

Notes

Chapter 1

- 1 Diamond 2005.
- 2 Kennedy 1963.
- 3 Sen 1999.
- 4 UN 2007b.
- 5 World Bank 2007c.
- 6 UNDP 2006b.
- 7 Government of India 2007.
- 8 World Bank 2007c.
- 9 UNDP 2006b.
- 10 WHO 2006; WHO and UNICEF 2005.
- 11 Lopez 2006.
- 12 Wagstaff and Claeson 2004.
- 13 World Bank 2003.
- 14 Hansen et al. 2006.
- 15 ISSC 2005.
- 16 ISSC 2005; European Union 2007b; den Elzen and Meinshausen 2005; Schellnhuber 2006; Government of France 2006.
- 17 Warren et al. 2006.
- 18 Warren et al. 2006.
- 19 OFDA and CRED 2007.
- 20 Anthoff et al. 2006; Dasgupta et al. 2007.
- 21 IPCC 2007b, Chapter 4: Ecosystems, their Properties, Goods, and Services; Warren et al. 2006.
- 22 IPCC 2007b, Chapter 8: Human Health, Summary Table 8.2.
- 23 Sen 1999.
- 24 IPCC 2007d.
- 25 This correlation highlights carbon cycle feedbacks, with the biosphere losing carbon to the atmosphere in response to higher temperatures, which in turn drives temperatures upwards.
- 26 Lockwood and Fröhlich 2007.
- 27 IPCC 2007d.
- 28 The total radiative forcing effect of greenhouse gases is measured in terms of the equivalent concentration (in parts per million, or ppm) of CO₂. There are six greenhouse gases recognized under the Kyoto Protocol. These are carbon dioxide, methane, nitrous dioxide, perfluorocarbons (PFCs), hydrofluorocarbons (HFCs) and sulphur hexafluoride (SF₆).
- 29 Anthropogenic contributions to aerosols (mainly sulphate, organic carbon, black carbon, nitrates and dust) produce a cooling effect by blocking solar radiation.
- 30 The radiative forcing value for non-CO₂ long-lived greenhouse gases is 0.98 (Wm⁻²) and the cooling effect of aerosols is 1.2 (Wm⁻²) (IPCC 2007d).
- 31 ppm stands for parts per million and in this instance is the number of greenhouse gas molecules per million molecules of dry air.
- 32 IPCC 2007d.
- 33 Henderson 2006a.
- 34 Caldeira 2007; Caldeira, Jain and Hoffert 2003; Henderson 2006a.
- 35 IPCC 2007f.
- 36 Flannery 2005.
- 37 Stern 2006.
- 38 Preindustrial temperature refers to the average temperature for the period 1861-1890.
- 39 IPCC 2007a, Chapter 10: Global Climate Projections.
- 40 Meinshausen 2005.
- 41 Meinshausen 2005.
- 42 Personal correspondence with Dr Malte Meinshausen, Potsdam Institute for Climate Impact Research.
- 43 Personal correspondence with Dr Malte Meinshausen. The reference year period for the temperature increase is 1980 to 1999.
- 44 Schlesinger et al. 2005.
- 45 IPCC 2007d.
- 46 Hansen et al. 2007; Pritchard and Vaughn 2007.
- 47 Hansen 2007a, 2007b.
- 48 Schellnhuber and Lane 2006; Schellnhuber 2006.
- 49 Jones, Cox and Huntingford 2005.
- 50 CNA Corporation 2007.
- 51 Gullison et al. 2007.
- 52 IPCC 2007e.
- 53 WRI 2007a.
- 54 IEA 2006c.
- 55 Volpi 2007.
- 56 Volpi 2007.
- 57 PEACE 2007.
- 58 Modi et al. 2005.
- 59 IEA 2006c.
- 60 IEA 2006c.
- 61 The equivalent figure for a carbon equivalent budget covering all Kyoto greenhouse gases is around 600 Gt CO₂e, or 6Gt CO₂e annually. This translates into around 22 Gt CO₂e. Current emissions are around double this level. In 2004, total greenhouse gas emissions were estimated by the IPCC at around 49 Gt CO₂e annually (IPCC 2007c).
- 62 Stern 2006.
- 63 Barker and Jenkins 2007.
