

Appendix D CPT plots per geotechnical unit including properties from laboratory testing

D.1 Over-consolidation ratio

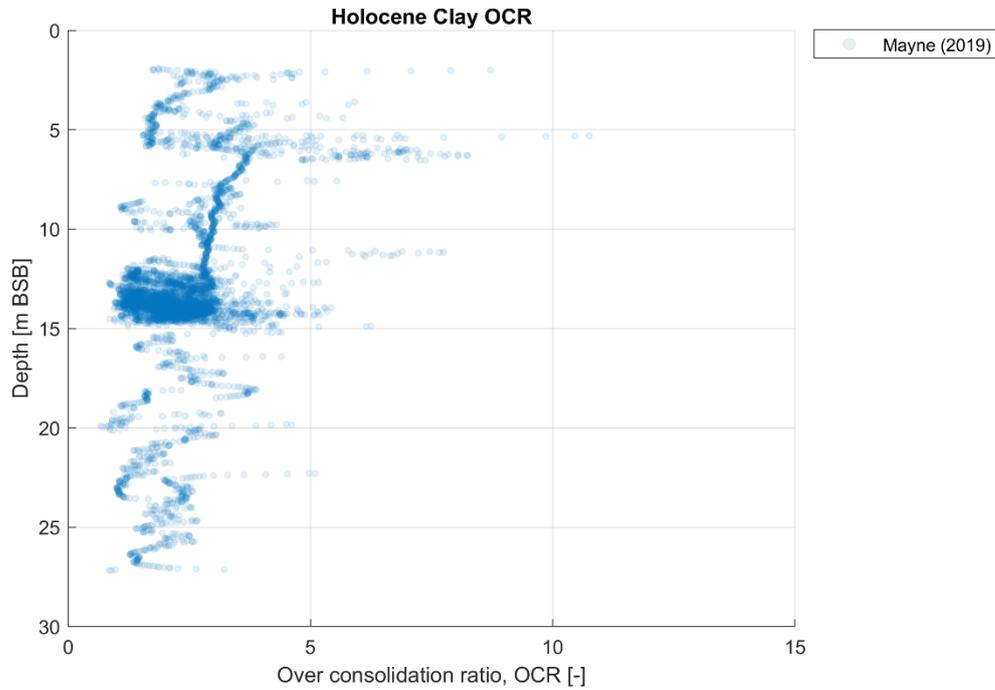


Figure D-1 Range of OCR for geotechnical unit Holocene clay.

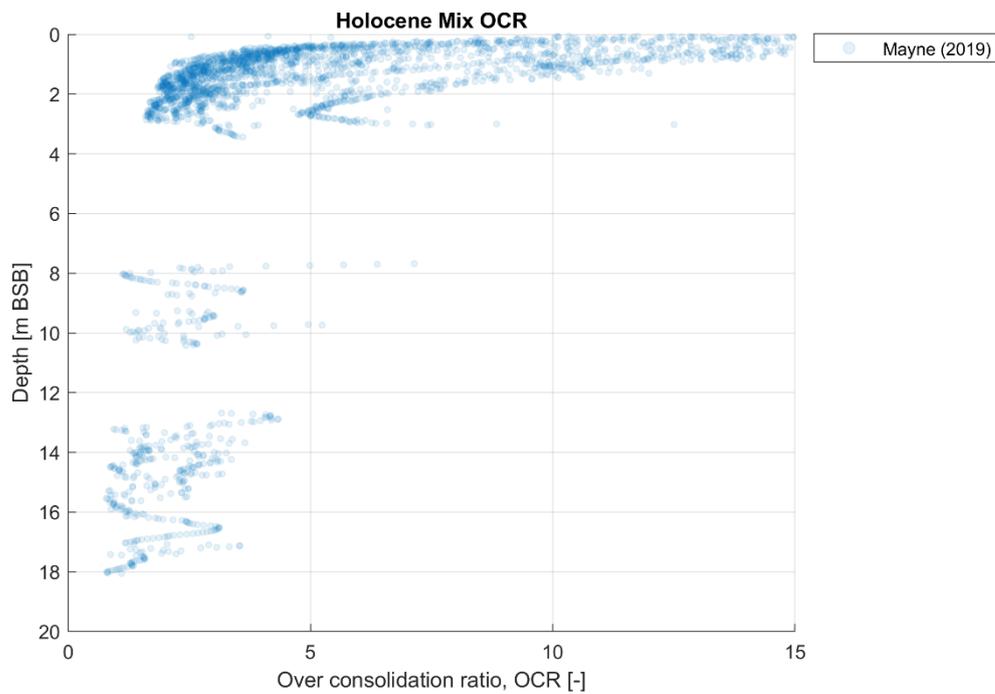


Figure D-2 Range of OCR for geotechnical unit Holocene mix.

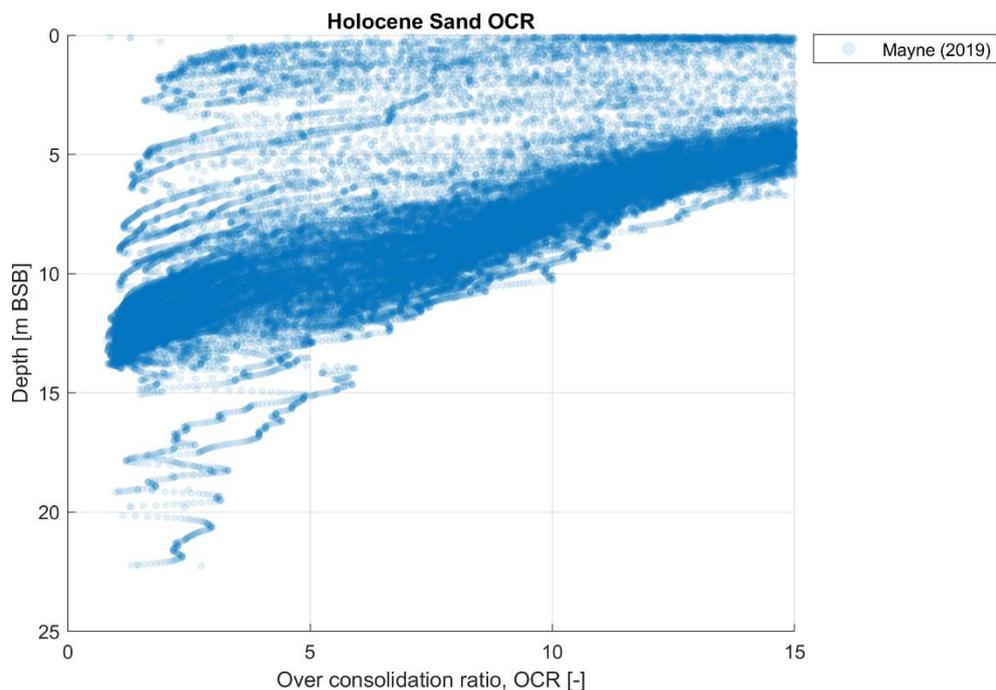


Figure D-3 Range of OCR for geotechnical unit Holocene sand.

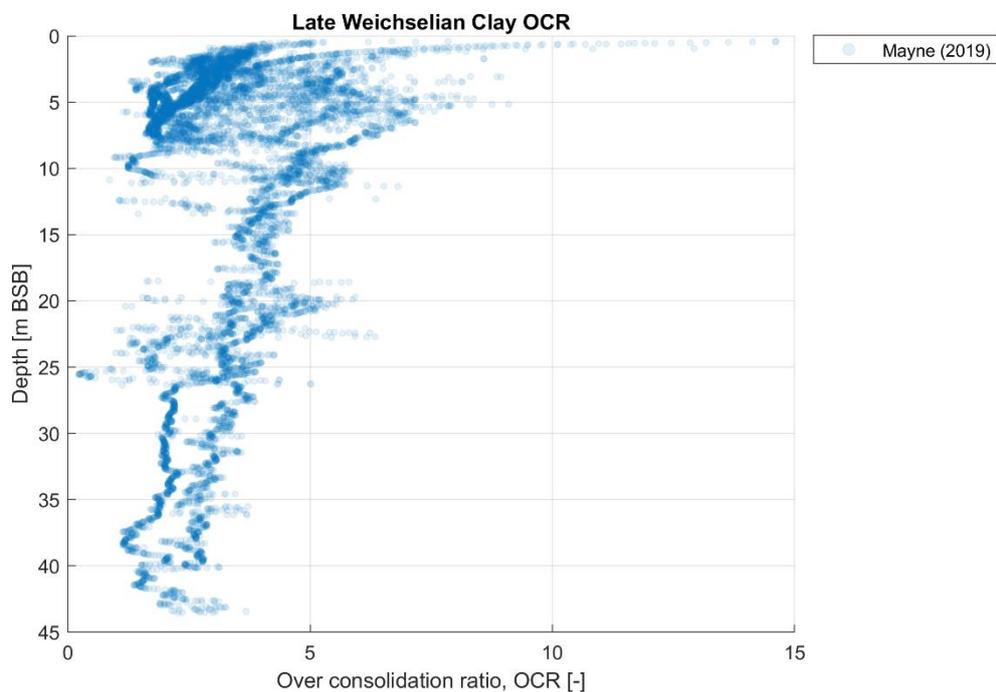


Figure D-4 Range of OCR for geotechnical unit Late Weichselian clay.

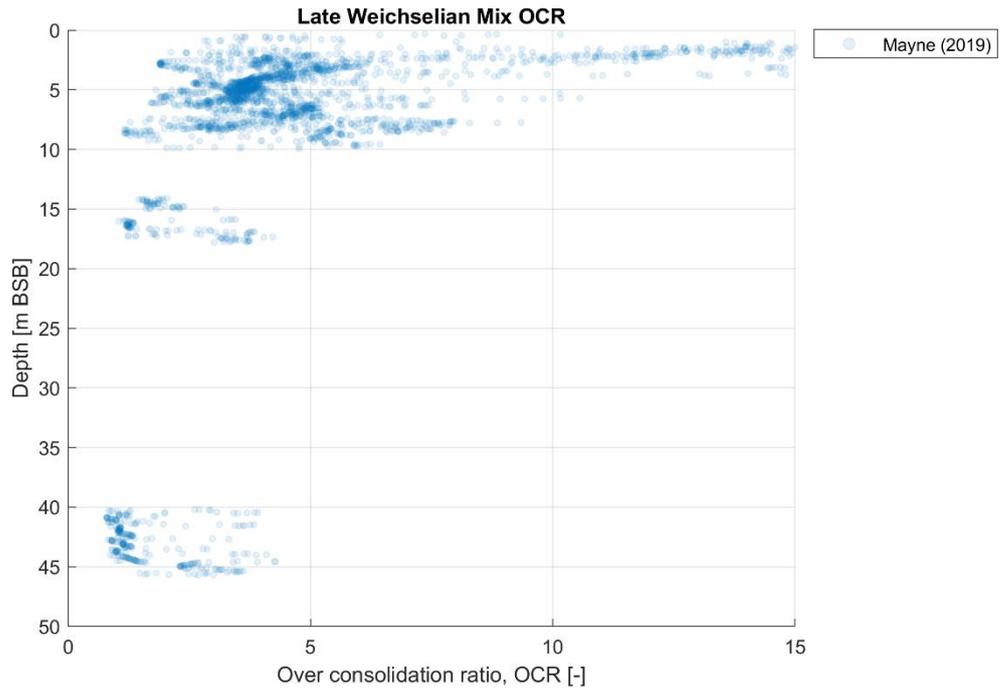


Figure D-5 Range of OCR for geotechnical unit Late Weichselian mix.

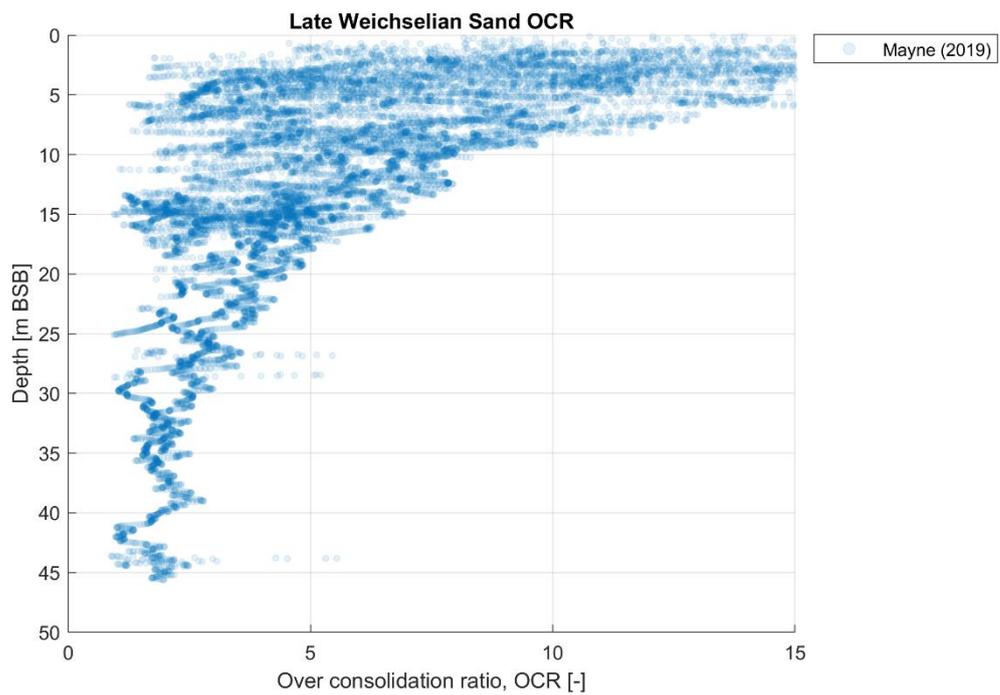


Figure D-6 Range of OCR for geotechnical unit Late Weichselian sand.

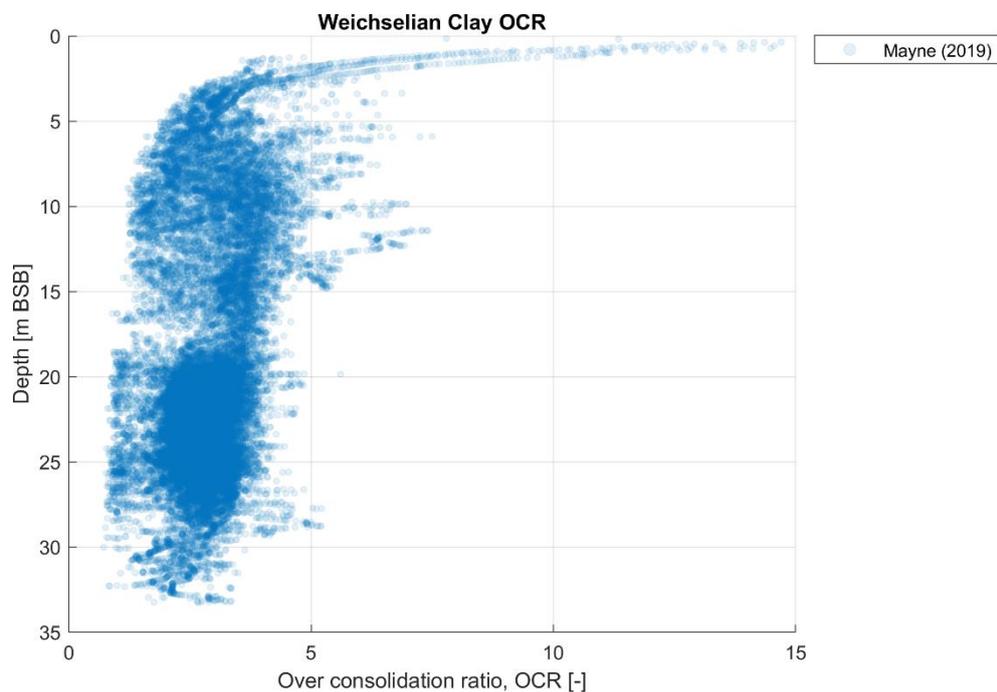


Figure D-7 Range of OCR for geotechnical unit Weichselian clay.

