

Final Report

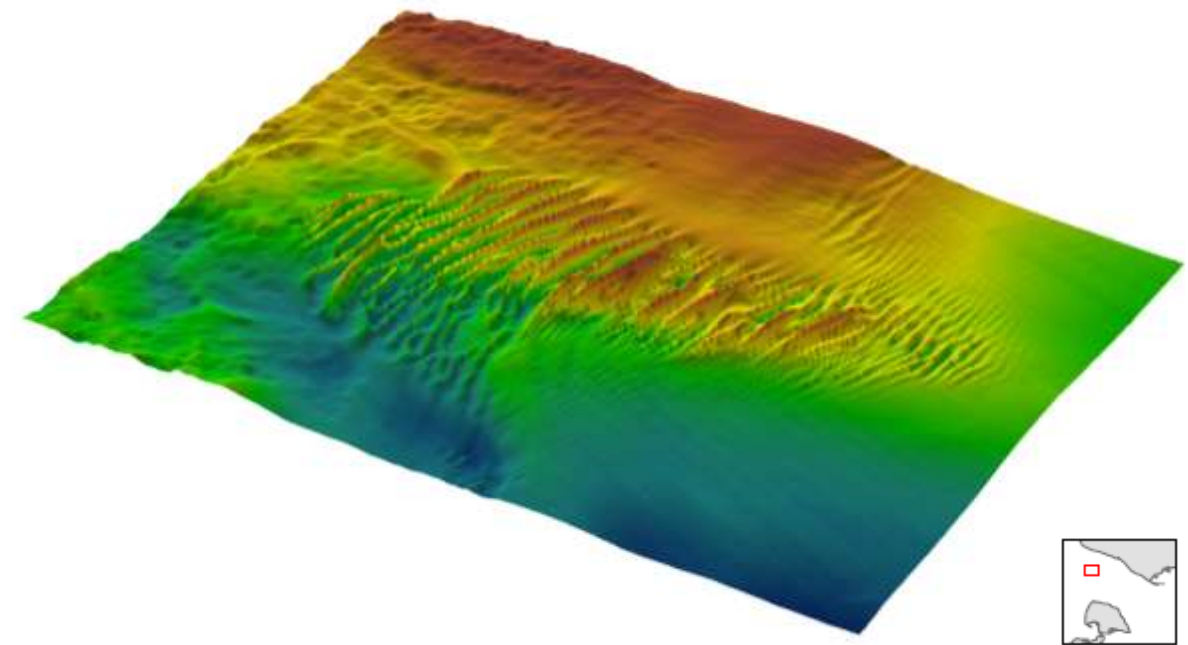
**FEHMARNBELT FIXED LINK
HYDROGRAPHIC SERVICES (FEHY)**

Marine Soil - Baseline

**Sea Bed Morphology of the
Fehmarnbelt Area**

E1TR0056 - Volume I

APPENDIX A





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Maps:

Unless otherwise stated:

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HELCOM (Helsinki Commission – Baltic Marine Environment Protection Commission)

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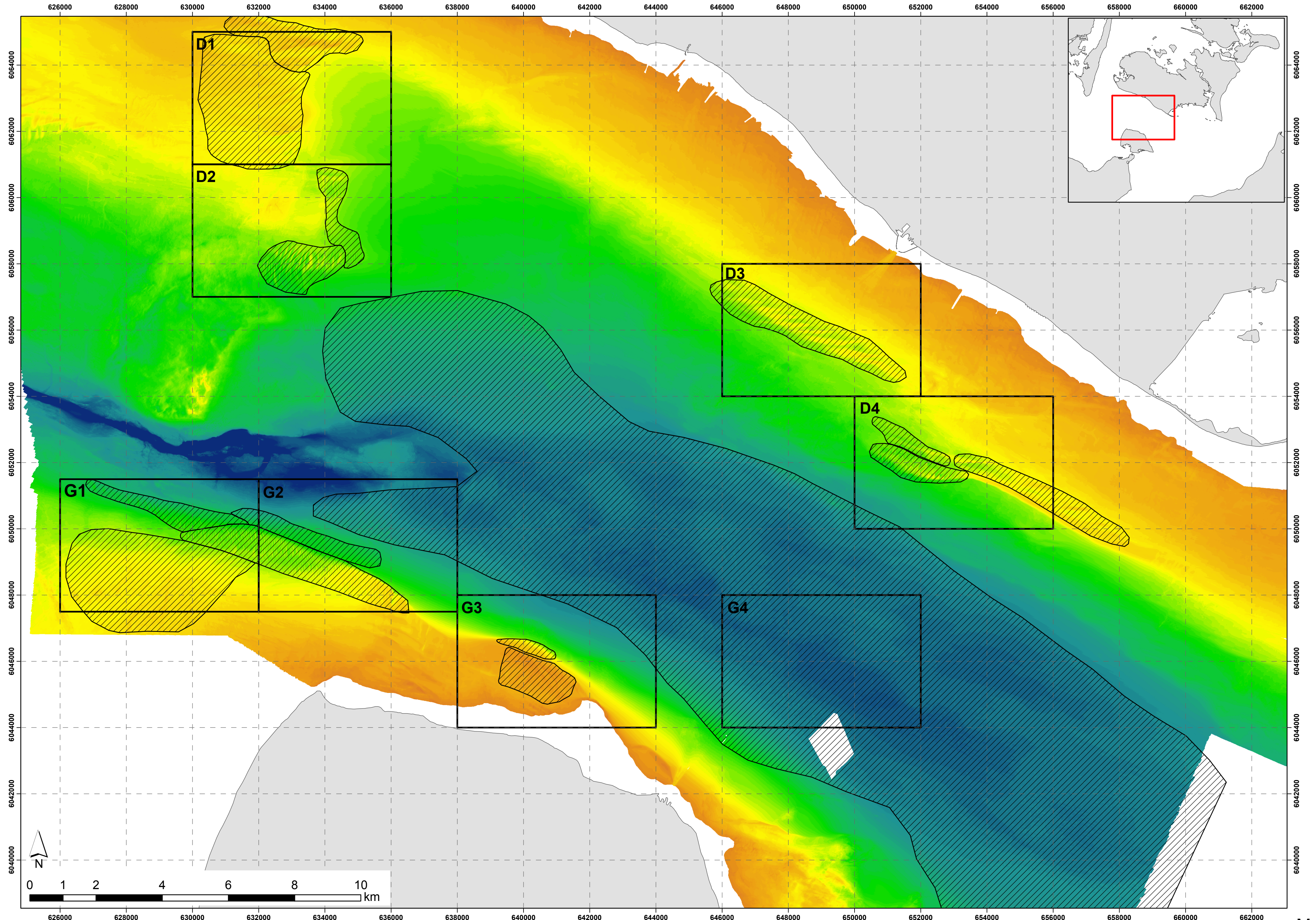
Contents

Map I:	<i>Areas of bed forms. Detailed plots for areas D1-4 and G1-4 are supplied in maps XI-XIX.</i>
Map II:	<i>Bathymetry – Depths 0-32 m.</i>
Map III:	<i>Bathymetry – Depths 0-8 m.</i>
Map IV:	<i>Bathymetry – Depths 6-14 m.</i>
Map V:	<i>Bathymetry – Depths 12-20 m.</i>
Map VI:	<i>Bathymetry – Depths 18-26 m.</i>
Map VII:	<i>Bathymetry – Depths 24-32 m.</i>
Map VIII:	<i>Maximum bed slope.</i>
Map IX:	<i>Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200m.</i>
Map X:	<i>Areas (hatched) where bed form properties influence the flow resistance. Detailed plots for areas D1-4 and G1-4 are supplied in maps XI-XIX.</i>
Map XI:	<i>Area D1: Detailed characteristics of the seabed.</i>
Map XII:	<i>Area D2: Detailed characteristics of the seabed.</i>
Map XIII:	<i>Area D3: Detailed characteristics of the seabed.</i>
Map XIV:	<i>Area D4: Detailed characteristics of the seabed.</i>
Map XV:	<i>Area G1-2: Detailed characteristics of the seabed - 1/3.</i>
Map XVI:	<i>Area G1-2: Detailed characteristics of the seabed - 2/3.</i>
Map XVII:	<i>Area G1-2: Detailed characteristics of the seabed - 3/3.</i>
Map XVIII:	<i>Area G3: Detailed characteristics of the seabed.</i>
Map XIX:	<i>Area G4: Detailed characteristics of the seabed.</i>

Front page: 3D figure of area D2. Vertical unit exaggerated.

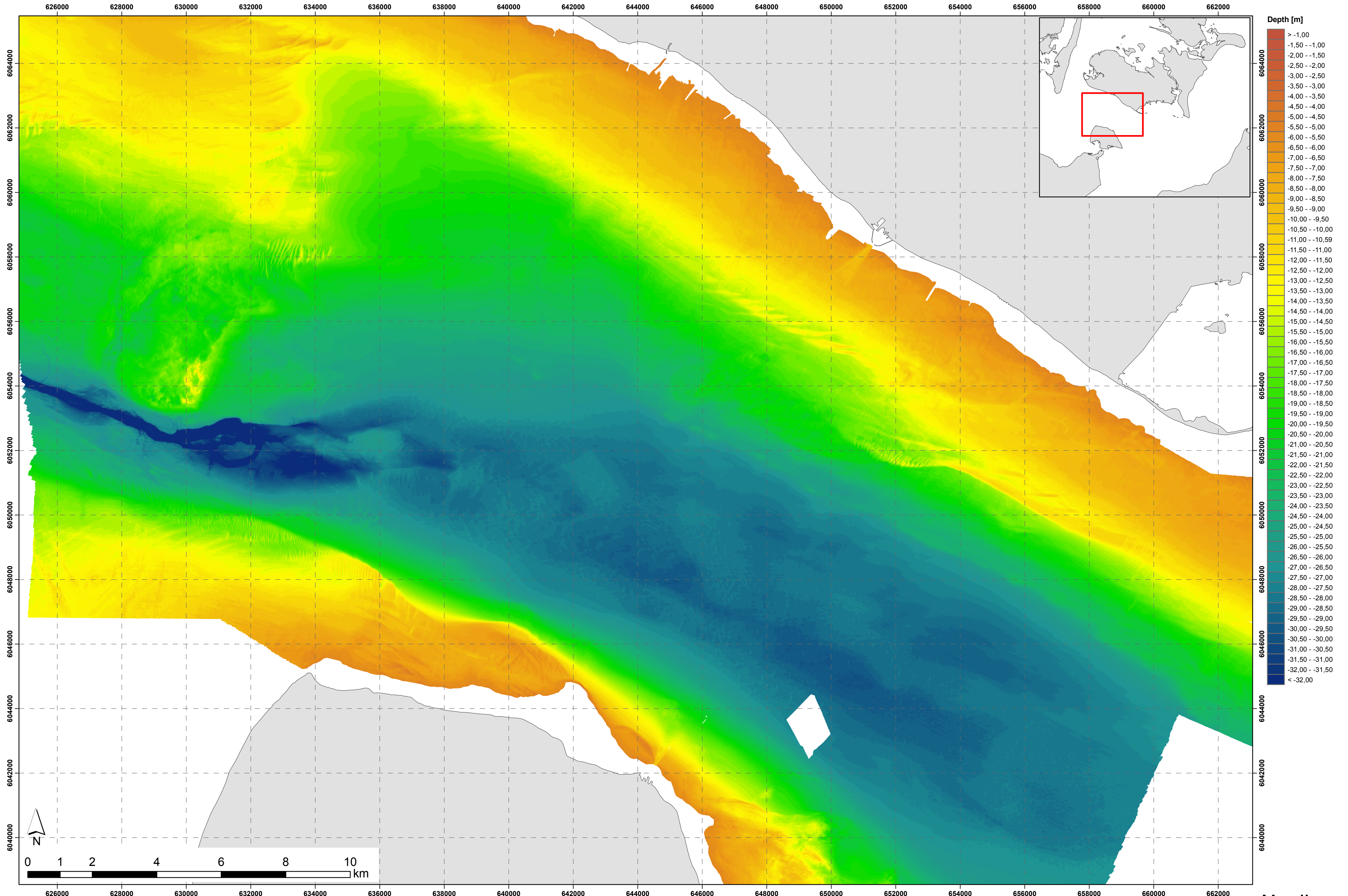


Areas of bed forms. Detailed plots for areas D1-D4 and G1-G4 are supplied in Maps XI-XIX



