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CHAPTER 12

Time to Adapt?

Media Coverage of Climate Change in Nonindustrialised Countries

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Climate change demands both political and personal responses in all parts of the world, and effective decision making at both scales will depend on timely, accurate information. The quality and quantity of journalism about climate change will therefore be key in the coming years.

Much has been written in this book and elsewhere about how the media reports on climate change in industrialised countries such as the United States and United Kingdom—and how this is changing (e.g., Boykoff, 2007a; Boykoff & Roberts, 2007; Russell, 2008).

Less well understood is how journalists are covering this story in the rest of the world, both in the rapidly industrialising economies with high greenhouse gas emissions and in the poorer settings that are highly vulnerable to climate change and where adaptation will be more urgent than reducing emissions (IPCC, 2007b).

General problems facing reporters who cover climate change in such countries include a lack of training, unsupportive editors, and limited access to information and interviewees (Shanahan, 2006). In addition, limited resources mean that few journal-

ists from poorer nations can follow and report on the international negotiations aimed at addressing climate change under the UN Framework Convention on Climate Change (UNFCCC).

The negotiations are gathering pace and the decisions made will have far-reaching repercussions for people the world over. Yet of 1,500 journalists who applied to attend the UNFCCC summit in Bali in December 2007, just 9 percent were from nonindustrialised countries other than the host Indonesia (Fahn, 2008a). A much smaller percentage actually travelled to Bali and for nearly the entire UN list of 50 Least Developed Countries, there was zero media representation.

This prevents relevant information from reaching people in such nations and means that negotiators are under little public scrutiny. It also means that journalists are missing major opportunities to meet climate change experts and to learn more about the subject. Some brief anecdotes from my own work illustrate knowledge gaps that suggest many millions of vulnerable people are being misinformed.

- In July 2008 the environment correspondent for a national newspaper in Africa told me they did not know how solar power and biofuels were relevant to the environment.
- A few months earlier, I met a reporter from a national radio station in Asia who believed incorrectly that climate change caused tsunamis and bird flu.
- About the same time, a science journalist in Latin America told me he didn't think there was a broad consensus among climate scientists that human activities were largely responsible for climate change.

This chapter takes a closer look at climate change coverage in nonindustrialised countries. It reviews recent studies from Brazil, China, Honduras, India, Jamaica, Mexico, Mozambique, South Africa, Sri Lanka, Swaziland, Vietnam, and Zambia, and discusses efforts to improve climate change journalism in such settings.

To broaden the scope of this work, I asked journalists in Africa, Asia, Latin America, the Caribbean, and the Middle East what barriers they faced when reporting on climate change. The 111 journalists who replied were from 35 nations: Argentina (1); Bangladesh (1); Benin (2); Brazil (1); Chile (3); Colombia (2); Egypt (2); Ethiopia (3); Ghana (2); India (9); Jamaica (1); Jordan (1); Kenya (20); Lebanon (1); Lesotho (1); Madagascar (1); Malawi (1); Mexico (3); Morocco (1); Namibia (1); Nepal (1); Nigeria (5); Oman (1); Pakistan (2); Sao Tomé and Príncipe (1); Sierra Leone (1); South Africa (13); Sudan (1); Suriname (1); Tanzania (3); Togo (1); Uganda (13); Uruguay (1); Zambia (7); Zimbabwe (3).

All reported on climate change (with varying frequency) but only 35 (31 percent) had received any formal training about the subject, usually in the form of short workshops. Beyond the lack of training, the main problems they reported were:

- A lack of local research and news and of local experts who are prepared to talk to journalists (35 percent);

- Difficulties accessing information and understanding the subject (35 percent);
- Difficulty persuading editors that climate change stories matter (29 percent);
- Insufficient resources for travel to remote areas or to relevant conferences (21 percent).

These findings tally with those reported by Jia (2008), who described a survey of 155 journalists in China (see below). He concluded that: "Climate change reporting is on the rise in China, but many barriers remain, including information sources, the availability of experts and relevant officials, the difficulty in understanding science behind climate change, the trouble in finding human interest stories, and the [struggle] to communicate with editors. Meanwhile, journalists' knowledge and skills in reporting climate change-related issues are to be improved." (Wu analyses in the following chapter how the Chinese media cover climate change.)

Country Studies

Brazil

Fioravanti (2007) reported a fourfold increase in climate change coverage in the *Folha de São Paulo* newspaper between the second half of 2006 and the first half of 2007. He added that Brazilian newspapers depend heavily on material from international news agencies and that the dominant voices are those of foreign rather than local scientists. Comments from groups other than scientists were virtually absent.

More recently, the British Embassy in Brazil funded a review of climate change coverage in 50 Brazilian newspapers (44 regional, 6 national) from July 2005 to June 2007 (ANDI, 2008). It found that coverage had increased markedly since late 2006. The rise in reporting followed the release of the *Stern Review on the Economics of Climate Change* (2006), Al Gore's film *An Inconvenient Truth* (Guggenheim, 2006), and the reports published in 2007 by the Intergovernmental Panel on Climate Change (IPCC, 2007a, 2007b, 2007c).

According to the study, climate change is reported most often as an environmental story (35.8 percent) or from an economic-impact angle (19.7 percent) (ANDI, 2008). Media reports focused more on mitigation (41.7 percent) than on adaptation (2.7 percent). Fewer than 15 percent of articles related climate change to broader development issues and just 2 percent highlighted impacts of climate change on low-income populations. Less than one-quarter (24 percent) of articles reported on government policies relating to climate change.

Fioravanti (2007) pointed out that while press coverage has increased greatly, the reach of this medium is very limited compared to that of television. *Folha de São Paulo* is the main newspaper in Brazil and has a readership of just 300,000, while the main evening news programme on TV Globo reaches 31 million viewers. TV Globo was

the only one of the television stations in the countries studied by Painter (2007) to report on both the "impacts" and "mitigation and adaptation" reports that the IPCC published in April and May 2007, respectively (IPCC, 2007a, 2007b).

China

Tolan (2007) reported that 90 percent of climate change coverage published online in China recently (especially in 2006) was "recycled" from Western media or scientific reports without any local comment. These reports had a heavy focus on climate change impacts in remote areas, such as on polar bears in the Arctic, rather than on people in China. The remaining 10 percent of articles were more relevant, describing impacts such as melting glaciers in Tibet or risks to the port of Shanghai from a rise in sea level.

Until November 2006 the media made little connection between China's large, growing emissions and climate change problems. Only rarely did the media mention local research on, or official concern about, the issue. Coverage rose sharply in 2007, including more reports on impacts in China and the country's need to cut emissions. Tolan (2007) says this suggests that a national policy shift followed the release of influential reports by the IPCC and the Chinese Academy of Sciences, as well as extreme weather events.

Overall, however, Tolan (2007) notes that there is still little discussion of China's emissions, with the media portraying responsibility for climate change, and actions to address it, elsewhere. According to Painter's (2007) study of television coverage of the IPCC reports, China's CCTV-1 news bulletin, which has an audience of 140 million people, covered the report on impacts but not the one on mitigation and adaptation.

More recently, Jia (2008) described the findings of a nationwide survey of 155 journalists who report on climate change. They said what they needed most were regular news clues (60 percent), contact details of experts (56 percent), and information about international negotiations and mechanisms to address climate change (52 percent). The survey revealed patchy knowledge of climate science and policy. Only 14.8 percent knew that China currently has no obligation under the Kyoto Protocol to reduce its emissions. They also had little familiarity with carbon markets and the Kyoto Protocol's Clean Development Mechanism.

Journalists said their main sources of information were government departments (80 percent) and state news agencies (Xinhua 64 percent and China News Service 41 percent) (Jia, 2008). Only 13 percent used press releases from international scientific journals. Jia notes that few Chinese research institutions and journals produce press releases, and concludes that little information about climate change from the local scientific community reaches the media.

Honduras

Panos London interviewed 14 Honduran journalists, who said there was very little local or national media coverage of—or public interest in—climate change (Harbinson, 2006). Most coverage was from international sources, such as the CNN cable television channel (in Spanish). The journalists felt that national coverage was poor because media outlets did not treat climate change as a priority and reporters lacked access to information (particularly as most of it was in English and tended to reflect Western perspectives).

India

Billett (in review) analysed the content of India's English-language daily newspapers—*The Times of India*, *The Hindu*, *Hindustan Times*, and the *Indian Express*—from 1 January 2002 to 1 June 2007, and interviewed 15 of the country's leading environment journalists in 2007. In contrast to trends in the United States and United Kingdom during these years (Boykoff, 2007a), the Indian press gave no space to contrarian viewpoints, and presented climate change as a scientific reality (100 percent) caused by human activity (98 percent).

There was a heavy focus on threats such as glacial melting and disrupted monsoons, with many articles pointing to evidence of impacts (Billett, in review). Overall the dominant narrative was one of India being at risk because of historic and ongoing emissions from industrialised nations that bear the biggest responsibility for addressing the problem. Coverage was generally negative towards the Kyoto Protocol and said that efforts to include emissions cuts for nations such as India would be a bad idea, with some going as far as to say the Kyoto Protocol was intended to block India's development. Although the United States also opposes mandatory emissions cuts—and the Kyoto Protocol—the Indian press coverage of climate change was highly negative towards that country (while being somewhat positive overall towards UK, EU, Japan, China, and Brazil).

Billett (in review) points out that the English-language papers he studied are the only ones with a national circulation, and that the narrative they construct is presented as national yet masks subnational divides within India. He concludes that this "silences the question of domestic emissions" and so excludes debate about responsibilities of the elite classes that make up the majority of the readership of these newspapers (Billet, in review). Meanwhile, the popular Hindi-language TV channel—Aaj Tak—made no mention on its main evening news programme of the reports the IPCC published in April and May 2007 on climate change impacts, mitigation, and adaptation (Painter, 2007).

Jamaica

Panos London interviewed 11 Jamaican journalists, who rated the level of coverage of climate change issues in local and national print and broadcast media as low,

and noted that there were no newspaper columns or radio or TV programmes with a focus on the environment (Harbinson, 2006). Climate change coverage tended to be from international news agencies, or linked to hurricanes. Journalists felt that the problem was a lack of quantity rather than quality, and that media outlets were not interested in investing in covering climate change. They added that they lacked access to quality information (the Internet and government agencies were their main sources). Since Panos London conducted its research, coverage of climate change has increased in Jamaica. In 2008, for instance, the *Jamaica Observer* newspaper began publishing a weekly pullout section called Environment Watch that included in-depth coverage of climate change.

Mexico

Canales (2007) reported that climate change coverage has increased steadily in Mexico's *Reforma* and *El Universal* newspapers since 2005. She noted that in 2005 the media was accurately reporting scientific uncertainty about links between climate change and the intensity and frequency of hurricanes, but that by 2007, the media had switched to reporting a definitive link, contrary to the scientific evidence (Canales, 2007). Painter (2007) reported that the evening news bulletin on Mexico's most viewed TV channel—Televisa—did not report on either of the IPCC reports published in February and April 2007. It is noteworthy that the latter report was released on Good Friday, a major public holiday in Catholic nations such as Mexico. By contrast, the TV Globo channel in Brazil (also largely Catholic), considered the IPCC report the most important news after the Good Friday celebrations.

Mozambique

Journalists in Mozambique rarely cover climate change, according to de Salema, Salvador and Nobre (2007) of the Panos Institute Southern Africa. They concluded that the 12 journalists they interviewed had a "high level" of knowledge about climate change, although 5 had never heard about adaptation. As few editors considered climate change stories to be marketable, only 3 of the journalists had been covering the subject. Other barriers included a lack of local information sources and of funds for travelling to report from areas facing climate change.

de Salema, Salvador and Nobre (2007) also interviewed 60 rural community members, 18 small-scale farmers, and 12 environmental experts and advocates. None of these experts had provided journalists with information on climate change, in part because journalists had not asked them. Farmers and community members had various ideas about the cause of climate change, from it being a natural phenomenon of being caused by pollution and deforestation to it being a consequence of the civil war that ended in 1992, punishment from God or because "we lost our traditional values." Overall, the concept of climate change seemed "alien to most people" in the communities. Farmers had very limited ideas about adaptation strategies, but other commu-

nity members pointed to the construction of sea walls, reservoirs, and flood/cyclone-resistant housing as examples.

South Africa

Cramer (2008) studied media coverage of climate change during 2005 in three newspapers from South Africa's Western Cape region—the *Cape Times* (229 articles), the *Cape Argus* (148), and *Die Burger* (135). In the case of the *Cape Times*, this amounted to more than one mention of climate change per day. Across the three papers, "there was a surprisingly low amount of coverage of climate sceptics and, of this, hardly any gave room for the sceptics to explain their scepticism" (Cramer, 2008: p. 23). Coverage was most commonly framed in terms of environmental impacts such as rising seas, melting ice caps, and effects on wild species. The second most common frame was political (e.g., in relation to the G8 Summit). Human interest stories were very rare, accounting for less than 10 percent of the total articles and just 4 percent of those in *Die Burger*. In addition, 45 percent of all articles had no African, South African, or Western Cape context, though one-third were relevant to South Africa and one-quarter relevant to the Western Cape region. According to Painter's (2007) research, the national television station SABC-3's evening news did cover the IPCC's April 2007 report on climate change impacts, but not on its May 2007 report on mitigation and adaptation.

Sri Lanka

Panos London (Harbinson, 2006) reported that climate change coverage varied between different media outlets in Sri Lanka, with more reports in the English-language press than in local languages. The main obstacle, according to journalists Panos interviewed, was the lack of both public and media understanding of climate change, which was linked to the lack of information, particularly experts. While some environmental journalists were frequently active, most media outlets were described as giving environmental topics low priority. The main sources journalists used when covering climate change were international news agencies and science magazines, and nongovernmental organisations.

