Introduction to politics of climate change: discourses of policy and practice in developing countries

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The past 20 years have witnessed a momentous surge in interest in the idea of climate change. Much of this growth is due to the field of climate science, which has produced compelling evidence to show that human actions are significantly changing the composition of the atmosphere, which is altering the functioning of the climate system (IPCC 2007). It is also attributable to the tens of thousands of organisations, networks, companies, consultants and advocates concerned with a host of climate change-related response issues, ranging from energy and infrastructure, to risk management and reduction, to community-based adaptation that have been spawned as a result. Many of these actors are supported by major financial investments. For example, in March 2010 the UK Department for International Development (DFID) announced that it would be investing £50 million in a new programme, the Climate and Development Knowledge Network (CDKN), to 'help developing countries navigate the challenges of climate change'. This trend is set to continue with tens of billions of dollars of climate finance pledged by the international community over the next 10 years (COP 2009). In this way, climate change has become 'one of the defining contemporary international development issues' (Tanner and Allouche 2011, 1).

Studies of contemporary climate change from greenhouse gas emissions and land use changes originated in the natural sciences-based literature and the science-based institutions of the United Nations, particularly the Intergovernmental Panel on Climate Change (IPCC). This purely physical framing of the climate change issue adopted by the IPCC has dominated policymaking since the mid 1980s (Hulme 2007) and associated concepts – most notably 'mitigation' and 'adaptation' – have quickly garnered legitimacy in international debates (McNamara and Gibson 2009). However, in recent years, mounting efforts by the international policy community to link climate change interventions to human development goals that reduce poverty and promote equity have been challenged on the grounds that they systematically underplay critical cultural, socio-economic, historic and political dimensions of human societies (Gaillard 2010; Mercer 2010; Marino and Ribot 2012; Farbotko and Lazrus 2011). Mike Hulme, founding director of the world-renowned Tyndall Centre for Climate Change Research, has taken up this theme, writing in 2007 that a re-examination of climate change as a cultural concept is urgently required, one that starts with contributions from the interpretive humanities and social sciences, particularly geography, and is informed by understanding of how knowledge, power and scale interact (Hulme 2007). This is important because 'the dominating construction of climate change as an overly physical phenomenon' readily allows it 'to be appropriated uncritically in support of an expanding range of ideologies' (p. 9).

This Themed Section aims to address this concern by increasing understanding of how the idea of climate change, and the policies and actions that spring from it, travel beyond their origins in natural sciences to meet different political arenas in the developing world. Earlier work by scholars to draw attention to the political dimensions of climate change has focused on the political economy (Tanner and Allouche 2011) or the 'everyday' political realms of societal perceptions and social institutions (Artur and Hilhorst 2011). The approach taken in this edition primarily concerns the climate change phenomenon as a discursive concept operating across international, national and sub-national scales. Discourse, as it is

understood here, is concerned with the interweaving of knowledge and power (Foucault 1979), and the messages, narratives and policy prescriptions that emanate from this intersection (Adger *et al.* 2001). From an analytical perspective, discourse is the set of social mechanisms through which the constructivist challenge has been levelled at positivism (Wilson 2006). Discourse is particularly pertinent to the study of climate change because it provides a framework that is sensitive to the political construction and use of scientific knowledge. This is particularly timely given that international and national efforts to implement climate change mitigation and adaptation measures are coming under intense inspection by media, civil society, and a wide range of governmental and private sector interests (Anon 2010).

In the field of environment and development, a concern with how people imagine human–climate interactions and therefore begin to build images or narratives about particular groups of people, geographical places or periods of time is not new (cf. Furedi 2007; Endfield and Nash 2002). Some scholars view these types of cultural conception as hegemonic, in the sense that they dominate thinking and structure institutional arrangements. For example, Bankoff (2001, 19), examining the historical roots of the 'hazard' discursive framework, argues that 'tropicality, development and vulnerability form part of one and the same essentialising and generalising cultural discourse that denigrates large regions of the world as disease-ridden, poverty-stricken and disaster-prone', thus justifying Western intervention. Other scholars, however, see a greater plurality of images and narratives in which discourses can become powerful, but never completely hegemonic (Hilhorst 2001). This approach, for example, is used by McNamara and Gibson (2009) who show how the dominant representation of people living in the Pacific as 'climate refugees' by the international climate change community has been resisted by the islanders themselves, many of whom do not accord with the action of 'fleeing' as part of their vision for the future.

