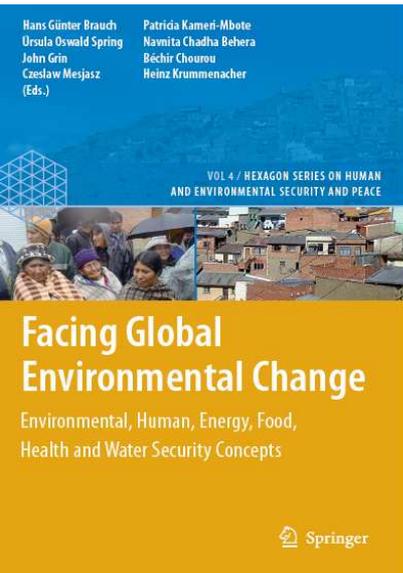


Climate Change, Social Stress and Violent Conflict State of the Art and Research Needs International Conference

KlimaCampus, Hamburg University, 19 – 20 November 2009



Book Launch

Facing Global Environmental Change *Environmental, Human, Energy, Food, Health and Water Security Concepts*

Hans Günter Brauch



UNITED NATIONS
UNIVERSITY
UNU-EHS

Institute for Environment
and Human Security

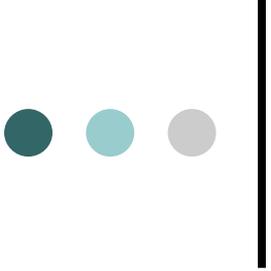
Freie Universität



Berlin

AFES-PRESS

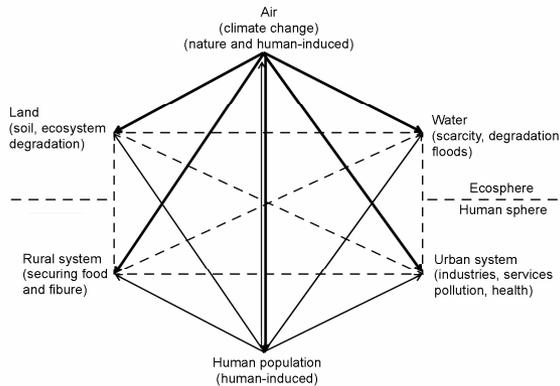




Contents

- **Hexagon Book Series on Human and Environmental Security and Peace**
- **Environmental Security Handbook for the Anthropocene**
- **Team: 11 Co-editors from 10 Countries**
- **Reconceptualization of Security and Global Environmental Change (GEC)**
- **2 Themes: GEC and Sectorialization of Security**
- **1 of 100 chapters: Securitization of Global Environmental Change: Climate Change, Soil, Water**
- **Bookaid Projects for Libraries in the Third World**
- **Other language editions: Turkish, Spanisch, Greek**

Hexagon Book Series on Human and Environmental Security and Peace



———> direct impact of nature and human-induced "root cause": climate change on five factors
 ———> direct impact of human-induced "root cause": population on five factors
 - - -> complex interaction among four structural factors: land, water, urban and rural systems

Hexagon book series offers a platform for scientific communities on

- global environmental & climate change, disaster reduction, human, environmental, gender security,
- peace, security, development & environmental studies
- for the humanitarian aid and the policy community in national governments and international organizations.

Scientific and Policy Goals:

- Impacts of anthropogenic global environmental & climate change on the security of states & human beings (humankind)
- This requires a „Reconceptualization of Security“
- Global mental mapping of the rethinking on security

○ Multi-, Inter- & Transdisciplinarity:

○ International and Diversity

- Beyond the dominant thinking of the „top billion“ of the triad

○ Dialogue: scientists and policy-makers

- Former or active policy-makers, diplomats, military officers
- Experienced scholars but also young talents

