



Das Lebensministerium



Flood Risk Management in the Transnational Elbe Basin – the ICPE as Platform for Co-operation

SAVA Workshop Zagreb November 2006

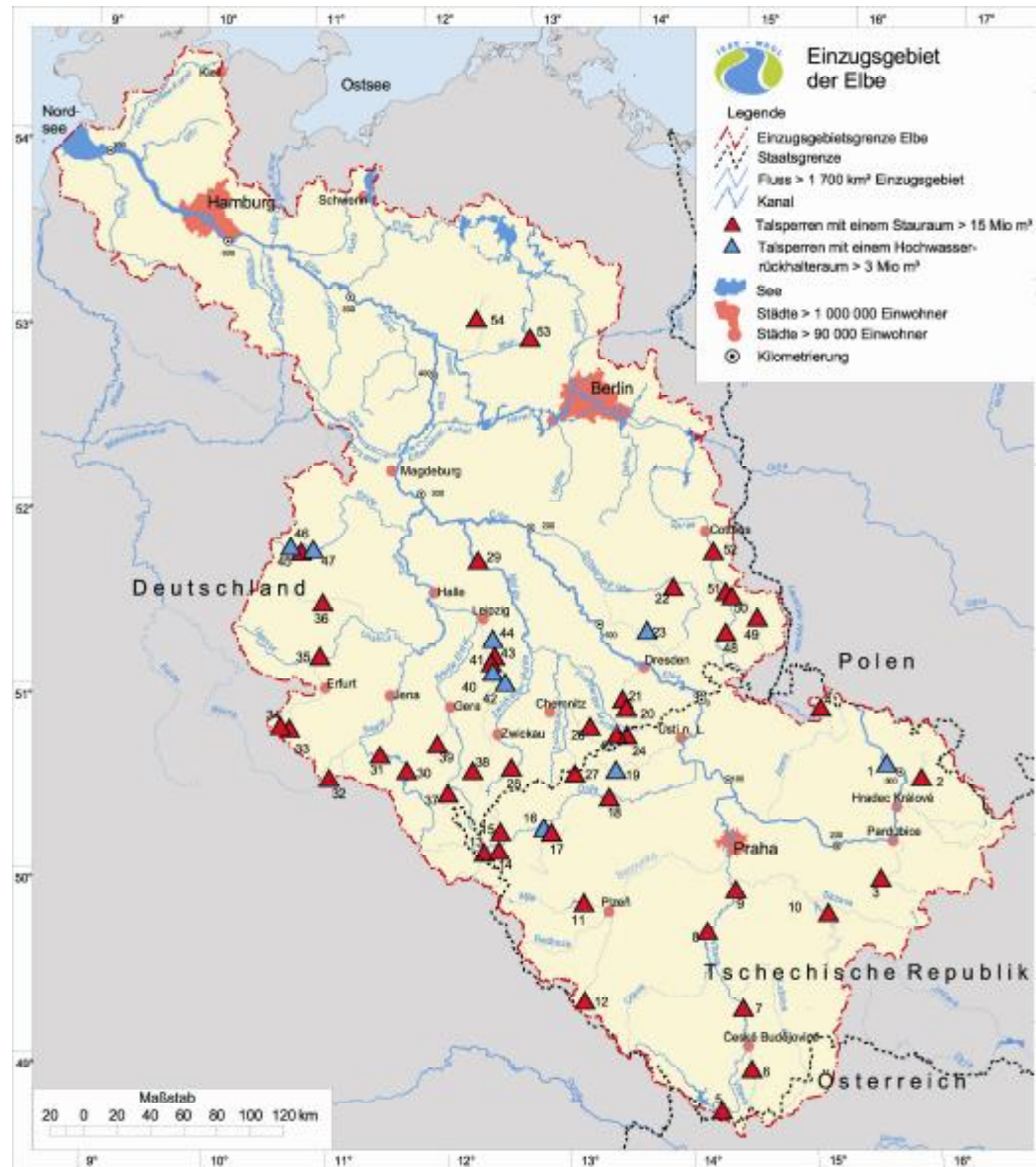
Freistaat  Sachsen

Sächsisches Staatsministerium für Umwelt und Landwirtschaft