- 64 For example, the Stern Review examined a stabilization scenario set at 550 ppm. Research carried out for this year's HDR extrapolates from these models to derive the cost implications of keeping within a 2°C threshold, or around 450 CO₂e.
- 65 HDRO calculations based on the annual cost expressed as percentage of GDP in Barker and Jenkins 2007. The calculation is the average yearly cost in the period 2000–2030 weighted by the size of the global economy over that period. Barker and Jenkins 2007 also present other scenarios with lower mitigation costs.
- 66 Stern (2006), on which these figures are based, discusses a wide range of estimates.
- 67 Barker and Jenkins (2007) project the cost of stabilization at 450ppm CO₂e at 2–3% of GDP, falling to 1–2% with permit trading. If the policy framework also allows for the revenues from auctioning permits and carbon taxes to be recycled, these would entail tax reform. National and global economies could benefit by as much as 5% of GDP above the 2030 baseline.
- 68 The Kyoto Protocol was negotiated in Japan in 1997 within the framework of the UNFCCC. Under the terms of the Protocol, Annex I parties representing 55 percent of 1990 emissions were required to accept binding limits on emissions. Ratification by the Russian Federation in 2004 provided the critical mass to meet this condition.
- 69 Calculation based on data from IEA 2006c.
- 70 Annex I parties include the industrialized countries that were members of the OECD in 1992, plus countries with economies in transition (the EIT Parties), including the Baltic States, several Central and Eastern European States and the Russian Federation, Non-Annex I parties are mostly developing countries.
- 71 Roberts 2005.

- 72** Council on Foreign Relations 2006.
- 73** IEA 2006c.
- 74** Hansen 2007c.
- 75** UNDP 2006b; UNDP Ukraine 2006.
- 76** IEA 2006c.
- 77** IPCC 2007f.
- 78** Stern 2006; Nordhaus 2007.
- 79** IMF 2006.
- 80** Smith 1854.
- 81** World Commission on Environment and Development 1987.
- 82** Anand and Sen 1996.
- 83** Sen 2004.
- 84** Appiah 2006.
- 85** Nordhaus 2007.
- 86** Nordhaus 2006.
- 87** The discount rate that emerges from a very simple standard economic model considering only one infinitely lived representative agent and other simplifying assumptions can be expressed by: $\rho = \delta + \eta g$, where δ is the social rate of time preference, g is the projected growth rate of consumption per capita, and η is the elasticity of the social weight—or marginal utility—attributed to a change in consumption. It is standard assumption that utility will decrease when consumption increases, making always positive. In this simplifying framework, it is also considered constant.
- 88** In fact, the only justifiable reason for discounting the welfare of future generations, according to Stern (2006), was the possibility of extinction. He therefore allows for a very small rate of pure time preference of 0.1 percent.
- 89** Arrow 2007.
- 90** Ramsey 1928.
- 91** Stern and Taylor 2007.
- 92** However, the case does not rest on economics alone. Arrow (2007) has shown that if the costs and benefits of mitigation suggested in the Stern Review are accepted, then the case for early action now is only rejected with a rate of pure time preference above 8.5 percent—a value that not even the strongest critics of Stern would advocate.
- 93** Wolf 2006b; Weitzman 2007.
- 94** Schelling 2007.
- 95** Dasgupta 2001.
- 96** HSBC 2007.
- 97** Pew Center on Global Climatic Change 2006.
- 98** Pew Center on Global Climatic Change 2006.
- 99** Leiserowitz 2007.
- 100** Leiserowitz 2006.
- 101** Leiserowitz 2006.
- 102** European Commission, Directorate General for Energy and Transport 2006.
- 103** HSBC 2007; The Economist 2007a.
- 104** Bernstein 1998.
- 105** Boykoff and Roberts 2007.
- 106** Boykoff and Roberts 2007; Boykoff and Boykoff 2004.
- Chapter 2**
- 1** de Montesquiou 2005.
- 2** Itano 2002.
- 3** Personal interview with Kaseyitu Agumas, 22 March 2007, Ethiopia.
- 4** Raworth 2007b.
- 5** Personal interview with Instar Husain, 2 February 2007, Bangladesh.
- 6** Sen 1999.
- 7** OFDA and CRED 2007.
- 8** ABI 2005a.
