Index

Adams, W.M. 41, 42
ADB 176
Adelman, I. 100
Advisory Opinion on the Legality of the Threat of Use of Nuclear Weapons 82
Africa 68, 137, 189, 242, 244
see also Sub-Saharan Africa
African Charter on Peoples Rights 81
Agency Managed Irrigation System (AMIS) 27, 28, 29
Agenda 21 85, 114
Agrawala, S. 50
agricultural commodity prices (impacts on global poverty) 246
Aid Strategies (assessment) 102
Al Gore 51, 148, 151
see also Gore, Al
Alaska 55
Amazon 56
Brazilian 185
Aminzadeh, S. 87
AMIS 31
Amsterdam 225
Amu Darya Delta 175
Anderson, M.S. 20
Antarctica 52, 72
anthropoids 47
Anti-genocide Convention 75
Aral Sea (shrinking) 175–6
Araral, E.35
Armenia 175
Arts, K. 79
ASEAN 68
Asia 2, 110, 244
Ayres, R.U. 10, 203, 192, 209
Azerbaijan 156
Bartlett, S. 91
Beckerman, W. 16, 116
Beijing 222
Belgium 66
benefit-cost 31
Bergh, J.C.J.M. van den 10, 11, 192, 194, 204
Berkhout, F. 198, 208, 210
Berman, H.J. 20
biodiversity 41, 43, 63
loss 174
loss and conflict 174
loss and water 174
treaty 65
biofuels 10–11, 12
biofuel (climate change) 238
Brazil 235
China 235
economic viability 236
EU 235
food crisis 241
food process 241
global production 236
India 235
poverty 241
production growth 235–6
production 233
subsidies 13
USA 235
biological pathogens, 9
Black, R. 147–8
Blaikie, P. 121
Bolivia 73
BOT 222
see also Build, Operate and Transfer
Botswana 136, 137, 189
boundaries 30
group 30
resource 30
symbolic 30
Bourguignon, F. 41
Bouwer, L. 53
Climate change and sustainable development

Brahmaputra 56
Brazil 51
Brookfield, H. 121
Brown, L.R. 16, 151
Brutland Commission 67
Brutland Report 62, 115, 215
BTL 248
Burma 138
Bush, G.W. 50
Buzan, B. 111, 112, 152

Canada 24
capabilities 37
Caribbean 59
Caucasus 165
CDM 97, 104
CEA 156, 161
CFCs 50, 52
Central Asia 165
Chambers, R. 180, 190
Chicago 22
child poverty 163, 165
Child Rights (Climate Change) 79
Children Alliance 84
China 2, 47, 51, 66, 107, 169, 189,
221–2, 230
water pollution 221
Chinese ecological initiative 225
see also ecological cities
Chinese Government 9, 214
see also China
CIA 153
civil wars 127
Clean Development Mechanism 51
see also CDM
clean energy 13
climate change 1, 13, 15, 40, 47, 48, 52,
80, 89, 101, 106, 152, 156
climate conflict 142
collective action 17, 18, 35, 45
collective choice 32
collective farms, 160
Collier, P. 38, 126
Colombia 137
Committee on the Rights of the Child 90
Common Fisheries Policy (CFP) 20
common pool resource 4, 13, 17, 18,
19, 26
Conciliar Process 71
Concluding Observation by the Committee on the Right of the
Child 88
conflict 8, 14, 126, 139
resolution 34
resource 126
years and growth 138
Consortium for Self-Governance (CSGA) 22
Constitution of the Oceans 64
Covenant on Economic, Social,
Cultural and Cultural Rights 92
Convention on the Rights of the Child (CRC) 79
COP 98
Cornia, A.G. 172
Costa, M. 111
Costa Rica 52
Cote d’Ivoire 135
CRC 86, 87, 88, 89, 90, 92
Crutzen, P.J. 16
CVM 119
DAC (donors) 106
Daly, H. 117
Danube 69
Darfur 111, 142, 149
Darkoh, M.B.K. 7, 179, 189
deluge 59, 76
dematerialization, digital see digital
dematerialisation
Denmark 19, 99, 105
deprivation (relative) 130

desertification 74
development (spatializing) 179

DFID 85, 92

Diamond, J. 55

Dietz, T. 7, 19, 47, 121
digital dematerialization 10, 14, 192
digital economy 194