Causes of anthropogenic GEC

Supply side

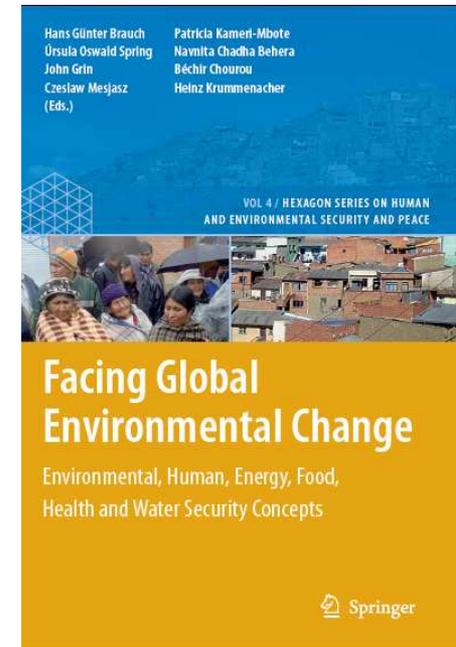
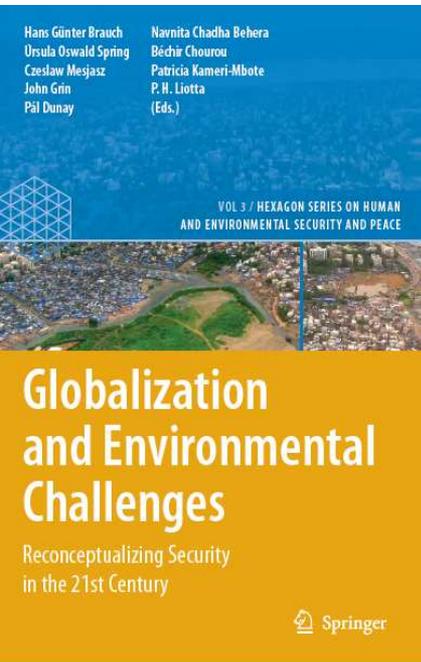
- Air: Global climate change
- Soil degrad., desertification
- Water scarcity, hydrol. cycle

Human-induced demand side ○

- Population growth
- Urbanization, Pollution, Health
- Rural systems: Agriculture

Environmental Security Handbook (ESA) for the Anthropocene

- **Globalization and Environmental Challenges:** 92 authors, 36 countries, 16 disciplines, former vice presidents, ministers, generals, diplomats (2008)
- **Facing Global Environmental Change:** 132 authors, 49 countries on global debate and problems of environmental, human, energy, food, health, water security (2009)
- **Coping with Global Environmental Change Disasters and Security – Threats, Challenges, Vulnerabilities and Risks (2010)**



Forewords by **Stavros Dimas**, EU
Environment Commissioner

Prof. Hans van Ginkel, Rector of UNU
(1997-2007);

Prof. Klaus Töpfer, Executive Director,
UNEP (1997-2006).

Forewords by **R.K. Pachauri**, TERI; IPCC
chairman, Nobel Peace Prize (2007)

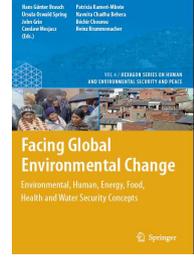
Achim Steiner, UNEP Executive director,
Joy Ogwu, former foreign minister, Nigeria

Stavros Dimas, EU Environment
Commissioner

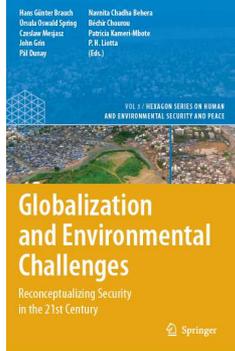


Editorial Team:

11 Co-editors from 10 Countries



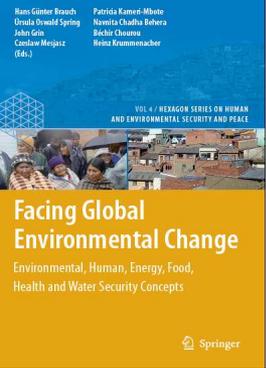
- **Hans Günter Brauch**, PD (Adj. Prof.) at the Free University of Berlin, chairman of AFES-PRESS, fellow at UNU-EHS in Bonn and editor of this series
- **Úrsula Oswald Spring**, Professor at National University, Mexi-co; UNU-EHS chair on social vulnerability; writes on sustainability, deveopment, gender, disaster, poverty.
- **Czeslaw Mesjasz**, Assoc. Professor, Vice Dean, Cracow University of Economics; publishes on systems, game theory, conflict resolution, negotiation, economics, security.
- **John Grin**, Professor, Director of Amsterdam School for Social science Research; publishes on societal transformations in water management, agriculture, health care.
- **Navnita Chadha Behera** (New Delhi), Professor at the Nelson Mandela Centre for Peace & Conflict Resolution, Jamia Millia Islamia; publishes: Kashmir, South Asian security
- **Pál Dunay** is faculty member, Geneva Centre for Security Policy, was senior researcher at SIPRI (2004-2007),director of the Hungarian Institute of International Affairs in 2007.
- **Béchir Chourou** teaches International Relations at the University of Tunis-Carthage in Tunisia,publishes on Euro-Mediterranean relations, food policy, human security.
- **Patricia Kameri-Mbote**, Associate Professor, School of Law, University of Nairobi, Chair, Dep. of Private Law, Programme Director, Intern.Environmental Law Research Centre,
- **P. H. Liotta** is Professor of Humanities and Executive Director of the Pell Center for International Relations and Public Policy, Salve Regina University, Newport, Rhode Island
- **Heinz Kruppenbacher** is managing Director of Swisspeace, heads its early warning program and is member of the UN staff college's Early Warning Preventive Measures training unit.
- **Jörn Birkmann**, Academic officer of UNU-EHS, heads the section on vulnerability assessment, coordinates Working Group on “Measuring Vulnerability”.



Reconceptualization of Security and Global Environmental Change

Three Reasons for a Reconceptualization of Security

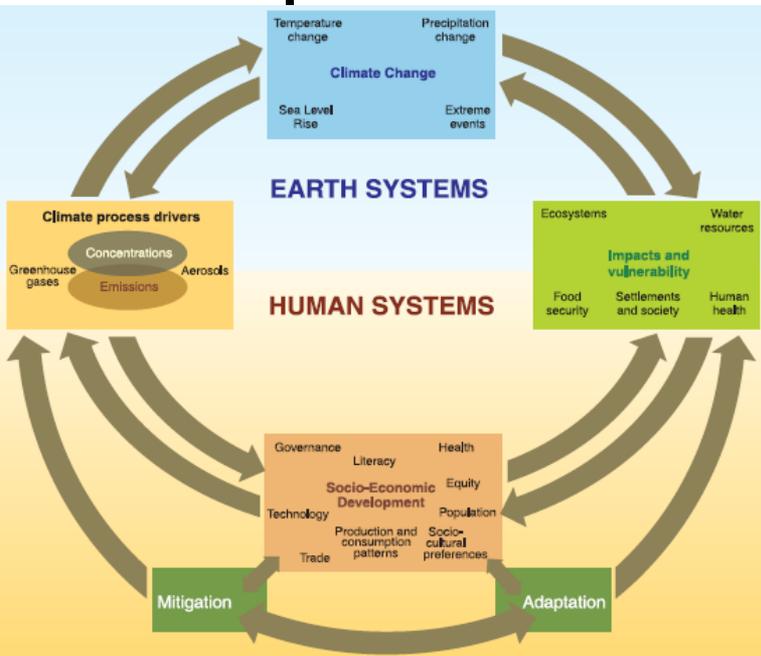
- **End of the Cold War:** Fall of Berlin Wall (9 Nov. 1989)
- **Globalization: Non-state Actors and Processes**
 - **Terrorism and organized Crime:** Weapons, Drugs, Human trafficking (children, women, organs etc.)
 - **Uncontrolled Financial transfer and Speculation:** worst global economic crisis since 1929
- **Global Anthropogenic Environmental Change**
 - **Nobel Laureate Paul Crutzen (MPI for Chemistry in Mainz): Anthropocene:** phase of Earth history since industrial revolution
 - **Goal:** Conceptual Foundations and Long-term Thinking on a new **Security and Peace Policy for the Phase of the Anthropocene**, that combines **sustainable development with sustainable peace** : Thinking beyond Brandt- (1980) and Brundtland-Reports (1987).



