

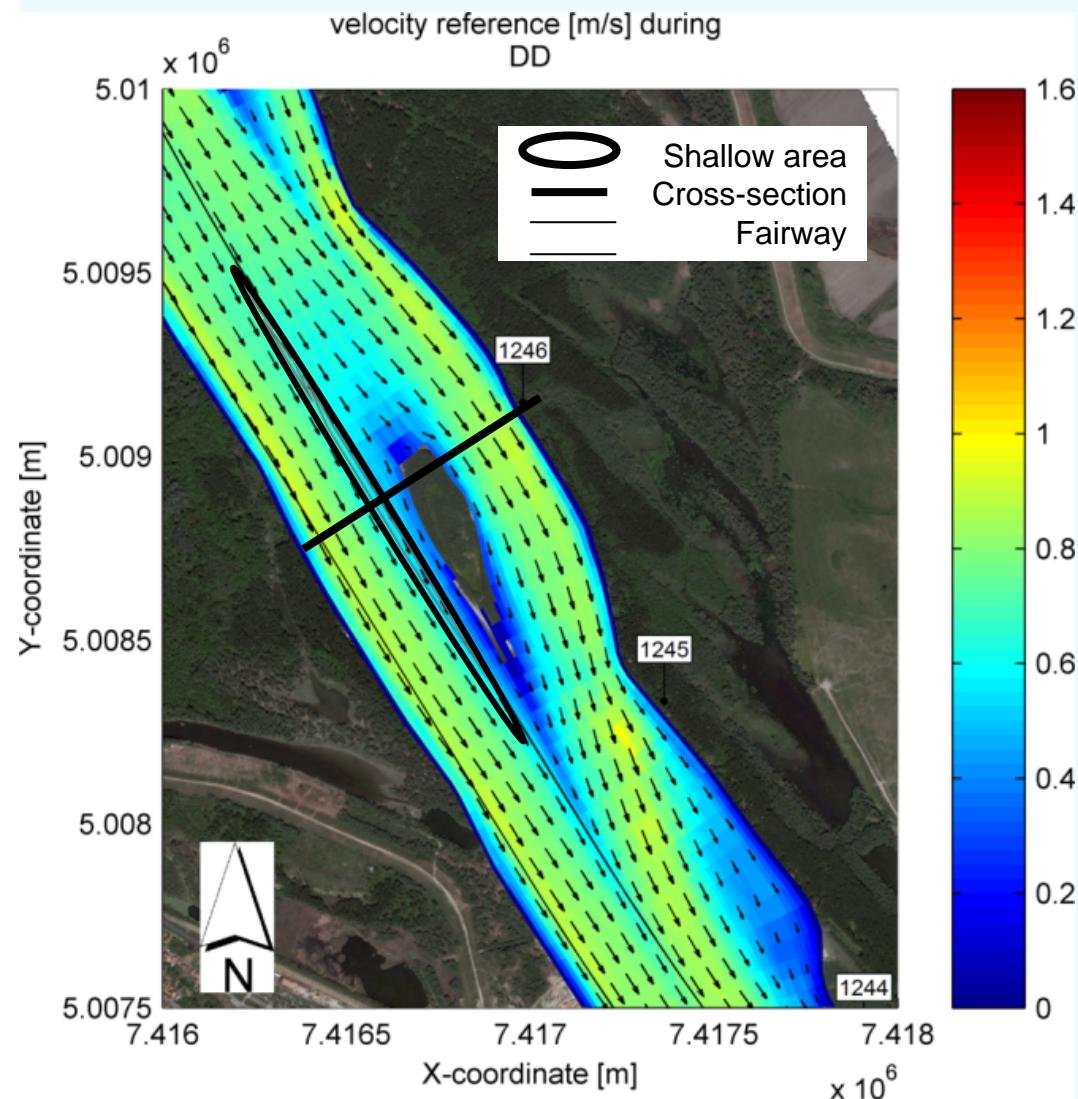
# 21. Sector – Arankina Ada (km 1,247-1,244.8)



