



WORLD ASSOCIATION OF SOIL AND WATER CONSERVATION

HOT NEWS

Issue 12, 2016



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Editors: Dr. Du Pengfei, Contributors include Prof. Ildefonso Pla Sentis, Dr Shiva Hari Khatri, Dr Panos Panagos, Dr. Amir Kassam, and Prof. Li Rui.



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<http://www.journals.elsevier.com/international-soil-and-water-conservation-research/>

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Happy Chinese New Year



Dear colleagues, friends and members of WASWAC,

The most important festival of China - Chinese New Year is coming soon, we would like to take this opportunity to introduce you the year of 2017 in Chinese calendar. Chinese New Year, also known as Spring Festival, has more than 4,000 years of history. It is the grandest and the most important annual event for Chinese people. 2017 is the Year of the rooster according to Chinese zodiac. As the tenth in the 12-year cycle of Chinese zodiac, the Years of the Rooster include 1909, 1921, 1933, 1945, 1957, 1969, 1981, 1993, 2005, 2017,...

Years Corresponding to Chinese Zodiac Signs

Rat	1900	1912	1924	1936	1948	1960	1972	1984	1996	2008	2020
Ox	1901	1913	1925	1937	1949	1961	1973	1985	1997	2009	2021
Tiger	1902	1914	1926	1938	1950	1962	1974	1986	1998	2010	2022
Rabbit	1903	1915	1927	1939	1951	1963	1975	1987	1999	2011	2023
Dragon	1904	1916	1928	1940	1952	1964	1976	1988	2000	2012	2024
Snake	1905	1917	1929	1941	1953	1965	1977	1989	2001	2013	2025
Horse	1906	1918	1930	1942	1954	1966	1978	1990	2002	2014	2026
Sheep	1907	1919	1931	1943	1955	1967	1979	1991	2003	2015	2027
Monkey	1908	1920	1932	1944	1956	1968	1980	1992	2004	2016	2028
Rooster	1909	1921	1933	1945	1957	1969	1981	1993	2005	2017	2029
Dog	1910	1922	1934	1946	1958	1970	1982	1994	2006	2018	2030
Boar	1911	1923	1935	1947	1959	1971	1983	1995	2007	2019	2031

Direct, talented and capable, roosters are deep thinkers. They are best described as

eccentric with strange flights of fancy. Externally, they are radiant creatures who enjoy the limelight. They are astute, organised, detailed and meticulous and, will call a spade. Ambitions run high in them and they will work to make it happen. Nothing can match the rooster's resilience in life and its ability to spring back into action each time. But they can become cocky, bossy and blunt.

The date of the Chinese New Year is determined by the Chinese calendar, a lunisolar calendar. The same calendar is used in countries that have adopted the Confucian and Buddhism tradition and in many cultures influenced by the Chinese. Chinese New Year starts on the first day of the new year containing a new moon (some sources even include New Year's Eve) and ends on the Lantern Festival fourteen days later. This occurs around the time of the full moon as each lunation is about 29.53 days in duration. In the Gregorian calendar, the Chinese New Year falls on different dates each year, on a date between January 21 and February 21. The Chinese New Year in 2017 will be on January 25.

Before the Spring Festival, every Chinese family will have a thorough house cleanup and go for festival items shopping. The spring couplets, Fu Character, and animal paper cut are pasted for decoration. Also, new clothes must be bought, especially for children. At the reunion dinner on New Year's Eve, people from north will eat dumplings, which southern people are used to have Niangao (glutinous rice cake). Red Envelopes are given to kids and elders to share the blessing.

The secretariat of WASWAC wish all of our members a very happy and prosperous Chinese New Year!



WASWAC New Council for 2017-2019

Based on the results and decision from the Member Representative Assembly & Enlarged Council Working Meeting convened in Belgrade, Serbia, on August 24, 2016, the WASWAC institutional framework of new council for 2017-2019 was established.