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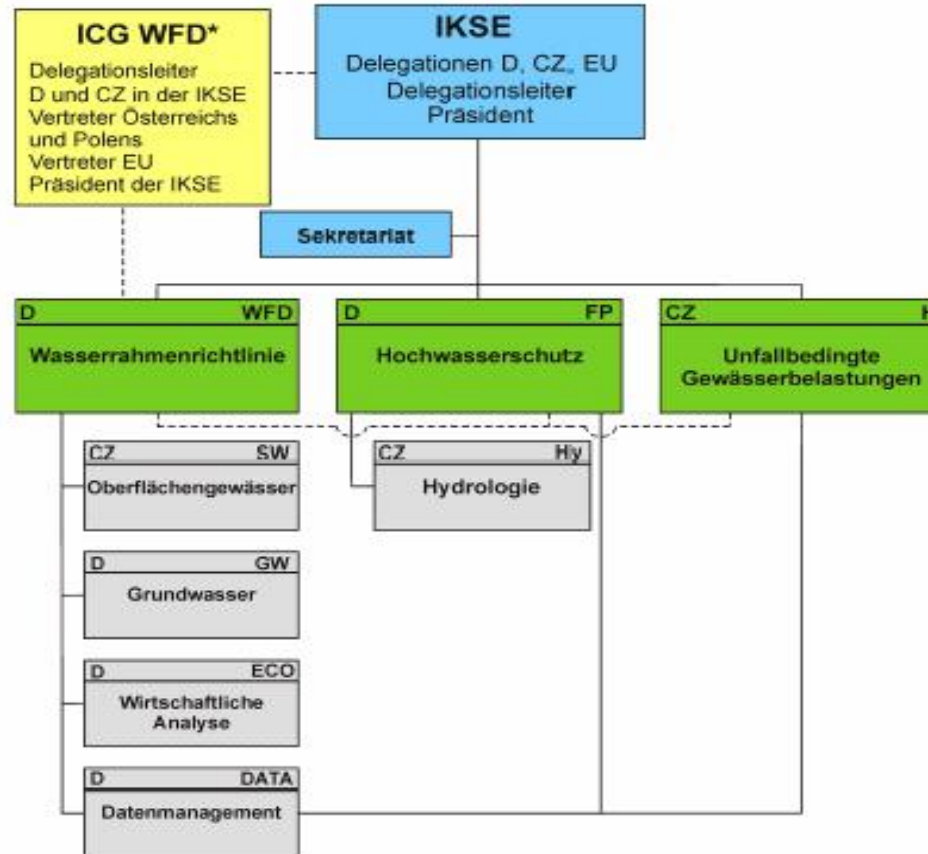




I. ICPE Structure

(Stand: September 2005)

and Organisation

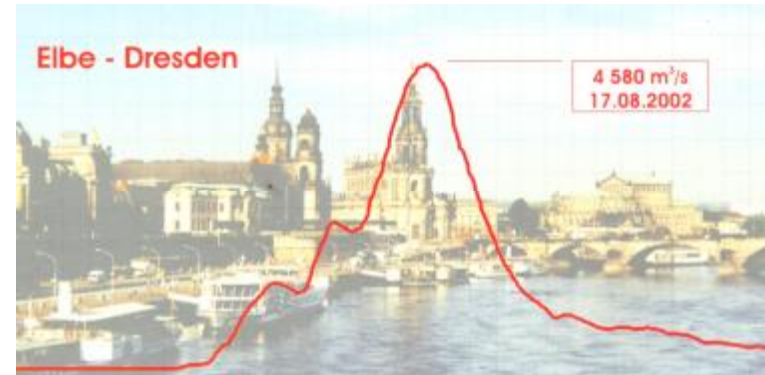
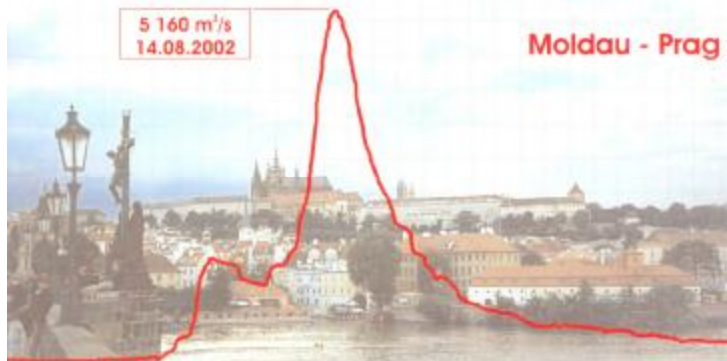


