

## Section 13

# Publications in 2017

## World Water Development Report

**Publisher:** UN-Water

**Published:** 2017

**URL:** [http://www.unwater.org/publication\\_categories/world-water-development-report/](http://www.unwater.org/publication_categories/world-water-development-report/)

UN-Water released the United Nations World Water Development Report 2017 “Wastewater: the untapped resource”. It calls for a quantum shift to see wastewater as a resource rather than a problem in a world where water is increasingly scarce but demand for it is growing.

*In a world where demands for freshwater are continuously growing, and where limited water resources are increasingly stressed by overabstraction, pollution and climate change, neglecting the opportunities arising from improved wastewater management is nothing less than unthinkable in the context of a circular economy, concludes the report.*



## The Future of Food and Agriculture – Trends and Challenges

**Publisher:** UN Food and Agriculture Organization (FAO)

**Published:** 2017

**URL:** <http://www.fao.org/3/a-i6583e.pdf>

A new FAO study seeks to contribute a common understanding of the major long-term trends and challenges that will determine the future of food security and nutrition, rural poverty, the efficiency of food systems, and the sustainability and resilience of rural livelihoods, agricultural systems and their natural resource base. FAO's assessment of prevailing trends suggests that in order to realize the vision of a world free from hunger and malnutrition, transformative change in agriculture and food systems are required worldwide. In FAO's view, there are 10 key challenges that need to be addressed if we are to succeed in eradicating hunger and poverty, while making agriculture and food systems sustainable. Those challenges include the uneven demographic expansion that will take place in the coming decades, the threats posed by climate change, the intensification of natural disasters and upsurges in transboundary pests and diseases, and the need to adjust to major changes taking place in global food systems.



## Strategic Work of FAO for Sustainable Food and Agriculture

**Publisher:** UN Food and Agriculture Organization (FAO)

**Published:** 2017

**URL:** <http://www.fao.org/3/b-i6488r.pdf>

The vision of FAO for sustainable food and agriculture is one where food is nutritious and accessible for everyone and one where natural resources are managed in a way that maintain ecosystem functions to support current as well as future human needs. In this regard, FAO has developed 5 key principles in this direction.



## Drought Characteristics and Management in Central Asia and Turkey

**Publisher:** FAO, Water for Food Institute, University of Nebraska-Lincoln, USA

**Published:** 2017

**URL:** <http://www.fao.org/3/a-i6738e.pdf>

The report assesses the occurrence and impacts of drought, the current policies underlying drought management as well as the mitigation measures and responses adopted in Central Asia and Turkey, with a focus on Agriculture Sector. It is part of a series of similar studies carried out in different regions and countries of the world, with the objective of shedding light on drought effects, sensitizing policy-makers for the much needed paradigm shift to pro-active drought management planning and providing guidance for the development of such policies. The studies are carried out by FAO, in collaboration with the Water for Food Institute, University of Nebraska-Lincoln, USA, as a direct contribution to FAO's Strategic Objective "Increasing the resilience of livelihoods to threats and crises".



## A matter of survival

**Publisher:** Geneva Water Hub

**Published:** 2017

**URL:** <https://www.genevawaterhub.org/resource/matter-survival>

A report of the Global High-Level Panel on Water and Peace has been launched in Geneva, Switzerland. It tries to generate extensive international awareness of water resources and their proper management. Authored by the 15-member panel, the report indicated that the global water challenge was not only about development and human rights but also peace and security. The report makes six main recommendations: improve transparency by better information-sharing; improve multi-stakeholder platforms; explore the development of a code of conduct for the private sector; develop a set of global standards for infrastructure development that affects water resources such as mines or dams; create a special facilitator on intersectoral conflict; and invest in tertiary education on water resource management.



