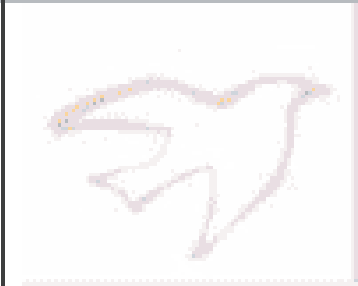


THE UNIVERSITY OF
SYDNEY



**Centre for Peace &
Conflict Studies**



23rd IPRA Conference Sydney, 9 July 2010, 18.00-19.30
On the Fringe: Book Launch

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

Hans Günter Brauch

Adj. Professor, Free University of Berlin, Otto-Suhr Institute, Berlin
Chairman, Peace Research and European Security Studies

Editor, Hexagon Series on Human, Environmental Security & Peace

Senior Fellow, Institute on Environment and Human Security of United Nations
University (UNU-EHS), Bonn



Hans Günter Brauch
Ursula Oswald Spring
John Grim
Czesław Mesjasz
(Eds.)

Patricia Kamen-Mbote
Navmita Chadha Behera
Béchar Chourou
Heinz Krummenacher

VOL 4 / HEXAGON SERIES ON HUMAN
AND ENVIRONMENTAL SECURITY AND PEACE



**Facing Global
Environmental Change**

Environmental, Human, Energy, Food,
Health and Water Security Concepts



**UNITED NATIONS
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and Human Security

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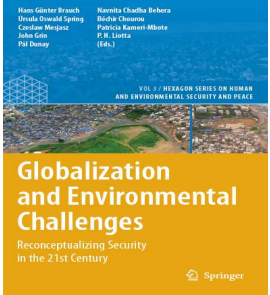
Contents

- 1. Reasons for Reconceptualization of Security**
- 2. Goal: Global Mapping of the Rethinking on Security**
- 3. Hexagon Series: Human & Environmental Security & Peace**
- 4. Global Environmental & Human Security Handbook**
- 5. Facing Global Environmental Change: *Environmental, Human, Energy, Food, Health and Water Security Concepts***
- 6. Environmental Security: Four Phases of Research**
- 7. Human Security: Four Pillars**
- 8. Global Climate Change Impacts for International, National and Human Security**
- 9. Conclusions: From Knowledge to Action**
- 10. Policy Vision & Perspective for the UN & EU: Towards a Sustainable Peace with a Fourth Green Revolution &**



1. Goal: Global Mapping of the Rethinking on Security

- 1. “Reconceptualization of Security” has occurred, matters and is highly policy relevant for (inter)national policy**
- 2. Contextual change and conceptual innovation**
- 3. Since 1990 there has been a widening, deepening, sectorialization of security concepts**
- 4. Goal: Global conceptual mapping of the rethinking of concepts & redefinition of tasks**
- 5. Main focus on the environmental dimension of human security in multilateral contexts**
- 6. Means: conceptual research and dialogue**
- 7. Result: 270 peer reviewed chapters by about 300 scholars and practitioners from 100 countries**



1. Contextual Change or Conceptual Innovation? Reasons for Reconceptualization of Security

- **End of the Cold War:** Fall of Berlin Wall (9 Nov. 1989)
- **Globalization: Non-state Actors and Processes**
 - **Direct Violence: Terrorism & organized crime:** weapons, drugs, human trafficking (children, women, organs etc.)
 - **Structural violence: Uncontrolled financial transfer & speculation:** effects due to kind of “structural terrorism”
- **Global Anthropogenic Environmental Change**
 - **Nobel Laureate Paul Crutzen: Anthropocene:** phase of Earth history since industrial revolution
- **Goal: Conceptual Foundations & Long-term Thinking on a new Security and Peace Policy for Anthropocene,**
 - **Goal: sustainable development with sustainable peace.**
 - **Requires: “Fourth Green Revolution with Decarbonization”**



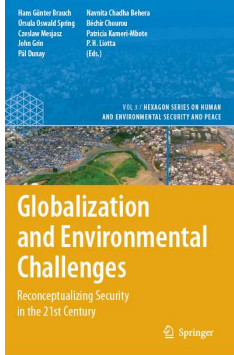
2. Conceptual Innovations in the Social Science Discourse on Security

Objective, subjective, intersubjective security

- **Wolfers (1962)** pointed to two sides of the security concept: "Security, in an **objective sense**, measures the **absence of threats to acquired values**, in a **subjective sense**, the **absence of fear that such values will be attacked**".
- From a constructivist approach in international relations 'security' is the outcome of a process of social & political interaction where social values & norms, collective identities % cultural traditions are essential. Security: **intersubjective** or "**what actors make of it**".