* Die Internationale Koordinierungsgruppe „EG-Wasserrahmenrichtlinie im Einzugsgebiet der Elbe“ (ICG WFD) ist kein Bestandteil der Struktur der IKSE. In der Internationalen Koordinierungsgruppe ICG WFD haben die Vertreter der einzelnen Staaten im Einzugsgebiet der Elbe (Deutschland, Tschechische Republik, Österreich, Polen) im Unterschied zur IKSE, in der die Vertreter Österreichs und Polens den Status von Beobachtern haben, eine gleichberechtigte Stellung.





Internationale Kommission zum Schutz der Elbe
Mezinárodní komise pro ochranu Labe



Aktionsplan Hochwasserschutz Elbe



Mandate Working Group „Flood Protection“ (FP) ICPE (September 2005)

-Co-ordination of flood protection measures in the Elbe River Basin and strong co-operation with Working Group „Water Framework Directive“



1. Transposition of Best Practice Document on Flood Protection for the transnational Elbe Basin, exchange and co-operation within the river basin and with other river basin organisations in Europe
2. Improvement, up-dating and up-grading trans-national flood forecasting system, such as prolongation of forecast time up to 60 hours for the Elbe between CR and Saxony
3. Transposition of ICPE Action Plan Flood Protection and support of competent national authorities

4. Compilation and common agreement regarding basic hydrological data and data collection for the trans-national river basin
5. Reporting about state of transposition of ICPE Action Plan Flood Protection
6. Integration of Research Institutions concerned with scientific work on floods with special focus on the trans-national Elbe River Basin
7. Opening of the work and the results of ICPE WG FP for NGO's
8. **Most important: Joint management of flood risks during actually occurring floods**