2 Key Themes of this Book: GEC & Sectorialization of Security (10 parts with a total of 100 chapters)

- **Facing Global Environmental Change (GEC)**
 - 1: **Contextualization of Global Environment. Change(1-3)**
 - 2: **Securitization of GEC (chap. 4-14)**
 - 3: **Securitization: Extreme Natural & Societal Outcomes**
- **Sectorialization of Security**
 - 4: Energy security (chap. 23-32)
 - **5: Food Security (chap. 33-35)**
 - 6: Health Security (chap. 36-40)
 - 7: Water Security (chap. 41-58)
 - 8: Environmental Security (chap. 59-73)
 - 9: Human and Gender-Security (chap. 74-96)
 - 10: From Knowledge to Action (chap. 97-100)

Addressing Linkages of Global Climate Change and Security



Three Schools or Approaches

- **Dramatizers:** Climate war
- **Sceptics:** lack of research (PRIO)
- **Empiricists & strategists:** Observations & future scenarios

Causal analysis

- Natural phenomena -> migration, crises, conflicts (violence)
 - 2nd phase: Homer-Dixon, Bächler
 - 4th phase: Oswald – Dalby - Brauch

Discourse analysis: climate change

- International security
- National security
- Environmental security
- Human security

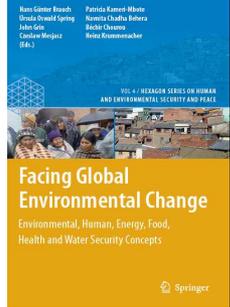
Objects of Security

Analysis (Securitization)

- Physical Effects: e.g. temp, rise
- Impacts: Sectors
- Societal Effects

Whether they pose:

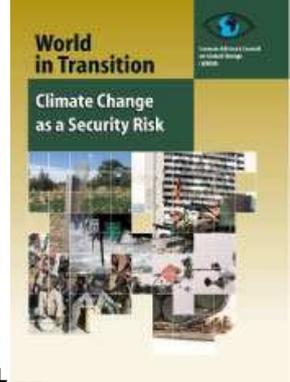
- Objective Security Dangers
- Subjective Security Concerns



Chap. 4: Securitization of Global Environmental & Climate Change

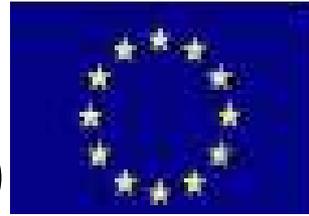
- **Not “they” but “we are the threat” of global warming**
- **3 fold debate & discourse on climate change:**
 - **Theory: Securitization of Waever (Copenhagen school):**
 - **Intersubjective approach: Security is what actors make of it**
 - An issue is declared by a “securitizing actor” as an issue “of utmost importance” that requires “extraordinary measures”
 - **2007 was the turning point for the securitization of climate change**
 - February: IPCC Fourth Assessment Report
 - April: UN Security Council
 - June: WBGU-Report: impact on EU debates
 - October: Nobel peace Prize for IPCC (Pachauri) and al Gore
 - **International Security:** British (2004), Germany (2002, 2007), European debate (2008) and debate at the UN (since 2007-)
 - **National Security:** US American Debate: since 2003/2004: 2007: new military mission for US Department of Defense
 - **Human Security:** HS Network, Greek presidency (5/ 2008)
 - **GECHS Project of IHDP: Social Vulnerability of poor & marginalized**

Discourse 1: Climate Change & International Security



- **BMU-Report 2002: Climate Change and Conflicts**
 - Goal: Agenda setting for IPCC
 - Coalition: Germany, Great Britain, Finland, Mexico
 - Focus: Small Island states, Bangladesh, Mexico, Egypt, MMR
 - OECD-Case studies: Bangladesh, Egypt, Tansania, Nepal, Fiji
- **WBGU-Report 2007-8: Security Risk Climate Change**
 - State-centred security concept
 - 4 Conflict scenarios:
 - Climate-induced degradation of drinking water
 - Climate-induced reduction of food production
 - Climate-induced of increase of storm and floods, drought and famine
 - Climate-induced migration

EU Paper: Climate Change & International Security (3/2008)