The new council for 2017-2019

No.	Name	Country	Position
1	Li Rui	China	President
2	Miodrag Zlatic	Serbia	Chairman of Organization Committee
3	Ning Duihu	China	Secretary General, Chairman of Award Committee
4	Lei Tingwu	China	Deputy President, Chief editor of ISWCR
5	José Luis Rubio	Spain	Deputy President, Chairman of International Cooperation and development Committee
6	Suraj Bhan	India	Deputy President, Chairman of Conference Committee
7	Roberto Peiretti	Argentina	Deputy President
8	Rachid Mrabet	Morocco	Deputy President
9	Julian Dumanski	Canada	Chairman of Publication Committee
10	Liu Xiaoying	China	Treasure, Chairman of Financial Committee
11	Peter Strauss	Austria	Councilor
12	Ian Hannam	Australia	Councilor
13	Gustavo Merten	Brazil	Councilor
14	Mello Ivo	Brazil	Councilor
15	Li Dingqiang	China	Councilor
16	Fenli Zheng	China	Councilor
17	Franco Obando	Colombia	Councilor
18	Panos Panagos	Greece	Councilor
19	Machito Mihara	Japan	Councilor
20	Kingshuk Roy	Japan	Councilor
21	Surinder Singh Kukal	India	Councilor
22	Syaiful Anwar	Indonesia	Councilor
23	Seyed Hamidreza Sadeghi	Iran	Councilor
24	Camelo Dazzi	Italy	Councilor
25	Zachary Gichuru Mainuri	Kenya	Councilor
26	James Owino	Kenya	Councilor
27	Ivan Blinkov	Macedonia	Councilor
28	Coen Ritsema	Netherlands	Councilor
29	Tijani Moshood	Nigeria	Councilor
30	Annie Melinda Pas-Alberto	philippines	Councilor

31	Valentin Golosov	Russia	Councilor
32	Ildefonso Pla Sentís	Spain	Councilor
33	Chinapatana Sukvibool	Thailand	Councilor
34	Wanwisa.Pansak	Thailand	Councilor
35	Shabbir Shahid	UAE	Councilor
36	Mike Fullen	UK	Councilor
37	Jorge A Delgado	USA	Councilor
38	Alfred Hartemink	USA	Councilor
39	Ted Napier	USA	Councilor
40	Don Reicosky	USA	Councilor

Bsed on the council meeting in Serbia, President Li proposed that the Advisory committee of WASWAC Council should be established. The committee is composed past presidents, founders and famous experts who have made great contribution to WASWAC in the world. The advisory's opinion will be well considered by the council when important decisions were made.

The advisory committee for 2017-2019

No.	Name	Country	Position
1	Winfried Blum	Austria	Chairman
2	Samran Sombatpanit	Thailand	Vice- Chairman
3	John Laflen	USA	Vice- Chairman
4	Liu Zhen	China	Vice- Chairman
5	Hans Hurni	Switzerland	Vice- Chairman
6	Des E. Walling	UK	adviser
7	Samir El-Swaify	USA	adviser
8	Rattan Lal	USA	adviser
9	Doug Wimble	Australia	adviser
10	Martin Haigh	UK	adviser
11	Chi-hua Huang	USA	adviser
12	Mark Nearing	USA	adviser
13	William Critchley	UK	adviser
14	Tang Keli	China	adviser
15	Wang Lixian	China	adviser

We believe that our association must be stronger and stronger with the support from all our concilors and advisors.

COMING MEETINGS



SESSION during the EGU 2017 General Assembly, April 23-28 2017, Vienna, Austria

SSS1 – History, Education and Society of Soil Science, Taxonomy

Division SSS – Soil System Sciences.

Contributions that show new educational approaches, cooperation with other disciplines and efforts to improve sustainability are of interest.



**European Geosciences Union
General Assembly 2017**

Vienna | Austria | 23–28 April 2017

EGU.eu



SSS1.8

The contribution of the Soil Science Societies to scientific knowledge, education and sustainability

See here: <http://meetingorganizer.copernicus.org/EGU2017/session/23790>

1st World Conference on Soil and Water Conservation under Global Change (CONSOWA)



See here: www.consowalleida2017.com

**Important Dates:**

Abstracts submission closes **15 Feb 2017**

Notification - Acceptance/Rejection 29 Mar 2017

Author/Presenter Registration/Payment Deadline 24 May 2017

Venue:

Suntec Singapore, a world-class venue for meetings, conventions & exhibitions centrally located at the Marina Bay, Singapore



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Email Enquiries to: Exhibition & Sponsorship (Boon Hwang NG & Alex ANG)

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Scientific Program & Help Desk (Quentin PAN) info@asiaoceania.org

Society Business, Feedback & Complaints (Alex ANG & Cheng-Hoon KHOO)

admin@asiaoceania.org

Details at: <http://www.asiaoceania.org/aogs2017/public.asp?page=venue.htm>



Water Resources Management 2017

9th International Conference on Sustainable

Water Resources Management

Date and Venue:

18 - 20 July, 2017, Prague, Czech Republic

Topics:

Conference Topics:

Water management and planning, Water rights and accessibility, Water markets economics and policies, Climate change, Sedimental soil erosion, Irrigation, Water resources in arid regions, Ground water, Urban water management, Hydraulic engineering, Water quality and pollutant control, Water quality and health, River basin management, Flood risk management, Hydroinformatics, GIS and remote sensing, Trans-boundary water management, Water, food and energy, Socio-economic aspects, Water resources strategies, Innovative technologies, Water and the community, Integrated water analysis, Wetlands as water sources, etc.

