

Presentation of Serbian sectors 18 to 23



Preparation of Documentation for River Training and Dredging Works on Selected Locations along the Danube River. A project funded by the European Union

17 August, 2012

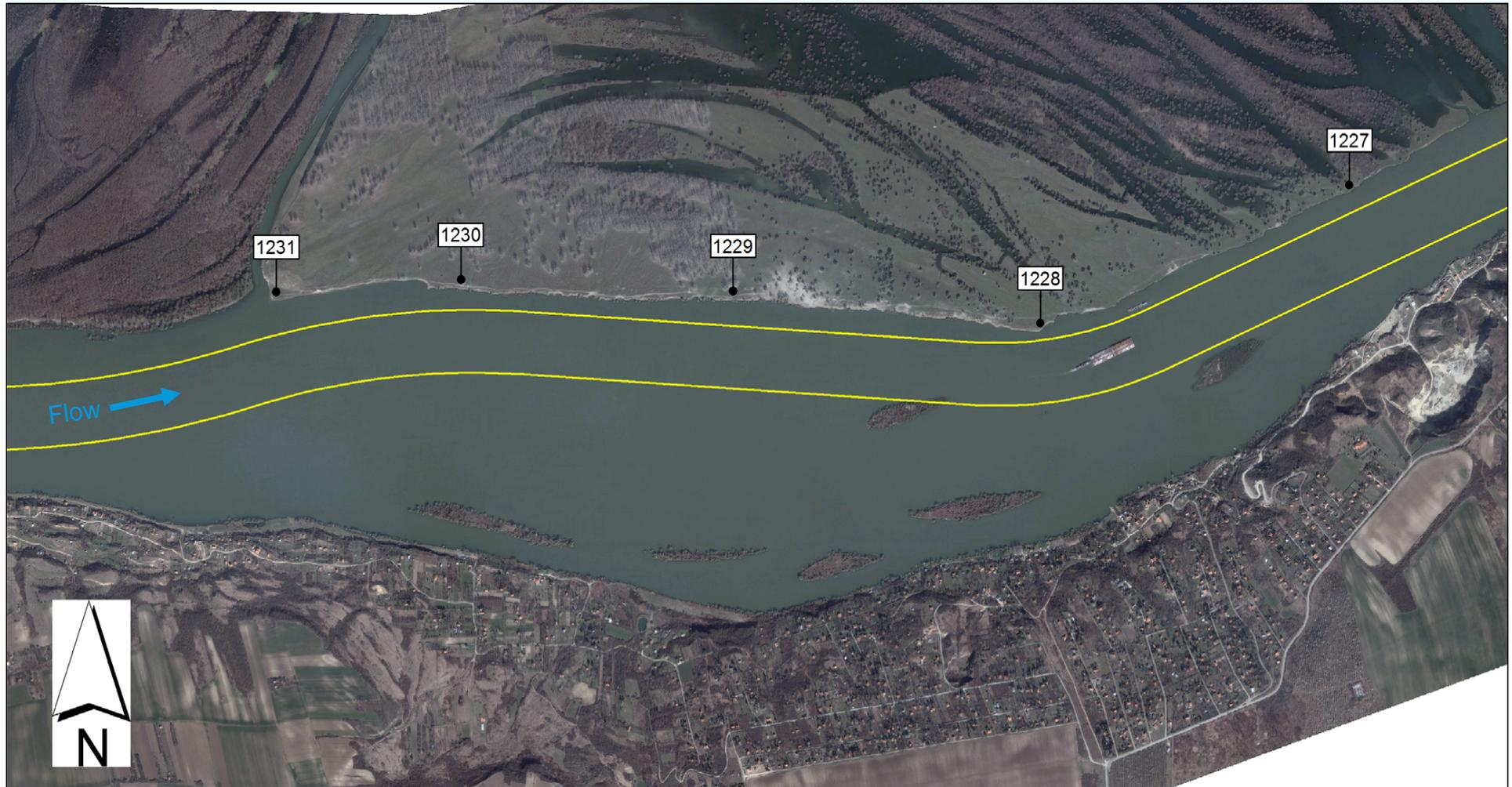
Content

- Serbian sectors:
 - Beska;
 - Cortanovci;
 - Arankina Ada;
 - Futog;
 - Susek.
- For each sector is presented:
 - Existing situation;
 - Proposed options;
 - Evaluation of the options.

