

TURKISH NATIONAL UNION OF GEODESY AND GEOPHYSICS (TNUGG)

**REPORT OF
NATIONAL HYDROLOGY
COMMISSION OF TURKEY**

(2011 – 2014)



GENERAL DIRECTORATE OF STATE HYDRAULIC WORKS (DSİ)

ANKARA

April, 2015

CONTENTS

- A. Activities of TUHK
 - A.1. Structural Reorganization of TUHK
 - A.2. TUHK Website
 - A.3. TUHK Logo
 - A.4. Steering Committee Meeting -2014 and TUHK Workshop
 - A.5. TUHK Scientific Activities
 - A.6. TUHK E-Bulletin
- B. Hydrological Activities in Turkey
- C. Institutional Relations and Cooperations
- D. Ongoing Projects
- E. Completed Projects
- F. TUBITAK-Supported Scientific Ongoing Projects
- G. National / Local Scientific and Technical Meetings, Seminars and Courses
- H. International Training Courses
- I. Activities Foreseen For the Future
- J. National / International Publications
- K. International Conference / Symposium / Conference Proceedings

National Hydrology Commission of Turkey (TUHK in Turkish acronym) is an organization that focuses on hydrologic researches and applications, involves academicians engaged with the training of hydrologic sciences, specialists from governmental and private institutions. TUHK is a part of International Associations of Hydrological Sciences (IAHS) at national level. The aim of TUHK is to promote hydrological researches and projects, engineering applications, and to enhance communication between members. Demonstration of hydrologic application capacity which has been developing in recent years enormously in Turkey may be possible with the constitution of a strong hydrological society. State Hydraulic Works (DSI) is the founder and the executive organization for TUHK.

A. Activities of TUHK

A. 1. Structural Reorganization of TUHK

TUHK was held a steering committee meeting in 20.02.2013 with the participation of the management board of TUHK and the chairs of the working groups (Figure 1). In this meeting, it was pointed out that a reorganization was essential to strengthen the working groups. In this manner, it was decided that every working group would have a deputy chair from State Hydraulic Works (DSI in Turkish acronym) and two secretaries from university and DSI stakeholders, separately. All working groups also strengthened by the new participations from universities and governmental institutions.



Figure 1. Steering committee meeting in 20.02.2013

As regards to this decision, the new structure of TUHK is given below in Table 1.

Working Group Title	Position	Name and Title	Organization
Working Group Title	Chairman	Bülent Selek, Ph.D.	State Hydraulic Works of Turkey
	University representative	Prof. Dr. Hafzullah Aksoy	Istanbul Technical University
	TUBİTAK representative	Selma AYZ, Ph.D.	Scientific and Technical Research Council of Turkey.
	TUHK secretariat	Hakan Aksu, Ph. D.	State Hydrolic Works of Turkey
Surface Water	Group chairman	Prof. Dr. Bihrat Onoz	Istanbul Technical University
	Vice chairman	Bilal Bektasoglu	State Hydraulic Works of Turkey
	University secretariat		
	DSI secretariat	Filiz Malkoc, Ph.D.	State Hydraulic Works of Turkey
Snow and Ice Hydrology	Group chairman	Prof. Dr. Ibrahim Gurer	Gazi University
	Vice chairman	Ayhan Akgoz	State Hydraulic Works of Turkey
	University secretariat		
	DSI secretariat	Mehmet Soylu	State Hydraulic Works of Turkey
Water Quality	Group chairman	Prof. Dr. Nilgün Harmancioglu	Dokuz Eylul University
	Vice chairman	Fikriye Baltacı	State Hydraulic Works of Turkey
	University secretariat		
	DSI secretariat	Pelin Cosar	State Hydraulic Works of Turkey
Atmosphere–Soil–Vegetation Relations	Group chairman	Prof. Dr. Mahmut Cetin	Cukurova University
	Vice chairman	M. Sait Tahmiscioglu	State Hydraulic Works of Turkey
	University secretariat		
	DSI secretariat	Nefise Gedikoglu, Ph.D.	State Hydraulic Works of Turkey
Remote Sensing	Group chairman	Prof. Dr. Zuhar Akyürek	Middle East Technical University
	Vice chairman	Kemal Seyrek	State Hydraulic Works of Turkey
	University secretariat		
	DSI Secretariat	Nesibe Gulsah Guresci	State Hydraulic Works of Turkey
Isotope-Tracers	Group chairman	Prof. Dr. Serdar Bayari	Hacettepe University
	Vice chairman	Alime Temel Dilaver	State Hydraulic Works of Turkey
	University secretariat	Huseyin Karakus Assistant Professor Dr.	Kütahya Kumlupınar University
	DSI Secretariat	Sebahat Ozcan Eyupoglu	State Hydraulic Works of Turkey
Groundwater	Group chairman	Ozan Deniz Ph. D.	Canakkale Onsekiz Mart University
	Vice chairman	Birol Ozer	State Hydraulic Works of Turkey
	University secretariat	Zahide Acar Deniz Ph. D.	Canakkale Onsekiz Mart University
	DSI Secretariat	Halide Senem Coskun	State Hydraulic Works of Turkey
Water Resources Systems	Group chairman	Ishak Yüce Associate Professor Dr.	University of Gaziantep
	Vice chairman	Murat Hatipoglu, Ph. D.	State Hydraulic Works of Turkey
	University secretariat	Abdullah Muratoglu Research Assistant	Batman University
	DSI secretariat	Betül Karaaslan	State Hydraulic Works of Turkey
Continental Erosion	Group chairman	Prof. Dr. Huseyin E. Celik	İstanbul University
	Vice chairman	Ibrahim Biroglu	State Hydraulic Works of Turkey
	University secretariat		
	DSI secretariat	Murat Cavusoglu	State Hydraulic Works of Turkey
Statistical Hydrology	Group chairman	Prof. Dr. Hafzullah Aksoy	Ege University
	Vice chairman	Miklat Yavuz	State Hydraulic Works of Turkey
	University secretariat	Ebru Eris Assistant Professor Dr.	Ege University
	DSI secretariat	Deniz Ozdemir	State Hydraulic Works of Turkey

