



Sedimentinventar und Hydromorphologie der Schlei

LLUR Symposium 2018

David Höft¹, Klaus Schwarzer¹, Klaus Ricklefs², Christoph Heinrich³,
Hans-Christian Reimers³

¹ Institut für Geowissenschaften, AG Küstengeologie und Sedimentologie, Christian-Albrechts-Universität zu Kiel

² Forschungs- und Technologiezentrum Westküste, AG Küstengeowissenschaften, Christian-Albrechts-Universität zu Kiel

³ Landesamt für Landwirtschaft, Umwelt und ländliche Räume Schleswig-Holstein

540000

550000

560000

6060000

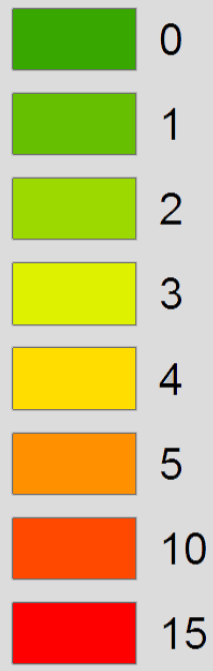
6050000

6040000

ETRS89, UTM Z32N



Tiefenklasse [m]



Schleswig

Ulsnis

Lindaunis

Kappeln

Maasholm

Arnis

Missunde



© geoseaportal.de

Ziele

- Flächendeckende Kartierung der Sedimente in der Schlei
 - Inkl. Sedimentmächtigkeiten
 - Identifikation von FFH Lebensräumen

Grund

- Anhaltend schlechter ökologischer Zustand der Schlei
- Mangelnde Kenntnis über den geologisch/sedimentologischen Aufbau des Meeresbodens der Schlei

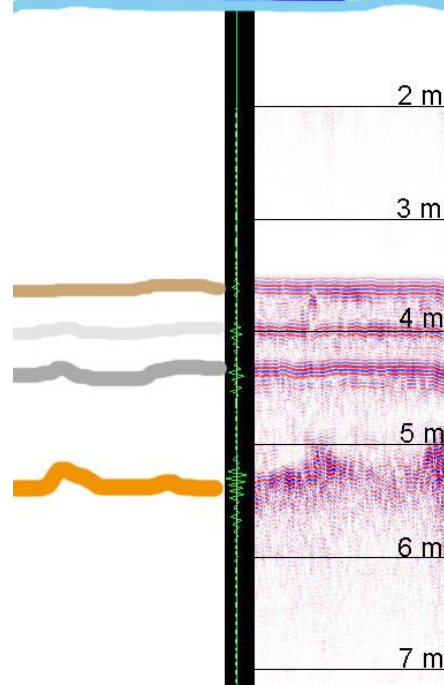
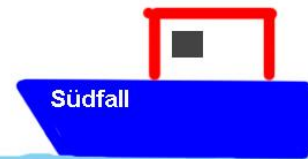
Van-Veen
Backengreifer



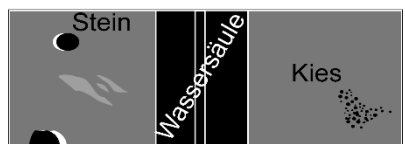
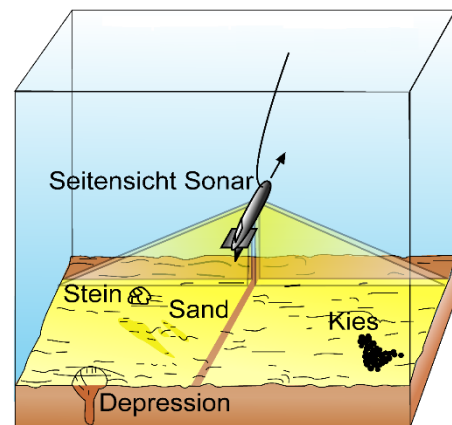
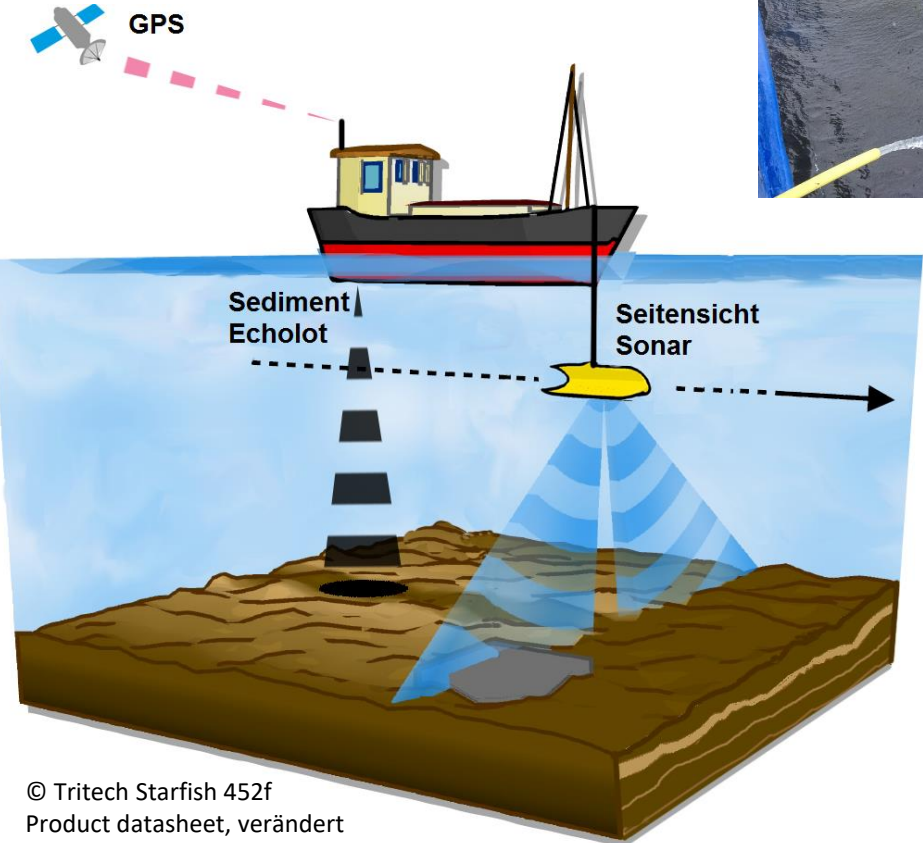
© Ricklefs