Swaziland

Panos Institute Southern Africa interviewed climate change experts, journalists, and farmers and analysed climate change coverage in the local media (Manyatsi, 2007). The journalists interviewed were said to have a fair understanding of climate change, and said they had a role to play in informing the public about it. However, only 27 percent had reported on climate change and only 28 percent said they knew about adaptation. Others incorrectly defined adaptation as including practices that minimise depletion of the ozone layer. The journalists said editors did not consider climate

change to be a priority—unless related to disasters or when significant events were taking place.

The farmers had "very limited" knowledge of climate change (Manyatsi, 2007). While community members were noting signs of a changing climate, they were less familiar with adaptation. Some said the climatic changes they had observed were acts of God or because people were not upholding traditions. They said they received information on the climate largely from the radio in the form of weather forecasts but said this was inadequate and too short-term. The local experts said the media made a "very minimal" contribution to raising the profile of climate change, reporting on the topic mainly at times such as the annual World Environment Day.

Newspaper reports tended to focus on natural disasters such as floods and droughts, with little detail about their possible links to climate change (Manyatsi, 2007). Coverage increased from 2004 to 2007, with more articles addressing climate change directly. Manyatsi suggests this is due in part to a media training run by the Swaziland Environment Authority and articles written by the Renewable Energy Association of Swaziland.

Vietnam

Research by the Institute of Health, Environment and Development in Vietnam showed that coverage of climate change was exceptionally low in 2006 but showed signs of an increase in 2007 (Pham, 2007). Of 172 reports on environmental topics produced by 30 media outlets in September and October 2006, not one covered climate change. For the same months in 2007, the institute analysed content in five newspapers, on Voice of Vietnam radio, and on Hanoi TV's Urban Issues programme. The newspapers covered climate change 2–3 times a month (in total 24 of 653 environment stories). Only 3 of the 79 radio reports were directly related to climate change, while none of the 11 environment stories on Urban Issues was. The climate change coverage was largely reporting of international news or of what national leaders had said about the issue. According to the study, there was no investigative reporting and no mention of vulnerability or adaptation. The reports did not relate climate change to local settings or the everyday lives of Vietnamese people and they explained the science poorly.

Zambia

Panos Institute Southern Africa analysed three newspapers, a weekly TV programme on agriculture, and a radio show on environment (Maseko & Mayembe, 2007). They found that journalists were ill informed about climate change, and adaptation in particular, and that there was little community awareness of these subjects. The country's journalism schools did not include climate change in their curricula. Climate change coverage focused on effects not causes (e.g., reports on floods or droughts after they have happened) and provided little context. Journalists said that climate change was a hard topic to sell to editors. Most (90 percent) of the articles on

climate change in *The Post, Times of Zambia,* and *Zambia Daily Mail* were from international news agencies such as Reuters and AP. Very few articles covered impacts on people or on ways they can adapt to changes, yet 90 percent of community members interviewed said they wanted more information in local languages on these topics.

Common Trends

Readers should note that although the studies cited here are the latest of their kind, some of the older findings are already somewhat dated. There has been a massive increase in media attention to climate change worldwide recently, thanks in part to the release of the *Stern Review* in 2006, *An Inconvenient Truth,* also in 2006, and the 2007 IPCC reports, as well as extreme weather events such as Cyclone Nargis, which devastated Myanmar.

A cursory search of online media reports from nonindustrialised countries in the second half of 2008 suggests that climate change is indeed rising up the media agenda. Increasingly, reports are focusing on local issues and articulating strong opinions. Polls suggest that public awareness of climate change is rising fast in these regions (BBC World Service, 2007). Nonetheless, the evidence suggests that in many countries the media is lagging in its ability to tell one of the biggest stories of our times.

The general picture painted by the most recent research is that while coverage of climate change in nonindustrialised countries is increasing, the quantity and quality of reporting do not match the scale of the problem. The studies reveal a reliance on reports from Western news agencies rather than more locally relevant news (although Indian newspapers in particular did include a strong focus on local impacts). This, coupled with sparse coverage of adaptation, has implications for the world's poor, who urgently need information to prepare for the impacts of climate change.

The research by the Panos Institute Southern Africa in some of the world's least developed countries (Mozambique, Swaziland, and Zambia) shows that vulnerable communities are receiving very little information about climate change and adaptation in particular—despite high demand from communities. As Ugandan journalist Patrick Luganda (2007) notes: "Ordinary people have begun observing the dramatic shift in the continent's climate—but they do not know what to do about it."

This deficit is not confined to the poorest of nations. In Painter's (2007) study of TV coverage of the IPCC reports in Brazil, China, India, Mexico, and South Africa there were: "Few if any positive illustrations of the poor in developing countries due involved in mitigation or adaptation strategies." Stations in China, India, Mexico, and South Africa did not cover the publication of the IPCC report on mitigation and adaptation.

Other common trends emerged from these studies and the survey of journalists. Reporters lack resources, skills, and access to information and expertise. Editors tend to give climate change a low priority and journalism tends to be event driven, rather

than investigative. Media reports tend to frame climate change as an environmental, rather than a social or political, story.

The lack of resources and editorial support for climate change reporting means that journalists struggle to attend meetings or travel to rural areas where people are facing climate risks or adapting to change already. This contributes to the lack of locally relevant reporting and serves to distance climate change from people's everyday lives.

The existing studies vary greatly in scale and scope—from short interviews with journalists to a detailed content analysis of years of newspaper reporting (Billett, in review). Most of the research to date has been by English speakers and has focused on newspapers. While this gives an indication of what information reaches urban and/or English-reading populations, there has been little study of how much reaches rural or nonliterate people who depend more on radio and television, and on information in local languages.

Plugging the Gaps

In 2008, the executive-secretary of the UNFCCC and the chair of the IPCC independently called for improved media coverage of climate change (Xinhua News Agency, 2008; OneWorld, 2008). Nowhere is this need greater than in the nonindustrialised countries. There is some consensus among journalists, climate experts, and media support organisations about this gap and how to go about plugging it. The main approaches suggested are: training; resources for travel; creating connections between journalists and sources; improving the supply of information to the media; and boosting editorial support for climate change reporting.

Donor agencies are increasingly supporting efforts to train journalists in nonindustrialised countries to get to grips with the scientific and political complexities of climate change, and to improve their ability to pitch stories to editors (Fahn, 2008b; Rowling, 2008). Organisations implementing this work include the Thomson Reuters Foundation, InfoSud (and its Media21 Global Journalism Network), Internews (and its Earth Journalism Network), the Panos Network, SciDev.Net, the BBC World Service Trust, and the Climate Change Media Partnership (see below). Various approaches exist—from workshops to online training courses (e.g., Reuters AlertNet, 2008)—and there is much scope for greater coordination and sharing of best practices.

Equally, the sources that journalists in such nations rely on are often unfamiliar with how the media works—and how to engage with journalists. Media training for this group, which includes researchers, NGO workers, government officials, and community representatives, would help to close the information divide.

Networks and events that bring journalists and their sources together could help to achieve this by strengthening links between the two groups. The Network of Climate Journalists in the Greater Horn of Africa was set up in 2002 to do this. It

holds meetings to bring together journalists and climate scientists from Burundi, Djibouti, Ethiopia, Eritrea, Kenya, Rwanda, Somalia, Sudan, Tanzania, and Uganda. In 2008, it created an online social network (www.necjogha.org) to create more opportunities for its members to share information more broadly.

In 2008, the All India Disaster Mitigation Institute announced plans to create a civil society and media network on climate and disaster risk in Bangladesh, India, Pakistan, Sri Lanka, Maldives, Malaysia, and Singapore (AIDMI, 2008). Similarly, the Climate Change Adaptation in Africa programme, a partnership between Canada's International Development Research Centre (IDRC) and the United Kingdom's Department for International Development, plans to bring African researchers and journalists together for joint training to increase flows of information about adaptation to climate change (Saunders, 2008).

In various countries, journalists who report on climate change are coming together to share information and experiences. The Climate Change Journalist Club in China produces newsletters that reach more than 1,000 journalists nationwide. It has a dedicated Web site (www.climatereporting.cn) and has published a short book to help journalists with their reporting of climate change (Climate Change Journalist Club, 2008). Similarly, the Association of Caribbean Media Workers is working with regional NGOs to develop a Caribbean Journalist's Handbook on Climate Change (Caribbean Media Network, 2008).

Other forms of information that would help journalists to report on climate change include: databases of experts willing to speak to the media; glossaries that explain the complex jargon; and fact sheets and media briefings on emerging topics. In each case, the translation of information into local languages will be key to ensuring that climate change news does not only reach urban elites.

Freely available photograph and film clips would help journalists to overcome problems of illiteracy and the vast number of local languages in which people need information. Gunawardene (2008) argues that films and television programmes about climate change should be made copyright-free after their initial broadcast to maximise their reach and promote secondary uses, such as in schools and training centres.

Another gap to fill is journalist attendance at the UN climate change negotiations. In 2007, Panos, Internews, and my organisation, the International Institute for Environment and Development, created the Climate Change Media Partnership (CCMP) to help address this. The CCMP funded nearly 40 journalists from Africa, Asia, Latin America, and the Caribbean to attend the UNFCCC negotiations in Bali, Indonesia. Many of these journalists were the only reporters from their nations (e.g., Jamaica, Kenya, Laos, Myanmar, the Philippines, and Uganda) at the summit.

The CCMP provided daily briefings on the negotiations and a matchmaking service that linked journalists with negotiators, scientists, and activists to interview. The CCMP also published a roster of experts who were at the summit and happy to talk to journalists, and organised a day-long Media Clinic where 18 experts provided information and took questions on topics such as biofuels, avoided deforestation, and adap-

tation. The journalists produced more than 600 reports during the summit, including many that quoted their national negotiators. This meant that millions of people in their home countries received locally relevant information about what was going on in Bali, instead of having to rely on reports from Western news agencies.

For many journalists trying to cover climate change, the greatest barrier they face is in their own newsroom, where editors tend to consider the topic a lower priority than issues such as politics and crime. Building editorial support for climate change reporting is therefore critical. Ways of doing this include convening meetings between senior editors and climate experts (see Luis, 2008) or creating awards for media outlets that provide quality coverage of the topic. Jia (2008) suggests that media outlets form climate change "task forces" that bring together political, business, science, and environment reporters to work together for in-depth reports on climate change.

Such steps could help to shift climate change coverage from environmental stories to the more marketable political, economic, and human interest stories that currently are less often told. This sort of shift could help to attract the advertising revenue that is needed to sustain many media operations. For as the following examples show, many promising ways of improving climate change coverage, which could be replicated elsewhere, risk faltering without financial support.

■ In Nigeria, the African Radio Drama Association is using funding from international donors to make climate change issues locally relevant and understandable to a rural radio audience of 200,000. In October 2008, it began broadcasting a 26-part drama serial that includes practical information about ways people can adapt to climate change (Saunders, 2008). After each episode, listeners can join a call-in discussion programme and put their questions to a local expert.

■ In Bangladesh, one of the countries most at risk from climate change because of its low altitude, the *New Age* newspaper is taking a lead. It has published two major climate change supplements recently, which included detailed coverage of topics such as vulnerability, adaptation, and the ongoing climate change negotiations (*New Age*, 2007, 2008). Journalists there are now planning a twice monthly page devoted to climate change issues, with material translated into the local Bangla language, but a lack of funding is a barrier.

■ In Cambodia, the first television show to bring information about climate change to rural people risks being cancelled because it is not profitable (Romero, 2008). The show was set up with funding from the UN Development Programme and the International Monetary Fund and has three paying advertisers but still needs more money to cover its US$10,000 per month production costs.

As the United Nations Development Programme's 2007 Human Development Report (UNDP, 2007: p 67) on climate change states: "The media have a critical role to play in informing and changing public opinion. Apart from their role in scrutinis-

ing government actions and holding policymakers to account, the media are the main source of information for the general public on climate change science."

It is a great irony that the countries, communities, and citizens that have contributed least to climate change will suffer most from its impacts. It is in these settings that the media is least prepared for the challenge. For people there, for the media they rely on for information, and for the sources of funding and news on which they in turn depend, it is time to adapt.

Bibliography

Adam, D. (2007, 27 January). US answer to global warming: Smoke and giant space mirrors. *The Guardian*.

Adam, D. (2008, 28 May). Exxon to cut funding to climate change denial groups. *The Guardian*. www.guardian. Co.uk/environment/2008/may/28/climatechange.fossilfuels (accessed 30 May 2008).

Ader, C. R. (1995). A longitudinal study of agenda setting for the issue of environmental pollution. *Journalism and Mass Communication Quarterly*, 72(2), 300–311.

Age, The. (2006). Murdoch u-turn on climate. www.Theage.Com. Au/news/world/murdoch-uturn-on-climate/2006/11/07/1162661648576. html (accessed 8 July 2008).

AIDMI. (2008). Asian media and civil society unite to influence global climate policy. *Thomson Reuters AlertNet*. www. Alertnet.org/thenews/fromthefield/219824/121612533327.htm (accessed 18 July 2008).

Allan, S. (2002). *Media, risk and science*. Buckingham: Open University Press.

Allan, S., Adam, B., & Carter, C. (eds.). (2000). *Environmental risks and the media*. London: Routledge.

Althusser, L. (1971/2001). *Lenin and philosophy and other essays*. New York: Monthly Review Press.

Anders, G. (2008, 14 May). Carbon-Market concept moves mainstream. *The Wall Street Journal*, p. B2.

ANDI. (2008). *Climate change in the Brazilian press: An analysis of 50 newspapers from July 2005 to June 2007*. www., &i.org. Br/_pdfs/MudancasClimaticas.pdf (accessed 8 August 2008).

Anderson, A. (1997). *Media, culture and the environment*. London: Routledge.

Anderson, B. (1991). *Imagined communities: Reflections on the origin and spread of nationalism.* London: Verso.

Anderson, R. B., Atwater, T., & Salwen, M. B. (1985). Media agenda-setting with environmental issues. *Journalism Quarterly, 62*(2), 393–397.

