



icta 🌔

Departament de Geografia

Exploring the hydrosocial cycle in tourist areas

David Saurí Grup de Recerca en Aigua, Territori i Sostenibilitat Departament de Geografia i ICTA Universitat Autònoma de Barcelona <u>David.sauri@uab.cat</u>

Outline

- The water cycle: from the "natural" to the "social"
- The hydrosocial cycle concept
- The hydrosocial cycle in tourism: opportunities and challenges
- Conclusion



https://geofreekz.wordpress.com/the-hydrosphere/

Human appropriation of the hydrological cycle



Fig. 2. Flow diagram of analysis of human appropriation of RFWS_{land}. The final box shows human appropriation of estimated accessible RFWS_{land} to be 30% (24,980 km³/82,100 km³) and human appropriation of total RFWS_{land} to be 23% (24,980 km³/110,300 km³).

Postel et al 1996

786

SCIENCE • VOL. 271 • 9 FEBRUARY 1996

Water flows and compartments: the human intervention



©2014 SBC Energy Institute. Permission is hereby granted to reproduce and distribute copies of this work for personal or nonprofit educational purposes. Any copy or extract has to refer to the copyright of SBC Energy Institute

SBD Energy Institute 2014



Figura 1: El flux de l'aigua a Barcelona, 1995.

Prat, 1998

The HSC: Main features

Dialectical relation between water and society or intervention s in the hydrologic cycle brings changes in society and vice-versa:

Intervention in the hydrologic cycle: product of social structures and geometries of power.

At the same time, water produces political and social effects as well



Ely, in Linton and Budds, 2013

THE RECONFIGURATION OF THE "HYDROSOCIAL" CYCLE IN BARCELONA AFTER 2012

Water supply and sanitation, currently



March and Sauri, 2014

Tourism and the environment: critical perspectives

Focus on the developing world

Tourism linked to broader processes of globalization

Tourism impacts usually conceptualized in terms of Inequality (i.e, in access to resources or vulenrability to hazards)

Contradictions of certain tourist forms: eg: "ecological tourism"



Water and tourism: changing hydrosocial cycles

- Disparities of access between locals and tourists in terms of quantity and quality
- Development of water resources geared towards tourism to the detriment of other economic options (irrigated agriculture)
- Increasing presence of "alien" flows (bottled water, virtual water) with their own impacts and costs (eg waste disposal facilities, etc)

However,....

- Tendency to treat tourism as an undifferentiated activity and, therefore, failure to recognize the multiple forms and typologies of tourism which are continuously changing and expanding. For example, water consumption in villas with gardens and swimming pools may be four or five times higher than in campsites (Rico et al 2009)
- Little attentive to more subtle forms of inequities: for example: expansion of desalination to cover for increasing scarcities in areas of competition between agriculture and urban/tourist uses unravels the inability to pay for these new flows by farmers and also by the less well off in urban areas.
- Also, more attention needed to the water-energy nexus in tourist areas and its relation to power structures: who controls water ands who controls energy?

Conclusion

-The Hydrosocial concept useful to examine the physical, economic and social dimensions of water metabolism in cities including large tourist resorts

-Critical approaches (eg political ecology) need to be more attentive to the multiple forms of tourism each one with specific characteristics and patterns of consumption of water resources

-Focus on the developing world needs to be accompanied with more studies in the developed world where more subtle and nuanced inequities in access to water may be present.

THANKS FOR YOUR ATTENTION!!!