Table 1. TUHK Management Board

A. 2. TUHK Website

TUHK web site was prepared and made accessible to public through the DSI web portal in 2013. (<http://www.dsi.gov.tr/faaliyetler/turkiye-ulusal-hidroloji-komisyonu>)

The web page includes the following items:

- Information about TUHK.
- Organization Structure.
- Working Groups.
- Regulation of TUHK.
- Events (hydrology calendar).
- Monthly Hydrology Bulletin.
- Publications.
- Hydrology Links.
- Membership procedures.
- Contact information.

A. 3. TUHK Logo

Three different logos were presented by DSI, one of them was selected via voting procedure. TUHK Logo which is shown below was voted by consensus of all working group management board members last year (2014).



Figure 2. TUHK Logo

A. 4. Steering Committee Meeting - 2014 and TUHK Workshop

The next meeting and the TUHK workshop was held in the DSI premises in Ankara with the participation of 50 TUHK members between 10 and 11 February 2014 (Figure 3). During the workshop, all chairs of working groups presented the current activities in Turkey with respect to their working group themes. In addition to these presentations, a researcher from METU presented a new research about remote sensing of hydrology by GRACE satellites. Another presentation focused on the submission procedure of research projects to The Scientific and Technological Research Council of Turkey (TUBITAK). General overview of the Turkish National Union of Geodesy and Geophysics (TNUGG) was presented by the secretary of TNUGG.



Figure 3. TUHK Workshop in February, 2014, Ankara

A. 5. TUHK Scientific Activities

TUHK working groups proposed two hydrology projects to TNUGG in 2014. The titles of the projects are “Establishment of Hydrostatistical Flow Estimation Model for Ungauged Basins” and “Analysis of Low Flow and Drought”. The evaluation process of these two projects is on-going.

VIII. National Hydrology Congress is going to be organized by Harran University and TUHK is the partner institution for the Congress (Figure 4). For more information, one could reach the website of the congress which is given below.

<http://hidrolojikkongresi.harran.edu.tr/>



Figure 4. VIII. National Hydrology Congress Poster

TUHK is also partner institution for IV. National Symposium for Isotope Techniques on Hydrology” which will be held between 5th and 9th October 2015 in Istanbul. <http://www.dsi.gov.tr/docs/sempozyumlar/4-ulusal-hidrolojide-i-zotop-teknikleri.pdf?sfvrsn=4>

TUHK proposed a project to The Scientific and Technological Research Council of Turkey (TUBİTAK) entitled as “Watershed Baseflow Index Map” with Istanbul Technical, Gaziantep, Cukurova, Ege, Batman and Kirklareli Universities.