Methoden

Rumohrloot

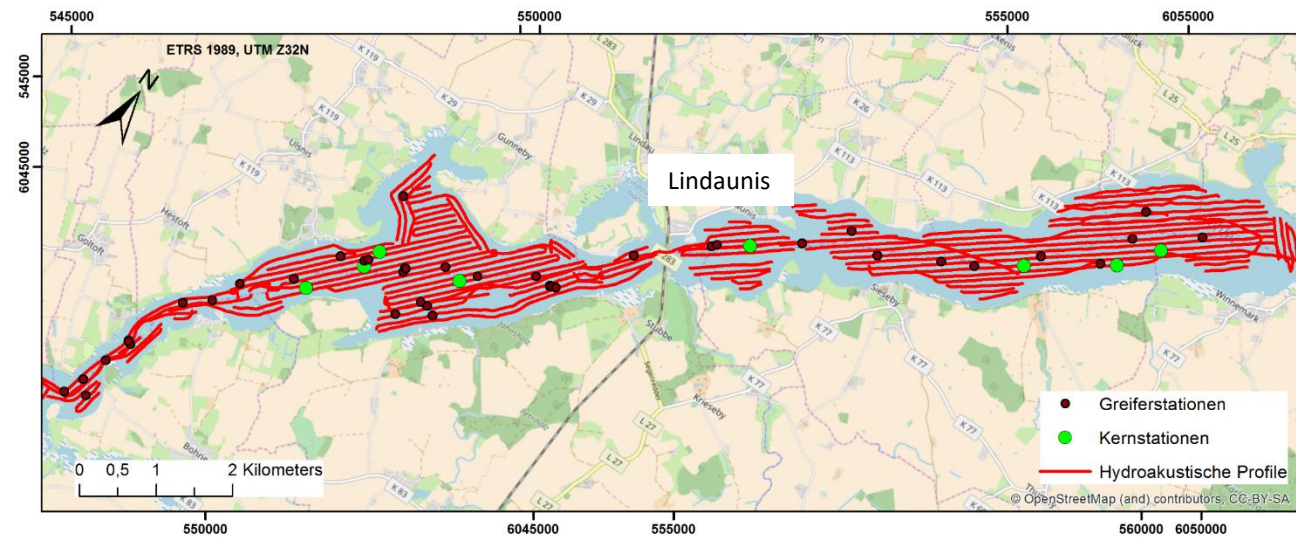
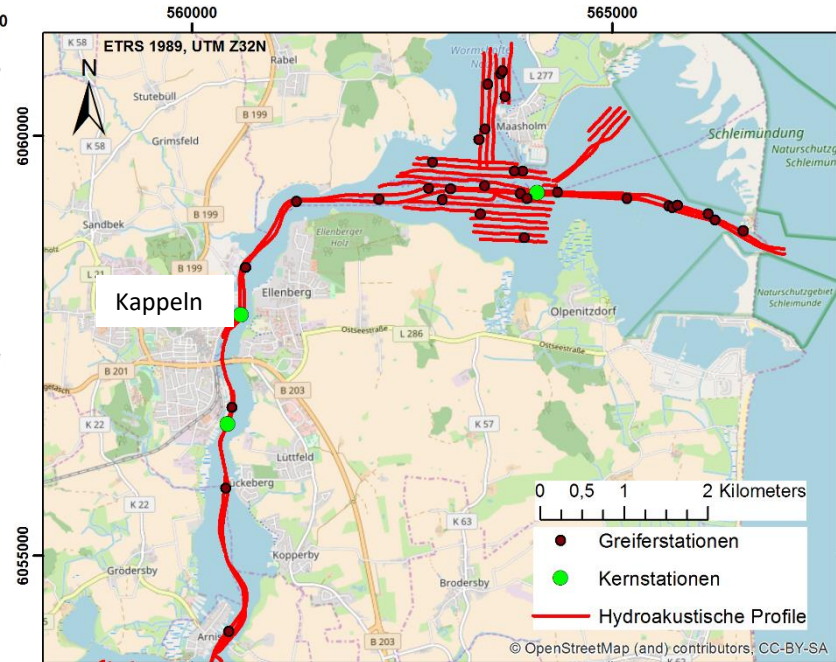
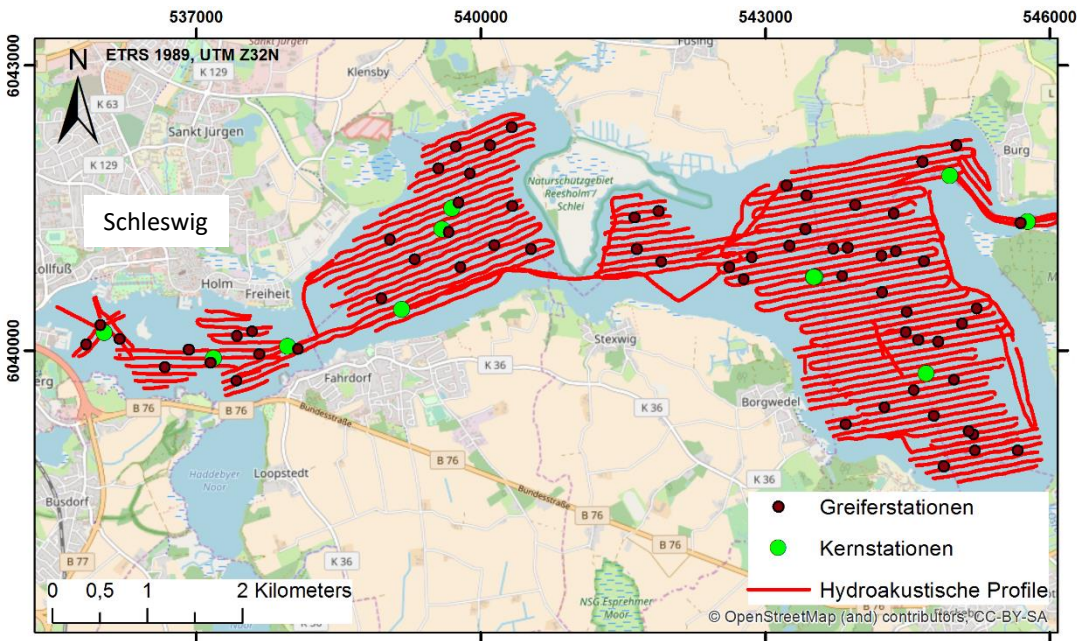


GPS



© USGS Woods Hole science Center
[Public domain], via Wikimedia
Commons

Durchgeführte Arbeiten



398 km Profillänge
30 km² Sidescan-Kartierung
166 Greiferproben
24 Rumohrloch Kerne