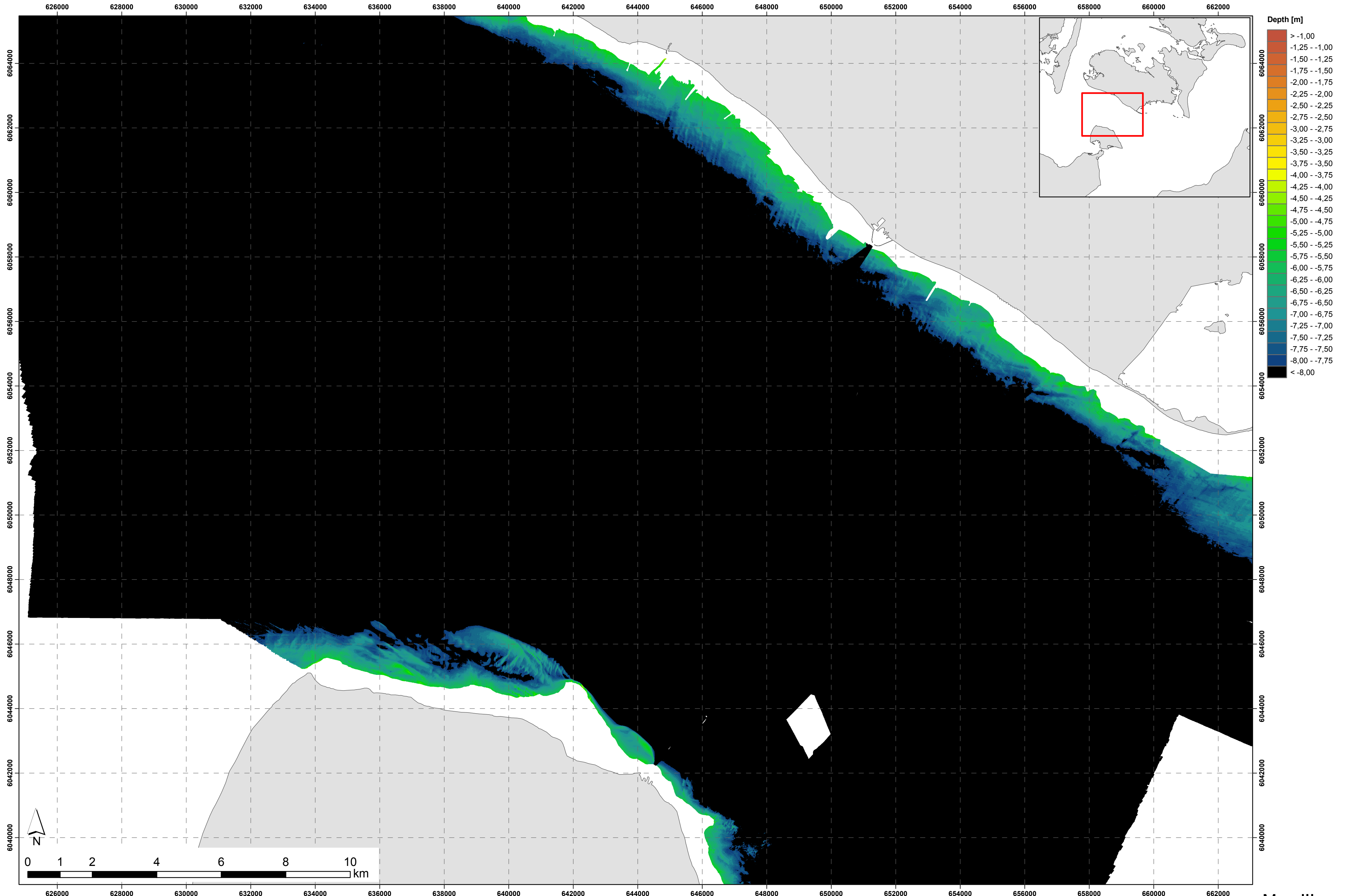


Bathymetry - Depths 0-32 m



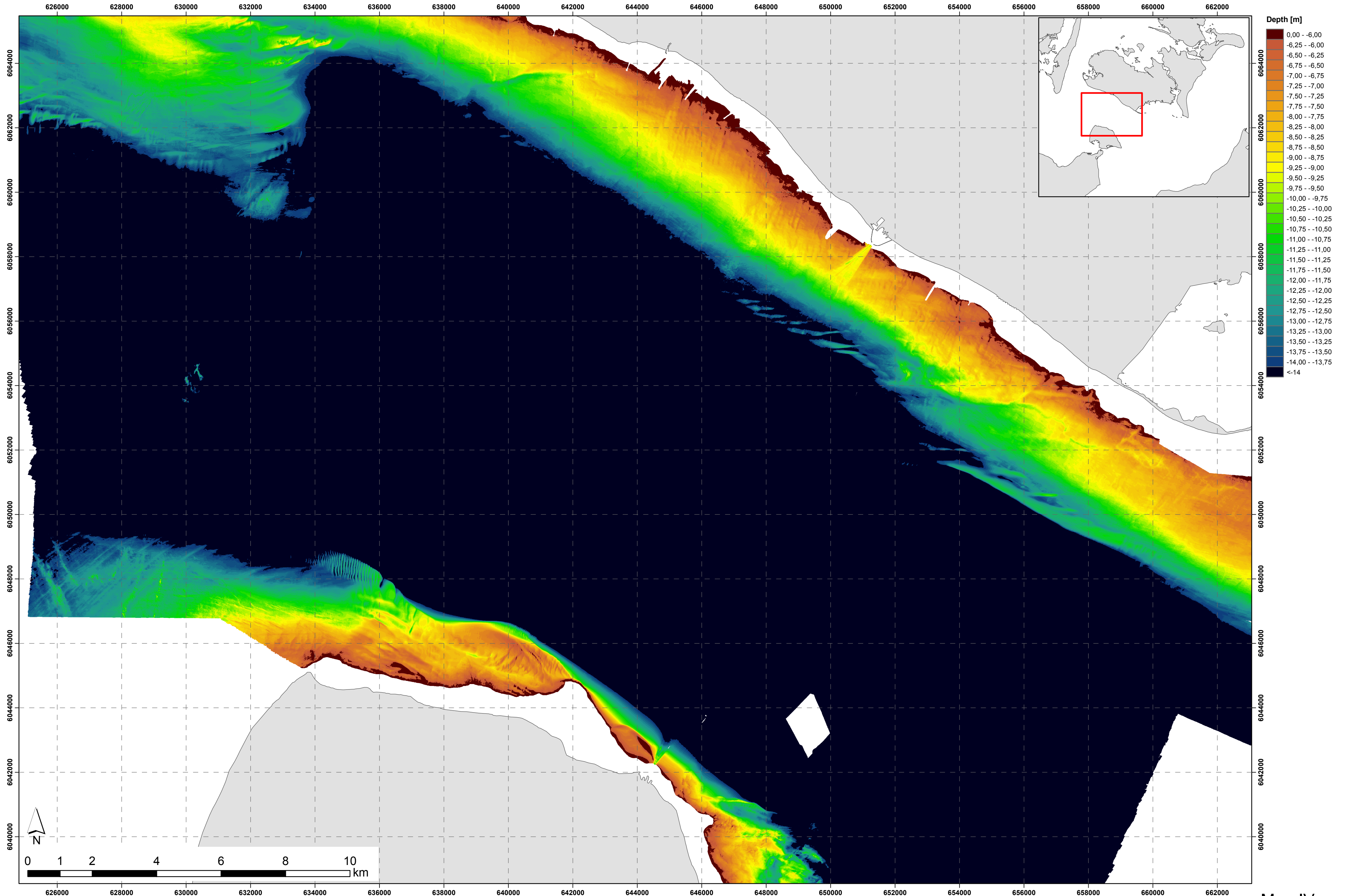


Bathymetry - Depths 0-8 m



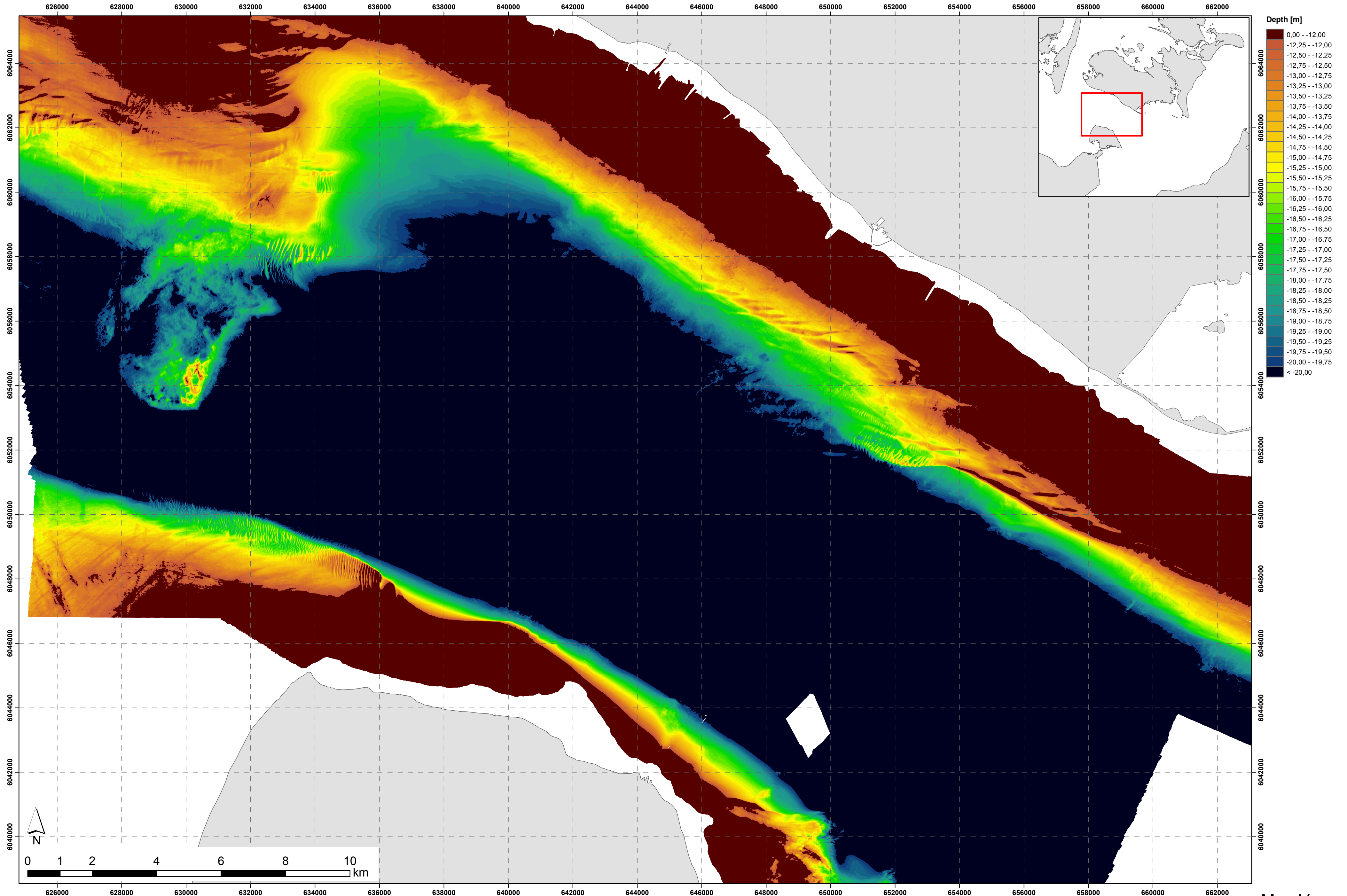


Bathymetry - Depths 6-14 m



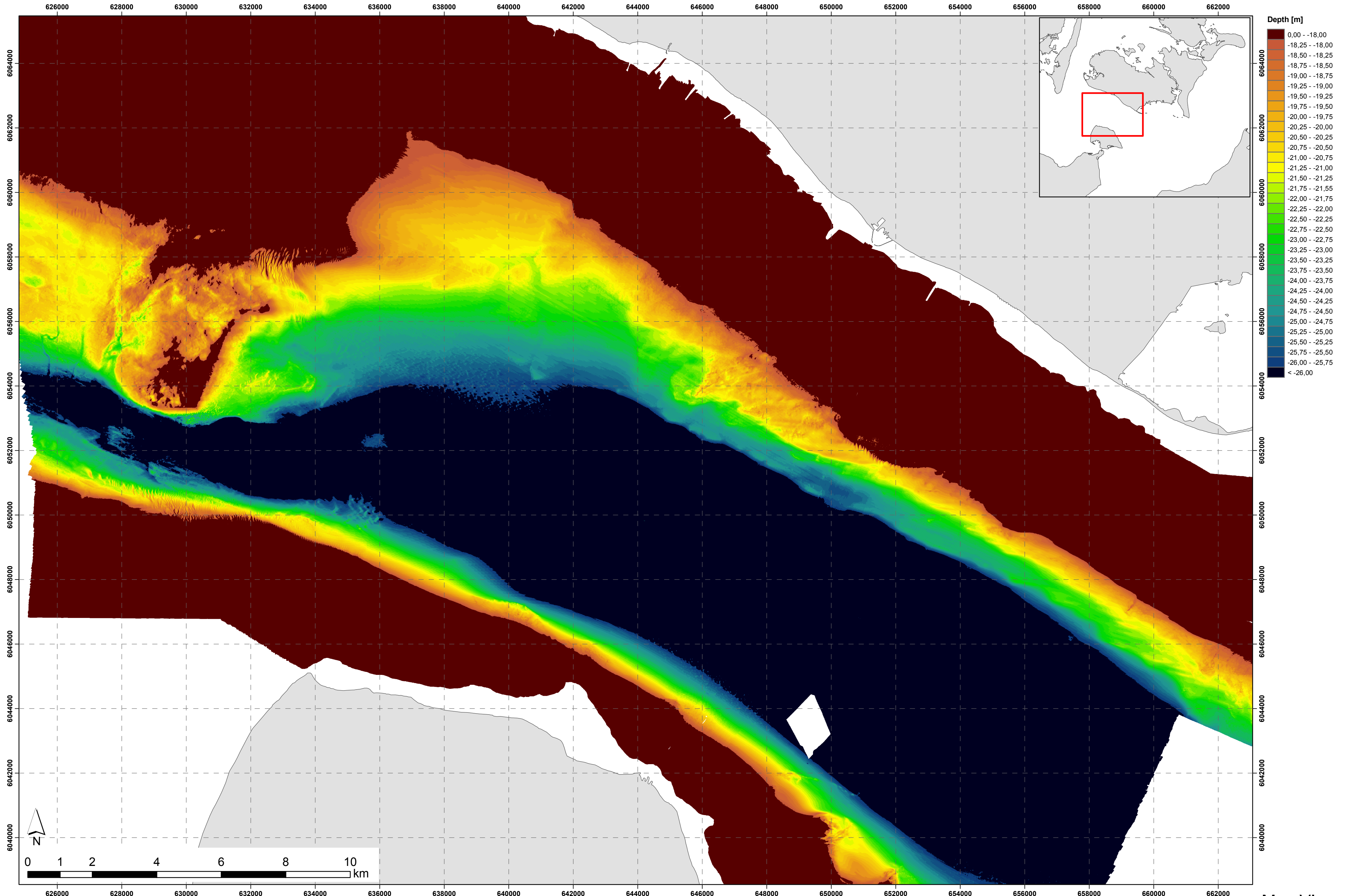


Bathymetry - Depths 12-20 m



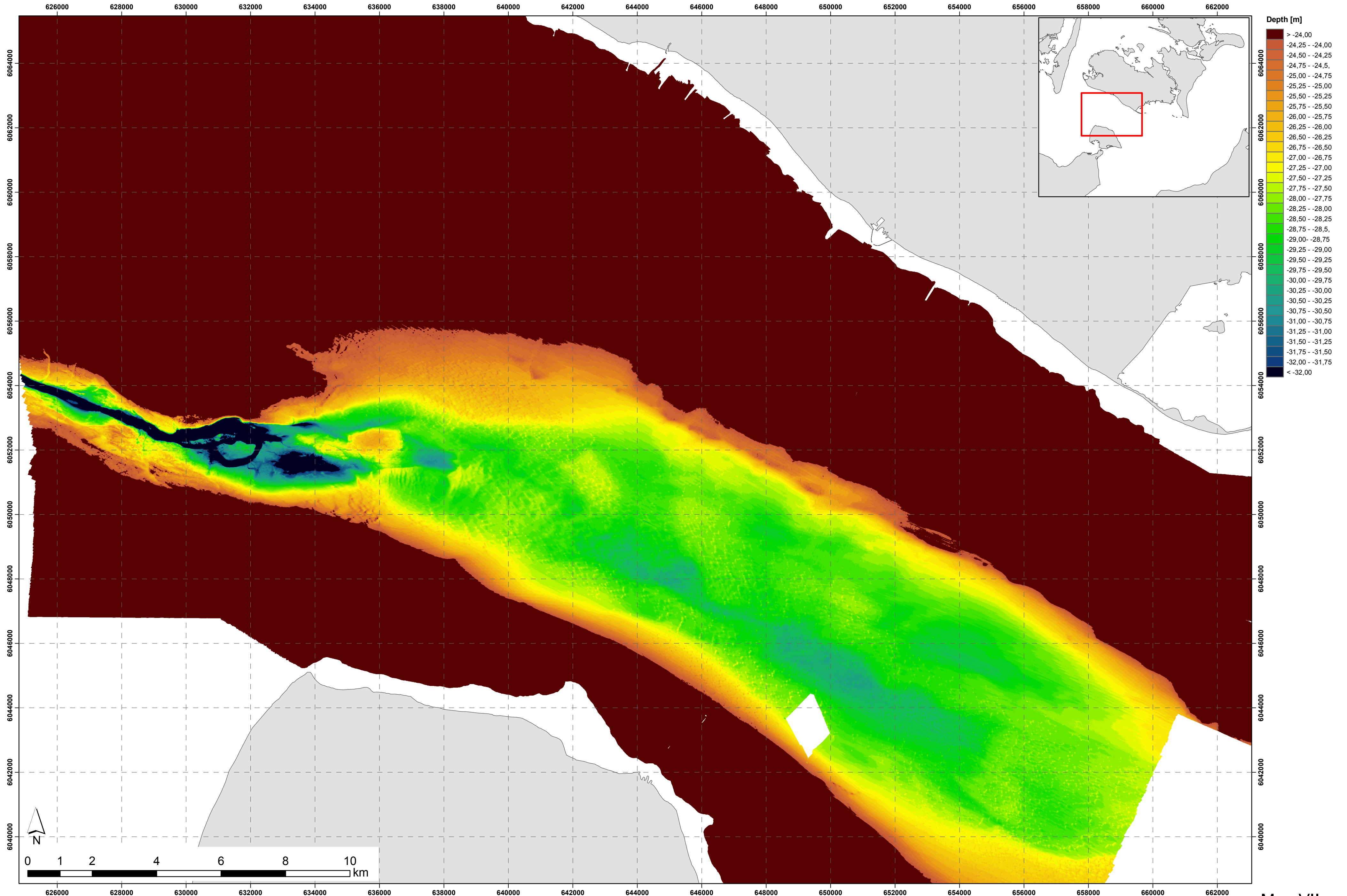


Bathymetry - Depths 18-26 m



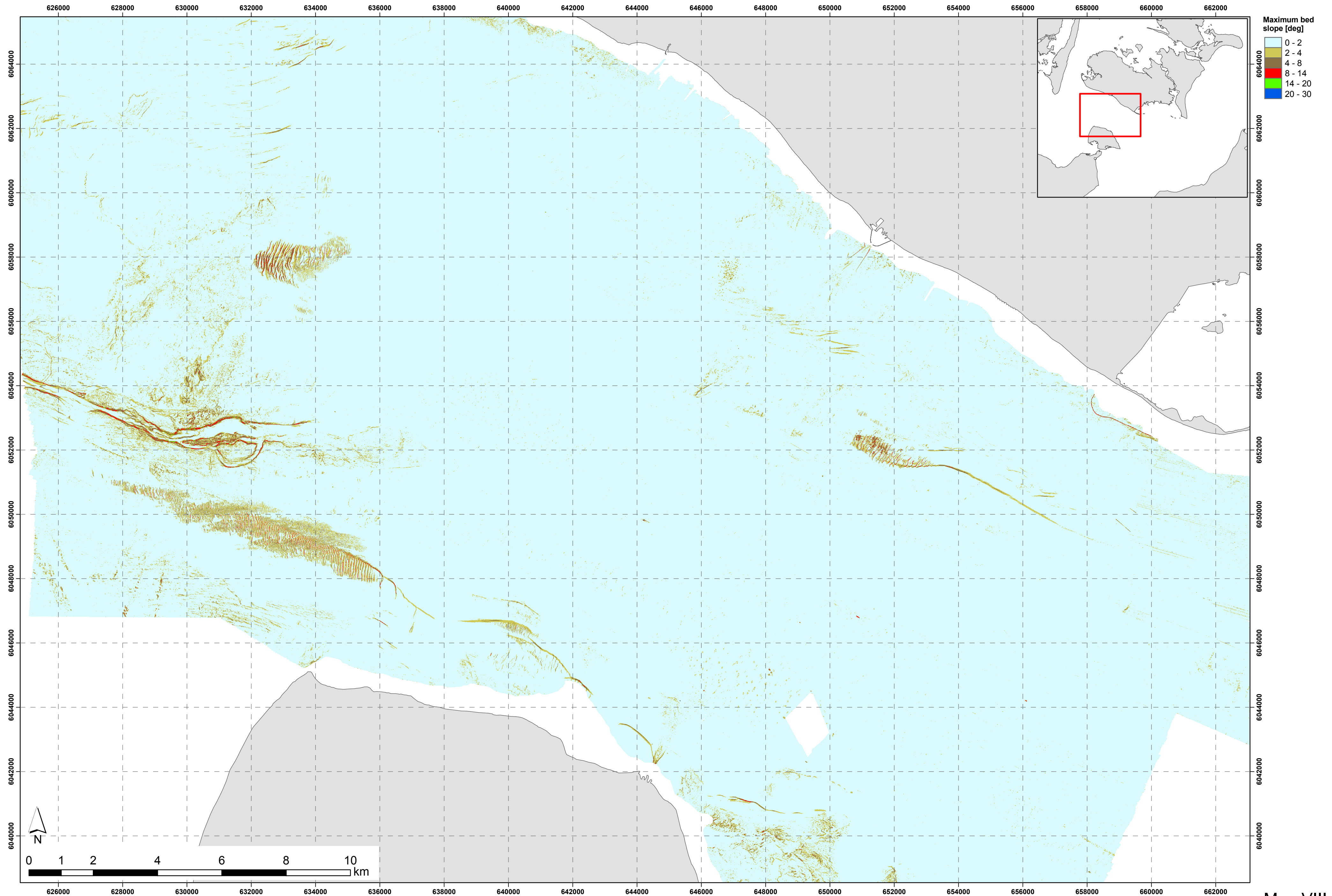


Bathymetry - Depths 24-32 m



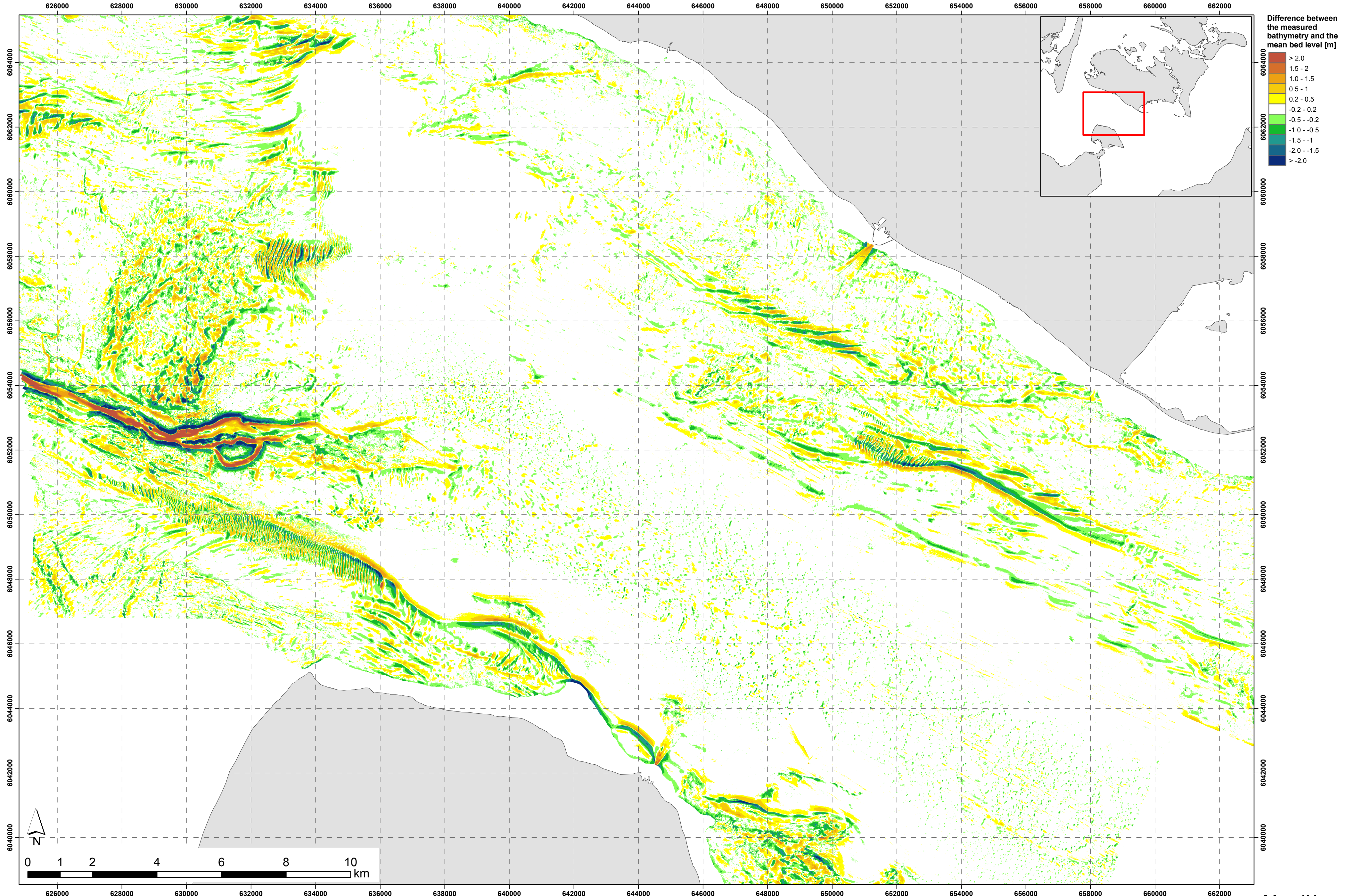


Maximum bed slope



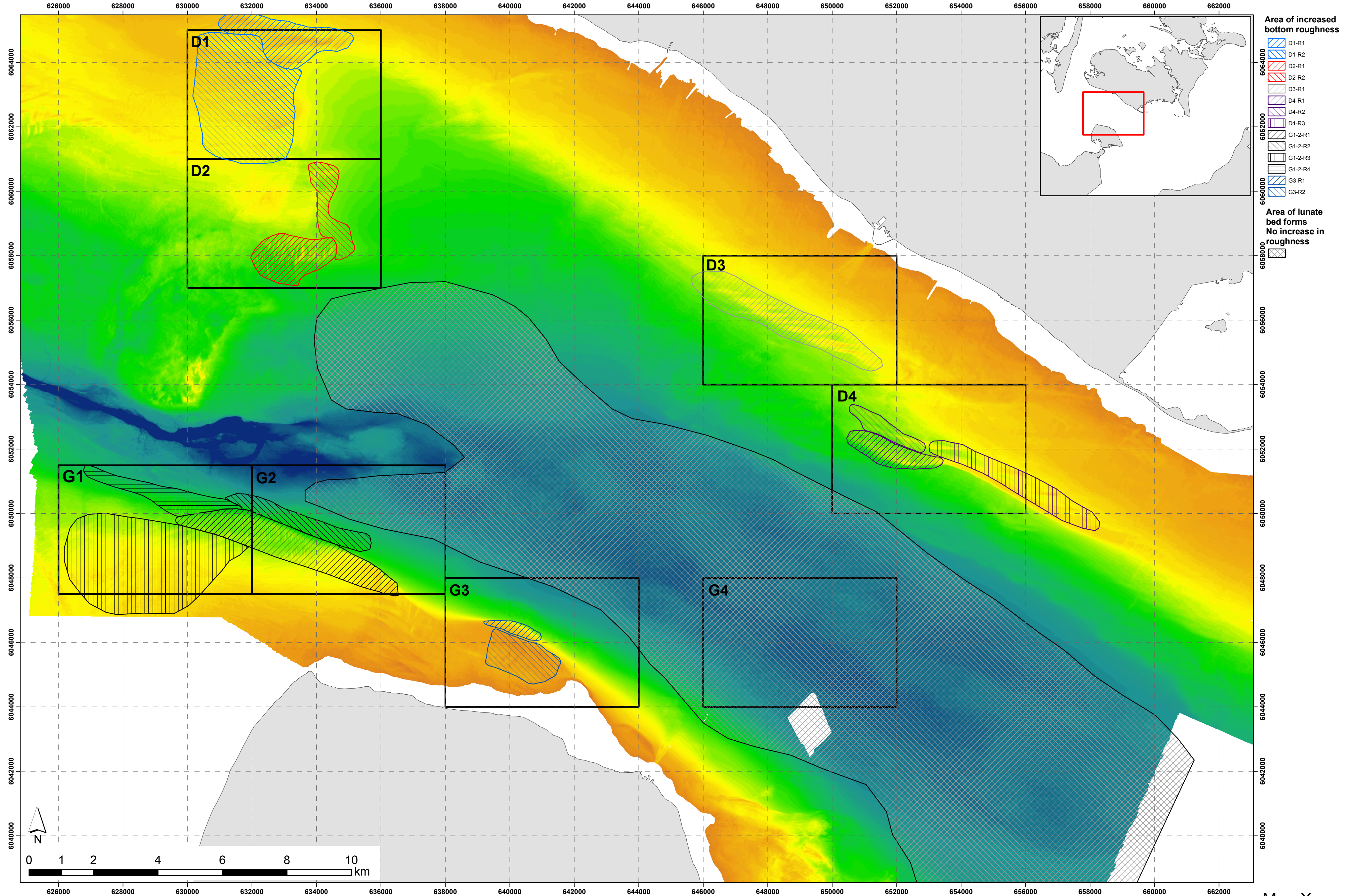


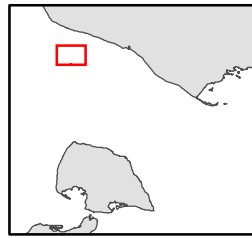
Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m