Conference Secretariat

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Southampton, SO40 7AA
Tel: 44 (0) 238 029 3223
Fax: 44 (0) 238 029 2853
pcook@wessex.ac.uk

Organiser



Wessex Institute, UK

Sponsors



WIT Transactions on the Ecology and
the Environment

International Journal of Environmental Impacts

Abstract Submission Here:

https://www.wessex.ac.uk/index.php?option=com_chronoforms5&view=form&Itemid=5530&chronoform=Abstract&conf=water-resources-management-2017

A Manual on Participatory Three-Dimensional Modelling (P3DM)

Three dimensional models (3D) are particularly suitable for working in local communities, because they allow people to easily understand the location of different elements in the landscape: how rivers, roads, slopes, villages and other features are placed.

A Manual on Participatory Three-Dimensional Modelling (P3DM)

Prepared by

Govinda Joshi
Gauri Shankar Dangol
Birendra Bajracharya
MSR Murthy
Sebastian Wesselman

When working in the area of natural resource management, these models can help local communities make more informed planning decisions in terms of village, forestry, and agricultural development. Recently, ICIMOD published a training manual with the title of “A Manual on Participatory Three-Dimensional Modelling (P3DM)”, full text can be downloaded here:

<http://lib.icimod.org/record/32445/files/icimod3Dmanual16.pdf>

Soil Biomass Productivity maps of grasslands and pasture, of croplands and of forest areas in the European Union (EU27)

This dataset consists of 3 GIS maps that indicate the soil biomass productivity of grasslands and pasture, of croplands and of forest areas in the European Union (EU27) and that corresponds to the figures 4, 5 and 6 from the publication

Figure 4. Soil biomass productivity of grasslands and pastures

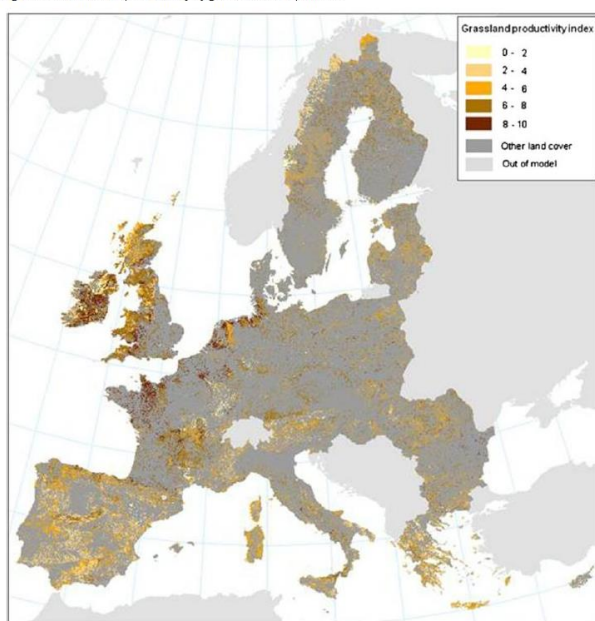


Figure 5. Soil biomass productivity of croplands

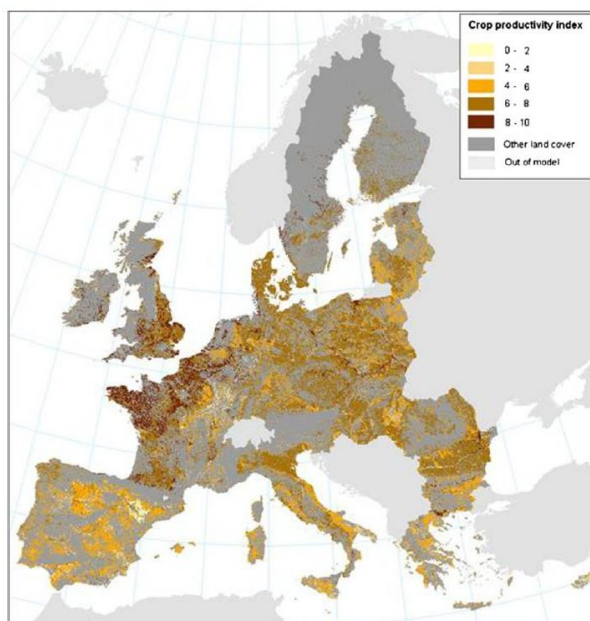
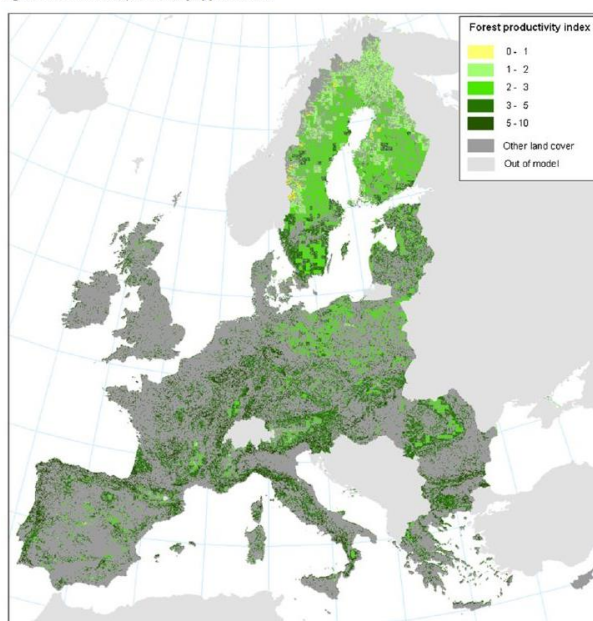