Dijk, M.P. van 11, 214, 215, 218

Dollar, D. 38, 188

DRC (Zaire) 136–7

DRE 240

Earth Summit 122

East Asia 137

Emmerich, R. 51

Eastern Europe 117

EC 101

Treaty 65, 69

ecospace 47
ecological cities 9, 214

see also tomorrow’s cities

ecological city 9, 220

see also ecological cities

Ecological Neighbourhood 226

see also ecological city

economic growth 15, 37, 205

see also growth
economic theory 118

ECOSOC 74
ecospace 52

ecosystem goods 36

ecosystem service approach 36

see also ESapp

Ehrlich A.H. 100

Ehrlich, P.R. 100

Eichenberger, R. 20

El Niño 53

energy, sustainable 124

energy prices 12

energy security (food and biofuel) 249

environment (institutional) 171

environment and development 14

environmental change 37

environmental crisis 109–10

Environmental Kuznets Curve 207, 107

see also EKC

Environmental Security Council 72

environmental security 121

environmental transformation 9

EPA 50

epistemic communities 12

ESapp 4, 5, 42, 43, 45

ESapp framework 45, 46

ESCAP 249

ethanol prices (Brazil, EU and USA) 237

ethnic identities 127

EU 57

EU-ACP 69

Europe 68, 110

Factor Four 122

Factor X 207

FAO 40, 233

Farmer Managed Irrigation System (FMIS) 27, 28, 29

FCCC 79, 87, 95, 96, 115

federal systems (common-pool resources) 3

Feigl, H. 16

Fichter, K. 210

Fisher, B. 4, 7, 36

fisheries 26

Florida 22, 54

FMIS 31

food prices 12, 44, 233

biofuel impact 244

impact on poverty 242

food security 12

Fortman, B. 109, 115, 121

Framework Convention on Climate Change 50, 63

see also FCCC

France 105

Frey, B.S. 18, 20

G7 186

Gabčíkovo-Nagymaros Project 83

Gaia Peace Atlas, The 110

game theory 129

Ganges 56

GAO 160

Guardian, The 152

GDP 116, 128, 129, 157, 160, 226

Georgia 175

George W. Bush 148

see also Bush, G.W.

GAAT 70

GHG 51, 52, 53, 238–9, 248
Giariini, O. 119
Gibson, C. 19
Global South 8, 144
global warming 57
Global Youth Climate Movement 91
globalization 181, 183, 184, 187–8
GNI 94, 99
GOC 98
Gore, Al 109
see also Al Gore
governance regime 25
governance 18, 25, 33, 48
*Governing the Commons* 30
graduated sanctions 33
greed 127–8, 133
greed versus grievance 133
Green House Gas (GHG) 49, 59
green or mean 247–9
Greenland 55
grievance 130, 133, 127–8, 140
Gross World Product (GWP) 38
growth 13, 139
toory 10
GSP 92
Gupta, J. 6, 94, 96 103
Gustav, Hurricane 59
GWP 38, 39

Hancock, G. 190
Hansen, N.R. 16
Hardin, G. 26
Hartmann, B. 8, 142, 145
Haughton, G. 9
HDI (Human Development Indicators) 132
HDR (Human Development Report) 6, 80, 110, 132
health 9
Hegre, H. 136, 139
Henderson, H. 116
Hertin, J. 198, 208, 210
Hess, C. 18
Himalayas 56
Hisschemöller, M. 96
Hobbes, T. 134
Hoeffler, A. 126
*hominins* 47
*homo* 47
*homoeconomicus* 128
Homer-Dixon, T.F. 148