- **Climate change ... as a threat multiplier of existing trends, tensions and Instability, that overburdens fragil and conflict prone states and regions**
- **Seven intern. Security threats from climate change:**
 - 1) Resource conflicts (water, soil, food);
 - 2) Economic damage and risks for coastal cities;
 - 3) Loss of territory and border conflicts;
 - 4) Environmentally-induced migration;
 - 5) Situations of fragility and radicalization^;
 - 6) Tensions on energy supply;
 - 7) Pressure on international politics.
- **Regions, where these threatds become manifest**
 - Africa, Middle East, South Asia; Central Asia, Latin America, Arctic.
- **Central challenge: Environmental Migration**
- **December 2008: Implementation paper of ESS (2003)**
- **Roadmap Process: DG External Realties not DG Environment**



UN Debates on Climate Change and International Security

17 April 2007: UN Security Council: tabled by Ms.Beckett (UK)

<http://www.un.org/News/Press/docs/2007/sc9000.doc.htm>

<http://www.un.org/News/Press/docs/2007/sgsm10949.doc.htm>

3 June 2009: UN General Assembly Resolution:

- 1. *Invites* the relevant organs of the United Nations, as appropriate and within their respective mandates, to intensify their efforts in **considering and addressing** climate change, including its possible security implications;
- 2. *Requests* the Secretary-General to submit a **comprehensive report** to the General Assembly at its sixty-fourth session on the **possible security implications of climate change**, based on the views of the Member States and relevant regional and international organizations.

August-September 2009: submission by states (31 replies)

○ http://www.un.org/esa/dsd/resources/res_docugaecos_64.shtml

11 September 2009: Report by Ban-Ki Moon

http://www.un.org/ga/search/view_doc.asp?symbol=A/64/350



Discourse 2: Climate Change & National Security: USA

Climate changes as a threat for US national security

→ Reactive search for military answers and for new military missions of DoD: How may the impacts in other (primarily third world countries) affect US national security?

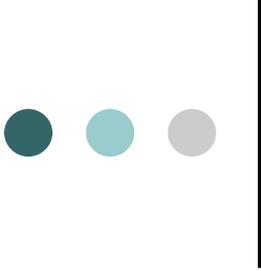
- **Pentagon study** of Schwartz/Randall: (Oct. 2003, Febr. 2004)
- **Gilman, Randall, Schwartz:** Effects of climate change: System vulnerability of possible effects up to 2050 medium scenario of temperature increase
- **March 2007: Strategic Studies Institute:** Colloquium on “global climate change: National Implications for Security”
- **March 2007:** Senators Durbin (D-IL)/Hagel (R-NE): Law on intelligence assessments on climate change impacts on national security
- **April 2007: CNA:** *National Security & the Threat of Climate Change* (April 2007): climate change as a threat multiplier in vulnerable regions for US security
- **November 2007,** *Center for Strategic and Intern. Studies (CSIS); Centre for a New American Security (CNAS): The Age of Consequences: The Foreign Policy and National Security Implications of Global Climate Change*
- **December 2008.** US National Intelligence Council: world by 2025.
- **State Department, Sept. 2009:** Response to UN GA Resolution



Discourse 3: Climate Change & Human Security



- **IHDP-GECHS** (Global env. change & human security)
 - **Symposium: climate change & human security (2005)**
 - **Synthesis conference: Research (1999-2009) in Oslo**
- **Greek Presidency of the HSN (2007/2008)**
 - **Conference in May 2008 in Athens: Final declaration**
 - **Impact of climate change on vulnerable groups: women, children, environmental migrants in developing countries**
 - **Policy paper: Climate change, human security and development**
 - **3rd pillar of human security: “freedom from hazard impact”**
- **Policy Memorandum 15 April 2007: for UN SC debate**
 - **Wisner, Brauch, Oswald Spring u.a.**
- **Debate in UN General Assembly**
 - **May 2007: human security: climate change as a threat**
 - **June 2009: Resolution on climate migration: intern. peace & security**



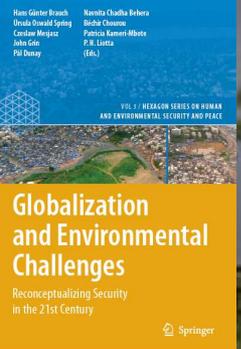
Securitization of Climate Change and the Audience

- **Successful securitization requires that the “audience” (citizens, other countries) are convinced that climate change poses security dangers of utmost importance that require extraordinary means**
 - Public opinion polls: increasing support for urgency but not yet of the need for extraordinary measures
 - UN is divided (many argue climate change is an environmental and development issue but not a security one, against UNSC)
- Three discourses on securitization of climate change refer to different referent objects and policy responses (strategies, policies and measures).
 - If **“we are the threat”** due to our economic behaviour than **non-military strategies, policies and measures** are needed for coping with it.