Messzeitraum
14.03.-07.04.2017 &
25.04.-27.04.2017

540000

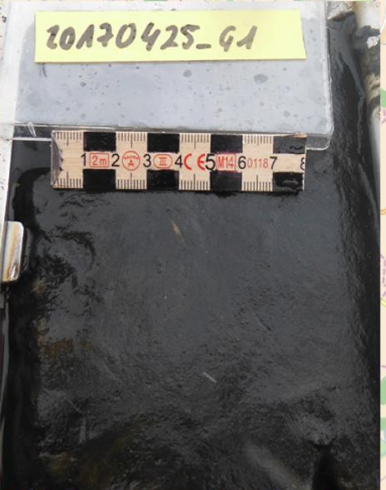
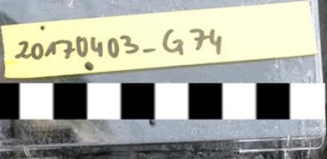
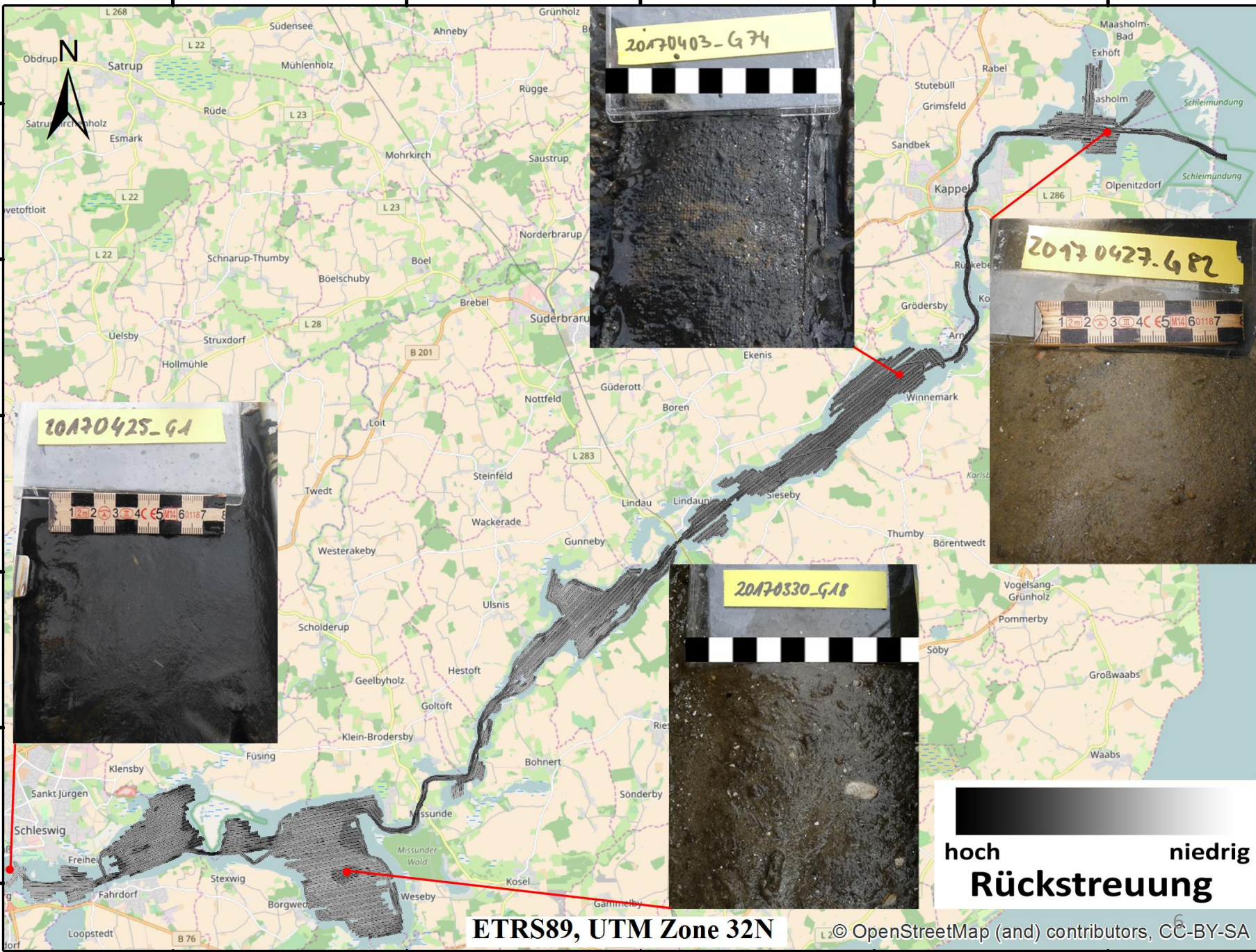
546000

552000

558000

564000

6060000
6056000
6052000
6048000
6044000
6040000



hoch niedrig
Rückstreuung

ETRS89, UTM Zone 32N

© OpenStreetMap (and) contributors, CC-BY-SA

540000

545000

550000



6050000

Lindaunis

Nicht kartierte Fläche

Oberflächensedimente nach Folk (1954)