Areas (hatched) where bed form properties influence the flow resistance. Detailed plots for areas D1-D4 and G1-G4 are supplied in Maps XI-XIX





Area D1: Detailed characteristics of the seabed

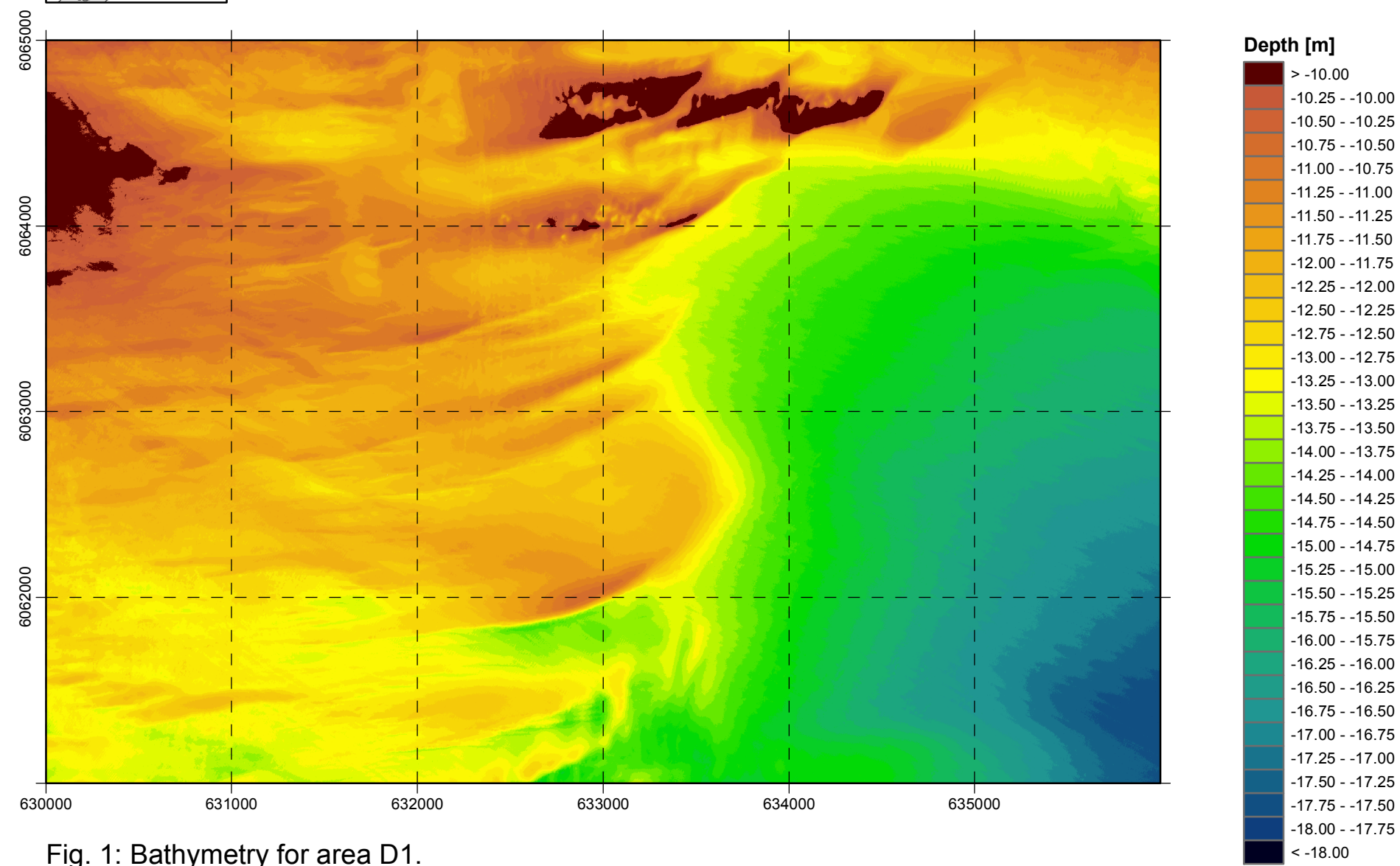


Fig. 1: Bathymetry for area D1.

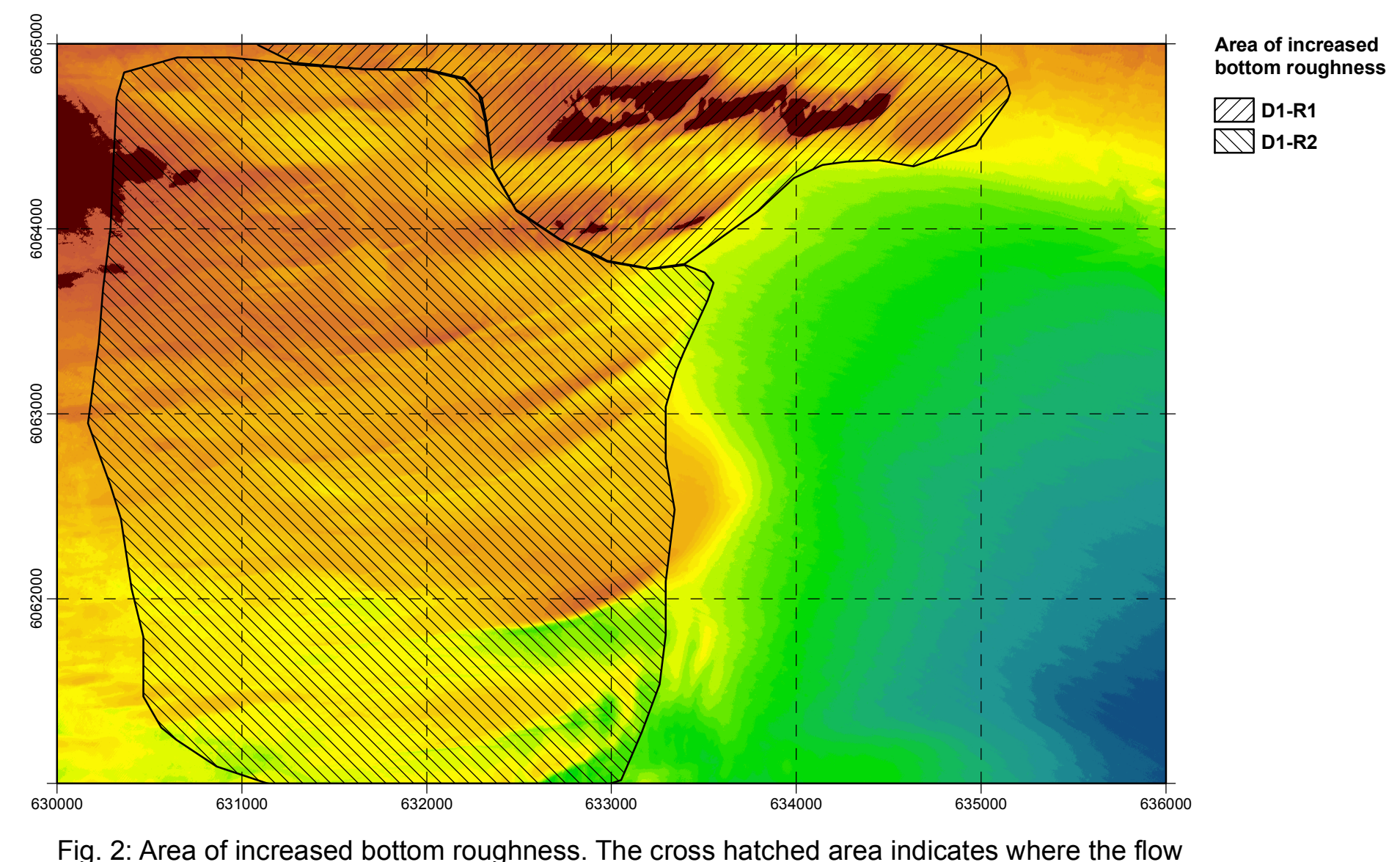


Fig. 2: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.

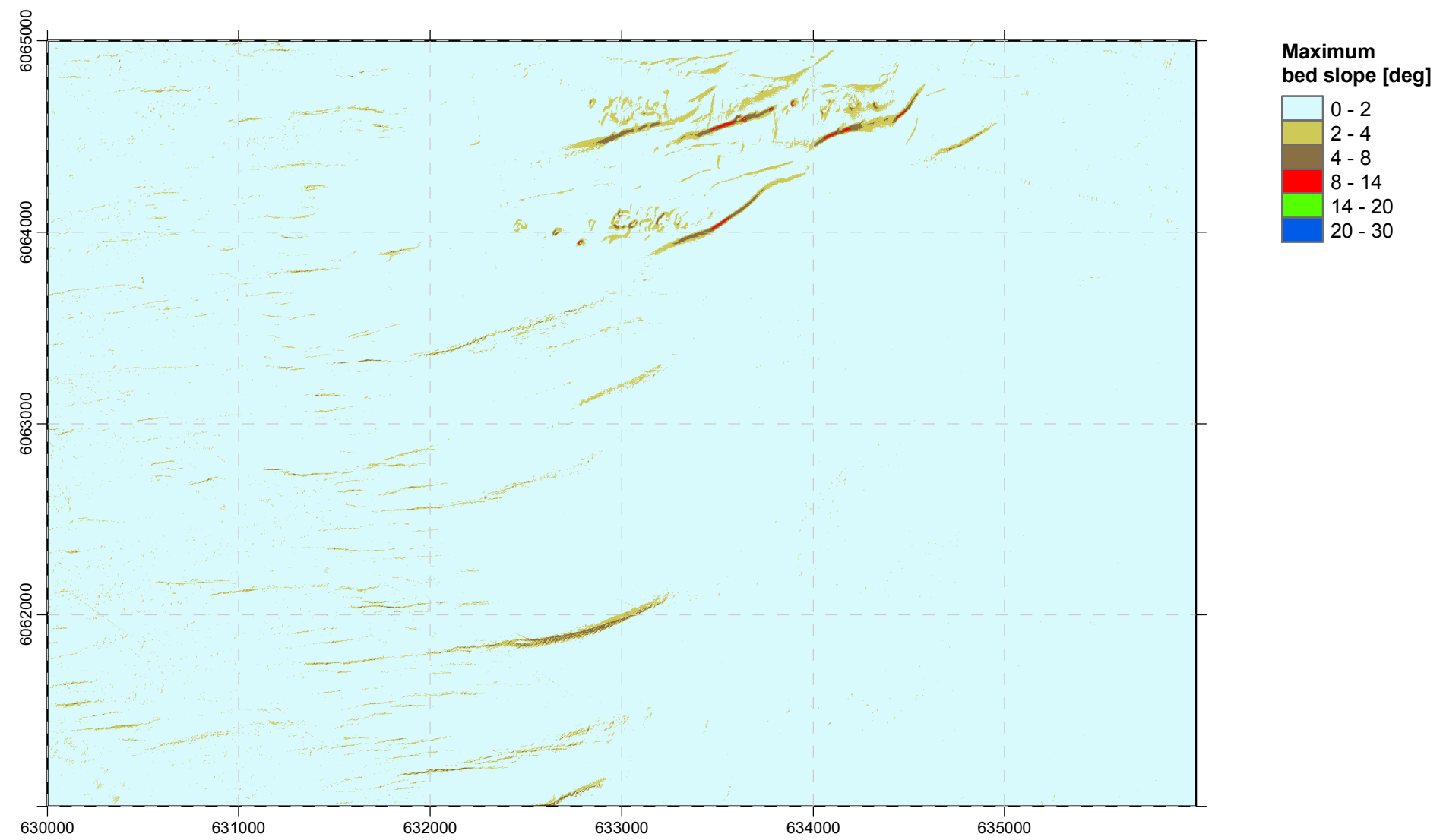


Fig. 3: Maximum bed slope.

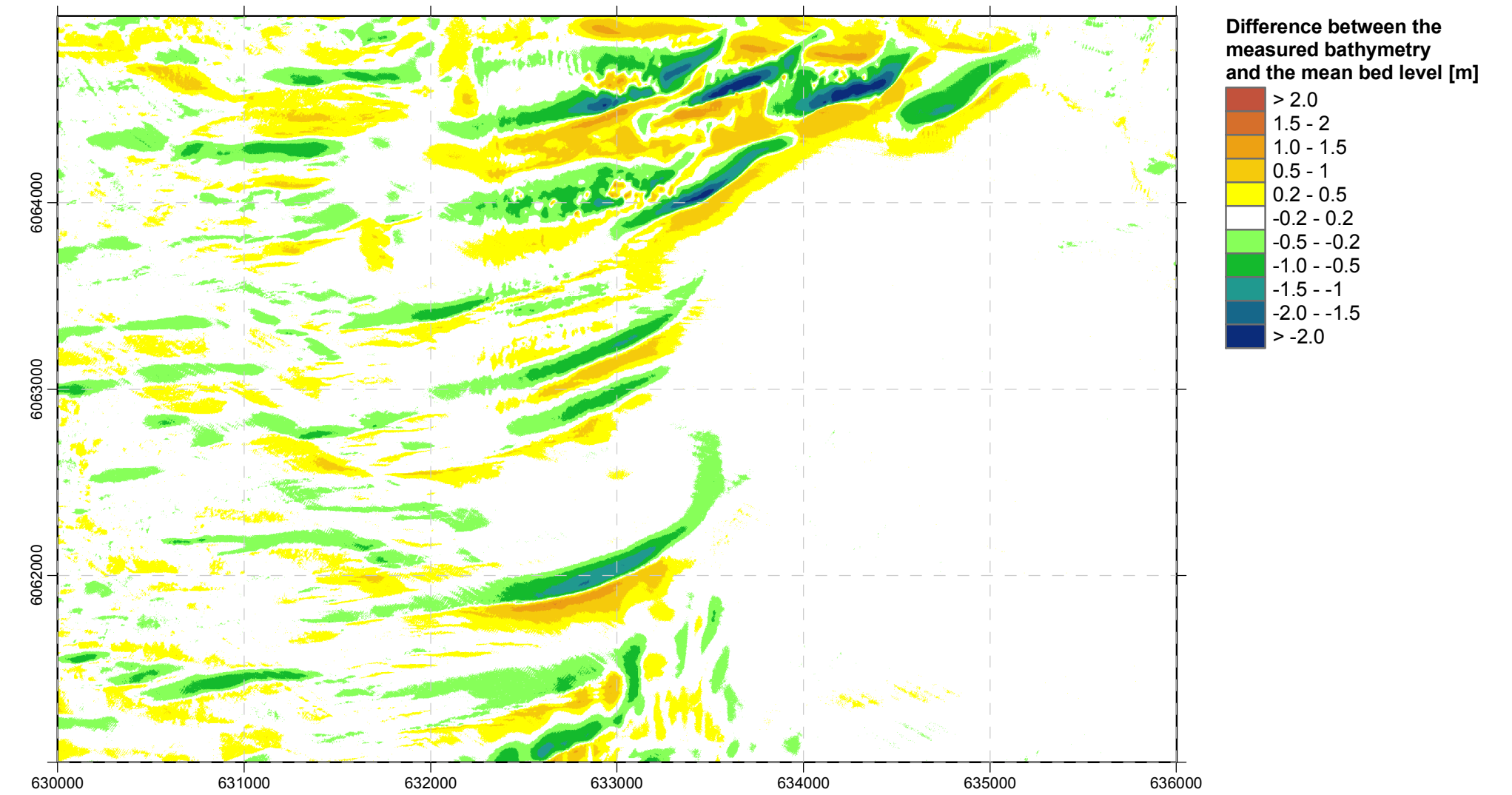
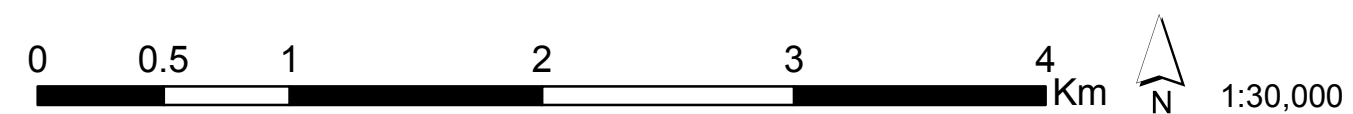
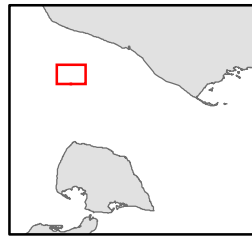


Fig. 4: Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m.





