The Berlin Eelpout Workshop aims to discuss results from recent studies and thus create a comprehensive overview the current state of eelpout research.

The Environmental Specimen Bank

As early as 1985, the German Environmental Specimen Bank (UPB) began to systematically collect environmental and human tissue specimens annually and to store them under controlled conditions. This material is available to the Federal Environment Agency to be used at any time and thus serves as a memory of past pollutant exposures. For example, the archived herring gull eggs provide information about the accumulation of chemicals in shorebirds in Germany. Human tissue such as blood, hair and urine specimens are also stored in the UPB in order to secure evidence of current and past exposures. In this way, the Federal Environment Agency can combine what are now some 400,000 archived specimens into a comprehensive safety net for environment and health protection.

Eelpout (Zoarces viviparus)

The eelpout has been proposed by both HELCOM and OSPARCOM as one of the favourite sentinel species for monitoring of the impacts of marine environmental pollution. The German Environmental Specimen Bank also selected the eelpout as a bioindicator for the presence of potential hazardous substances in the marine environment.

The R&D Project 'Eelpout'

The UPB is funding the Institute for Applied Ecology Ltd (IFAÖ) to investigate the prevalence of gonadal disorders in eelpout, i.e. intersex and oval degeneration. In 2006 eelpout was sampled at three regular UPB sampling stations in both the North Sea and the Baltic. In spring 2008 the study was repeated and expanded with gonad samples from three additional sampling sites. In both studies the macroscopic examination of ovaries revealed a sur-prisingly high frequency of atretic follicles and oocytes. Intersex was observed at all stations sampled in 2006 and 2008.

EELPOUT MONITORING

Environmental Specimen Bank Workshop

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ral Environment Agency

Umwelt **Bundes** Amt Für Mensch und Umwel

Umwelt Bundes Für Mensch und Umwelt



EELPOUT WORKSHOP - AGENDA

Monday, September 7th

- 13:00 Welcome address Andreas Gies Umweltbundesamt
- The German Environmental Specimen Bank 13:15 Jan Koschorreck Umweltbundesamt
- 13:35 Experiences from sampling eelpout Roland Klein University Trier
- 13:55 Temporal and spatial chemical data for eelpou in German North- and Baltic Sea Heinz Rüdel Fraunhofer Gesellschaft
- 14:25 Marine strategies for integrated monitoring Thomas Maes Centre for Environment, **Fisheries and Aquaculture Science**
- 14:55 Developing integrated chemical-biological monitoring of hazardous substances in the Baltic Sea Kari Lehtonen Finnish Environment Institute (SYKE)

15:25 coffee break

- 15:50 **Results from eelpout** monitoring at the German coast Jens Gercken Institute for Applied Ecology Ltd
- Eelpout and high politics what 16:30 biomarkers can do for legislation Caroline Hoffmann Council of the Baltic Sea States
- From science to regulation- A view 17:00 on marine chemical monitoring Colin Moffat Marine Scotland

17:30 End of day 1

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		13:15	
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lesday, September 8th

Introduction day 2 Marike Kolossa-Gehring Umweltbundesamt

monitoring in Estonia Arvo Tuvikene University of Life Sciences monitoring in Sweden Lars Förlin

University of Gothenburg onitoring in Denmark Jakob Strand

> onal Env. Research Institute coffee break

The Balcofish Project Lars Förlin University Gothenburg

Outlook 1: Molecular Biomarkers Joakim Larsson University Gothenburg

> Outlook 2: Climate change Markus Quack University Trier Discussion

End of day 2

Lunch

WHERE?

Hessische Landesvertretung (Permanent Representation of the Land Hesse) In den Ministergärten 5, D- 10117 Berlin

The conference site is located in the historical centre of Berlin, close to Brandenburg Gate and Potsdamer Platz.



WHEN?

September 7th 13:00h - 17:30h September 8th 09:00h - 14:00h

HOW CAN YOU PARTICIPATE?

Please use the form below and send your registration to post-II12@uba.de or fax +49 340 2104 1603 Reply is kindly requested latest by August 30th, 2009

ACADEMIC TITLE

NAME, FIRST NAME	
INSTITUTE	
ADDRESS	
PHONE	
E-MAIL	