Andreadis, E., & Smith, J. (2007). Beyond the ozone layer. *British Journalism Review, 18*(1), 50–56.

Anon. (1969), Smoking and health proposal. p. 4. Bates no.: 690010951–690010959. http://tinyurl.com/5k4ha2 (accessed 27 April 2009).

Antilla, L. (2005). Climate of scepticism: US newspaper coverage of the science of climate change. *Global Environmental Change, 15*(4), 338–352.

Arias-Maldonaldo, M. (2007). An imaginary solution? The green defence of deliberative democracy. *Environmental Values, 16*(2), 233–252.

Arnheim, R. (1969). *Film as art.* London: Faber & Faber.

Australian, The. (2007a, 6 March). End of the beginning for Labor and Rudd. p. 13.

Australian, The. (2007b, 7 March). Nuclear reaction. p. 15.

Avian/Communication Tower Collisions. (2004, 30 September). Prepared for Federal Communications Commission by Avatar Environmental, Llc, West Chester, PA.

Baker, C. (1994). *Advertising and a democratic press.* Princeton: Princeton University Press.

Balibar, E. (1991). The nation form: History and ideology. In E. Balibar & I. Wallerstein (Eds.), *Race, nation, class: Ambiguous identities.* London: Verso.

Ball-Rokeach, S., & DeFleur, M. (1976). A dependency model of mass media effects. *Communication Research, 3,* 10–21.

Barnett, J. (2007). The geopolitics of climate change. *Geography Compass, 1*(6), 1361–1375.

Baron, J. (2006). Thinking about global warming. *Climatic Change, 77,* 137–150.

Barringer, F. (2007, 19 January). A coalition for firm limit on emissions. *The New York Times,* p. C1.

Barron, P. (2007). How green should we be? The editors. *BBC News website.* www. Bbc. Co.uk/blogs/theeditors/2007/02/how_green_should_we_be. Html (accessed 10 October 2008).

Barry, J. (2006). Resistance is fertile: From environmental to sustainability citizenship. In A. Dobson & D. Bell (Eds.), *Environmental citizenship.* Cambridge, MA: MIT Press.

Basel Action Network. (2006). *JPEPA as a step in Japan's greater plan to liberalize hazardous waste trade in Asia.* www.ban.org/library/JPEPA_Report.pdf (accessed 12 November 2008).

Basel Action Network and Silicon Valley Toxics Coalition. (2002, February 25). *Exporting harm: The high-tech trashing of Asia.* Seattle, Washington: BAN.

Baudelaire, C. (1972). *Les Fleurs du Mal.* Paris: Gallimard.

Bauman, Z. (2001). *The individualized society.* Cambridge: Polity Press.

BBC. (2005). Editorial guidelines: The BBC's values and standards. www. Bbc. Co.uk/guidelines/editorialguidelines/edguide/ (accessed 24 August 2008).

BBC. (2005). The way ahead: Five thinkers' views. BBC Online. http://tinyurl. Com/67boll.

BBC Trust. (2007). From seesaw to wagon wheel: Safeguarding impartiality in the 21st century. www. Bbc. Co.uk/bbctrust/research/impartiality. Html (accessed 24 August 2008).

BBC Trust. (2008). Service Review. www. Bbc. Co.uk/bbctrust/index. Html.

BBC World Service. (2007). All countries need to take major steps on climate change: Global poll, news. Bbc. Co.uk/2/shared/bsp/hi/pdfs/25_09_07climatepoll. Pdf (accessed 28 September 2008).

Beck, U. (1992). *Risk society. Towards a New Modernity.* London: Sage.

Beck, U. (1995). *Ecological politics in an age of risk.* Cambridge: Polity Press.

Beck, U. (1996). *The reinvention of politics: Rethinking modernity in the global social order.* Cambridge: Polity Press.

Beck, U. (1999). *World risk society,* Cambridge: Polity Press.

Beck, U. (2001). Losing the traditional: Individualization and precarious freedom. In U. Beck & E. Beck-Gernsheim (Eds.), *Individualization: Institutionalized individualism and its social and political consequences.* London: Sage.

Beck, U. (2006). *Cosmopolitan vision.* Cambridge: Polity Press.

Beck, U., Beck-Gernsheim, E. (Eds.). (2001). *Individualization: Institutionalized Individualism and its social and political consequences.* London: Sage.

Beckford, M. (2007, 9 September). BBC drops Planet Relief plan to save world. *Daily Telegraph* (accessed 20 March 2008).

Beder, S. (2002). *Global spin: The corporate assault on environmentalism.* Foxhole: Green Books.

Bell, A. (1994). Media (mis)communication on the science of climate change. *Public Understanding of Science, 3*(3), 259–275.

Benjamin, W. (1985). Central Park (Lloyd Spencer with Mark Harrington, Trans.). *New German Critique, 34,* 32–58.

Bennett, P. (1999). Understanding responses to risk: Some basic findings. In P. Bennett & K. Calman (Eds.), *Risk communication and public health.* Oxford: Oxford University Press.

Bennett, W. L. (1996). An introduction to journalism norms and representations of politics. *Political Communication, 13,* 373–384.

Bennett, W. L. (2003). Communicating global activism: Strengths and vulnerability of networked politics. *Information, Communication & Society, 6*(2), 143–168.

Berglez, P. (2008).What is global journalism? Theoretical and empirical conceptualisations. *Journalism Studies, 9*(6), 845–858.

Bernstein, L., Bosch, P., Canziani, O., Chen, Z., Christ, R., Davidson, O., et al. (2007). *Climate change 2007: Synthesis report.* Geneva: Intergovernmental Panel on Climate Change (IPCC).

Billett, S. (in review). Dividing climate change: How do postcolonial political geographies permeate the Indian national press's portrayal of climate change. *Climatic Change.*

Billig, M. (1991). *Ideology, rhetoric and opinions.* London: Sage.

Billig, M. (1995). *Banal nationalism.* London: Sage.

Billig, M., Condor, S., Edwards, D., Gane, M., Middleton, D., & Radley, A. (1988). *Ideological dilemmas: A social psychology of everyday thinking.* London: Sage.

Black, L. (2006). "Making Britain a gayer and more cultivated country": Wilson, Lee and the creative industries in the 1960s. *Contemporary British History, 20*(3), 323–342.

Blair, G. A. (1926). The development of the motion picture raw film industry. *Annals of the American Academy of Political and Social Science, 128,* 50–53.

Bord, R. J., Fisher, A., & O'Conner, R. E. (1998). Public perceptions of global warming: United States and international perspectives. *Climate Research, 11,* 75–84.

Bord, R., O'Connor, R., & Fischer, A. (2000). In what sense does the public need to understand global climate change? *Public Understanding of Science, 9*(3), 205–218.

Bowser, E. (1990). *History of the American cinema.* Vol. 2: *The transformation of cinema, 1907–1915.* New York: Charles Scribner's Sons.

Boyce, T. (2007). *Health, risk and news: The MMR vaccine and the media.* New York: Peter Lang.

Boykoff, M. T. (2007a). Flogging a dead norm? Newspaper coverage of anthropogenic climate change in the United States and United Kingdom from 2003 to 2006. *Area, 39*(2), 470–481.

Boykoff, M. T. (2007b). From convergence to contention: United States mass media representations of anthropogenic climate change science. *Transactions of the Institute of British Geographers, 32,* 477–489.

Boykoff, M. (2008a). Lost in translation? United States television news coverage of anthropogenic climate change, 1995–2004. *Climatic Change, 1–2,* 1–17.

Boykoff, M. T. (2008b). The cultural politics of climate change discourse in the UK tabloids. *Political Geography, 27*(5), 549–569.

Boykoff, M. T. (2008c). The real swindle. *Nature Reports: Climate Change, 2,* 31–32. www. Nature. Com/climate/2008/0803/full/climate.2008.14. Html (accessed 20 August 2008).

Boykoff, M. T., & Boykoff, J. (2004). Balance as bias: Global warming and the US prestige press. *Global Environmental Change, 14,* 125–136.

Boykoff, M. T., & Boykoff, J. (2007). Climate change and journalistic norms: A case study of US mass-media coverage. *Geoforum, 38*(6), 1190–1204.

Boykoff, M. T., & Mansfield, M. (2008). "Ye olde hot aire": Reporting on human contributions to climate change in the UK tabloid press. *Environmental Research Letters.* www. Iop.org/EJ/article/1748–9326/3/2/024002/erl8_2_024002. Pdf?request-id=c0ac938d-d7fd-45c4-9011-e7cd68c9f115 (accessed 30 July 2008).

Boykoff, M. T., & Rajan, S. R. (2007). Signals and noise: Mass media coverage of climate change in the USA and the UK. *European Molecular Biology Organisation Reports, 8*(3), 207–211.

Boykoff, M. T., & Roberts, J. T. (2007). Media coverage of climate change: Current trends, strengths, weaknesses. Human Development Report Background Paper 2007/8. *UN Development Programme.* hdr.undp.org/en/reports/global/hdr2007–2008/papers/boykoff,%20maxwell%20and%20roberts,%20j.%20timmons. Pdf (accessed 10 July 2008).

Braudel, F. (1973). *Capitalism and material Life, 1400–1800* (Miriam Kochan, Trans.). New York: Harper Colophon Books.

Brenner, E. (2003, 16 March). It's getting easier to be green. *The New York Times,* section 14, p. 1.

Brigden, K., Santillo, D., & Johnston, P. (2008). *Playing dirty: Analysis of hazardous chemicals and materials in games console components.* Amsterdam: Greenpeace.

Broad, W. J. (2007, 31 July). NASA forced to steer clear of junk in cluttered space. *New York Times,* p. F4.

Brody, S. (1988). Television: A new weapon for the new imperialist war. *Jump Cut, 33,* 105–106.

Brossard, D., Shanahan, J., & McComas, K. (2004). Are issue-cycles culturally constructed? A comparison of French and American coverage of global climate change. *Mass Communication and Society, 7*(3), 359–377.

Brown, C. (2006, 26 October). Blair condemned for "toothless approach" to climate legislation. *The Independent,* p. 2.

Bucchi, M. (1998). *Science and the media: Alternative routes in scientific communication.* London: Routledge.

Buckman, R. (2008, 10 June). Sun's Gage to join Kleiner Perkins. *The Wall Street Journal,* p. B9.

Burgess, J., & Carvalho, A. (2005). Cultural circuits of climate change in UK broadsheet newspapers, 1985–2003. *Risk Analysis, 25*(6), 1457–1469.

Burke, D. (2004). GM food and crops: What went wrong in the UK? *EMBO Reports, 5*(5), 432–436.

Burke, J. G. (1979). Wood pulp, water pollution, and advertising. *Technology and Culture, 20*(1), 175–195.

Buzek, A. (1964). *How the communist press works.* London and Dunmow: Pall Mall Press.

Cammaerts, B. (2007). Media and communication strategies of glocalized activists: Beyond media-centric thinking. In B. Cammaerts & N. Carpentier (Eds.), *Reclaiming the media: Communication rights and democratic media roles.* Bristol: Intellect Books.

Camp for Climate Action. www.Climatecamp.org.uk/ (accessed 19 July 2008).

Canales, C. (2007). www.eci.ox. Ac.uk/news/events/070727-carbonundrum/canales. Pdf (accessed 9 July 2008).

Cantrill, J. (1992).Understanding environmental advocacy: Inter-disciplinary research and the role of cognition. *Journal of Environmental Education, 24*(1), 35–42.

Cappella, J., & Jamieson, K. (1997). *The spiral of cynicism.* Oxford: Oxford University Press.

Caribbean Media Network. (2008). *Climate change handbook for journalists coming.* www.Caribbean-media. Net/articles/article359. Html (accessed 19 March 2008).

Carvalho, A. (2005). Representing the politics of the greenhouse effect: Discursive strategies in the British media. *Critical Discourse Studies, 2*(1), 1–29.

Carvalho, A. (2007). Ideological cultures and media discourses on scientific knowledge: Re-reading news on climate change. *Public Understanding of Science, 16*(2), 223–243.

Carvalho, A., & Burgess, J., (2005). Cultural circuits of climate change in UK broadsheet newspapers, 1985–2003. *Risk Analysis, 25*(6), 1457–1469.

Cattaneo, P. (Director). (1997). *The full monty* [Motion picture]. UK: Twentieth Century-Fox Film Corporation.

Central Office of Information. (2008). *Attitudes to climate change—Wave 7: Topline summary* www. defra.gov.uk/environment/climatechange/uk/individual/attitudes/pdf/ccresearch-toplines7-0803. Pdf (accessed 19 August 2008).

Chalaby, J. K. (2004). Scandal and the rise of investigative reporting in France. *American Behavioural Scientist, 47*(9), 1194–1207.

Chameides, W. L., & Bergin, M. (2002). Soot takes centre stage. *Science, 297*(5590), 2214–2215.

Chason, G. (2008, 24 July). Cold comfort: Arctic is oil hot spot—Hard-to-reach energy reserves limit potential. *The Wall Street Journal,* p. A9.

Cheng, E. (2007, 14 July). Forecast grim for insurance companies, local bodies. *New Zealand Herald.*

Chibnall, S. (1977). *Law and order news: An analysis of crime reporting in the British press.* London: Routledge.

Clark, A. (2008, 19 May). Exxon facing shareholder revolt over approach to climate change. *The Guardian.* www.guardian.Co.uk/business/2008/may/19/exxonmobil.oil (accessed 20 May 2008).

Clarkson, J. (2007, 19 May). John Prescott. *The Sun.*

Climate Change Journalist Club. (2008). Reporting climate change: Knowledge, vision and approaches. Beijing. www.Climatereporting. Cn/sub. Aspx?id=915 (accessed 19 May 2008).

Cohen, B. C. (1963). *The press and foreign policy.* New Jersey: Princeton University Press.

Coleman, C. (1997). Science, technology and risk coverage of a community conflict. In D. Berkowitz (Ed.), *Social Meanings of News* (483–496). Thousand Oaks, CA: Sage.