Area D2: Detailed characteristics of the seabed

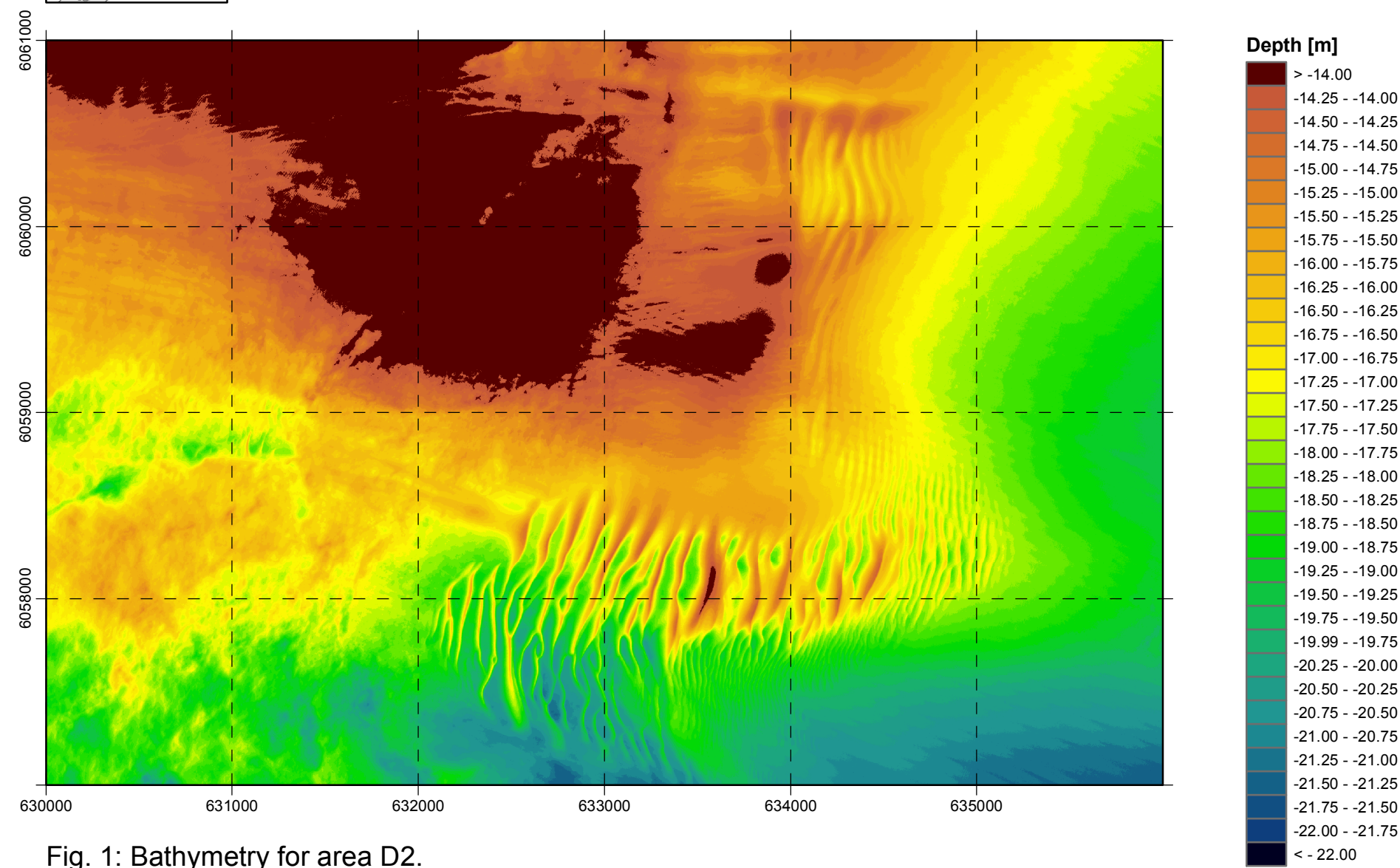


Fig. 1: Bathymetry for area D2.

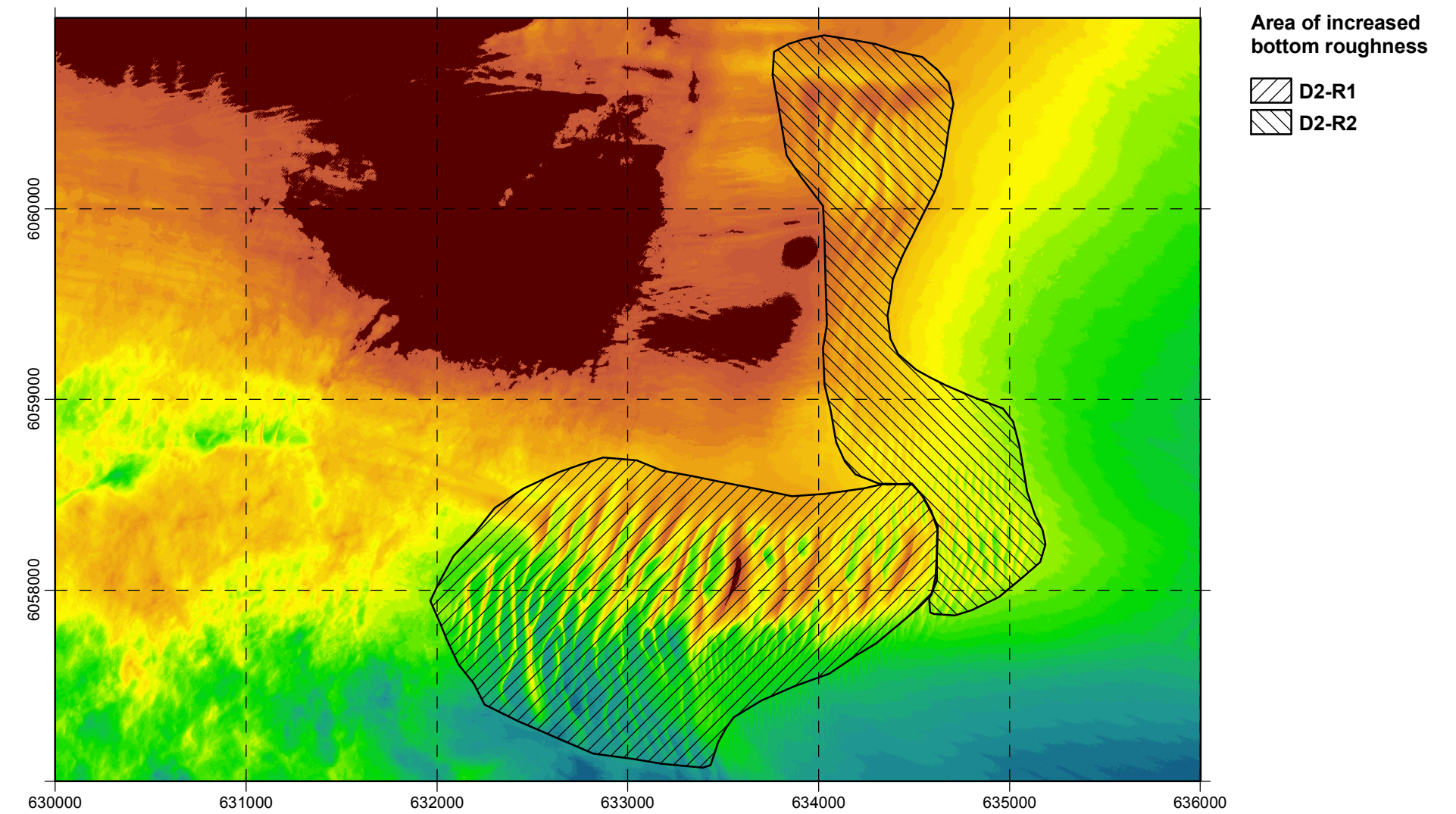


Fig. 2: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.

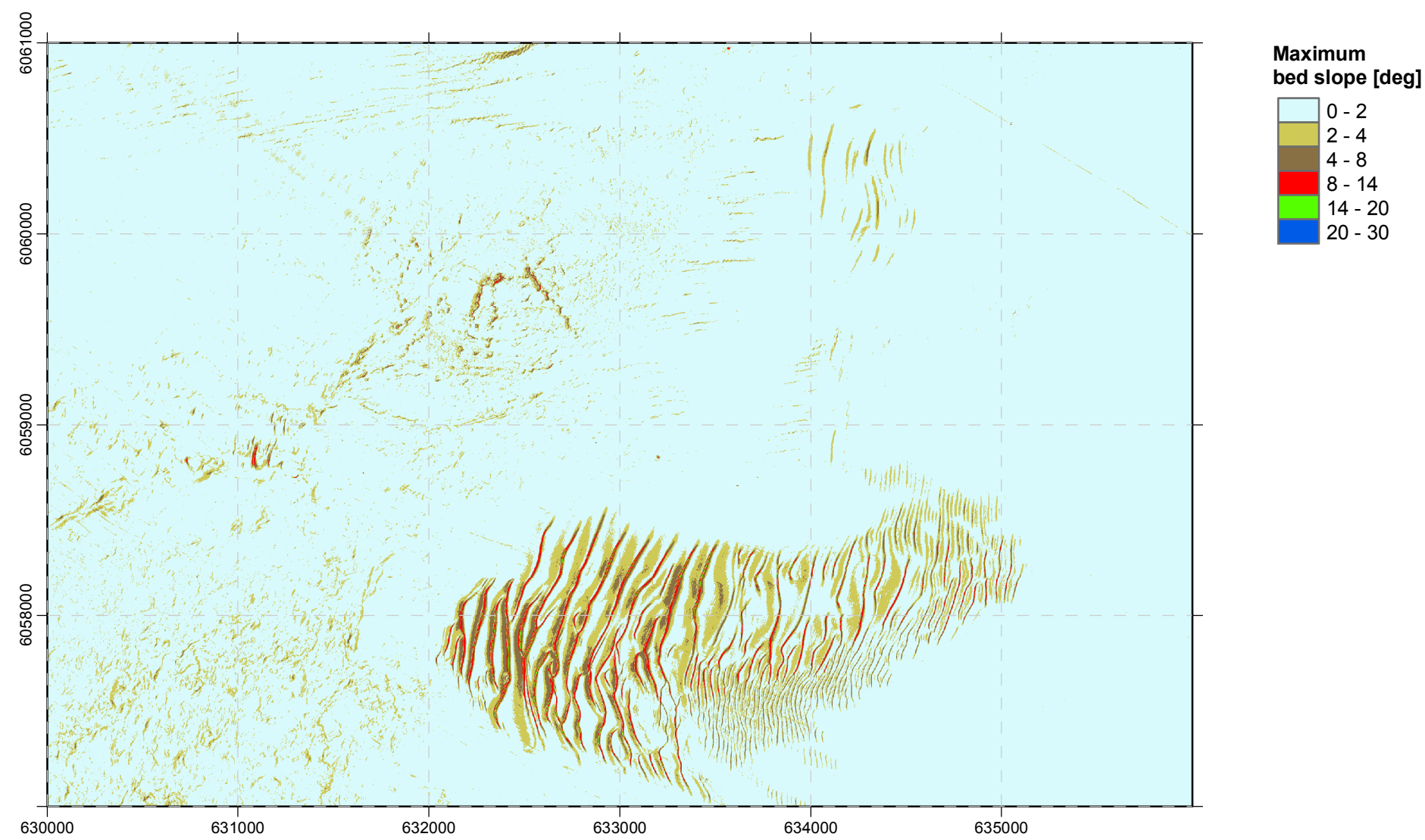


Fig. 3: Maximum bed slope.

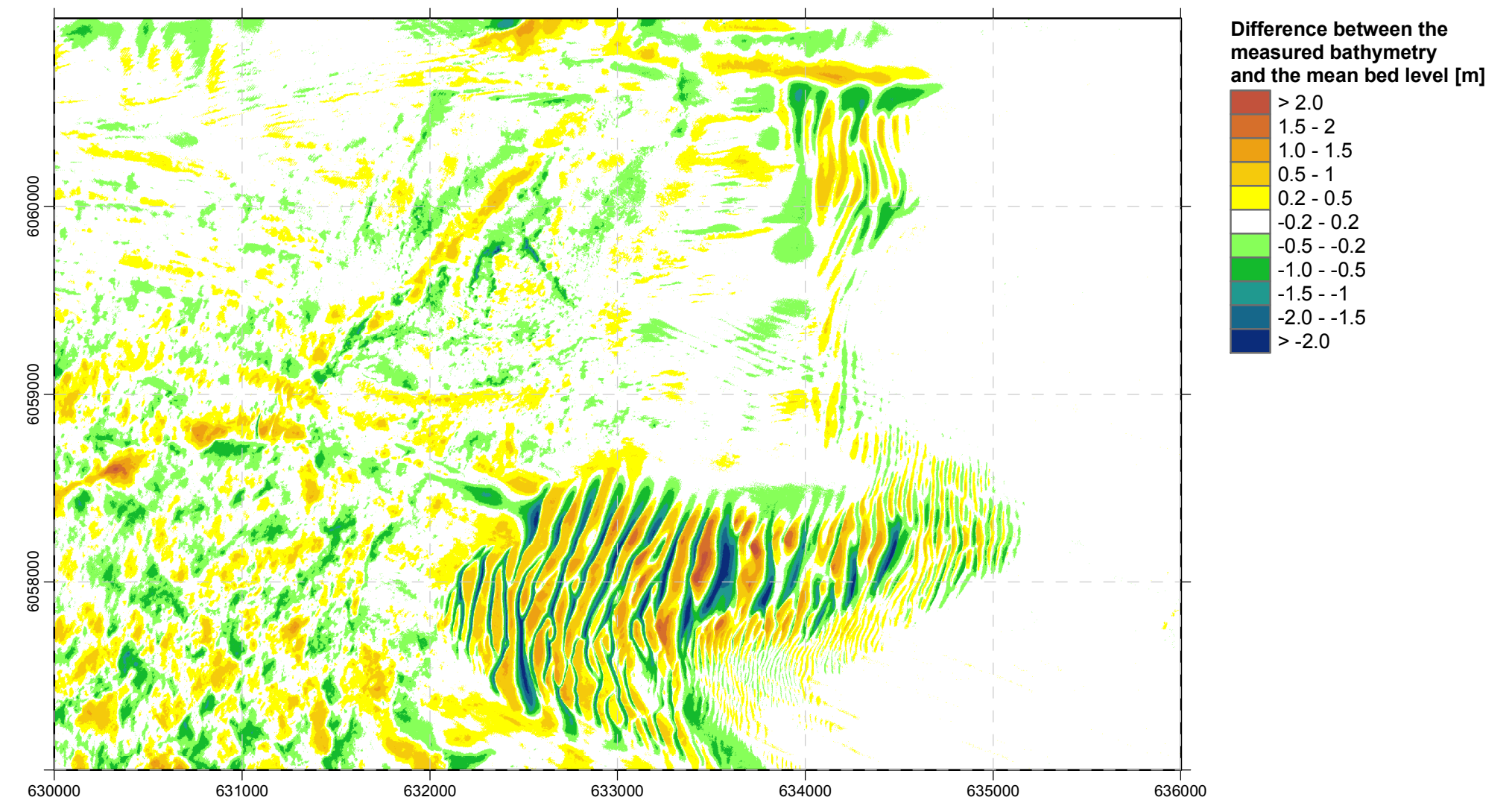
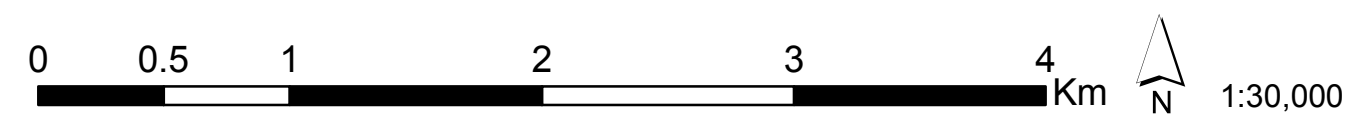
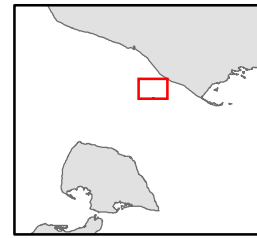


Fig. 4: Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m.





Area D3: Detailed characteristics of the seabed

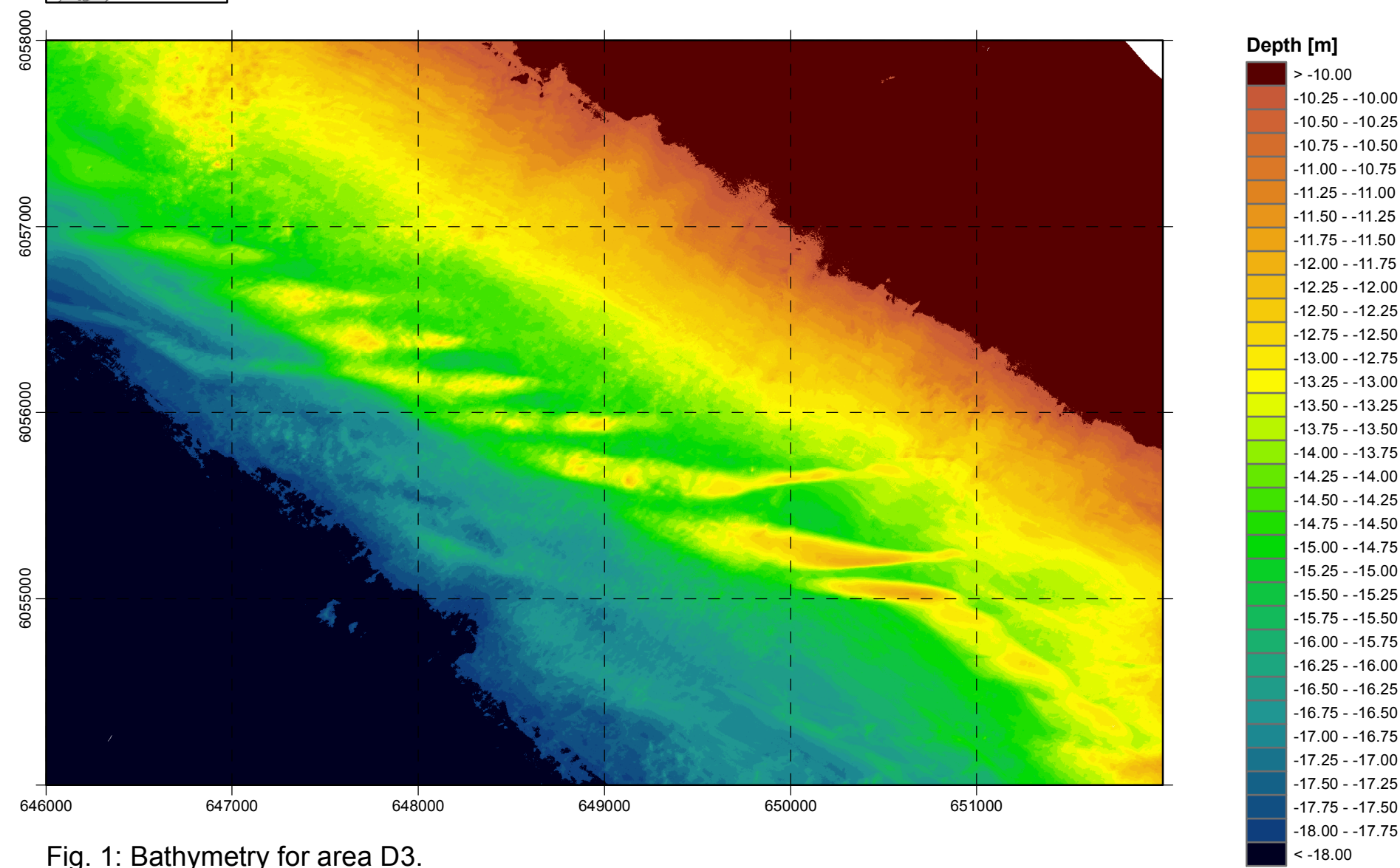


Fig. 1: Bathymetry for area D3.

