

Towards a Framework for a Transatlantic Dialog on Water: What Role for The University of Arizona?

Partner scientific progress - University of Seville Team

University of Arizona-Tucson, November 11, 2014



Main activities five months:

- ▶ Following up on International Conference on Water Information and Knowledge in the Networked Society.
- ▶ Participation in Wednesday virtual meetings.
- ▶ Participation in TAMA case study progress.
- ▶ Development of WP4 deliverables and tasks
- ▶ Dissemination of results



Seville June 20014 International Conference following up

- ▶ Water Alternatives Special Issue
 - ▶ November 15th deadline for full paper submittal: 14 contributions originally accepted
 - ▶ Preparing introductory paper to the special issue (USE team)
 - ▶ Preparing one submission for special issue (Nuria, Violeta, Leandro and outside contributor) on the role of ICTs as an instrument for participation and empowerment of water-related social networks.
- ▶ Conference conclusions to be published in a Spanish journal (Natalia and USE team)
- ▶ Conference note to be published in different outlets of the open data networks (Violeta and USE team)



University of Seville Team members specific scientific progress



Factors explaining urban household water consumption: Research stay at UMI (2012)

- ▶ **MARIA VILLARIN : finishing her thesis, forseen defen janueary 2015**
- ▶ Substantial **decrease in domestic water consumption** in Seville sincemid 1990s. Public policy success story. Why?
- ▶ The study divides the city of Seville in 522 census tracts and looks at the influence of potential explanatory variables: territorial characteristics (urban design, age, and type of housing), demographic characteristics (population dynamics, household size, age) and indicators indicators (gross population, net population, ageing ratio).
- ▶ Results have proven inconclusive and more sophisticated statistical analysis are underway (correlation analysis, factor analysis and regression analysis).
- ▶ BUT some preliminary observations:
 - ▶ Importance of spatial differences and contrasts → utility of **microscale studies**.
 - ▶ Explanatory relevance of specific variables: density and buildings conservation state.



Violeta Cabello

Research stay November 2014 – March 2015

- Working with Nuria Hernandez-Mora, Aleix Serrat and Ed Curley on Tucson basin case study: “*Water use and banking in the Tucson basin: Implications for biodiversity conservation*”
- Contribute to students group meetings & interdisciplinary work, mapping research links
- Working on the 3rd paper for my thesis: “*The water management problem: narratives in arid South-East Spain*”
- Contribute to introduction for Water Alternatives Special Issue on *Data, information and Knowledge for water governance in the networked society*



Nuria Hernández-Mora

Work plan November 2014 - April 2015

- Contribute to introduction for Water Alternatives Special Issue on *Data, information and Knowledge for water governance in the networked society*
- TAMA case study: Continue working with Violeta Cabello, Aleix Serrat and Ed Curley on TAMA paper: “*Water use and banking in the Tucson basin: Implications for biodiversity conservation*”
- Work on Deliverable 3.2: “*Evaluation of the WFD implementation process in Europe*”



Natalia Limones

Plans from November 2014

- Contribute to introduction for Water Alternatives Special Issue
- **TAMA case study:** Tucson GW dynamics. How is it affected by natural drought?".
- Continue working with Aleix Serrat on “**COUPLING LONG TERM CLIMATIC DATASETS AND NEAR REAL-TIME QUASI-GLOBAL PRECIPITATION PRODUCTS IN ÁFRICA**”
- Work on TBCS / OHMI studies and some other ongoing papers (on droughts).



Sergio SEGURA

PhD Student on Geography (University of Seville)

Thesis title: Evaluation and monitoring mechanisms in spatial planning

- Working on Pima County and Tucson comprehensive planning case study. Also finding links between Spatial and Water planning in Pima County.
- Participation in Wednesday meetings. The students working paper.
- Now:
 - Working on Tucson Basin Case Study about evaluation and monitoring processes in urban comprehensive planning and its relations with water planning in the SWAN context (Tucson Case Study Publication Proposal)
- Future?:
 - Spatial planning and Water planning, territorial governance, evaluation and monitoring processes, public participation, ...

Introducing Alba Ballester

Research

Main issues

- Analysis of social movements related to water conflicts.
- Analysis of water public policies and public participation processes.
- Risk governance, natural hazards management and prevention policies, social capacity building.

Theoretical approach and methodology

- Governance, risk society, resilience, vulnerability, social capital.
- Participatory action research.
- Qualitative and quantitative methods

Interests

Natural hazards management, water management, social innovation, social involvement in environmental issues, social autonomy, management of commons.



Introducing Alba Ballester

Research stay November 2014 – March 2015

- Working on Tucson basin case study: “***Public involvement in water management at Tucson Water Area (TB&TAMA)***”
- Working on my Phd: “***Public participation and social capacity building regarding floods risk and prevention policies in Ebro river basin***”
- Working on a comparative analysis of public participation between Ebro basin and Tucson basin.



Dissemination

(Noche de la ciencia) The Night of Researcher, Virectorate of Research, USE, diffusion activity in the Main Square of the city

Third SWAN USE team Newsletter

Several publications by members from University of Seville SWAN team .



June 2014 Conference in Seville and WA Special Issue

- Conference conclusions to be published in a Spanish journal (Natalia and USE team)
- Conference note to be published in different outlets of the open data networks (Violeta and USE team)
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José Ignacio Álvarez- Francoso, Juan Mariano Camarillo-Naranjo, Natalia Limones-Rodríguez, María Fernanda Pita-López «**GLOBALCLIMATEMONITOR.ORG: UNA HERRAMIENTA DE ACCESO A DATOS CLIMÁTICOS GLOBALES**» under review at *GEOFOCUS*.

Juan Mariano Camarillo-Naranjo, Natalia Limones-Rodríguez, José Ignacio Álvarez- Francoso, María Fernanda Pita-López “**FROM CLIMATE DATA HANDLING TO CLIMATE KNOWLEDGE DISSEMINATION: DESIGNING AND ASSESSING A GLOBAL CLIMATE MONITOR**” under review at *APPLIED GEOGRAPHY*.

Natalia Limones-Rodríguez,, María Fernanda Pita-López (2014). «**LA RESPUESTA DE LA SEQUÍA HIDROLÓGICA A LA SEQUÍA PLUVIOMÉTRICA EN LAS CUENCAS MEDITERRÁNEAS ESPAÑOLAS**», *Cambio Climático y Cambio Global*, Publicaciones de la Asociación Española de Climatología (AEC), Serie A, nº 8. ISBN: 978-84-695-4331-3.

Juan Mariano Camarillo-Naranjo, José Ignacio Álvarez- Francoso, Natalia Limones-Rodríguez,, María Fernanda Pita-López (2014). «**LA INFORMACION CLIMATICA A ESCALA GLOBAL: DEL DATO A LA DIFUSION DEL CONOCIMIENTO**», *Cambio Climático y Cambio Global*, Publicaciones de la Asociación Española de Climatología (AEC), Serie A,. ISBN: 978-84-695-4331-3.

Nuria Hernández-Mora, “*Dysfunctionalities of the Spanish experience with water markets for the allocation of water resources*” under review at GEOFORUM

Nuria Hernández-Mora, Violeta Cabello, Lucia de Stefano and Leandro del Moral *Information and communication technologies for open water governance: Potential for transformation of existing power structures for water management in Spain*” abstract accepted at Water Alternatives. Paper due November 15th. Co-authored with



Thank you for your attention

University of Seville SWAN Team