A. 6. TUHK E-Bulletin

TUHK e-bulletin is published monthly on TUHK web-site. TUHK e-list includes approximately 1400 members from different water communities of Turkey. The members are composed of water professionals, academicians, decision makers, hydrology experts, practitioners, and governmental staff.

The link of the bulletin is given below.

<http://www.dsi.gov.tr/faaliyetler/turkiye-ulusal-hidroloji-komisyonu/hidroloji-bulteni>

Since January 2014 TUHK e-bulletin has been published in the new format. It consists of the items listed below.

National and International Publications.
Hydrological research studies.
National and International Hydrological Events.

Announcements and News related with the national and international institutions;

TUHK (National Hydrology Commission of Turkey).
IAHS (International Association of Hydrological Sciences).
UNESCO / IHP (International Hydrological Programme).
EMWIS (Euro-Mediterranean Water Information System).
INBO (International Network of Basin Organizations).
WWC (World Water Council).
EU (European Union).
UN – Water.
WMO (World Meteorological Organization).
ICID (International Commission on Irrigation and Drainage).

Job Announcements.
Did you know?
Statement of the month.
Discussion topics from members.

The information is given with a short description and includes the link of the news.

TÜRKİYE ULUSAL HİDROLOJİ TOPLULUĞU
e-Bülteni



Sayı : 01/2015 (OCAK)

DSİ GENEL MÜDÜRLÜĞÜ

ETÜT, PLANLAMA VE TAHSİSLER DAİRESİ BAŞKANLIĞI

ULUSLARARASI HİDROLOJİK FAALİYETLER (UHF) ŞUBE MÜDÜRLÜĞÜ

Tel: (312) 417 83 00 / 2477 Faks: (312) 417 13 78

Düzenleyen: TUHK Sekreteryası

<http://www.dsi.gov.tr/faaliyetler/turkiye-ulusal-hidroloji-komisyonu>

Bültenin kapsamı:

- Ulusal ve Uluslararası Yayınlar
- Hidroloji Araştırma Çalışmaları
- UHF Arşivine Ulaşan yayınlar
- Ulusal ve Uluslararası Hidroloji Etkinlikleri
- TUHK (Türkiye Ulusal Hidroloji Komisyonu)

- IAHS (Uluslararası Hidroloji Bilimleri Birliği)
- UNESCO/IHP (Uluslararası Hidroloji Programı)
- EMWIS (Avrupa-Akdeniz Su Bilgi Sistemleri)
- INBO (Uluslararası Havza Organizasyonları Ağı)
- WWC (Dünya Su Konseyi)
- AB (Avrupa Birliği) ile bağlantılı bilgiler
- UN (Birleşmiş Milletler) ile bağlantılı bilgiler
- WMO (Dünya Meteoroloji Teşkilatı)
- ICID (Uluslararası Sulama ve Drenaj Komisyonu)

Duyurular

İş duyuruları

Biliyor muydunuz?

Tartışma konuları

Üyelerden

Haftanın sözü

Not: Bu sayıda değerlendirilen alt bölümler koyu renkle belirtilmiştir.

Figure 5. Monthly TUHK E-Bulletin (January-2015)

B. Hydrological Activities In Turkey

Major contributing members of Turkish hydrological community are the General Directorate of the State Hydraulic Works (DSI), General Directorate of Water Management (SYGM), Turkish Water Institute (SUEN), Turkish State Meteorological Service (MGM), Ministry of Food, Agriculture and Livestock Research Institutes, universities and private sector.

During the last four years, it can be generally stated that the educational and technological capacities of the hydrometeorological services, and organizational abilities at the national level have been improved. In order to achieve the function of coordination in a more efficient manner, DSI has the principle responsibility of the hydrometeorological organizations, as being the focal point of national committees, covering the provision of advice to the Government on all related research, training, educational and practical matters in hydrology and giving the increased responsibility to DSI having more power in shaping national water resources policies. During the last four years, many conferences and symposiums related to hydrology and its most prevalent subtopics has been held in order to enhance the knowledge sharing among the pivotal institutions in both national and international level.

With the establishment of the Ministry of Forestry and Water Affairs in 2011, the institutional structure of governmental water institutions was changed fundamentally.

SUEN was founded as a new institution as a think tank under the Ministry of Forestry and Water Affairs with the purpose of realizing the scientific experience and water vision. SUEN intends to develop a national water policy in cooperation with other water related institutions and to provide opportunities for broader participation in international events.

