

## Curriculum Vitae

# Nicholas Brooks

### Position

- *Independent climate change consultant & researcher*
- *Visiting Research Associate, Oxford University, School of Geography and the Environment, South Parks Road, Oxford, OX1 3QY, UK.*
- *Specialist in climate change and international development, climate change and Africa, climate risk assessment, climate change integration/mainstreaming, climate change adaptation, climate change and migration/conflict, and adaptation evaluation, with a background in climate science.*

**Date of Birth:** 16 October 1968  
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### ACADEMIC QUALIFICATIONS

- PhD. Climatic Research Unit, University of East Anglia, Norwich, UK. Thesis title: "Dust-climate interactions in the Sahel-Sahara zone of northern Africa, with particular reference to late twentieth century Sahelian drought", awarded July 2000.
- BSc (Hons.) Geophysics, Class 2.1, University of Edinburgh, UK, awarded July 1993. Included project on homogenisation of temperature records for two stations in Scotland.

### RECENT (POST-DOCTORAL) EMPLOYMENT

- **2005-present: Independent consultant on climate change, development and adaptation** (see below for details of clients and work undertaken) and independent researcher (various aspects of adaptation including past adaptation to rapid and severe climate change; climate change in northern Africa; implications of climate change and adaptation for international development & sustainability).
- **2001-2005: Tyndall Centre for Climate Change Research (University of East Anglia)**, working on various projects and consultancies, including development of national-level indicators of vulnerability and capacity to adapt to climate change, preparation of reports and reviews on various aspects of climate change, conducting own research on past severe and abrupt climate change and human responses in northern Africa and the northern hemisphere sub-tropics.
- **1999-2001: University of Reading, Department of Geography**, working on the *Fezzan Project*. Remote sensing and field survey work to identify indicators of past environmental change, assessment of past environmental and climatic change and synthesis of archaeological and environmental data, fieldwork in Fezzan region of southern Libya.
- **1995-1999: University of East Anglia, Climatic Research Unit and School of Environmental Sciences**. Work on various projects while studying for PhD, including pilot study on potential for dendrochronology for reconstruction of historical rainfall variations in northern Ethiopia (involving fieldwork in Ethiopia with Declan Conway), editing and preparation of graphics for books and reports on climate change, extensive teaching and demonstrating on various subjects in the School of Environmental Sciences (meteorology, oceanography, geomorphology, mathematics, geophysics, surveying, etc).
- **1993-1995: UK Meteorological Office**, Scientific Officer working on Forecasting Ocean Atmosphere Model, including running of model, assessment of output, and presentation of results at conferences. Included attendance of 2-week Meteorology for Graduates course.

## CONSULTANCY WORK

- **African Development Bank (2010-2011)**
  - Lead consultant on development and delivery of three training courses and supporting materials for senior Bank staff on climate change and energy, climate change and agriculture, and climate change and infrastructure. Ongoing, through UEA School of International Development.
  - Preparation of review of climate change issues in Africa, with colleagues from Oxford University, to inform the AfDB's position at COP16 in Cancun, December 2010.
- **Climate Change and Adaptation in Africa Programme (2011-2012)**
  - Mentor in CCAA Technical Expert Network (TEN), established to facilitate the publication of results from CCAA projects in the peer reviewed scientific literature. Funded by the Government of Canada and coordinated by IDRC and IIED. Ongoing.
- **University of East Anglia (UEA) and International Alert (2011)**
  - Expert input to project titled "A strategic approach to climate change in the context of water resource management in the Niger River Basin", consisting of synthesis of scientific information on climate change and variability in the Sahel and links between climate change/variability, livelihoods, migration, conflict and adaptation.
- **Climate and Development Knowledge Network (2011)**
  - Short consultancy input into review of climate change and migration, highlighting knowledge gaps and key areas for research.
- **International Centre for Integrated Mountain Development (ICIMOD) (2011)**
  - Short consultancy reviewing vulnerability framework and vulnerability assessment household survey questionnaire, and making recommendations for improvements to elements of questionnaire addressing exposure to climate change and related hazards.
- **Cardno Emerging Markets Ltd (2011)**
  - Expert input into proposal to the European Commission for provision of a Climate Support Facility to provide technical assistance to the Africa, Caribbean and Pacific (ACP) Secretariat and ACP governments and institutions, under the Global Climate Change Alliance framework.
- **European Commission (EuropeAid) / ADE (2010-2011)**
  - Development of guidance on climate risk assessment for the EC's Guidelines on the Integration of Environment and Climate Change into Development Cooperation (ongoing)
  - Enhancement of climate change content in Introduction to Environmental Integration and Environmental Integration Tools and Methods training courses, and delivery of content to EuropeAid staff in Brussels. Part of Aid Delivery Methods (ADM) project.
  - Design and delivery of one-day course on Climate Risk Assessment for EuropeAid (recurrent).
- **UK Department for International Development (DFID) (2009-2011)**
  - Development of results framework for evaluating adaptation: participation in 2-day workshop, preparation of report and discussion paper, pending further work on development of framework and testing in selected pilot countries. Ongoing.
  - Climate change screening of DFID Rwanda's Portfolio of Programmes and Projects, October-November 2010.
  - Climate change screening of DFID Tanzania's Portfolio of Programmes and Projects, and development of screening methodology and methodology for screening of Budget Support, May-July 2010.

