Index

actions collective. See collective actions expected harms and benefits from. See expected harms and benefits wrongness and. See wrongness adaptation, 2, 5, 17 costs, 6, 11 definition, 41 alternative approach to overdetermination levels of description, 176 probability of being member of actual set, 177 - 8relevance of numbers of contributors, 178 - 80stringency and, 180-2 anthropogenic climate change. See climate change assessment of actions objectivating attitude, 206, 208, 212, 213, 214 performative attitude, 207, 208, 211, 212, 214, 216 reactive attitude, 151, 206-7, 208, 209, 211, 213, 216 bad actions, emotions following, 206 beneficence, 142, 146, 156 compliance condition, 137-9, 140 moral requirement of, 157 burden allocation, 2-3, 6 domestic justice and, 130 emissions restrictions and, 139 historical emissions. See historical emissions Miller's principle of equal sacrifice and. See Miller's principle of equal sacrifice polluter pays principle and. See polluter pays principle carbon budget, 9, 73-4, 77 debate, 2

division of, 74–5

emissions exports and, 84-5 global, spending of, 74 carbon neutral living, arguments for, 156-8 carbon offsetting, 85-6 project based, 97 carbon sinks. See also terrestrial sinks attachment arguments for ownership of, 9, 62 - 4capacity, 59 credit for keeping, 9, 64, 67-8 distribution of capacity. See distributive principles improvement arguments for ownership of, 9, 66-8 ownership of, 61-2 reservations relating to distributive principles, 60-1, 62 self-determination arguments for ownership of, 9, 64-6 sharing costs of, 69-72 carbon trading, 10-11 advantages of, 10 cap-allocate-and-trade scheme, 90-2 objections to, 10-11 causation, 80–1, 174, 175, 214–15 climate change, 217, 219–20 adaptation. See adaption agents, 13, 14 approbation and dissappobation, 206-9 belief formulation, 14, 224-5 categories of response to, 44-5 chance of catastrophe from, 195-7 distributive justice and, 110-11 economics, ethics and, 187 environmentalism and, 221-2 failure to justify, 216-18 intragenerational distribution, 109 issues of life and death and, 189-91 management, DICE assessment model, 192-3 mechanisms of, 40-1

249

250 Index

climate change (cont.) mediated responsibility for, 149 moral challenge of, 56-7 moral philosophy and, 186, 199 climate change harms, 14, 186 all things considered reasons, 76, 78-81 apportioning consequences, 84-7 compensation for, 86-7, 182-3 deaths, 189-90 exported emissions, 73, 85, 86, 88 fossil fuel exports. See fossil fuel exports isolation argument and, 79 'mere causation' and, 80-1 non-human nature. See non-human nature offset argument and, 79-80 overdeterminers of. See overdetermination population. See population responsibility for, 81-4 significant interests of others and, 77, 86 climate change scepticism, 15-16, 220-1 assessment of, 222-3 choice of experts problem and, 230-1 need for progress on, 150 removal of ideology surrounding, 100-2 triumph of science over, 231-3 trust in testimony of others and, 224-5 understanding, 228-9 winning of ideological war over, 233 climate justice, 1 allocation of burdens. See burden allocation compliance condition and, 138 equal per capita distribution and, 60 governmental action and, 145 individual duties and responsibilities and. See individual duties and responsibilities luck egalitarianism and, 113-14 non-institutional duties in relation to, 137, 143, 146 problem of, 218 purpose of. See purpose of climate justice territorial rights and, 61 climate mitigation. See mitigation climate regime, 65 cap-allocate-and-trade scheme, 90-2 fairness and, 91 generalist distributive justice and, 93-4 geoengineering and, 49 United Nations, 21-2 club method of treaty construction, 8, 19-21 assessment of legitimacy of, 35-8 initial exclusivity in, 33 intentional costs on non-members, 31-2 objections to illegitimacy claims, 26-7

stages of agreement for, 27-8 unfairness in process, 31 collective action, 138, 144, 149, 155, 157-8, 159, 160, 205, See also doing harm global, 163 negligent, 161 of harming, 157 communicative freedom, nature and, 209-13 communicative interaction, 213-16 communicative reason, 213, 216 costs and benefits, 29 climate change and, 190 distribution of, 8, 52, 53, 55 environmental policies, 54 expectations of, 187 govenance and, 40 dangerousness ethical aspects of, 185 notion of, 185 values and, 185 distributive justice, 60, 92, 93 climate change and, 110-11 generalist, 93-4 intragenerational, 113 Miller's principle of equal sacrifice. See Miller's principle of equal sacrifice polluter pays principle. See polluter pays principle scope of principles of, 118 distributive principles ability-based, 2, 4, 5-6 beneficiary principle, 2, 3-5 equal per capita. See equal per capita distribution equality principle, 2 fault-based, 2, 4, See also polluter pays principle reservations in relation to carbon sinks, 60 - 1, 62doing harm, 167-9 complete causal process and, 168 constraints against, 168 normative characteristics of, 168-9 relevant action, 168 emissions caps, fairness and, 90-2, 96, 105, 130 carbon dioxide equivalent, 73-4, 85 collective and indirect nature of, 143 direct, 140, 143 export of industries which produce, 77-8 exported, 73, 85, 86, 88