- Sand 90% > 63 µm
- Muddy Sand 50% > 63 µm
- Mud/Sandy Mud 50% < 63 µm

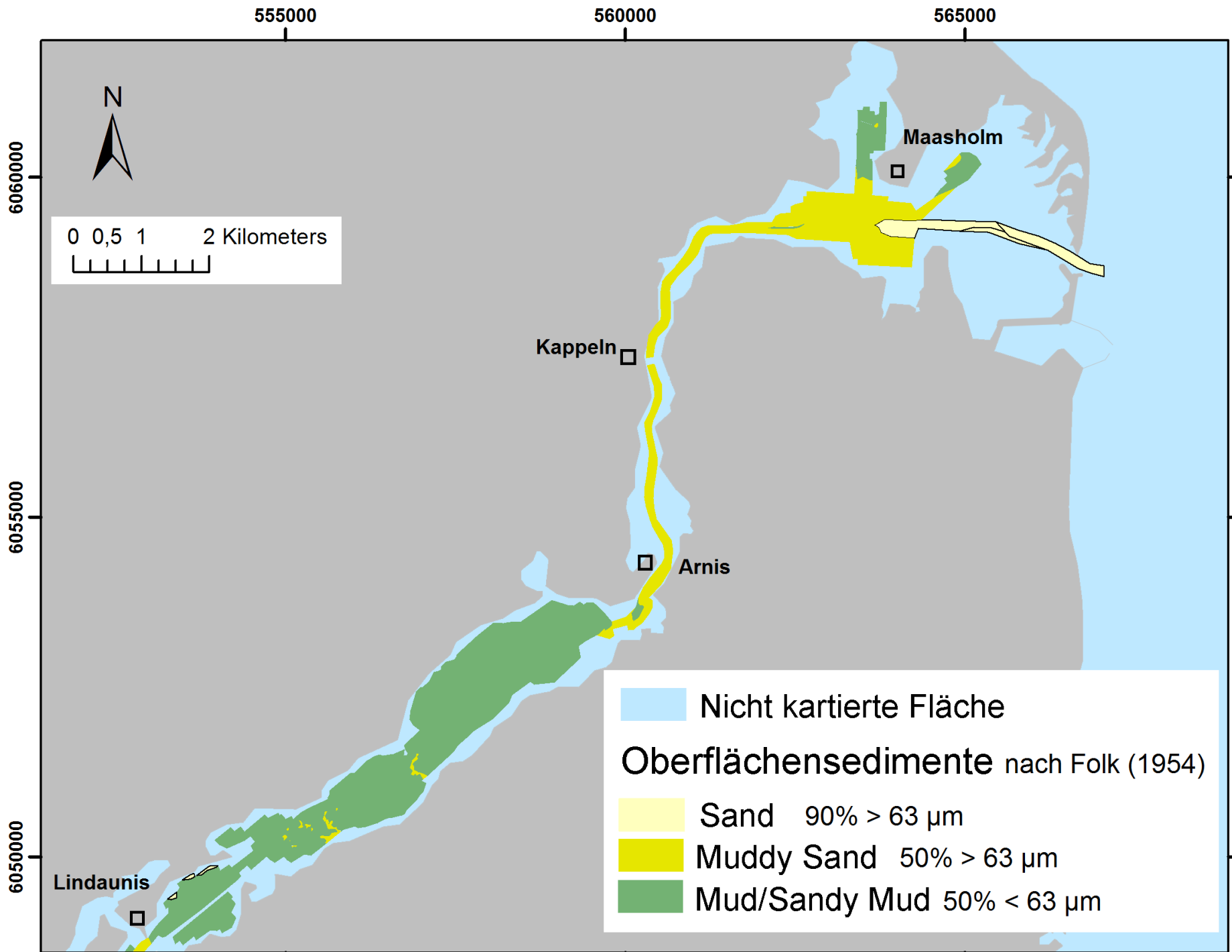
6045000

Schleswig

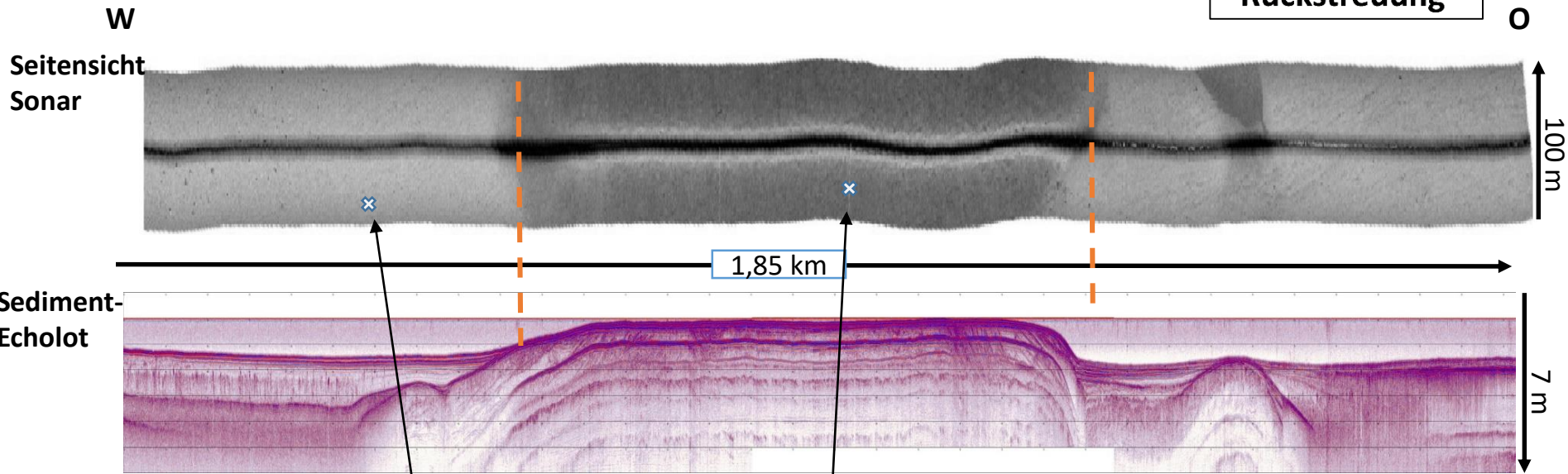
Missunde

6040000

