

Prezentace k bodu 4:

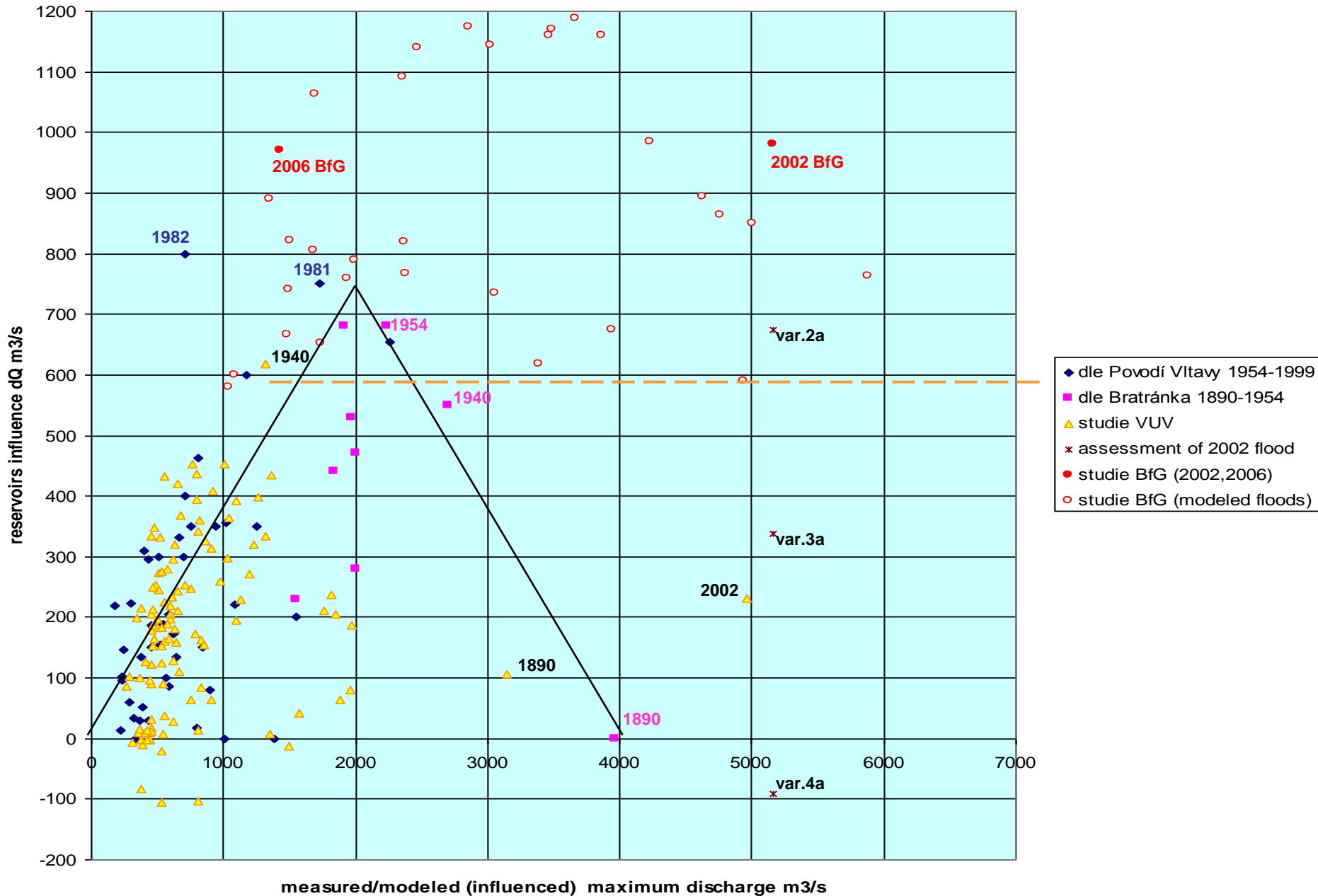
Analýza výsledků již dříve provedených studií k vlivu nádrží Vltavské kaskády  
a nádrže Nechanice na průběh povodní na Vltavě a na Labi