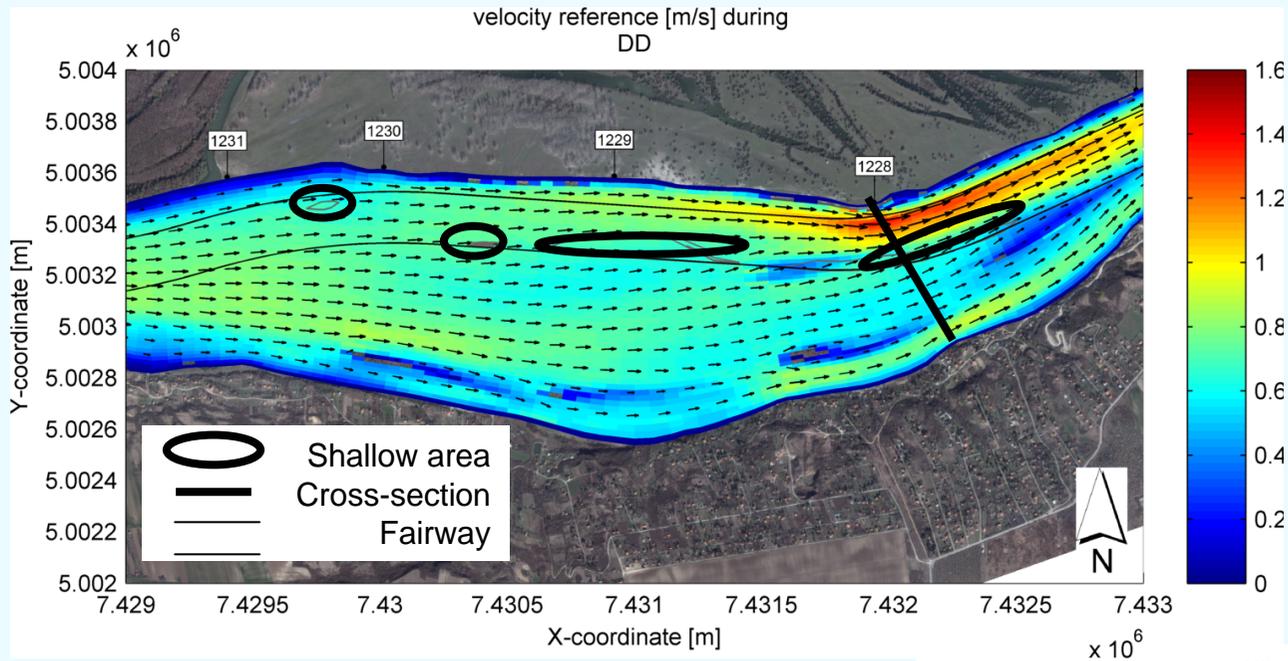
23. Sector – Beska (km 1,232.0 – 1,226.6)