The second new institution is General Directorate of Water Management which is responsible for determining policies towards protecting, rehabilitating and utilizing water resources as well as preparing river basin management plans on a basin basis in order to protect and improve water resources.

Electrical Power Resources Survey and Development Administration (EIE) was abolished and the water related tasks, especially hydrologic monitoring activities, of this administration transferred to DSI.

Suleyman Demirel University Water Institute and Ankara University Water Management Institution was established in order to ensure optimum water resources management and planning projects by producing a multi-disciplinary, graduate-level education and training of qualified, transparent and aims to train researchers can renew itself.

Turkish hydrology experts participated to UNESCO-IHP strategic planning activities for 2014-2021 in 2012 and 2013 as observer. Since 2014, Turkey is a member of intergovernmental council of UNESCO-IHP.

The 3rd Istanbul International Water Forum was held on May 27-29, 2014 with the attendance of 2,500 registered participants as well as Minister of Water Supply and Drainage of Sri Lanka, President of the World Water Council, President of the

International Water Resources Association (IWRA), Chair of National Committee for the 7th World Water Forum, Founding Director of the Institute for Advanced Sustainability Studies (IASS), Permanent Technical Secretary of International Network of Basin Organizations (INBO) and senior representatives of the ministries of Iran, Iraq, Poland, Macedonia, Morocco, and Yemen.

This third Forum tackled two all-important subjects of “Water Security” and “Legal Aspects of Water” in eight thematic sessions. Moving from the UN Millennium Development Goals to Sustainable Development Goals, the 3rd Istanbul International Water Forum addressed responses to the issues of global water security and discussed the issues of climate change, water-food-energy-ecology nexus, water governance and integrated basin management. The Forum also dealt with the legal aspects of water such as right to water and sanitation, national water law, transboundary water cooperation and the legislation on protection of water resources. The sessions were 105 minutes long and consisted of a keynote address followed by a moderated panel discussion featuring internationally prominent water experts. After the panel discussions, the audience had the opportunity to join the debate through Q&A’s.

Next to the thematic sessions, there were a number of side events organised by various national/international institutions and organisations.

The Forum also hosted a Water Expo, where various water organisations and firms showcased their water-related activities, services and products.

The outcomes of the 3rd Istanbul International Water Forum are aimed to feed the 7th World Water Forum that will be held in 2015 in Korea.

The celebration of World Water Day, March 22nd, has been celebrated in Turkey with a series of activities carried out to increase public awareness of water in the country. For this purpose, painting, composition and photography competitions and exhibitions are held.

Stockholm Junior Water Prize (SJWP) contest is carried out by DSI every year.

The 1st World Irrigation Forum (WIF) of which main organizer is International Irrigation and Drainage Commission (ICID) and host institution is Turkish Irrigation and Drainage Commission (TUCID) was held in Mardin, Turkey from 29th September to 5th October, 2013. Water management and introducing the new policies and technologies applied in agricultural sector, together with enhancing the cross-sectoral cooperation were the main issues aimed to be discussed in the WIF.

C. Institutional Relations and Cooperations

The members of the Turkish hydrologic community are cooperated with many other institutions listed as following;

- IAEA, International Atomic Energy Agency.
- JIIHP, Joint International Isotopes in Hydrology Program.
- IAH, International Association of Hydro-geologists.
- IAH, Karst Commission.

- IAHS, International Association of Hydrological Sciences.
- TUBITAK, Scientific and Technical Research Council of Turkey.
- U.S. National Committee for Scientific Hydrology.
- NIMH, Bulgarian National Hydrology and Meteorological Institute.
- UNESCO, Division of Water Sciences, International Hydrology Program.
- UNESCO, FRIEND.
- WMO, World Meteorological Organization.

Turkey has other activities at regional level. Institutional relations and cooperation are close with Ministry of Food, Agriculture and Livestock, Ministry of Environment, Ministry of Energy, Ministry of Development, Scientific and Technological Research Center of Turkey, Universities, and other water related institutions.

There is close collaboration with other national and international organizations and programmes such as WMO, IAHS, and MedPartnership.

Participation in international scientific meetings:

- Meetings hosted by the country European Group of Basin Organizations EUROPE-INBO, 17-19 October 2012, Istanbul, Turkey.

Participation hydrology meetings abroad:

- Hydrology Forum, 8-10 May 2012, WMO, Germany.
- Hydrology Forum , 24-26 September 2014, WMO, Poland.

