



Name: *Prof/Dr Jackie King*

Current Appointment: *Owner of Water Matters - international consultancy in management of inland water ecosystems*

E-mail: jackie.king@watermatters.co.za

Area of Research/Teaching

Inland water ecosystems, focusing mainly on the holistic understanding and management of river flow regimes.

Biography

Jackie King lives and works in Cape Town, South Africa. She was a researcher at the University of Cape Town for almost four decades, but now owns and runs Water Matters, a water-resource consultancy specialising in river flow management. She is an aquatic ecologist with 40 years' experience of ecological research on the rivers of southern Africa. For the last 25 years she has specialised in developing and applying methods for assessing the water requirements to sustain river ecosystems (Environmental Flows). She led the early development of such methods for South Africa, which resulted in their inclusion in the country's 1998 National Water Act, before starting to work internationally in 1997.

She frequently speaks as a keynote or invited speaker at international conferences, and has more than 100 refereed items in books, international journals and conference proceedings. From 1997 to date she has been contracted to lead scientific teams working on environmental flows and river system management for the Senqu River, Lesotho; the Pungwe River, Zimbabwe; parts of the Zambezi Basin; the Blue Nile, Ethiopia; the lower Mekong River system (Cambodia, Lao PDR, Thailand and Viet Nam); the Pangani Basin, Tanzania; the Okavango River system (Angola, Namibia, Botswana); and the headwaters of the Indus River system in Pakistan. She has also been contracted to do work of a similar nature for World Fish and the World Commission on Dams, and in Taiwan, Costa Rica, USA, Guatemala, Australia, Mozambique, and the UK.

In 2011 she edited (and largely wrote) the book *Sustainable use of South Africa's inland waters*, with co-editor Harrison Pienaar, which comprises a major situation assessment of the environmental protection measures for inland waters in South Africa's 1998 National Water Act. From 2009 to 2014 she acted as scientific advisor to the Government of Pakistan in a dispute with India over the Kishenganga Dam in the Himalayas, and in this respect served as an expert witness at the International Court of Arbitration at The Hague in August 2012. In 2012 she completed for WWF a plan for setting and implementing Environmental Flows for the complete Zambezi basin and applied part of that plan to the Kafue Basin in Zambia in 2014. She is presently acting as Project Leader and Technical Advisor to WWF for Integrated Flow Assessments for two important and charismatic tributaries of the Zambezi: the Kafue and Luangwa Rivers; leading the

ecological module of a World Bank investment analysis of the Okavango Basin; and is one of four authors writing a Good Practice Note for the World Bank on appropriate application of Environmental Flows in hydropower dam planning.

In recent years she has also added the focus of re-writing the scientific knowledge gleaned in her projects into user-friendly, accessible language for stakeholders and decision makers. Her contributions have included writing and acting as scientific advisor for: State of the Basin Report and the Future of the Basin Report for the Pangani River system in Tanzania (IUCN 2011); chapter author of an introductory guide to environmental flows for countries wishing to start to use this approach in water-resource management (*Environmental flows: the essentials* (IUCN 2003); communication materials for schoolchildren on the Okavango Flows Assessment (OKACOM 2014); and development of knowledge management products for stakeholders in the project Mainstreaming Climate Change in southern Africa (SADC 2015).

Her work in South Africa was recognised in the 1990s with a Silver Medal from the Southern African Society of Aquatic Scientists and in 2003 through the government awarding her the national Women in Water award. In 2010 she was appointed as an inaugural member of the National Water Advisory Council to advise the South African Minister of Water Affairs. In 2012 she was appointed Extraordinary Professor at the University of the Western Cape, Cape Town.

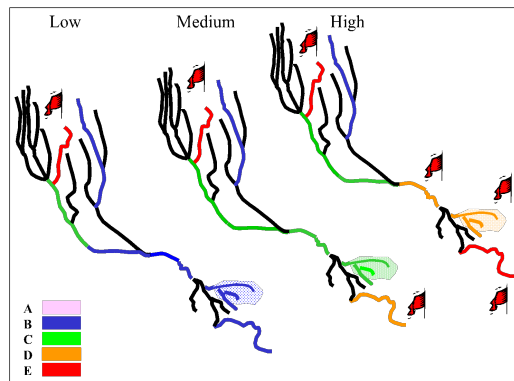
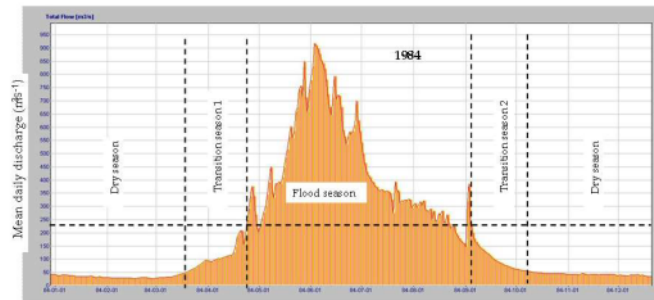
Jackie King