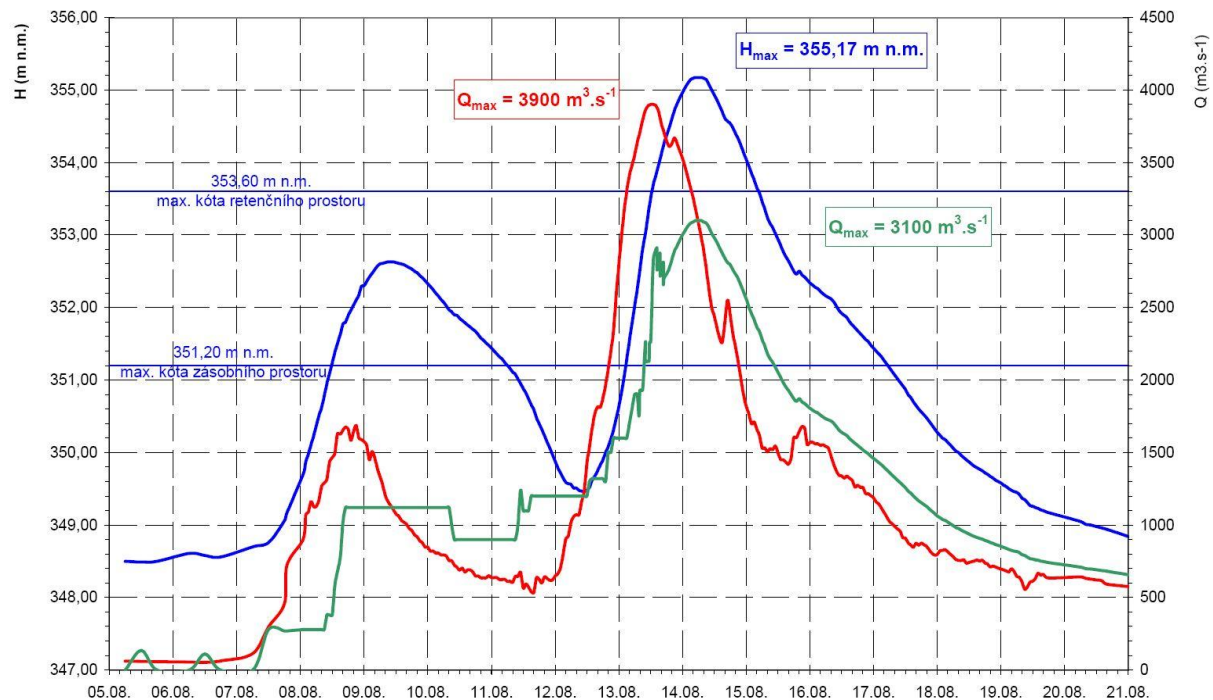
Präsentation zum TOP 4:

Analyse der Ergebnisse von bereits früher durchgeführten Studien zum Einfluss  
der Talsperren der Moldaukaskade sowie der Talsperre Nechanice  
auf den Verlauf von Hochwassern an Moldau und Elbe

Kubát (ČHMÚ, Praha)