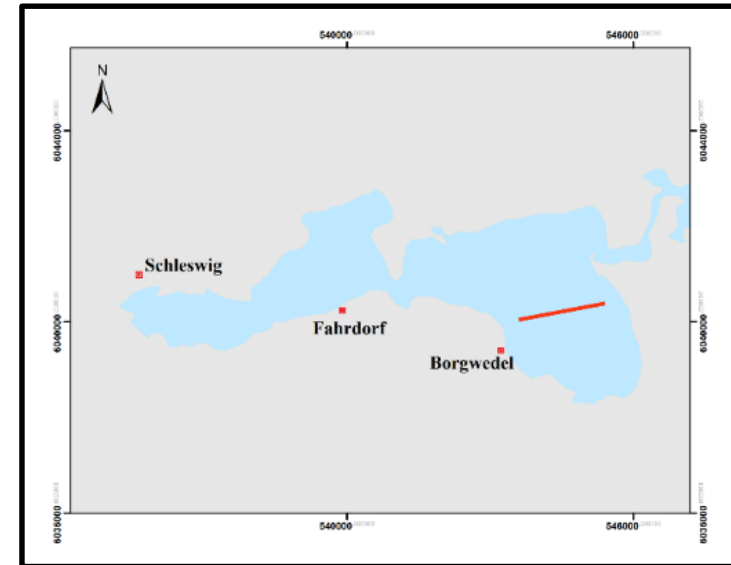
0 0,5 1 2 Kilometers

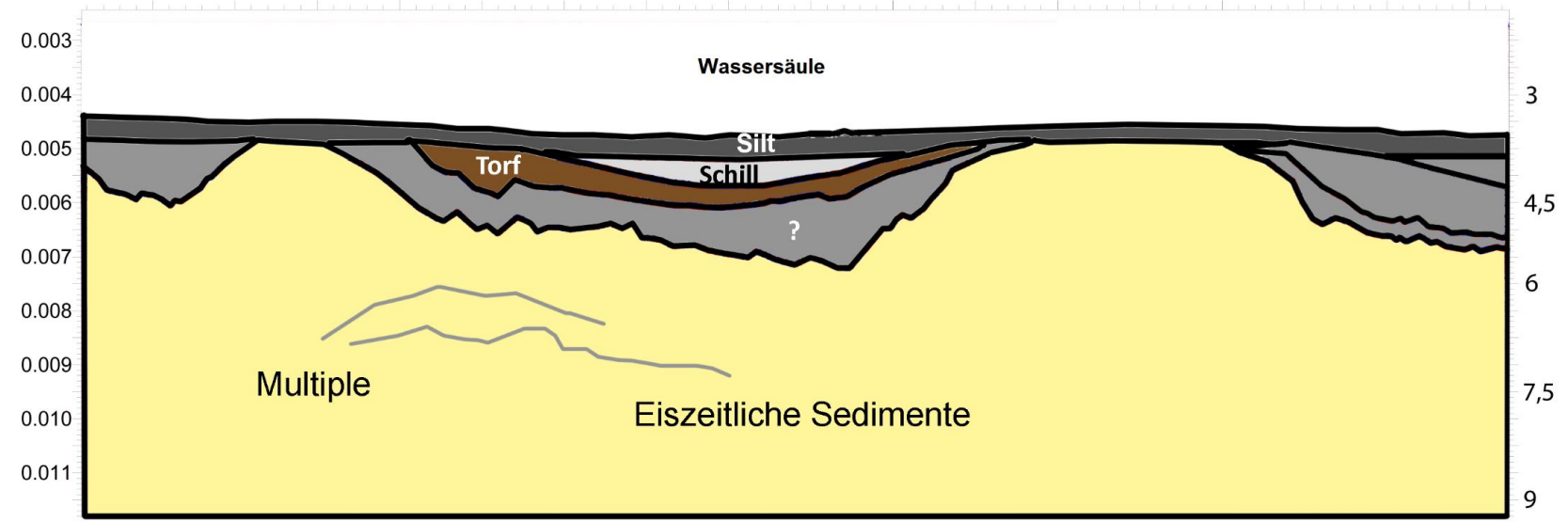
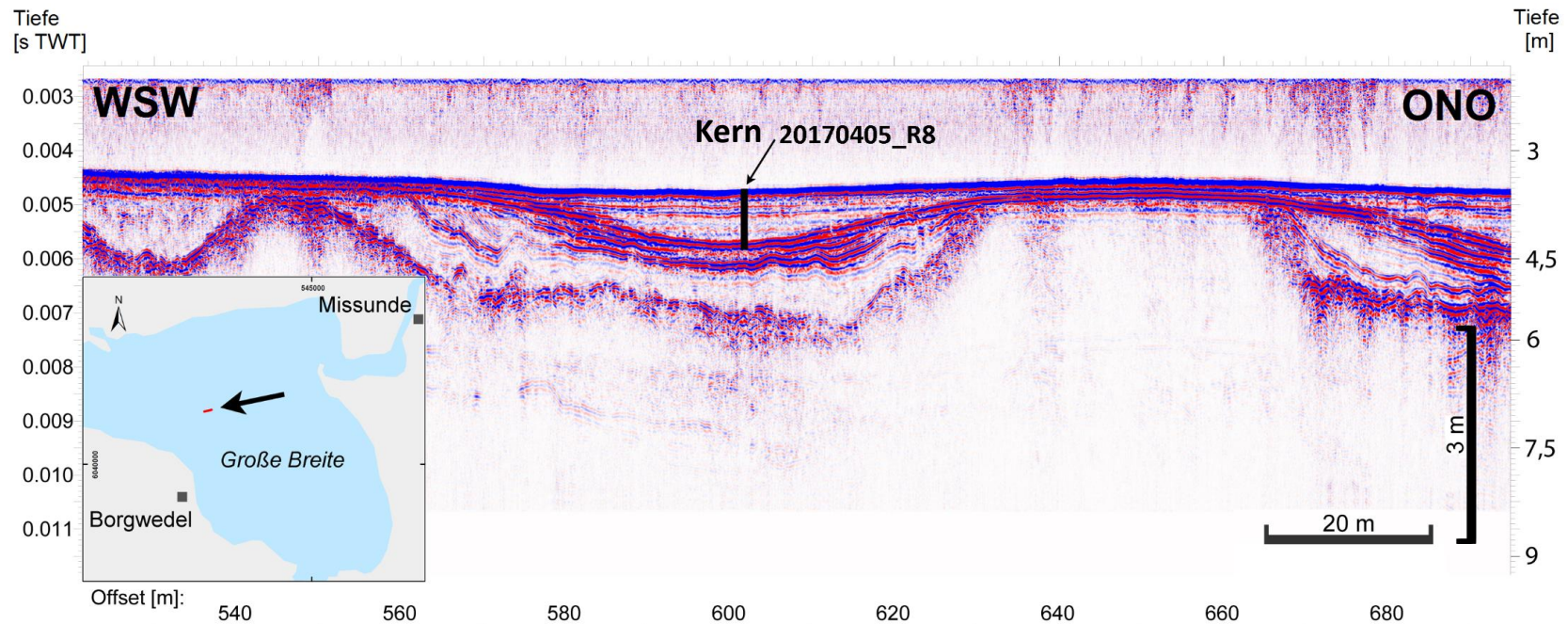
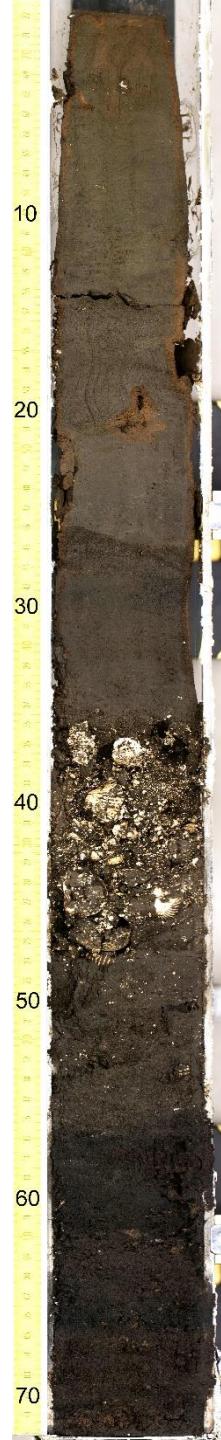