- 9** WMO 2006.
- 10** OFDA and CRED 2007.
- 11** Reliefweb 2007; BBC News 2007.
- 12** IFRC 2006.
- 13** OFDA and CRED 2007.
- 14** Skutsch et al. 2004.
- 15** IPCC 2007e.
- 16** Dercon 2005; Chambers 2006.
- 17** Calvo and Dercon 2005.
- 18** Our framework for looking at risk and vulnerability differs in emphasis from the conceptual framework used by the disaster-risk community. The standard approach is based on the following formulae: risk=hazard exposure*vulnerability (with hazard exposure a function of degree of hazard*elements exposed) (Maskrey et al. 2007).
- 19** ADB 2001.
- 20** GSS, NMIMR and ORC Macro 2004; CBS, MOH and ORC Macro 2004.
- 21** Roberts and Parks 2007.
- 22** USAID FEWS NET 2006.
- 23** OFDA and CRED 2007.
- 24** WEDO 2007.
- 25** Watt-Cloutier 2006.
- 26** Chafe 2007.
- 27** Rosenzweig and Binswanger 1993.
- 28** Dercon 1996.
- 29** Elbers and Gunning 2003.
- 30** OECD 2006b.
- 31** GAO 2007.
- 32** Devereux 2002.
- 33** Dercon, Hoddinott and Woldehanna 2005.
- 34** Dercon 2005.
- 35** Carter et al. 2007.
- 36** WFP 2005; IFRC 2005b.
- 37** Behrman and Deolalikar 1990; Dercon and Krishnan 2000; Rose 1999.
- 38** Baez and Santos 2007; de Janvry et al. 2006a.
- 39** de la Fuente and Fuentes 2007.
- 40** Devereux 2006b.
- 41** Hoddinott and Kinsley 2001.
- 42** Banerjee Bénabou and Mookherjee 2006.
- 43** Carter and Barrett 2006.
- 44** IPCC 2007d, 2007e.
- 45** The IPCC uses two-sided confidence intervals of 90 percent.
- 46** IPCC 2007e.
- 47** Warren et al. 2006.
- 48** World Bank 2006b.
- 49** World Bank 2003.
- 50** World Bank 2003.
- 51** Delgado et al. 1998.
- 52** Cline 2007.
- 53** Fischer et al. 2005; Agoumi 2003 cited in IPCC 2007b, Chapter 9: Africa.
- 54** Kurukulasuriya and Mendelsohn 2006.
- 55** UNEP and GRID – Arendal 2001.
- 56** Carvajal 2007.
- 57** UNEP 2007a.
- 58** Vaid et al. 2006.
- 59** World Bank 2006f.
- 60** Stern 2006.
- 61** Government of India 2007.
- 62** Government of the People's Republic of Bangladesh 2005b.
- 63** Kelkar and Bhadwal 2007.
- 64** PEACE 2007.
- 65** Jones and Thornton 2003.
- 66** IPCC 2001.
- 67** FAO 2004.
- 68** Water stress is defined as a situation where the per capita availability of renewable fresh water is between 1,000 cubic metres and 1,667 cubic metres. Water scarcity refers to a situation of living with an annual per capita availability of renewable fresh water of 1,000 cubic metres or less.
- 69** Bou-Zeid and El-Fadel 2002.
- 70** IPCC 2007b, Chapter 9: Africa.
- 71** Bou-Zeid and El-Fadel 2002.
- 72** UNEP 2007b.
- 73** Carvajal 2007.
- 74** Khoday 2007.
- 75** UNEP 2007b.
- 76** Regmi and Adhikari 2007.
- 77** Khoday 2007.
- 78** UNDP 2006b; Rosegrant, Cai and Cline 2002.
- 79** Vergara et al. 2007.
- 80** Maskrey et al. 2007.
- 81** Emanuel 2005.
- 82** Pierce et al. 2005.
- 83** Maskrey et al. 2007.
- 84** Arnell 2004.
- 85** Anthoff et al. 2006; Dasgupta et al. 2007.
- 86** Hemming 2007.
- 87** Hemming 2007; Brown 2007.
- 88** Brown 2007.
- 89** Agrawala et al. 2003.
- 90** World Bank 2006c.