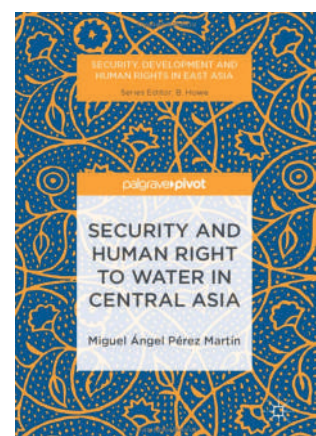
## Security and Human Right to Water in Central Asia

**Author:** Miguel Angel Perez Martin

**Published:** 2017

**URL:** <http://www.palgrave.com/de/book/9781137540041>

The new book by Miguel Angel Perez Martin highlights the importance of water resources in historical, political, economic and social events in Central Asian societies. It analyzes the current risks and threats arising from a mismanagement of water resources in Central Asia (Amu Darya basin) through the different dimensions of human security (environmental, economic, social and political) and its impact on the human right to water and sanitation. But the most outstanding feature of this book is to introduce, within the field of security, the human right to water and sanitation as one possible of the central pillars of international peace and security in Central Asia. It identifies the various actors involved in water issues and their relations in terms of conflicts, paying particular attention to multilateral security organizations (NATO, SCO, and CSTO). And it investigates whether international security organizations and security policies have been effective in addressing water conflicts in the region.



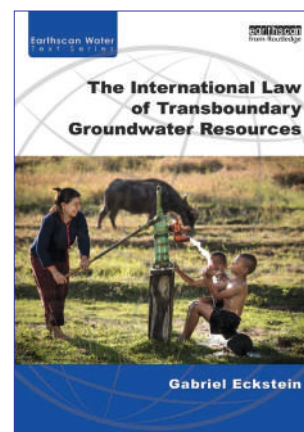
## The International Law of Transboundary Groundwater Resources

**Author:** Gabriel Eckstein

**Published:** 2017

**URL:** <https://www.routledge.com/The-International-Law-of-Transboundary-Groundwater-Resources/Eckstein/p/book/9781138842991>

This book provides a comprehensive review of the state of international law as it applies to transboundary groundwater resources and aquifers. The main focus is on recent developments and the emerging international law for transboundary aquifers as reflected in the practice of states and the work of the UN International Law Commission, UN Economic Commission for Europe, and International Law Association.



## Afghanistan Transboundary Waters: Perspectives on International Law and Development

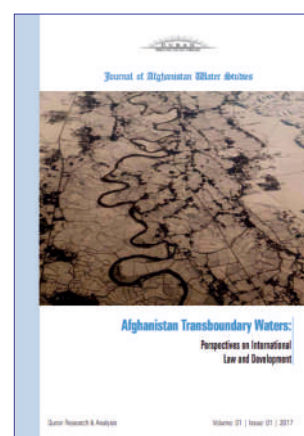
**Authors:** Muhammad Daud Rezaee, Dr. John F. Shroder, Sherjan Ahmadzai, Dr. Glen Hearn, Mir Sayed Shah Danish and Najib Rahman Sabory

**Published:** 2017

**URL:** <http://afghanwaters.net/en/journal-of-afghanistan-water-studies/>

Duran Research & Analysis is proud to present the first issue of the first volume of the Journal of Afghanistan Water Studies, a first of its kind, which comprises academic analysis with policy implications, mostly developed by Afghan experts of the field. These efforts can increase the availability of useful and easily accessible material on the subject for Afghan policy makers in the government, policy analysts and researchers in the civil society sector, and the academia.

This issue of the Journal of Afghanistan Water Studies, a small endeavor in contributing to knowledge base development on Afghanistan's transboundary water resources, includes analysis on topics such as the UN Water Conventions and Afghanistan, role of water in regional dynamics, hydro-cognizance, water security and hydropower.