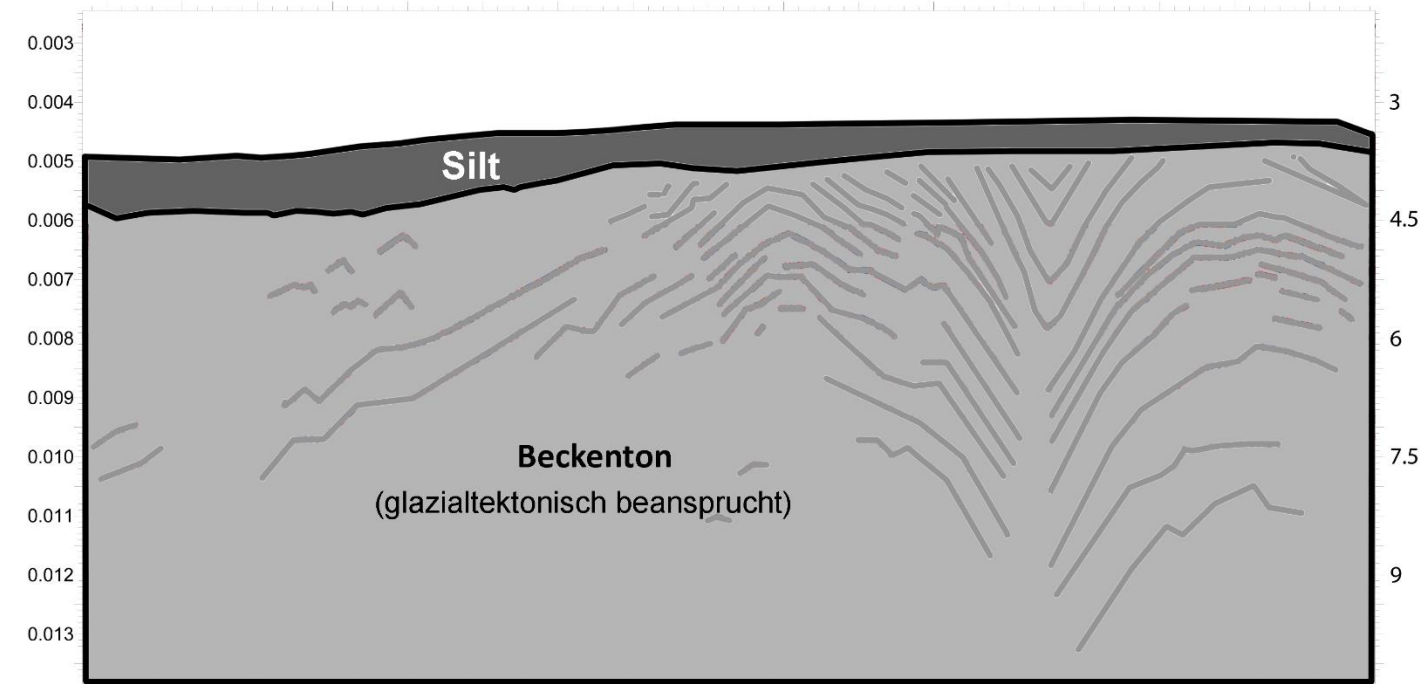
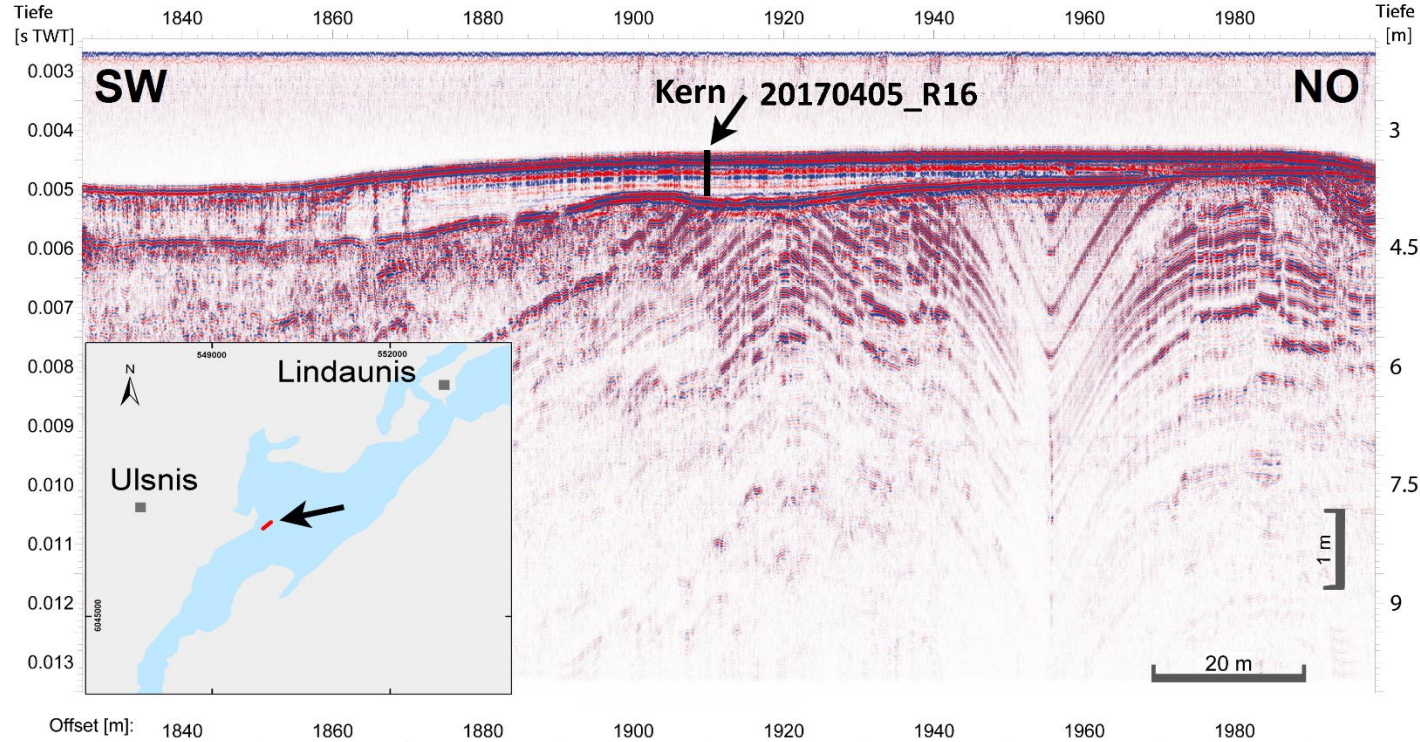
Arbeiten auf der Schlei