- 91** IPCC 2007b, Chapter 16: Small Islands; Dasgupta et al. 2007.
- 92** UN-HABITAT 2006.
- 93** Millennium Ecosystem Assessment 2005.
- 94** World Watch Institute 2005.
- 95** Finlayson and Spiers 2000.
- 96** Hansen 2006.
- 97** IPCC 2007b, Chapter 4: Ecosystems, their Properties, Goods, and Services.
- 98** ACIA 2004.
- 99** Government of the United States 2006b.
- 100** The United Nations Convention on the Law of the Sea entered into force in 1994. It is a set of rules for the use of the world's

- oceans, which cover 70 percent of the Earth's surface.
- 101** ACIA 2004; Perelet, Pegov and Yulkin 2007.
- 102** Hare 2005; Henderson 2007.
- 103** Henderson 2006b.
- 104** PEACE 2007.
- 105** Gardner et al. 2003.
- 106** Caldeira 2007.
- 107** Caldeira 2007.
- 108** Caldeira 2007.
- 109** Carvajal 2007.
- 110** McMichael et al. 2003.
- 111** WHO and UNICEF 2005; WHO 2006.
- 112** Tanser, Sharp and le Seur 2003.
- 113** van Lieshout et al. 2004.
- 114** Chretien et al. 2007.
- 115** Stern 2006.
- 116** PEACE 2007.
- 117** WMO 2006.
- 118** Epstein and Mills 2005.
- 119** Epstein and Rogers 2004.
- 120** New York Climate & Health Project 2004.
- 121** New York Climate & Health Project 2004.
- Chapter 3**
- 1** Government of the United Kingdom 2007a.
- 2** Government of France 2006.
- 3** Government of France 2006.
- 4** Government of Germany 2007.
- 5** G8 2007.
- 6** Hanemann and Farrell 2006.
- 7** These states include: Arizona, California, Connecticut, Florida, Hawaii, Illinois, Maine, Massachusetts, Minnesota, New Hampshire, New Jersey, New Mexico, New York, Oregon, Rhode Island, Vermont and Washington (Pew Center on Global Climate Change 2007c).
- 8** The Governors of Connecticut, Delaware, Maine, New Hampshire, New Jersey, New York, and Vermont established the RGGI in 2005. Maryland, Massachusetts and Rhode Island joined in 2007 (Pew Center on Global Climate Change 2007c).
- 9** Arroyo and Linguiti 2007.
- 10** Claussen 2007.
- 11** Brammer et al. 2006.
- 12** Pew Center on Global Climate Change 2007a.
- 13** USCAP 2007.
- 14** Arroyo and Linguiti 2007.
- 15** Arroyo and Linguiti 2007.
- 16** UNFCCC 2006.
- 17** EIA 2006; Arroyo and Linguiti 2007.
- 18** IPCC 2007c, Chapter 5: Transport and its infrastructure.
- 19** Cairns and Newson 2006.
- 20** Doniger, Herzog and Lashof 2006.
- 21** Sullivan 2007.
- 22** UNFCCC 2006.
- 23** Government of Australia 2007.
- 24** Henderson 2007.
- 25** Government of New South Wales 2007.
- 26** Acuiti Legal 2003.
- 27** Pederson 2007; Nippon Keidanren 2005.
- 28** Examples in this paragraph are taken from Pew Center on Global Climate Change 2007b.
- 29** Roosevelt 2006.
- 30** On the case for carbon taxation and the critique of cap-and-trade see Cooper 2000, 2005; Nordhaus 2005; Shapiro 2007.
- 31** Hanson and Hendricks 2006.
- 32** Nordhaus 2006.
- 33** HDR calculation based on data from Indicator Table 24; OECD emissions of CO₂ in 2004 were 13.3 Gt.
- 34** Stern 2006.
- 35** Shapiro 2007.
- 36** Shapiro 2007; EPA 2006.
- 37** IPCC 2007f. The global mitigation potential relative to the IPCC's SRES A1B non-mitigation scenario is estimated at 17–26 Gt CO₂e/yr with a carbon price of US\$1/t CO₂e, or 25–38 percent.
- 38** Toder 2007.
- 39** Sierra Club 2006.
- 40** EEA 2004.
- 41** International Network for Sustainable Energy 2006.