# Influence of the Vltava Cascade on floods in Prague

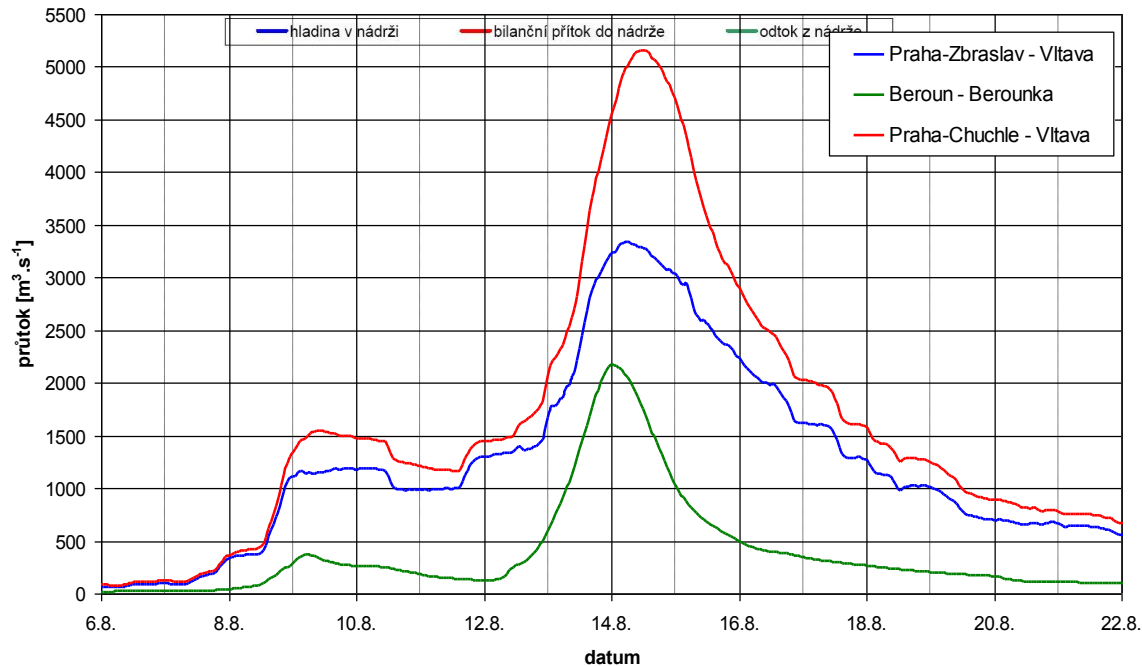


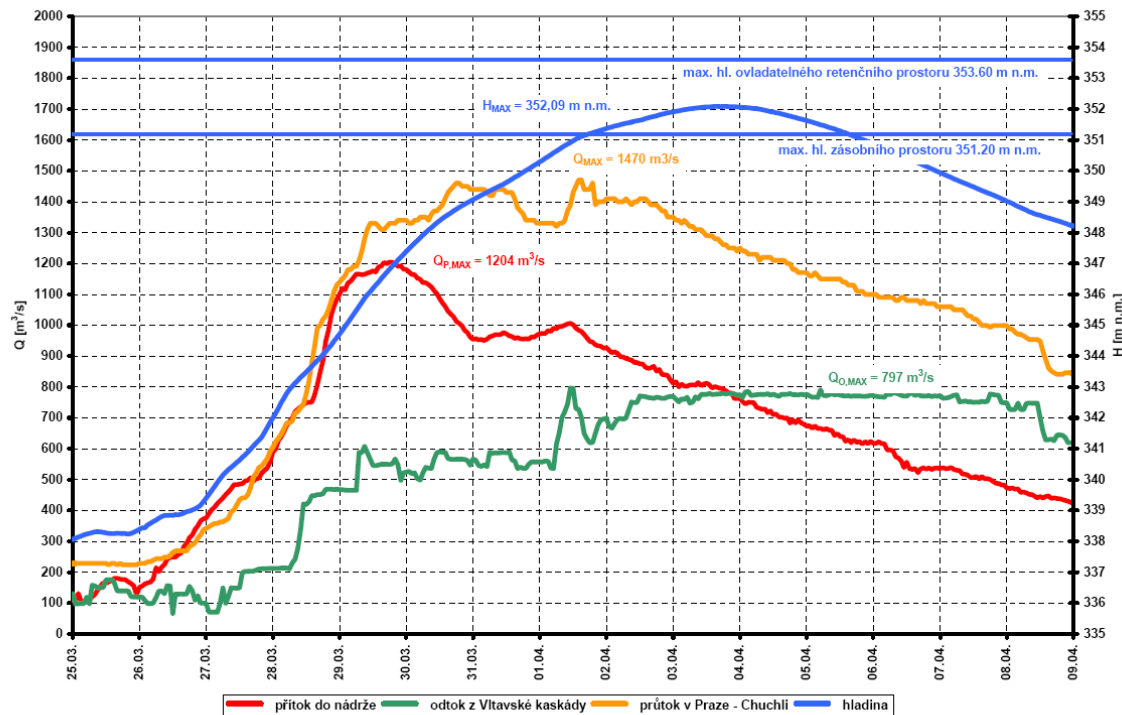


## 2002 FLOOD

The flood wave in Orlík reservoir was decreased by 800 m³/s and postponed by 18 hours.

The flood waves from the Vltava and the Berounka met at the same time. Without reservoirs, the wave from the Vltava would be sooner in Prague and top discharges maybe passed each other.