# 21. Arankina Ada – Existing situation

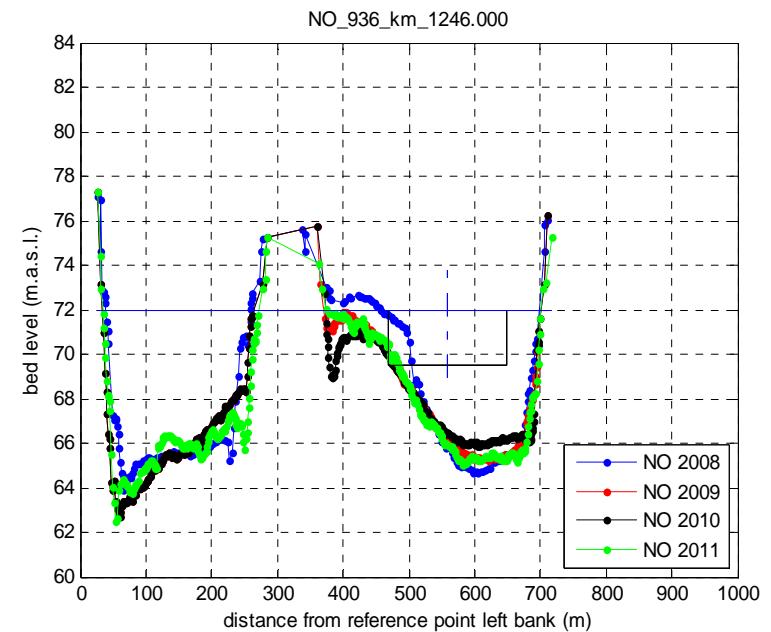


# 21. Arankina Ada - Existing situation

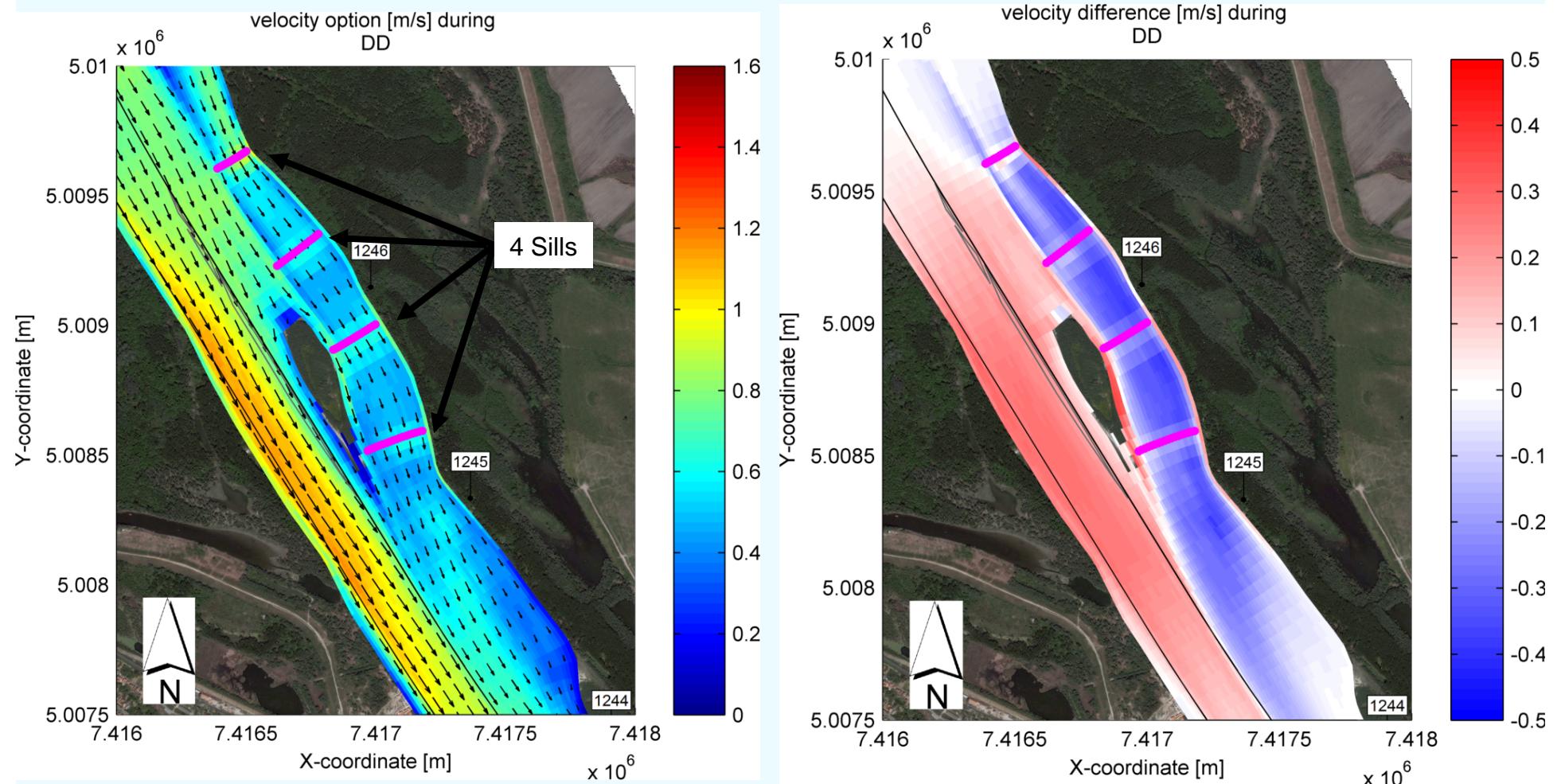


Navigation problems:

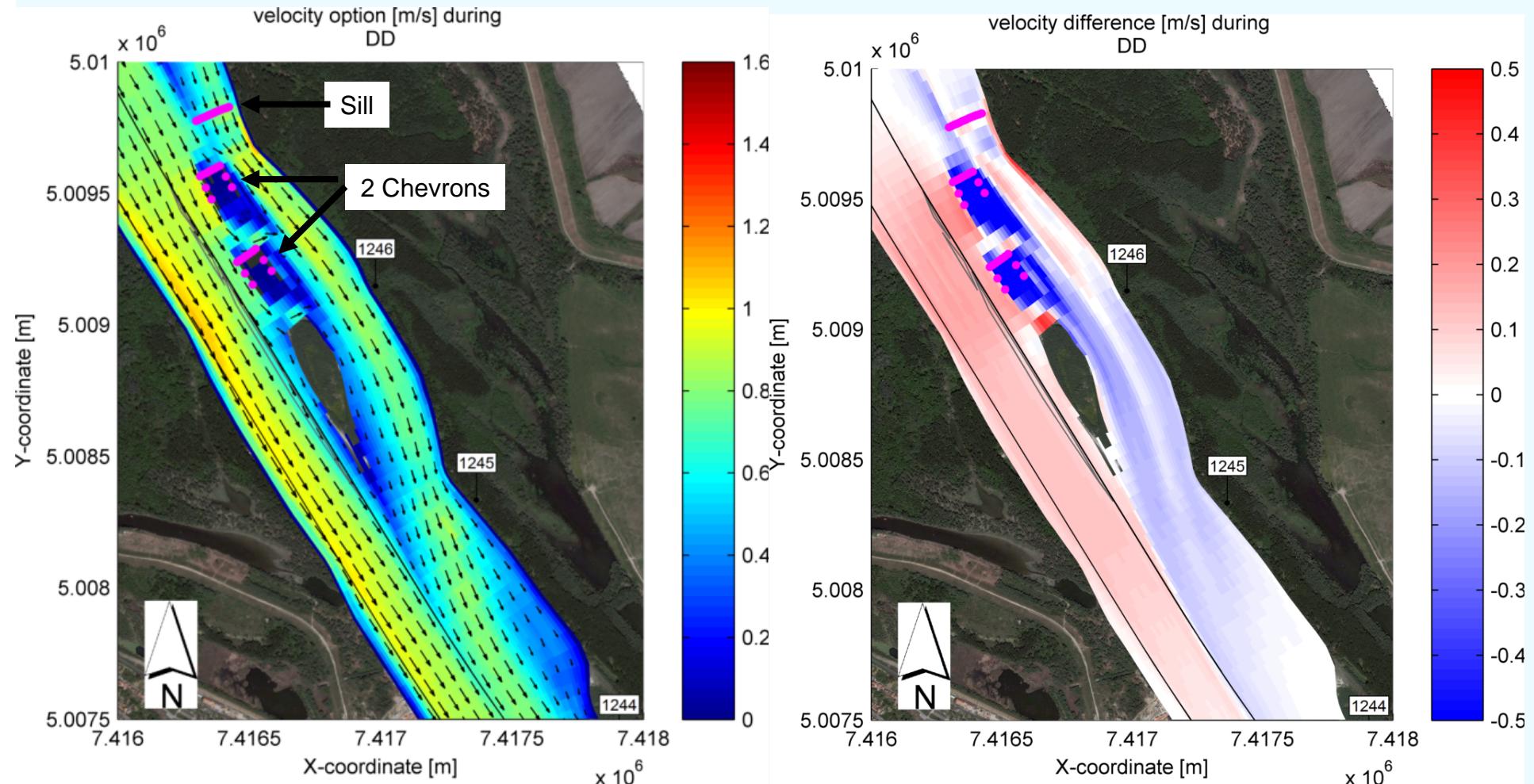
- Island protrudes into fairway along left side of fairway;



# 21. Arankina Ada: option 1: Sills



# 21. Arankina Ada – option 3: chevrons+sill



# 21. Arankina Ada – options 1 and 3

- Navigation:
  - increased flow in the fairway channel;
  - Option 3: additional dredging is required
- Environment:
  - Minimize erosion along right side island;
- Cost:
  - sills are about 150 m-200 m wide and 3 – 4 m high;
- Optimization of:
  - Sill crest level;
  - Exact location of structures.

# 21. Arankina Ada - MCA

Options	Effectiveness	Environment	Cost
Option 1 – sills	Effective	Minimal negative (+ some positive) impact	Limited
Option 3 – two chevrons + sill	Limited	Minimal negative (+ some positive) impact	Limited