- 42** Cairns and Newson 2006.
- 43** During Phase II the scheme will cover 27 countries.
- 44** There are three flexibility mechanisms introduced by the Kyoto Protocol: Emissions Trading, the Clean Development Mechanism (CDM) and Joint Implementation (JI). Unlike the CDM that links mitigation efforts in developing and developed countries (Annex I and non-Annex I parties), through the Joint Implementation, Annex I parties may fund emission reducing projects in other Annex I parties, typically countries in Eastern Europe.
- 45** UNFCCC 2007e.
- 46** Point Carbon 2007.
- 47** Carbon Trust 2006.
- 48** Grubb and Neuhoff 2006.
- 49** Carbon Trust 2006.
- 50** Government of the United Kingdom 2006b.
- 51** Sijm, Neuhoff and Chen 2006.
- 52** EU 2007c.
- 53** Hoffmann 2006.
- 54** Hoffmann 2006.
- 55** WWF 2007a, 2007b.
- 56** Reece et al. 2006; WWF 2006b, 2007a.
- 57** WWF 2007a, 2007b.
- 58** IEA 2006c.
- 59** IEA 2006c.
- 60** Government of the United States 2007a.
- 61** IEA 2006c.
- 62** NEA 2006.
- 63** The Economist 2007b.
- 64** Greenpeace and GWEC 2006.
- 65** NCEP 2004a.
- 66** Philibert 2006.
- 67** Arroyo and Linguiti 2007.
- 68** Greenpeace and GWEC 2006.
- 69** NCEP 2004a.
- 70** NCEP 2004a.
- 71** Üрге-Vorsatz et al. 2007a; IEA 2006b.
- 72** Üрге-Vorsatz, Mirasgedis and Koeppel 2007b.
- 73** Üрге-Vorsatz, Mirasgedis and Koeppel 2007b; EC 2005a.
- 74** IEA 2003.
- 75** IEA 2003; World Bank 2007d.
- 76** IEA 2003, page 128.
- 77** IEA 2006b.
- 78** Üрге-Vorsatz, Mirasgedis and Koeppel 2007b.
- 79** IEA 2003, 2006a.
- 80** Üрге-Vorsatz, Mirasgedis and Koeppel 2007b.
- 81** EC 2006a.
- 82** IPCC 2007c, Chapter 5: Transport and its infrastructure.
- 83** Merrill Lynch and WRI 2005.
- 84** Merrill Lynch and WRI 2005; NCEP 2004a.
- 85** Arroyo and Linguiti 2007.
- 86** NCEP 2004a.
- 87** EFTA 2007.
- 88** CEC 2007c.
- 89** CEC 2007c.
- 90** EFTA 2007.
- 91** Baumert, Herzog and Pershing 2005.
- 92** Government of the United States 2007c.
- 93** EC 2007a.
- 94** Steenblik 2007.
- 95** Runnalls 2007.
- 96** Runge and Senauer 2007.
- 97** Runge and Senauer 2007.
- 98** EC 2007a.
- 99** Summa 2007.
- 100** The payment is currently set at €45 per hectare with a minimum guaranteed area of 1.5 million hectares (CEC 2005b).
- 101** IEA 2006c; IPCC 2007c, Chapter 5: Transport and its infrastructure.
- 102** CEC 2006c; Jank et al. 2007.
- 103** Elobeid and Tokgoz 2006.
- 104** Tolgfors, Eriandsson and Carlgren 2007.
- 105** Schnepf 2006.
- 106** NASA 2005; Smithsonian National Air and Space Museum 1999.
- 107** Stern 2006.
- 108** Thermal efficiency describes the rate at which fuel is transformed into energy.
- 109** Watson et al. 2007.
- 110** IEA 2006b.
- 111** Government of the United States 2007b.
- 112** Government of the United States 2007b.
- 113** Watson et al. 2007; Rubin 2007.
- 114** Government of the United States 2005.
- 115** Government of the United States 2006a.
- 116** European Technology Platform on Zero Emission Fossil Fuel Power Plants (ZEP) 2007.
- 117** EC 2005b.
- 118** European Technology Platform on Zero Emission Fossil Fuel Power Plants (ZEP) 2007.

- 119** Government of the United Kingdom 2006c.