Security Policy in the Anthropocene: Towards a Sustainable Peace

- **Fourth phase of environmental security research:**
 - Move from environmental scarcity, degradation and stress as cause of violence to GEC issues
 - Address the human dimension of env, security
 - Reflect the HUGE impacts (gender sensitivity)
- **Towards a Policy of Sustainable Peace:**
 - Linkages between sustainable development & peace
- **Political Geoecology for the Anthropocene**
 - Earth systems science & geoecology lacks political dimens.
 - Geo: spatialization of the environmental dimension of IR
 - Ecology: linking natural science with human & social ecology



Bookaid Project for University Libraries in Third World



- **Prof. Dr. Klaus Töpfer, former Executive Director, UNEP (1997-2006)**
- “This book deserves many readers in all parts of the world, especially in those countries where university and research libraries may not be able to afford such references books.
- It is hoped that these scientific and policy-relevant messages can again be made available with the support of private foundations and donors to the young generation in the global South.”
- **Achim Steiner, Exec. Director, UNEP**
- I hope that private foundations and donors can ensure that its important ideas, debates and essential reading find their way equally onto the library book shelves of the South as well as the nations of the North.

Transfer of book gifts to the University of Nairobi, Kenya; El Colegio de Mexico, Kofi Annan Centre, Accra, Gov. Singh, Rajasthan in Jaipur, Chancellor Univ. Rajasthan PM of Guyana



