

HEALTH IMPACT ASSESSMENT OF GLOBAL ENVIRONMENTAL CHANGE (Spring Semester, 2009)

Dr. Jonathan Patz, course director

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Office hours: by appointment – Check my schedule at: http://ical.mac.com/sage_group/Patz

Be sure to **hit ‘refresh’ first**, since my calendar changes daily

Also, please cc my assistant, Isabella Lau: islau2@gmail.com

DAYS & TIME : Mon and Wed. 2:45 – 4:00pm

LOCATION: Room [CSC G5/152](#)

Course Website: Readings and Powerpoint slides are at [Learn@UW](#)

NOTE: begin ALL email correspondence with, “PHS 740” at start of subject line! (or I may miss your email)

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Course Outline

Section I. Assessment Frameworks & Intro to Environmental/Occupational Health

		<u>Faculty</u> (UW unless indicated)	<u>Book chapters & papers*</u>
1. 1/21/09	Course Overview and Orientation to Team Projects (& proj. mapping tool)	Jonathan Patz	
2. 1/26/09	Intro. to Environmental Health: Local to Global Scales / Simple to Complex Exposures	Jonathan Patz	Frumkin: Chap. Introduction
3. 1/28/09	Introduction to Toxicology & Environmental Health Regulations	Jonathan Patz	Frumkin: Chap. 2 & 33

[NEWS ARTICLE PORTFOLIO SUMMARIES DUE](#)

4. 2/02/09	Environmental Epidemiology	Jonathan Patz	Frumkin: Chap. 3 & 4
5. 2/04/09	Introduction to Risk Assessment and Health Impact Assessment: I	Jonathan Patz	Frumkin: Chap. 32, 29, 6
6. 2/9/09	Introduction to Risk Assessment and Health Impact Assessment: II <i>1st DRAFT HIA SCOPING, THOUGHT MAPS & JUSTIFICATION FOR TEAM PROJECT -DUE</i>	Burton Singer	Frumkin: Chap. 32, 29, 6

Section II. Environmental Health Tool Kit

7. 2/11/09	Introduction to GIS (I) – Epi Info	Rachel Klos (WI State Health Dept.)	Frumkin: Chap. 31
8. 2/16/09	Environmental Health Tracking Program	Kristen Malecki (WI State Health Dept.)	Frumkin: Chap. 4
9. 2/18/09	Introduction to GIS (II) – Satellite Remote Sensing applications to health	Mutlu Ozdogan	TBD
10. 2/23/09	Online Databases / Review for Quiz	Patz & Kirby	TBD
11. 2/25/09	In-class QUIZ (<i>based on reading assignments and lectures</i>)		
12. 3/02/09	HIA and chronic disease / Developed Countries (plus active listening exercise)	Jonathan Patz	Frumkin: Chap. 16 & 17
13. 3/04/09	HIA and infectious diseases/ Developing Countries	Katie Dickinson	Frumkin: Chaps. 13 & 18

Section III. Global Environmental/Ecological Change and Health

14. 3/09/09	Energy and Health: Co-benefits and Unintended Consequences	Jonathan Patz	Frumkin: Chaps. 14 & 15
15. 3/11/09	Team Presentations of their Draft HIA (Group to group presentation & feedback) <i>DUE: 1-2 page rationale, UPDATED thought map & outline team project and team strategy to cover full HIA of your topic</i>		
	SPRING BREAK (Consider Reading Walters' book over break –an easy read)		
16. 3/23/09	Environmental justice: from Local to Global	Jonathan Patz	Frumkin: Chaps. 8 & 11
17. 3/25/09	Case studies in land use and disease ecology: from dams to deforestation	Jonathan Patz	Paper: Patz, Daszak et al. Aron & Patz: Chap. 10
18. 3/30/09	Film: <i>Hot Zones</i>	Miles Kirby (TA)	
19. 4/01/09	Ecosystem health: human-induced impacts facilitating the emergence of wildlife and human diseases	Kurt Sladky (Vet Med)	Frumkin: Chap. 1 Papers: Daszak et al; CAST Task Force
20. 4/06/09	Emerging Zoonotic Diseases from Interspecies Transmission	Tony Goldberg	Walters Book and TBD
21. 4/08/09	Group Meetings for HIA Assignment		
22. 4/13/09	Disaster Preparedness	Marvin Birnbaum	Frumkin: Chap. 26
23. 4/15/09	HIAs in Global Governance: Challenges in meeting the Millennium Development Goals (MDGs) <i>HOMEWORK ASSIGNMENT DUE (re Millennium Development Goals)</i>	Jonathan Patz	Millennium Project report

Section IV. Communicating the Science: a Mini ‘Aldo Leopold Leadership Training Program’

24. 4/20/09	Leadership skills towards bridging science and policy	Jonathan Patz	Frumkin: Chap. 34 Paper: Lubchenco
25. 4/22/09	Communicating to policy makers and the public: The “Message Box”	Jonathan Patz	TBA
26. 4/27/09	STUDENT ‘PRESS’ INTERVIEWS (<i>Use your prepared Message Box, then turn it in</i>) <i>* WHITE PAPERS & MESSAGE BOXES DUE TODAY, 4/27/07 *</i>		
27. 4/29/09	STUDENT PRESENTATIONS		
28. 5/04/09	STUDENT PRESENTATIONS		
29. 5/06/09	STUDENT PRESENTATIONS		

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* Textbook and Readings:

REQUIRED

- 1) TEXTBOOK – Howard Frumkin. **Environmental Health: From Global to Local**. Jossey-Bass, 2005 (required).
- 2) Mark J. Walters. *Six Modern Plagues – and how we are causing them*. Island Press, 2003 (required) [NOTE: it’s a short and very fast read!].
- 3) Readings: supplemental readings are available at the Learn@UW course website

Related Optional texts:

- 4) Tony McMichael, *Human Frontiers, Environments and Disease: Past patterns, uncertain futures*. Cambridge University Press, 2001.
- 5) Joan Aron & Jonathan Patz (eds). *Ecosystem Change and Public Health: A global perspective*. Johns Hopkins University Press, 2001.

NOTE: additional papers for guest lecturers will be added to the website when available in PDF