global justice and, 129–30 historical. See historical emissions

path dependence and unfairness in, 34-5

pressure on recalcitrant states, 33

Index

indirect, 140-1, 143, 144 individual. See participatory derivation individual responsibility for. See individual duties and responsibilities just per capita, 139, 140 luxury, 182 national inventories of, 74-5 permissable, allocation of. See allocation of permissable emissions permissable, ethics in allocation of, 184 reduction, 10, 74, 129, 143-4, 148 regulatory reduction framework, 130-1 restrictions, assignment of, 139 tradablity. See tradable quotas value judgements in calculation of. See values in emissions calculation wrongness of, 10, 98 environmentalism, 221-2 equal per capita distribution, 6-7, 9, 59-60, 92-3 climate justice and, 60 reservations relating to sequestering capacity, 60-1, 62 expected harms and benefits, 149, 152-4 fairness, 2, 25, 94, 154, 157, 184 derivative, 156 distributive, 93 emissions caps and, 90-2, 96, 105, 106 intergenerational, 148 public goods and, 70 tradable quotas and, 106 fossil fuel exports, 76-7 acceptance of harm by harmed, 81-2 availability of feasible alternatives to, 77, 83-4 duty to stop external harms from, 86 isolation argument and, 79 offset argument, 79-80 responsibility for harm by exporters, 82, 84 free-riding, 12, 17, 25, 32, 33, 120, 149, 154-5, 156 free will, 206, 214, 216 General Agreement on Tariffs and Trade, 8, 19-20, 34 geoengineering, 8-9 agreement on equitable rules for, 51 carbon dioxide removal, 42-3, 68 cirrus thinning, 43, 44, 45 definition, 39, 42-6 difficulties in categorisation of, 43-4 ethical and political issues, 46-9

governance, 39-40, 49-51 governing institutions, design of, 50-1 greenhouse gas removal, 43, 45 international regulatory regime, 49 ocean fertilisation, 8, 42, 45, 68 order of governance and research, 54-7 research, 39-40, 46, 47-8, 50, 57-8 solar radiation management, 8, 42, 43, 45 techniques with uncertain, unevenly distributed global effects, 45 - 7global cap on emissions fairness and, 90-2 Pigovian taxation and, 94 global egalitarianism, 119-20 global justice, 46, 71, 92 design of governing insitutions and, 50 emissions and, 129-30 emissions caps and, 130 tradable quotas and, 91 global warming, 11, 24, 41, 73-4, 107, 129, 185 estimates, 41-2 intergenerational justice and, 108-9 luck egalitarian injustice and, 117-18 space dust hypothesis and scepticism and. See space dust unjust inequality and, 109 greenhouse gas accumulation, 20, 232 burning of fossil fuels and, 41 deforestation and, 41 greenhouse gas emissions. See emissions group wrongdoing, 12-13 evaluation of individuals involved in. See participatory derivation without individual wrongdoing, 149 harmful conduct. See doing harm historical emissions 'broken transmissions' and, 3 definition, 2 'exonerating circumstances' and, 3 'legitimate repudiation' and, 3 states and, 2-3 individual duties and responsibilities, 11-13 changes to lifestyle, 12 institutional vigilance, 131-2

justification of, 15

negative, 77

options in absence of just institutions. See options in absence of just institutions overdetermination cases. See overdetermination

ethics of techniques of, 45

252 Index

institutional approach to justice, 129, 131-2, See also options in absence of just institutions value pluralism and, 135-6 institutional duty exclusive reading, 142 extreme version, 142 inclusive reading, 142-3 intergenerational justice, 11, 92 global warming and, 108-9 luck egalitarianism and. See luck egalitarianism Intergovernmental Panel on Climate Change, 39, 41, 44, 75, 185, 224 guidelines, 75 international community morally mandatory aims of, 23-5 power holders and subjects, 27 International Energy Agency, 82 international environmental law legitimacy and illegitimacy in, 28-31 intuition of neutrality, 14, 195, 196-7, 199 rejection of, 197-8 strong, 198 weak, 198 justice. See intergenerational justice climate. See climate justice distributive. See distributive justice domestic, 130 global. See global justice institutional approach to. See institutional approach to justice natural duty of, 142 theories, distributive principles. See distributive principles

luck egalitarian injustice generational responsibility and, 112–13 inequality generating global warming and, 117–18 intergenerational, reduced growth scenario and, 111–16
luck egalitarianism, 11, 108, 109–10, 118–19 climate justice and, 113–14 generations and, 121–3 man-made climate change and, 111 Miller's principle of equal sacrifice and, 125–7 national self-determination and, 119–20 polluter pays principle and, 123–5 responsibility and, 120–3