Connor, S. (2007, 8 May). C4 accused of falsifying data in documenrary on climate change. *Independent.* www.Independenr.Co.uk/news/media/c4-accused-of-falsifying-data-in-docu-mentary-on-climate-change-447927. Html (accessed 20 July 2008).

Cook, G., Robbins, P. T., & Pieri, E. (2006). Words of mass desrruction: British newspaper coverage of the genetically modified food debate, expert and non-expert reactions. *Public Understanding of Science, 15,* 5–29.

Corbett, C. J., & Turco, R. P. (2006, November). *Sustainability in the motion picture industry.* Integrated Waste Management Board of the State of California. personal., &erson.ucla.edu/charles.Corbetr/papers/mpis_report. Pdf (accessed 7 July 2008).

Corbett, J. B., & Durfee, J. L. (2004). Testing public (un)certainty of science media representations of global warming. *Science Communication, 26*(2), 129–151.

Corbett, J. B., & Durfee, J. L. (2005). Context and controversy: Global warming coverage. *Nieman Reports, 59*(4), 88–89.

Corbin, A. (1986). *The foul and the fragrant: Order and the French social imagination.* Cambridge, MA: Harvard University Press.

Corfee-Morlot, J., Maslin, M., & Burgess, J. (2007). Global warming in the public sphere. *Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 365,* 2741–2776.

Cornelissen, G., Pandelaere, M., Dewitte, S., & Warlop, L. (2008). Positive cueing: Promoting sustainable consumer behavior by cueing common environmental behaviors as environmental. *International Journal of Research in Marketing, 25,* 46–55.

Cortese, A. (2002, 18 August). Business: As the earth warms, will companies pay? *The New York Times,* section 3, p. 6.

Cottle, S. (1998). Ulrich Beck, tisk Society and the media: A Catastrophic View? *European Journal of Communication, 13*(1), 5–32.

Cottle, S. (2000). TV news, lay voices and the visualisation of environmental risks. In S. Allan, B. Adam, & C. Carter (Eds.), *Environmental risks and the media.* London: Routledge.

Cottle, S. (2006). *Mediatized conflict.* Maidenhead: Open University Press.

Cox, S. (2007, 31 July). Are your cell phone and laptop bad for your health? *AlterNet.* www.Alternet.org/healthwellness/58354/?page=1 (accessed 4 August 2008).

Cramer, C. (2008). *The framing of climate change in three daily newspapers in the Western Cape Province of South Africa.* Master of Philosophy (Journalism). Stellenbosch University, South Africa.

Crosby, J. (2007, 29 June). The mania over Apple's latest product could translate into an avalanche of electronic waste. *Star Tribune,* p. 1D.

Curry, P. (2006). *Ecological ethics: An introduction.* Cambridge: Polity Press.

Curwen, L. (2007, 26 April). Science climate conflict warms up. BBC Online news. Bbc. Co.uk/1/hi/business/6595369.Stm (accessed 20 March 2008).

Dayton, L. (2006, 7 January). Kyoto recalcitrants unite. *Weekend Australian,* p. 20.

Deacon, D., Pickering, M., Golding, P., & Murdock, G. (1999). *Researching communications.* New York: Hodder Arnold.

Dean, H. (2001). Green citizenship. *Social Policy & Administration, 35*(5), 490–505.

Deardorff, J. (2003; 12 January). Big business to buy, sell greenhouse gas credits. *Chicago Tribune,* p. 1.

De Burgh, H. (2003). *The Chinese journalist: Mediating information in the world's most populous country.* London: Routledge.

D'Haenens, L., & De Lange, M. (2001). Framing of asylum seekers in Dutch regional newspapers. *Media, Culture & Society, 23*(6), 847–860.

DeLuca, K. M. (1999). *Image politics: The new rhetoric of environmental activism.* Mahwah, NJ: Lawrence Erlbaum.

DeLuca, K. M., & Peeples, J. (2002). From public sphere to public screen: Democracy, activism and the violence of Seattle. *Critical Studies in Media Communication, 19*(2), 125–151.

Demirjian, K. (2007, 8 March). Taking climate legislation to the Hill: 4 major bills battle for Congress's support. *Chicago Tribune,* p. 4.

Department of Prime Minister and Cabinet. (2006). *Uranium mining, processing and nuclear energy review: Opportunities for Australia?* Commonwealth of Australia, Barton.

Descartes, R. (1977). *Philosophical writings* (Elizabeth Anscombe and Peter Thomas Geach, Trans., & Ed.). London: Nelson's University Paperbacks.

Deutsch, C. H. (2005a, 22 November). Goldman to encourage solutions to environmental issues. *The New York Times,* p. C3.

Deutsch, C. H. (2005b, 22 November). Saving the environment, one quarterly earnings report at a time. *The New York Times,* p. C1.

Deutsch, C. H. (2006, 24 May). Wall St. develops the tools to invest in climate change. *The New York Times,* p. C3.

de Salema, E., Salvador, B.V, & Nobre, J. (2007). *Media coverage, community perspectives and policy response on climate change and climate change adaptation in Mozambique.* Panos Institute: Southern Africa.

De Vreese, C. H. (1999). *Framing Europe: Television news and European integration.* Doctoral Dissertation. The Amsterdam School of Communications Research, University of Amsterdam.

De Vreese, C. H., Peter, J., & Semetko, H. A. (2001). Framing politics at the launch of the Euro: A cross-national comparative study of frames in the news. *Political Communication, 18,* 107–122.

Di Gennaro, C. & Dutton, W. (2006). The Internet and the Public: Online and Offline Political Participation in the United Kingdom. *Parliamentary Affairs, 59*(2), 299–313.

Dinerstein, J. (2006). Technology and its discontents: On the verge of the posthuman. *American Quarterly, 58*(3), 569–595.

Dispensa, J., & Brulle, R. (2003). Media's social construction of environmental issues: Focus on global warming—A comparative study. *The International Journal of Sociology and Social Policy, 23*(10), 74–105.

Dobson, A. (2003). *Citizenship and the environment.* Oxford: Oxford University Press.

Doherty, B. (2006). Friends of the Earth International: Negotiating a transnational identity. *Environmental Politics, 15*(5), 860–880.

Douglas, M., & Wildavsky, A. (1982). *Risk and culture.* Cambridge: MIT Press.

Doulton, H. L., & Brown, K. (2009). Ten years to prevent catastrophe? Discourses of climate change and international development in the UK press. Tyndall Centre for Climate Change Research Working Paper 111. www.tyndall.ac.uk/publications/working_papers/twp111.pdf (accessed 14 July 2008).

Downing, P., & Ballantyne, J. (2007). *Tipping point or turning point? Social marketing and climate change.* London: IPSOS-MORI Social Research Institute.

Doyle, J. (2007). Picturing the clima(c)tic: Greenpeace and the representational politics of climate change. *Science as Culture, 16*(2), 129–150.

Doyle, T., & McEachern, D. (2008). *Environment and politics.* London: Routledge.

Durkin, M. (Director). (2007). *The great global warming swindle* [television documentary]. UK: Channel Four.

Durning, A. (1991). Asking how much is enough. In Lester Brown (Ed), *State of the World.* New York: Norton.

Eaton, L., & Gold, R. (2008, 24 May). Rockefeller rebellion turns up heat on Exxon—John D.'s heirs seek change—and respect. *The Wall Street Journal,* p. A1.

Edwards, P. N., & Schneider, S. H. (2001). Self-Governance and peer review in science-for-policy: The case of the IPCC second assessment report. In C. A. Miller & P. N. Edwards (Eds.), *Changing the atmosphere: Expert knowledge and environmental governance.* London: MIT Press.

Edwards, T. (2000). *Contradictions of consumption.* Buckingham: Open University Press.

Ekström, M., Nohrstedt, S. A. (1996). *Journalistikens etiska problem* (The ethical problems of journalism). Stockholm: Rabén & Prisma/Svenska Journalistförbundet.

Elliot, L. (1998). *The global politics of the environment.* Basingstoke: Macmillan.

Ellis, J. (2007). *TV FAQ: Uncommon answers to common questions about TV.* London: IB Tauris.

Ellison, K. (2002, 25 April). The new hot trend: Climate control. *Los Angeles Times,* section 5, p. 1.

Elster, J. (1999). *Strong feelings.* Cambridge, MA: MIT Press.

Emmerich, R. (Director). (2004). *The day after tomorrow* [Motion picture]. USA: Twentieth Century-Fox Film Corporation.

Entman, R. (1989). *Democracy without Citizens: Media and the decay of American politics.* Oxford: Oxford University Press

Entman, R. (1993). Framing: Toward clarification of a fractured paradigm. *Journal of Communication, 43*(4), 51–58.

Environmental Protection Agency. (2007, April). *Fact Sheet: Management of electronic waste in the United States.* Washington, D.C.: EPA. See also: www.epa.gov/epawaste/conserve/materials/ecycling/index.htm (accessed 23 July 2008).

Ereaut, G., & Segnit, N. (2006). *Warm words: How are we telling the climate story and can we tell it better?* London: Institute for Public Policy Research. www.Ippr.org.uk/members/download.Asp?f=/ecomm/files/warm_words. Pdf&a=skip (accessed 6 June 2008).

Fahn, J. (2008a). Rescuing reporting in the global South. *Nature Climate Change Reports.* www.Nature. Com/climate/2008/0807/full/climate.2008.64. Html (accessed 1 July 2008).

Fahn, J. (2008b). Poor countries' media must tackle climate change. *SciDev.Net.* www.Scidev. Net/en/opinions/poor-countries-media-must-tackle-climate-change-1. Html (accessed 8 August 2008).

Fieschi, C. (2007). Commentary: It's a civic Christmas. *Parliamentary Affairs, 60*(4), 691–699.

Fioravanti, C. (2007, 27 June). *Climate change reporting in Brazil.* Presentation at workshop Carbonundrums: Making sense of climate change reporting around the world, University of Oxford. www.eci.ox. Ac.uk/news/events/070727-carbonundrum/fioravanti. Pdf.

Fischhoff, B. (1995). Risk perception and communication unplugged—20 years of process. *Risk Analysis, 15*(2), 137–145.

Fischhoff, B., Lichtenstein, S., & Slovic, P. (1980). Facts and fears: Understanding perceived risk. In W. Albers & R. Schwing (Eds.), *Societal risk assessment: How safe is safe enough?* New York: Plenum Press.

Flanigan, J. (2004, 10 October). Industry energized by Kyoto Pact. *Los Angeles Times,* p. C1.

Forbes, M. (2007, 28 July). PM tiptoes around drug sentences in Indonesia. *Sydney Morning Herald.*

Fowler, R. (1991). *Language in the news: Discourse and ideology in the press.* London: Routledge.

Frey, D. (2002, 8 December). How green is BP? *The New York Times,* section 6, p. 99.

Friends of the Earth International. (2008a). 'Home Page.' http://www.foei.org/ (accessed 17 April 2008).

Friends of the Earth International. 2008b. (Campaigns). http://www.foei.org/en/campaigns (accessed 17 April 2008)

Friends of the Earth International. (2008c). 'Stop Climate Change.' http://www.foei.org/en/campaigns/climate (accessed 17 April 2008)

Friends of the Earth UK. (2008). 'Is your MP supporting a strong Climate Bill for 2008?.' http://www.foe.co.uk/campaigns/climate/press_for_change/email_mp/index.html (accessed 17 April 2008)

FUTERRA Sustainability Communications Ltd. (2005).*UK communications strategy on climate change.* www.defra.gov.uk/environment/climatechange/uk/individual/pdf/ccc-strategy. Pdf (accessed 1 February 2008).

Galtung, J., & Ruge, M. (1965). The structure of foreign news: The presentation of the Congo, Cuba and Cyprus crises in four Norwegian newspapers. *Journal of International Peace Research, 1,* 64–91.

Gamson, W. A. (1992). *Talking politics.* New York: Cambridge University Press.

Gamson, W. A., & Modigliani, A. (1987). The changing culture of affirmative action. In R. G. Braungart & M. M. Braungart (Eds.), *Research in political sociology.* Greenwich: JAI Press.

Gamson, W. A., & Modigliani, A. (1989). Media discourse and public opinion on nuclear power: A constructionist approach. *American Journal of Sociology, 95*(1), 1–37.

Gartner newsroom. (2007). Gartner estimates ICT industry accounts for 2 percent of global CO2 emissions. (26 April). http://www.gartner.com/it/page.jsp?id=503867 (accessed 28 January 2009).

Gavin, N. T. (2007a). *Global warming and the British press: The emergence of an issue and its political implications.* Paper presented at the 2007 EPOP Conference, Bristol University.

Gavin, N. T. (2007b). *Press and television in British politics: Media, money and mediated democracy.* London: Palgrave/Macmillan.

Gelbspan, R. (2004). *Boiling point: How politicians, big oil and coal, journalists, and activists have fueled the climate crisis—And what we can do to avert disaster.* New York: Basic Books.

Gibson, R.K., Lusoli, W. & Ward, S. (2005). Online Participation in the UK: Testing a 'Contextualised' Model of Internet Effects. *British Journal of Politics and International Relations, 7*(4), 561–83.

Giddens, A. (1994). Living in a post-traditional society. In U. Beck, A. Giddens, & S. Lash (Eds.), *Reflexive modernization: Politics, tradition and aesthetics in the modern social order.* Cambridge: Polity Press.

Gidwani, V. K. (2006). Subaltern cosmopolitanism as politics. *Antipode, 38*(1), 7–21.

Gonzenbach, W., & Hester, J. (1997). The environment: TV news, real world cues, and public opinion over time. *Mass Communication Review, 22*(1/2), 5–20.

Gramsci, A. (2000). *The Gramsci reader: Selected writings, 1916–1935.* New York: New York University Press.

Grant-Taylor, T. (2007, 21 July). Why Gladstone plant does not mean cheap gas at our doorstep. *Courier-Mail.*

Greek, D. (2005, 24 November). Green computing: How to watch your waste. PC Magazine. www.pcmag.co.uk/computeractive/features/2146583/green-computing-waste-watchers (accessed 12 June 2008).