D. Ongoing Projects

- Capacity Building on Water Quality Monitoring.
- Capacity building to Implement EU Flood Directive in Turkey.
- The impact of Climate Change on Water Resources of Turkey.
- Preparation of Flood Management Plan (Yeşilirmak and Antalya Basins).
- Preparation of the Drought Management Plan (Konya and Akarcay Basins).
- Identification of dangerous substances in coastal and transition waters of Turkey.
- Determination of water pollution causing by the use of Plant Protection Products.
- Development for determination of environmental objective methodologies for surface, coastal, transition waters (Buyuk Menderes Pilot Project).
- Determination of Sensitive Areas and Water Quality Objectives based basin scale in Turkey.
- Establishment of Country Specific Water Quality Ecological Assessment System Project.
- Atatürk Dam Conservation and Development Project.
- Development of Sectoral Water Allocation Planning Model (Ceyhan River Basin Pilot Project).
- Special Provisions Determination Project for Conservation of Water Environment.
- Reuse of Treated Wastewater for Agricultural Purposes.
- Water Footprint Project.

- Technical Assistance for Economic Analysis and Water Efficiency Studies in the Context of River Basin Management Plans (Implementation for three pilot basins).
 - Calculation porous media water flow velocities using particle image velocimetry (PIV) method.
 - Istanbul Grand Melen Water Supply Project (Melen System).
 - Ankara Gerede Water Supply Project.
 - Turkish Republic of Northern Cyprus (TRNC) Water Supply Project.
 - Master Plans of 25 Major Turkish basins.
 - "Every Drop Matters" Partnership on Filter Dam.
 - Upper Catchment Food Control Action Plan.
- <http://www.cem.gov.tr/erozyon/Files/yayinlarimiz/brosurler/SEL%20BROSUR%20ING%20MAIL.pdf>
- South Eastern Anatolia (GAP), East Anatolia DAP and Konya Plain Project(KOP) Action plans.
 - Trakya Development Project (TRAGEP).
 - Eastern Black Sea Project (DOKAP).
 - Floods Strategy Action Plan 2013-2017.
 - Thousand ponds in Thousand Days.

E. Completed Projects

- Watershed Protection Action Plans for 25 Great Basins in Turkey.
- Project on Pollution Control of Hazardous Substances.
- Capacity Building on Water Quality Monitoring.
- National Water Information System Project Feasibility Study.
- Project on Establishment of Automatic Water Measurement Stations.
- Development of statistical flow estimation models based on GIS in the Kızılırmak River Basin. TUJJB-TUMEHAP 01-11 project. ODTÜ Civil Engineering, 2014.

F. TUBITAK-Supported Scientific Ongoing Projects

- Turkish national manual and specifications & geoportal for flood hazard mapping studies.
<http://person.zirve.edu.tr/haltas/FloodDataBase/Homepage.html>
- Calculating porous media water flow velocities using particle image velocimetry (PIV) method.
<http://person.zirve.edu.tr/haltas/PorMedVelocity/Homepage.html>
- Real- or Near Real-Time Calculation of Porous Media Water Flow Velocities Using Particle Image Velocimetry (PIV) Method and Using The 2nd Velocity Vector Fields in Verification of The Existing Porous Media Solute Transport Models.

G. National / Local Scientific and Technical Meetings, Seminars and Courses

- 2nd Istanbul Somali Conference on Preparation for Future of Somali: Targets for 2015, 31 May-1 June 2012, Istanbul.
- National Hydrology Commission Workshop, 10-11 February 2013, Ankara.
- National Hydrology Commission Meeting, 20 February 2013, Ankara.