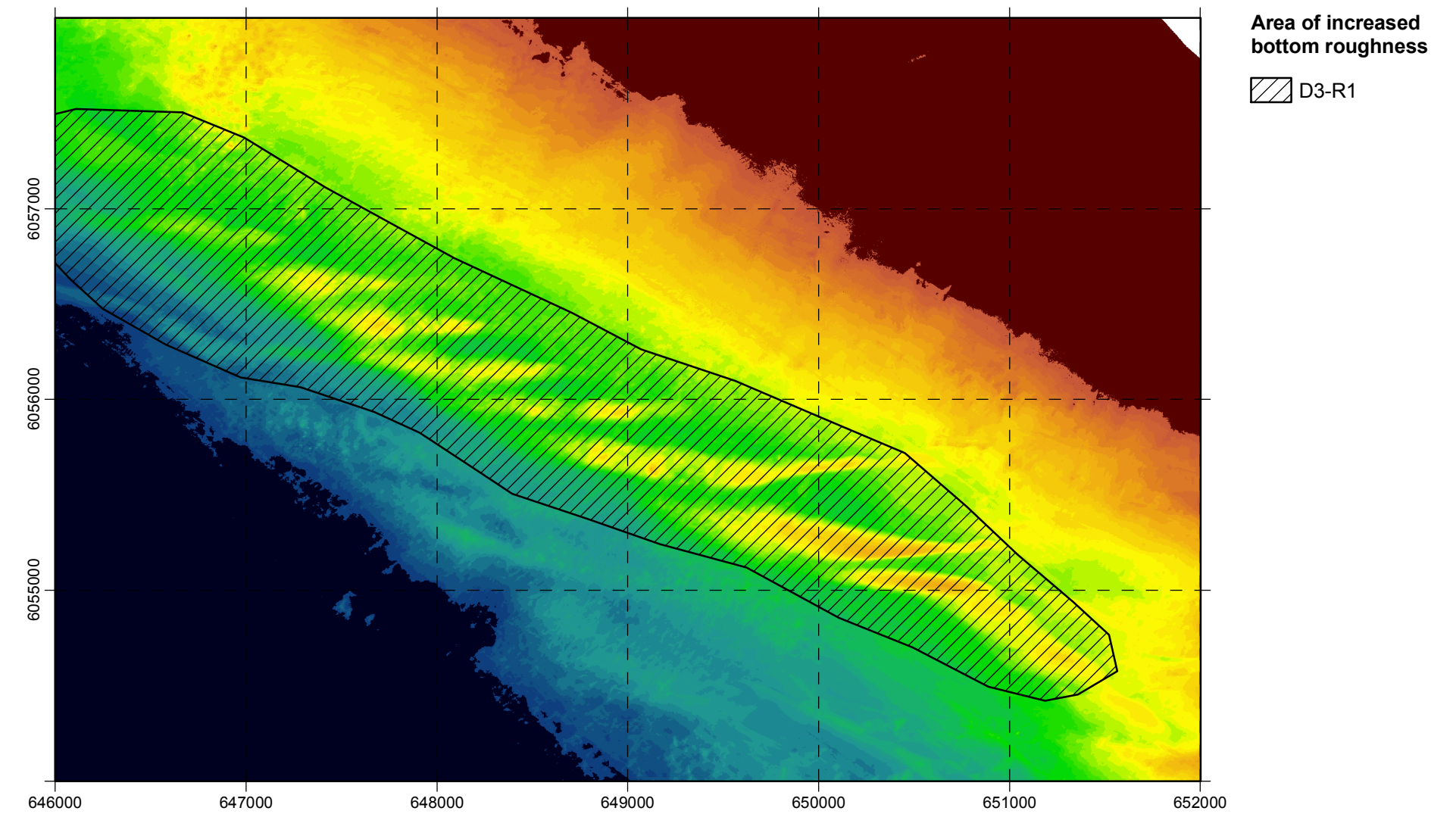


Fig. 2: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.

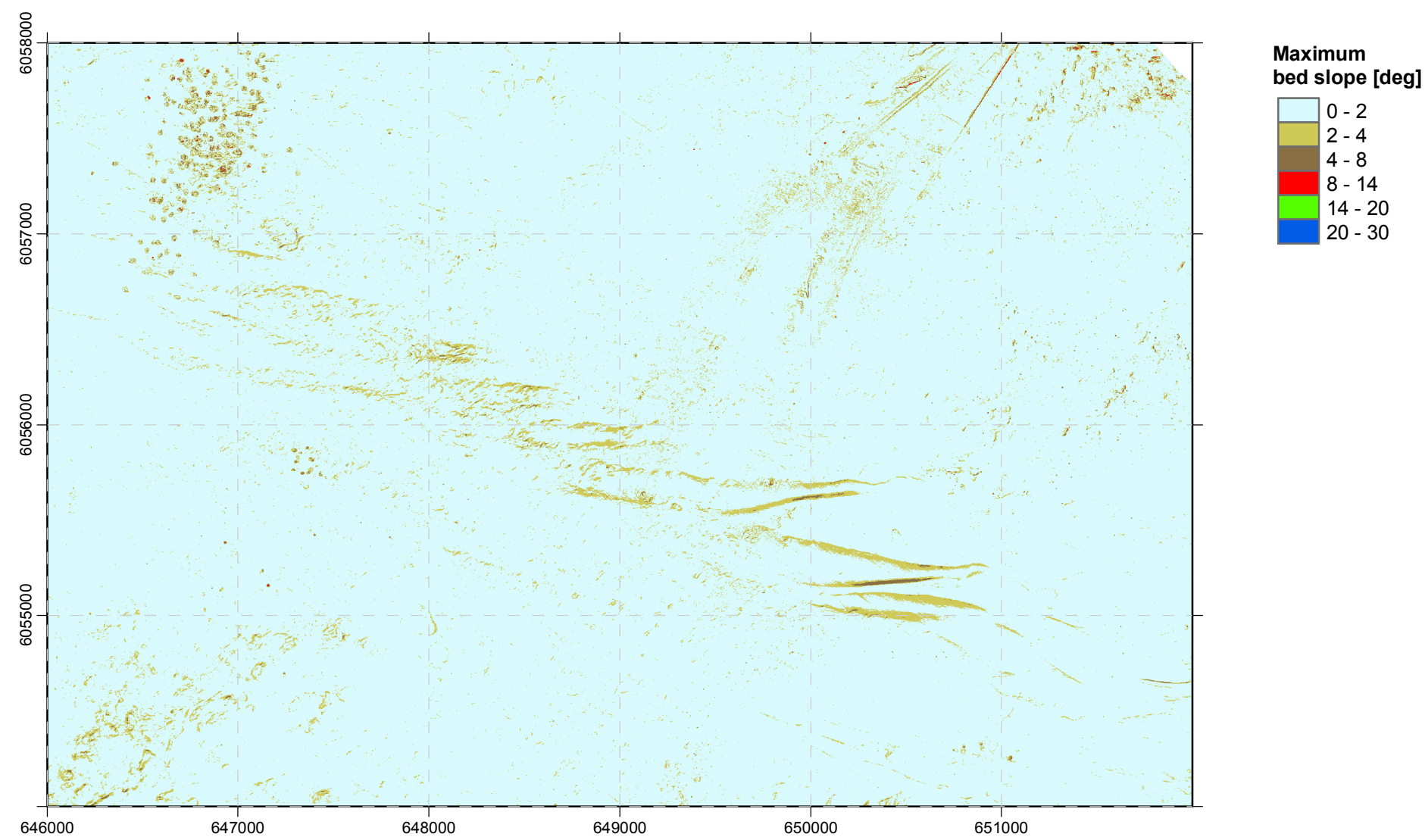


Fig. 3: Maximum bed slope.

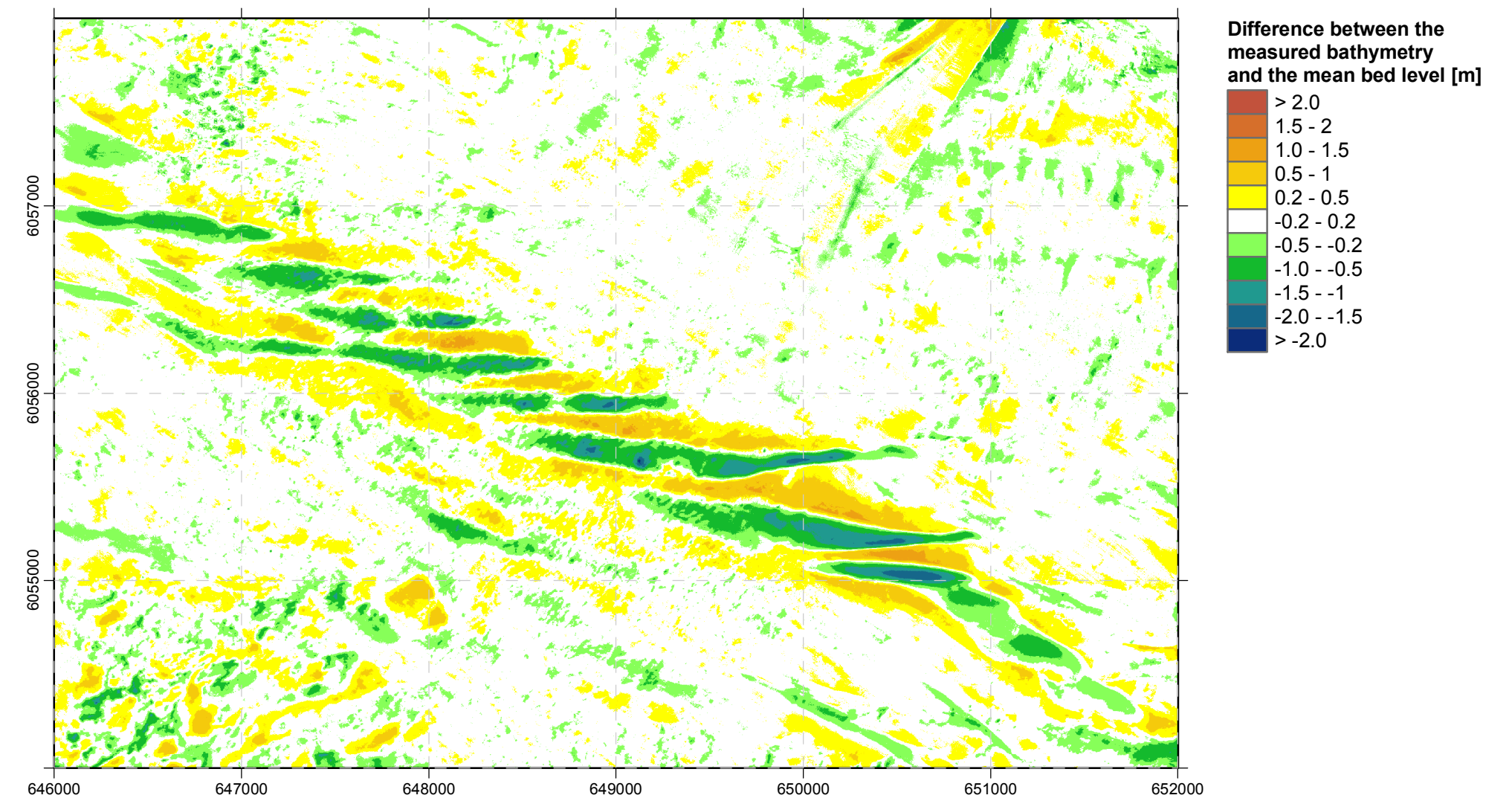
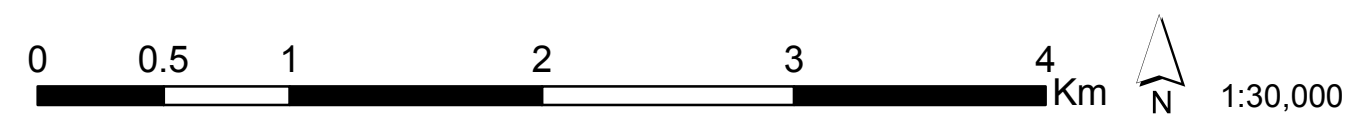
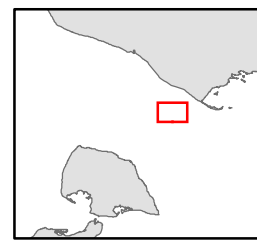


Fig. 4: Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m.





Area D4: Detailed characteristics of the seabed

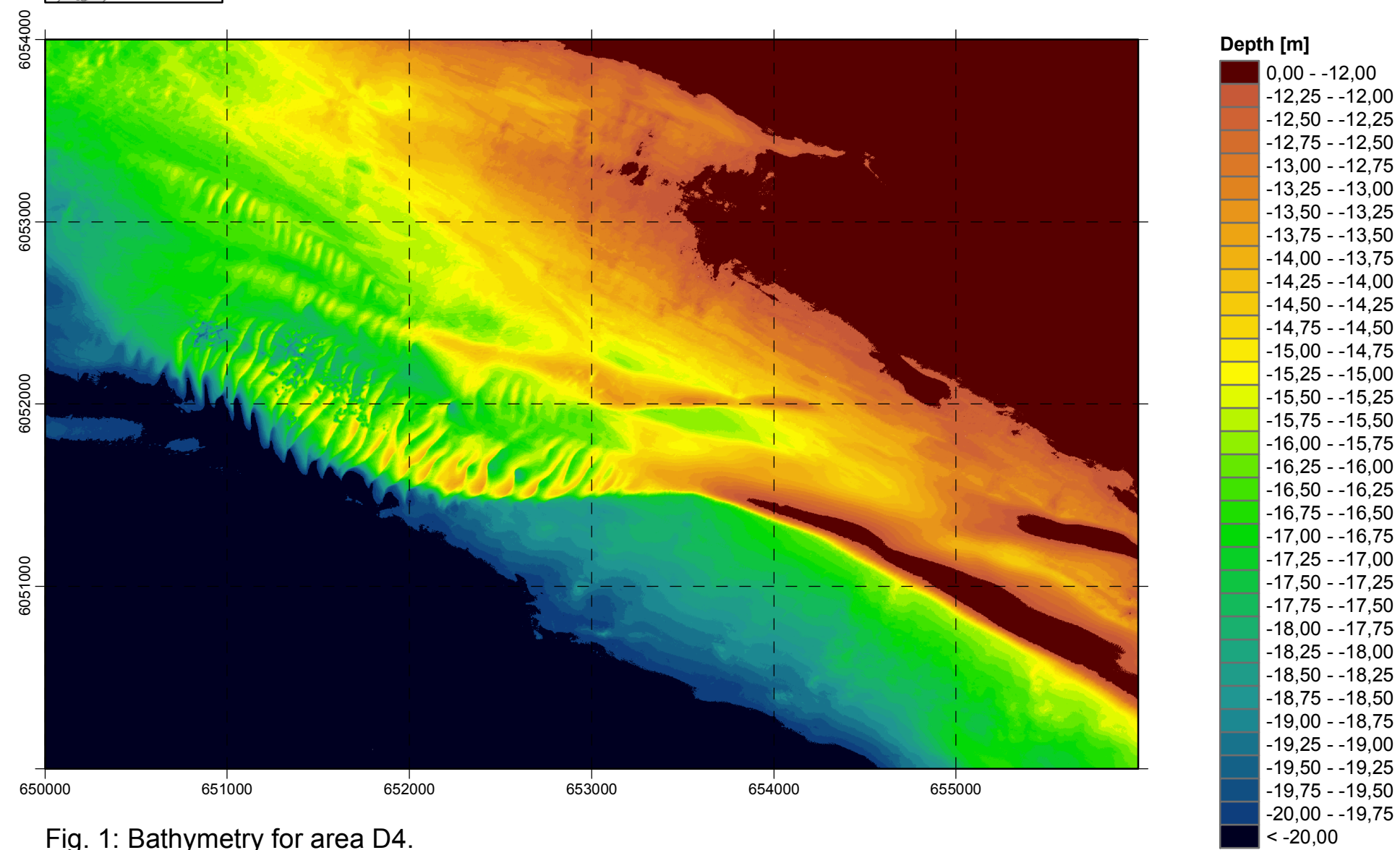


Fig. 1: Bathymetry for area D4.