Figure 6. Soil biomass productivity of forest areas



"Continental-scale assessment of provisioning soil functions in Europe", Gergely Tóth, Ciro Gardi, Katalin Bódis, Éva Ivits, Ece Aksoy, Arwyn Jones, Simon Jeffrey,

Thorum Petursdottir and Luca Montanarella, *Ecological Processes* 2013 2:32; DOI: 10.1186/2192-1709-2-32.

(<https://ecologicalprocesses.springeropen.com/articles/10.1186/2192-1709-...>)

From this paper: "The degree to which the soil carries out its biomass production service was evaluated on the basis of soil properties under prevailing climatic and topographical conditions. Since productivity is a result of the interaction of soil, climatic, and topographical conditions, these factors need to be assessed in their complexity. In addition to geophysical conditions, soil productivity also depends on the type of land use. The assessment of the European Environmental Agency (EEA 2006) shows that the three major land use types dominating the land cover of Europe are arable land with a share of 33%, pastures and mosaics with a share of 23%, and forests with a share of 29%. The aggregated share of these three types of land uses sums up to 85% of the total land and freshwater surfaces of the 24 countries of Europe assessed by the EEA (2006). Besides these major land use types, there are a number of specific regionally characterized land uses in Europe. There might also be considerable differences in the land utilization within the main land use types. However, for a continental-scale assessment of biomass productivity, the productivity patterns were evaluated according to the three major land use types. Models were therefore developed to describe general orders of soil productivity within the three land use types, namely for pasture/grassland, cropland, and forest. Calculations were performed in a spatially explicit manner, taking climatic and topographical conditions into account. Productivity models were built to reflect rain-fed conditions. The description of temporal variability of productivity or the estimation of provision productivity by means of actual yields was not among the aims. Results are presented in land use-specific maps (e.g., cropland productivity for areas of rain-fed arable lands, forest biomass productivity for forest lands, and grassland productivity for pastures and mosaics)."

Details here: <http://esdac.jrc.ec.europa.eu/content/soil-biomass-productivity-maps-grasslands-and-pasture-coplands-and-forest-areas-european>

VACANCIES

1. Collaborative Doctoral Partnerships

The importance of science-based evidence for policy making is increasingly recognised by decision makers and finds resonance in academia. In order to enhance the science-policy link, the Joint Research Centre (JRC) is offering a new collaborative Collaborative Doctoral Partnership (CDP) scheme to higher education institutions to benefit from a strategic, win-win collaboration with the JRC.

The scheme will allow universities to gain a better understanding of research needs throughout the policy cycle while at the same time providing the JRC with innovative research input and exchange of information with leading academic institutions in the field.

The objective of the CDP is to establish strategic collaborations in these fields with higher education institutions characterised by research excellence and international reputation in the field in order to:

- ✚ train a new generation of doctoral graduates in science and technology with a focus on the science-policy interface, able to understand the research needs at different stages of the policy cycle, capable of providing scientific support to policy and of using transferable skills in science communication and knowledge management
- ✚ co-develop, co-host and co-supervise doctoral studies between higher education institutions and the JRC
- ✚ strengthen collaboration between the JRC and higher education institutions by promoting mutual enhancement of related skills and competences, combining existing knowledge and capacities, and enhancing networking in key scientific areas

