LIST OF OUTPUTS

Resulting from

MOVING FORWARD
Adaptation and Resilience to Climate Change, Drought, and Water Demand in the Urbanizing Southwestern United States and Northern Mexico

Supported by the National Oceanic and Atmospheric Administration
Sectoral Applications Research Program
NOAA/SARP Award # NA08OAR4310704
(2008-2010, with one-year no-cost extension to 6/30/2011)

and

INFORMATION FLOWS AND POLICY
Use of Climate Diagnostics and Cyclone Prediction for Adaptive Water-Resources Management Under Climatic Uncertainty in Western North America

Supported by the Inter-American Institute for Global Change Research
Small Grants Program for the Human Dimensions
IAI Project # SGP HD 005 (2007-2009; 2010-2011)

And

University of Arizona (UA)

July 2011

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Jamie McEvoy (UA, Geography), Kate Sammler (UA, Atmospheric Sciences),
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PUBLICATIONS

2011 - In Progress

de Raga, G., C.A. Scott, R.G. Varady, B. Luckman, F. Meza, E. Montaña. Author-team comprising multiple IAI project PIs (led. In preparation. Climate risk and water security in the Americas. For submission to Ambio, or Environment.


Kumar, M.D., C.A. Scott, O.P. Singh. Submitted, in review. Inducing the shift from flat-rate or free agricultural power to metered supply: Implications for groundwater depletion and power sector viability in India. *Journal of Hydrology.*


2011 - Forthcoming


Pineda Pablos, N., y H. Briseño Ramírez. 2011, en proceso. “¿Por qué son mejores los organismos de agua de Baja California que los de Sonora? Instituciones locales y desempeño de los organismos públicos.” Región y Sociedad.


In print

2011


2010


**2009**


2008


2007


**PRESENTATIONS & PARTICIPATION**


Browning-Aiken, A. 2007 Retos para implementar planeación hidrológica transfronteriza: Cambios de políticas recientes, regímenes de gestión, y practicas institucionales en EEUU y México. WWF4 FT 2.33 Advancing Local Actions in Basins, sub-Basins and Aquifers through Comprehensive IWRM Learning and Global Networks. 4th World Water Forum. Mexico City, Mexico. 16-22 March.


Farfán, L.M. 2011 Tropical Cyclone Impacts Over the Baja California Peninsula. NWS Virtual Border Conference. El Paso, TX, 10 March.


Garfin, G. 2011 “Impacts of Climate Change in the Southwestern U.S.” at The Arctic is Melting and the Desert is Burning: Impacts Globally and Locally (sponsored by Clean Air-Cool Planet, Avalon Trust, and Ambassador of Norway to the United States, His Excellency Wegger Chr. Strommen), February 9, 2011, Santa Fe, NM.


Garfin, G. 2009 “A Perspective on Applied Water Resources Research for Use by Decision Makers: The Case of Drought in Semiarid North America” at Water Resources in Developing Countries: Planning and Management in a Climate Change Scenario. Abdus Salam International Center for Theoretical Physics, Trieste, Italy. 29 April 2009. (invited)


Scott, C.A. 2011. Water resources and institutions in arid lands (series of four lecture/discussion sessions), *The arid and semiarid lands (ARL 564)*, University of Arizona, April 4, 6, 11, 13, 2011.


Scott, C.A. 2009. Fortaleciendo el diálogo entre científicos-investigadores y gerentes-tomadores de decisión (Strengthening dialogue between scientist-researchers and manager-decisionmakers). III Taller sobre Variabilidad y Cambio Climático en la Costa Oeste de América del Norte (III Workshop on Climate Change and Variability in Western North America), Puerto Peñasco, Mexico, October 2, 2009.


Scott, C.A. 2009. Implicaciones de la sobre-explotación de aguas subterráneas para la adaptación y mitigación del cambio climático (Groundwater depletion implications for adaptation and mitigation of climate change). II Taller sobre Variabilidad y Cambio Climático en la Costa Oeste de América del Norte (II Workshop on Climate Change and Variability in Western North America), Instituto Mexicano de Tecnología del Agua, Cuernavaca, Mexico, July 22, 2009.