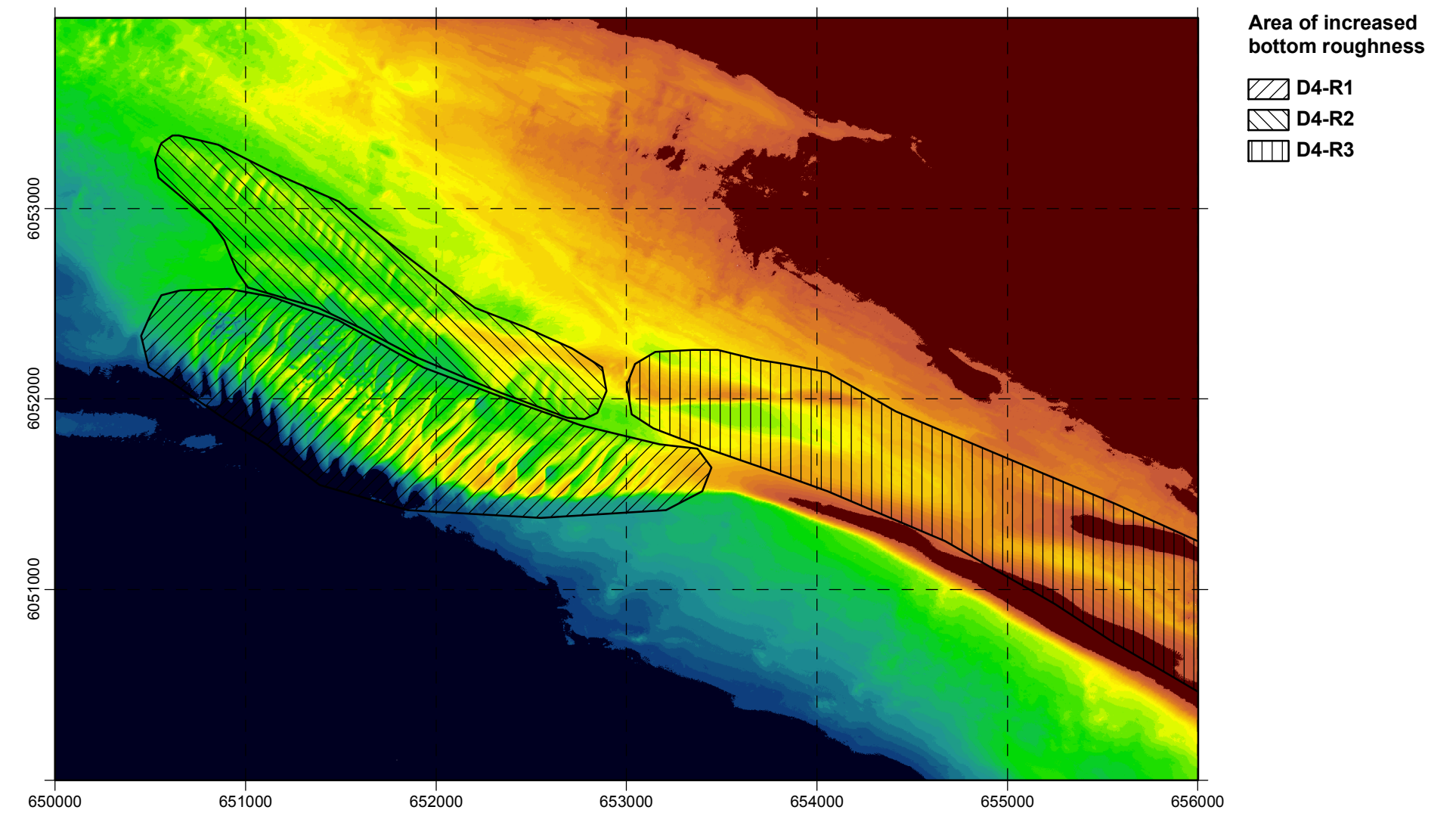


Fig. 2: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.

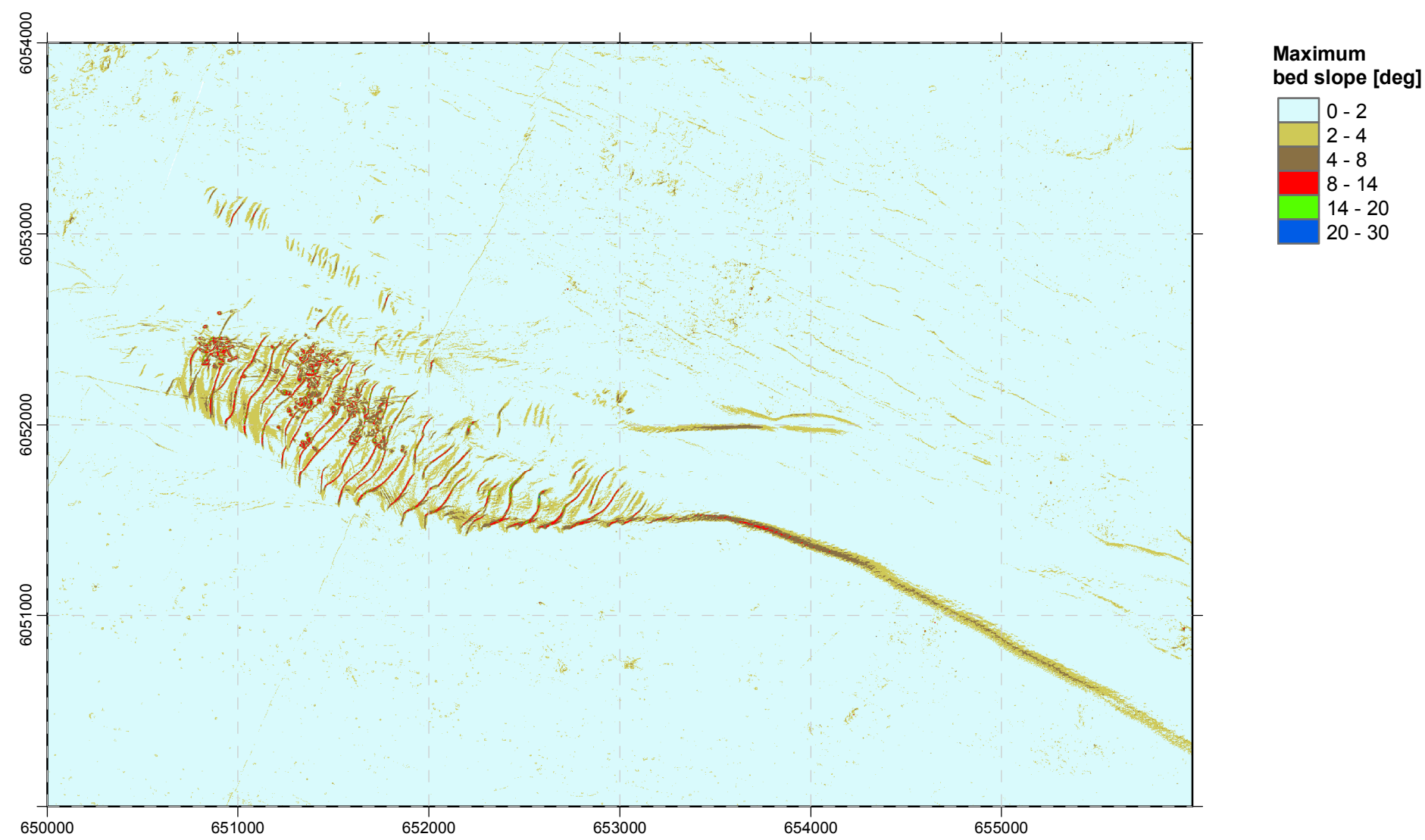


Fig. 3: Maximum bed slope.

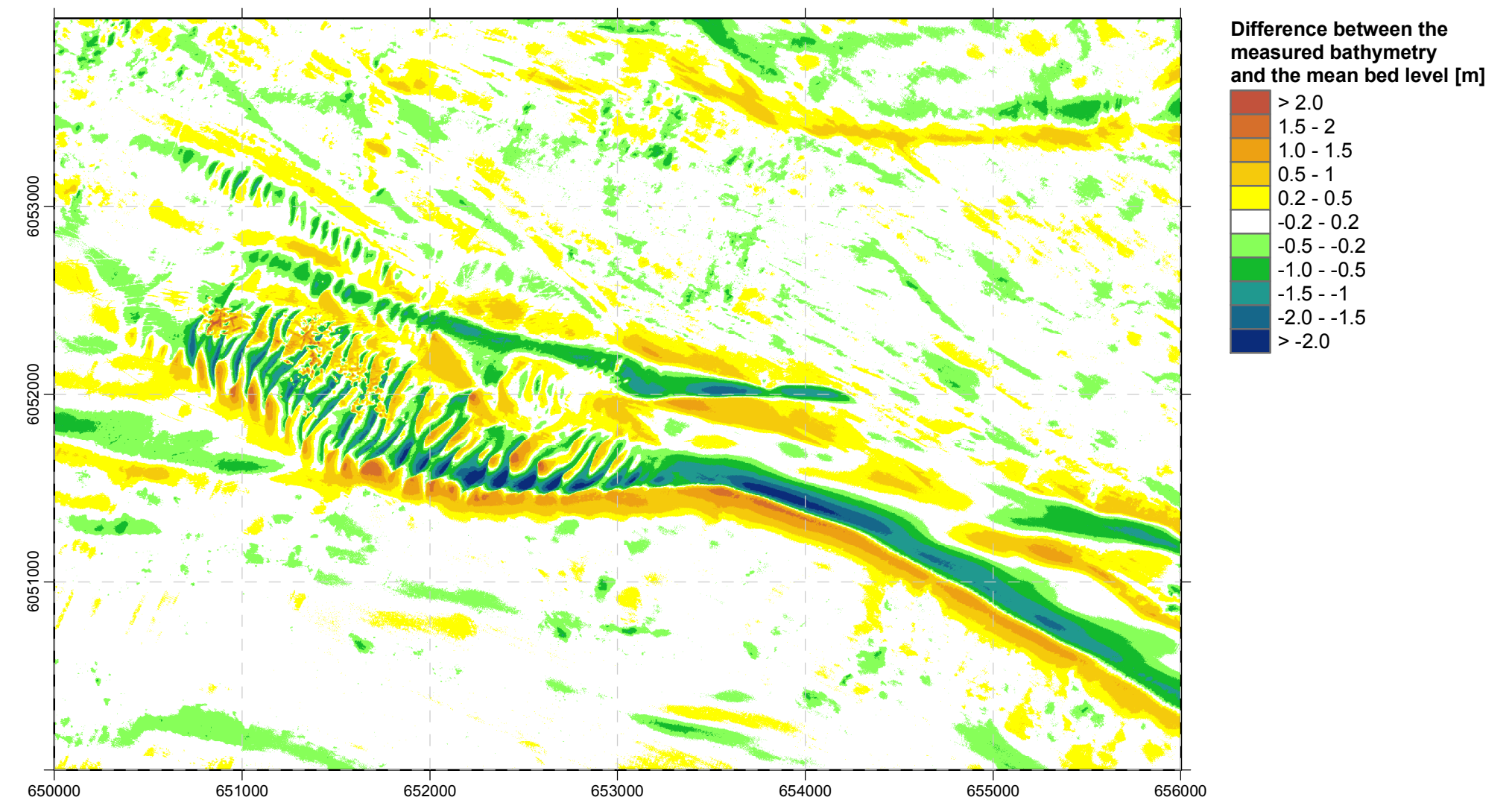
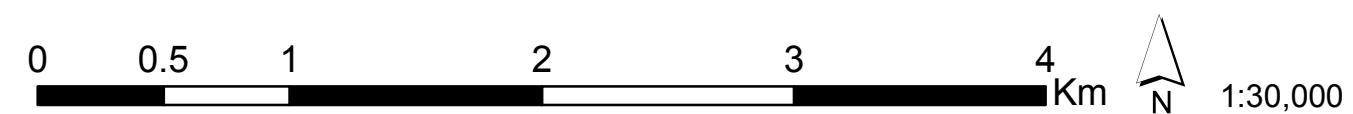
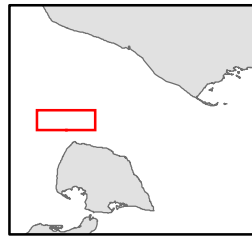


Fig. 4: Difference between the measured bathymetry and the mean bed level. Mean bed level is defined as the average bathymetry within a radius of 200 m.





Area G1-2: Detailed characteristics of the seabed - 1/3

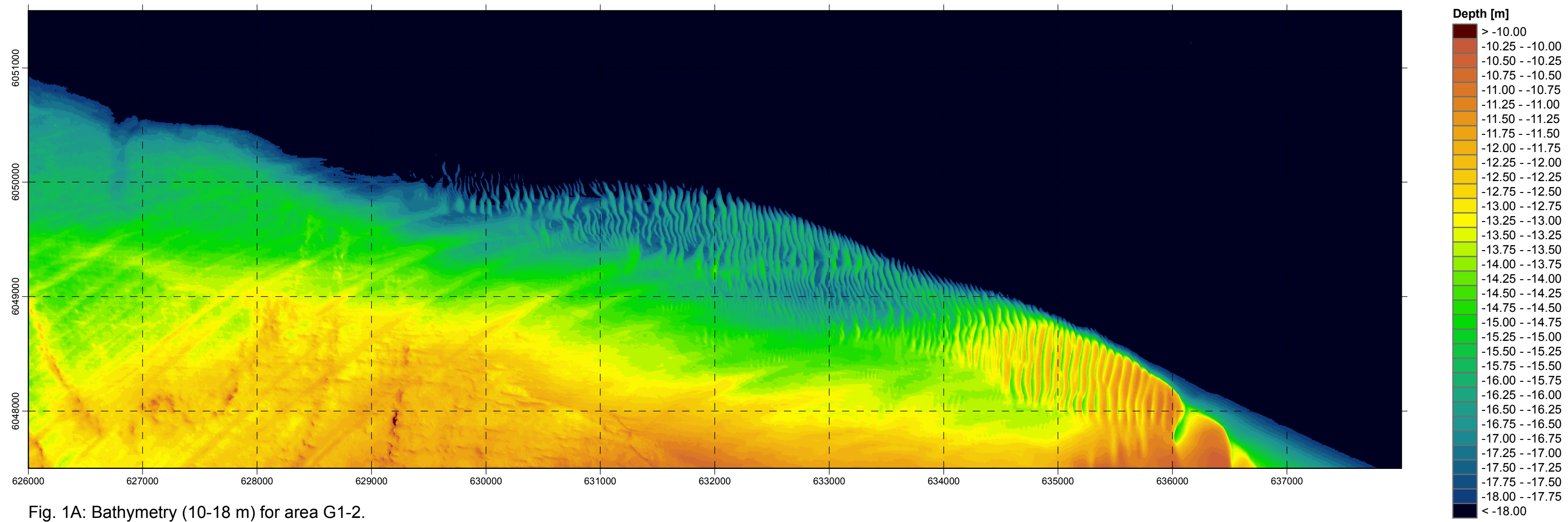


Fig. 1A: Bathymetry (10-18 m) for area G1-2.

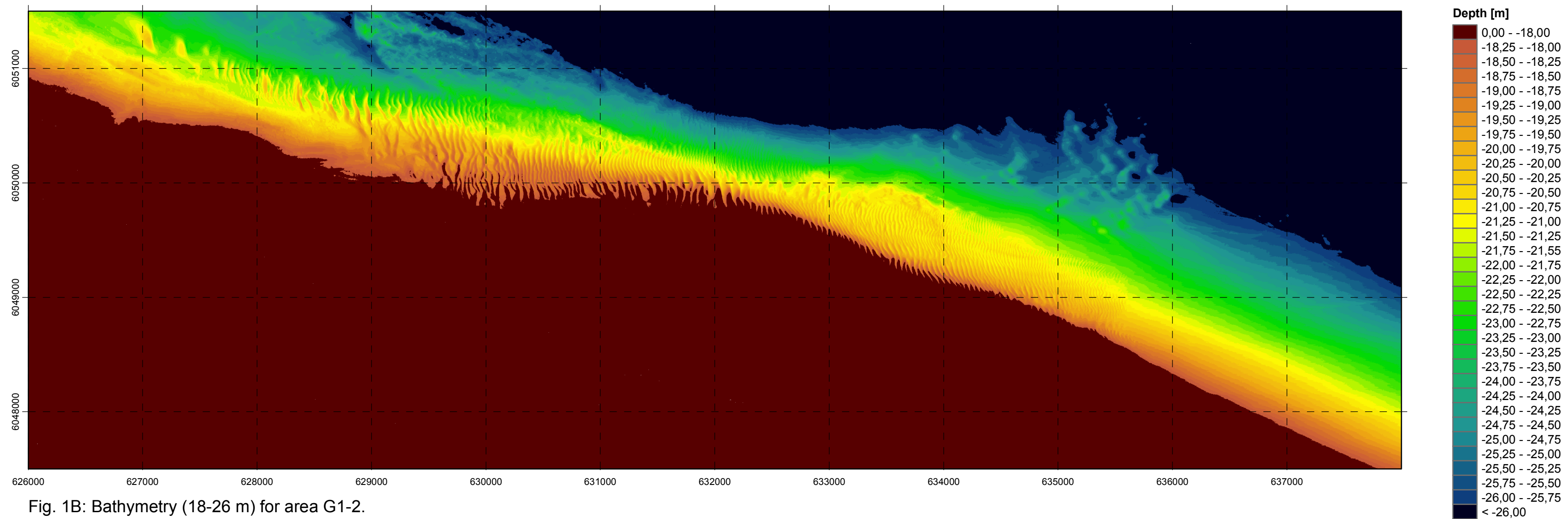
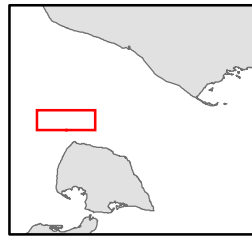


Fig. 1B: Bathymetry (18-26 m) for area G1-2.



Area G1-2: Detailed characteristics of the seabed - 2/3

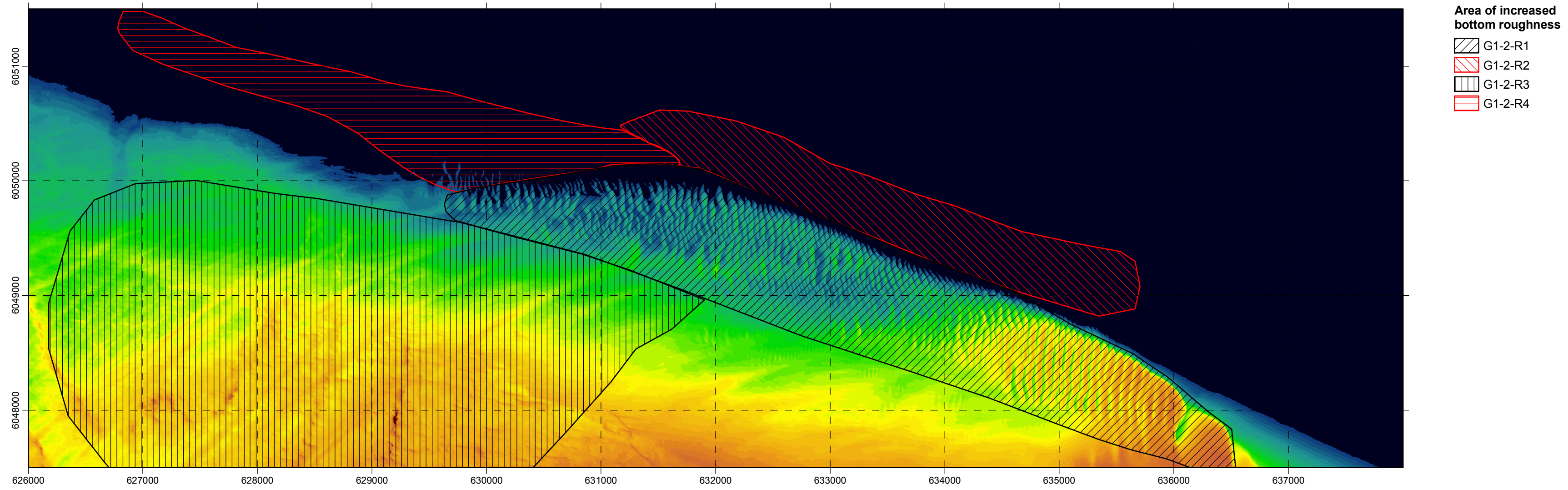


Fig. 2A: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.