Kyoto Protocol, 17, 18, 19

Miller's principle of equal sacrifice, 110, 125–7 luck egalitarianism and, 125–7 mitigation, 1, 7, 11, 17, 21 costs, 2, 5-6 definition, 41 geoengineering. See geoengineering Montreal Protocol, 32 moral considerability deontological approach to, 203 moral status and, 202-6 non-human nature and. See non-human nature moral phenomena, 207 NESS condition, 174-6 non-human nature, 14-15 moral considerability and, 203-4 moral considerability of, 202-6 obligations to, 204 reparation, argument from, 204-5 objections to tradable quotas actors paid for what they should do, 100, 106 do it yourself objection, 102-4, 106 implied right to do wrong, 98-100, 105 moral stigma removal, 100-2, 106 unfairly cheap selling, 104-5 options in absence of just institutions do nothing, 12, 133, 134-5 do what they would require, 12, 137-41 help create just institutions, 12, 134, 142-7 indeterminancy and, 139-40, 141 institutional duty and. See institutional duty institutionalists and, 132-3 personally promote justice, 12, 134, 135-7 overdetermination, 13, 166-7 alternative approach to. See alternative approach to overdetermination denial of existence of, 176 moral status of, 165-6 necessary elements of a sufficient set and, 174-6 overdetermination-based constraints, 167, 171, 175 justifications for, 172, 174 sceptics and, 172 significance of, 177, 178, 181 overdetermining harm, 169-71 absolutism and, 172-3 scepticism and, 171-2, 180 universalisation requirement, 173-4 participatory derivation, 12-13 difference-making and, 148-50 international applications, 163-4 joining in what we should be doing and, 158 - 62

negative, 12, 150, 159, 160, 163

Index

not joining in what we should be doing, 154 - 8positive, 12, 149-50, 154-5, 157, 163 wrongness and, 149 performative attitude, 213 Pigovian taxation, 89, 94 polluter pays principle, 2, 110 luck egalitarianism and, 123-5 population chance of catastrophe from, 195-7 intuition of neutrality, 199 intuition of neutrality and. See intuition of neutrality temperal well-being of, 193 total utilitarianism and, 193, 194, 199 population ethics, 191-5 climate change modelling and, 14 climate change policy and, 199 intuition of neutrality. See intuition of neutrality purpose of climate justice, 92-5 generalist distributive approach, 92, 93-4 isolationist corrective approach, 92 isolationist distributive approach, 92 tradable quotas and, 94-5 rationality, 197, 215-16, 223 scepticism, 171-2 about climate change. See climate change scepticism sinks carbon. See carbon sinks terrestrial. See terrestrial sinks solar radiation management, 8, 45, 46 effects of, 47 space dust, 225-6 confronting scepticism of theory of, 227-8 hypothesis, 225-6 scepticism, 226-7 state consent imposition of trade restrictions and, 33-4 justification for constraints on, 25 modifications to doctrine of, 22-3 withholding of, 32 state sovereignty, 69 limitations on, 25, 31 states as agents, 163 fair shares consideration, 82-3 generations and, 118-20

moral assessment and, 163 negative participatory derivation and, 163 positive participatory derivation and, 163 regulatory institutional ambit of, 136 regulatory schemes, unjust nature of, 12 terrestrial sinks. See also carbon sinks protection of, 70-2 tradable quotas benefits of. 95-7 coordination and information and, 95-6 efficiency and, 95 fairness and, 106 flexibility and, 95 global justice and, 91 objections to. See objections to tradable quotas project based offsets, 97 proposed, asylum seekers, 96-7 purpose of climate justice and, 94-5 role of, 94 wrongness of emissions and, 98 treaty construction, 18-21 club method. See club method of treaty construction legitimacy and, 21-2 states and, 8 universal method, 7-8, 18-19, 37 uncertainty normative value of, 51-4 uncertainty, normative value of, 51-4 United Nations Framework Convention on Climate Change, 7, 17, 18-19, 75, 186 stages of, 14 stages of international process under, 184 ultimate objective of, 184 universal method of treaty construction, 37 utilitarianism, 133, 135 total, 193, 194, 195, 199 values in emissions calculation, 187 expected, 187-9 killing, 189-91 values, incommensurabilities of, 190-1 World Health Organization, 189 World Trade Organization, 20 wrongness, 150-1, 152, 154, 162

wrongness, 150–1, 152, 154, 16 non-human nature and, 15 of emissions, 98