23. Beska – Existing situation

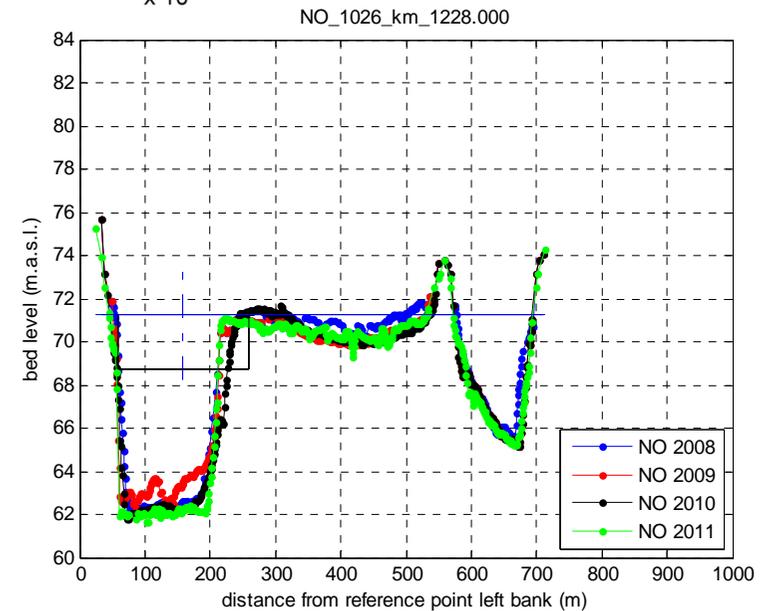


23. Beska – Existing situation



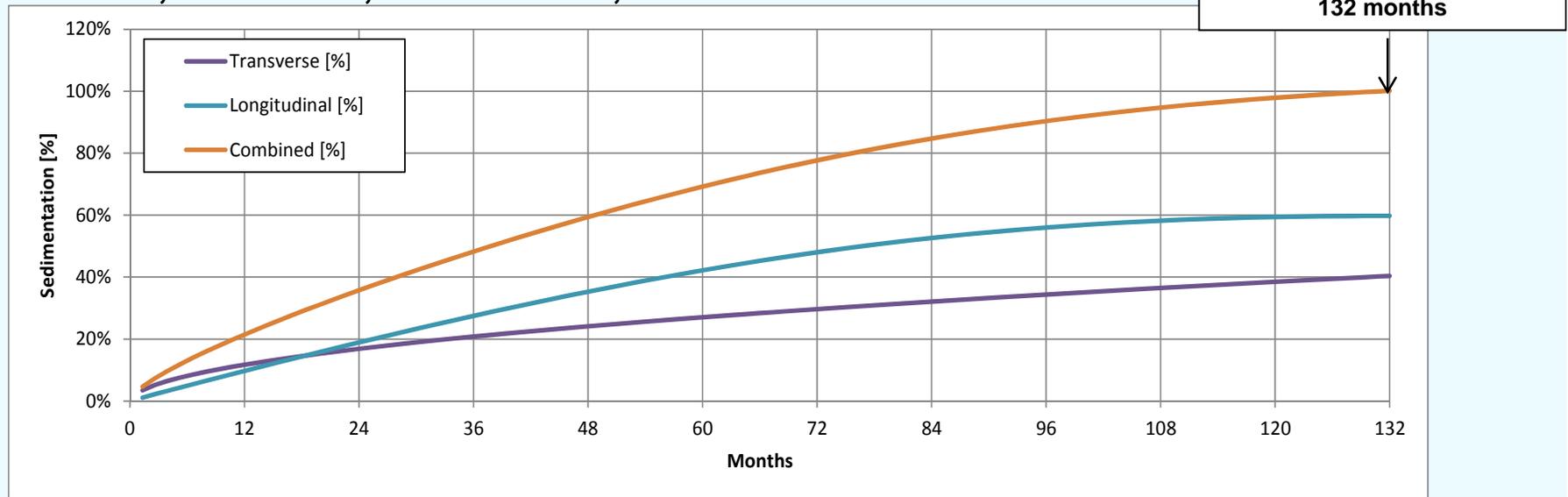
Navigation problems:

- fairway is protruded by sand bars on four locations in sector

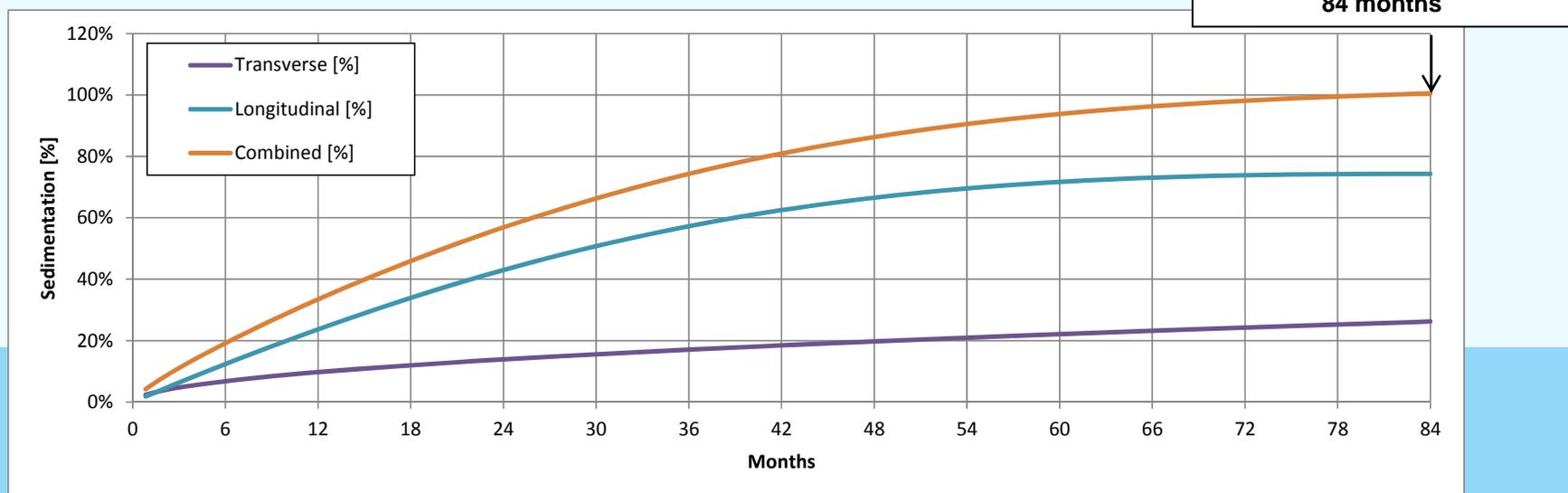


23. Beska – option 2: dredging