The papers presented in this Themed Section reflect both the hegemonic and more pluralistic positions outlined above. The articles are mostly case study based and focus on sub-Saharan Africa and Small Island Developing States (SIDS), which are considered to be among the most vulnerable regions to climate change in the world (Christensen *et al.* 2007). The articles are organised around three interlinked themes. The first theme concerns the *processes* of rapid technicalisation and professionalisation of the climate change 'industry'. According to Escobar, development has 'fostered a way of conceiving of social life as a technical problem, as a matter for rational decision and management to be entrusted to the group of people – the development professionals – whose specialised knowledge allegedly qualifies them for that task' (Escobar 1997, 91). The effect of these

processes is that the terms of the international development debate are substantially narrowed as the 'intellectual distance between donor and recipient is maintained', and potentially critical discourses are co-opted (Kothari 2005, 428). Similarly, climate change 'experts' operating within international policy circles have been criticised for utilising an increasingly 'managerial' approach to climate change policy, and therefore narrowing the boundaries of what can be viewed as legitimate social action in response to the problem (Skoglund and Jensen 2013; Few *et al.* 2007).

These concerns are taken up in this issue by Sasser (2013) who shows how one particular managerial 'solution' to the climate change problem that focuses on demographics and population control has had the effect of 'narrowing understandings of sexual and reproductive health and rights (SRHR) issues for women through the technicalisation of [their] rights'. Weisser *et al.* (2013), also in this issue, further develop this theme by demonstrating how 'expert-defined', 'mechanistic' understandings of climate change adaptation operating in international policy circles are interpreted and implemented by multiple actors operating at national and sub-national levels. Moreover, these technicalisation processes are not necessarily neutral but tend to tip the terms of the climate change debate towards compatibility with the dominant ideology of our time, neoliberalism, and the associated emphasis on trade liberalisation, marketisation, deregulisation and volunteerism (Humphreys 2009). There is now a growing literature which demonstrates the increasing neoliberalisation of climate change policy and practice (e.g. see Lohmann 2011; Featherstone 2013; Felli 2013). In this Themed Section, Arnall (2013) reflects these concerns by showing how government- and NGO-led efforts to 'build resilience' to climate change in the context of central Mozambique readily fit into the county's dominant neoliberal development agenda.

The second theme deals with the ideological *effects* of the climate change industry, which is 'depoliticisation'. This term is most associated with Ferguson (1994, xv) who likened development in Lesotho to an 'anti-politics machine', 'depoliticising everything that it touches', by depriving the subjects of anti-poverty interventions of their history and politics. More recently, efforts by donors to incorporate new approaches and techniques that attempt to reverse the top-down hegemony of development agencies, such as participation, have similarly come under attack (cf. Cooke and Kothari 2001; Hickey and Mohan 2005). This is evident from the large body of case studies showing how 'one-size-fits-all development recipes' that focus on concepts that everyone can ostensibly agree on, such as 'empowerment', deflect attention away from the political reforms needed for structural change (Cornwall and Brock 2005; Botchway 2001).

Recently, Felli and Castro (2012) have argued that the high-profile Foresight Report on Migration and Global Environmental Change (Foresight: Migration and Global Environmental Change 2011) has shifted analytical attention away from the socioeconomic and political context to refocus it onto the individual's qualities and his or her 'capacity to adapt'. Similarly, this Themed Section argues that a focus on climate change by researchers, policymakers and practitioners can deflect attention away from underlying political conditions of vulnerability and exploitation towards the nature of the physical hazard itself, be it drought, flood or some other environmental perturbation. Kelman (2013), for example, argues in this issue that, in the context of SIDS, the fundamental challenge that islanders face is not so much the hazard of climate per se, but the reason why SIDS peoples often do not have the resources or options to resolve climate change and other development challenges themselves, on their own terms.