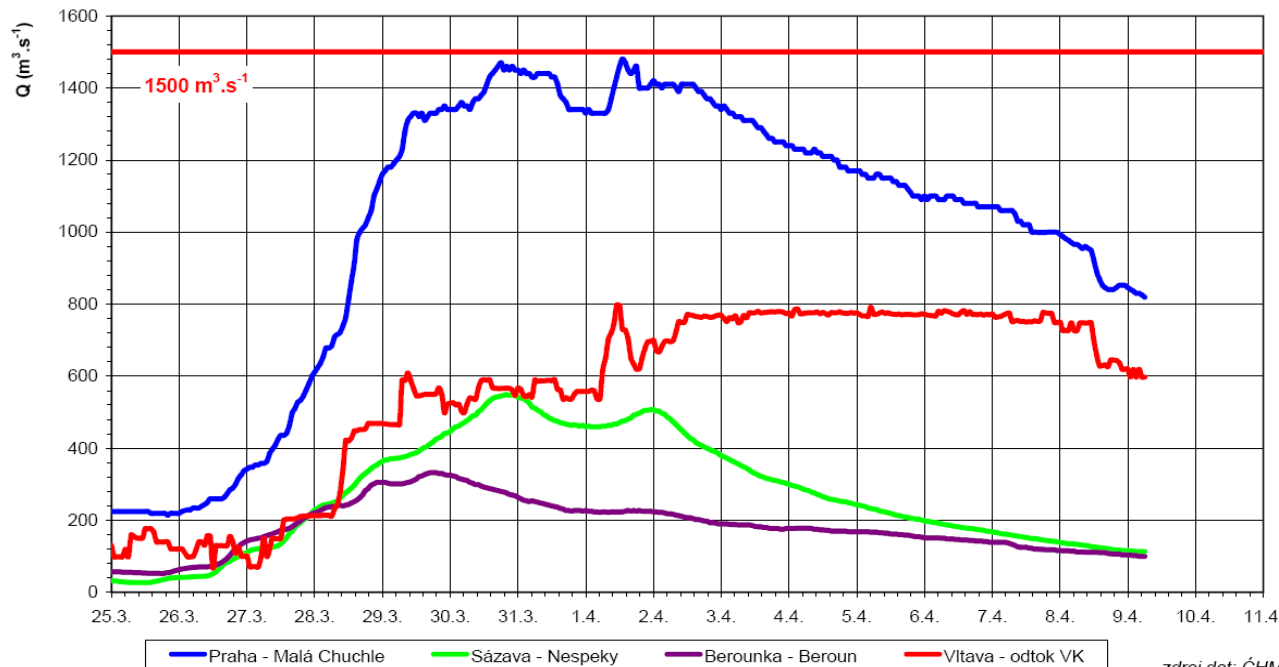
## 2006 FLOOD

The first peak on the Vltava in Prague is from the Berounka and Sázava rivers the second peak is from the Vltava. Without reservoirs the flood waves from the Vltava, Berounka and Sázava would probably meet in Prague.

### Reservoirs influence:

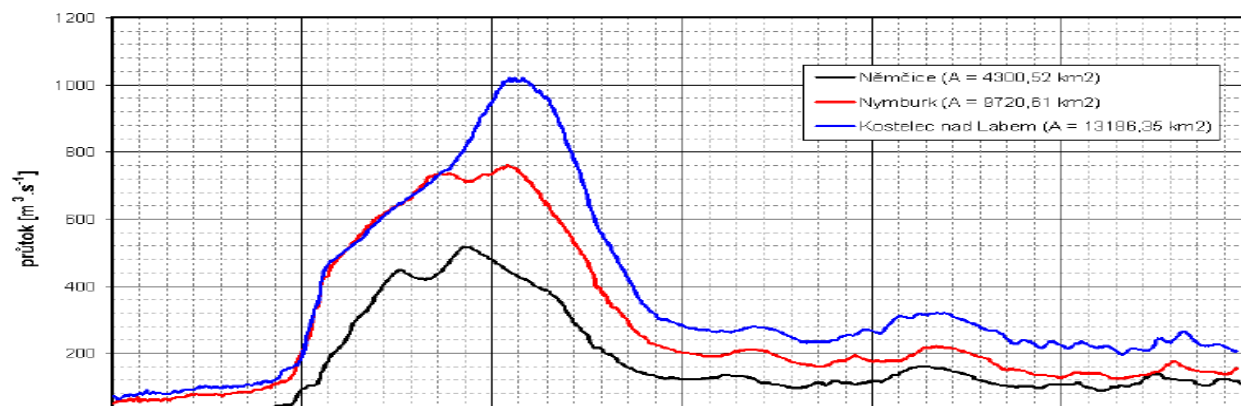
|             |                       |
|-------------|-----------------------|
| Orlík       | 600 m <sup>3</sup> /s |
| Lipno       | 180 but later         |
| Švihov      | 70                    |
| Hracholusky | 35                    |