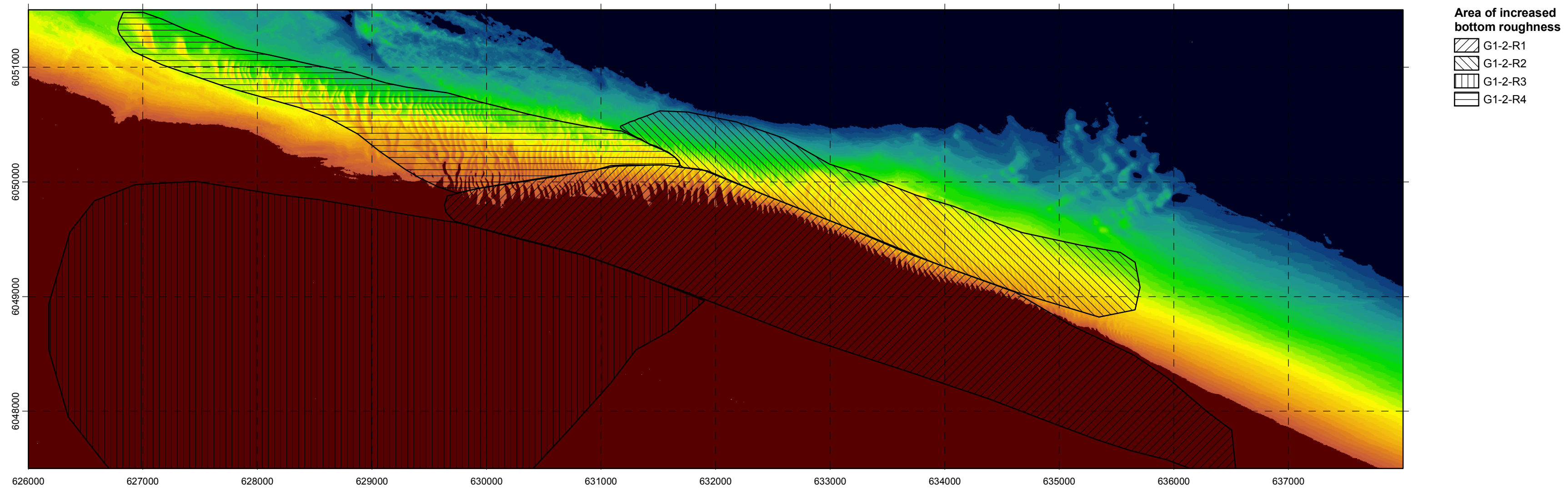
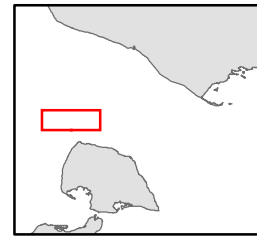


Fig. 2B: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.



Area G1-2: Detailed characteristics of the seabed - 3/3

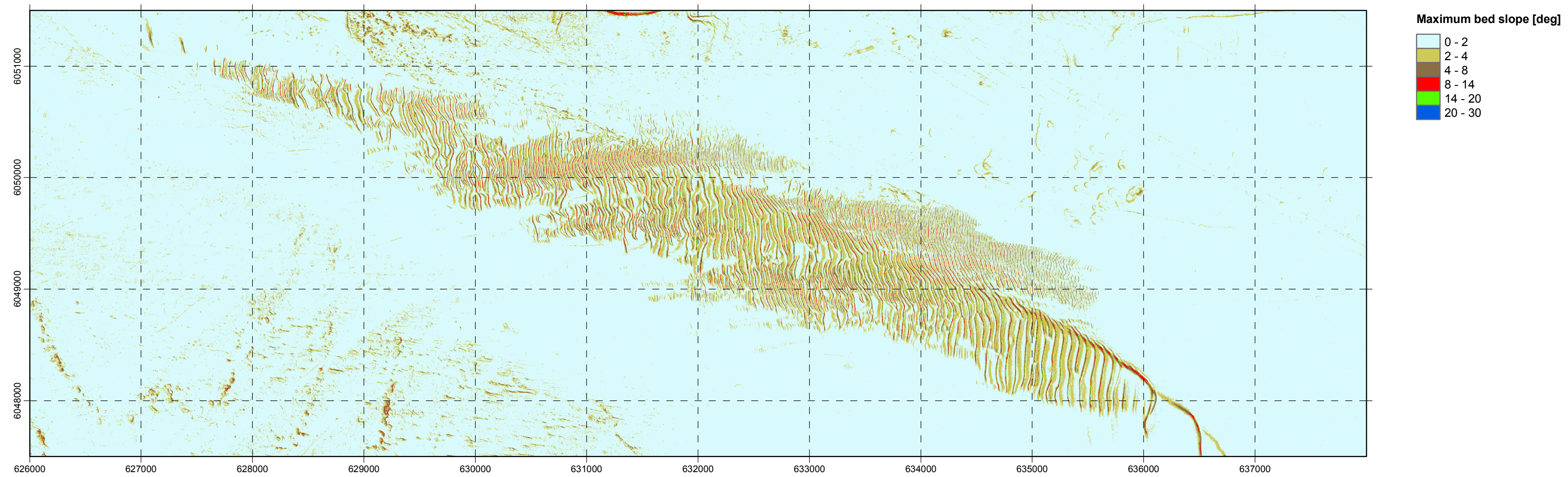


Fig 3: Maximum bed slope

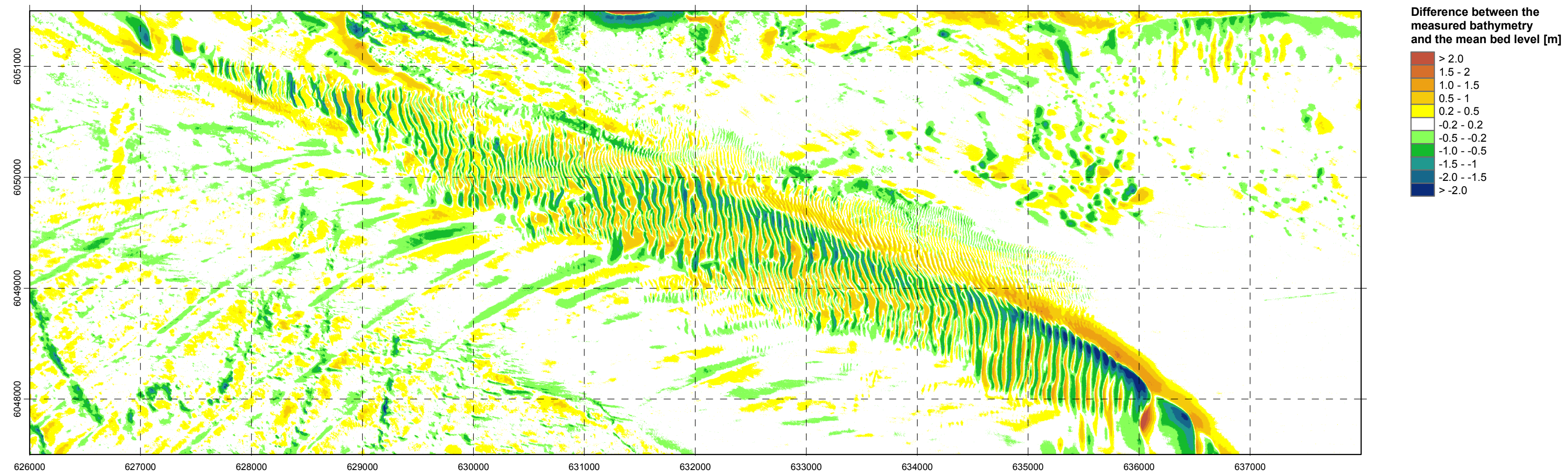
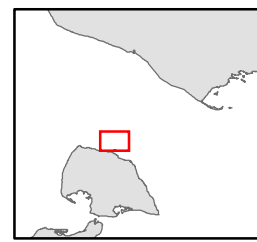


Fig. 4: Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m.



Area G3: Detailed characteristics of the seabed

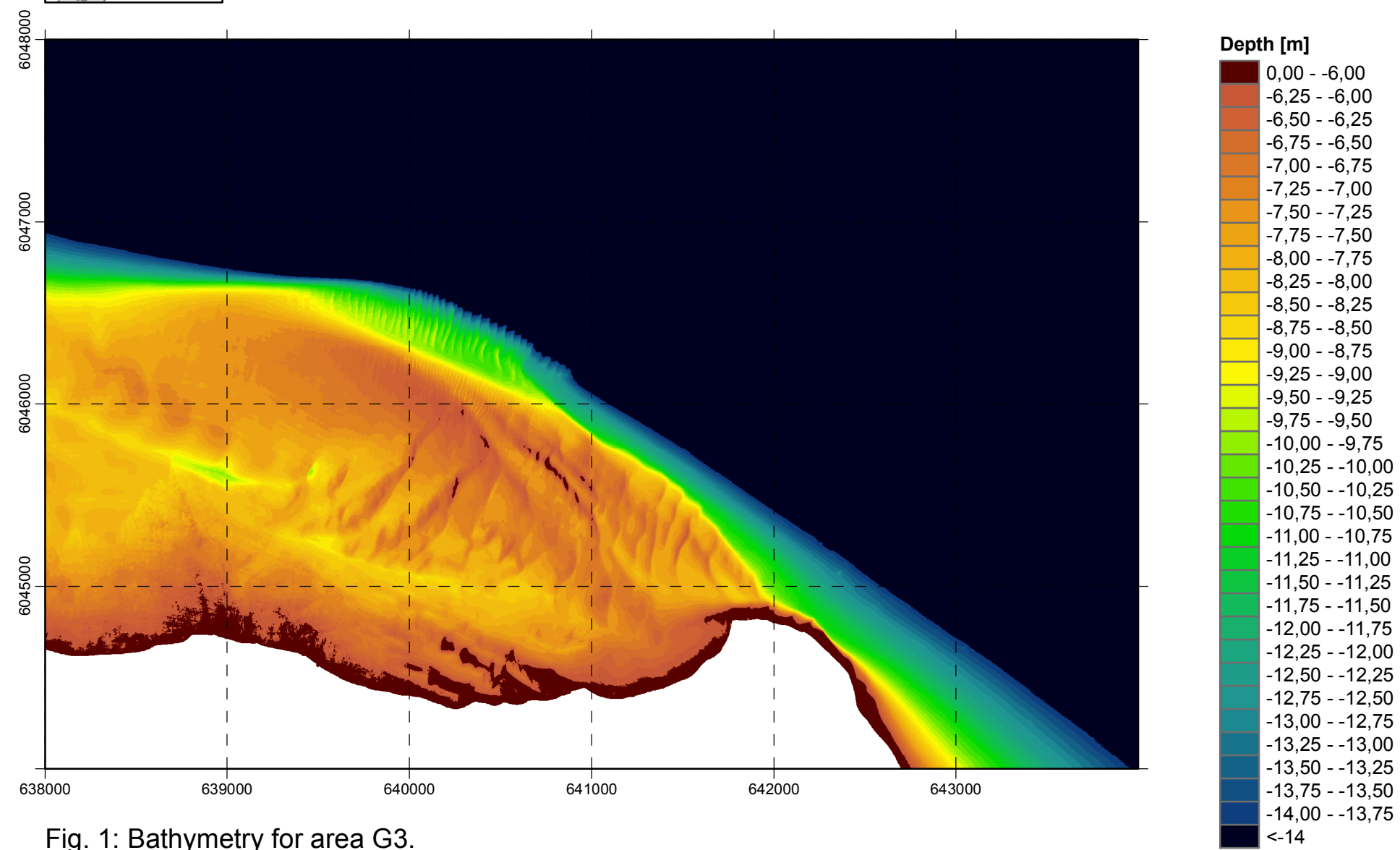


Fig. 1: Bathymetry for area G3.

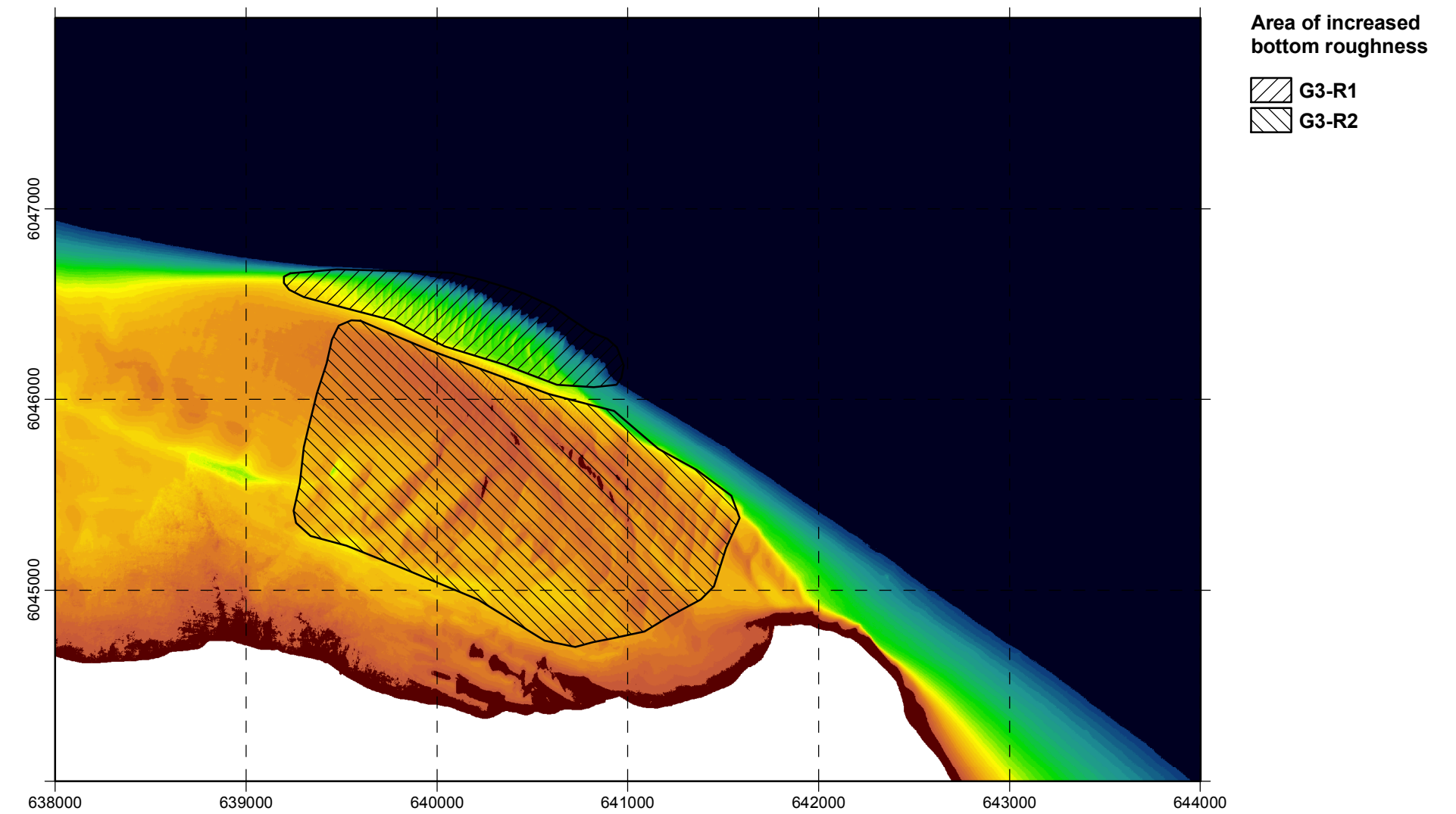


Fig. 2: Area of increased bottom roughness. The cross hatched area indicates where the flow resistance is influenced by bed form properties.

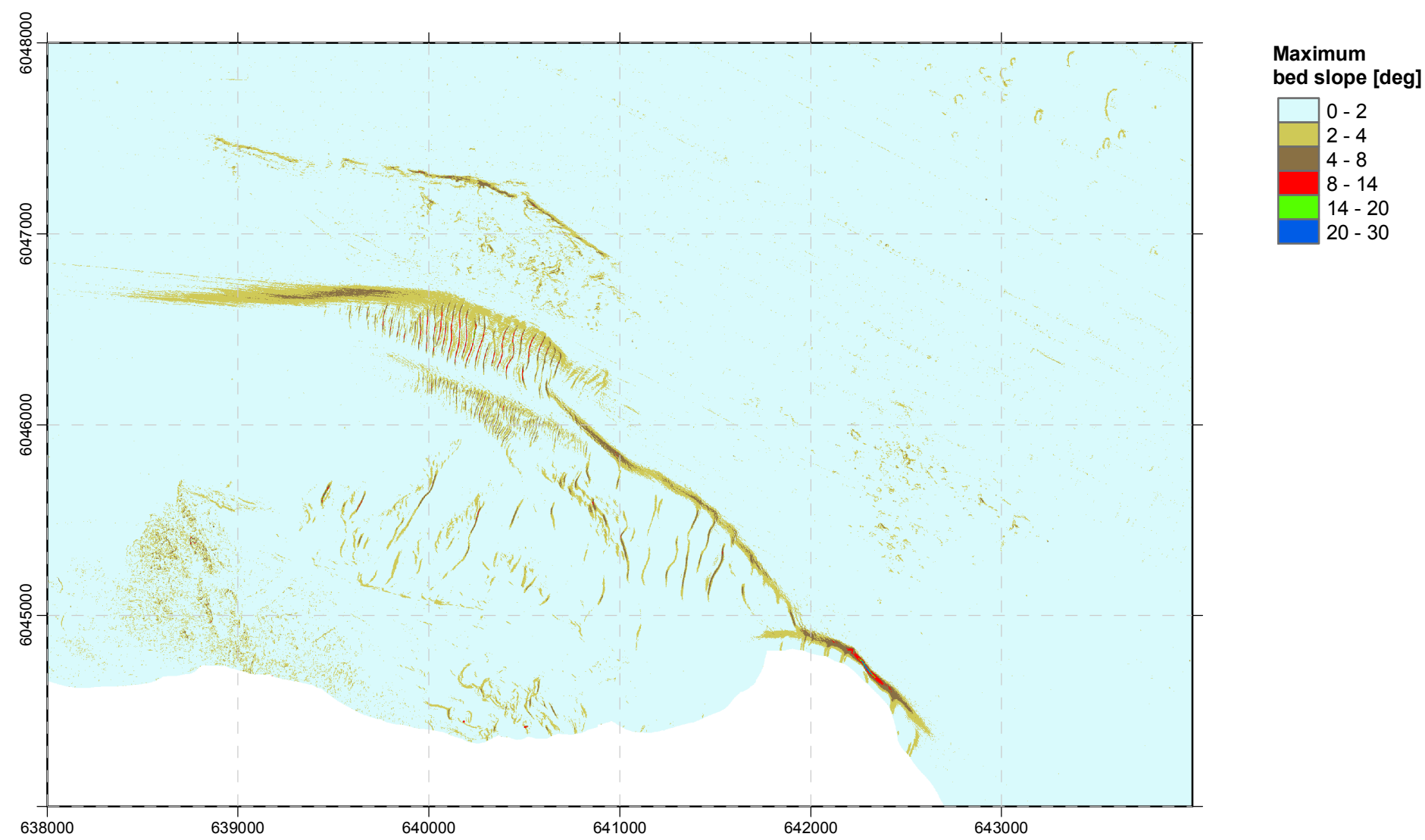


Fig. 3: Maximum bed slope.