The third theme concerns the institutional *effects* of an insufficiently socialised idea of climate change, which is the maintenance of existing relations of power or their reconfiguration in favour of the already powerful. Climate change mitigation and adaptation are complex, contested concepts that have spawned a wide range of policies and interventions across the developing world, ranging from infrastructure development, to agricultural extension, to resettlement of populations considered to be at risk of climate-related hazards (Kelman 2010). The flexibility of the mitigation and adaptation paradigms might be considered by some as a sign of the concepts' strengths. However, as pointed out by Hulme (2007), such properties also endow them with a near 'infinite plasticity . . . a malleable envoy enlisted in support of too many rulers' (pp. 9–10). In this issue, Arnall (2013) and Kothari (2013) demonstrate how these processes have come to pass in the cases of Mozambique and the Maldives respectively. The authors show how climate change is being used in their respective countries to validate the re-emergence of past unpopular social policies, some of which might actually exacerbate vulnerability. The focus in both instances is on involuntary resettlement, an intervention that has received growing interest from the international policy community either as a potential climate change adaptation measure or as exemplifying a failure to adapt to climate change (Bogardi and Warner 2008; Warner 2011). However, as the papers demonstrate, resettlement is a deeply political process that raises fundamental questions about state–rural relations, and often results in unequal distribution of costs and benefits among relocated persons.

It is not the intention of this Themed Section to deny the seriousness of contemporary, human-induced climate change, nor the threat that it poses in different regions of the world. Rather, the aim is to demonstrate the multifarious ways in which climate science, as well as the international community that has built up around it, is both a set of political processes in its own right as well as the producer of political impacts in developing countries where its policies take influence, whether these effects are intended by the actors involved or not. This suggests that greater scrutiny of the discursive and political dimensions of mitigation and adaptation activities is required, with more attention being directed towards the policy consequences that governments and donors construct as a result of their framing and rendition of climate change issues. Such an approach will require constant questioning of the underlying epistemological and ethical assumptions underpinning and framing these debates, such as those relating to the ongoing discussion on global environmental change and migration (see Nicholson 2013, this issue). It will also entail development of new methodological approaches, drawing upon ideas such as actor network theory and the concept of 'translation', to understanding climate change's imprecise but contested associated practices (Weisser *et al.* 2013). In this way, we might start to build a richer, more rounded picture of what contemporary climate change is, and what impacts it might have on people's lives, in developed and developing countries.

Acknowledgement

References

Adger W N, Benjaminsen A, Brown K and Svarstad H 2001 Advancing a political ecology of global environmental discourses *Development and Change* 32 681–715

Anon 2010 Closing the Climategate *Nature* 468 345

Arnall A 2014 A climate of control: flooding, displacement and planned resettlement in the Lower Zambezi River valley, Mozambique *The Geographical Journal* 180 141–50

Artur L and Hilhorst D 2011 Everyday realities of climate change adaptation in Mozambique *Global Environmental Change* 22 529–36

Bankoff 2001 Rendering the world unsafe: 'vulnerability' as a Western discourse *Disasters* 25 19–35

Bogardi J and Warner K 2008 Here comes the flood *Nature Reports* 138

Botchway K 2001 Paradox of empowerment: reflections on a case study from northern Ghana *World Development* 29 135–53

Christensen J H, Hewitson B, Busuioc A, Chen A, Gao X, Held I, Jones R, Kolli R K, Kwon W-T, Laprise R, Rueda V M, Mearns L, Menéndez C G, Räisänen J, Rinke A, Sarr A and Whetton P 2007 Regional climate projections in Solomon S, Qin D, Manning M, Chen, Marquis M, Averyt KB, Tignor M and

Miller HL eds *Climate change 2007: the physical science basis. Contribution of Working Group I to the fourth assessment report of the Intergovernmental Panel on Climate Change* Cambridge University Press, Cambridge, UK, and New York, NY 849–926

Cooke B and Kothari U 2001 *Participation: the new tyranny?* Zed Books, London

COP 2009 *Copenhagen Accord* UNFCCC, Copenhagen

Cornwall A and Brock K 2005 What do buzzwords do for development policy? A critical look at 'participation', 'empowerment' and 'poverty reduction' *Third World Quarterly* 26 1043–60

Endfield G H and Nash D J 2002 Drought, desiccation and discourse: missionary correspondence and nineteenth century climate change in central southern Africa *The Geographical Journal* 168 33–47

Escobar A 1997 The making and umaking of the Third World through development in **Rahnema M and Bawtree V** eds *The post development reader* Zed Books, London 85–93