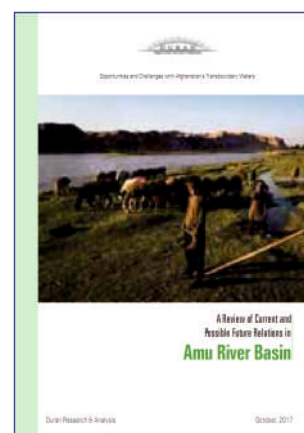
## Opportunities and Challenges with Afghanistan's Transboundary Waters: Review of Current and Possible Future Relations in the Amu River Basin

**Author:** S.Hassani, edited by Dr. Glen Hearn

**Published:** 2017

**URL:** <http://afghanwaters.net/en/a-review-of-current-and-possible-future-relations-in-amu-river-basin/>

The aim of this paper is to familiarize the reader with the key elements associated with Transboundary Rivers in Afghanistan and their implications on policy development. The report synthesizes knowledge and different perspectives of many experts working in the area of Transboundary Rivers. In doing so, it attempts to advance the main points of convergence of opinions in the form of recommendations and highlights those areas where more work is needed to build a common vision. This paper elucidates the primary challenges should a developing country like Afghanistan anticipate dealing with its transboundary waters. The challenges range from political matters to technical issues. Finally, the paper presents the conclusion and recommendations on the transboundary waters in the country as a whole, and on transboundary waters of the Panj-Amu Basin in particular.



## Irrigated Agriculture in Uzbekistan: Is there a Water Supply Reserve for Sustainable Development?

**Publisher:** SIC ICWC

**Published:** 2017

**URL:** [http://www.cawater-info.net/library/rus/irrigation\\_agriculture\\_uzbekistan.pdf](http://www.cawater-info.net/library/rus/irrigation_agriculture_uzbekistan.pdf)

Irrigated agriculture is vital for livelihoods in the Central Asian region, particularly in Uzbekistan. In arid climate, it serves as a basis for food security, well-being of rural population, land productivity, as well as for agroindustry that is under rapid development.



## Irrigation and Drainage in Eastern Europe, Caucasus, and Central Asia

**Authors:** V.A.Dukhovniy, Sh.Sh.Mukhamedjanov, R.R.Saidov

**Published:** 2017

**URL:** [http://www.cawater-info.net/library/rus/irrigation\\_drainage\\_eecca.pdf](http://www.cawater-info.net/library/rus/irrigation_drainage_eecca.pdf)

This publication was firstly presented during the 2<sup>nd</sup> World Irrigation Forum (6-12 November 2016, Chiang Mai, Thailand) organized by the International Commission on Irrigation and Drainage. The publication provides information on water, land, and irrigation potential in the EECCA countries.



## Collection of Selected Agreements on Water Resource Management in the Amu Darya Basin

**Publisher:** SIC ICWC

**Published:** 2017

**URL:** [http://www.cawater-info.net/library/rus/amudarya\\_2017.pdf](http://www.cawater-info.net/library/rus/amudarya_2017.pdf)

The publication comprises key multi- and bilateral agreements between the Central Asian states, including Afghanistan, on the Amu Darya basin.



## «Challenges of River Basin Management in the Context of Climate Change

**Publisher:** SIC ICWC

**Published:** 2017

**URL:** [http://www.eecca-water.net/file/eecca\\_papers\\_collection\\_vol\\_10\\_2017.pdf](http://www.eecca-water.net/file/eecca_papers_collection_vol_10_2017.pdf)

This collection comprises the papers that describe the state-of-the-art in research and activities aimed at mitigation of climate change effects in Eastern Europe, Caucasus, and Central Asia.



## Transboundary Cooperation in Central Asia – Security, Stability, and Prosperity of the Region: Proceedings of the International Conference

**Publisher:** Kazakh National Agrarian University and ED IFAS

**Published:** 2017

**URL:** [http://www.cawater-info.net/library/rus/conference\\_almaty\\_sep2017.pdf](http://www.cawater-info.net/library/rus/conference_almaty_sep2017.pdf)

Proceedings of the International Scientific and Practical Conference “Transboundary Cooperation in Central Asia – Security, Stability, and Prosperity of the Region” (7-8 September 2017) are published on the occasion of the 25<sup>th</sup> anniversary of the Interstate Commission for Water Coordination in Central Asia and the preparatory process to the 8<sup>th</sup> World Water Forum (March 2018, Brazil).