II. Integration of European and National

Projects Working Principles of ICPE WG FP

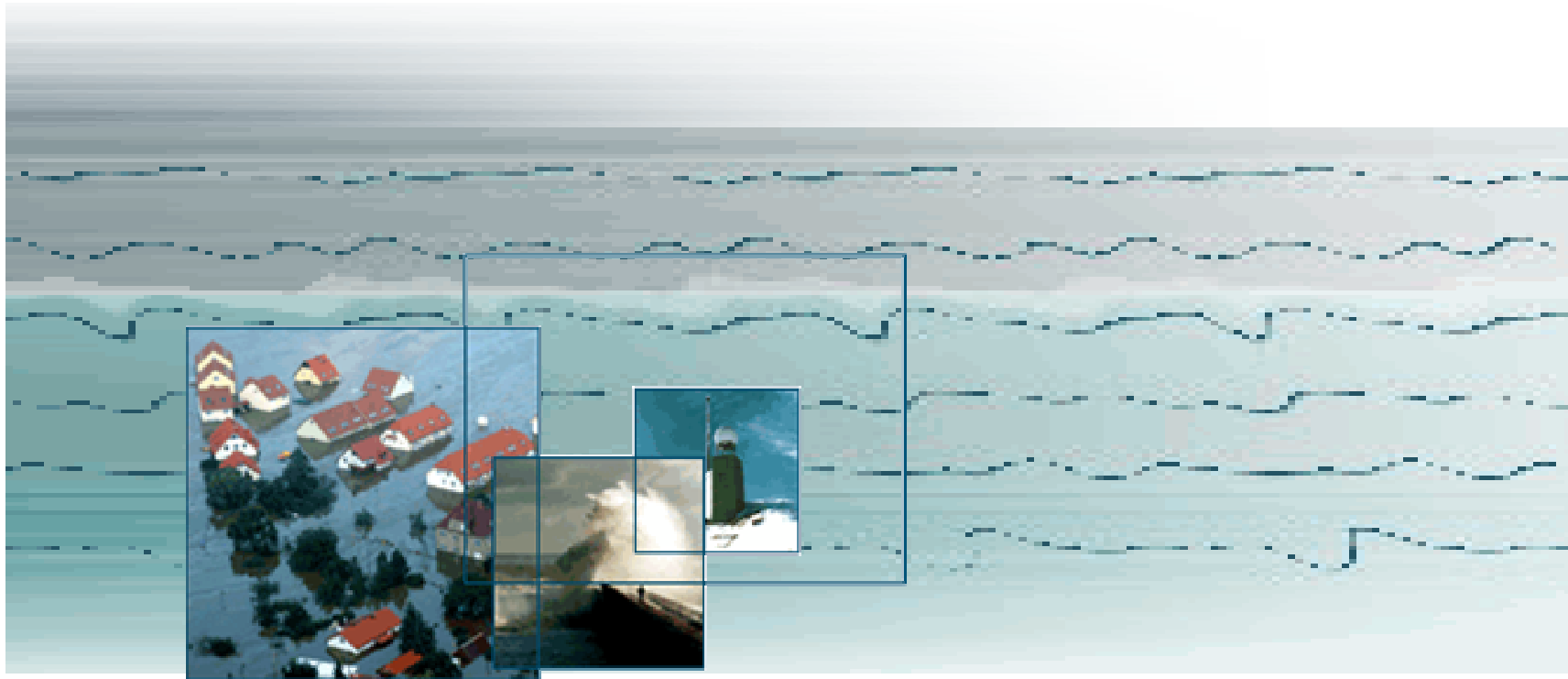
- International Commission with members from riparian states
- Members are responsible for their internal organisation
- Line organisation
- New focus on the public
- NGO's as permanent guests



Research Projects

1. GLOWA – Global Change and Water Issues
2. Floodsite – European Project
3. Lisflood – EU JRC Project
4. Rimax – German Project on extreme flood risks
5. ELLA – Interreg III B (inter)regional Project
(DE, CR, PI, HU, AU)