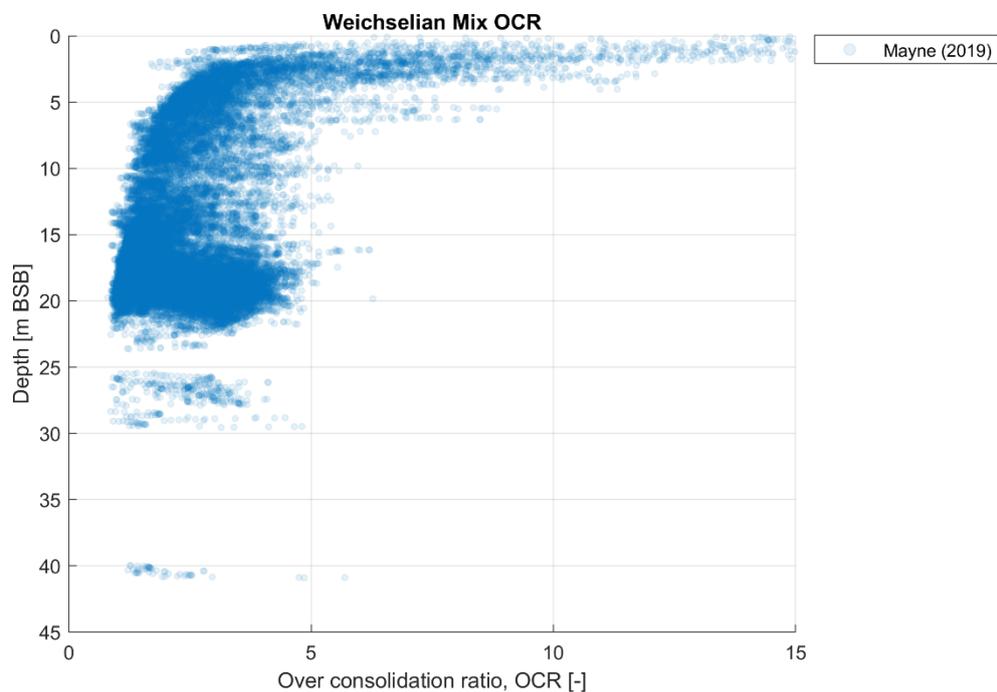


Figure D-8 Range of OCR for geotechnical unit Weichselian mix.

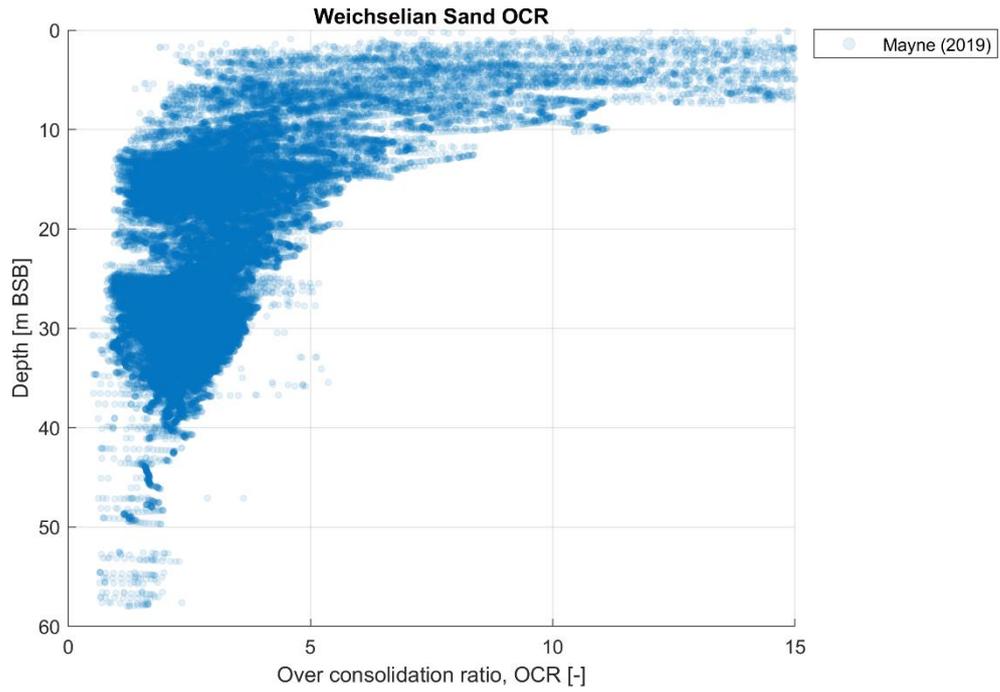


Figure D-9 Range of OCR for geotechnical unit Weichselian sand.

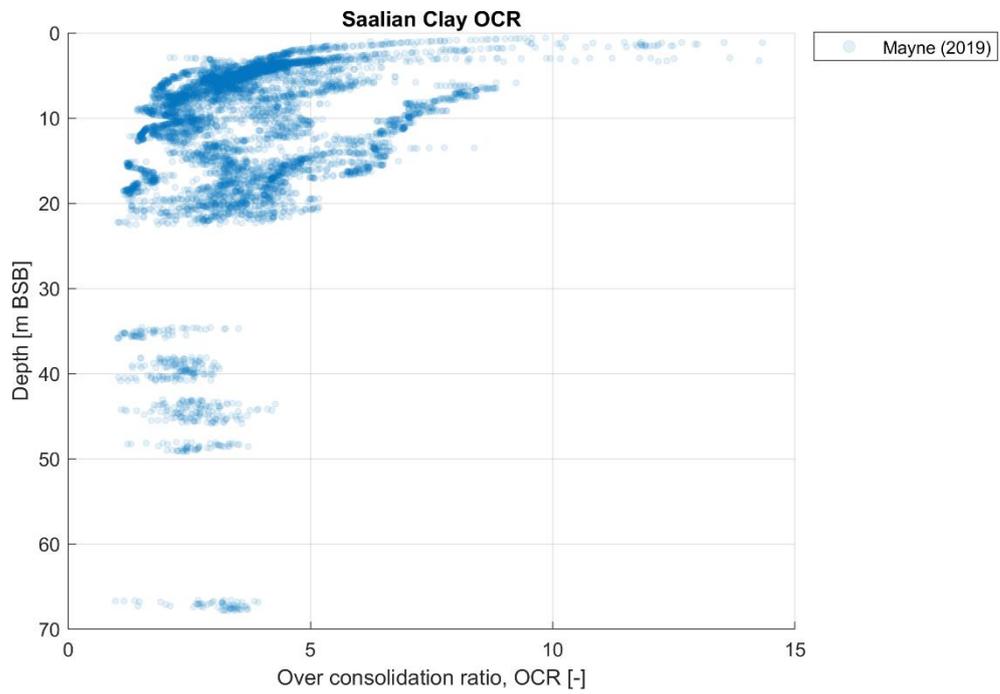


Figure D-10 Range of OCR for geotechnical unit Saalian clay.

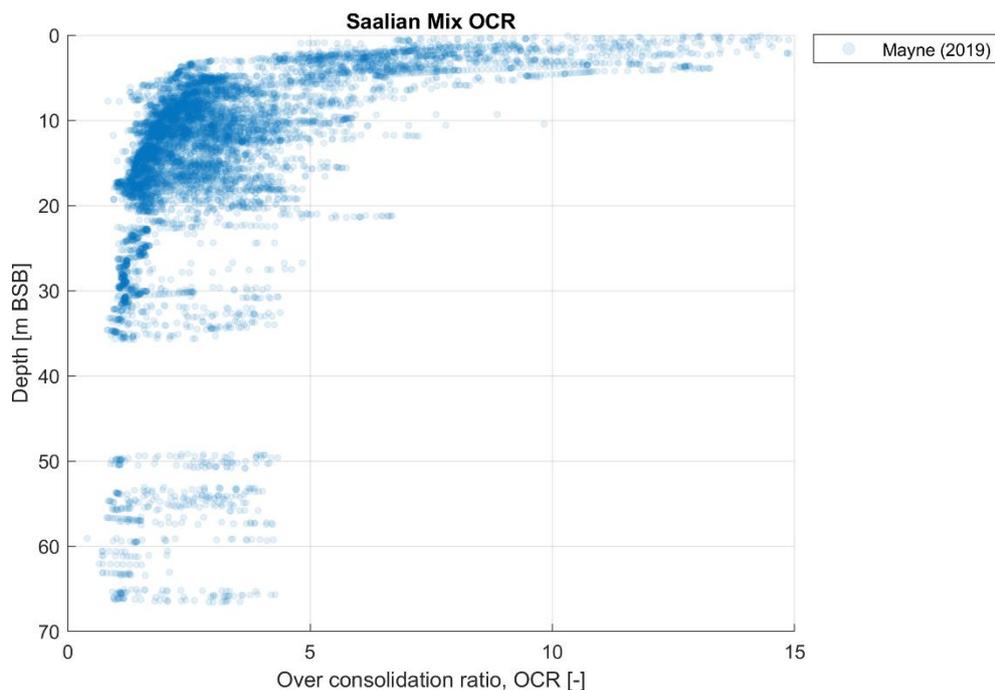


Figure D-11 Range of OCR for geotechnical unit Saalian mix.

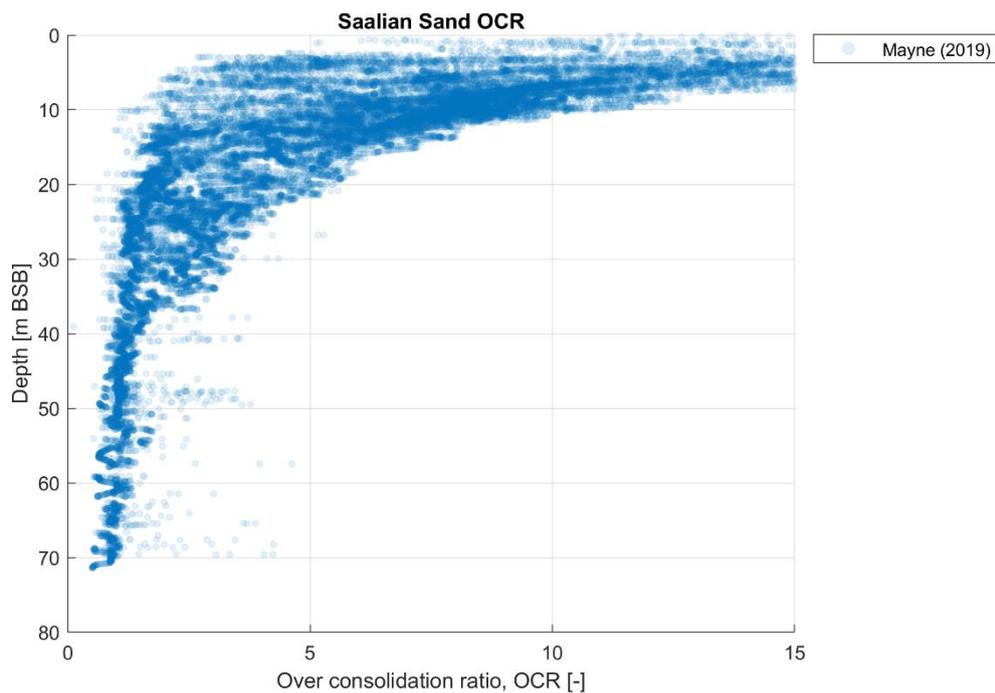


Figure D-12 Range of OCR for geotechnical unit Saalian sand.

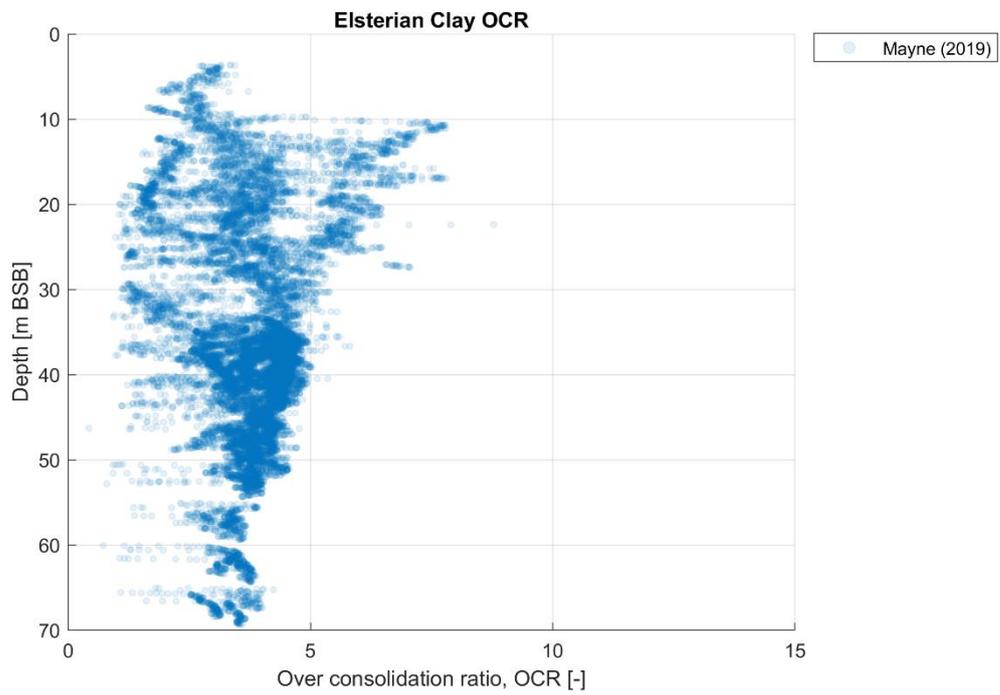


Figure D-13 Range of OCR for geotechnical unit Elsterian clay.