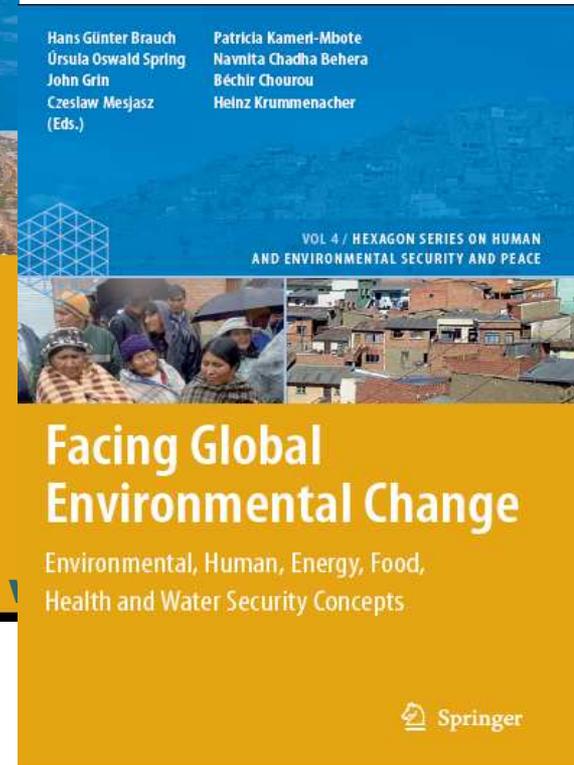
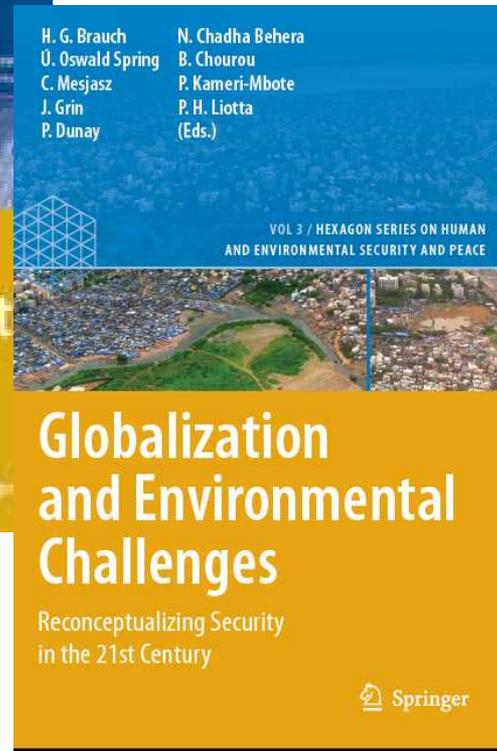
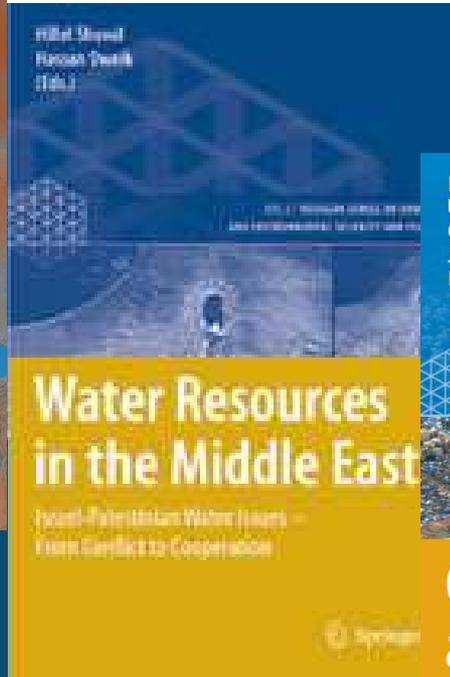
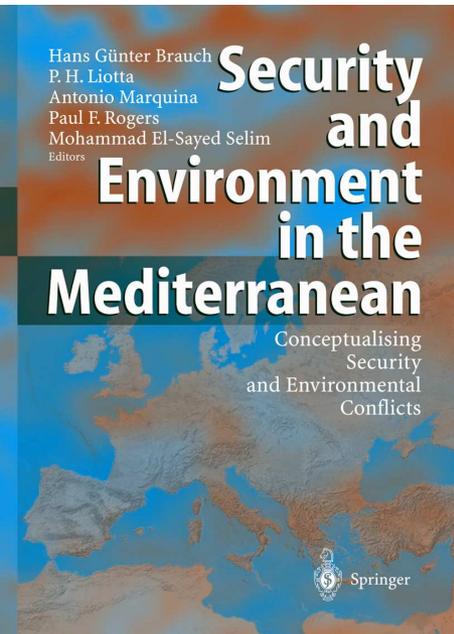
Annan Centre, Accra

Spanish, Turkish & Greek Short Editions in 2008, 2009, 2010

- Turkish Editions (2008-2009):
 - **ULUSLARARASI İLİŞKİLER** (*International Relations*) **SPECIAL ISSUE ON SECURITY**
 - **Guest Editors:** Hans Günter Brauch, Freie Universität Berlin, Mustafa Aydın, TOBB-Universität, Ankara, Türkei; Ursula Oswald Spring, UNAM/CRIM, Cuernavaca, Mexiko;
 - **Turkish book in preparation: about half are translations from Hexagon Book Series**
- Spanish Edition (2009): **UNAM - AFES-PRESS**
 - **Ursula Oswald Spring & Hans Günter Brauch** in cooperation with: **Ulrich Albrecht**, Eugenio Diniz, Ann Masson, Domício Proença Jun., Francisco Rojas Aravena, Georgina Sánchez, John Saxe Fernández, Arlene Tickner, Ole Wæver, S. Dalby:
Reconceptualizar la Seguridad en el Siglo XXI (Mexico D.F. – Cuernavaca: UNAM/CRIM, May 2009)
- Greek Editions (2010): **2 Editions of Agora**
 - **Guest editor:** HG. Brauch, U. Oswald Spring, Charalambos Tsardanidis und Botschafter a.D. Yannis Kinnas



Hexagon Series: Volumes I -IV



Hexagon Series on Human, Environmental Security and Peace (HESP)

<http://www.afes-press-books.de/html/hexagon.htm>

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Contact: <brauch@onlinehome.de>**