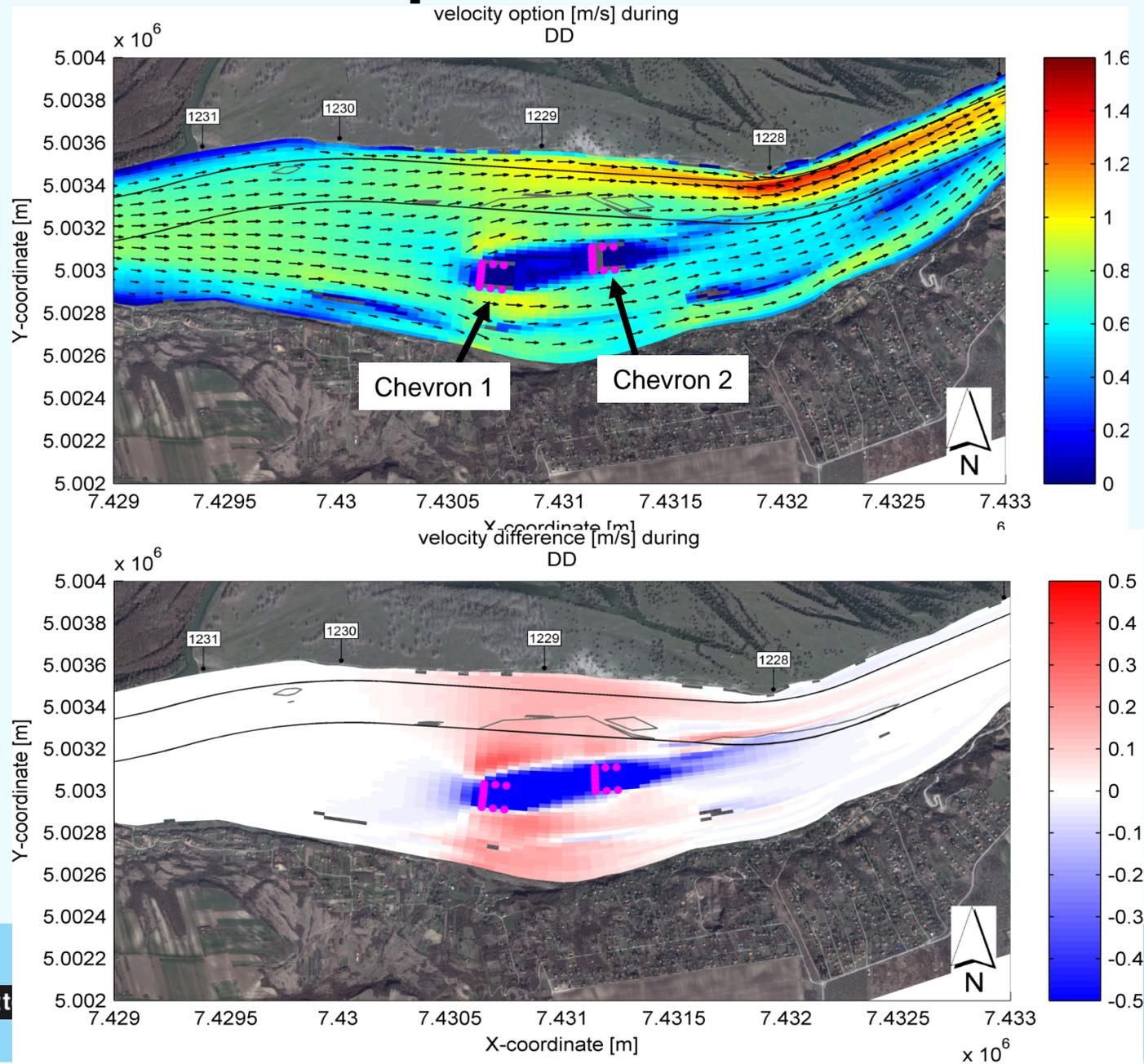
Km 1,228.2-1,227.6: 68,901 m³



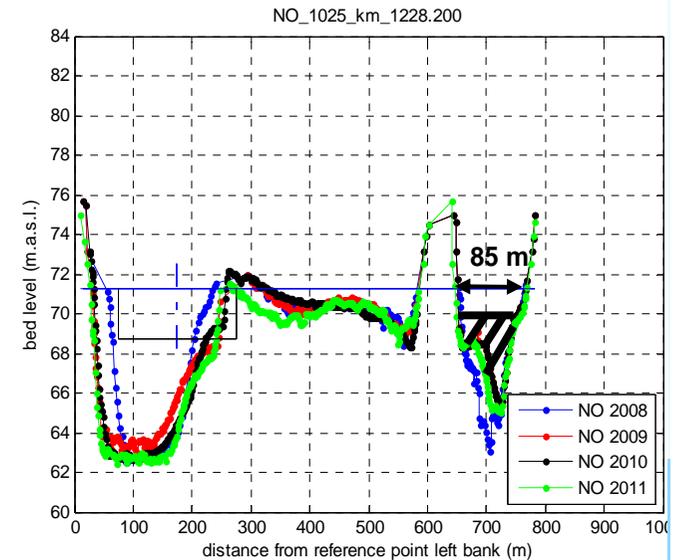