Vltava in Prague ???



zdroj dat: ČHMÚ

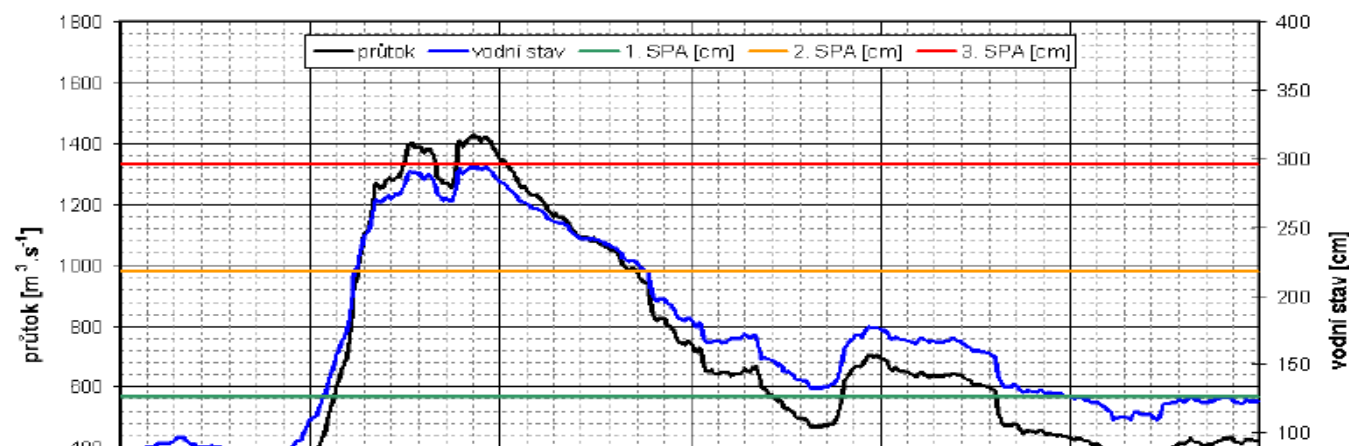
**Labe nad Vitavou**



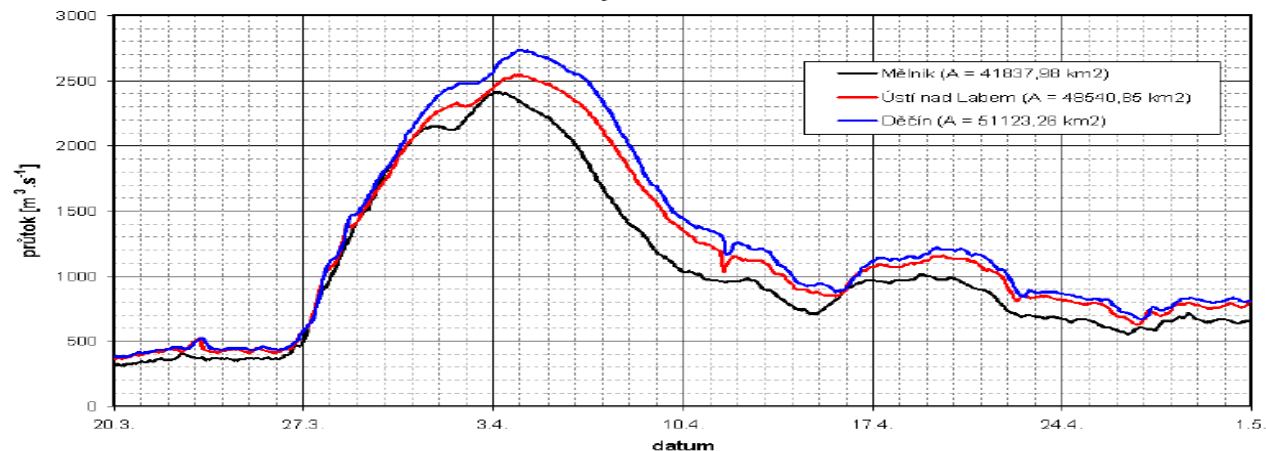
## 2006 FLLOD on the Elbe

The flood wave from the upper Elbe was delayed over against the Vltava. The first peak of the Vltava wave disappeared and the retention affect of the Vltava Cascade was not fully enforced.