LEVERAGED FUNDING

The research team has built synergies with the following leveraged awards:

Total award amount: $300,000 (contract is pending, expected Aug. 2011).


2007-12. CLIMAS Integrating climate science for decision-support, mitigating risk and promoting resilience: Climate assessment for the southwest. NOAA Climate Program Office ($4,000,000 over 5 years). (J. Overpeck - PI; G. Garfin, M. Wilder, B. Morehouse – co-PIs). NOAA Climate Program Office. Approx. $50,000/year for 3 years.


2008. Travel funding for two graduate student research assistants (J. McEvoy and A. Coles) to attend the joint International American Institute (IAI) – National Center Atmospheric Research (NCAR) colloquium on Seasonality and Water Resources in the Western Hemisphere in Mendoza, Argentina (10/06/08-10/17/08) ($3,000/participant). Total award: $6,000.

2008. The Foro Climatico Regional (Regional Climate Forum) for Northwest Mexico and the Southwest United States, April 10-11, at CICESE, Ensenada, Baja California. The Forum included participants from Mexico and the U.S. The Forum leveraged funds from the SARP project and contributed to building collaboration between U.S. and Mexican scientists in the region, and also contributed to the summer.

2008-09. Climate-related water constraints and their implications for relations across international boundaries: The North American experience. The Climate and Hydrology Academic Network for Governance and the Environment (CHANGE). (G. Garfin - PI, V. Magana, R. Stewart - co-PIs). $10,300 Embassy of Canada; $5,000 NIDIS; $3,000 Drought Research Initiative (Canada); $7,000 Agriculture and Agri-Food Canada; $3,000 Instituto Nacional de Ecología (Mexico) 11.


2009. In-kind contribution from University of Arizona’s Institute for the Study of Planet Earth (ISPE). $3,000 for staff time and graphic production of the Binational Climate Summary. (G. Garfin)

2009. In-kind contribution from University of Arizona’s Institute for the Study of Planet Earth (ISPE). $1,400 for staff time for the contributions towards the production of the 2009 Border Governors Conference planning and final report.

2009-10. Database Creation: Transboundary San Pedro Valley Aquifer (C.A. Scott, PI). $10,000, United States Geological Survey 104B administered by University of Arizona Water Resources Research Center (ag.arizona.edu/azwater/taap)

2010. Travel funding for one graduate student research assistant (J. McEvoy) to present a paper at the Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) Workshop, University of Illinois Champaign-Urbana (02/10). Total award: $800.

2010. Pre-dissertation research award from University of Arizona’s Social and Behavioral Science Research Institute for one graduate student research assistant (J. McEvoy) to continue related research on urban water vulnerability in Baja California (03/10). Total award: $600.

2010. Pre-dissertation research award from University of Arizona’s SBSRI Dissertation Development Award for one graduate student research assistant (J. McEvoy) to continue related research on urban water vulnerability in Baja California (04/10). Total award: $1,000

2010. Student fellowship awarded from the University of Arizona’s Water Sustainability Program to one graduate student research assistant (J. McEvoy) to continue related research on water vulnerability in northwestern Mexico. Total award: $18,500

2010. Travel funding for one graduate student research assistant (J. McEvoy) to present a paper at the Initiative on Climate Adaptation Research and Understanding through the Social Sciences (ICARUS) Writeshop, University of Michigan (06/10). Total award: $600.


2010 and annually since 1995. Support (R. Varady) for “Oct. 2010-Sept. 2011 Workplan.” Cooperative agreement with Udall Foundation. $330,000/year. Approx. 10% of these funds support the suite of projects covered in this document.

2010-11. Institute of the Environment Faculty Exploratory Research Grant to R. Varady work on sabbatical project, “Transboundary aquifer institutions, policies, and governance.” $10,000.