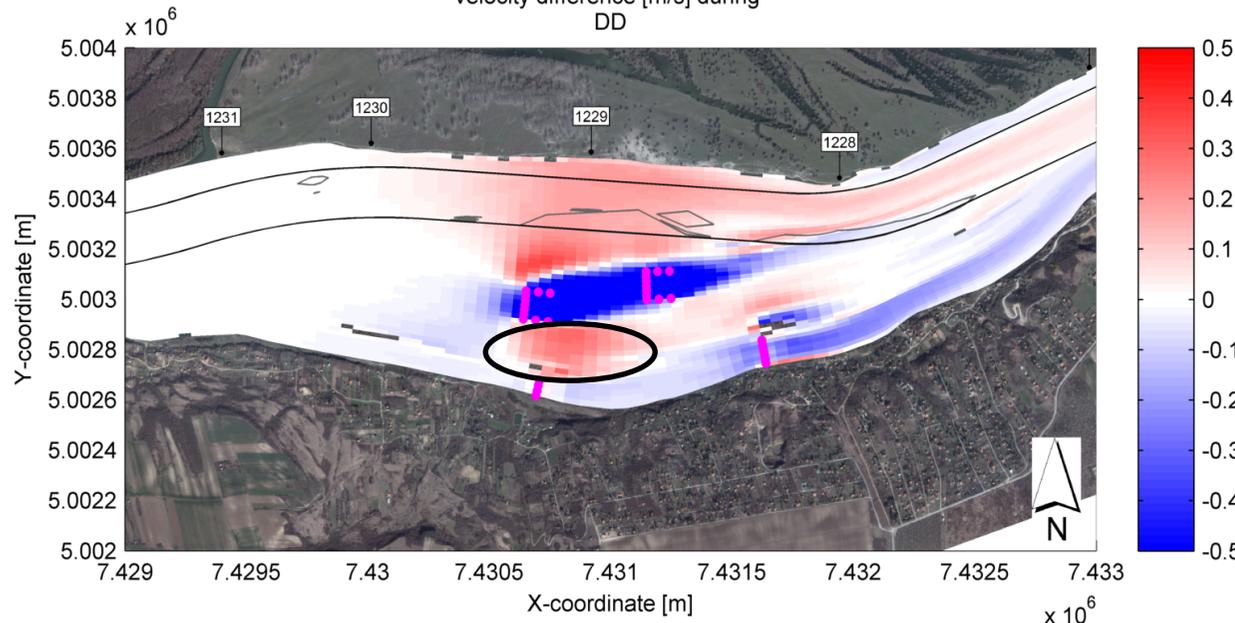
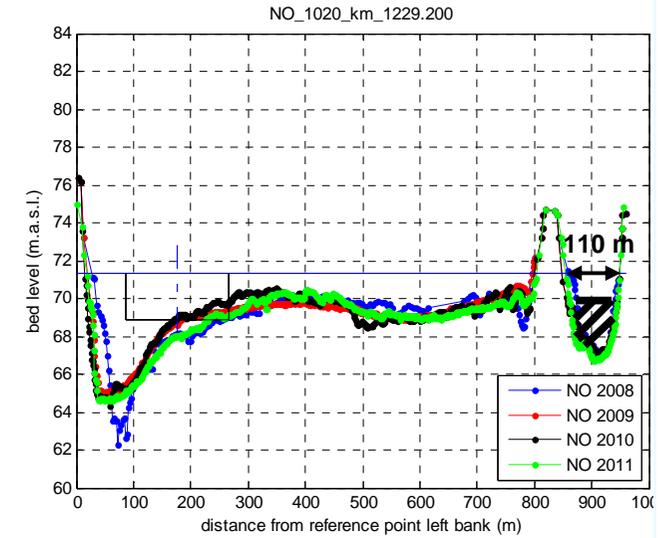
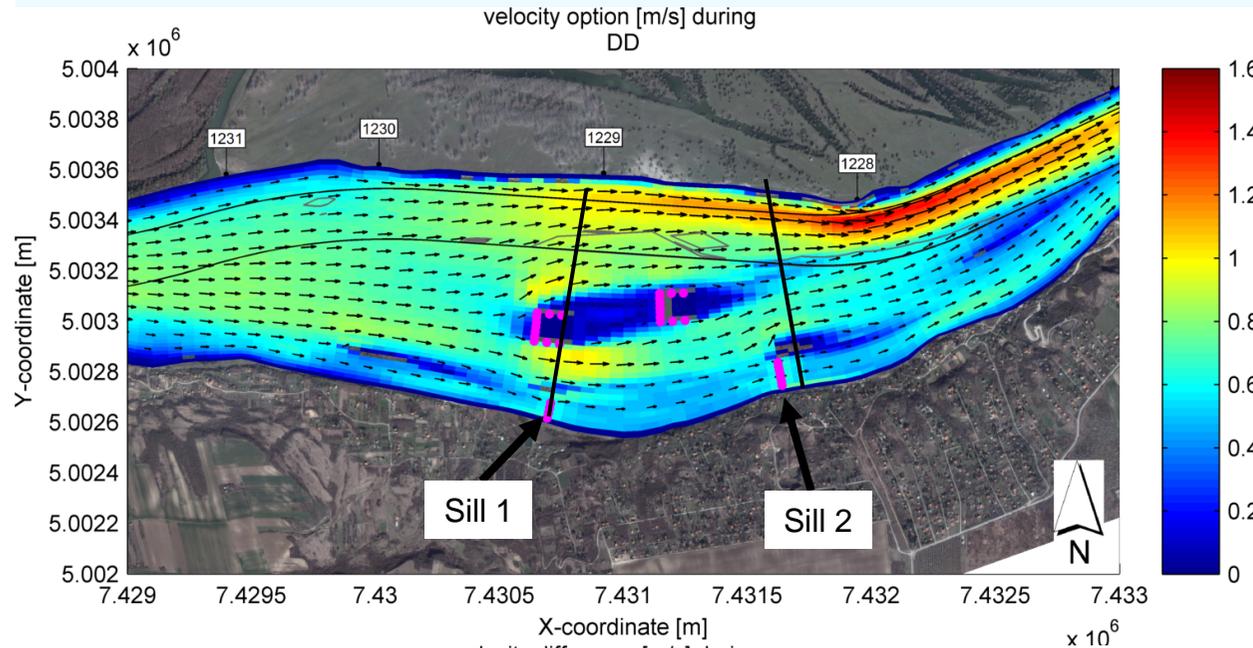
Km 1,229.2-1,228.6: 88,187 m³