Three schools of conceptual innovation in Europe

- **Copenhagen school:** Buzan, Wæver, De Wilde: On security (1998)
 - Buzan's: widening & deepening; **Ole Wæver's** securitization theory
- **Aberystwyth: Critical security Studies:** Ken Booth
- **Paris: Merging international and national security:** Didier Bigo



2.1 Why: Reconceptualization of Security? Reasons: Threefold Contextual Change

3 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).



2.2 Conceptual Innovations in the Social Science Discourse on Security

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- **Wolfers (1962)** pointed to two sides of the security concept: “Security, in an **objective sense**, measures the **absence of threats to acquired values**, in a **subjective sense**, the **absence of fear that such values will be attacked**”.
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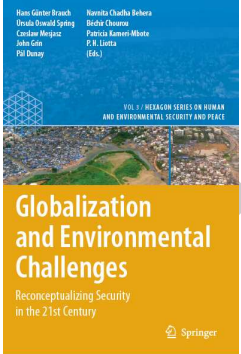
2.3. Theories of Securitization and of Global Risk Society

Ole Wæver's Securitization Theory (1995)

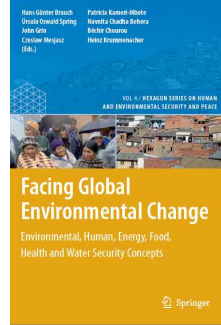
- Copenhagen school security as a **“speech act”**, “where a securitizing actor designates a threat to a specified reference object and declares an existential threat implying a right to use extraordinary means to fend it off”.
- Such a process of **“securitization”** is successful when the construction of an “existential threat” by a policy maker is socially accepted and where “survival” against existential threats is crucial.
- Major contribution to conceptual emancipation and vitality of European scholarship from US conceptual dominance during Cold War period

Ulrich Beck's (World) Risk Society (1986, 1999-2007: globalization of uninsurable risks



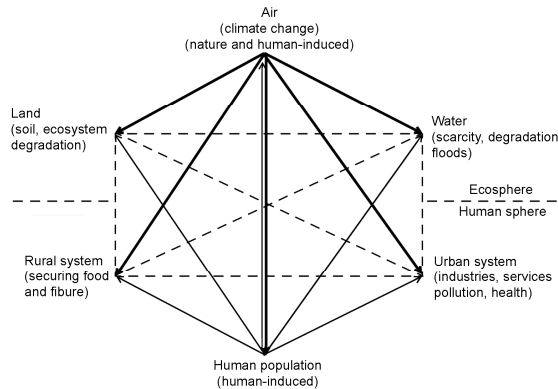


Buzan: Widening, Deepening and Sectorialization of Security Threats, Challenges, Vulnerabilities & Risks



Security dimension ► Level of interaction ▼	Military	Political	Economic	Environmental ▼	Societal
Human ►			Securing soil, water, food, health, livelihood and energy for human beings combining all levels of analysis & interaction		
Village/Community/Society			▼▲		
National	Security dilemma of states	Social, energy, food, health, livelihood and soil threats may pose a survival dilemma in areas with high vulnerability			
International/Regional/Global	Security of the territory				
			▼▲		

3. 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

6 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

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 & 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