*Organisation and delivery of various climate change training courses and events, including*

  - Series of presentations on climate change and significant input into 3-day programme on climate change for Climate and Environment (with Livelihoods) Advisers' Retreat at Abercrombie House, East Kilbride, October 2010. Assessment of climate change learning and training needs and feedback to Climate and Environment Group.
  - Presentation and informal consultations with DFID staff at Abercrombie House, 28 April 2010.
  - Half-day seminar on climate science-policy linkages and media controversies over UEA "climategate" email affair and criticisms of IPCC, with input from Tyndall Centre and Oxford University, for Climate and Environment Group at DFID HQ in London.
  - 3-day course on climate change at DFID HQ, including sessions on climate change science, adaptation, mitigation, economics of climate change.
  - 3-day climate change course for Environment Advisers' annual retreat, covering similar topics to the general course above, but in greater depth & with wider range of speakers from within & outside the UK.

- 1-day course on climate change science, economics & adaptation for Social Development Advisers annual retreat, with input from the Smith School and IDS. Delivery of additional lecture on climate change, migration and conflict.
- **United Nations Development Programme (UNDP) (2002-2011)**
  - Development of UNDP's *Climate Change Safeguards* (climate change mainstreaming) and Environmental Assessment guidance, involving development of climate change project screening guidance, and integration of guidance on climate risk assessment into existing draft *Guidance Note on Implementation of Environmental Assessment for UNDP Projects* (ongoing).
  - Development of indicator-based risk profiles combining considerations of exposure to climate change hazards and underlying socio-economic and environmental vulnerability, at the national level, for the Arab States and sub-Saharan Africa regions (ongoing).
  - Preparation of review of climate change and migration issues (2010).
  - Development of UNDP's *Quality Standards for Adaptation* (2008-2009)
  - Development of Advisory Note on integration of climate change adaptation into strategic environmental assessment (2008-09)
  - Climate change risk screening of UN Country Programme in Cape Verde (2008)
  - Provision of adaptation training for UNDP-GEF staff at Nov. 2006 workshop, Columbia University, and other training for UNDP Senior Managers at regional training workshops in Bangkok, Cairo, Lima, Windhoek, and Bratislava (2007-08).
  - Leading role in development of *Thematic Areas on Adaptation*, including assessments of relevant developmental baseline issues, key climate change risks & vulnerabilities, and potential adaptation needs, strategies and options at regional scales for Agriculture & Food Security, Water Resources, Public Health, Disaster Risk Management, Coastal Development, Natural Resources (2007-08)
  - Leading role in development of UNDP's Monitoring and Evaluation Framework for Adaptation (2007-08).
  - Development of adaptation initial project proposal (PIF) for the coastal sector in Mauritius (2007).
  - Formulation of adaptation project development guidelines (2005-06).
  - Provision of guidance for *Adaptation to Climate and Coastal Change in West Africa* project, including field visits and facilitation at stakeholder meeting (2005-2006).
  - Lead author of technical paper and member of expert group for development of UNDP-GEF *Adaptation Policy Framework* (APF) (2002-2005).
- **University of East Anglia (Overseas Development Group, DEV) (2008-2011)**
  - Major role in preparation and delivery of training for "Climate Change and International Development" courses in September 2008, September 2009, and September 2010, including leading sessions on climate change risks to development outcomes, climate risk assessment, adaptation initiatives, and climate finance, plus development and facilitation of exercises on climate risk screening, scoping and identification of potential adaptation measures. Confirmed participation in future courses.
  - Provision of training for DFID Climate and Environment Advisers during Adaptation Reading Week held at University of East Anglia and organised by Overseas Development Group (2008).
- **Tractebel Engineering (2009-2010)**
  - Climate Change Study for Red Sea – Dead Sea Water Conveyor, climate risk assessment examining potential climate change implications for construction, design, operation and impacts of proposed water conveyor to transport water from Red Sea to Dead Sea in order to raise level of the latter and provide desalinated water for Jordan, Israel and the Palestinian Territories. Part of a wider feasibility study funded by the World Bank.
- **World Bank (2008-2009)**
  - Member of Expert Group on Pilot Programme on Climate Resilience (part of Climate Investment Funds), designing methodology for country selection, regional analysis for country identification (including supplementary report on Middle East and North Africa) and reporting to sub-committee (see <http://www.climateinvestmentfunds.org/cif/keydocuments/PPCR>).
  - Short consultancy on climate change implications for Bank support for Kenya Vision 2030 plan.
- **UK Home Office (2009)**
  - Short consultancy on climate change and migration with Tyndall Centre
- **German Advisory Council on Global Change (2006)**
  - Preparation of commissioned expert study on "Sea-Level Rise: Coastal Impacts and Responses" for Special Report: *The Future Oceans: Warming Up, Rising High, Turning Sour*.
- **World Initiative on Sustainable Pastoralism / World Conservation Union (IUCN) (2006)**