- 120** Rubin 2007a; Claussen 2007.
- 121** CEC 2007d.
- 122** Government of the United States 2007a.
- 123** Watson 2007.
- 124** OECD 2005c.
- 125** Watson 2007.
- 126** OECD 2005c.
- 127** Watson et al. 2007.
- 128** Data in this section is derived from tables in Annex A of IEA 2006c.
- 129** Winkler and Marquard 2007.
- 130** Watson et al. 2007.
- 131** Davidson et al. 2006.
- 132** Government of India 2006a, 2006b.
- 133** Watson et al. 2007.
- 134** Winkler and Marquard 2007.
- 135** IEA 2006c.
- 136** IEA 2006c.
- 137** Watson 2007.
- 138** Watson 2007.
- 139** Victor 2001.
- 140** UNFCCC 2007c.
- 141** World Bank 2007f.
- 142** World Bank 2007b.
- 143** FAO 2007b.
- 144** This value refers to the change in carbon stocks above and below ground biomass. To convert the reported values from carbon to carbon dioxide, a conversion factor of 3.664 has been applied (FAO 2007b).
- 145** PEACE 2007.
- 146** There are wide variations in estimates of CO₂ emissions linked to changes in forest areas. FAO Forest Resources Assessment data on carbon stocks in forests 1990–2005 suggests that approximately 1.1 Gt CO₂ are released a year from Brazilian forests—only from living biomass (above and below ground) (FAO 2007b).
- 147** Butler 2006.
- 148** The values used in this example are drawn from Chomitz et al. 2007.
- 149** Chomitz et al. 2007.
- 150** Pearce 2001.
- 151** Volpi 2007.
- 152** Chomitz et al. 2007.
- 153** Tauli-Corpuz and Tamang 2007.
- 154** INPE 2007.
- Chapter 4**
- 1** ABI 2007b.
- 2** IPCC 2007b, Chapter 12: Europe.
- 3** Linklater 2007.
- 4** CEC 2007b.
- 5** Huisman 2002; EEA 2007.
- 6** UKCIP 2007; The Economist 2007c; ABI 2007b.
- 7** Hulme and Sheard 1999b; British Oceanographic Data Centre 2007; Government of Japan 2002; EEA 2007.
- 8** EEA 2007; WWF 2002; Schröter, Zebisch and Grothmann 2005.
- 9** California Public Utilities Commission 2005; California Department of Water Resources 2006; Franco 2005; Government of California 2006; Cayan et al. 2005.
- 10** National Audit Office 2001.
- 11** CEC 2007b.
- 12** Branosky 2006; EPA 2006.
- 13** NFU 2005.
- 14** Practical Action 2006a.
- 15** Rahman et al. 2007; Raworth 2007b.
- 16** Chaudhry and Rysschaert 2007.
- 17** Cornejo 2007.
- 18** WRI, UNEP, and World Bank 2005; Narain 2006.
- 19** Practical Action 2006b.
- 20** Birch and Grahn 2007.
- 21** Glemarec 2007a.
- 22** Glemarec 2007b.
- 23** Washington et al. 2006.
- 24** Washington et al. 2006; Intsiful et al. 2007.
- 25** Meteo France 2007.
- 26** Regional Hunger and Vulnerability Programme 2007.
- 27** Intsiful et al. 2007.
- 28** IRI 2007.
- 29** G8 2005.
- 30** Intsiful et al. 2007.
- 31** Global Climate Observing System, UN Economic Commission for Africa and African Union Commission 2006.
- 32** OECD 2007a.
- 33** Nguyen 2007.
- 34** Jha 2007.
- 35** DFID 2006.
- 36** IFRC 2002.
- 37** Tanner et al. 2007.
- 38** The conversion factor is around 15 percent.
- 39** Ethiopia, for example, has a harvesting potential of 11,800m³ per capita compared to 1,600m³ per capita of renewable river and groundwater. Similarly for Kenya: 12,300m³ compared to 600m³ per capita, and Tanzania: 24,700m³ compared to 2,200m³ per capita for water harvesting potential, and renewable river and groundwater potential, respectively (UNEP 2005).
- 40** Narain 2006.
- 41** Devereux 2006b.
- 42** Grinspun 2005.
- 43** de Janvry and Sadoulet 2004.