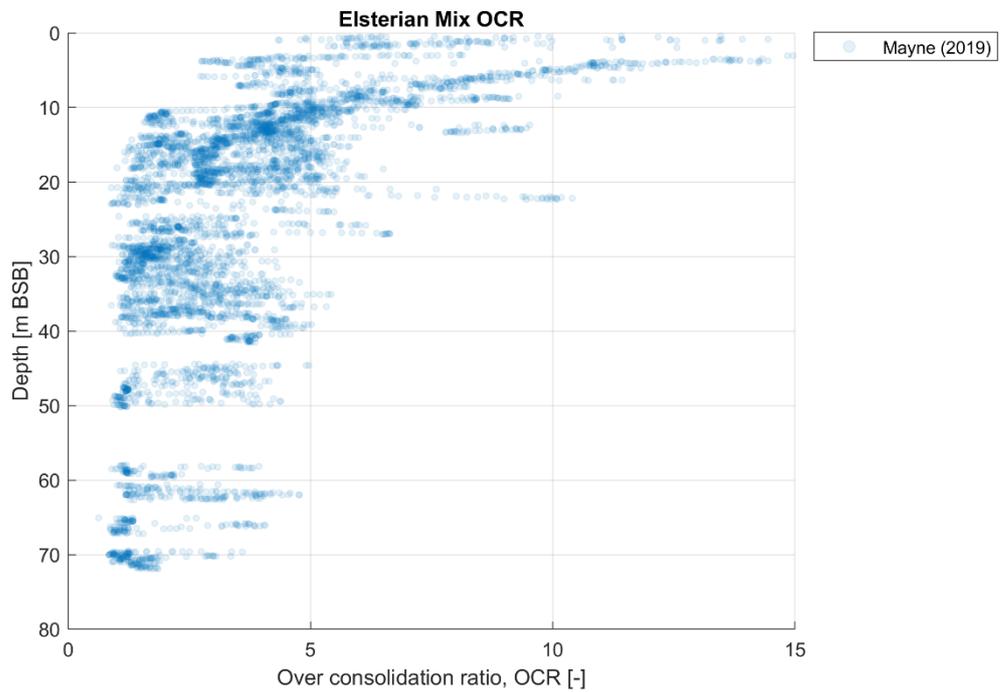


Figure D-14 Range of OCR for geotechnical unit Elsterian mix.

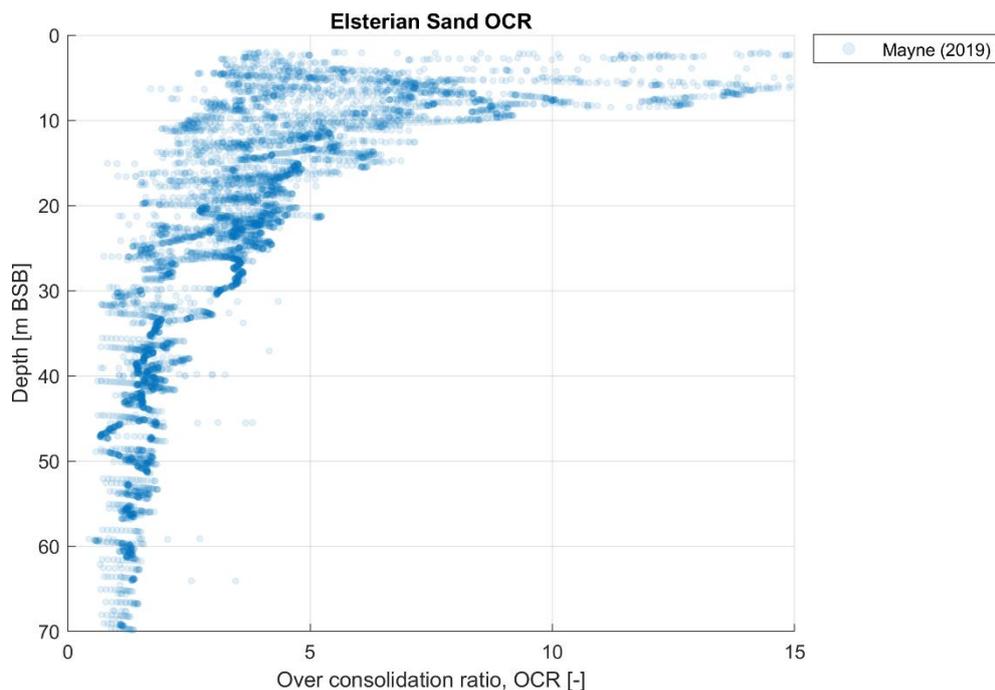


Figure D-15 Range of OCR for geotechnical unit Elsterian sand.

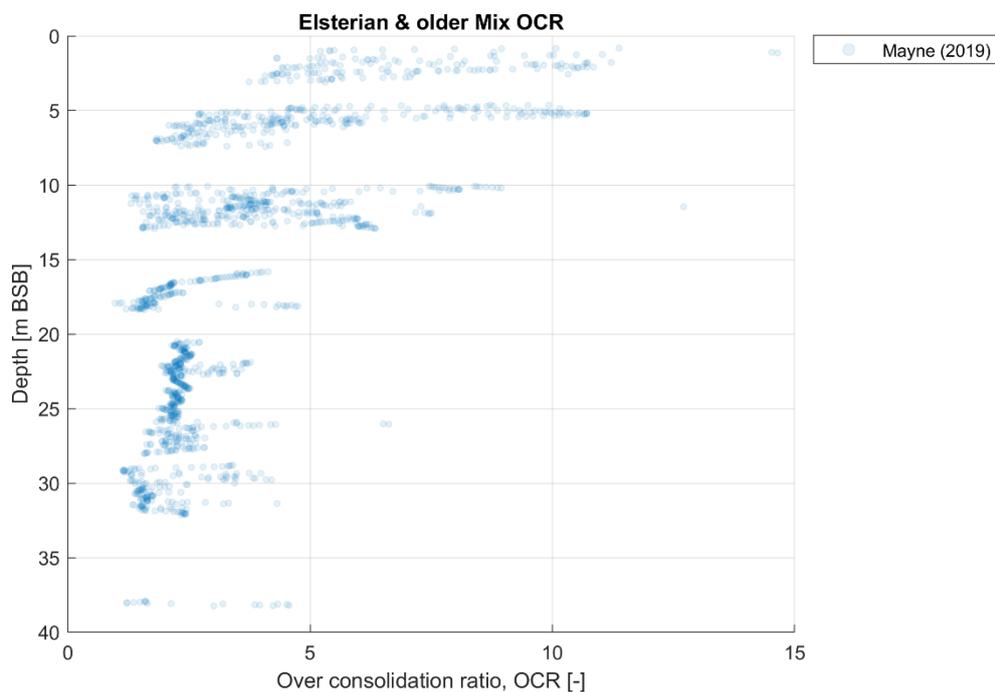


Figure D-16 Range of OCR for geotechnical unit Elsterian & older mix.

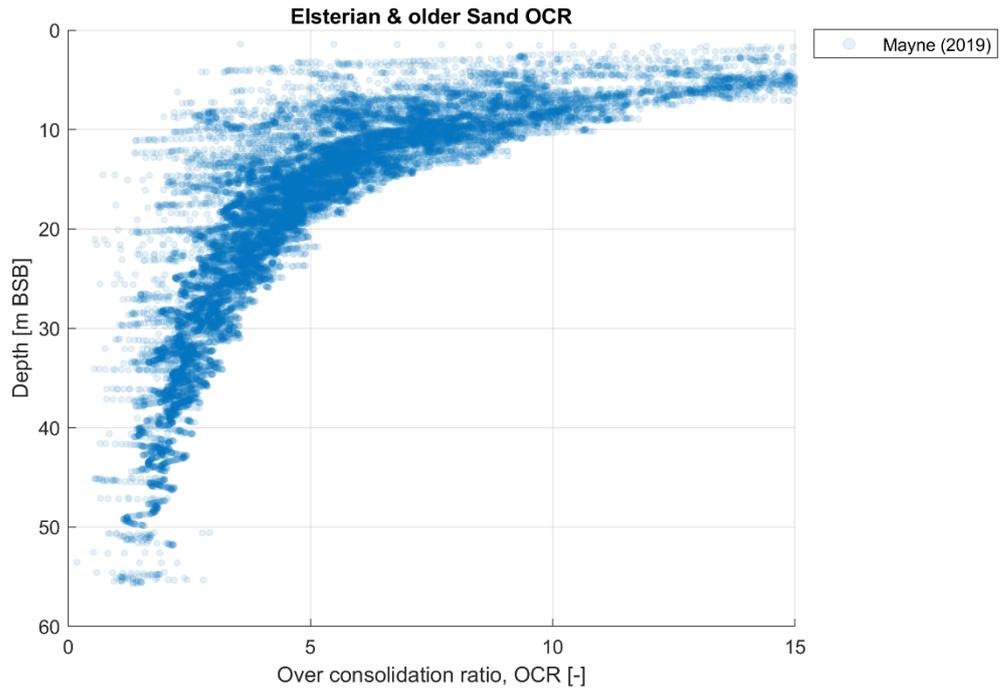


Figure D-17 Range of OCR for geotechnical unit Elsterian & older sand.

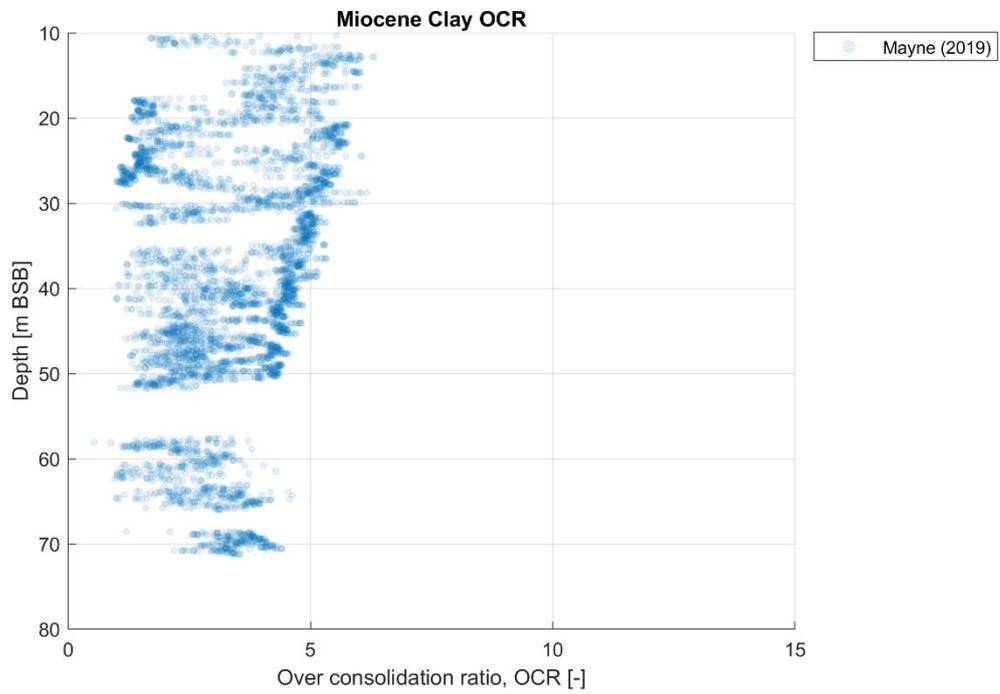


Figure D-18 Range of OCR for geotechnical unit Miocene clay.

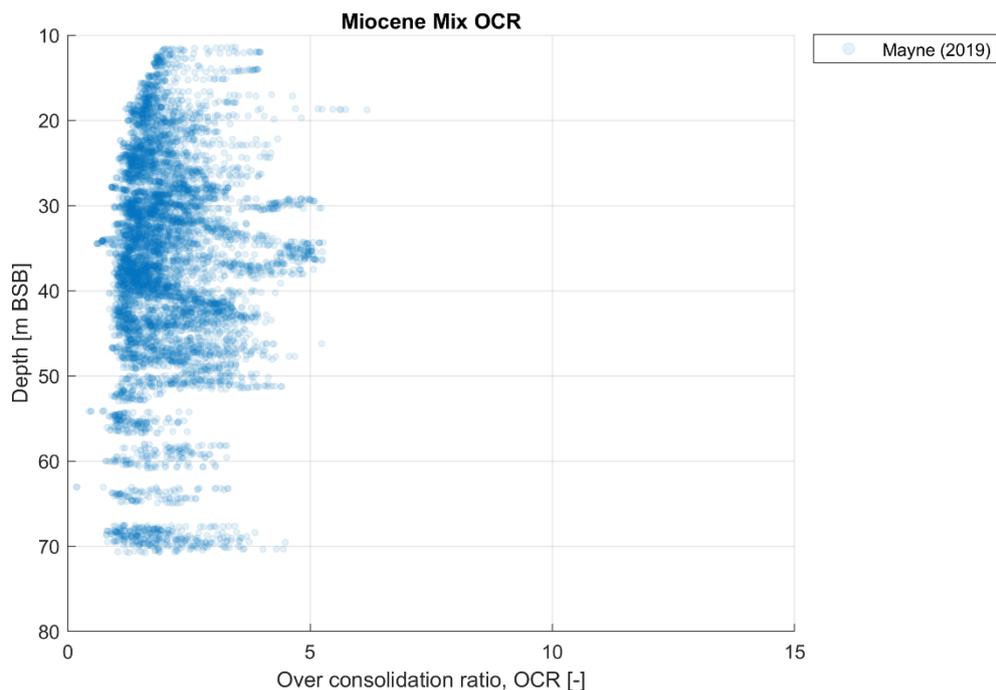


Figure D-19 Range of OCR for geotechnical unit Miocene mix.

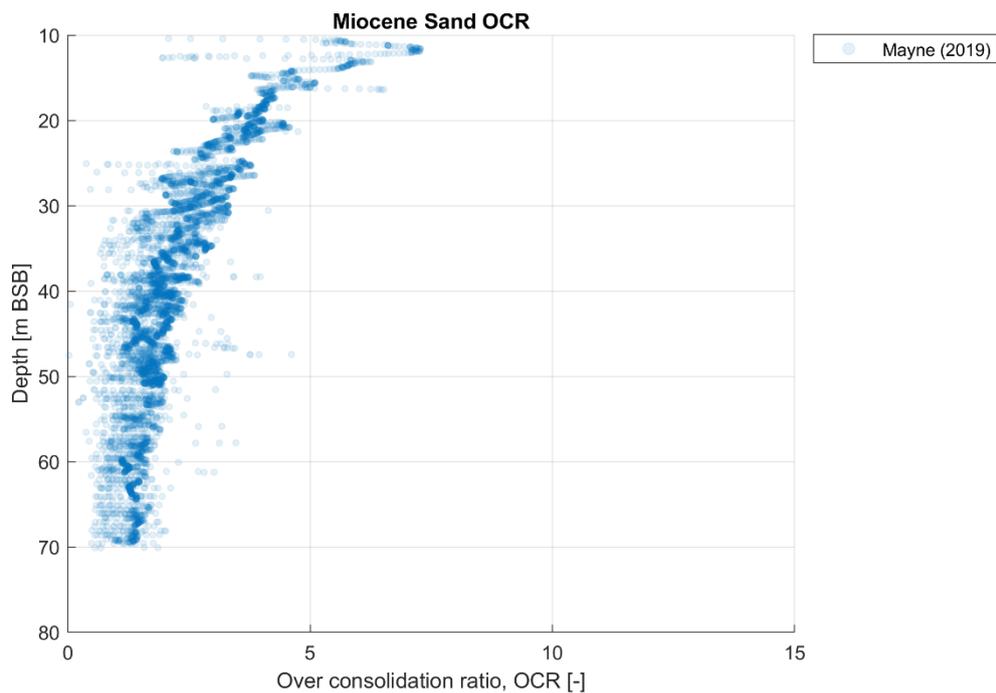


Figure D-20 Range of OCR for geotechnical unit Miocene sand.

