

Water in Africa: Hydro-Pessimism or Hydro-Optimism?

Água em África: Hidro-pessimismo ou Hidro-optimismo

Centro de Estudos Africanos da Universidade do Porto Porto, Portugal, 2-3 October 2008

Water in Africa: Hydro-Pessimism or Hydro-Optimism?

Center of African Studies, Porto, Portugal, 2-3 October 2008

"From Hydro-Pessimism to Hydro-Optimism in Southern Africa Water Resource Management: challenging the *Hydropolitical Risk* at work".

Agathe MAUPIN

Ph.D Student
University of BORDEAUX 3, FRANCE
Laboratory ADES-DYMSET, LGPA

(+33) 663 592 504

agathe.maupin@gmail.com

Where does the *Hydropolitical Risk* come from?

- Comparing French and English speaking Research on Water Resource.
- The *Hydropolitical Risk* could be defined as a potential link between both French and English concerns of improving Water Resource Management.
- Is there any possibility of a long lasting Southern Africa Water Resource Management?

I. Once upon a time there was the *Hydropolitical Risk...*

A. Old sad couples: nature/culture, natural hazard/vulnerability...when will the divorce be pronounced?

B. Connecting People and Risks...

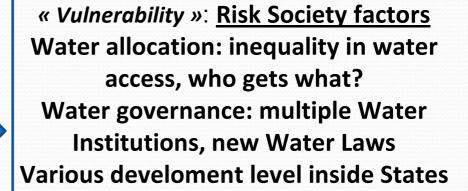
Former identified as
« natural hazards »

Environmental factors

Low rainfall→scarcity

Cyclones→floods

Upstream/downstream
flow relation





Hydropolitical Risk



Sharing Water factors

Water allocation between States
Various development level between States
Political instability
Multiple Water Institutions

II. Identifying for improving, a first alternative?

- A. The Southern Africa Hydropolitical Complex and the High Hydropolitical Risk Profile: which potential interactions?
- B. Identifying *Hydropolitical Risk*s in the Southern African context.

C. Developing alternatives in Water Resource Management, a long swim to Freedom... The Southern African hydropolitical complex as encapsulated in the first hypothesis

The Southern
African
Hydropolitical
Complex

	The same	International river basin								
	Pivotal basins		Impacted basins							
Riparian state	Orange	Limpopo	Okavango	Cunene	Incomati	Maputo	Pungué	Save	Zambezi	
Namibia Botswana South Africa Zimbabwe	PS SC PS	PS PS PS	PS PS	PS	PS	PS	PS	PS	PS PS	
Angola Mozambique Swaziland		IS	IS	IS	IS IS	IS IS	IS	IS	IS IS	
Lesotho Zambia Malawi Tanzania	IS		- x						IS IS IS	

Source: Turton, 2002b; 2003c

Cyclones Connie,
Eline, Gloria
from february to
march 2000
Limpopo major
floods



Mozambican Civil War 1977-1992: resulting in lack of cyclones alert, management.

New government, new State, first phases of rebuilding: lack of infrastructures, lack of roads...



Hydropolitical Risk → Hydropolitical Disaster



Transboundary River: the Limpopo with Mozambique as the downstream riparian Intervention of South Africa: air intervention to help people locked by floods: lack of training of the State and Civil Society in case of major floods.

Effects of the *a posteriori* identification of Hydropolitical Risk: creation of the LIMCOM, implementation of meteorological survey...

Identifying Hydropolitical Risks = putting the lack of connections in Water Resource Management Institutions in foreground.

- Improving Water Resource Management = Taking all Water Resource Management levels in Southern Africa into account
- It seems necessary to sort out the numerous Water Institutions

BLAIKIE, P. and al. 1994. At risk-natural hazards, people's vulnerability and disasters. Routledge, London, 284p.

BRYANT, E. 1991. Natural hazards. Cambridge Univ. Press, 294p.

BURTON, I. KATES, RW., WHITE, GF. 1978. *The environment as hazard*. Oxford Univ. Press., Now-York. 240p.

CANNON, T. 1994. "Vulnerability analysis and the explanation of "natural" disasters ", in VARLEY, A. ed., Disasters, development and environment. J.Wiley and sons. 167p.

FRAMPTON, S. et al. 1996. *Natural hazards: causes, consequences and management*. Hodder et Stoughton Educational, London. 126p.

HEWITT, K. 1997. Regions of risk: geographical introduction to disasters. Longman, Londres, 388p.

PIGEON, 2005, Géographie critique des risques. Economica, Paris. 200p.

TOBIN, GA., MONTZ, BE., 1997. Natural hazards-explanation and integration. Guilford Press, London. 388p.

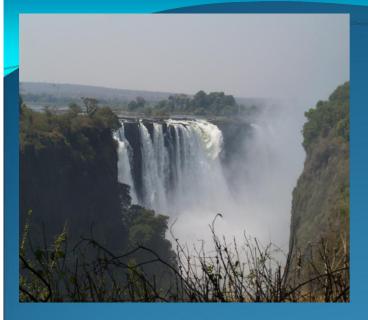
TURTON, AR. 1999. "Water scarcity and social adaptive capacity: towards an understanding of the social dynamics of water demand management in developing countries". MEWREW Occasional Paper, n°9, SOAS, London.

TURTON, AR. 2002. *Hydropolitics in the developing world. A Southern African perspective.* AWIRU, Pretoria.

TURTON, AR. 2005. A Critical Assessment of the Basins at Risk in the Southern African Hydropolitical Complex. CSIR Report, Pretoria.

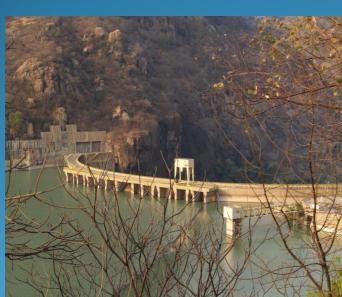
ZEITOUN, M.; ALLAN, JA. 2008. "Applying hegemony and power theory to transboundary water analysis". Water Policy.

ZEITOUN, M.; MIRUMACHI, N. 2008. "Transboundary Water Interaction Nexus: reconsidering conflict and













Thank you!