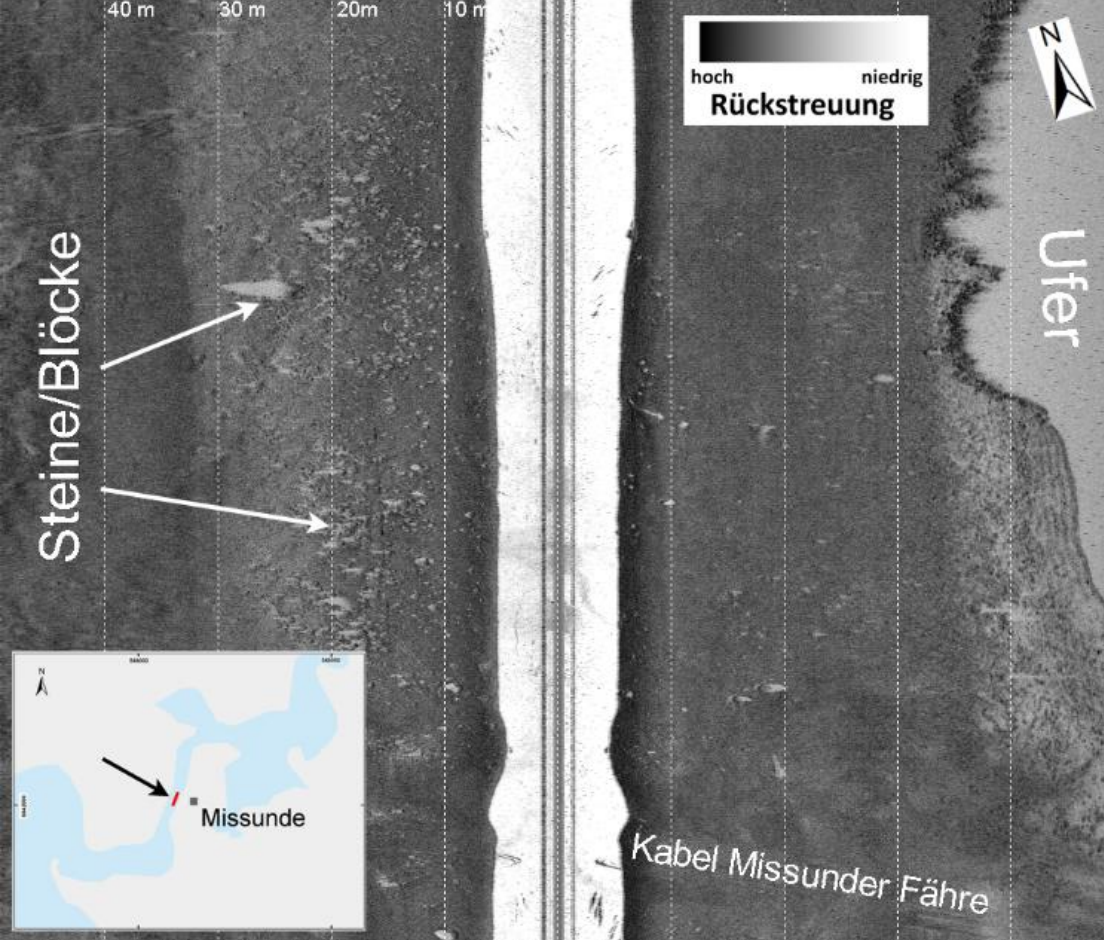


Backen-
greifer



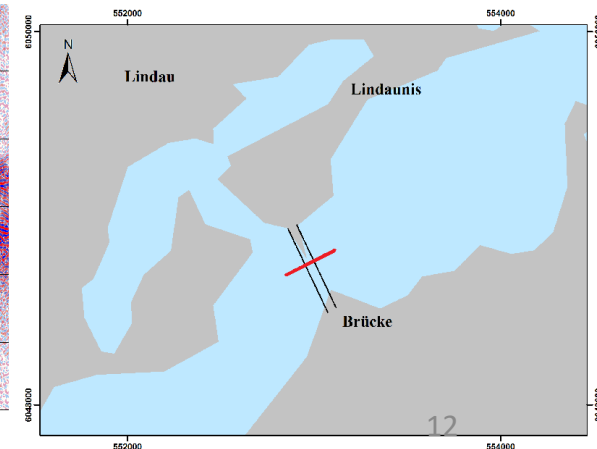
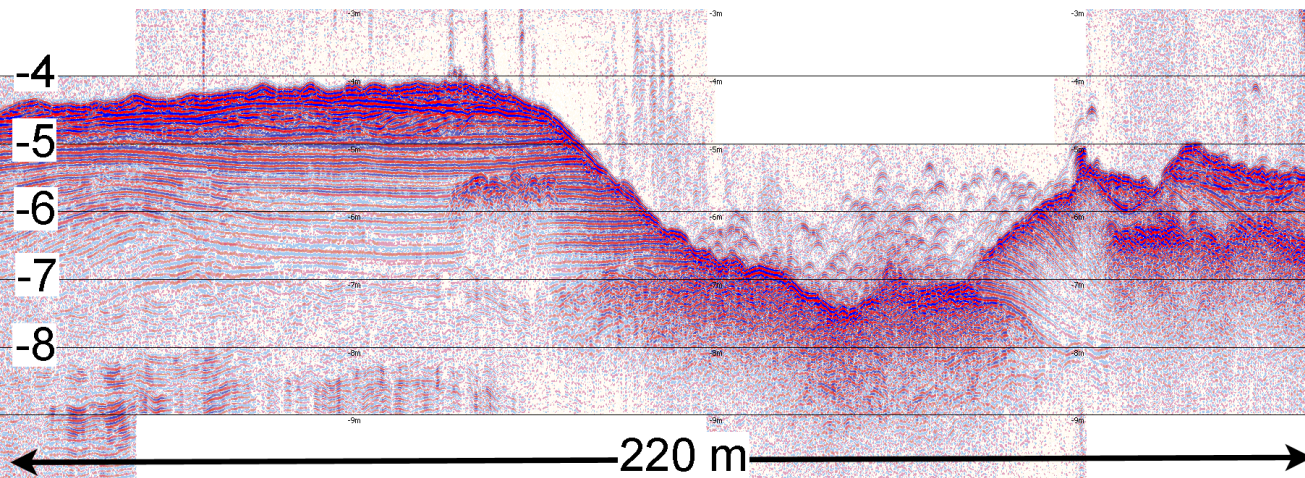


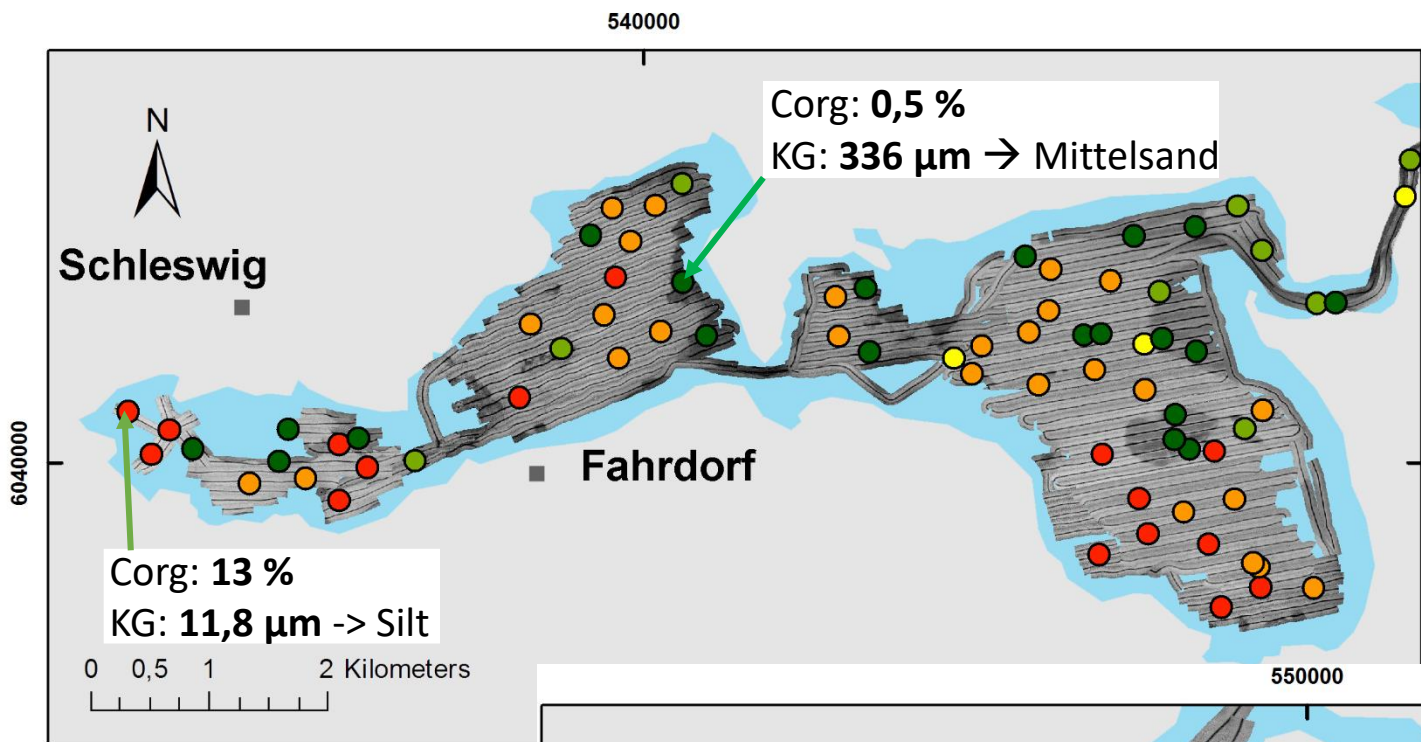




Eiszeitliche Sedimente (Geschiebemergel) in der Missunder Enge (Nidermeyer et al., 2011/Jäde, 1995)

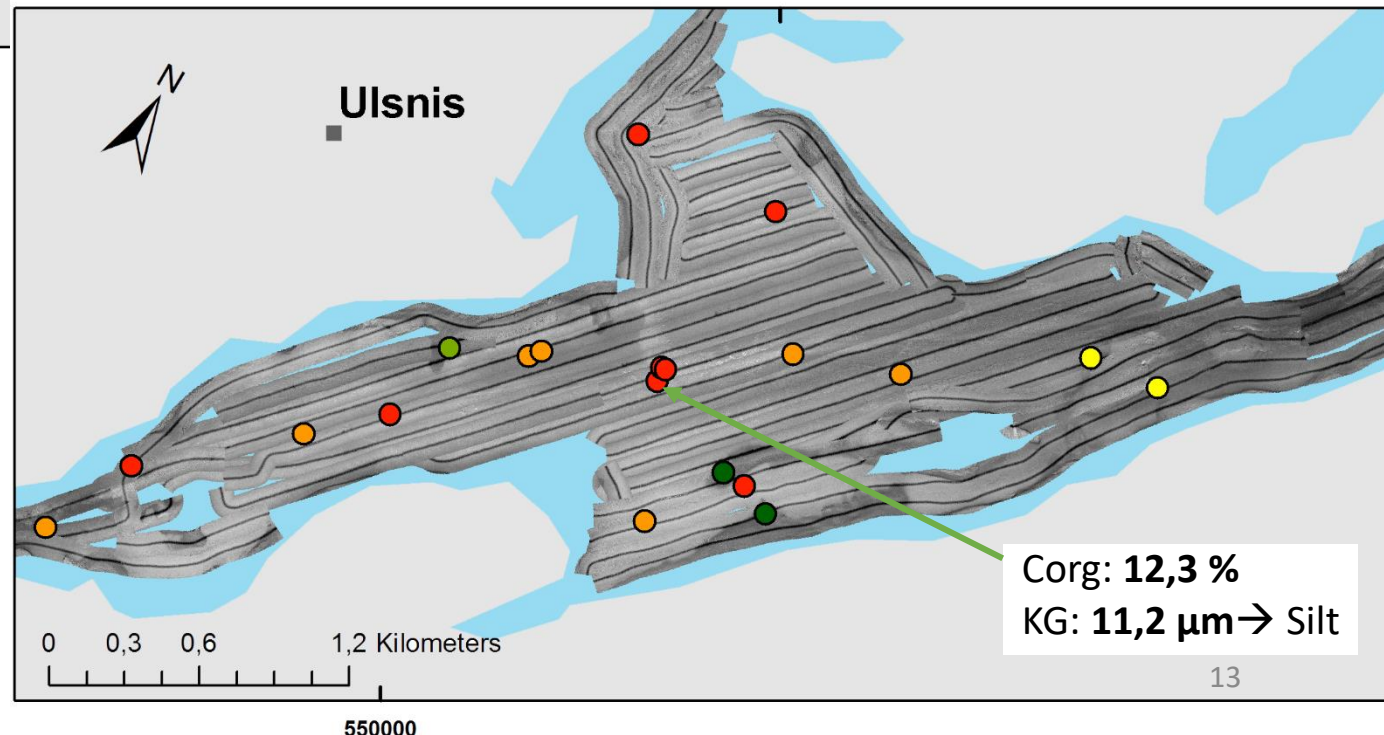
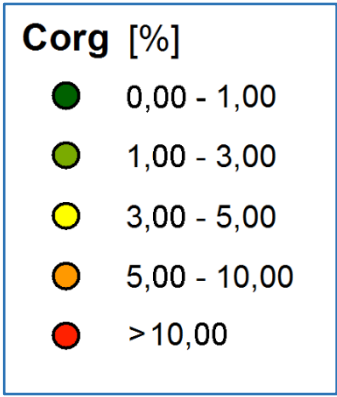
Sande an der Brücke von Lindaunis (Jäde, 1995).