D.2 Relative density

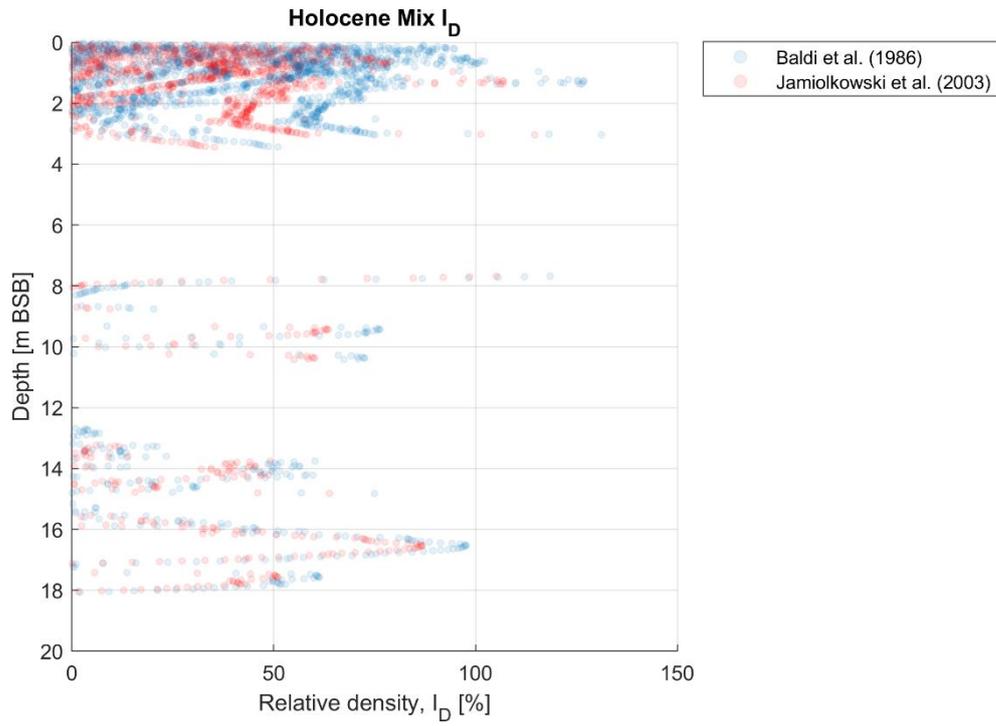


Figure D-21 Range of I_D for geotechnical unit Holocene mix.

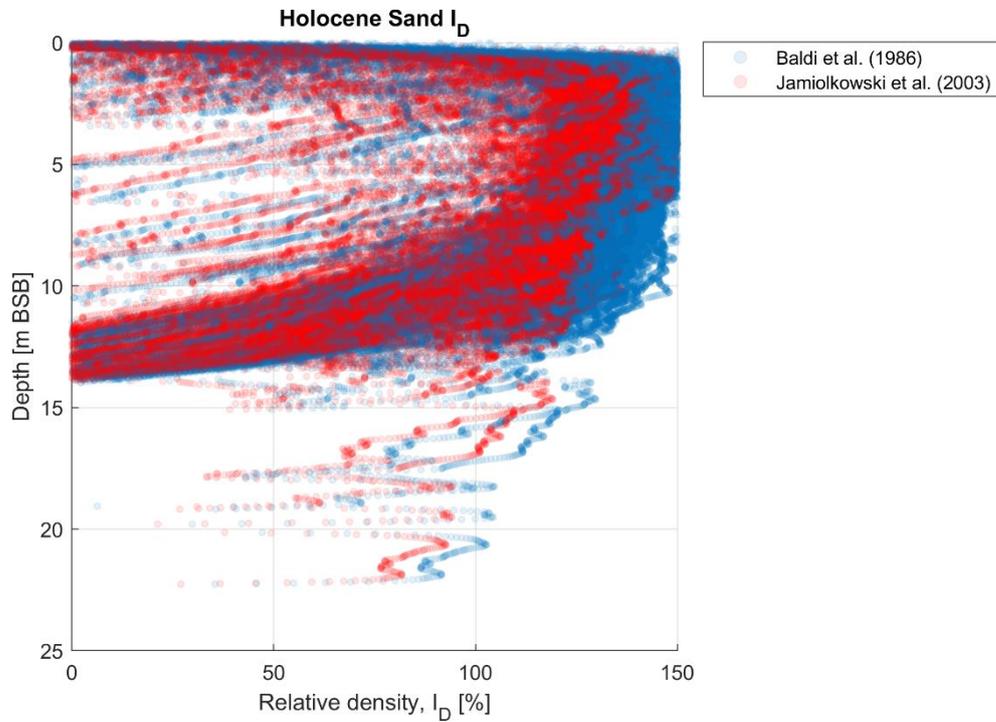


Figure D-22 Range of I_D for geotechnical unit Holocene sand.

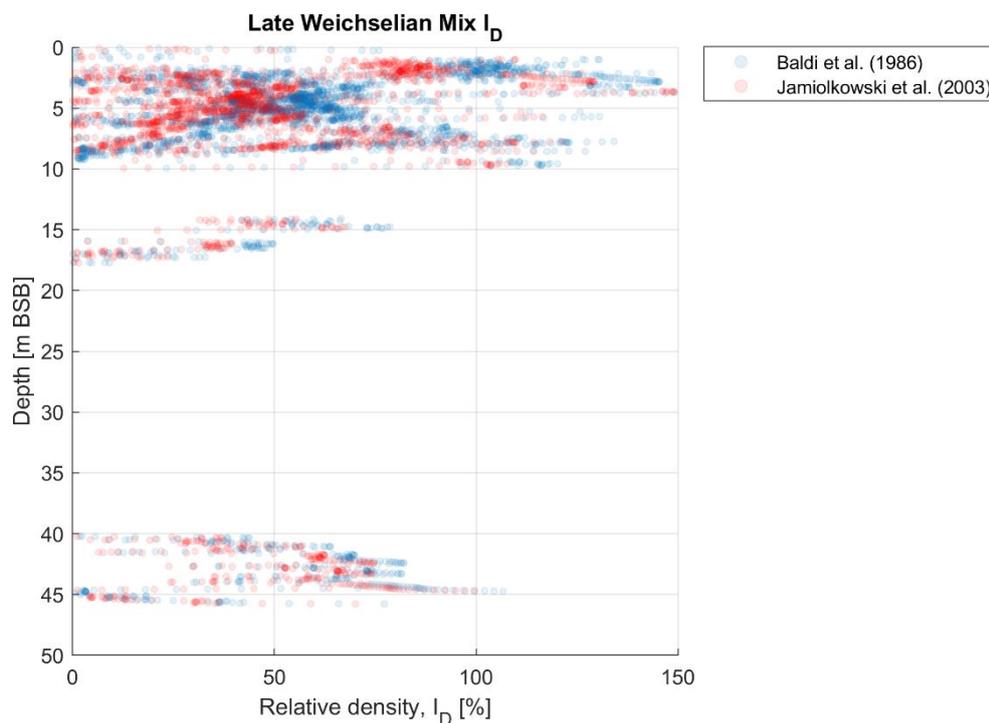


Figure D-23 Range of I_D for geotechnical unit Late Weichselian mix.

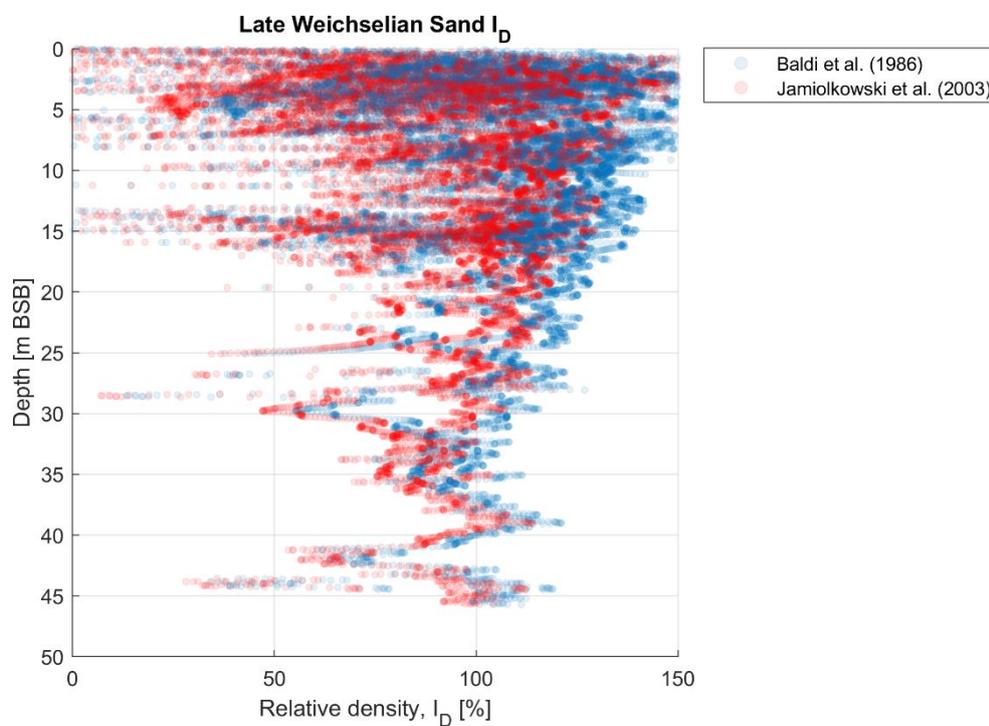


Figure D-24 Range of I_D for geotechnical unit Late Weichselian sand.

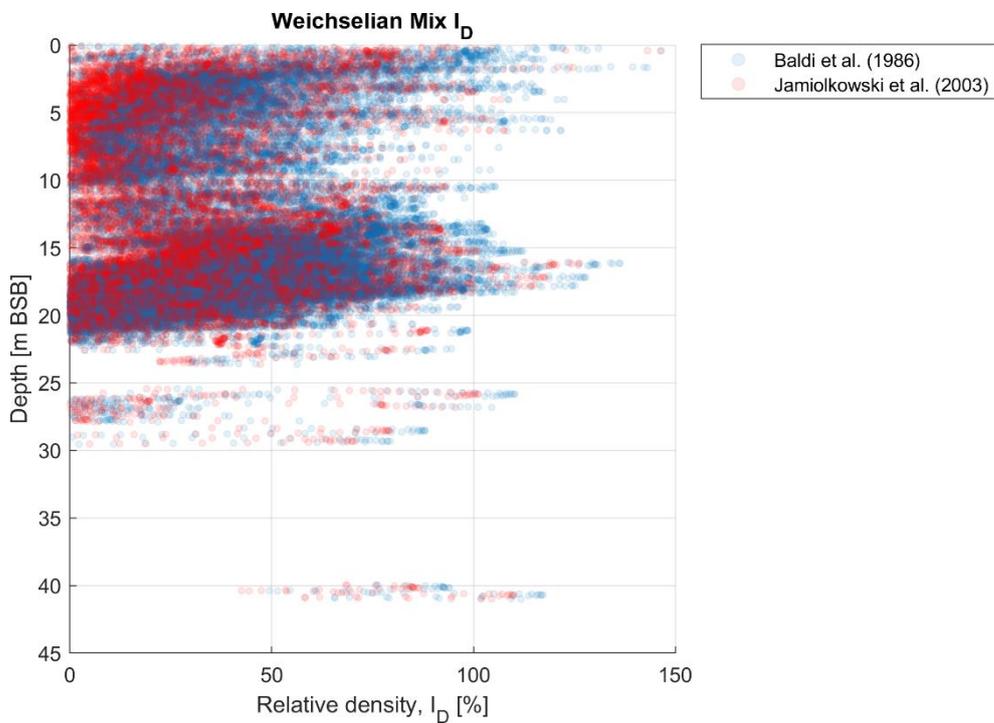


Figure D-25 Range of I_D for geotechnical unit Weichselian mix.

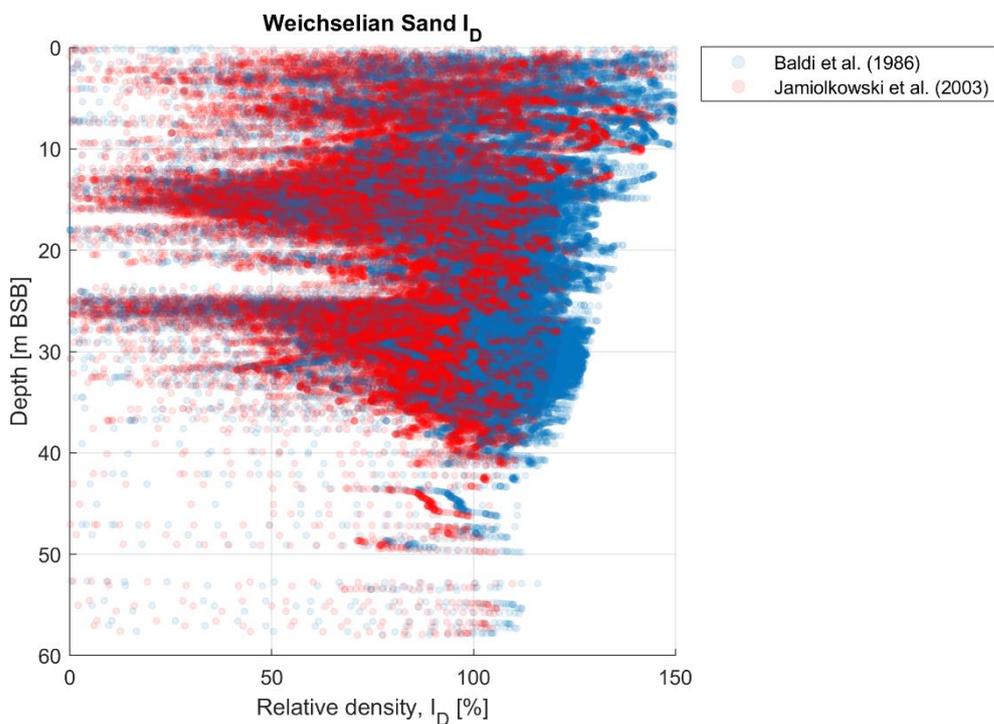


Figure D-26 Range of I_D for geotechnical unit Weichselian sand.