Hong Kong 52
horizontal inequality 131–2, 139
Horn of Africa 111
Hueting, R. 120
humanspace 47, 52
Humphreys, M. 134
Hungary 69

IAEA 65
ICE (Immigration and Custom Enforcement) 152
ICG 177
ICJ 82
ICSU 49, 50
ICT 2, 11, 192–3
categories of effects 210–11
impacts on dematerialization 211–12
induced commodities 202
information effects 200–201
material (material impacts) 196
micro level impacts 208–9
National Accounts 197
new markets, new products 202–3
price and income effects 200
production 197
R&D 201–2
see also research and development
rebound effects 210
stages of production 198–9
substitution and complementarity 204
typology 195
IFRI 244
Illinois 22
ILM 65
IMAGE 50
IMF 16, 38, 234
India 2, 32, 51, 66, 70, 137, 189
Indian Ocean 59
Indian University 19
Indiana 22
Indianapolis 22
Individual Transferable Quota (ITQ) 25
Indonesia 135, 136, 137
Indus 56
industrialization 9
inequality 37
horizontal 127, 140
vertical 127
information 195
  definition 195
  economy 194
markets 118
insecurity (environmental) 117
Institute of Fisheries Management 19
Institutional Framework (cotton production) 168
Inter-American Commission on Human Rights 83
Inter-American Declaration 83
intergenerational equity 66, 67
International Court of Justice 61, 69
  see also ICJ
International Forestry Resources and Institutions (IFRI) 33
International Environmental Law 60
  and humankind 64
International Timber Organization 74
Inuit 55
IPCC 1, 5, 16, 50, 51, 85, 95, 97, 239
IUCN 62
IUWM 217
Jansen, M. 88
Japan 105, 125
Johannesburg (World Summit) 65
Johannesburg Conference 2, 3, 66
Johnson, R.N. 16
Kant, I. 133–4
Kaplan, R.D. 150
Kathmandu 132
Katrina, Hurricane 54, 59, 144, 149, 150
Kazakhstan 156
Kenworthy, J.R. 9, 219
Keynes, J.M. 116
Khayesi, M. 7, 179,
Kilimanjaro 56
Kellogg, Brown and Root (KBR) 152
Korea, South 137
Kraay, A. 188
Kuhnert, S. 19
Kyoto Protocol 50, 79
Kyrgyzstan 156
La Niña 53
Lam, W.F. 27, 28
Latin America 2, 68, 189, 244
Law of the Sea 65
Lempert, R.J. 10
Lerman, Z. 160, 161
Licari, L. 86,
  Limits to Growth 119
Linderhof, V.G.M. 192
Lipset, S. 135
Live Cycle Analysis (LCA) 194
livelihoods 37
lobster 27
Local Public Economies 24
Locke, J. 134
Maastricht Treaty 101
MAGW 50
Malaria 9
Malaysia 70
Male Declaration on the Human
  Dimension of Climate Change 87
malnourishment 163
  see also malnutrition
malnutrition 164
  see also malnourishment
Malthus, T.R. 145
Malthusian (population/scarcity) 143, 144, 147
marginal analysis 43
markets (restructuring) 120
markets (using) 122
Martinez-Alier, J. 38, 39
Massey, D. 184
Material Product Chain (M-P) 194
Mbaiwa, J.E. 189
McCarthy, T. 48
McGinnis, M. 19, 22
McKenzie, M. 92
McLaughlin, S.B. 16
Mcmanus, P. 9
MDGs 2, 3, 4, 40, 45, 80, 123, 222
  see also Millennium Development Goals
MDGs Declaration 3
Meadows, D.H. 119
MEDEA 153
Mediterraneanization 56
Metropolitan 23
Mexico 51, 70
Millennium Summit (UN) 60
minimal recognition of rights 34
Mintrom, M. 19
Climate change and sustainable development