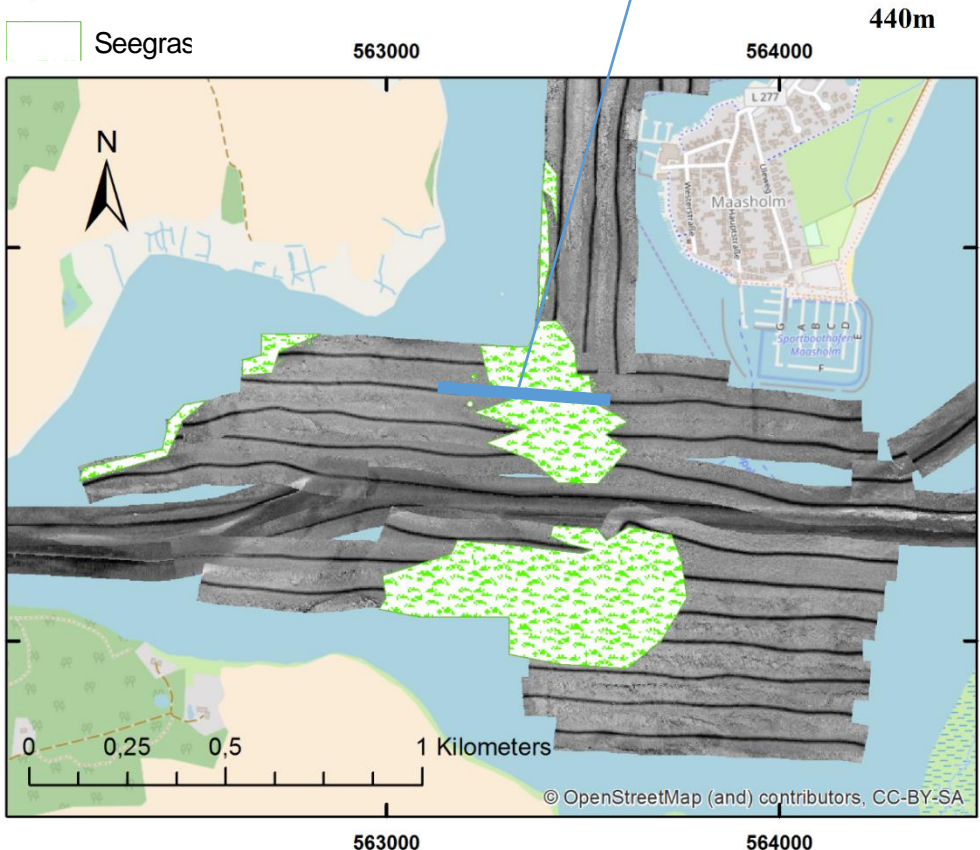
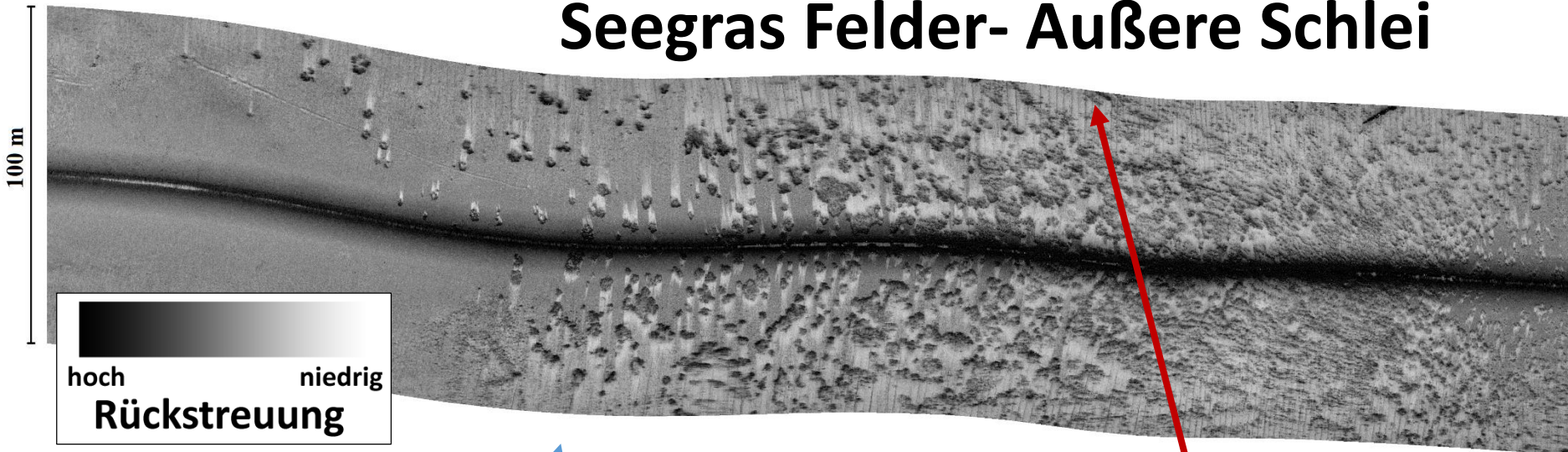


Organischer Kohlenstoffgehalt (Corg) und Median der Korngröße (KG) der Greiferproben

Vergleich
Seibold et al. (1971)
„Marine Geology of Kiel Bay“
Mud (weniger als 20 % >40 µm): 3-5 % Corg



Seegras Felder- Äußere Schleie



Vielen Dank für die Aufmerksamkeit