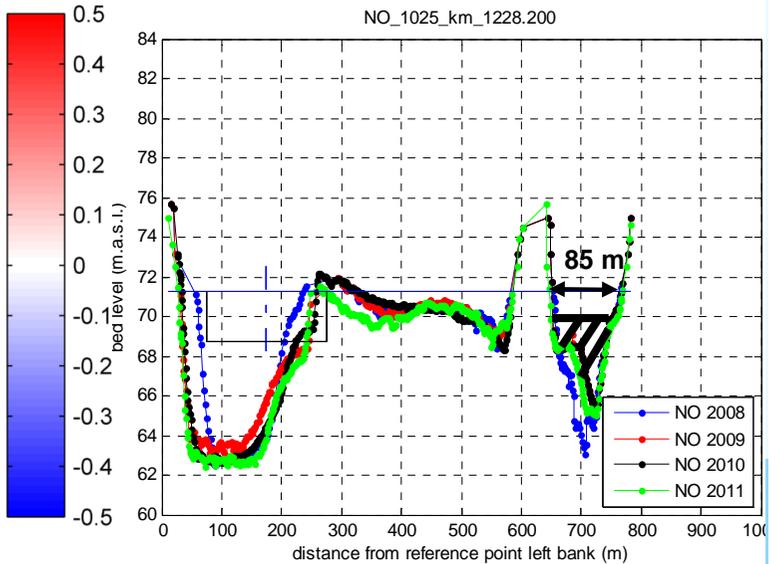
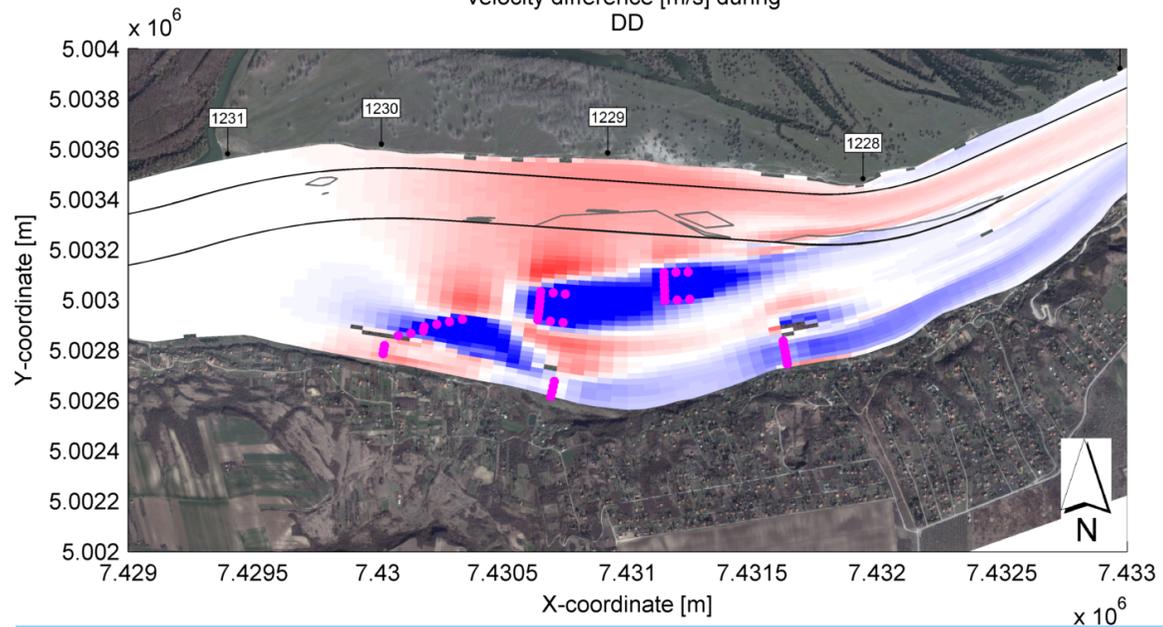
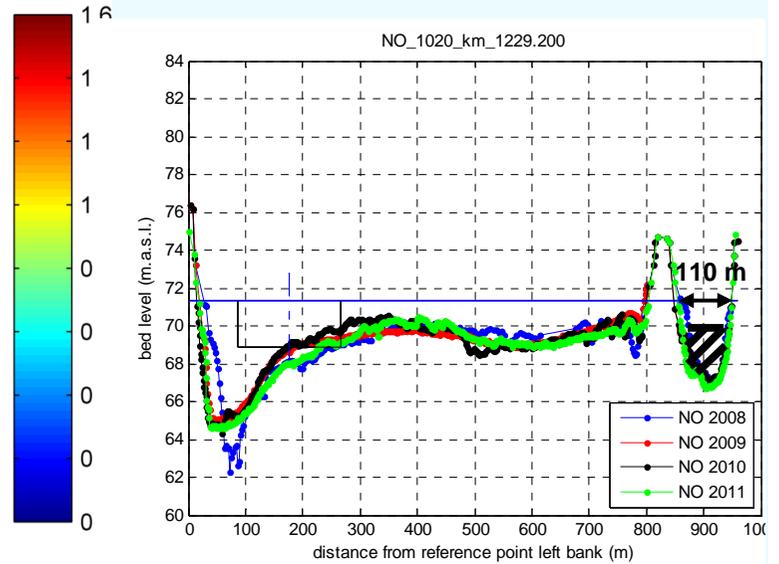
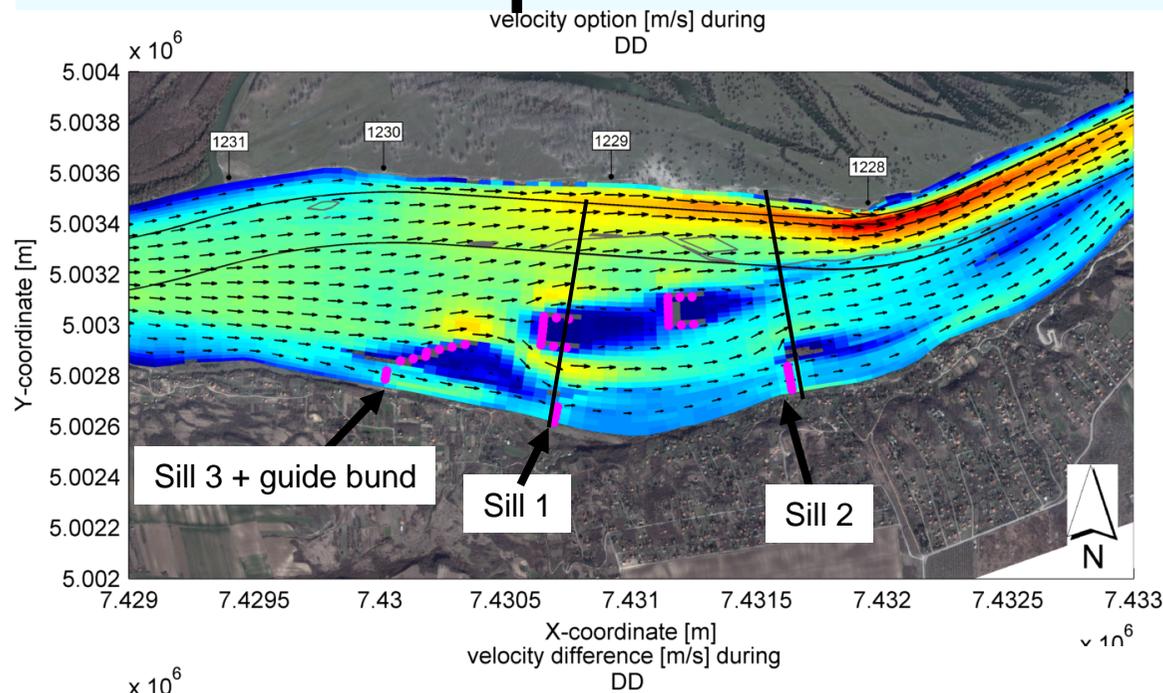
23. Beska – option 3: 2 chevrons



23. Beska – option 4: 2 chevrons, 2 sills



23. Beska – option 5: 2 chevrons, 3 sills, guide bund



23. Beska – options 2, 3, 4 and 5

- Navigation:
 - increased flow in the fairway channel;
 - additional dredging is required.
- Environment:
 - Flow through shallow areas and side channel is still possible.
- Cost:
 - Chevrons should be about 100 m wide.
- Optimization of:
 - Chevron dimensions;
 - Sill crest level and openings;
 - Exact location of structures.

23. Beska - MCA

Options	Effectiveness	Environment	Cost
Option 2 – dredging	Low	Limited	High
Option 3 – two chevrons	Limited	Minimal negative (+ some positive) impact	Limited
Option 4 – two chevrons + two sills	Limited	Minimal negative (+ some positive) impact	Limited
Option 5 – two chevrons, three sills, guide bund	Effective	Minimal negative (+ some positive) impact	High