Convention Against Corruption (UNCAC) 112–13, 122
- UN Convention Against Transnational Organized Crime (UNTOC) 111–12, 122
- UN Convention on the Law of the Sea (UNCLOS) 11–12, 13–14, 300, 302–3, 306
and oil and gas exploration 229, 240–41, 245, 247, 250
- UN Convention to Combat Desertification 135
- UN Development Programme (UNDP) 292, 295–6
- UN Economic and Social Council (ECOSOC) 108–9
- UN Environment Programme (UNEP) 55–6, 71, 250
- UN Food and Agricultural Organization (FAO) 61–2, 71
- UN Framework Convention on Climate Change (UNFCCC) 56, 58, 134–5, 206, 215–16, 223
- UN Office on Drugs and Crime (UNODC) 106, 107
- UN Sustainable Development Goals (SDGs) 4, 17, 60, 72, 95, 154, 195–6
- US
American Print Works v Lawrence 30
Endangered Species Act 39
Fish and Wildlife Service (USFWS) 107
peat preservation 67–8
Pine Barrens, New Jersey 67
Policy with Respect to Coastal Fisheries in Certain Areas of the High Seas 9–11
Premier Peat Moss Corporation v United States 76
Russell v Mayor of New York 30
University of Oregon's International Environmental Agreements Database Project 12–13
- USAID, and illegal trade in endangered species 107
Vincent v Lake Erie Transportation Co. 30
wetlands destruction 64
utilitarianism, anthropocentrism and moral considerations 42–3, 48
- Vaughan, M 40
Veit, P 173
Vidal, J 58, 80
Vietnam
Anti-Corruption Initiative Program 116–17
consumption of wildlife and its by-products 101, 118, 119
South Africa MoU on rhino poaching 115–16
U Minh Thuong National Park 67
- Vinales, J 157
Vivan, J 133, 148
Vogel, D 253
Voigt, C 69
Vorosmarty, C 45
- Wake, C 197
Walker, N 45
Waltner-Toews, D 128, 131
Wang, Y 183, 187, 189
Weaver, S 50
Weiss, G 220
Weissbrodt, D 169
Wells, N 48
Weng, X 160
- Western and Central Pacific Fisheries Commission (WCPFC) 258–9
- Western and Central Pacific Ocean and Nauru Agreement 270–71
wetlands, and peat bogs 55, 58–9, 63, 64, 65, 77
- Wigginton, J 297
Wiig, A 155, 156
WildAid 118
WildScan app 107
Wiriedu, K 28
Wolfrum, R 247
Woolley, J 10
- World Bank, on global public goods 292

- World Wildlife Fund (WWF) 192–3
Wu, X 188, 191
- Xie, Y 189
Xiong, Z 183, 187, 189
Xu, S 192
- Yang, D 154
Yang, S 96–124
Yang, X 181, 182
Yang, Y 182
- Young, I 153
Young, O 167
Young, R 39
- Zha, D 151
Zhang, I 118
Zhang, X 193
Zhao, Y 154
Zhu, W 161
zoning, nature reserve management,
China 185–6