- Preparation of discussion paper on *Climate Change, Drought and Pastoralism in the Sahel* for the at the request of UNDP-GEF.
- **Tyndall Centre for Climate Change Research (2005)**
  - Preparation of state-of-the-art review of climate change science for commercial clients on behalf of Professor John Schellnhuber, Research Director of Tyndall Centre.
- **UK Department of Environment, Food and Rural Affairs (2004)**
  - Preparation of briefing paper on stabilisation of atmospheric greenhouse gases and global temperatures with respect to Article 2 of the UN Framework Convention on Climate Change in preparation for “Avoiding Dangerous Climate Change” conference in Exeter, UK, February 2005.
- **UK Economic and Social Research Council (2004)**
  - Commissioned paper on climate change and variability in the Sahel-Saharan region.

## OTHER INFORMATION

- Contributing author to IPCC Fourth Assessment Report, Working Group II, Chapter 9 (Africa).
- Widespread work-related travel for fieldwork, project preparation, workshops and delivery of training on climate change science, impacts and adaptation. Fieldwork in Western Sahara, Libya, Ethiopia, Tunisia, Mauritania. In-country work on climate change adaptation in Cape Verde, Gambia and Mauritius. Work-related travel (consultations, meetings, research, conferences, delivery of training courses) to Algeria, Belgium, Canada, Cuba, France, Germany, Ghana, India, Namibia, Peru, Senegal, Slovakia, Spain, Tanzania, Thailand, USA.
- Regular participation conferences, workshops, seminars in the UK and overseas as invited or keynote speaker, on topics related to climate change, international development, sustainability and risk, with frequent emphasis on climate change and Africa.
- Moderate spoken and written French; basic written and spoken Arabic.