Greenpeace International. (2008a). 'About Greenpeace.' www.greenpeace.org/international/ (accessed 17 April 2008).

Greenpeace International. (2008b). 'Stop climate change.' www.greenpeace.org/international/campaigns/climate-change (accessed 20 July 2008).

Greenpeace International (2008c). 'Energy [R]evolution.' http://www.greenpeace.org/international/campaigns/climate-change/energyrevolution (accessed 1 July 2008)

Greenpeace UK. (2008). 'All about EfficienCity.' www.greenpeace.org.uk/efficiencity/about (accessed 14 July 2008).

Grossman, E. (2006). *High tech trash: Digital devices, hidden toxics, and human health.* Washington: Island Press.

Guggenheim, D. (2006). *An inconvenient truth.* Paramount Classics, USA.

Gunawardene, N. (2008). Planet before profit for climate change films. *SciDevNet.* www.Scidev. Net/en/opinions/planet-before-profit-for-climate-change-films. Html (accessed 4 November 2008).

Gurevitch, M., Levy, M., & Roeh, I. (1991). The global newsroom: Convergences and diversities in the globalisation of television news. In P. Dahlgren & C. Sparks (Eds.), *Communication and citizenship: Journalism and the public sphere in the news media age.* London: Routledge.

Gustafsson, E. (2008). Politikens strategier och mediernas labyrint, hur kommuniceras klimatfrågan? (Political strategies and the labyrinth of Media: How climate change is communicated). Örebro: Örebro University.

Hagens Berman Sobol Shapiro LLP. (2008). *Kivalina—Global warming.* www.Hbsslaw. Com/Kivalina (accessed 2 September 2008).

Hajer, M. (1995). *The politics of environmental discourse: Ecological modernization and the policy process.* Oxford: Clarendon Press.

Hajer, M., & Versteeg, W. (2005). A decade of discourse analysis of environmental politics. *Journal of Environmental Policy and Planning, 7*(3), 175–184. http://www. Informaworld.Com/smpp/title~content=t713433817~db=all~tab=issueslist~branches=7—v7 (accessed 10 June 2008).

Haklay, M. (2002). Public environmental information: Understanding requirements and patterns of likely public use. *Area, 34*(1), 17–28.

Hansard. (2005). *Spinning the web: Online campaigning in the 2005 general election.* London: Hansard. [Need first initial.] There is no initial—this is a government department in the UK

Hansen, A. (1991). The media and the social construction of the environment. *Media, Culture and Society, 13*(4), 443–458.

Hansen, A. (1993).Greenpeace and press coverage of environmental issues. In A. Hansen (Ed.), *The mass media and environmental issues.* Leicester: The University of Leicester Press.

Hansen, A. (2000). Claims-making and framing in British newspaper coverage of the Brent Spar controversy. In S. Allan, B. Adam, & C. Carter (Eds.), *Environmental risks and the media.* London: Routledge.

Haran, J., Kitzinger, J., McNeil, M., & O'Riordan, K. (2008). *Human cloning in the media: From science fiction to science practice.* London: Routledge.

Harbinson, R. (2006). *Whatever the weather: Media attitudes to reporting climate change.* Panos London. www.Panos.org.uk/download. Php?id=146 (accessed 3 August 2008).

Hargreaves, I., Lewis, J., & Speers, T. (2003). *Towards a better map: Science, the public and the media.* London: Economic and Social Research Council (ESRC).

Hargreaves, I., & Thomas, J. (2002). *New News, Old News.* London: ITV/BSC.

Harriss, J. (2006). Middle-Class activism and the politics of the informal working class: A perspective on class relations and civil society in Indian cities. *Critical Asian Studies, 38*(4), 445–465.

Haworth, J. (2008, 5 June). Inside climate change: Fears of climate change "fudge." *The Scotsman*, p. 10.

Hertog, J., & McLeod, M. (2003). A multiperspectival approach to framing analysis: A field guide. In S. Reese, O. Gandy, & E. Grant (Eds.), *Framing public life*. Mahwah, NJ: Lawrence Erlbaum.

Hertsgaard, M. (1990). Covering the world: Ignoring the earth, *Greenpeace, 15*, 14–18.

Hilgartner, S., & Bosk, C. L. (1988). The rise and fall of social problems: A public arenas model. *The American Journal of Sociology, 94*(1), 53–78.

Hill, A. (2007). *Restyling factual TV: The reception of news, documentary, and reality genre*. London: Routledge.

Höijer, B. (2007). (Ed.). *Ideological horizons in media and citizen discourses: Theoretical and methodological approaches*. Göteborg: Nordicom.

Höijer, B. (2008). Sociala representationer i medietexter (Social representations in media texts). In M. Ekström (Ed.), *Mediernas språk* (The language of media). Malmö: Liber.

Höijer, B., Lidskog, R., & Uggla, Y. (2006). Facing dilemmas: Sense-making and decision-making in late modernity. *Futures, 38*, 350–366.

Holdren, J. (2008, 3 July). "Global disruption" more accurately describes climate change, not "global warming"—Leading scientist John Holdren." *Democracy Now!* www.democracynow.org/2008/7/3/global_disruption_more_accurately_describes_climate (accessed 20 August 2008).

Holmes, T. (2008) "Objectivity, BBC-style," The Memory Hole, 20 January 2008; online at http://tinyurl.com/62q8ks (accessed 29 April 2009).

Holmwood, L. (2007, 26 August). BBC criticised over climate change coverage. *The Guardian*. www.guardian.Co.uk/media/organgrinder/2007/aug/26/bbccriticisedoverclimatech (accessed 7 June 2006).

Hopkin, M. (2007). Climate panel offers grounds for optimism. *Nature, 447*, 120–121.

Houghton, D. (2007, 21 July). Flegg starts thinking nuclear. *Courier-Mail*.

Howard, J. (2006a, 6 June). Review of uranium mining, processing and nuclear energy in Australia. *News Room Press Releases Prime Minister of Australia John Howard*. Commonwealth of Australia. www.Pm.gov.Au/news/media_releases/media_release1965. Html (accessed 7 June 2006).

Howard, J. (2006b, 18 July). Let's not bury our head in the sand on nuclear energy. *Australian*, p. 13.

Hughes, R. (1985, 9 September). The urban poet. *Time*.

Hulme, M. (2007). Newspaper scare headlines can be counter-productive. *Nature, 445*, 818.

Hulme, M. (2008). Geographical work at the boundaries of climate change. *Transactions of the Institute of British Geographers, 33*, 5–11.

Independent Press Association, Conservatree, and Co-op America. (2001, May). *Turning the Page: Environmental Impacts of the Magazine Industry and Recommendations for Improvement*. Washington, D.C.: The Paper Project.

IPCC. (2007a). *Climate change 2007—The physical science basis*. Contribution of Working Group I to the Fourth Assessment Report of the IPCC. Published for the Intergovernmental Panel on

Climate Change. Cambridge University Press. http://www. Ipcc. Ch/ipccreports/ar4-wg1. Htm.

IPCC. (2007b). *Climate change 2007—Impacts, adaptation and vulnerability*. Contribution of Working Group II to the Fourth Assessment Report of the IPCC. Published for the Intergovernmental Panel on Climate Change. Cambridge University Press. http://www. Ipcc. Ch/ipccreports/ar4-wg2. Htm.

IPCC. (2007c). *Climate change 2007—Mitigation of climate change*. Contribution of Working Group III to the Fourth Assessment Report of the IPCC. Published for the Intergovernmental Panel on Climate Change. Cambridge University Press. http://www. Ipcc. Ch/ipccreports/ar4-wg3. Htm.

IPCC. (2007d). *Climate change 2007—Synthesis report: Summary for policymakers*. Published for the Intergovernmental Panel on Climate Change. Cambridge University Press. http://www. Ipcc. Ch/pdf/assessment-report/ar4/syr/ar4_syr_spm. Pdf.

Ipsos MORI. (2007). *Tipping point or turning point?* www.Ipsos-mori.Com/_assets/pdfs/turning%20point%20or%20tipping%20point. Pdf (accessed 3 October 2008).

Ipsos MORI. (2008). *Public attitudes to climate change, 2008: Concerned but still unconvinced*. www. Ipsos-mori.Com/content/public-attitudes-to-climate-change-2008-concerned. Ashx (accessed 3 October 2008).

Iyengar, S. (1991). *Is anyone responsible? How television frames political issues*. Chicago: University of Chicago Press.

Jamison, A. (1996). The shaping of the global environmental agenda: The role of non-governmental organisations. In S. Lash, S. Bronislaw, & B. Wynne (Eds.), *Risk, environment and modernity: Towards a new ecology*. London: Sage.

Jha, A. K., Sharma, C., Singh, N., Ramesh, R., Purvaja, R., & Gupta, P. K. (2008). Greenhouse gas emissions from municipal solid waste management in Indian mega-cities: A case study of Chennai landfill sites. *Chemosphere, 71*, 750–758.

Jhally, S. (1990). *The codes of advertising*. New York: Routledge

Jia, H. (2008, April). Climate change media survey results and analysis. *Climate Change Journalist Club*. Draft report.

Jones, C. (2001). Co-evolution of entrepreneurial careers, institutional rules and competitive dynamics in American film. *Organization Studies, 22*(6), 911–944.

Joppke, C. (1991). Social movements during cycles of issue attention: The decline of the anti-nuclear energy movements in West Germany and the USA. *British Journal of Sociology, 42*(1), 43–60.

Kahn, R., & Kellner, D. (2004). New media and Internet activism: From the battle of Seattle to blogging. *New Media & Society, 6*(1), 87–95.

Kahneman, D., & Tversky, A. (1984). Choices, values and frames. *American Psychologist, 39*, 341–350.

Kasperson, R. K., Pidgeon, N. F., & Slovic, P. (2003). *The social amplification of risk*. Cambridge: Cambridge University Press.

Kempton, W. (1991). Lay perspectives on global climate change. *Global Environmental Change, 1*(3), 183–208.

Kerr, J. (2006, 22 November). 25 nuclear plants by 2050. *Australian*, p. 1.

Kerr, R. (2007). Pushing the scary side of global warming. *Science, 316*, 1412–1414.

Kirby, D. A. (2003). Scientists on the set: Science consultants and the communication of science in visual fiction. *Public Understanding of Science, 12*, 261–278.

Kitkup, J. (2008, 9 July). MPs threaten climate change revolt. *The Telegraph*, p. 4.

Kitzinger, J. (2006). Framing and frame analysis. In E. Devereux (Ed.), *Media studies: Key issues and debates*. London: Sage.

Kitzinger, J., & Reilly, J. (1997). The rise and fall of risk reporting: Media coverage of human genetics research, false memory syndrome and mad cow disease. *European Journal of Communication, 12*(3), 319–350.

Kline, S. L., Karel, A. I., & Chatterjee, K. (2006). Covering adoption: General depictions in broadcast news. *Family relations, 55*(4), 487–498.

Kogan, R. (2001, 30 September). The cruise that became a cause: Land's End founder Gary Comer sailed into the Arctic as a tourist, he returned as a crusader on global warming. *Chicago Tribune*, p. C12.

Ladle, R. J., Jepson, P., & Whittaker, R. J. (2005). Scientists and the media: The struggle for legitimacy in climate change and conservation science. *Interdisciplinary Science Reviews, 30*(3), 231–240.

Lahsen, M. (2005a). Seductive simulations: Uncertainty distribution around climate models. *Social Studies of Science, 35*(6), 895–922.

Lahsen, M. (2005b). Technocracy, democracy, and U.S. climate politics: The need for demarcations. *Science, Technology, & Human Values, 30*, 137–169.

Latour, B. (1993). *We have never been modern* (Catherine Porter, Trans.). Cambridge, MA: Harvard University Press.

Latta, P. A. (2007). Locating democratic politics in ecological citizenship. *Environmental Politics, 16*(3), 377–393.

Layard, R (2003, 3, 4, 5 March). *Lionel Robbins Memorial Lectures, 2002/2003*. Delivered at the London School of Economics.

Lean, G. (2007). Climate change: An inconvenient truth...for C4. *The Independent*. www.Independent.Co.uk/environment/climate-change/climate-change-an-inconvenient-truth-for-c4–439773. Html (accessed 23 July 2008).

Lean, G. (2008). Mobile phones more dangerous than smoking. *The Independent*. www.Independent.Co.uk/life-style/health-and-wellbeing/health-news (accessed 20 October 2008).

Leemans, R. (2008). Personal experiences with the governance of the policy-relevant IPCC and Millennium Ecosystem Assessments. *Global Environmental Change, 18*(1), 12–17.

Leiserowitz, A. (2004). Before and after *the day after tomorrow*. *Environment, 46*, 22–37.

Leiserowitz, A. (2006). Climate change risk perception and policy preferences: The role of effect, imagery and values. *Climatic Change, 77*, 45–72.

Leiserowitz, A. (2007). Communicating the risks of global warming: American risk perceptions, affective images, and interpretive communities. In S. C. Moser & L. Dilling (Eds.), *Creating a climate for change: Communicating climate change and facilitating social change*. Cambridge: Cambridge University Press.

Lenton, T.M., Held, H., Kriegler, E., Hall, J.W., Lucht, W., Rahmstorf, S. & Schellnhuber, H.J. (2008). Tipping Elements in the Earth's Climate System, *Proceedings of the National Academy of Sciences of the USA, 105*(6), 1786–1793.

Levitt, J. (2007, 1 April). Cash from waste. EE Times Supply Network. //eetimessupplynetwork.com/showArticle.jhtml?articleID=197008176 (accessed 12 June 2008).

Lewis, D. (2007, 26 July). Bourke's backbone struggling to keep the town's head up. *Sydney Morning Herald*.

Lewis, J. (2001). *Constructing public opinion*. New York: Columbia University Press, 2001.