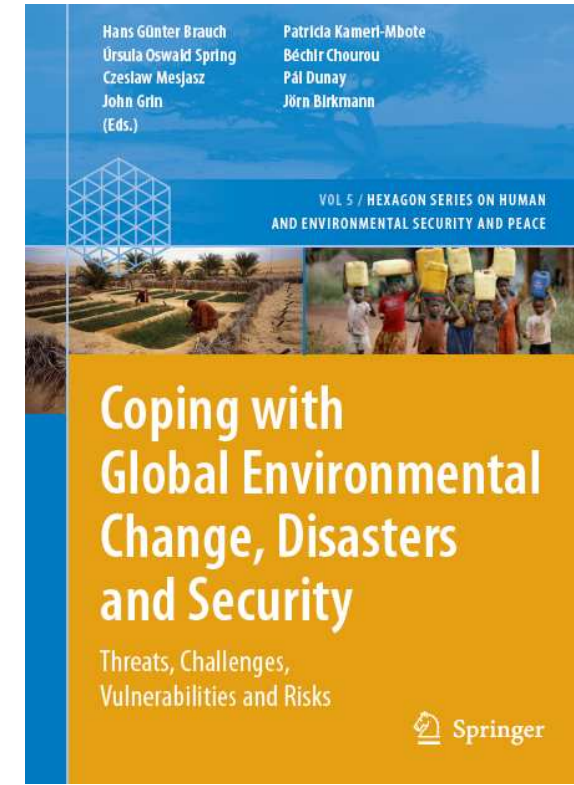
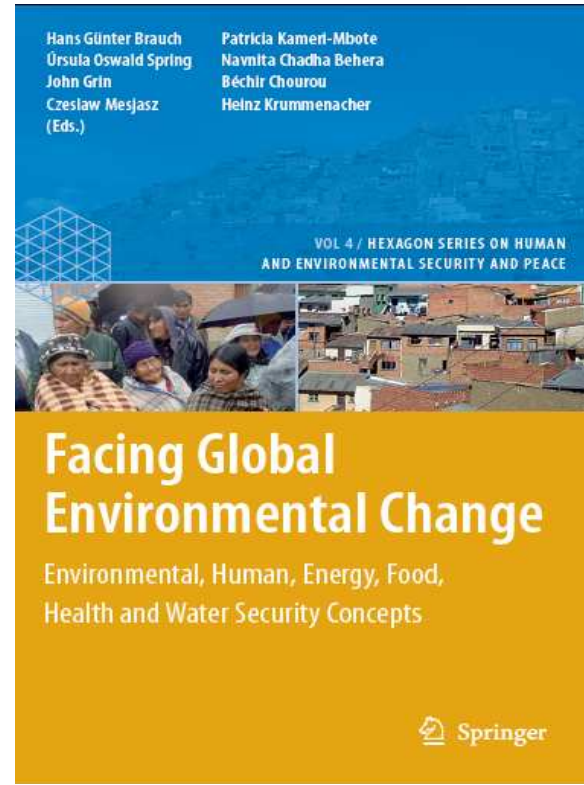
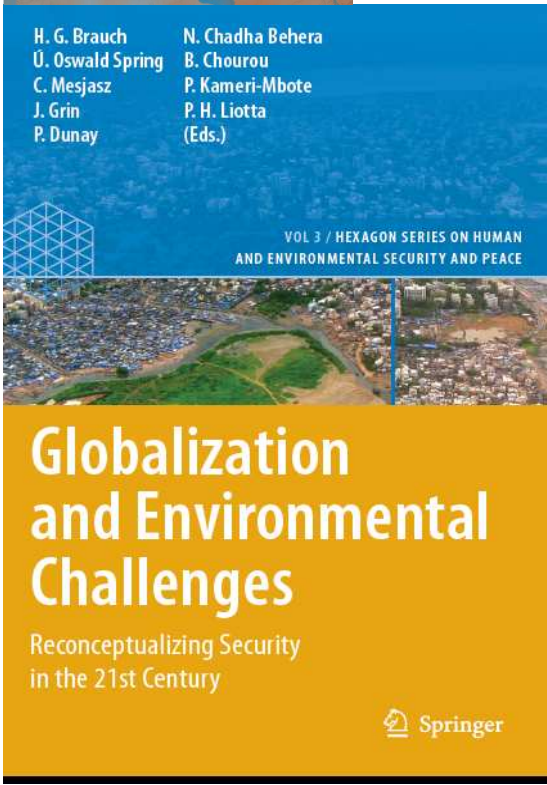
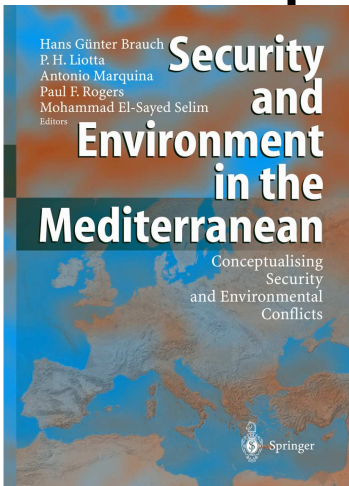
- Beyond the dominant thinking of the „top billion“ of the triad