## SELECTED PUBLICATIONS

- Brooks, N., Anderson, S., Ayers, J., Burton, I. and Tellam, I. 2011 *Tracking Adaptation and Measuring Development*. IIED Working Paper (forthcoming). IIED, London/Edinburgh
- Heyd, T. and Brooks, N. (eds.) 2010. *Cultural Dimensions of Climate Change*. Special issue of *Human Ecology Review*, Volume 17, Number 2, Winter 2010.
- Brooks, N. 2010. Human responses to climatically-driven landscape change and resource scarcity: Learning from the past and planning for the future. In I. P. Martini and W. Chesworth (eds.) *Landscapes and Societies: Selected Cases*, pp. 43-66. Springer, Dordrecht, Heidelberg, London, New York, 478 pp.
- Brooks, N., Brown, K. and Grist, N. 2009. Development Futures in the Context of Climate Change: challenging the present and learning from the past. *Development Policy Review* 27, 741-765.
- Frankel-Reed, J. Brooks, N., Kurukulasuriya, P. and Lim, B. 2009. A Framework for Evaluating Adaptation to Climate Change. In R. Van Den Berg and O N. Feinstein (eds.) *Evaluating Climate Change and Development*. Transaction Publishers, New Brunswick, New Jersey.
- Heyd, T. and Brooks, N. 2009. Exploring cultural dimensions to climate change. In W.N. Adger, I. Lorenzoni and K. O'Brien (eds.) *Adapting to Climate Change: Thresholds, Values and Governance*, pp. 269-282. Cambridge University Press.
- Risse, N. and Brooks, N. 2008. Strategic Environmental Assessment and Adaptation to Climate Change. DAC Network on Environment and Development Cooperation. OECD.
- Contributing author to: Boko, M., I. Niang, A. Nyong, C. et al., 2007: Africa. Climate Change 2007: Impacts, Adaptation and Vulnerability. Contribution of Working Group II to the Fourth Assessment Report of the Intergovernmental Panel on Climate Change, M.L. Parry, O.F. Canziani, J.P. Palutikof, P.J. van der Linden and C.E. Hanson, Eds., Cambridge University Press, Cambridge UK, 433-467.
- Brooks, N., Nicholls R. and Hall, J. 2006. Sea Level Rise: Coastal Impacts and Responses. Commissioned Expert's Study for German Advisory Council on Global Change (WBGU): Schubert, R., Schellnhuber, H-J., Buchmann, N., Epiney, A., Griebshammer, R., Kulesa, M., Messner, D., Rahmstorf, S. and Schmid, J. *The Future Oceans - Warming Up, Rising High, Turning Sour*. WBGU, Berlin, 2006, 110 pages.
- Brooks, N. 2006. *Climate change, drought and pastoralism in the Sahel*. Discussion note for the World Initiative on Sustainable Pastoralism, IUCN.
- Brooks, N. 2006. Cultural responses to aridity and increased social complexity in the Middle Holocene. *Quaternary International* 151, 29-49.
- Brooks, N., Adger, W. N. and Kelly, M. 2005. The determinants of vulnerability and adaptive capacity at the national level and the implications for adaptation. In Adger, W. N., Arnell, N. and Tompkins, E. L. (Eds.) *Global Environmental Change Part A* 15, 151-162.
- Brooks, N. and Adger, W. N. 2005. Assessing and enhancing adaptive capacity. In B. Lim and E. Spanger-Siegrfried (Eds.)

- Adaptation Policy Frameworks for Climate Change: Developing Strategies, Policies and Measures*, pp 165-181. UNDP-GEF. Cambridge University Press.
- Brooks, N., Di Lernia, S., Drake, N., Chiapello, I., Legrand, M., Moulin, C. and Prospero, J. 2005. The environment-society nexus in the Sahara from prehistoric times to the present day. *The Journal of North African Studies* 304, 253-292.
- Jickells, T. D., An Z. S., Andersen, K. K., Baker, A. R., Bergametti, G., Brooks, N., Cao J.J., Boyd, P. W., Duce, R. A., Hunter, K. A., Kawahata, H., Kubilay, N., La Roche, J., Liss, P. S., Mahowald, N., Prospero, J. M., Ridgwell, A. J., Tegen, I. Torres, R. 2005. Global Iron Connections: Desert Dust, Ocean Biogeochemistry and Climate. *Science* 307, 67-71.
- Brooks, N. 2004. Drought in the African Sahel: long-term perspectives and future prospects. Tyndall Working Paper No. 61.
- Adger W. N., Brooks, N., Kelly, M., Bentham, S. and Eriksen, S. 2004. *New indicators of vulnerability and adaptive capacity*, Tyndall Centre Technical Report 7.
- Brooks, N. 2003. *Vulnerability, risk and adaptation: A conceptual framework*. Tyndall Centre Working Paper No. 38. Available at: [www.tyndall.ac.uk](http://www.tyndall.ac.uk)
- White, K., Brooks, N., Drake, N., Charlton, M. and MacLaren, S. 2003. Monitoring vegetation change in desert oases by remote sensing; a case study in the Libyan Fazzan, *Libyan Studies* 34, 153-166.
- Adger, N. and Brooks, N. 2002. Does global environmental change cause vulnerability to natural disaster? In M. Pelling (Ed.) *Natural Disasters and Development in a Globalizing World*, pp 19-42. Routledge, London.