The call for expression of interest to participate in the CDP pilot is open and the

application deadline is 15.3.2017. Soil and land use change is one of the six thematic fields proposed for this scheme. More information and application forms in:

<https://ec.europa.eu/jrc/en/working-with-us/collaborative-doctoral-partn...>

Deadline:

Wednesday, March 15, 2017

2. PhD Research Studentship - Project Title: Evaluating the effect of plant species on soil carbonation flux



Scottish Alliance for Geoscience, Environment & Society (SAGES) and Abertay University's Graduate School are fully-funding new doctoral studentship, including stipend. The doctoral program is in collaboration with the University of Edinburgh and the prospective PhD student would benefit from supervisory team from Abertay and Edinburgh universities and access to facilities belonged to the both institutes. The proposed PhD project will use established plots to measure soil carbonation in engineered soils, using various selected plant species. The overarching research question is: Are there root traits that markedly enhance carbon capture in soils already conducive to carbonation?

Entry requirements: A related Masters level qualification is desirable but not essential, but candidates must have, or expect to obtain a first class or upper second-class honours degree in a relevant discipline; for example, geoscience, engineering geology or geotechnical engineering (with strong mathematics).

Applicants who are non-native speakers of English, the University requires IELTS of 6.5 (with no band less than 6.5) or an equivalent qualification accepted by the Home Office.

The Studentship is available for an October 2017 start for a period up to 3.5 years.

Further details on this project can be obtained from Dr Ehsan Jorat (e.jorat@abertay.ac.uk).

Further information on Abertay University may be obtained from the Graduate School, University of Abertay Dundee, Bell Street, Dundee, DD1 1HG, Tel:+44 (0)1382 308150, email: GraduateSchool@abertay.ac.uk

Applicants should submit through HIREWIRE submitting a CV (including references) and a personal statement of application detailing why you are interested in undertaking this project. (NOTE: HIREWIRE ONLY ALLOWS YOU TO SUBMIT ONE DOCUMENT, PLEASE MERGE YOUR SUPPORTING DOCUMENTS).

The deadline for applications is Friday 10 February with interviews for candidates in Edinburgh between 21 - 24 February, 2017