Aquatic ecologist PhD 1983

40 years research on African rivers



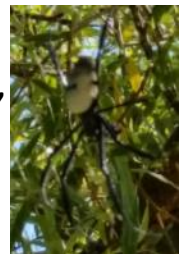
Specialising in Environmental Flows for rivers



>30 postgrads
>30 international keynote
>100 peer reviewed papers
and book chapters



Personal:
Hiking on Table Mountain,
gardening, family,
South African National
Parks Honorary Ranger



Major recent projects – all as project leader

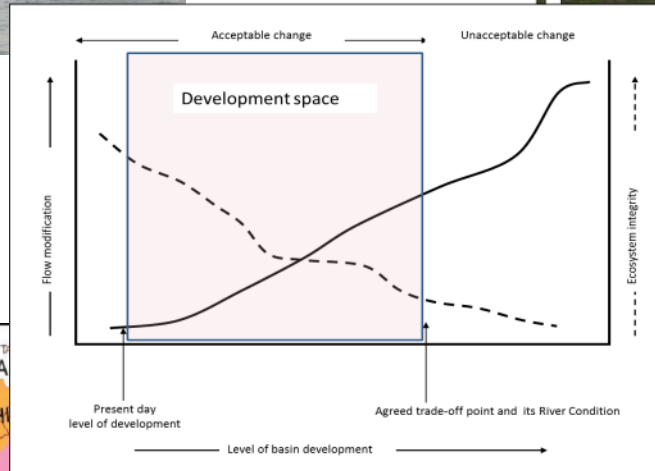
Mekong 2001-07: World Bank and then Mekong River Commission advisor

Okavango 2008-10: 41 member, 4-country team for EFA of Okavango River system.

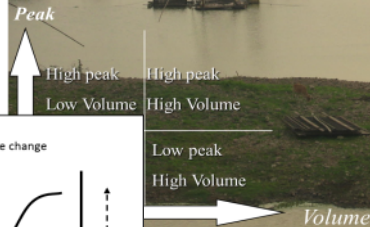


Mapping the future

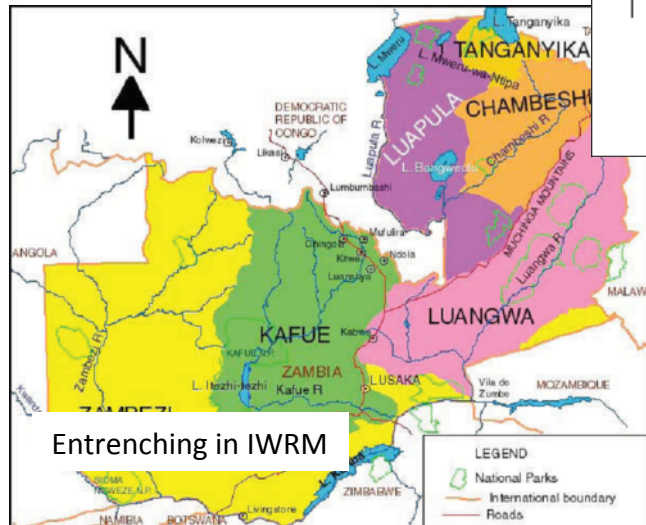
The concept of Development Space



Describing the flood season

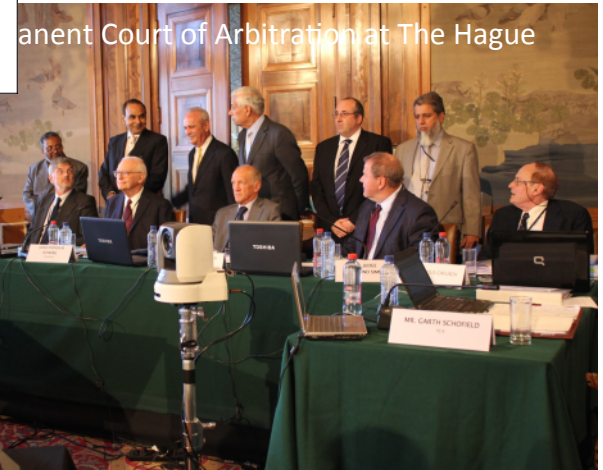


Zambezi 2012 ongoing: setting EFlows for Zambia



Entrenching in IWRM

Pakistan 2009-15: Scientific Advisor to government in conflict with India



Permanent Court of Arbitration at The Hague