Missouri 22
Mol, A.P.J. 11–12, 16
monitoring 32, 33
Montisquieu, C.L. 134
Moon Treaty 63
Morrison, C. 41
mortality (under 5) 163
Moss, R.H. 112
Mozambique 137, 138
multiple switches 139
Munton, R. 186
Murshed, S.M. 7, 8, 126, 138
Myers, N. 145–6

N2O 239
National Academy of Science Panel on Common Property 26–7
National Geographic 52
National Research Council 27
natural disasters 89
NeoMalthusian 8, 100
Nepal 27, 29, 31, 35, 132
Irrigation Institutions System (NIIS) 27, 28
Nepali farmers 35
nested enterprises 34
Netherlands, The 49, 50, 54, 56, 99, 105, 244
Ministry of Foreign Affairs 123
Netting, R. McC. 20, 26
New International Economic Order 62
New Orleans 150
New York 22
New Zealand 53
Newman, D. 114
Newman, P. 9
NGETs 10
NGOs 50, 52, 70, 74, 82, 83, 97, 103, 104, 105, 118, 142
Community 50
Joint European NGOs Report 104
Nigeria 135
Noordwijk Declaration 95
North 54, 55, 94, 95, 114
North–South 94, 95
see also Global North
North European Coast 56
North Pole 57
Norway 52, 73, 99, 105

ODA 98, 106
OECD 44, 67, 97, 98, 99, 101, 103, 107, 206, 207, 236, 239, 244, 245, 248
OECD-DAC 98
OHCHR 88
Oposa Judgment 82
Opschoor, J.B. 3, 11, 17, 18, 19, 47, 48, 58, 59, 75, 76, 109, 112, 115, 117, 120, 124, 125, 191, 192, 194, 215
Ostrom, E. 3, 4, 17, 18, 19, 20, 21, 23, 26, 30, 35
Our Common Future 68, 182
see also Brutland Report
Outer Space Treaty 63

Pagiola, S. 42, 44
Paine, T. 134
Pakistan 70
Parks, R. 23
Patzek, T.W. 16
peace (perpetual) 134
PES 4, 5, 44, 45
Philippines, 71, 82, 137
polarization (economic) 131
police 23
policy research 43
pollution (water and air) 176
polycentric 17
approach 22
type 21
see also polycentricity 19, 24
poverty 5, 36
alleviation 41
child 157
income poverty 157
non-income poverty 157
rates in Kazakhstan 167
reduction 2, 5, 15, 37
rural and national poverty 156, 159
trap 126
and vulnerability 158
PPP 244
see also purchasing power parity
precaution 59
Precautionary Principle 43, 64, 65
Prisoner's Dilemma 113
property rights 129
proportional equivalence 31
public goods 17, 18, 20, 37
Index