Details at: <http://www.earthworks-jobs.com/geotech/abertay17011.html>

3. Assistant Professor in Environmental Soil Biogeochemistry

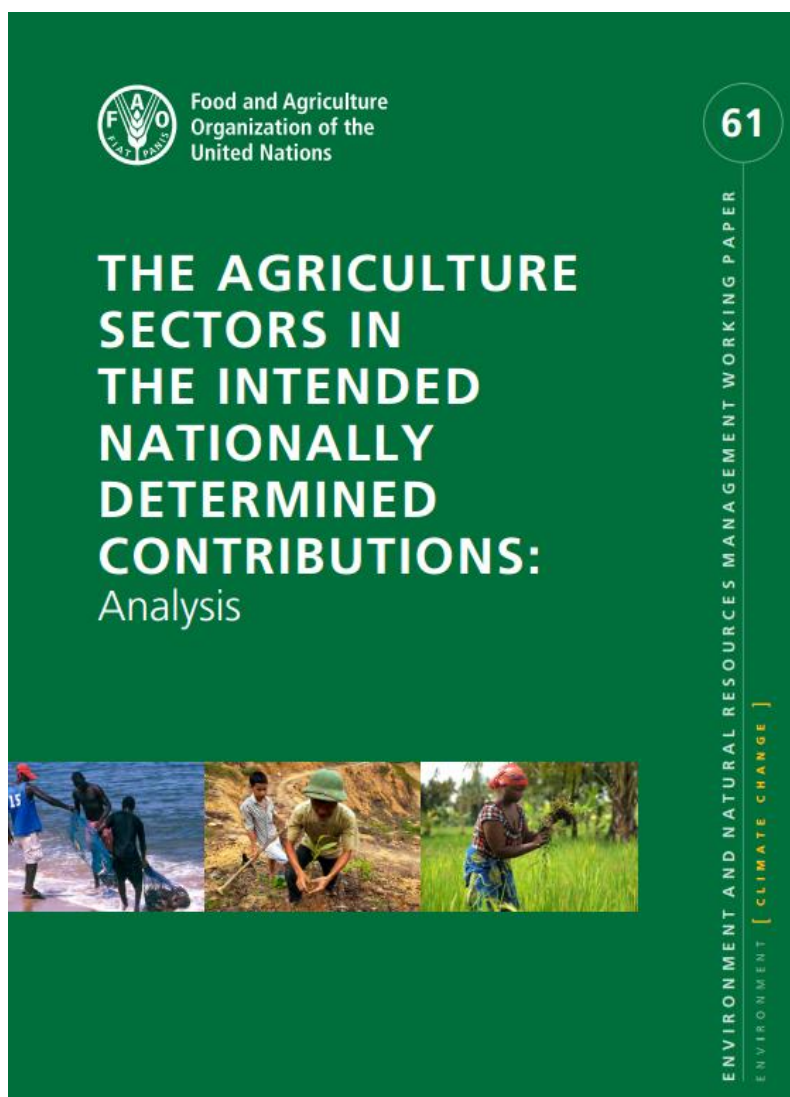


The Department of Natural Resource Sciences of McGill University invites outstanding scholars to submit applications for a tenure-track position in Environmental Soil Biogeochemistry at the Assistant Professor level. This is a full-time tenure track appointment with teaching, research and service responsibilities. Qualifications: The successful applicant will hold a Ph.D. in a relevant field, such as soil science, biogeoscience, applied physical chemistry, vadose zone hydrology, environmental sciences or environmental engineering. Applications should include a cover letter, a current curriculum vitae, a research statement that includes achievements and future plans, up to three publications in PDF format, a summary of teaching interests and experience, and letters from three professional references who can evaluate their candidacy for a tenure-track position. The position start date is August 1, 2017.

PLEASE APPLY ONLINE AT: <https://academicjobsonline.org/ajo/jobs/8829>

The agriculture sectors in the Intended Nationally Determined Contributions: Analysis - FAO report

This new report from FAO gives a detailed update on the situation of Intended Nationally Determined Contributions (INDCs/NDC) for the 189 countries that have submitted their “plans”, as of July 2016. The report summarizes plans by different countries to address the challenge of global warming, particularly by assessing the role of agriculture and land use, land-use change, and forestry and the agriculture sectors (crops, livestock, fisheries and aquaculture, as well as forestry) in meeting national mitigation contributions and adaptation objectives.



The detailed report is available here: <http://act-africa.org/image/INDCs.pdf>

Soil Health Research Landscape Tool

The Soil Health Institute (SHI) has released the Soil Health Research Landscape Tool, which is an online library and search engine. The tool will be a resource for agricultural and environmental scientists, agricultural producers, and others interested in soil health.

In addition to the most up-to-date information on soil health and its relationship to soil amendments, cover crops, erosion control, and other agricultural and land management practices, the Soil Health Research Landscape tool will include data, metadata, methods descriptions, standards, and related economic impacts for soil scientists, researchers, and analysts. The information will be available publicly through the Institute's website.

The initial library includes more than 1,000 scientific research papers, research progress reports, and other kinds of publications and references. Building the tool's library of soil health papers and information will be an ongoing, open-ended effort by the Institute and its partners.


“The Soil Health Research Landscape tool allows users to connect soil health problems, management actions, and desired outcomes with research addressing their particular situation, whether it be from a specific production system, climatic zone, or geographic region,” explained Wayne Honeycutt, SHI President and Chief Executive Officer. “Situations in which no research literature exists indicate gaps that merit future consideration for soil health research. Because enhancing soil health can increase productivity, water quality, carbon sequestration, and drought resilience, while also reducing greenhouse gas emissions, this release of the Soil Health Research Landscape tool is an important step in providing a comprehensive, searchable, and publicly available information system for achieving both agricultural and environmental benefits,” Honeycutt added.

<http://www.growingproduce.com/vegetables/soil-health-institute-launches-web-based-soil-health-research-landscape-tool/>

The world's road to water scarcity: shortage and stress in the 20th century and pathways towards sustainability

Water scarcity is a rapidly growing concern around the globe, but little is known about how it has developed over time. Recently, M.Kum Mu et al. published a paper with title of “The world's road to water scarcity: shortage and stress in the 20th century and pathways towards sustainability”, that provides a first assessment of continuous sub-national trajectories of blue water consumption, renewable freshwater availability, and water scarcity for the entire 20th century. In this study, water scarcity is analysed using the fundamental concepts of shortage (impacts due to low availability per capita) and stress (impacts due to high consumption relative to availability) which indicate difficulties in satisfying the needs of a population and overuse of resources respectively. While water consumption increased fourfold within the study period, the population under water scarcity increased from 0.24 billion (14% of global population) in the 1900s to 3.8 billion (58%) in the 2000s. Nearly all sub-national trajectories show an increasing trend in water scarcity. The concept of scarcity trajectory archetypes and shapes is introduced to characterize the historical development of water scarcity and suggest measures for alleviating water scarcity and increasing sustainability. Linking the scarcity trajectories to other datasets may help further deepen understanding of how trajectories relate to historical and future drivers, and hence help tackle these evolving challenges.