- D8 Water Cooperation Meeting With a Special Focus to Egypt and Nigeria, 21-22 February 2013.
- Water Law and Policies Workshop, 17-19 April 2013, Ankara.
- 3rd National Flood Symposium, 29-30 April 2013, Istanbul.
- Sharing Experiences for Karst Water Resources in the Middle East Workshop, 26-30 May 2013, Hacettepe University, International Karst Water Sources Research and Application Center, Ankara.
- 7th Hydrology Congress, 26-27 September 2013, Suleyman Demirel University, Isparta.
- First World Irrigation Forum, 29 September-5 Ekim 2013, Mardin.
- Water Safety in the 21st Century and Turkey Colloquia , 12-13 December 2013, Middle East Technical University, Ankara.
- Turkish National Hydrology Commission Workshop, 10-11 February 2014, State Hydraulic Works, Ankara.
- Dams Congress, 13-15 February 2014, Istanbul.
- International Integrated Basin Management Workshop, 25-26 February 2014, Istanbul.
- Water Safety and Water Law: Facing Challenges and Catching Opportunities, 27-29 May 2014, Istanbul.
- First World Irrigation Forum,,Irrigation and Drainage in the Changing World: Global Food Safety Challenges and Opportunities Meeting, 29 September- 5 October 2013, Mardin.
- 3rd International Istanbul Water Forum, 27-29 May 2014, Istanbul.
- 1st World Young Water Ambassadors Assembly Meeting, within the context of the 3rd International Istanbul Water Forum, 28 May 2014, Istanbul.
- Second International Conference on Water, Energy and the Environment Kusadası, Turkey. September 21-24, 2013.
- 5th International Water Engineering Symposium. 12-16 September 2011. DSI, Istanbul.

H. International Training Courses

Turkey were hosted specific educational and training courses. Courses were arranged by SUEN and DSI. Following courses were hosted;

- Course on Cooperation Opportunities for participants from Gabon, 11 September 2012, Ankara.
- Course on Cooperation Opportunities for participants from Burkina Faso, 20 May 2013, Ankara.
- More than 300 engineers have received training at The Turkish Water Institute (SUEN) from various countries such as Azerbaijan, Saudi Arabia, Afghanistan and Ghana.
- The Turkish Water Institute (SUEN) gave trainings to the personnel of the Azerbaijan State Water Company AZERSU in the years 2012 and 2013 mainly in the fields of water and wastewater treatment and management. Total personnel trained were 240.
- The Turkish Water Institute (SUEN) organized a training programme in water and wastewater management and technologies to a group of 9 senior officials from the

Republic of Ghana Water Resources, Works and Housing Ministry between 28 April – 3 May 2014. The delegation also undertook site visits to the treatment facilities operated by the Istanbul Water and Sewerage Administration (ISKI) to observe the successful implementations and practices in place. Certificates were handed out to each participant at the end of the programme. The programme was carried out in cooperation with the Turkish Cooperation and Coordination Agency (TIKA) and it is the target to deliver similar training programmes to other countries in Africa.

- SUEN hosted a delegation of 6 senior officials from the Afghan Energy and Water Resources Ministry between 17 and 22 March 2014. The programme topic was Integrated Water Resources Management and was financed by the USA donor agency USAID.

- SUEN gave trainings to the engineers from several water and sewerage companies from Saudi Arabia in 2013 and 2014.

I. Activities Foreseen For the Future

- 12th Session of The United Nations Convention to Combat Desertification Meeting will be held in Turkey in 2015.

- 8th National Hydrology Congress will be held in Sanlurfa in 2015.

- 4th International Istanbul Water Forum will be held in Istanbul in 2017.

- 4th National Hydrology Symposium on Isotope Techniques will be held in Istanbul in 2015.

- 9th World Congress - Changing World Conditions in Water Resources Management: Challenges and Opportunities will be held by European Water Resources association (EWRA), in Istanbul in 2015.

- 4th Water structures Symposium will be held on 19th- 20th November 2015 by Chamber of Civil Engineers.

- TUHK Steering committee will be held with the participation of the management board of TUHK and the chairs on the working groups in 16th March 2015 in Istanbul.

J. Publications Both National / International

- Agaccioglu, H., M. E. Emiroglu , N. Kaya, (2012). Discharge coefficient of side weirs in curved channels. Proceedings of the Institution of Civil Engineers-Water Management, 165(6), 339-352.

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- Ardicioglu, M., O. Genc, L. Kalin, et al., (2012). Investigation of flow properties in natural streams using the entropy concept, 2012. Title Source: *Water and Environment Journal* Volume: 26 Issue: 2 Pages: 147-154 Doi: 10.1111/j.1747-6593.2011.00270.x Published: Jun 2012.
- Arguelles, ACC., M. Jung, KJB, Mallari, G. Pak, H. Aksoy, LM. Kavvas, E. Eris, J. Yoon, Y. Lee, S. Hong, (2014) . Evaluation of an erosion-sediment transport model for a hillslope using laboratory flume data, *Journal Of Arid Land*, 6(6): 647-655 (doi:10.1007/s40333-014-0066-9).
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