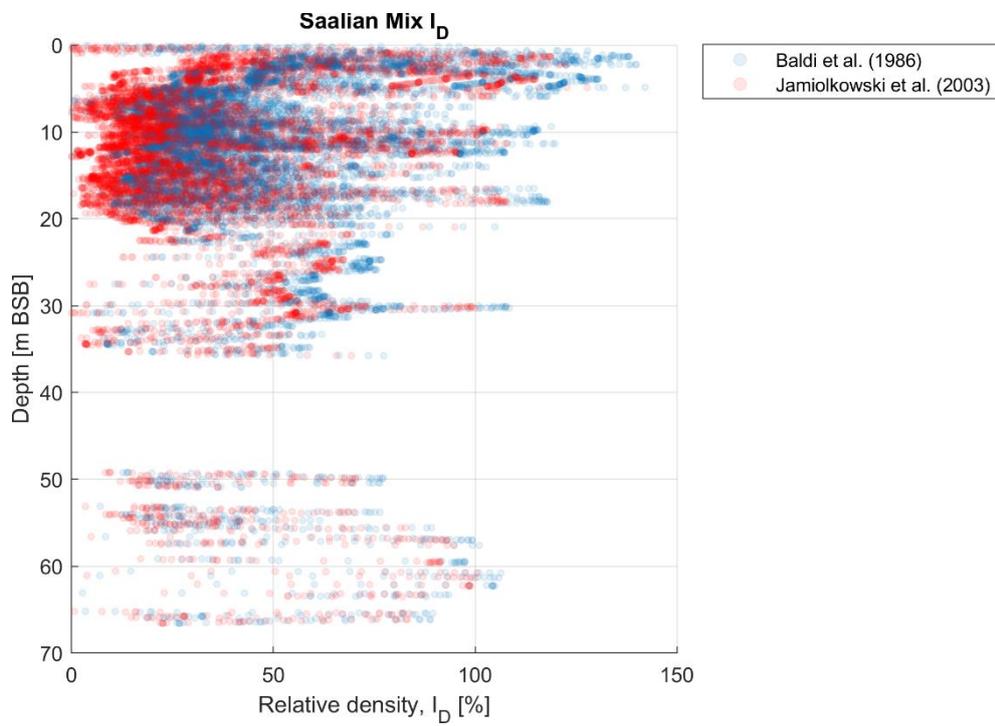


Figure D-27 Range of I_D for geotechnical unit Saalian mix.

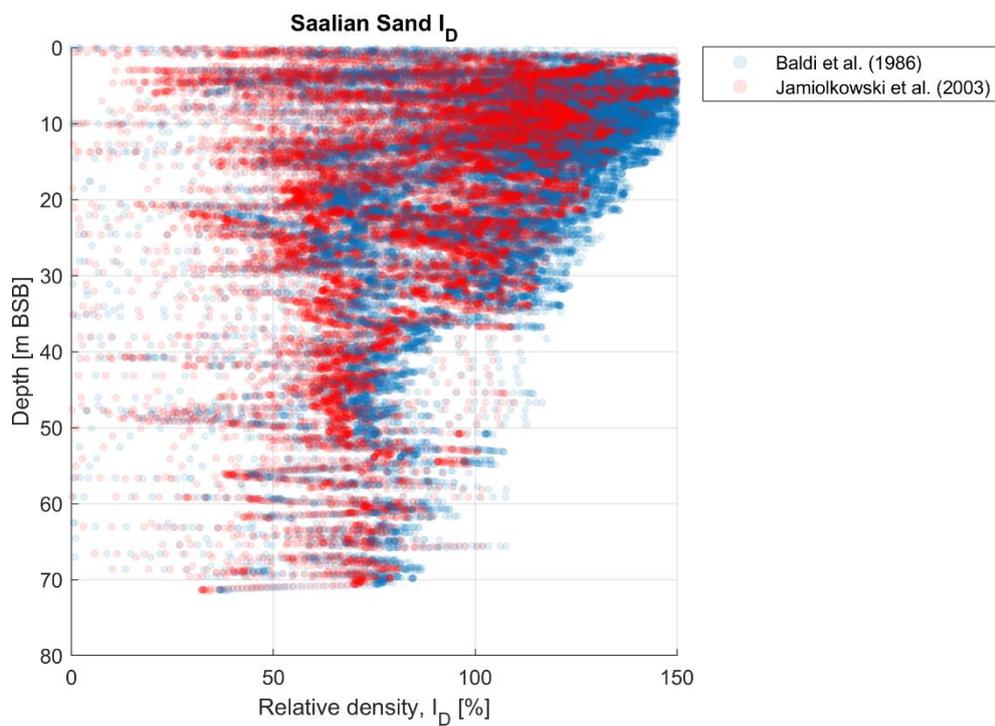


Figure D-28 Range of I_D for geotechnical unit Saalian sand.

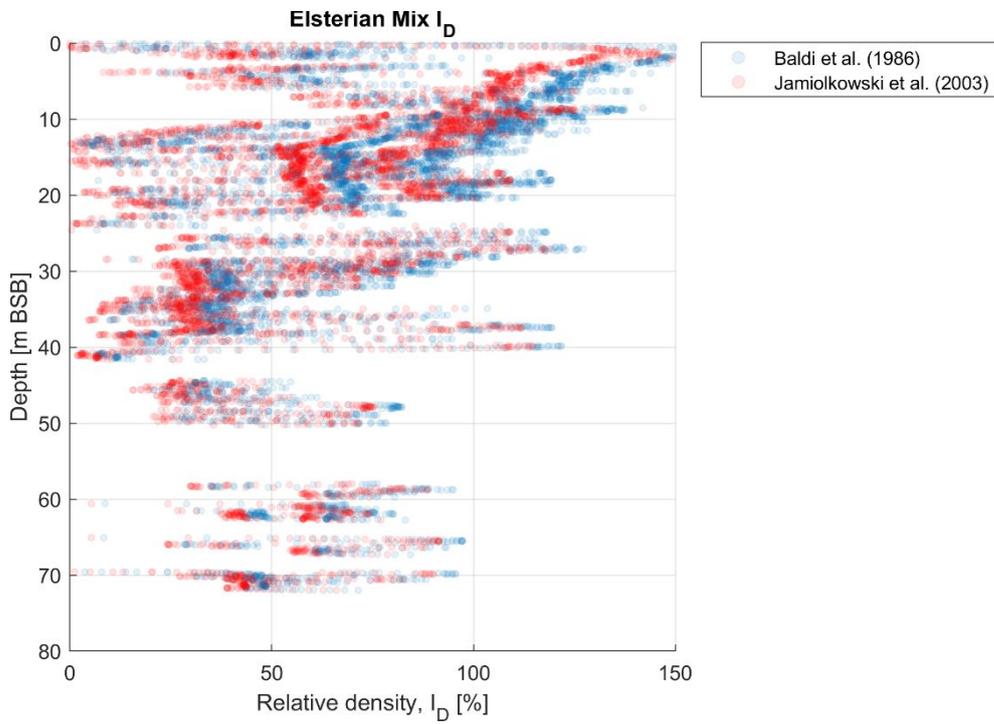


Figure D-29 Range of I_D for geotechnical unit Elsterian mix.

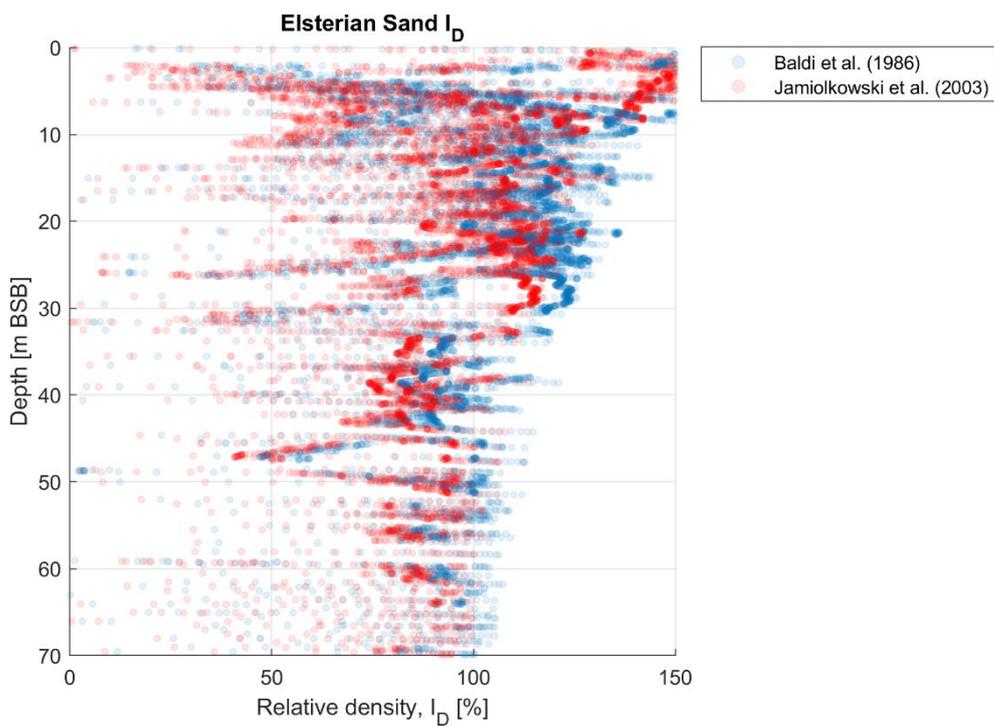


Figure D-30 Range of I_D for geotechnical unit Elsterian sand.

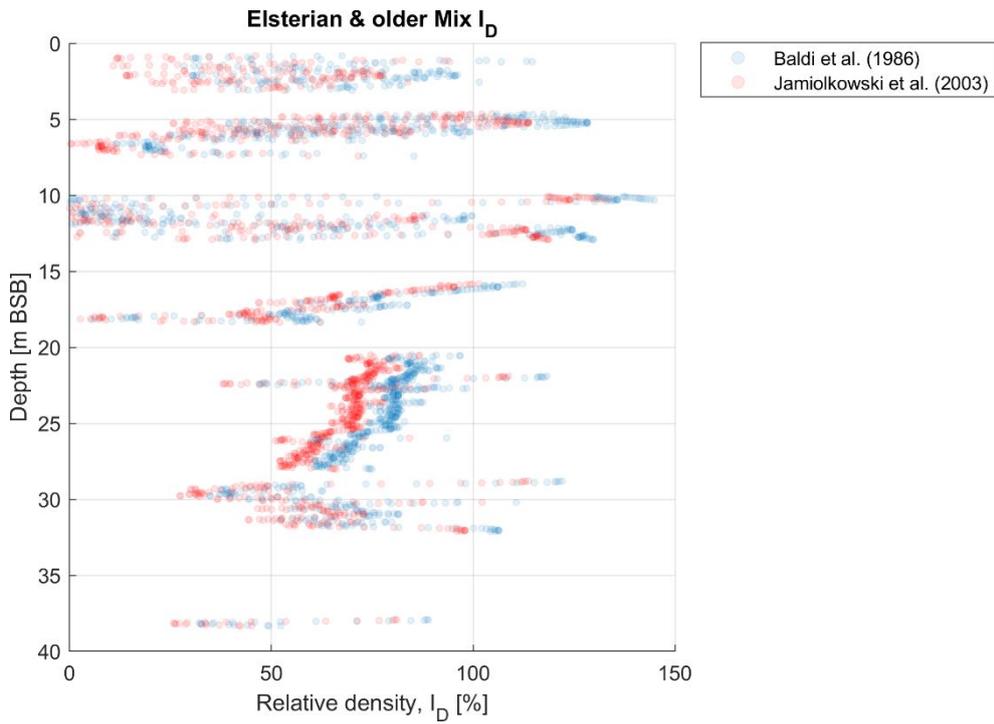


Figure D-31 Range of I_D for geotechnical unit Elsterian & older mix.

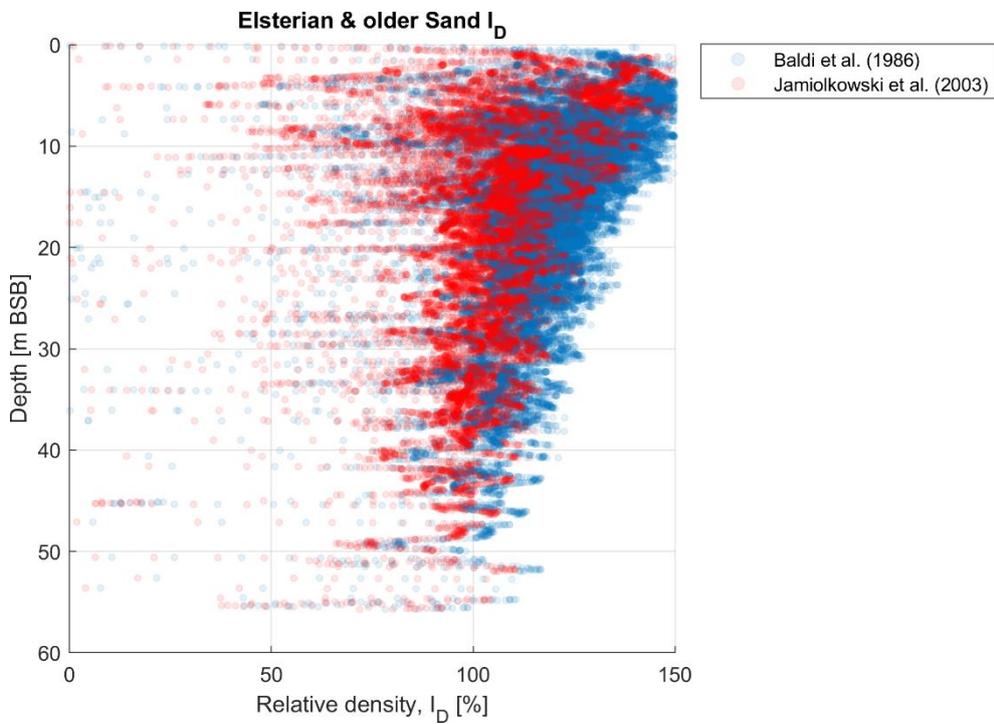


Figure D-32 Range of I_D for geotechnical unit Elsterian & older sand.