- 44** de Janvry et al. 2006b; Barrientos and Holmes 2006.
- 45** Schubert 2005; Barrientos and Holmes 2006; Randel 2007. Calculations based on data in Indicator Tables 14 and 18.
- 46** ISDR 2007a.
- 47** de la Fuente 2007a.
- 48** ISDR 2007b.
- 49** IFRCa 2005; Catholic Relief Services 2004; Carvajal 2007; OFDA and CRED 2007.
- 50** Thompson and Gviria 2004; IFRC 2005a. By comparison, there were 36 deaths in Florida.
- 51** IFRC 2006.
- 52** The UNFCCC deals with adaptation in several articles. Under Article 4.1(f): All Parties shall “take climate change considerations into account, to the extent feasible, in their relevant social, economic and environmental policies and actions, and employ appropriate methods, for example impact assessments, formulated and determined nationally, with a view to minimizing adverse effects on the economy, on public health and on the quality of the environment, of projects or measures undertaken by them to mitigate or adapt to climate change.” Under Article 4.4: “The developed country Parties and other developed Parties included in Annex II shall also assist the developing country Parties that are particularly vulnerable to the adverse effects of climate change in meeting costs of adaptation to those adverse effects.”
- 53** Heimann and Bernstein 2007.
- 54** Alaska Oil Spill Commission 1990.
- 55** Gurría and Manning 2007.
- 56** Gurría and Manning 2007.
- 57** As of April 30th 2007, see GEF 2007a. Corporate costs and administrative expenses and fees paid to the three implementing agencies—the World Bank, UNDP and UNEP—accounts for another US\$2 million, or around 20 percent of total disbursements to date.
- 58** Proposals already in advanced stages, such as Bangladesh, Bhutan, Malawi, Mauritania and Niger are expected to receive an average of US\$3–3.5 million each to start implementing the first priorities of their NAPA.
- 59** The fund also covers technology transfer.
- 60** GEF 2007a, 2007c.
- 61** GEF 2007b.
- 62** Müller and Hepburn 2006.
- 63** Abbott 2004.
- 64** Frankel-Reed 2006. The sample included projects where climate change risks and vulnerability were explicit considerations. Business-as-usual development activities (e.g. increased water provision, public health capacity) that may have reduced vulnerability to climate change but were not designed intentionally to support adaptation were not considered.
- 65** World Bank 2007g.
- 66** Agrawala 2005.
- 67** For a summary of the methodology and list of DAC sector and purpose codes used, see Agrawala 2005.
- 68** The World Bank estimates costs of adaptation as 5–20 percent of development investment sensitive to climate. For 2005 ODA, this amounts to between US\$1.0 billion and US\$8.1 billion, with US\$4.5 billion as the mid-range value.

- 69** Gurría and Manning 2007.
- 70** OCHA Financial Tracking System [www.reliefweb.int/fts.] cited in Oxfam International 2005.
- 71** Müller and Hepburn 2006; Oxfam International 2007.
- 72** Oxfam International 2007.
- 73** This figure is based on the assumption that adaptation financing requirements in developing countries will represent around 0.1 percent of developed country GDP (the approximate level in 2005 based on World Bank methodology).
- 74** This figure would represent around 0.5 percent GDP for low income and lower-middle income countries.
- 75** SIPRI 2007.
- 76** Landau 2004.
- 77** Müller and Hepburn 2006.
- 78** Bouwer and Aerts 2006.
- 79** Oxfam International 2007.
- 80** OECD 2005b, 2006e.
- 81** Barrientos and Holmes 2006.
- 82** Government of the People's Republic of Bangladesh 2005a; UNDP 2005; Rahman et al. 2007; Mallick et al. 2005.
- 83** Government of the People's Republic of Bangladesh, mimeo.
- 84** ISDR 2007c.
- 85** ISDR and the World Bank GFDRR 2006, 2007.
- 86** Initial financial arrangements are given for 2006-2016 (ISDR and the World Bank GFDRR 2006). The mainstreaming track, projected to cost some US\$350 million is to be met through a multi-donor trust fund, of which some US\$42 million has been pledged as of August 2007. See: <http://siteresources.worldbank.org/EXTDISMGMT/Resources/GfdrDonorPledgesAugust7.pdf>

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