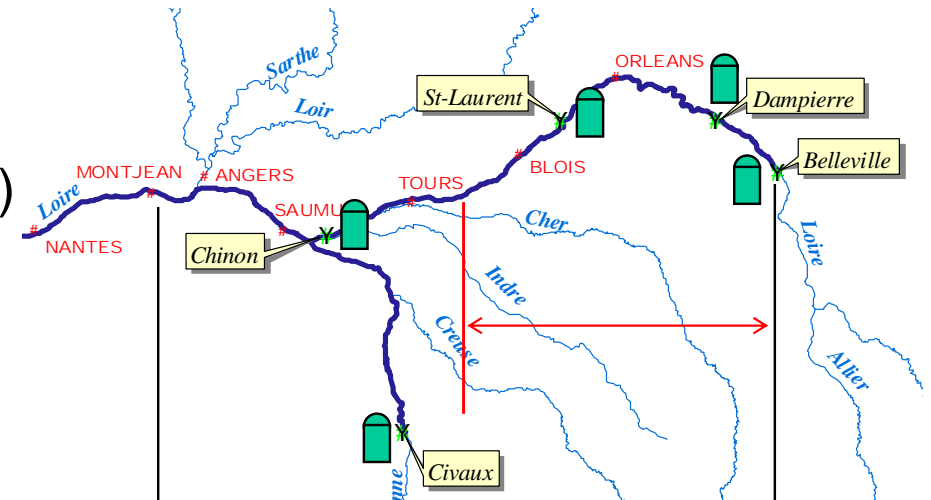


New scenario on river Loire ?

Domain considered

- River Loire, from Belleville to Amboise (domain length \cong 195 km)
- No tributaries (only corrections of discharges)



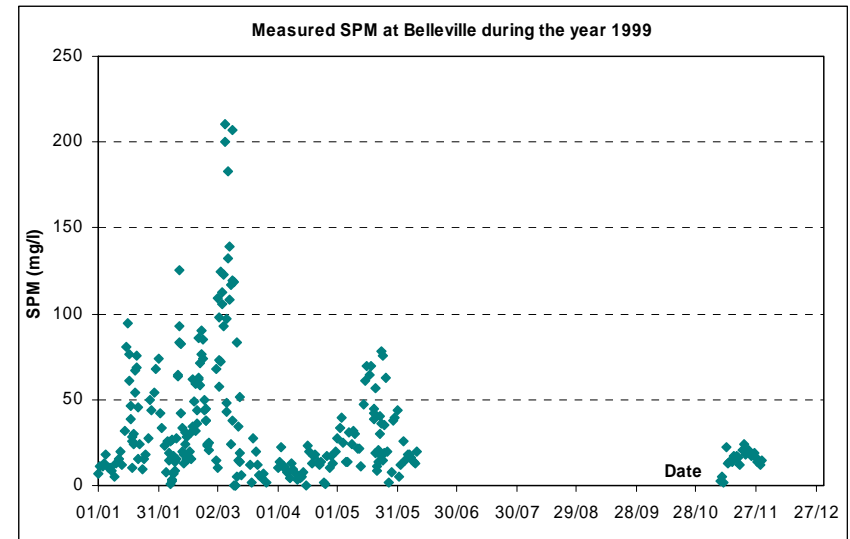
Scenario and objectives

- Migration of the ^{60}Co discharges of 3 Nuclear Power Plants, taking into account deposition, erosion, interactions with suspended matter and sediments, for real hydraulic and discharges conditions of the year 1999

Data provided for the exercise

- Data from the previous scenario
 - Geometry (profiles and weirs)
 - Hydraulic data (year 1999)

- Measured suspended particulate matter (SPM) concentrations at Belleville



- ^{60}Co releases of Belleville, Dampierre and StLaurent NPP (hourly fluxes)
- Granulometry of Blois dam sediments
- ? Bi-weekly measurements of water quality data at Orléans (pH, temperature, SPM, chlorophyll) ?



Endpoints of the exercise

- Monthly ^{60}Co activities of SPM in 3 stations downstream of each NPP
 - ^{60}Co activity of sediment deposits in Blois reservoir the 14/10/1999
 - Evolution of SPM concentration and ^{60}Co activity in SPM downstream of Blois reservoir
 - Estimation of the deposits in Blois reservoir before the lowering of the dam
- ⇒ Comparisons to measurements and inter-comparisons of different models