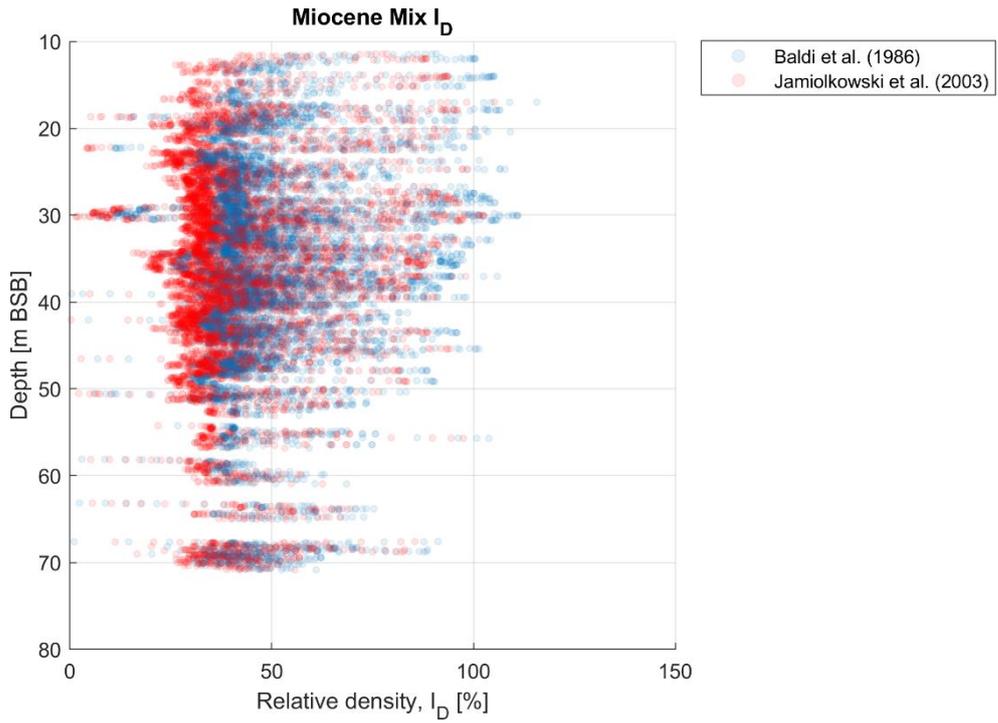


Figure D-33 Range of I_D for geotechnical unit Miocene mix.

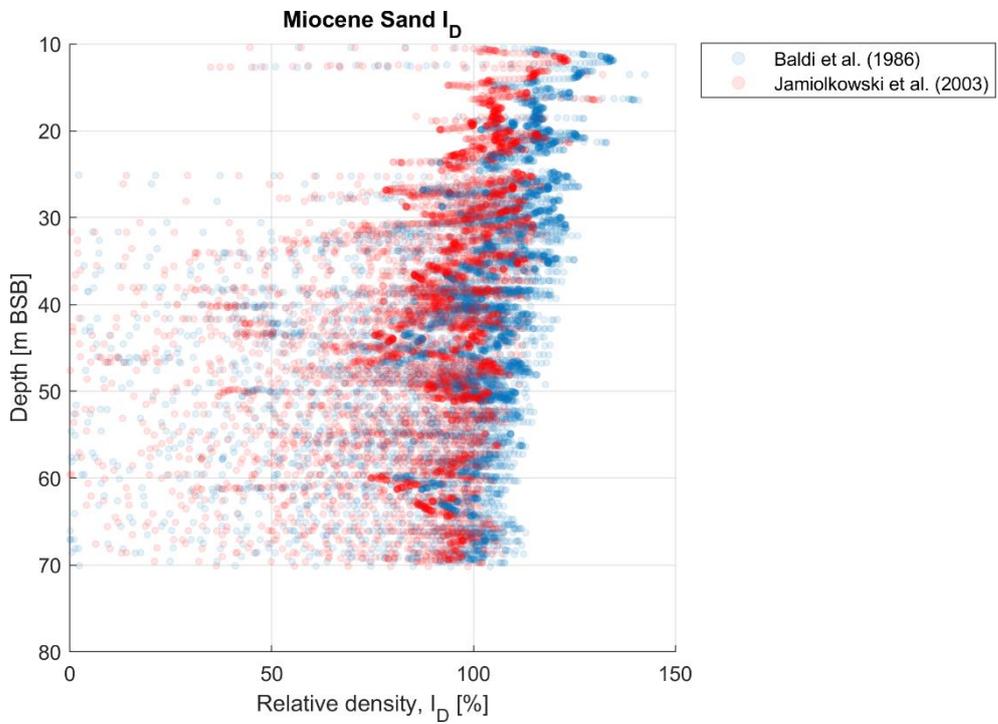


Figure D-34 Range of I_D for geotechnical unit Miocene sand.

D.3 Friction angle

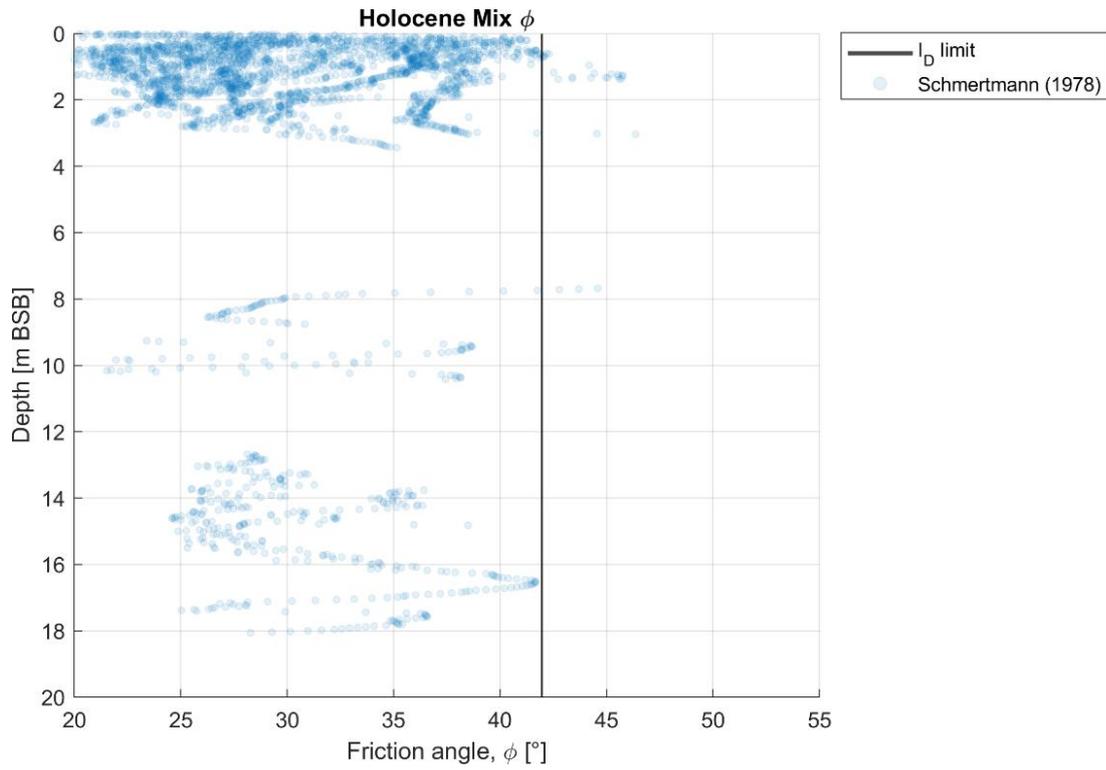


Figure D-35 Range of ϕ for geotechnical unit Holocene mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

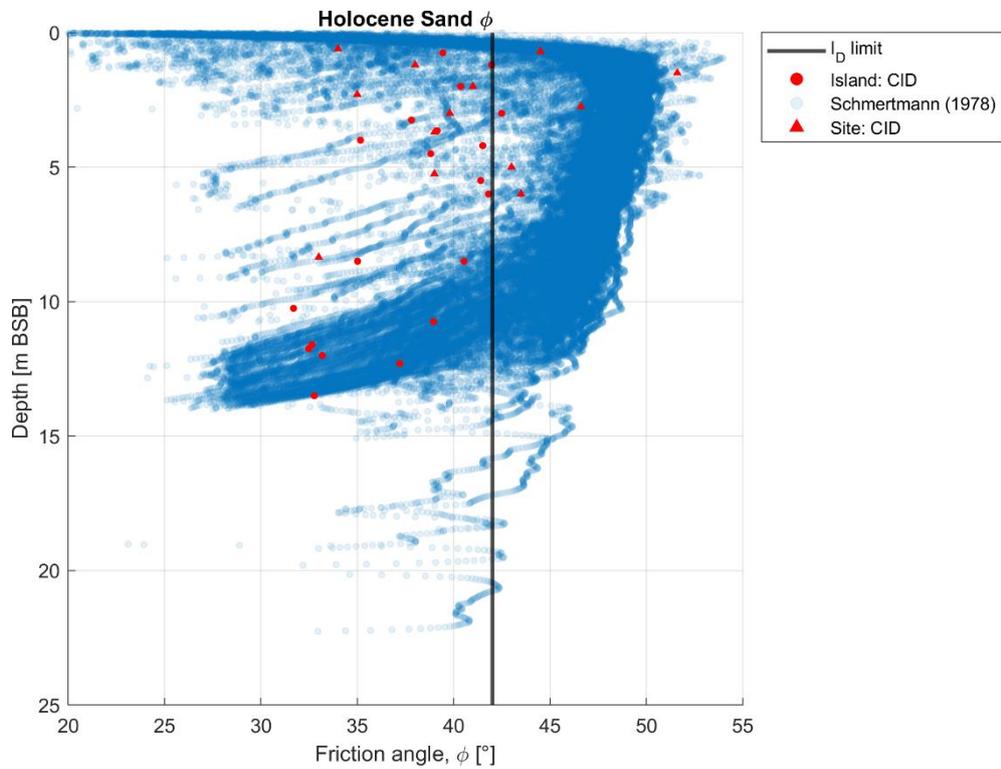


Figure D-36 Range of ϕ for geotechnical unit Holocene sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

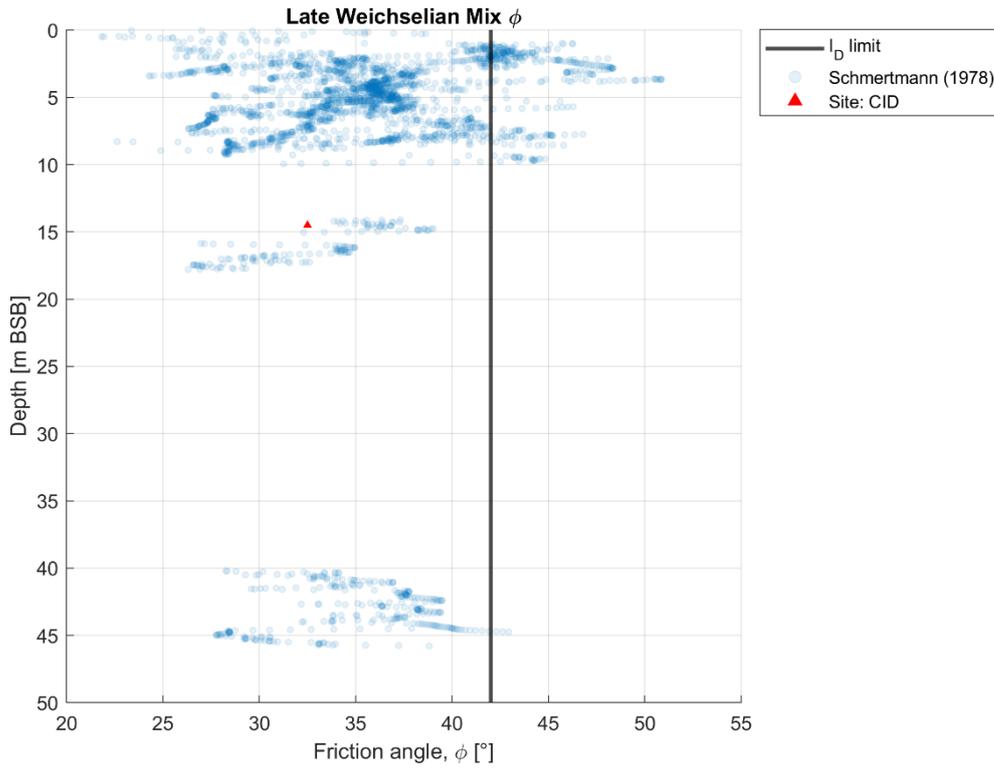


Figure D-37 Range of ϕ for geotechnical unit Late Weichselian mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

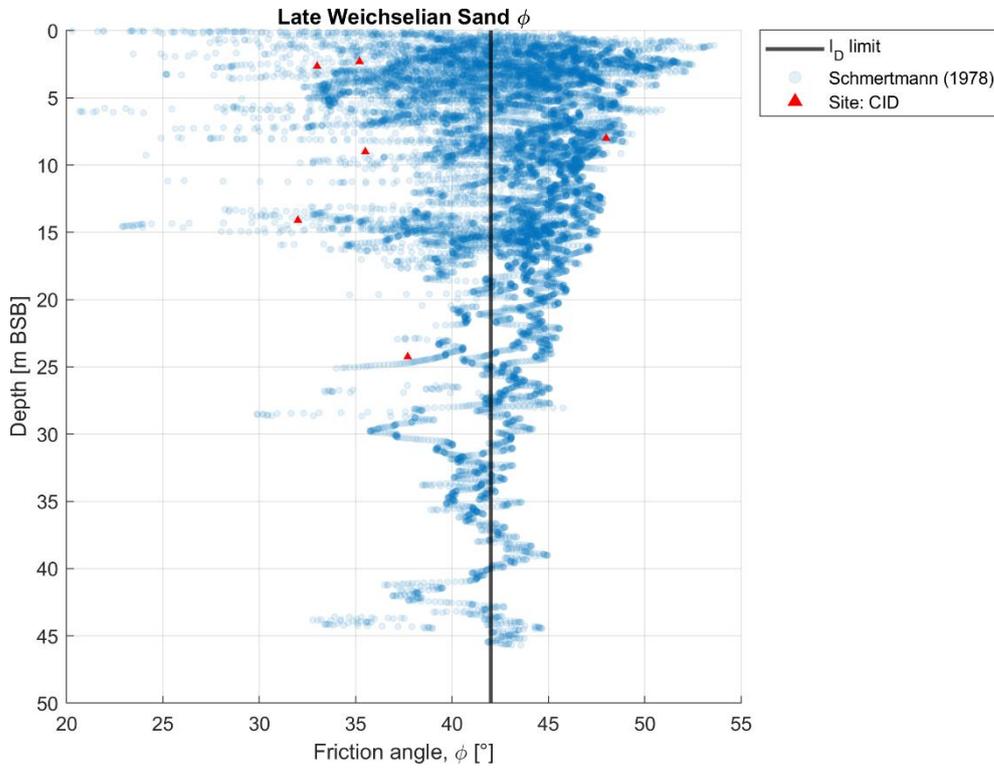


Figure D-38 Range of ϕ for geotechnical unit Late Weichselian sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