Integrated Flood Risk Analysis and Management Methodologies



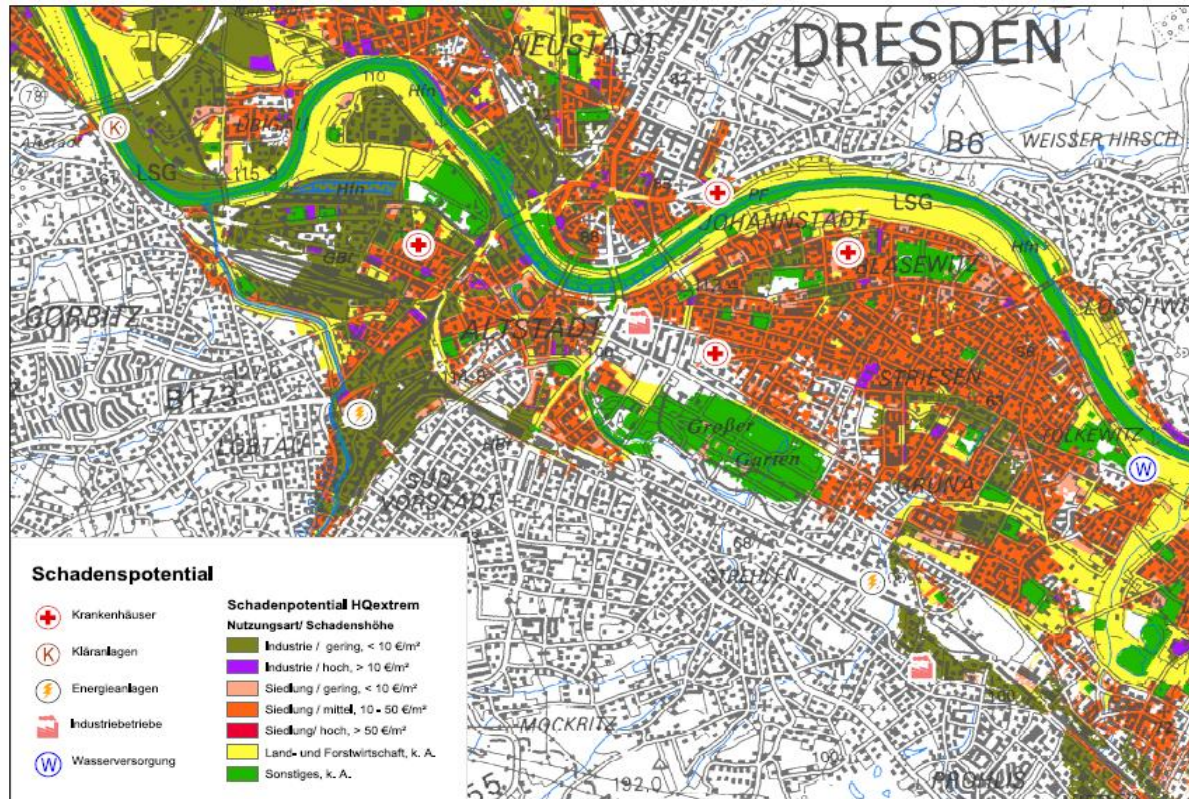


LISFLOOD

The physically based LISFLOOD model has been specifically developed to simulate floods in large European drainage basins.

Full basin-scale simulations can be carried out in such a way that influences of land use, spatial variations of soil properties and spatial precipitation differences, e.g. by increased flood frequency through climatic change, are taken into account.





Hazard Map for Dresden including areas of high risk



III. ICPE Action Plan Flood Protection

- First report for the period between 2003 and 31.12. 2005
- **Results with respect to main actions:**
- Main legal, organisational and technical instruments are available
- Main focus on further enlargement of flood retention areas
- Trans- national forecast system further improved
- Joint analysis and development of priority flood protection measures
- Integration of trans-national flood protection oriented spatial planning



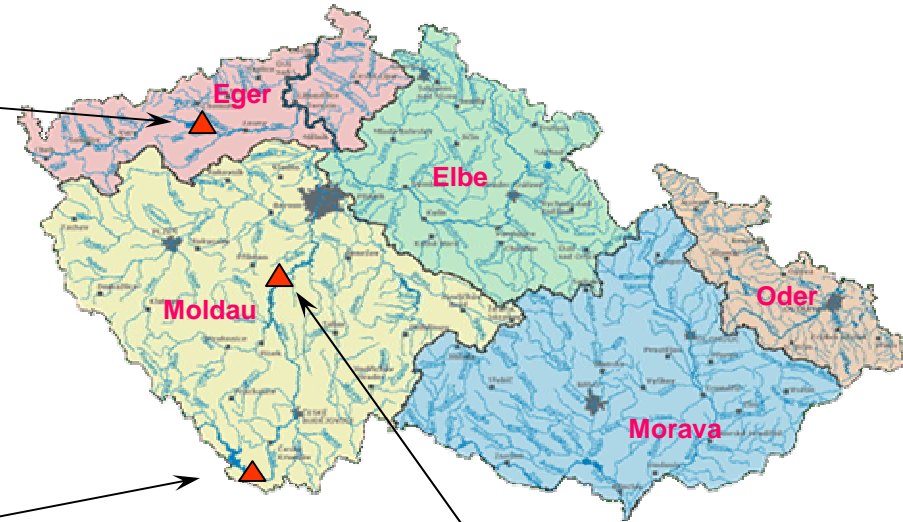
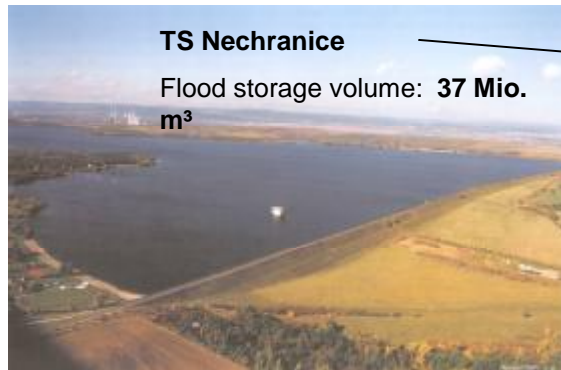
IV. Flood Spring 2006