○ Dialogue: scientists and policy-makers

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

Hexagon Series: Volumes I-V

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





3.2. Hexagon Series: Volumes V - IX in Preparation

To be published in 2010

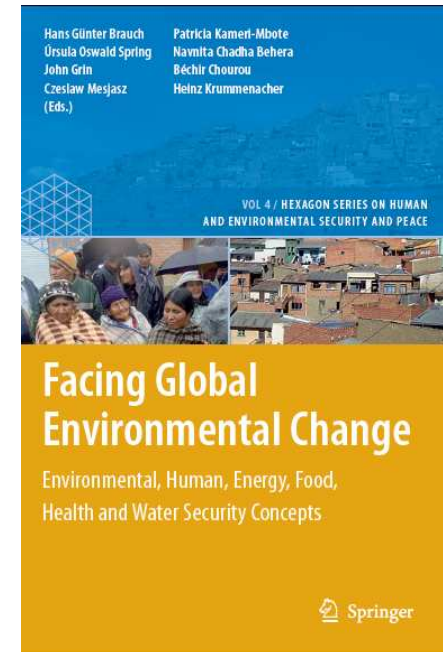
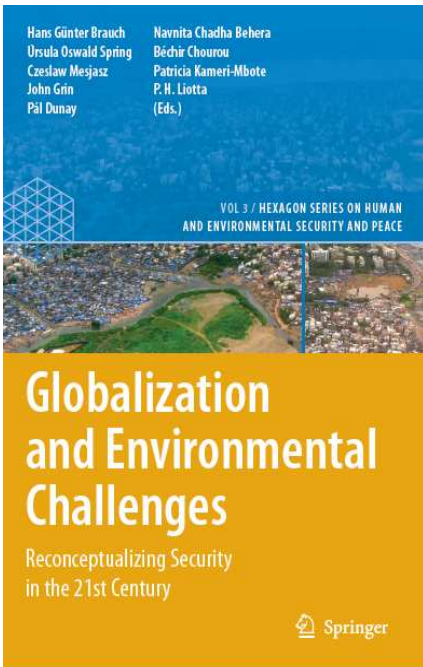
- **Vol. 5:** Hans Günter Brauch, Úrsula Oswald Spring, Czeslaw Mesjasz, John Grin, Patricia Kameri-Mbote, Béchir Chourou, Pal Dunay, Jörn Birkmann (Eds.): *Coping with Global Environmental Change, Disasters and Security – Threats, Challenges, Vulnerabilities and Risks.*
- **Vol. 6:** ThanhDam Truong, Des Gapter (Eds.): *Transnational Migration: The Migration - Development – Security Nexus.*
- **Vol. 7:** Úrsula Oswald Spring (Ed.): *Water Resources in Mexico.*

To be published in 2011

- **Vol. 8:** Jürgen Scheffran, Michael Brzoska, Hans Günter Brauch, Peter Michael Link, Janpeter Schilling (Eds.): *Climate Change, Human Security and Violent Conflict: Challenges for Societal Stability*
- **Vol. 9:** Czeslaw Mesjasz: *Stability, Turbulence or Chaos? Systems Thinking and Theory and Policy of Security*

4. Global Environmental & Human Security Handbook for the Anthropocene (GEHSHA)

- **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

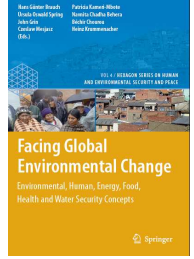
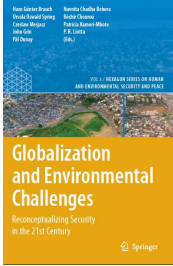
Prof. Hans van Ginkel, Rector of UNU (1997-2007);

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



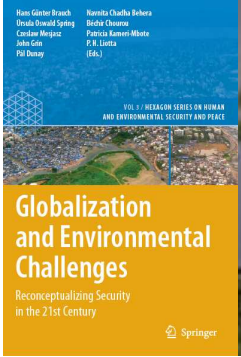
4.1. Editorial Team: 11 Co-editors from 10 Countries

- **Hans Günther 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 Kruppenacher** 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”.