Farbotko C and Lazrus H 2011 The first climate refugees? Contesting global narratives of climate change in Tuvalu *Global Environmental Change* 22 382–90

Featherstone D 2013 The contested politics of climate change and the crisis of neo-liberalisation *ACME: An International E-Journal for Critical Geographies* 12 44–64

Felli R 2013 Managing climate insecurity by ensuring continuous capital accumulation: 'climate refugees' and 'climate migrants' *New Political Economy* 18 337–63

Felli R and Castree N 2012 Commentary: Neoliberalising adaptation to environmental change: foresight or foreclosure? *Environment and Planning A* 44 1–4

Ferguson J 1994 *The anti-politics machine: 'development', depoliticization, and bureaucratic power in Lesotho* University of Minnesota Press, Minneapolis and London

Few R, Brown K and Tompkins E L 2007 Public participation and climate change adaptation: avoiding the illusion of inclusion *Climate Policy* 7 46–59

Foresight: Migration and Global Environmental Change 2011 *Final project report* The Government Office for Science, London

Foucault M 1979 *Discipline and punishment: the birth of the prison* Penguin, Harmondsworth

Furedi, F 2007 The changing meaning of disaster *Area* 39 482–9

Gaillard J C 2010 Vulnerability, capacity and resilience: perspectives for climate and development policy *Journal of International Development* 22 218–32

Hickey S and Mohan G 2005 Towards participation as transformation: critical themes and challenges in **Hickey S and Mohan G** eds *Participation: from tyranny to transformation? Exploring new approaches to participation in development* Zed Books, London 1–24

Hilhorst D 2001 Village experts and development discourse: 'progress' in a Philippine Igorot village *Human Organisation* 60 401–13

Hulme M 2007 Geographical work at the boundaries of climate change *Transactions of the Institute of British Geographers* 33 5–11

Humphreys D 2009 Discourse as ideology: neoliberalism and the limits of international forest policy *Forest Policy and Economics* 11 319–25

IPCC 2007 Summary for policymakers in **Parry M L, Canziani O F, Palutikof J P, van der Linden P J and Hanson C E** eds *Climate change 2007: impacts, adaptation and vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change* Cambridge University Press, Cambridge 7–22

Kelman I 2010 Introduction to climate, disasters and international development *Journal of International Development* 22 208–17

Kelman I 2014 No change from climate change: vulnerability and small island developing states *The Geographical Journal* 180 120–9

Kothari U 2005 Authority and expertise: the professionalisation of international development and the ordering of dissent *Antipode* 37 424–45

Kothari U 2014 Political discourses of climate change and migration: resettlement policies in the Maldives *The Geographical Journal* 180 130–40

Lohmann L 2011 Review Essay: Capital and climate change *Development and Change* 42 649–68

Marino E and Ribot J 2012 Special Issue Introduction: Adding insult to injury: climate change and the inequities of climate intervention *Global Environmental Change* 22 323–8

McNamara K E and Gibson C 2009 'We do not want to leave our land': Pacific ambassadors at the United Nations resist the category of 'climate refugees' *Geoforum* 40 475–83

Mercer J 2010 Disaster risk reduction or climate change adaptation: are we reinventing the wheel? *Journal of International Development* 22 247–64

Nicholson C T M 2014 Climate change and the politics of causal reasoning: the case of climate change and migration *The Geographical Journal* 180 151–60

Sasser J S 2014 The wave of the future? Youth advocacy at the nexus of population and climate change *The Geographical Journal* 180 102–110

Skoglund A and Jensen T 2013 The professionalization of ethics in the Intergovernmental Panel on Climate Change (IPCC): from servant of science to ethical master? *Sustainable Development* 21 122–30

Tanner T and Allouche J 2011 Towards a new political economy of climate change and development *IDS Bulletin* 42 1–15

Warner K 2011 Migration and displacement in the context of adaptation to climate change: developments in the UNFCCC climate negotiations and potential for future action *Migration and Global Environmental Change* Government Office for Science, London

Weisser F, Bollig M, Doevenspeck M and Müller-Mahn D 2014 Translating the 'adaptation to climate change' paradigm: the politics of a travelling idea in Africa *The Geographical Journal* 180 111–9

Wilson G 2006 Beyond the technocrat? The professional expert in development practice *Development and Change* 37 501–23