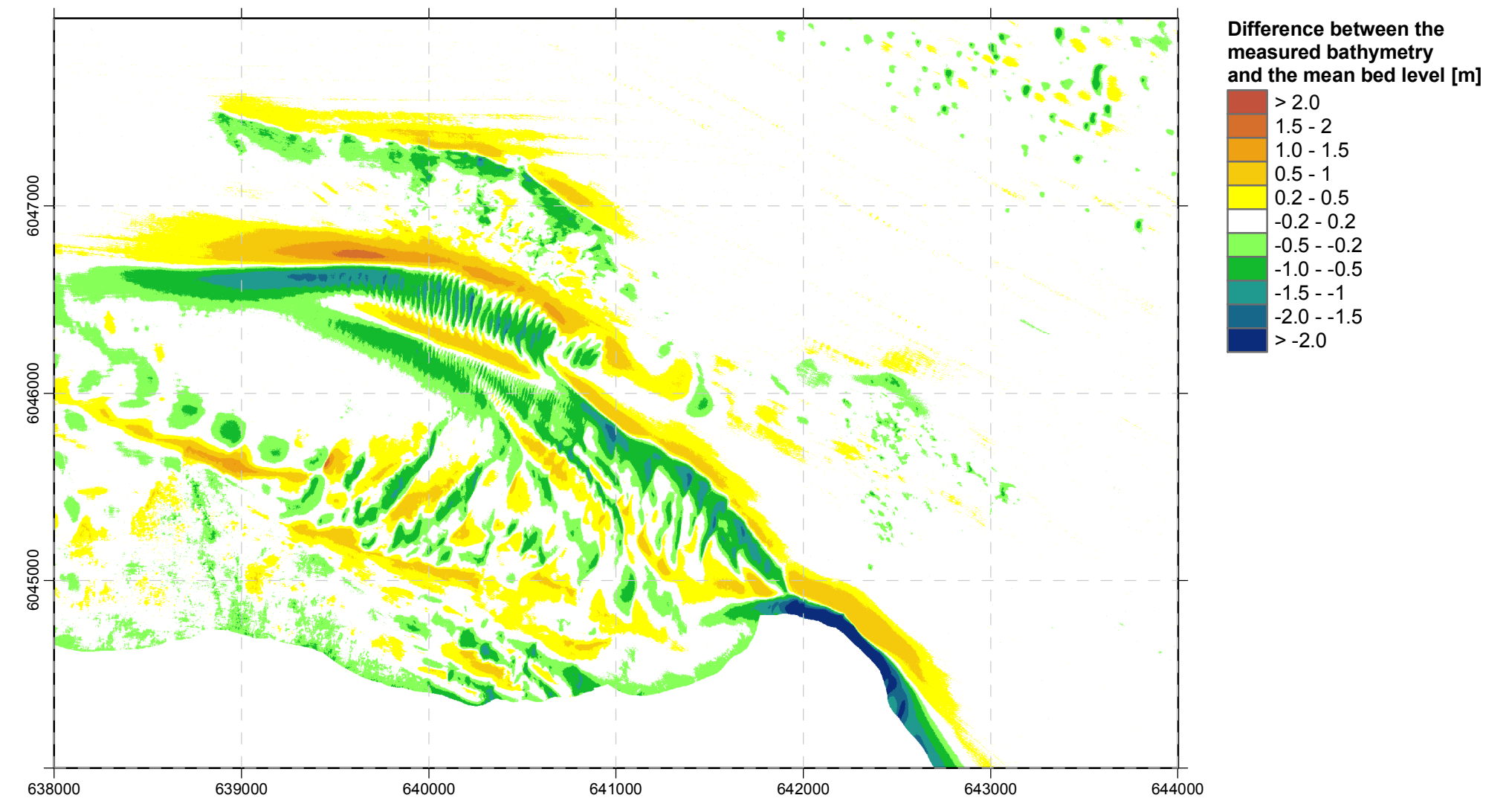
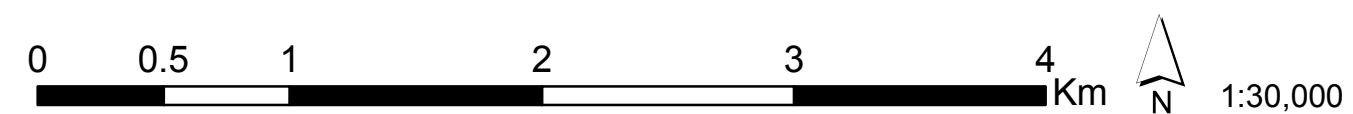
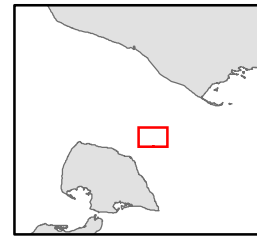


Fig. 4: Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m.





Area G4: Detailed characteristics of the seabed

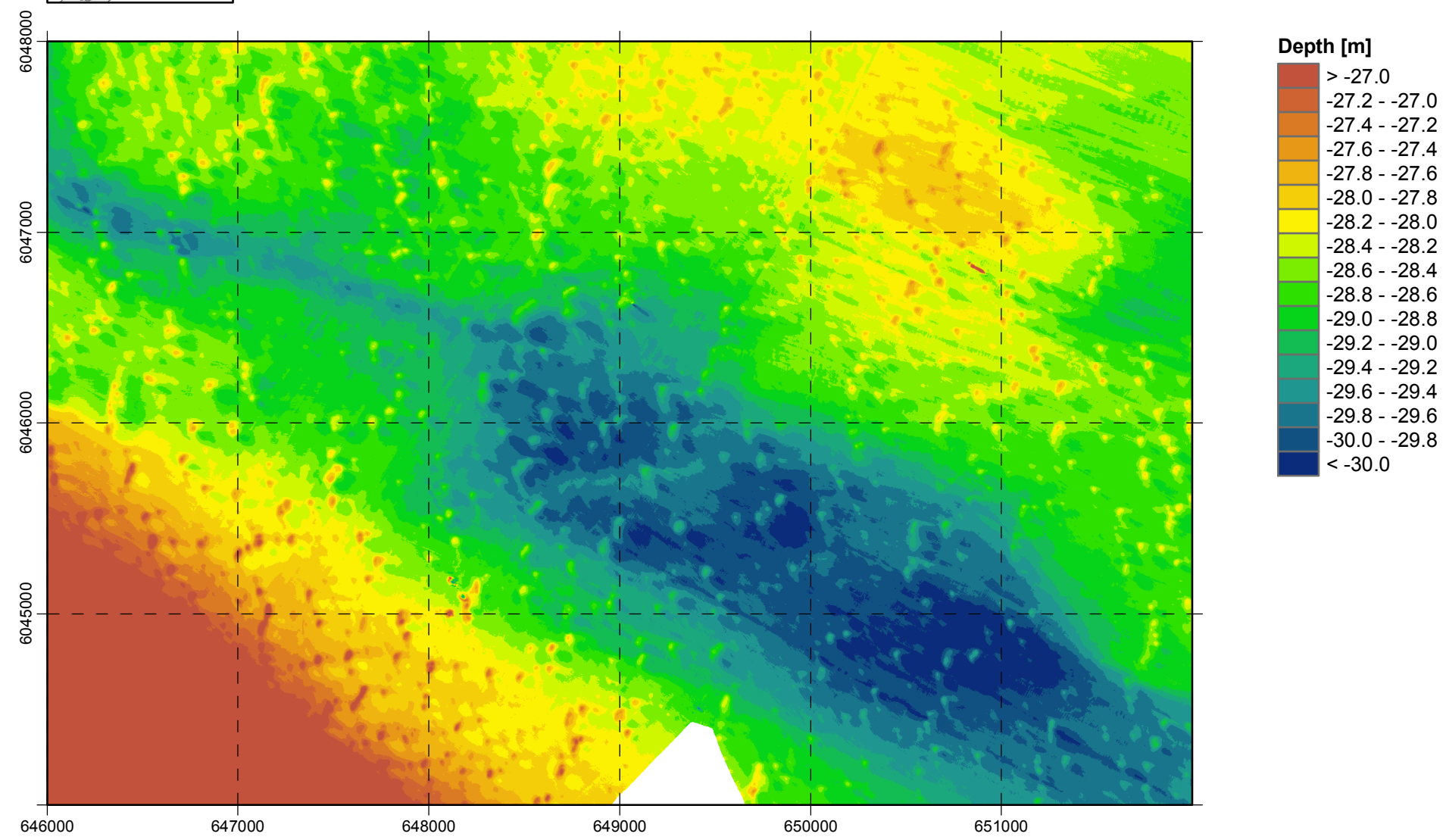


Fig. 1: Bathymetry for area G3.

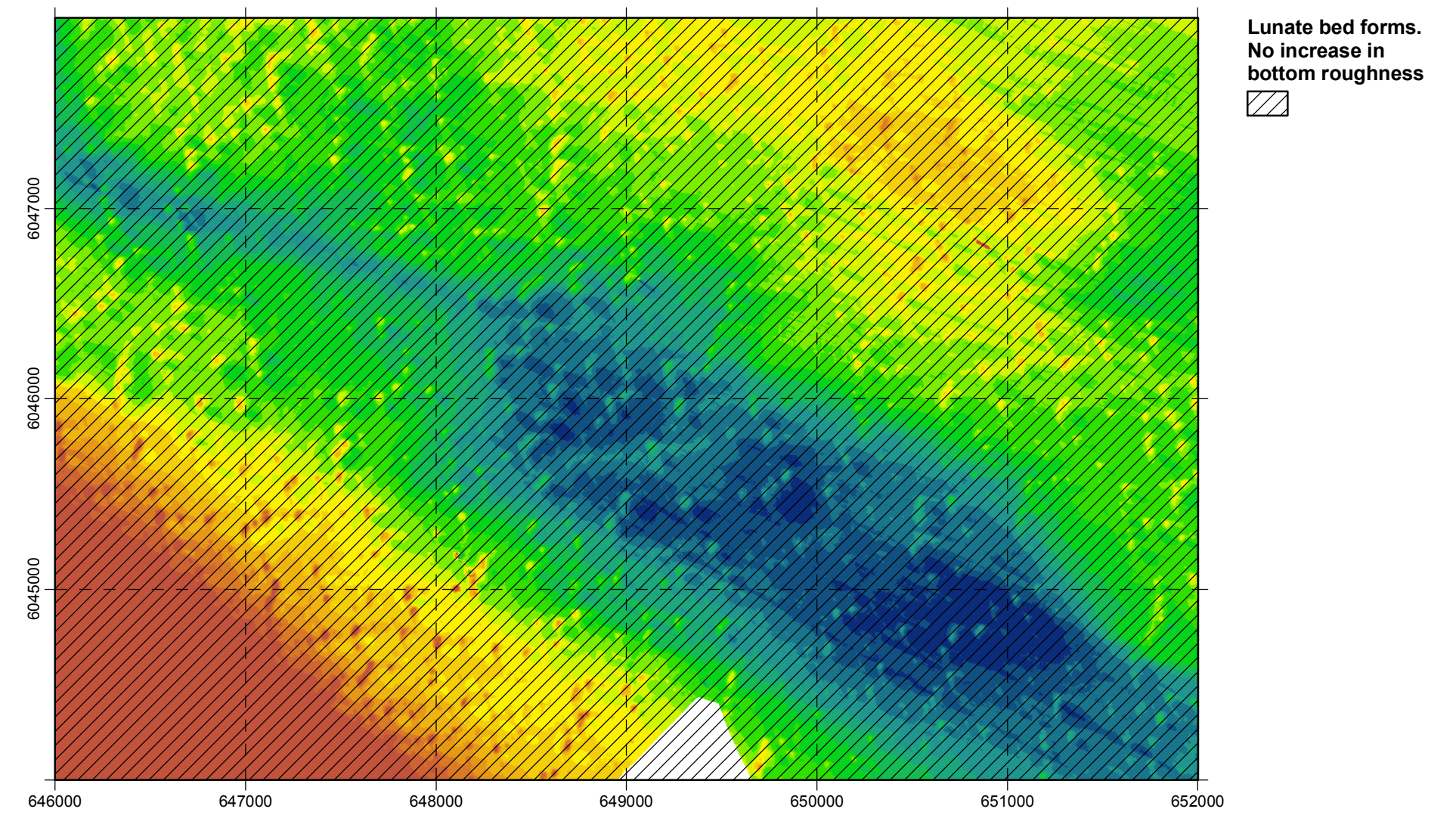


Fig. 2: Area of lunate bed forms. No increase in bottom roughness.

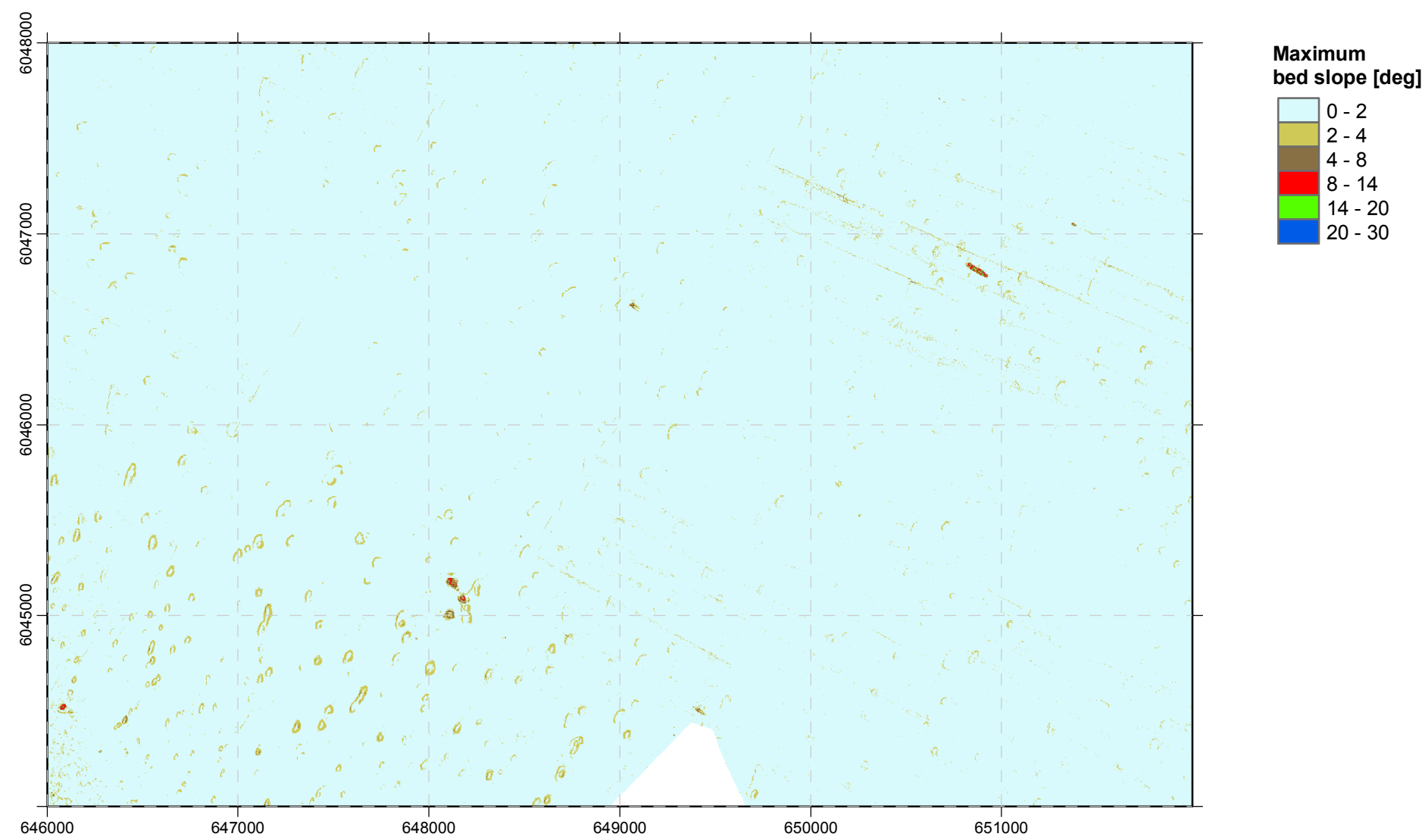


Fig. 3: Maximum bed slope.

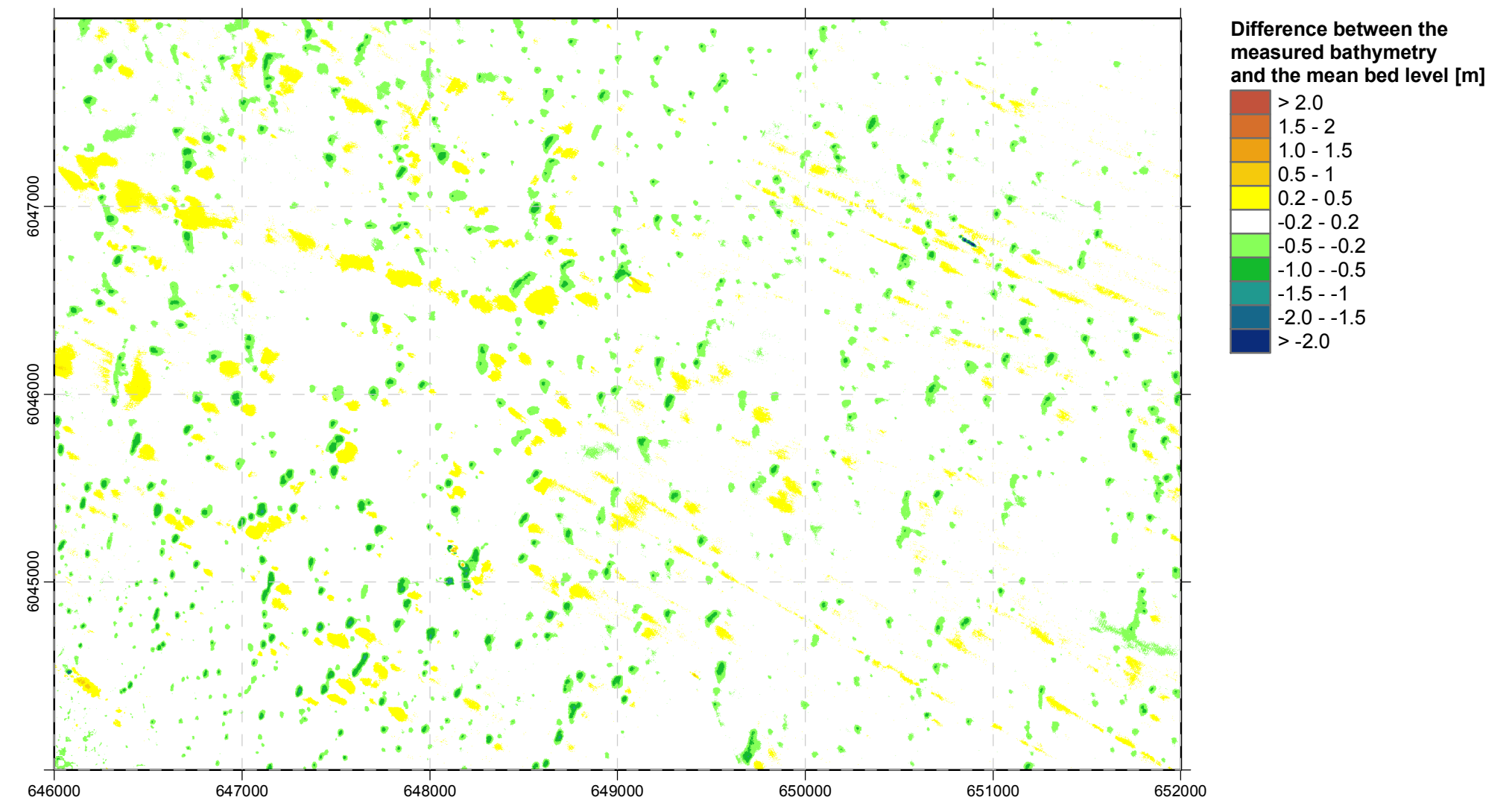


Fig. 4: Difference between the measured bathymetry and the mean bed level. The mean bed level is defined as the average bathymetry within a radius of 200 m.