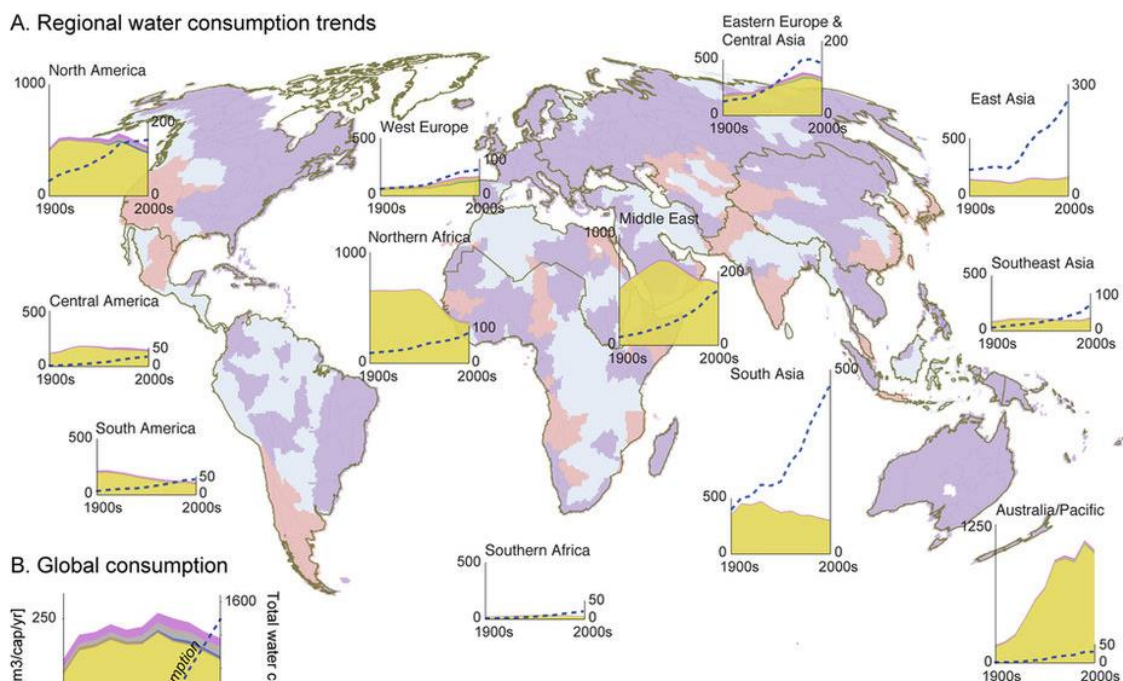
The world's road to water scarcity: shortage and stress in the 20th century and pathways towards sustainability

M. Kummu , J. H. A. Guillaume, H. de Moel, S. Eisner, M. Flörke, M. Porkka, S. Siebert, T. I. E. Veldkamp & P. J. Ward

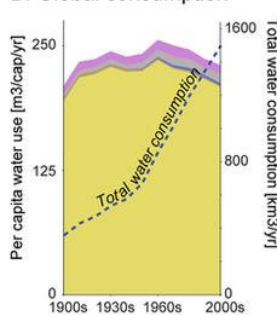
Scientific Reports **6**, Article number: 38495
(2016)
[doi:10.1038/srep38495](https://doi.org/10.1038/srep38495)

Received: 20 May 2016
Accepted: 11 November 2016
Published online: 09 December 2016