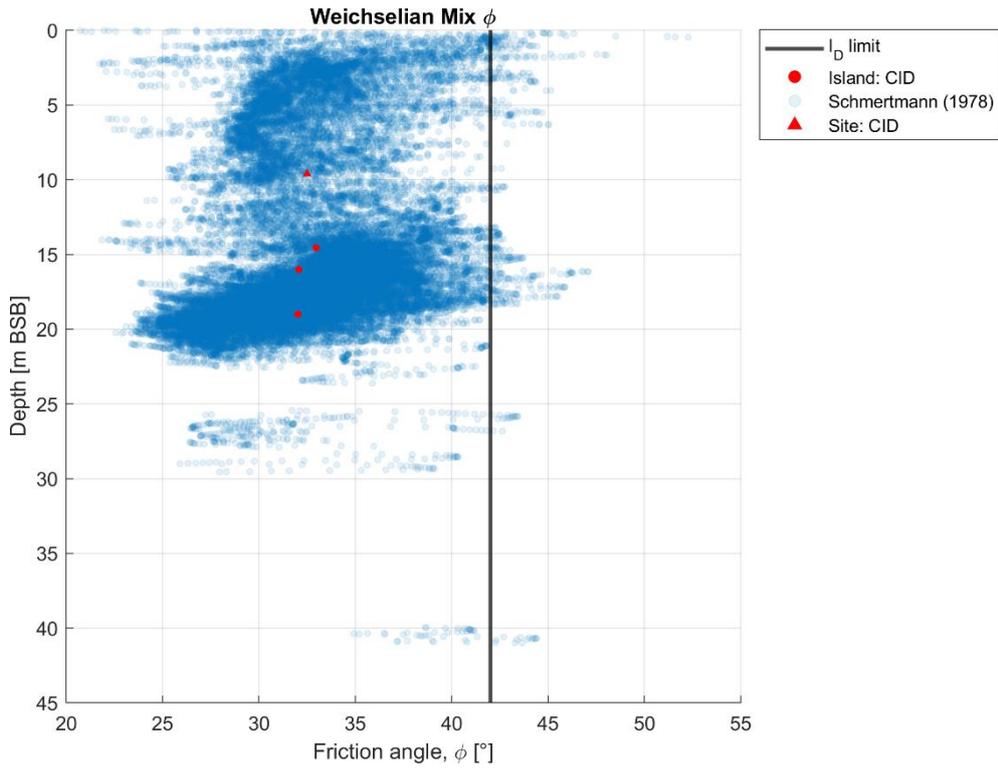


Figure D-39 Range of ϕ for geotechnical unit Weichselian mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

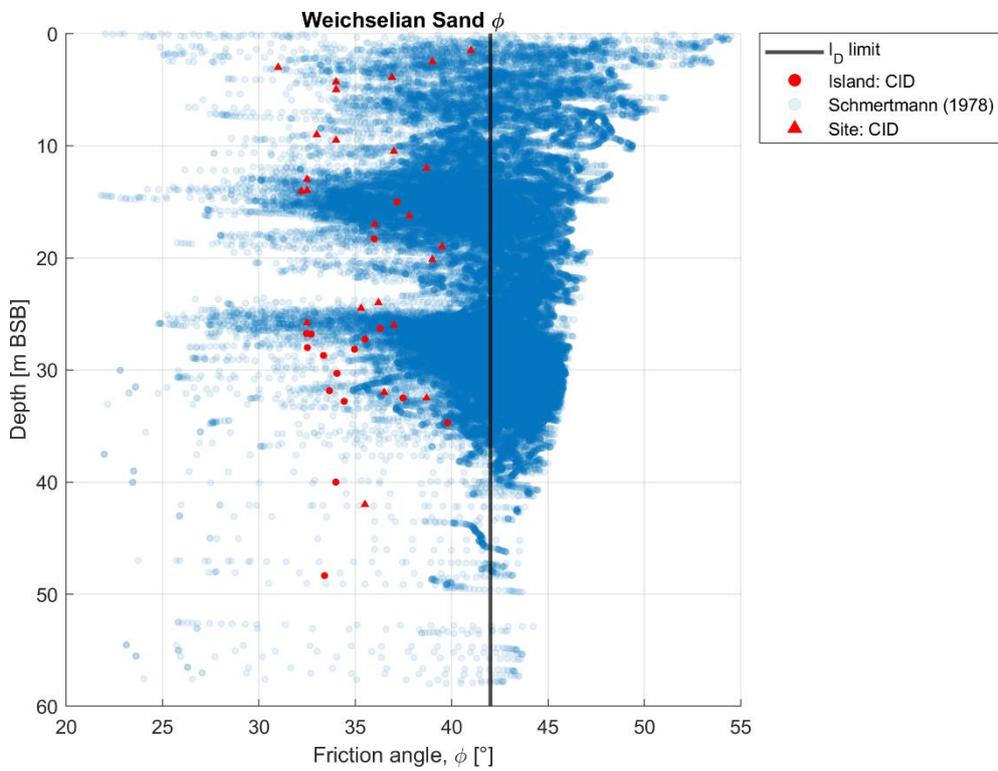


Figure D-40 Range of ϕ for geotechnical unit Weichselian sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

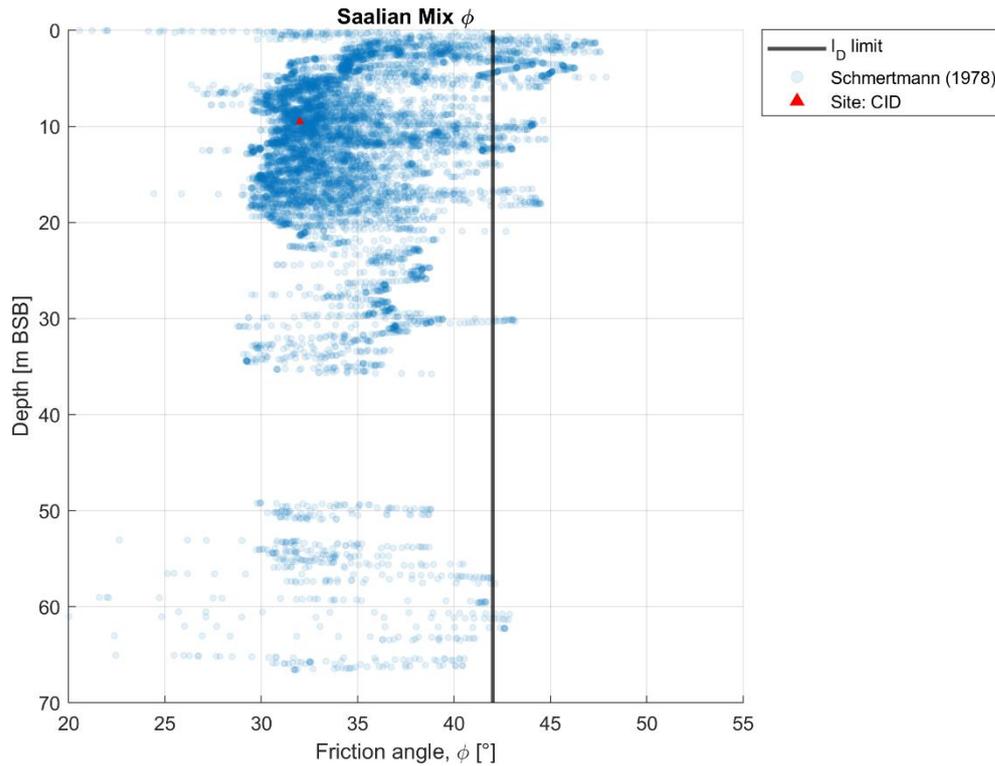


Figure D-41 Range of ϕ for geotechnical unit Saalian mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

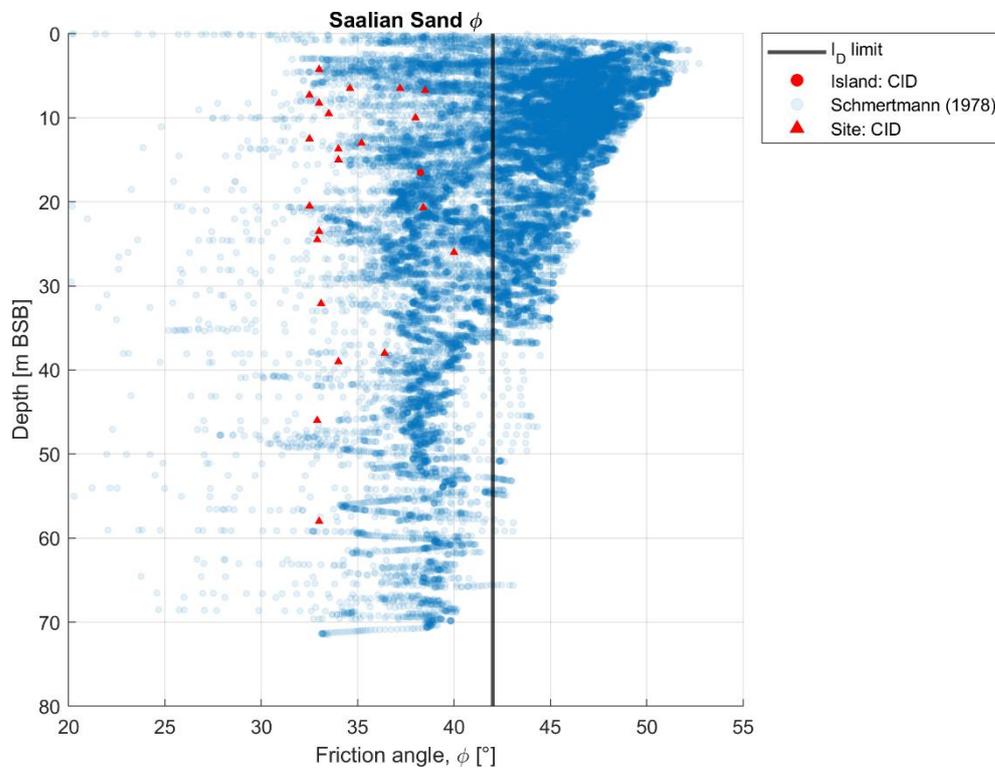


Figure D-42 Range of ϕ for geotechnical unit Saalian sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

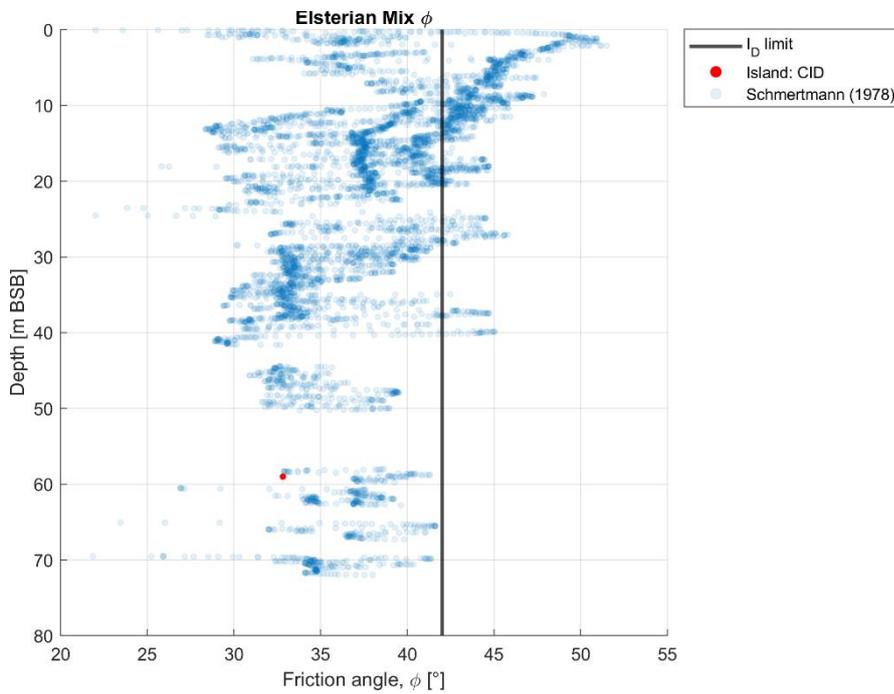


Figure D-43 Range of ϕ for geotechnical unit Elsterian mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

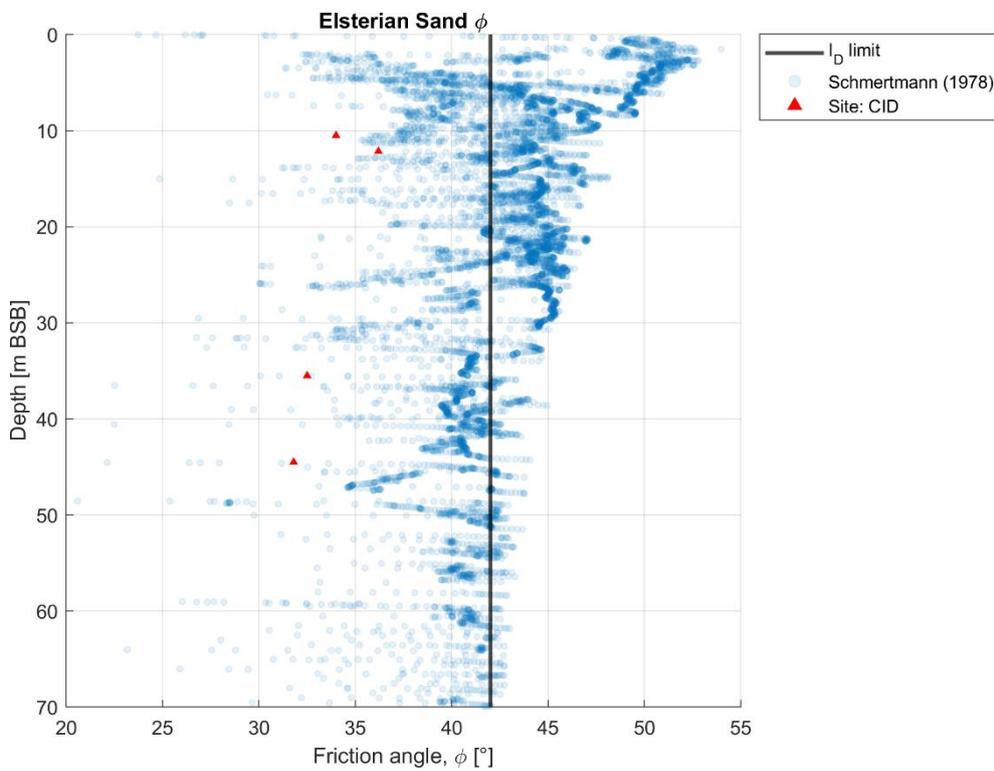


Figure D-44 Range of ϕ for geotechnical unit Elsterian sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