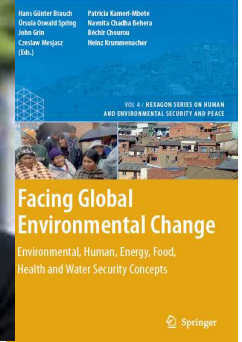


Spreading the Global Messages: Translation & Bookaid

- **Translations: Spanish, Turkish & Greek (others are possible depending on local partners)**
- **Bookaid Project:**
 - **2004: 260 books to more than 90 countries**
 - **2008: Modest Start: Local Savings Bank & author**
 - **2009: 100 copies purchased/distributed by DAAD**
 - **2010: 150 copies of vol. 1 & 2 of GEHSHA to 110 University and National Libraries in 69 countries in Africa, Asia & Latin America (value of 40.000 €)**
 - **2011: Fundraising: for sending 100-500 boxes (300-1500 books)**



4.2. Bookaid Project for University Libraries in Third World



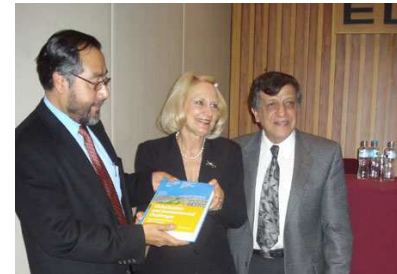
Transfer of book gifts to the University of Nairobi, Kenya; El Colegio de Mexico, Kofi Annan Centre, Accra, Gov. Singh, Rajasthan in Jaipur, Chancellor Univ. Rajasthan PM of Guyana

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.”

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.
- German Academic Exchange Service:
 - 100 copies of vol. IV
- Federal Ministry for Education & Science
 - 75 copies of vol. III and IV (150)

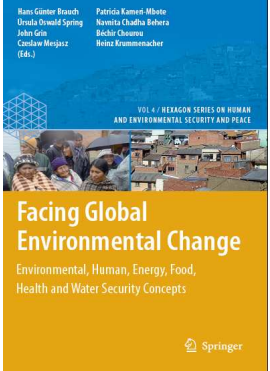


Annan Centre, Accra

4.3. 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, Rector, Private University, Istanbul, Türkei; Ursula Oswald Spring, UNAM/CRIM, Cuernavaca, Mexico;
 - **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 editors: HG. Brauch, U. Oswald Spring, Charalambos Tsardanidis and Amb. Yannis Kinnas
- **Arab edition in discussion & fundraising**





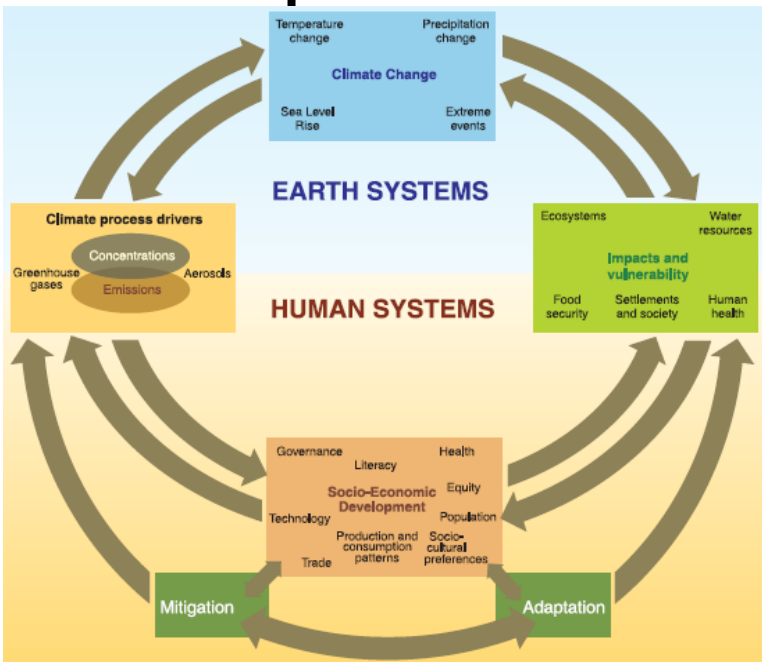
5. Two Key Themes of this Book: GEC & Sectorialization of Security