The publication offers academic research results grouped in: Section 1. Water conservation and integrated water resources management; Section 2. Land reclamation and irrigated agriculture; Section 3. Agricultural water use, flooding of pastures, and use of renewable energy; and Section 4. Agro-ecology and environment protection in the water sector, safety of hydraulic facilities, and prevention of emergency situations in the context of climate change.



## Collection of Scientific Papers of SIC ICWC, Issue 16

**Publisher:** SIC ICWC

**Published:** 2017

**URL:** [http://www.cawater-info.net/library/rus/sb\\_tr\\_16.pdf](http://www.cawater-info.net/library/rus/sb_tr_16.pdf)

This collection presents the results of research work undertaken by the experts of SIC ICWC in 2016-2017.



## Collection of Scientific Papers on the occasion of the 25<sup>th</sup> Anniversary of the Interstate Commission for Water Coordination in Central Asia

**Publisher:** SIC ICWC

**Published:** 2017

**URL:** [http://icwc-aral.uz/25years/pdf/25\\_icwc\\_scientific\\_papers.pdf](http://icwc-aral.uz/25years/pdf/25_icwc_scientific_papers.pdf)

The Scientific Information Center of ICWC published this collection of scientific papers on the occasion of the 25<sup>th</sup> anniversary of the Interstate Commission for Water Coordination in Central Asia.



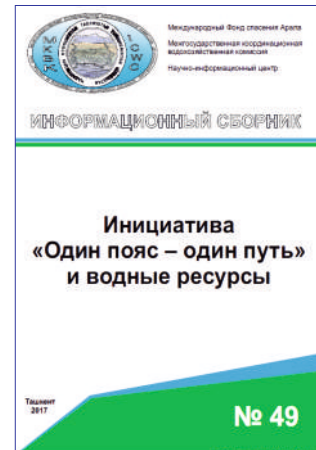
## One Belt-One Road Initiative

**Publisher:** SIC ICWC

**Published:** 2017

**URL:** <http://www.cawater-info.net/library/rus/inf/49.pdf>

This publication highlights possible impacts of the China's "One Belt-One Road" Initiative on water resources in Central Asia.



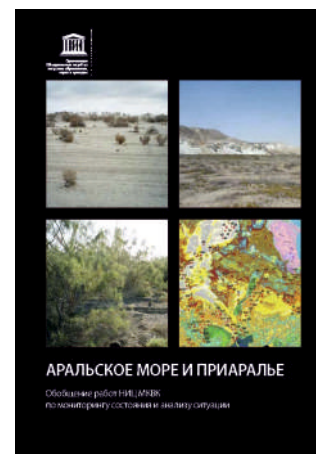
## The Aral Sea and Prearalie/edited by Prof. V.A.Dukhovniy

**Publisher:** Baktria press

**Published:** 2017

**URL:** <http://icwc-aral.uz/25years/pdf/aral.pdf>

This publication summarizes materials of thematic research in the Aral Sea and Prearalie carried out by experts of SIC ICWC jointly with partners from Holland, Belgium, and Russia in 1992-2015.



## Introduction to the Water Sector

**Author:** Dukhovniy V.A. .

**Published:** 2016

The book is dedicated to the theme of water. "There is no other element which is so many faceted and vital for human activity". The book describes emergence and development of water governance and management and addresses the role of water for food and energy security, socio-economic development and environment, and, particularly, for evolution of civilizations. It also discusses ethical issues related to water, climate change, and many other challenges that water professionals have to deal with. It concludes that "Having become a leading direction for human survival, the water profession required multidisciplinary approaches comprising economy, ecology, sociology, law, and ethics, and, eventually, this transformed it into an integral part of geopolitics".