Lewis, J., Inthorn, S., & Wahl-Jorgensen, K. (2005). *Citizens or consumers? What the media tell us about political participation*. Maidenhead: Open University Press.

Lewis, J., Williams, A., & Franklin, B. (2008). A compromised fourth estate? UK news journalism, public relations and news sources. *Journalism Studies, 9*(1), 1–20.

Lewis, S. (2006, 6–7 January). Climate fund's $100m kickstart. *Weekend Australian*, p. 1.

Lin, E., Xu, Y., Wu, S., Ju, H., & Ma, S. (2007). China's National Assessment Report on Climate Change (II), Climate change impacts and adaptation. *Advances in Climate Change Research. 3*(Suppl.), 6–11. www.Climatechange.Cn/qikan/manage/wenzhang/02. Pdf (accessed 23 March 2008).

Linder, S. H. (2006). Cashing-in on risk claims: On the for-profit inversion of signifiers for "global warming." *Social Semiotics, 16*(1), 103–132.

Lindvall, J. (2004). *The politics of purpose*. Gothenburg: Department of Political Science, Gothenburg University.

Liu, X., Vedlitz, A., & Alston, L. (2008). Regional news portrayals of global warming and climate change. *Environmental Science & Policy, 11*, 379–393.

Liverman, D. (2007). From uncertain to unequivocal: The IPCC Fourth Assessment Report on the Physical Science Basis of Climate Change. *Environment, 49*(8), 36–39.

Lockwood, A. (2008, September). *Seeding doubt: The influence of online scepticism in the delay to act on climate change*. Paper presented at the Association for Journalism in Education Conference, University of Sheffield.

Lorenzoni, I., & Pidgeon, N. F. (2006). Public views on climate change: European and USA perspectives. *Climatic Change, 77*, 73–95.

Lorenzoni, I., Pidgeon, N. F., & O'Connor, R. E. (2005). Dangerous climate change: The role of risk research. *Risk Analysis, 25*(6), 1387–1398.

Lowe, I. (2007). Reaction time: Climate change and nuclear opinion. *Quarterly Essay, 27*, 1–88.

Lowe, T. (2006). Is this climate porn? How does climate change communication affect our perceptions and behaviour? *Tyndall Centre for Climate Change Research Working Paper 98*. www.Tyndall. Ac.uk/publications/working_papers/twp98. Pdf (accessed 16 August 2008).

Lowe, T., Brown, K., Dessai, S., De França Doria, M., Haynes, K., & Vincent, K. (2006). Does tomorrow ever come? Disaster narrative and public perceptions of climate change. *Public Understanding of Science, 15*(4), 435–457.

Luganda, P. (2007). Media can help fight climate change in Africa. *SciDev.Net*. www. Scidev.Net/en/opinions/media-can-help-fight-climate-change-in-africa.Html (accessed 3 March 2008).

Luis, A. (2008). Editors' consultation eyes climate change. *International Center for Journalists*. //knight.Icfj.org/OurWork/TheImpact/ImpactArulLouis/tabid/686/Default.Aspx (accessed 2 February 2008).

Lunn, S. (2007, 9 March). French minister plants nuclear hope. *Australian*, p. 6.

Lupia, A., & Sin, G. (2003).Which public goods are endangered? How evolving communication technologies affect the logic of collective action. *Public Choice, 117*(3–4), 315–331.

Lusoli, W. (2005). A second-order medium? The Internet as a source of electoral information in 25 European countries. *Information Polity, 10*(3–4), 247–265.

Lusoli, W., & Ward, S. (2003, March–April). *Hunting protesters: Mobilisation, participation, and protest online in the countryside alliance.* Paper presented at the ECPR Joint Sessions, University of Edinburgh.

Lusoli, W., & Ward, S. (2005). Politics makes strange bedfellows. *The Harvard International Journal of Press/Politics, 10*(4), 71–97.

Lusoli, W., Ward, S., & Gibson, R. (2006). (Re)connecting politics? Parliament, the public and the Internet. *Parliamentary Affairs, 59*(1), 24–42.

Luther, C. A., & Zhou, X. (2005). Within the boundaries of politics: news framing of SARS in China and the United States. *Journalism & Mass Communication Quarterly, 82*(4), 857–872.

Lynas, M. (2007, 30 August). Neutrality is cowardice. *New Statesman.* www.Newstatesman. Com/environment/2007/08/climate-change-lynas-planet (accessed 30 March 2008).

MacGregor, S. (2006). *Beyond mothering earth: Ecological citizenship and the politics of care.* Vancouver: University of British Columbia Press.

Madha, O. (Director). (2008). *Burn up* [Television mini-series]. BBC; Global Television.

Madigan, M. (2007, 18 July). Black mark on emissions—Report hits Australia's spiralling carbon debt. *Courier-Mail.*

Maiden, S., & Box, D. (2006, 12 January). Nuclear power crucial to helping environment says US. *Australian,* p. 1.

Malone, T. W., & Klein, M. (2007). Harnessing collective intelligence to address global climate change. *Innovations: Technology, Governance, Globalization, 2*(3), 15–26.

Mann, M.E. (2005, 18 November). The false objectivity of "balance." *RealClimate.* www.Realclimate.org/index.Php/archives/2005/11/the-false-objectivity-of-balance/ (accessed 20 July 2007).

Manyatsi, A. M. (2007). *Media coverage, community perspectives and policy response on climate change and climate change adaptation in Swaziland.* Panos Institute: Southern Africa.

Marland, G., Boden, T., & Andres, B. (n.d.). Ranking of the world's countries by 2004 per capita fossil-fuel CO2 emission rates. *Carbon Dioxide Information Analysis Center.* //cdiac.ornl.gov/trends/emis/top2004. Cap (accessed 14 August 2008).

Maseko, M., & Mayembe, M. (2007). *Media coverage, community perspectives and policy response on climate change and climate change adaptation in Zambia.* Panos Institute Southern Africa.

Maxwell, R., & Miller, T. (2008). Ecological ethics and media technology. *International Journal of Communication, 2*(Feature), 331–353.

May, R. M., & Pitts, R. (2000). *Communicating the science behind global environmental change issues.* London: Earthscan.

Mayfield, K. (2003, 10 January). E-Waste: Dark side of digital age. *Wired.*

Mazur, A. (1981). Media coverage and public opinion on scientific controversies. *Journal of Communication, 31*(2), 106–115.

Mazur, A. (1990). Nuclear power, chemical hazards, and the quantity of reporting. *Minerva, 28*(3), 294–323.

Mazur, A. (1998). Global environmental change in the news. *International Sociology, 13*(4), 457–472.

Mazur, A., & Lee, J. (1993). Sounding the global alarm: Environmental issues in the US national news. *Social Studies of Science, 23*(4), 681–720.

McCarthy, J. (2007, 19 July). Good times just keep on rolling. *Courier-Mail.*

McComas, K., & Shanahan, J. (1999). Telling stories about global climate change: Measuring the impact of narratives on issue cycles. *Communication Research, 26*(1), 30–57.

McCombs, M. E., Shaw, D. L., & Weaver, D. (1997). *Communication and democracy: Exploring the intellectual frontiers in agenda-setting theory.* Mahwah, NJ: Lawrence Erlbaum.

McCright, A., & Dunlap, R. (2000). Challenging global warming as a social problem: An analysis of the conservative movement's counter-claims. *Social Problems, 474,* 499–522.

McCright, A., & Dunlap, R. (2003). Defeating Kyoto: The conservative movement's impact on US climate policy. *Social Problems, 50*(3), 348–373.

McKibben, B. (1989). *The end of nature.* Random House.

McManus, M. (1994). *Market driven journalism: Let the citizen beware?* Thousand Oaks, CA: Sage.

McManus, P. (2000). Beyond Kyoto? Media representation of an environmental issue. *Australian Geographical Studies, 38*(3), 306–319.

McNair, B. (1994). *News and journalism in the UK.* London: Routledge.

McNair, B. (2000). *Journalism and democracy.* London: Routledge.

McQueen, M. P. (2008, 1 July). Hurricane watch: Insurers criticized for new rate models. *The Wall Street Journal,* p. A1.

Media Monitors. (2007). *The energy debate: Discussion on nuclear, coal, solar, wind and other energy sources in Asia Pacific.* www.Mediamonitors. Com. Au/documents/Energy%20Report. Pdf (accessed 8 July 2008).

Meyer, D. (2007). Building social movements. In S. C. Moser & L. Dilling (Eds.), *Creating a climate for change: Communicating climate change and facilitating social change.* Cambridge: Cambridge University Press.

Milieu en Natuur Planbureau (Netherlands Environmental Assessment Agency). (2007). Chinese CO2 emissions in perspective—Country intercomparison of CO2 emissions. www.Mnp.Nl/en/service/Newsitems/20070622ChineseCO2emissionsinperspective. Html (accessed 2 August 2008).

Miller, C. (2000). The dynamics of framing environmental values and policy: Four models of societal processes. *Environmental Values, 9,* 211–233.

Miller, M. M., & Riechert, B. P. (2000). Interest group strategies and journalistic norms: News media framing of environmental issues. In S. Allan, B. Adam, & C. Carter (Eds.), *Environmental Risks and the Media.* London: Routledge.

Miller, T. (1992). An editorial introduction for radio. *Continuum: The Australian Journal of Media & Culture, 6*(1), 5–13.

Miller, T. (2007a). *Cultural citizenship: Cosmopolitanism, consumerism, and television in a neoliberal age.* Philadelphia: Temple University Press.

Miller, T. (2007b, 16 December). Face up to tech waste. *Press-Enterprise*. www.Pe. Com/localnews/ opinion/localviews/stories/PE_OpEd_Opinion_D_op_1216_miller_loc.1b11b81. Html (accessed 20 July 2008).

Miller, T. (2008). La mano visible: Apuntes sobre la incorporación del impacto ambiental de las tecnologías mediaticas en la investigación sobre medios y globalización [The visible hand: Notes on the incorporation of the environmental impact of media technologies on media and globalisation research]. In J.C. Lozano Rendón (Ed.), *Comunicación.* Monterrey: Fondo Editorial de Nuevo León.

Milne, G. (2005, 11 April). Climate changes on Labor's nuclear reaction. *Australian,* p. 15.

Monbiot, G. (2003). *The age of consent: A manifesto for a new world order.* London: Flamingo.

Monbiot, G. (2006). *Heat: How to stop the planet burning.* London: Penguin Books.

Monbiot, G. (2007, 1 April). *Correspondence with Hamish Mykura.* www.Monbiot. Com/ archives/2007/04/01/correspondence-with-hamish-mykura/ (accessed 20 March 2008).

Mooallem, J. (2008, 13 January). The afterlife of cellphones. *New York Times,* pp. 38−43.

Mormont, M., & Dasnoy, C. (1995). Source strategies and the mediatization of climate change. *Media, Culture and Society, 17,* 49−64.

Mosco, V. (2004). *The digital sublime.* Cambridge, MA: MIT Press.

Moscovici, S. (1988). Notes towards a description of social representations. *European Journal of Social Psychology, 18,* 211−250.

Moscovici, S. (2000). *Social representations: Explorations in social psychology.* Cambridge: Polity Press.

Moscovici, S. (2007). *Psychoanalysis: Its image and its public.* Oxford: Blackwell Publishing (originally published in French, 1961).

Moser, S. C., & Dilling, L. (2004). Making climate hot: Communicating the urgency and challenge of global climate change. *Environment, 46*(10), 32−46.

Moser, S. C., & Dilling, L. (Eds.). (2007). *Creating a climate for change: Communicating climate change and facilitating social change.* Cambridge: Cambridge University Press.

Murdoch, R. (2007). *Remarks by Rupert Murdoch AC, Chairman and Chief Executive Officer, News Corporation at launch of Global Energy Initiative to News Corporation Employees.* www.1degree. Net.Au/files/RMurdochRemarksClimateChange. Pdf (accessed 16 August 2008).

Murdock, G., Petts, J., & Horlick-Jones, T. (2003). After amplification: Rethinking the role of the media in risk communication. In N. Pidgeon, R. E. Kasperson, & P. Slovic (Eds.), *The social amplification of risk.* Cambridge: Cambridge University Press.

Myers, G., & Macnaghten, P. (1998). Rhetorics of environmental sustainability: Commonplaces and places. *Environment and Planning A, 30,* 333−353.

Mythen, G. (1998). *Ulrich Beck: A critical Introduction to the risk society.* London: Pluto.

Naturvårdsverket (Swedish Environmental Protection Agency). (2006). *Allmänheten och växthuseffekten 2006* (The public and the greenhouse effect, 2006). www.Naturvardsverket. Se/klimat (accessed 3 March 2008).

Naturvårdsverket (Swedish Environmental Protection Agency). (2008). *Allmänhetens kunskaper och attityder till klimatförändringen* (Public knowledge and attitudes towards climate change). ARS Research AB.

Nelkin, D. (1987). *Selling science: How the press covers science and technology.* New York: W. H. Freeman and Company.

Nerlich, B. (2008). The post-antibiotic apocalypse and the war on superbugs: Catastrophic discourse in microbiology, its rhetorical form and political function. *Public Understanding of Science.* (in press)

Neuman, W. R., Just, M. R., & Crigler, A. N. (1992). *Common knowledge: News and the construction of political meaning.* Chicago: University of Chicago Press.

New Age. (2007, 1 December). Living climate change. Supplement. www.Newagebd.Com/2007/ dec/01/climatechange07/climatechange07.html (accessed 12 January 2008).

New Age. (2008, 31 March). Faces of change: A special issue on climate change. www.Newagebd. Com/2007/dec/01/climatechange07/climatechange07.html (accessed 12 May 2008).

Newell, P. (1997). *Climate for change: Non-state actors and the global politics of the greenhouse.* Cambridge: Cambridge University Press.

New York Times (2007, 20−24 April). New York Times/CBS News poll. *New York Times.* graphics8.Nytimes. Com/packages/pdf/national/20070424_poll. Pdf (accessed 16 August 2008).