- **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)

5.1. Global Environmental Change: Issues of sustainable development

- **Scientization:** agenda-setting, networking, research
 - Since 1970's: conferences, agenda setting
 - Since 1980s & 1990s: 4 research programmes: WCRP, IGBP, IHDP & Diversitas, since 2001: Earth Systems Science Partnersh
- **Politicization:** 1992 Rio de Janeiro (UNCED), 2002 (UNSSD)
 - UNFCCC, CBD, UNCCD and water regime (WWF, WWW, GWP)
- **Securitization:** Since 2000 of water, since 2002 of climate change and since 2003/2009 of desertification & soil but not yet of biodiversity

5.2. Addressing Linkages of Global Climate Change and Security



Three Schools or Approaches

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

Causal analysis

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

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



6. Policy Vision & Perspective: Towards Sustainable Peace & Fourth Green Revolution

- Goal of a stabilization of climate change at a 2°C increase in global average temperature by 2100:
 - -50% global reduction of GHG, or 80% for OECD countries
 - Major transformation and decarbonization of the economy
- Combination of sustainable development strategy & peace policy: sustainable peace to prevent that GEC issues pose a threat to international peace.
- Fundamental transformation with a demilitarization of security is needed not a militarization of the environment: We are the threat & solution.



7. 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



8. Summary

- Since 1989 a major reconceptualization of security has taken place globally due to a contextual change.
- One theoretical innovation was used for the global mapping of security: theory of securitization.
- Thesis: Since 1994 a major shift has occurred from state-centred to human security concepts: from national and international security to a *people-centred* concept of human security.
- The human security concept is both a new analytical and a political concept that is widely used in policy declarations in the UN system.
- Results of securitization of Climate change is mixed:
 - Climate change has been declared as a threat of utmost importance
 - But not extraordinary measures have been launched to cope with the impacts of GEC and global climate change
 - Many policy makers have too easily become victims of the structural terrorism of the global banking crisis



9. Conclusions: From Knowledge to Action

- Empirical Knowledge on climate change and security is needed
- **Three schools of thought:**
 - **Climate determinists:** climate change will lead to future wars
 - **Climate sceptics:** No evidence in peer reviewed quantitative literature
 - **Climate empiricists:** need qualitative case study literature
- **Four scientific approaches:**
 - **Causal analysis:** linkages between earth & human systems
 - **Perception and discourse analysis**
 - **Empirical analysis**
 - **Trend and scenario analysis of conflict constellations**
- **From reactive to proactive policies**
 - **Prevention of violent escalation of conflict potentials in the framework of specific conflict constellations**