A. Regional water consumption trends



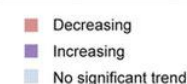
B. Global consumption



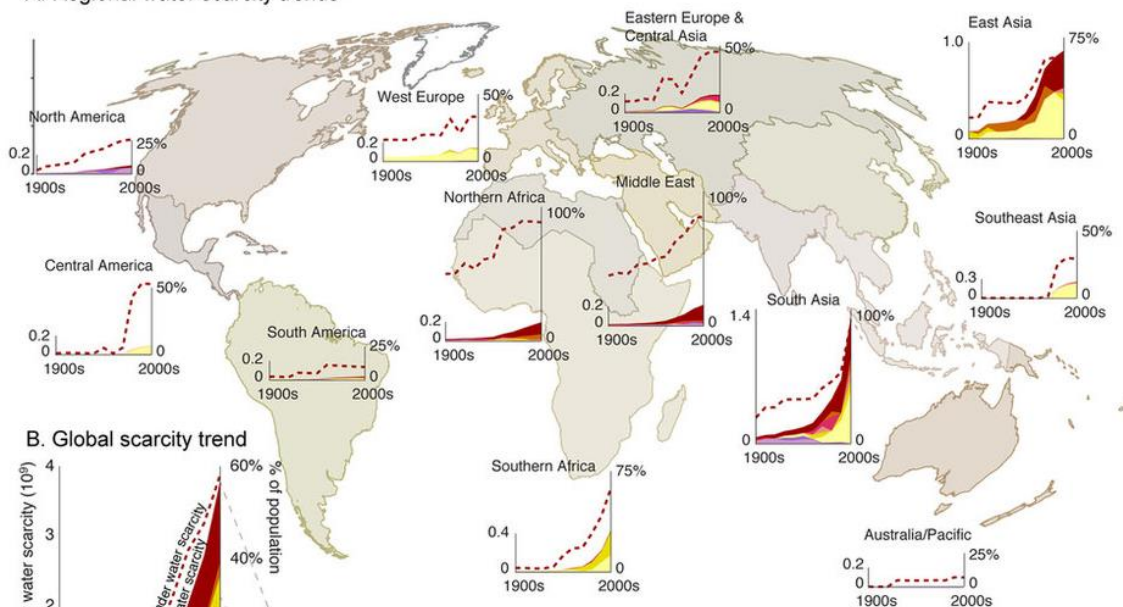
Consumptive water use on the 20th century – per capita and total water consumption



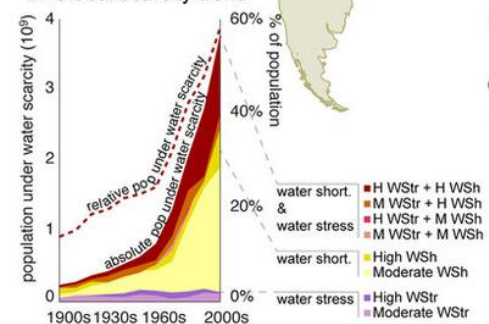
Background:
Trend at FPU scale in per capita consumption



A. Regional water scarcity trends



B. Global scarcity trend



Water scarcity on the 20th century

Details at: <http://www.nature.com/articles/srep38495#f2>



WASWAC MEMBERSHIP APPLICATION/RENEWAL FORM (Issued 120501)

(For applicants from all countries)

Name: (Ms./Mrs./Mr./Prof./Dr.) Gender: ☐F ☐M
Institution:
Postal address:
State/Province: Zip/Postal code: Country:
Phone: Fax:
Emails (Please give at least 2 addresses to ensure uninterrupted contact): (1)
(2) (3)
My specialized field(s):
Please sign me up for the WASWAC membership in category*: ☐1(IM)☐2(LM)☐3(OM)☐4(SM&GM)
Membership for the year(s) @US\$ = US\$
Donation for developing country membership, etc. US\$
Donation to the Moldenhauer Fund US\$
Total US\$

***Membership categories & rates** from July 18, 2005, amended March 3, 2007 and March 4, 2010.

- 1.** IM (Individual membership): US\$20 for 5 years for developing countries **(In China, members pay 130 yuan RMB)**; US\$40 for 5 years for developed countries and persons working in international organizations worldwide.
- 2.** LM (Life membership): US\$80 for developing countries **(In China, members pay 520 yuan RMB)**; US\$160 for developed countries and persons working in international organizations worldwide. Persons who have passed their 60th birthday pay only half of these LM rates.
- 3.** OM (Organization membership): For universities, research and implemental institutions, government agencies, NGOs, societies, associations and international organizations, etc. Persons belonging to an Organization member will receive the same online products and services as the other two above categories: \$100/year for an organization with up to 150 persons; \$150/year for an organization with up to 300 persons; \$200/year for an organization with up to 500 persons; and \$10/year for an additional 100 persons or part thereof.
- 4.** SM&GM (Student membership & Gift membership): US\$5/year worldwide, to be purchased to give to colleagues, friends, students, etc.

For sending money by foreign wires through a bank, please give the following information to your bank:

Name of Receiver (A/C Holder's Name): World Association of Soil and Water Conservation

Bank Name and Address: China Construction Bank, Shoutinanlu Branch, Beijing, China, No. 9 Shoutinanlu Street, Haidian District, Beijing, P R China

A/C NO.: 1100 1042 7000 5301 6996

Message to write on the Bank Sheet: WASWAC Membership due for Ms./Mrs./Mr./Prof./Dr., Country

NOTE: **1.** Do not deduct the bank fee from the amount of money to send. **2.** For sending money by wire/bank transfer or check please add US\$7 per transaction to compensate for the charge at the receiving bank in Beijing. This additional charge does not apply for **WESTERN UNION** or any payment of US\$50 or more.