R&D 240
see also research and development
Rasmussen, L. 114
rational choice theory 126
RDS-TMC 2003
redistribution of risk 110
refugees (climate) 144–5,
refugees (environmental) 144–5
refugees (Army Corps of Engineers) 151
regime matches 25
Reijnders, L. 202, 207
remittances 162
research and development (R&D) 196
resource (degradation) 168, 173
Rio de Janeiro 67
see also Rio Declaration 62, 68
Rita, Hurricane 59
RIVM 50, 205
Robinson, M. 84, 90
Rokx, C. 164
Ross, M.L. 140
Rotterdam 224
Rubige, B. 48
Russia 73, 159
Sachs, W. 114, 142
Sahel 55
Salih, M.A.M. 1
Sancton, A. 24
Sands, P. 61
Satterthwaite, D. 9
Scandinavia 55
Schrijver, N.J. 59, 64
securitized (environment) 152
security 59, 110
conceptualizing 110
environmental 109, 111–12
environmental strategies 113
human 110
livelihood 154
national 143
self organized systems 33
Sen, A. 37, 100
SEPA 222
see also State Environmental Protection Agency
Shelton, D. 87
Siberia 55
Simmons, C.S. 185
Singapore 137
Slovakia 69
Small Police Agencies 23
SMEs 199
Smith, Adam 115
SMSAs 23
social capital 33
social contract 133
soil salinity 174
South 54, 114
South Africa 47, 110, 245
South Asia 249
South, Canada 55
South Korea 125
Southeast Asia 57
SPA 197
Spoor, M. 7, 156, 158
Sri Lanka 137
Srinivasan, U.T. 39
St. Louis 22
Standard Metropolitan Statistical Area 23
see also SMSAs
state procurement 170
state farms 160
Statistical Classification of Products by Activity 195
see also SPA
Stewart, Francis 131
Stockholm Conference 81
Stockholm Declaration 62
Sub-Saharan Africa 245, 249
sustainability 59, 71
substantive law 120
supply chain (cotton) 172,
sustainability (strong and weak) 72, 116
sustainable development 1, 13, 15, 59,
179, 181, 182, 184–5
principles 67, 70
spatial dimension 182
sustainable city management 219–20
sustainable urban development 67, 214
sustainable water planning research results 229–30
Sweden 61, 99, 105
Switch approach (research) 9, 217, 219
Switzerland 20
Tai Lake 223
Taiwan 137
Tajikistan 156
Tampa-St Petersburg 22
Tanzania 138
taxation 170
taxes 170
Thailand 70
Tinbergen, J. 42, 72
Third World 145
Tomorrow's cities 9
see also ecological cities
Toonen, T.A.J. 20
Total Productivity Factor 205
see also TPF
tragedy of the commons 25
Treaty on Migrating Fish 65
Treaty on Persistent Organic Pollutants 65
Truman, H.S. 99
Turkey 51
Turkmenistan 156
Turner 4, 7, 36
Uganda 137
UK Government 186
Ukraine 159
UN (Commission for Europe) 81
UN (High Commission on Human Council) 84
UN (High Commission on Human Rights) 84
UN Convention on the Law of the Sea 63, 67, 68
UN Millennium Project 40
UN Trusteeship Council 72
UNCED 112
see also Rio Declaration
UN/DESA 246
UNDP 6, 16, 49, 50, 85, 110, 111, 142, 149
UNESCO 60, 63, 175
UNESCO-IHE 216, 223
UNICEF 84, 91, 161, 164
United Nations (Charter) 61
United States (US) 24, 54
Universal Declaration on Cultural Diversity 63
UNWEO 74
urban water cycle management 218
urban water management approaches 224–5
urbanization 9
US 57
DoD or Department of Defense 153
Homeland Security 153
Northern Command 153
Uzbekistan 156
VAT (Value Added Tax) 122
Vellinga, P. 53
Venezuela 73
Verbruggen, H. 192, 205
Vos, R. 12, 100, 233
Wackernagel, M. 9
Walsh, M.E. 16
water, piped 162
water city (Wuhan city in China) 223
water recycling system 226–7
WCED 60, 100, 115, 182
Weeramantry, Judge 83
Wernick, I. 16
West Africa 53
West European Community 117
wetlands (in Chinese ecological cities) 229
Whitaker, G. 23
WHO 85, 86
WIEWLWS 239
Wilde, Oscar 118
Wilson, D. 19, 20
WMO 49, 50
World Bank 66, 91, 158, 168, 233, 241, 242, 234, 243
World Declaration on the Survival, Protection and Development of Children 84
World Development Indicators Database 39
World Development Report (WDR) 38
world food prices index 234
World Heritage Convention 61
World Heritage Sites 61
Index

World Summit 3, 84, 112
on Children 84
Johannesburg 112
WTO 16, 68, 70
The Appellate Body 70

Yangtze River 223
Zambia 138
Zimbabwe 138