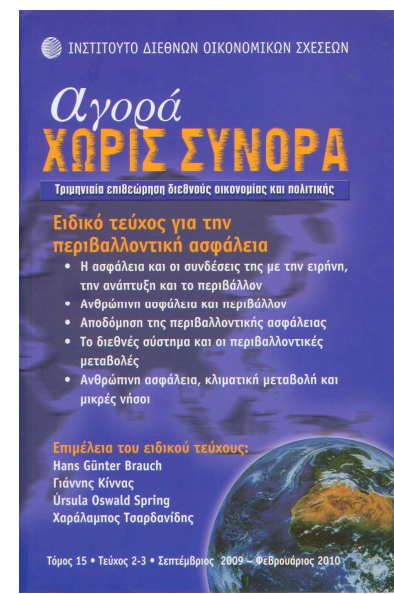
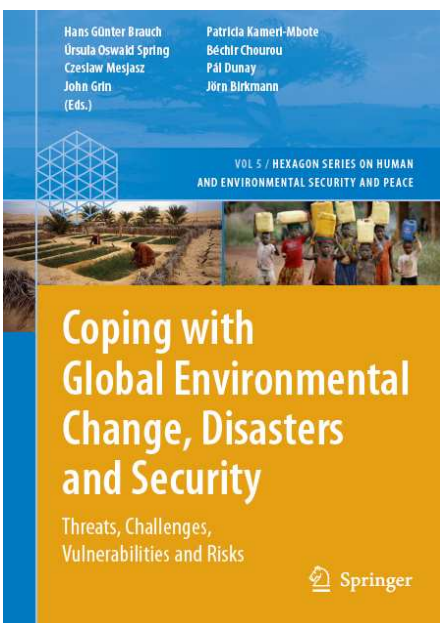
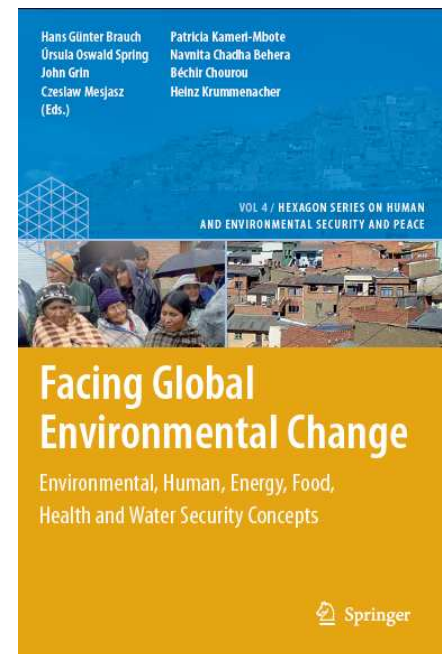
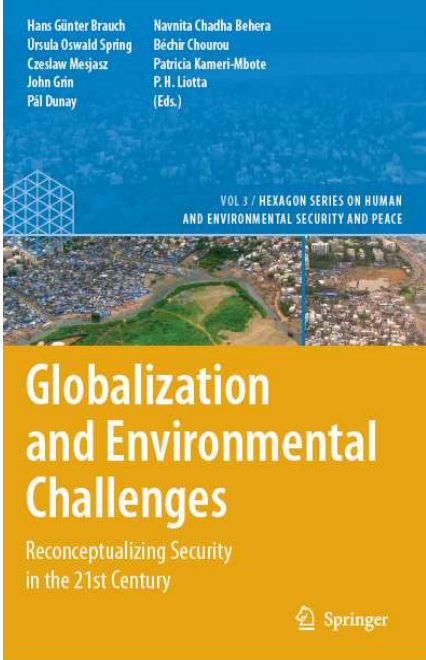
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for your attention
and patience.**



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[http://www.afes-press-books.de/html/
hexagon_04_PressConf_Presentations.htm#hamburg](http://www.afes-press-books.de/html/hexagon_04_PressConf_Presentations.htm#hamburg)
Contact: <brauch@onlinehome.de>**

GEHSHA

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



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at: <http://www.ehs.unu.edu/category:16?menu=35>

at: <http://www.ehs.unu.edu/category:17?menu=36>



Environment and Human Security Towards Freedom from Hazard Impacts

Hans Günter Brauch

Gender and Disasters Human, Gender and Environmental Security: A HUGE Challenge

Úrsula Oswald Spring

SOURCE

'Studies Of the University: Research, Counsel, Education' - Publication Series of UNU-EHS

No. 8/2008



Threats, Challenges, Vulnerabilities and Risks in Environmental and Human Security

Hans Günter Brauch

SOURCE

'Studies Of the University: Research, Counsel, Education' - Publication Series of UNU-EHS

No. 1/2005

InterSecTions

'Interdisciplinary Security ConnecTions'
Publication Series of UNU-EHS

No. 2/2005

Free Publications of UNCCD

Spanish:<http://www.unccd.int/knowledge/docs/dldd_sp.pdf>

English:<http://www.unccd.int/knowledge/docs/dldd_eng.pdf>

- **Úrsula Oswald Spring - Hans Günter Brauch**
Seguritizar la Tierra
Aterrizar la Seguridad
- **Hans Günter Brauch - Úrsula Oswald Spring**
Securitizing the Ground-
Grounding Security

