Final Report
FEHMARNBELT FIXED LINK
HYDROGRAPHIC SERVICES (FEHY)
Marine Soil - Baseline
Sea Bed Morphology of the Fehmarnbelt Area
E1TR0056 - Volume I
APPENDIX A
Contents

Map I: Areas of bed forms. Detailed plots for areas D1-4 and G1-4 are supplied in maps XI-XIX.
Map II: Bathymetry – Depths 0-32 m.
Map III: Bathymetry – Depths 0-8 m.
Map IV: Bathymetry – Depths 6-14 m.
Map V: Bathymetry – Depths 12-20 m.
Map VI: Bathymetry – Depths 18-26 m.
Map VII: Bathymetry – Depths 24-32 m.
Map VIII: Maximum bed slope.
Map IX: 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.
Map X: 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.
Map XI: Area D1: Detailed characteristics of the seabed.
Map XII: Area D2: Detailed characteristics of the seabed.
Map XIII: Area D3: Detailed characteristics of the seabed.
Map XIV: Area D4: Detailed characteristics of the seabed.
Map XV: Area G1-2: Detailed characteristics of the seabed - 1/3.
Map XVI: Area G1-2: Detailed characteristics of the seabed - 2/3.
Map XVII: Area G1-2: Detailed characteristics of the seabed - 3/3.
Map XVIII: Area G3: Detailed characteristics of the seabed.
Map XIX: Area G4: Detailed characteristics of the seabed.

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 0-8 m

Depth [m]
-1.00
-1.25 to -1.00
-1.50 to -1.25
-1.75 to -1.50
-2.00 to -1.75
-2.25 to -2.00
-2.50 to -2.25
-2.75 to -2.50
-3.00 to -2.75
-3.25 to -3.00
-3.50 to -3.25
-3.75 to -3.50
-4.00 to -3.75
-4.25 to -4.00
-4.50 to -4.25
-4.75 to -4.50
-5.00 to -4.75
-5.25 to -5.00
-5.50 to -5.25
-5.75 to -5.50
-6.00 to -5.75
-6.25 to -6.00
-6.50 to -6.25
-6.75 to -6.50
-7.00 to -6.75
-7.25 to -7.00
-7.50 to -7.25
-7.75 to -7.50
-8.00 to -7.75
-8.00
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.