Nicholson-Cole, S. (2005) Representing climate change futures: a critique on the use of images for visual communication Computers, Environment and Urban Systems, 29, 255−273.

Niman, M. I. (2003, 29 May). *Kodak's toxic moments.* kodakstoxiccolors.org (accessed 29 July 2008).

Nisbet, M., & Mooney, C. (2007). Framing science. *Science, 316*(5821), 56.

Nissani, M. (1999). Media coverage of the greenhouse effect. *Population and Environment, 21*(1), 27−43.

Nivón, E. B. (Ed.). (2006). *Políticas culturales en México: 2006–2020: Hacia un plan estratégico de desarrollo cultural.*[Cultural policies in Mexico, 2006−202: Towards a strategic plan for cultural development]. Mexico City: Universidad de Guadalajara/Miguel Ángel Porrúa.

Nohrstedt, S. A. (2007). Ideological horizons: Outline of a theory on hegemony in news discourse. In B. Höijer (Ed.), *Ideological horizons in media and citizen discourses: Theoretical and methodological approaches.* Göteborg: Nordicom.

Oates, S. (2008). *An introduction to media and politics.* London: Sage.

Ofcom (2007). *New news, future news: The challenges for television news after digital switch-over.* London: Ofcom.

Ofcom (2008a). *Ofcom broadcast bulletin.* Issue 114. www.ofcom.org.uk/tv/obb/prog_cb/obb114/ issue114. Pdf (accessed 1 November 2008).

Ofcom (2008b). *The ofcom broadcasting code.* www.ofcom.org.uk/tv/ifi/codes/bcode/bcode. Pdf (accessed 1 November 2008).

Olausson, U. (2005). *Medborgarskap och globalisering. Den diskursiva konstruktionen av politisk identitet* (Citizenship and globalization: The discursive construction of political identity). Örebro Universitet: Örebro Studies in Media and Communication 3.

Olausson, U. (2009). Global Warming—Global Responsibility? Media Frames of Collective Action and Scientific Certainty. *Public Understanding of Science, 18*(4) (in press).

Olausson, U. (in press). Towards a European Identity? The News Media and the Case of Climate Change. *European Journal of Communication.*

Olausson, U., & Uggla, Y. (in press). Offentlig kommunikation om klimatförändring (Public communication on climate change). In I. Elander & Y. Uggla, (Eds.). Global uppvärmning och lokal politik. (Global Warming and Local Politics). Stockholm: Santérus förlag.

Olson, M. (1965). *The logic of collective action: Public good and the theory of groups.* Cambridge, MA: Harvard University Press.

Olson, S. R. (1999). *Hollywood Planet: Global media and the competitive advantage of narrative transparency.* Mahwah, NJ: Lawrence Erlbaum.

O'Malley, B. (2007a, 24 July). Bikeway so near—And yet so far. *Courier-Mail.*

O'Malley, B. (2007b, 28 July). Politicians lose plot on global warming. *Courier-Mail.*

O'Neill, S. J., & Nicholson-Cole, S. (2009). Fear won't do it: Promoting positive engagement with climate change through visual and iconic representations. *Science Communication* (in press).

OneWorld. (2008). More media coverage of climate change a necessity. *One World.* us.oneworld. Net/article/358246-more-media-coverage-climate-change-a-necessity (accessed 28 October 2008).

Osibanjo, O., & Nnorom, I. C. (2007). The challenge of electronic waste (e-waste) management in developing countries. *Waste Management & Research, 25,* 489–501.

Owens, L., & Palmer, L. K. (2003). Making the news: Anarchist counter-public relations on the World Wide Web. *Critical Studies in Media Communication, 20*(4), 335–361.

Paget, D. (1998). *No other way to tell it: Dramadoc/docudrama on television.* Manchester: Manchester University Press.

Painter, J. (2007). *All doom and gloom? International TV coverage of the April and May 2007 IPCC reports.* www.eci.ox. Ac.uk/news/events/070727-carbonundrum/painter. Pdf (accessed 23 October 2008).

Palfreman, J. (2006). A tale of two fears: Exploring media depictions of nuclear power and global warming. *Review of Policy research, 23*(1), 23–43.

Papacharissi, Z., & Oliveira, M. (2008). News frames terrorism: A comparative analysis of frames employed in terrorism coverage in U.S., & U.K. newspapers. *The International Journal of Press/Politics, 13*(1), 52–74.

Paradis, T. (2007, 25 April). Big mutual funds not warming up to climate issue. *Chicago Tribune,* p. C9.

Parks, L. (2007). Falling apart: Electronics salvaging and the global media economy. In C. Acland (Ed.), *Residual media.* Minneapolis: University of Minnesota Press.

Patt, A. (2007). Assessing model-based and conflict-based uncertainty. *Global Environmental Change, 17*(1), 37–46.

Patterson, T. (1993). *Out of order.* New York: Knopf.

Payne, R. A. (2007). The geopolitics of global climate change. *Sustain, 16,* 9–15.

Peatling, S. (2007a, 18 July). Emissions job will be even harder to institute. *Sydney Morning Herald.*

Peatling, S. (2007b, 18 July). Battle for credibility goes under the sheets. *Sydney Morning Herald.*

Perkowitz, S. (2007). *Hollywood science.* New York: Columbia University Press.

Pettenger, Mary E. (Ed.). (2007). *The social construction of climate change: Power, knowledge, norms, discourses.* Aldershot: Ashgate.

Pham, H. D. (2007). *Climate change coverage by the Vietnamese media:. Institute of Health, Environment and Development in association with the Vietnam Forum of Environmental Journalists and Internews Earth Journalism Network.* www.earthjournalism.Com/ejn_vietnam_execsum_20071201. Htm (accessed 18 October 2008).

Pickerill, J. (2003). *CyberProtest: Environmental activism online.* Manchester: Manchester University Press.

Pilkington, E. (2008, 23 June). Put oil firm chiefs on trial, says leading climate change scientist. *The Guardian.* www.guardian.Co.uk/environment/2008/jun/23/fossilfuels.Climatechange (accessed 25 June 2008).

Plane Stupid. (2008). www.Planestupid.Com/ (accessed 19 July 2008).

Porteous, C. (2007, 28 July). Climate change at centre stage. *Courier-Mail.*

Potter, J., & Wetherall, M. (1987). *Discourse and social psychology: Beyond attitudes and behaviour.* London: Sage.

Power, S., & Talley, I. (2008, 12 July). Administration releases EPA report, then repudiates it- Blueprint to reduce greenhouse gases called too costly. *The Wall Street Journal,* p. A2.

Price, V., Tewksbury, D., & Powers, E. (1997). Switching trains of thought: The impact of news frames on readers' cognitive responses. *Communication Research, 24*(5), 481–506.

Princen, T., & Finger, M. (1994). *Environmental NGOs in world politics: Linking the local and the global.* London: Routledge.

Pusey, M. (2003). *The experience of Middle Australia: The dark side of economic reform.* Cambridge: Cambridge University Press.

Rabkin, S., & Gershon, D. (2007). Changing the world one household at a time: Portland's 30-day program to lose 5,000 pounds. In S. C. Moser & L. Dilling, L. (Eds.), *Creating a climate for change: Communicating climate change and facilitating social change.* Cambridge: Cambridge University Press.

Ray, M. R., Mukherjee, G., Roychowdhury, S., & Lahiri, T. (2004). Respiratory and general health impairments of ragpickers in India: A study in Delhi. *International Archives of Occupational and Environmental Health, 77,* 595–598.

Rayner, S., & Malone, E. (Eds.). (1998). *Human choice and climate change. Vol. 1: The societal framework.* Columbus, OH: Batelle Press.

Rector, L. H. (2008). Comparison of Wikipedia and other encyclopedias for accuracy, breadth, and depth in historical articles. *Reference Services Review, 36*(1), 7–22.

Reese, S. (2003). Prologue-Framing public life: A bridging model for media research. In S. Reese, O. Gandy, & E. Grant (Eds.), *Framing public life.* Mahwah, NJ: Lawrence Erlbaum.

Regeringens klimatpolitik. (2008, April). *Insatser och initiativ i klimatarbetet* (Achievements and initiatives in the climate work). *Informationsblad från Miljödepartementet* (Information from the Swedish government, Ministry of the Environment). www. Regeringen.Se.

Revkin, A. C. (2007). Climate change as news: Challenges in communicating environmental science. In J. F. C. DiMento & P. Doughman (Eds.), *Climate change: What it means for us, our children, and our grandchildren.* Cambridge, MA: MIT Press.

Richardson, L. (2000). Writing: A method of enquiry. In N. K. Denzin & Y. S. Lincoln (Eds.), *Handbook of qualitative research* (2nd ed.). London: Sage.

Riegert, K. (1998). *Nationalising foreign conflict.* Stockholm: University of Stockholm.

Riffe, D., Lacy, S., & Fico, F. (2005). *Analyzing media messages: Using quantitative content analysis in research.*

Risbey, J. S. (2008). The new climate discourse: Alarmist or alarming? *Global Environmental Change, 18*(1), 26–37.

Rogers, R.W. (1983). Cognitive and physiological processes in fear appeals and attitude change: a revised theory of protection motivation. In J. Cacioppo & R. Petty (Eds.), *Social Psychophysiology.* New York: Guilford Press.

Rogers, R., & Marres, N. (2000). Landscaping Climate Change: A mapping technique for understanding science and technology debates on the World Wide Web. *Public Understanding of Science, 9*(2), 141–163.

Romero, P. (2008, 14 August). The campaign for reporting on climate change starts in the newsroom. *Newsbreak.Com.* //newsbreak. Com.Ph/index. Php?option=com_content&task=view &id=5241&Itemid=88889066 (accessed 20 August 2008).

Rootes, C. (2005). A limited transnationalisation? The British environmental movement. In D. Porta & S. Tarrow (Eds.), *Transnational protest and global activism.* Oxford: Rowman and Littlefield.

Rootes, C. (2006). Facing South? British environmental movement organisations and the challenge of globalisation. *Environmental Politics, 15*(5), 768–786.

Rosen, C. M., & Sellers, C. C. (1999). The nature of the firm: Towards an ecocultural history of business. *Business History Review, 73*(4), 577–600.

Rosenstone, R. A. (2003). Comments on science in the visual media. *Public Understanding of Science, 12*, 335–339.

Rowell, A. (2007). Exxon's foot soldiers: The case of the international policy network. In W. Dinan & D. Miller (Eds.), *Thinker, faker, spinner, spy: Corporate pr and the assault on democracy.* London: Pluto.

Rowling, M. (2008).Who's helping media in developing countries tackle climate change? *Thomson Reuters AlertNet.* www.Alertnet.org/db/blogs/20316/2008/07/15–173925–1. Htm (accessed 1 September 2008).

Royal Society. (2007). *Climate change controversies: A simple guide.* London: The Royal Society.

Russell, B. (2006, 1 November). Flat screen televisions will add to global warming. *The Independent.*

Russell, C. (2008, July/August). Climate change: now what? *Columbia Journalism Review.* www.Cjr. org/feature/climate_change_now_what. Php?page=1 (accessed 1 September 2008).

Russill, C. (2008). The billion-dollar Kyoto botch-up: Climate change communication in New Zealand. *Media International Australia, 127*, 138–151.

Ryan, C. (1991). *Prime time activism: Media strategy for grassroots organising.* Boston, MA: South End Press.

Rydh, C. J. (2003). *Environmental assessment of battery systems: Critical issues for established and emerging technologies.* Thesis. Department of Environmental Systems Analysis, Chalmers University of Technology, Göteborg.

Sancho, J. (2001). *Election 2001: Viewers' response to the television coverage.* London: Independent Television Commission.

Saunders, A. (2008, 8 September). The elephant in a warming room: Media in developing countries struggle to give global climate change local coverage. *MediaGlobal.* www.Mediaglobal.org/ article (accessed 8 September 2008).

Schaefer, P. D., & Durham, M. G. (2007). On the social implications of invisibility: The iMac G5 and the effacement of the technological object. *Critical Studies in Media Communication, 24*(1), 39–56.

Scheufele, D. A. (1999). Framing as a theory of media effects. *Journal of Communication, 49*(1), 103–122.

Schlamme, T. (Director). (1999). *The west wing* [Television series]. USA: NBC.

Schoenfeld, A. (2007, 22 December). Everyday items, complex chemistry. *New York Times,* p. C9.

Schuck, A., & De Vreese, C. H. (2006). Between risk and opportunity: News framing and its effects on public support for EU enlargement. *European Journal of Communication, 21*(1), 5–32.

Scottish Broadcasting Commission. (2008). *Public attitudes to broadcasting in Scotland.* www. Scotland.gov.uk/publications/2008/05/08112958/3 (accessed 20 August 2008).

Segnit, N., & Ereaut, G. (2007). *Warm words II: How the climate story is evolving.* London: IPPR and the Energy Saving Trust.

Semetko, H. A., & Valkenburg, P. M. (2000). Framing European politics: A content analysis of press and television news. *Journal of Communication, 50*(2), 93–110.

Shanahan, D. (2007, 10–11 March). One big happy nuclear family. *Weekend Australian,* p. 27.

Shanahan, D. (2008, 29 July). Don't wait for world on climate: poll. *The Australian.* www. heaustralian.News.Com. Au/story/0,25197,24093601–5013871,00. Html (accessed 13 August 2008).

Shanahan, D. & Marris, S. (2007, 6 March). Nation Warms to Nuclear Future. *The Australian.*

Shanahan, D., & Murphy, K. (2005, 10 June). PM fires up debate on n-power. *Australian,* p. 6.

Shanahan, J., & McComas, K. (1999). *Nature stories: Depictions of the environment and their effects.* New Jersey: Hampton Press.

Shanahan, M. (2006). Science journalism: Fighting a reporting battle. *Nature, 443,* 392–393.