- HQ 20 for the Elbe River with strong impact from Moldau/Vltava
- **Key actions and conclusions**
- Predicted flood with origin in Bohemian Mountains
- Working early warning system between the riparian states
- Escalation of disaster management units along the Elbe
- Precise operation of dam cascade along the Moldau/ Vltava
- Flood Risk Management in order to minimise threat and damage
- Extensive use of CR internet platform for flood risk management in Germany with immediate access to relevant information
- Strong will for co-operation according to the spirit of ICPE

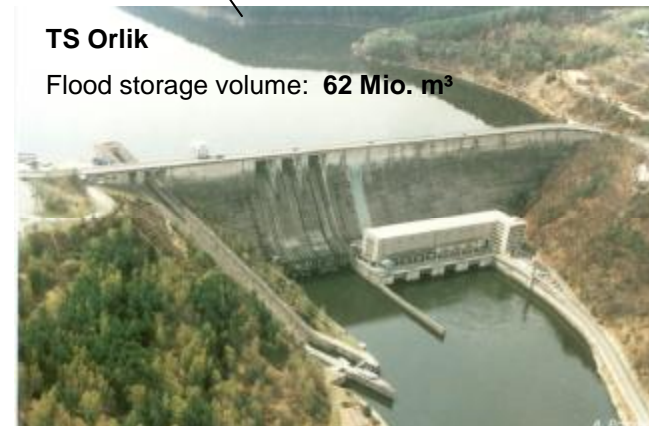


Dams in Czech Republic with long distance flood retention function

Catchment Eger:

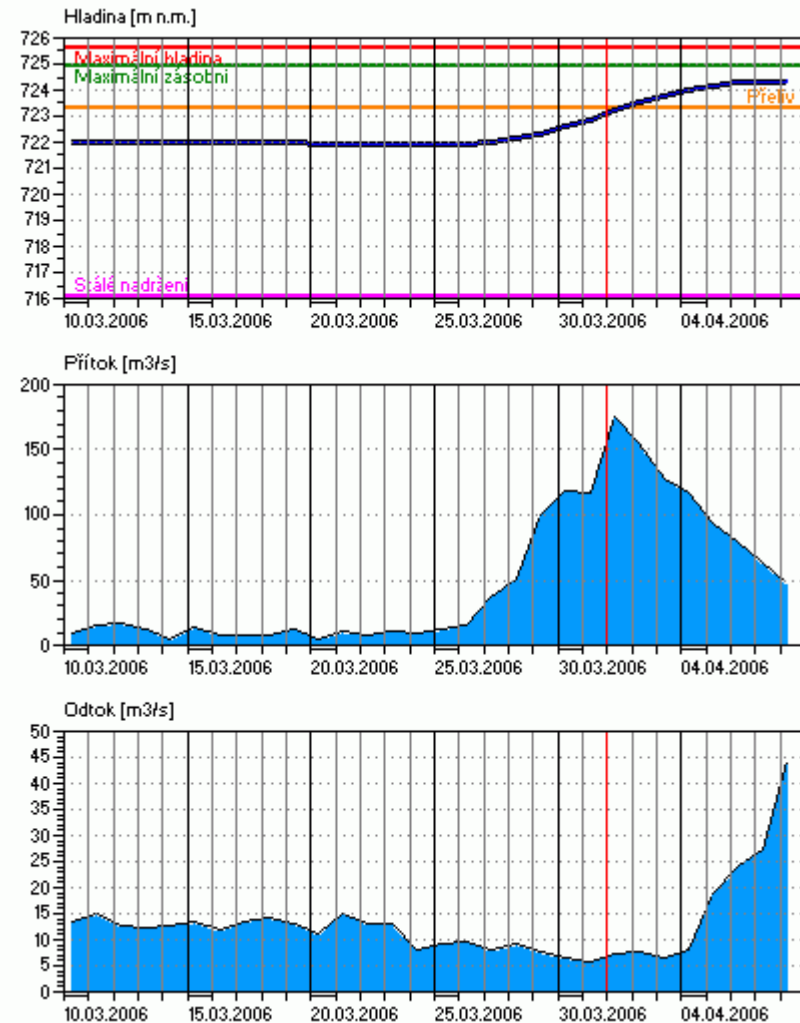


Catchment Moldau:



Dams in Czech Republic Operation during Flood Spring 2006

TS Lipno 1



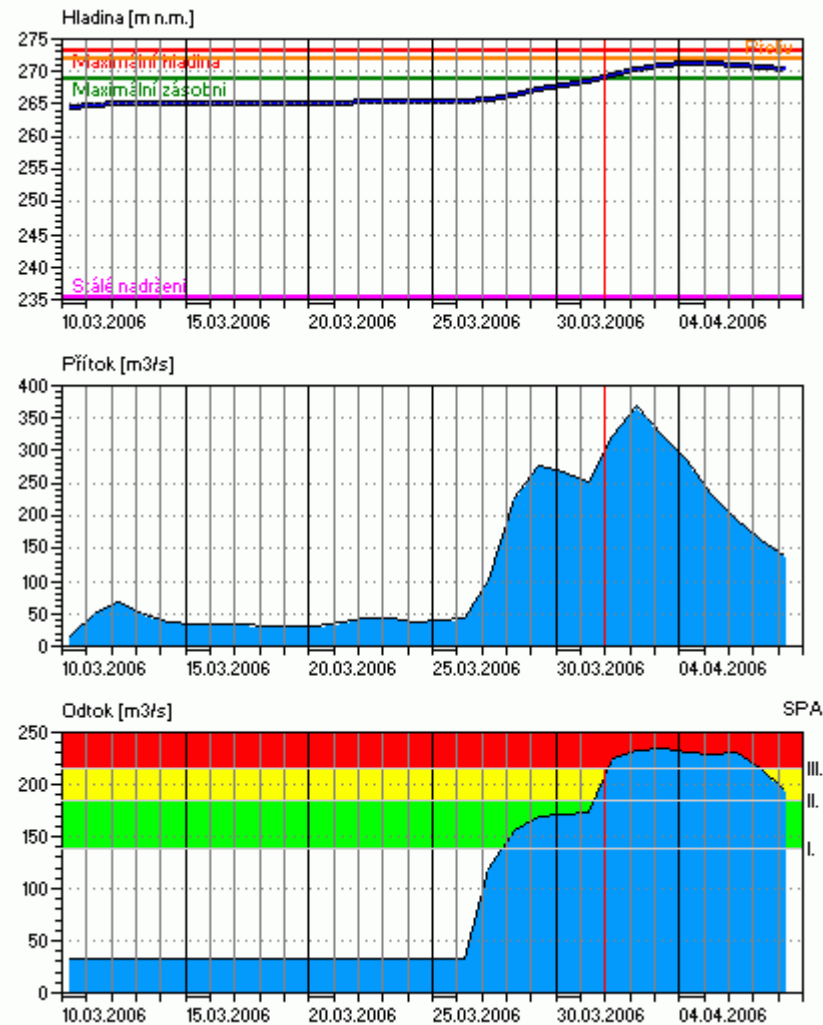
max inflow 1.4.: ca. 175 m³/s

max outflow: ca. 45 m³/s



Dams in Czech Republic Operation during Flood Spring 2006

TS Nechranice



max inflow 2.4.:

ca. 370 m³/s

max outflow:

ca. 230 m³/s