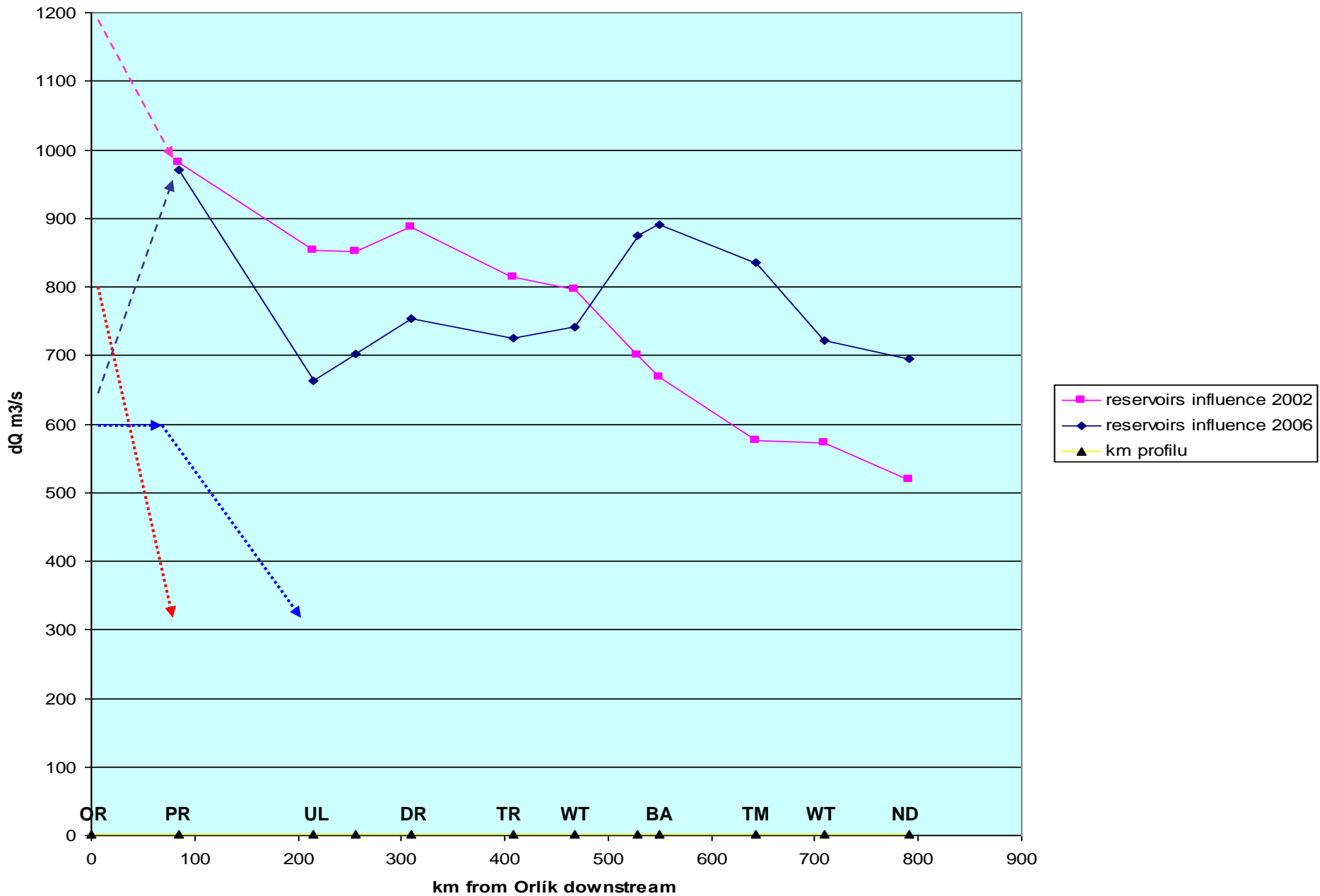
**Vltava – Praha**



**Labe pod Vitavou**



Czech reservoirs influence in the longitudinal river profile



# Influence of the Vitava Cascade on N-year discharges in Prague