Shanahan. M. (2008). Bridging the climate-change media divide on the road to Copenhagen, *IISD/ MEA Bulletin,* 40a. www. Iisd.Ca/mea-l/guestarticle40a.Html (accessed 20 August 2008).

ShapeNZ (2008). *New Zealanders' views on climate change and emissions trading.* www.Nzbcsd.org. Nz/story.Asp?id=865 (accessed 13 August 2008).

Shellenberger, M., & Nordhaus, T. (2004). *The death of environmentalism: Global warming politics in a post-environmental world.* //thebreakthrough.org/PDF/Death_of_Environmentalism.Pdf (accessed 15 April 2008).

Shogren, E. (2001, 4 August). Powerful pact formed in Senate on global warming. *Los Angeles Times,* p. 12.

Siebert, F. S., Peterson, E., & Schramm, W. L. (1963). *Four theories of the press.* Illinois: University of Illinois Press.

Simms, A. (2007). *Tescopoly.* London: Constable.

Simmons, D. (2005, 14 October). India's poor tackle e-waste. *BBC News.*

Singer, S. F., & Avery, D. T. (2006). *Unstoppable global warming every 1,500 years.* Lanham, MD: Rowman and Littlefield.

Slade, G. (2007, March/April). I Waste. *Mother Jones*, p. 76.

Slater, D. (2007, 12 August). Resolved: Public corporations shall take us seriously. *The New York Times*, section MM, p. 22.

Slovic, P. (2000). *The perception of risk*. London: Earthscan.

Smith, J. (Ed.). (2000). *The Daily Globe: Environmental change, the public and the media*. London: Earthscan.

Smith, J. (2005). Dangerous news: Media decision making about climate change risk. *Risk Analysis*, 25(6), 1471–1482.

Smith, L. (2006, 13 October). Bill to tackle climate change. *The Times*.

Snell, C. (2008). Climate change and climate change policy in the UK 2006–2007. *Social Policy Review*, 20(1), 69–92.

Snyder, C. R., Rand, K. L., & Sigmon, D. R. (2001). Hope theory: A member of the positive psychology family. In C. R. Snyder & S. J. Lopez (Eds.), *Handbook of positive psychology*. Oxford: Oxford University Press.

Spaargaren, G., & Mol, A. P. J. (1992). Sociology, environment and modernity: Ecological modernization as a theory of social change. *Society and Natural Resources*, 5, 323–344.

Sparks, C., & Tulloch, J. (2000). *Tabloid tales: Global debates over media standards*. Lanham, MD: Rowman and Littlefield.

Stamm, K., Clark, F., & Eblacas, P. (2000). Mass communication and public understanding of environmental problems: The case of global warming. *Public Understanding of Science*, 9, 219–237.

Stauber, J., & Rampton, S. (2002). *Trust us, we're experts! How industry manipulates science and gambles with your future*. New York: Penguin Putnam.

Stegman, A. (2005). Convergence in carbon emissions per capita. *Centre for Applied Macroeconomic Analysis Working Paper 8*. The Australian National University. //cama. Anu.edu. Au/ Working%20Papers/Papers/2005/Stegman82005.Pdf (accessed: 26 August 2008).

Stern, N. (2006). *Stern review on the economics of climate change*. London: HM Treasury. www. Hmtreasury.gov.uk/independent_reviews/.Cfm (accessed 16 September 2007).

Sterne, J. (2007). Out with the trash: On the future of new media. In C. Acland (Ed.), *Residual media*. Minneapolis: University of Minnesota Press.

Stop Climate Chaos. (2008). *Home Page*. www.Stopclimatechaos.org/ (accessed 10 July 2008).

Swierstra, T. (1997). From critique to responsibility: The ethical turn in the technology debate. *Society for Philosophy and Technology*, 3(1), 6–74. //scholar. Lib.vt.edu/ejournals/SPT/v3n1/ swierstra. Html (accessed 20 July 2008).

Taylor, A. (4 August 2008). Anger at police raid on green camp ahead of coal protest. *The Guardian*. www.guardian.Co.uk/environment/2008/aug/04/kingsnorthclimatecamp. Climatechange (accessed 5 August 2008)

Thompson, C. (2008, 22 June). A green coal baron? *The New York Times*, section MM, p. 26.

Thompson, J. B. (1990). *Ideology and modern culture: Critical social theory in the era of mass communication*. Stanford: Stanford University Press.

Thompson, M., & Rayner, S. (1998). Cultural discourses. In S. Rayner & E. L. Malone (Eds.), *Human choice and climate change. Vol. 1: The societal framework*. Columbus, OH: Battelle Press.

Tickell, O. (2008). *Kyoto 2: How to manage the global greenhouse*. London: Zed Books.

Tolan, S. (2007). Coverage of climate change in the Chinese media. *Human Development Report Office Occasional Paper 38*. UN Development Programme.

Tong, X., & Wang, J. (2004). Transnational flows of e-waste and spatial patterns of recycling in China. *Eurasian Geography and Economics*, 45(8), 608–621.

Towler, R. (2002). *The public's view, 2002*. London: Independent Television Commission/ Broadcasting Standards Commission.

Trumbo, C. (1996). Constructing climate change: Claims and frames in US news coverage of an environmental issue. *Public Understanding of Science*, 5(3), 269–283.

Trumbo, C., & Shanahan, J. (2000). Social research on climate change: Where we have been, where we are, and where we might go. *Public Understanding of Science*, 9, 199–204.

Tuchman, G. (1972). Objectivity as strategic ritual: An examination of newsmen's notions of objectivity. *American Journal of Sociology*, 77(4), 660–679.

Tuchman, G. (1978). *Making news: A study in the construction of reality*. New York: Free Press.

Tunstall, J. (1996). *Newspaper Power*. Oxford: Clarendon Press.

Uggla, Y. (2008). Strategies to create risk awareness and legitimacy: The Swedish climate campaign. *Journal of Risk Research*, 11(6), 719–734.

UNDP. (2007). *Human Development Report 2007/2008 fighting climate change: Human solidarity in a divided world*. United Nations Development Programme.

UNFCC. (2008). *United Nations Framework Convention on Climate Change*. //unfccc. Int/ (accessed 20 June 2008).

Ungar, S. (1992). The rise and (relative) decline of global warming as a social problem. *The Sociological Quarterly*, 33(4), 483–501.

Ungar, S. (1998). Bringing the issue back in: Comparing the marketability of the ozone hole and global warming. *Social Problems*, 45(4), 510–527.

Ungar, S. (1999). Is strange weather in the air? A study of U.S. national network news coverage of extreme weather events. *Climatic Change*, 41(2), 133–150.

Ungar, S. (2000). Knowledge, ignorance and the popular culture: Climate change versus the ozone hole. *Public Understanding of Science*, 9(3), 297–312.

Valkenburg, P. M., Semetko, H. A., & De Vreese, C. H. (1999). The effects of news frames on reader's thoughts and recall. *Communication Research*, 26(5), 550–569.

Van Dijk, T. (1998). *Ideology: A multidisciplinary approach*. London: Sage.

Van Gorp, B. (2004). *Framing en het interpreteren van nieuws. Een experimenteel onderzoek naar de effecten van frames. (Framing and the interpretation of news: An experimental study of the effects of frames)*. PSW-paper 2004/6. Antwerpen: Universiteit Antwerpen—Faculteit politieke en sociale wetenschappen.

Von Storch, H., & Krauss, W. (2005). Culture contributes to perceptions of climate change. *Nieman Reports*, 59(4), 99–102.

Wald, M. L. (2007, 7 November)). Taming the guzzlers that power the World Wide Web. *New York Times*, p. H7.

Walker, J. (1998, April). *Memo to Global Climate Science Team.* tinyurl. Com/65rjna (accessed 20 June 2006).

Wall, D. (1999). Mobilising earth first! in Britain. In C. Rootes (Ed.), *Environmental movements: Local, national and global.* London: Frank Cass.

Wapner, P. (1996). *Environmental activism and world civic politics.* New York: State University of New York Press.

Ward, R. E. T. (2006, 4 September). *Letter to Exxon Mobil.* www.tinyurl.Com/5bjloa (accessed 30 July 2008).

Ward, R. E. T. (2007a). The Royal Society and the debate on climate change. In M. W. Bauer & M. Bucchi (Eds.), *Journalism, science and society: Science communication between news and public relations.* Abingdon, UK: Routledge.

Ward, R. E. T. (2007b). Climate change and the press: Freedom or accuracy. *Science and Public Affairs.* www.The-ba. Net/NR/exeres/F3AA3031-F103–48F6-A031–13A4F5BE9D22. Htm (accessed 23 March 2008).

Ward, R. E. T. (2008a, 10 March). Reporters feel the heat over climate change. *The Independent.* www.Independent. Co.uk/news/media/reporters793586.Html (accessed 20 November 2008).

Ward, R.E. T. (2008b). Good and bad practice in the communication of uncertainties associated with the relationship between climate change and weather-related natural disasters. In D. G. E. Liverman, C. P. G. Pereira, & B. Marker (Eds.), *Communicating environmental geoscience.* London: Geological Society.

Warren, M. (2007, 10–11 March). Generation Y says why not go nuclear. *Weekend Australian*, p. 27.

Weart, S. R. (2003). *The discovery of global warming.* Cambridge, MA: Harvard University Press.

Weekend Australian (2006, 27–28 May). Nuclear power options—The Australian National Forum. *Weekend Australian*, p. 21.

Weingart, P., Engels, A., & Pansegrau, P. (2000). Risk of communication: Discourses on climate change in science, politics, and the mass media. *Public Understanding of Science, 9*(3), 261–283.

Whitehouse, D. (2007). Ray of hope: Can the sun save us from global warming? *The Independent.* www.Independent. Co.uk/news/science/ 762878.Html (accessed 23 July 2008).

Widmer, R., Oswald-Krapf, H., Sinha-Khetriwal, D., Schnellmann, M., & Böni, H. (2005). Global perspectives on e-waste. *Environmental Impact Assessment Review, 25,* 436–458.

Wilkins, L. (1993). Between facts and values: Print media coverage of the greenhouse effect, 1987–1990. *Public Understanding of Science, 2,* 71–84.

Wilkins, L., & Patterson, P. (1987). Risk analysis and construction of news. *Journal of Communication, 37*(3), 80–93.

Wilkins, L., & Patterson, P. (1991). Science as symbol: The media chills the greenhouse effect. In L. Wilkins & P. Patterson (Eds.), *Risky business: Communicating issues of science, risk, and public policy.* Westport, CT: Greenwood.

Willetts, P. (1996). From Stockholm to Rio and beyond: The impact of the environmental movement on the United Nations consultative arrangements for NGOs. *Review of International Studies, 22,* 57–80.

Williams, M. (2008, 15 June).Greenpeace says e-waste from US stopped in Hong Kong. *PC World.*

Wilson, K. (1995). Mass media as sources of global warming knowledge. *Mass Communication Review, 22*(1 & 2), 75–89.

Wilson, K. M. (2000a). Communicating climate change through the media: Predictions, politics and perceptions of risk. In S. Allan, B. Adam, & C. Carter (Eds.), *Environmental risks and the media.* London: Routledge.

Wilson, K. (2000b). Drought, debate, and uncertainty: Measuring reporters' knowledge and ignorance about climate change. *Public Understanding of Science, 9,* 1–13.

Wilson, N. (2006, 30 May). Nuclear dawn won't be tomorrow. *Australian*, p. 26.

Winston, B. (2007). Let them eat laptops: The limits of technicism. *International Journal of Communication, 1,* 170–176.

Wintour, P. (2007, 3 August). Judges should enforce climate bill targets, say MPs. *The Guardian,* p. 13.

Wong, C. S. C., Wu, S. C., Duzgoren-Aydin, N. S., Aydin, A., & Wong, M. H. (2007). Trace metal contamination of sediments in an e-waste processing village in China. *Environmental Pollution, 145,* 434–442.

Worcester, R. M., & Mortimore, R. (2001, September). *The 2001 British general election: The most boring election ever?* Paper prepared for the Elections Public Opinion and Parties Conference, University of Sussex.

World Health Organization. (2006). *Air quality guidelines: Global update 2005: Particulate matter, ozone, nitrogen dioxide and sulphur dioxide.* Copenhagen: World Health Organization.

WWF-UK. (2008a). *Weathercocks and signposts: The environmental movement at a crossroads.* www. wwf.org.uk/filelibrary/pdf/weathercocks_report2. Pdf (accessed 1 May 2008).

WWF-UK. (2008b). 'One planet future—Will I make a difference?' www.wwf.org.uk/oneplanet/ about_0000003950. Asp (accessed 15 July 2008).

WWF. (2008a). 'Who we are.' http://www.panda.org/who_we_are/(accessed 17 April 2008).

WWF (2008b). 'Where and how we work.' http://www.panda.org/about_wwf/what_we_do/climate_change/solutions/where_we_work/index.cfm (accessed 17 April 2008).

Wynne, B. (1991). Knowledges in context. *Science, Technology and Human Values, 16*(1), 111–121.

Wynne, B. (1994). SSK's identity parade: Signing-up, off-and-on. *Social Studies of Science, 26*(2), 357–39

Wynne, B. (2008). Elephants in the rooms where publics encounter science: A response to Darrin Durant, accounting for expertise: Wynne and the autonomy of the lay public. *Public Understanding of Science, 17,* 21–33.

Xinhua News Agency. (2008, 25 August). UN seeks media partnership on climate change. //news. xinhuanet.Com/english/2008-08/25/content_9709439.Htm (accessed 20 November 2008).

Yearley, S. (2008). Nature and the environment in science and technology studies. In E. J. Hackett, O. Amsterdamska, M. Lynch, & J. Wajcman (Eds.), *The handbook of science and technology studies*. London: MIT Press.

Zehr, S. (2000). Public representations of scientific uncertainty about global climate change. *Public Understanding of Science, 9*(2), 85–103.

Zhao, Y. (1998). *Media, market, and democracy in China: Between the party line and the bottom line.* Chicago: University of Illinois Press.

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