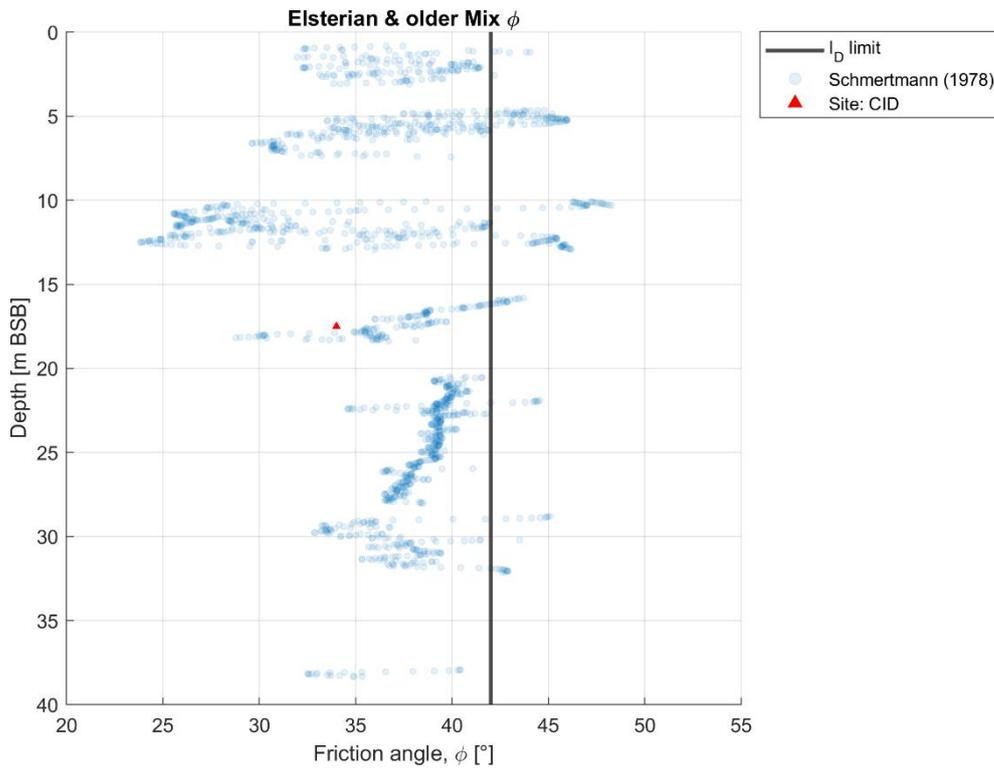


Figure D-45 Range of ϕ for geotechnical unit Elsterian & older mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

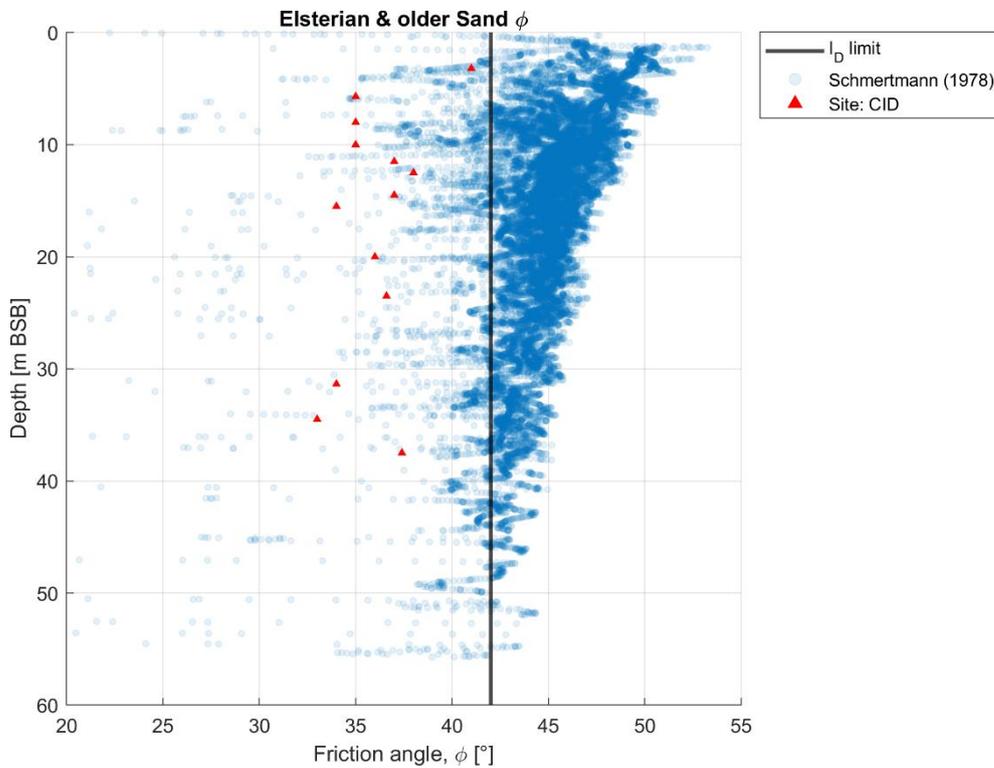


Figure D-46 Range of ϕ for geotechnical unit Elsterian & older sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

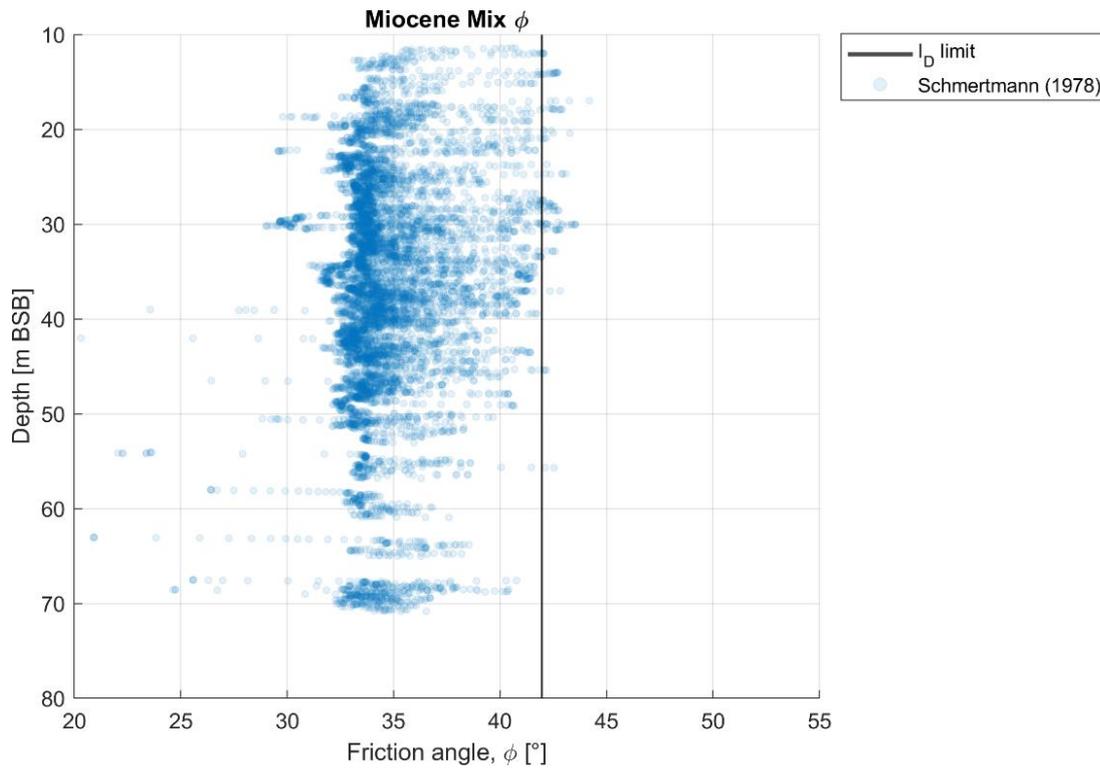


Figure D-47 Range of ϕ for geotechnical unit Miocene mix using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

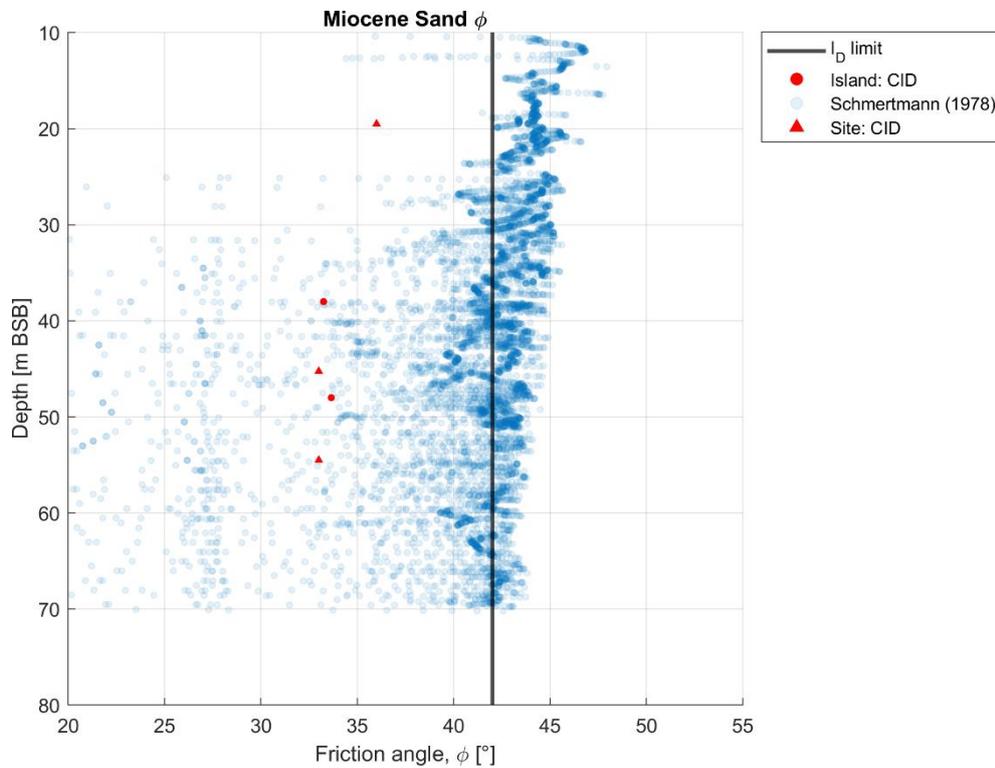


Figure D-48 Range of ϕ for geotechnical unit Miocene sand using CPT correlation and laboratory test results (CID – Consolidated Drained triaxial test).

D.4 Undrained shear strength

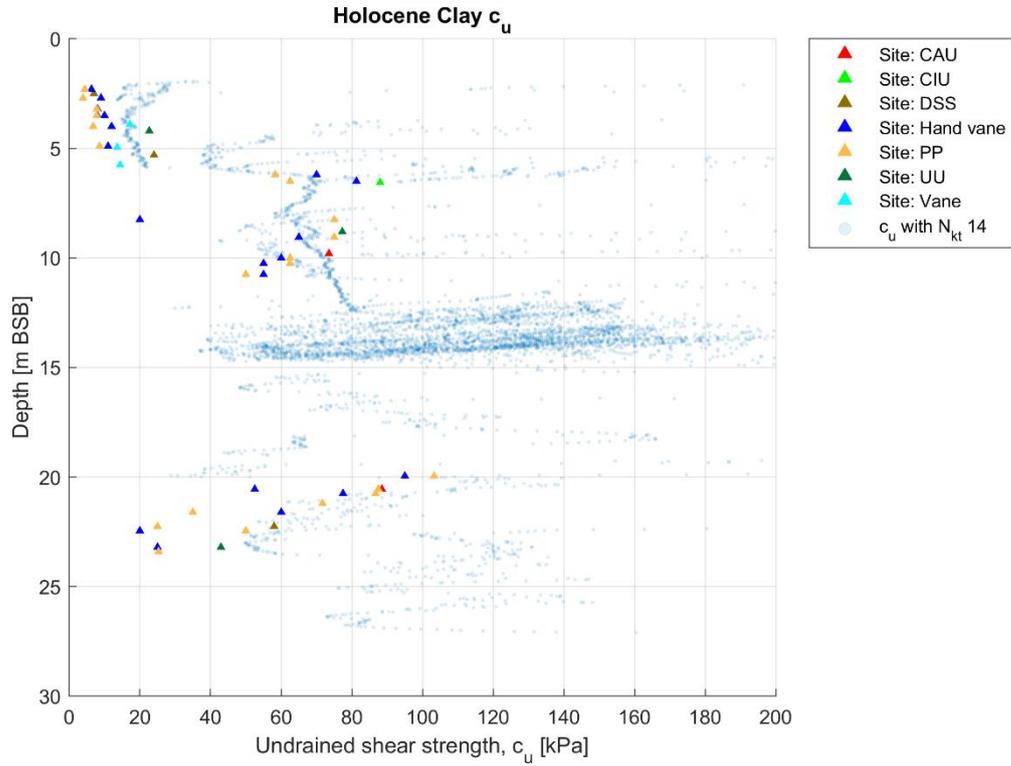


Figure D-49 Range of c_u for geotechnical unit Holocene clay using CPT correlation and laboratory test results.

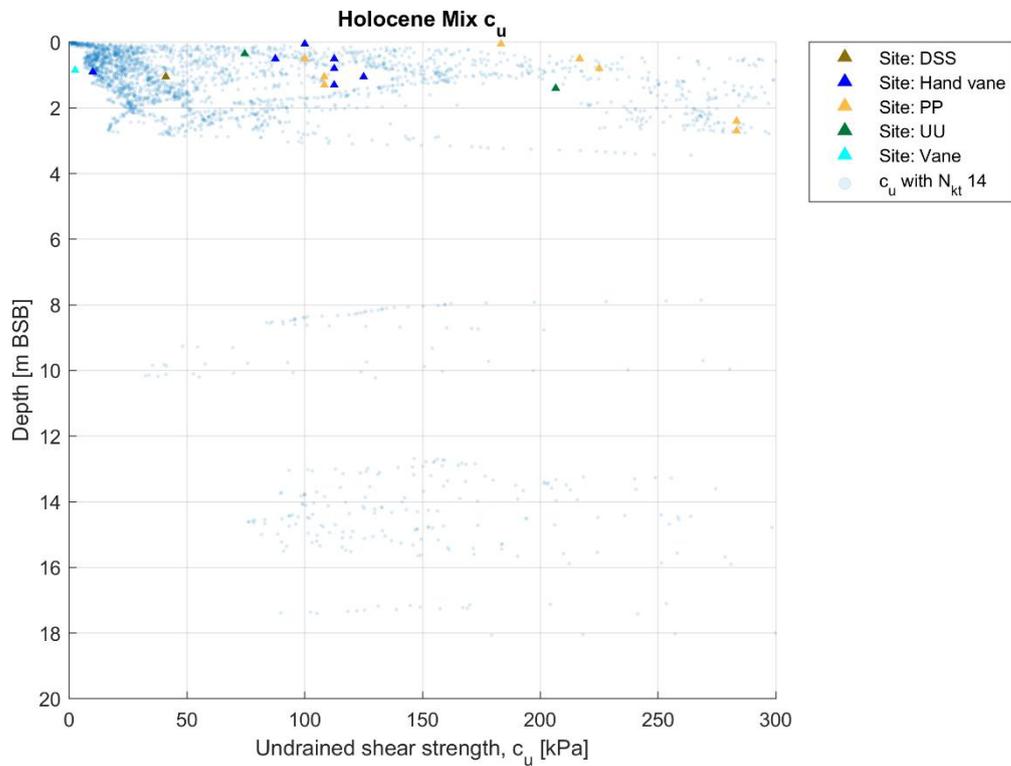


Figure D-50 Range of c_u for geotechnical unit Holocene mix using CPT correlation and laboratory test results.

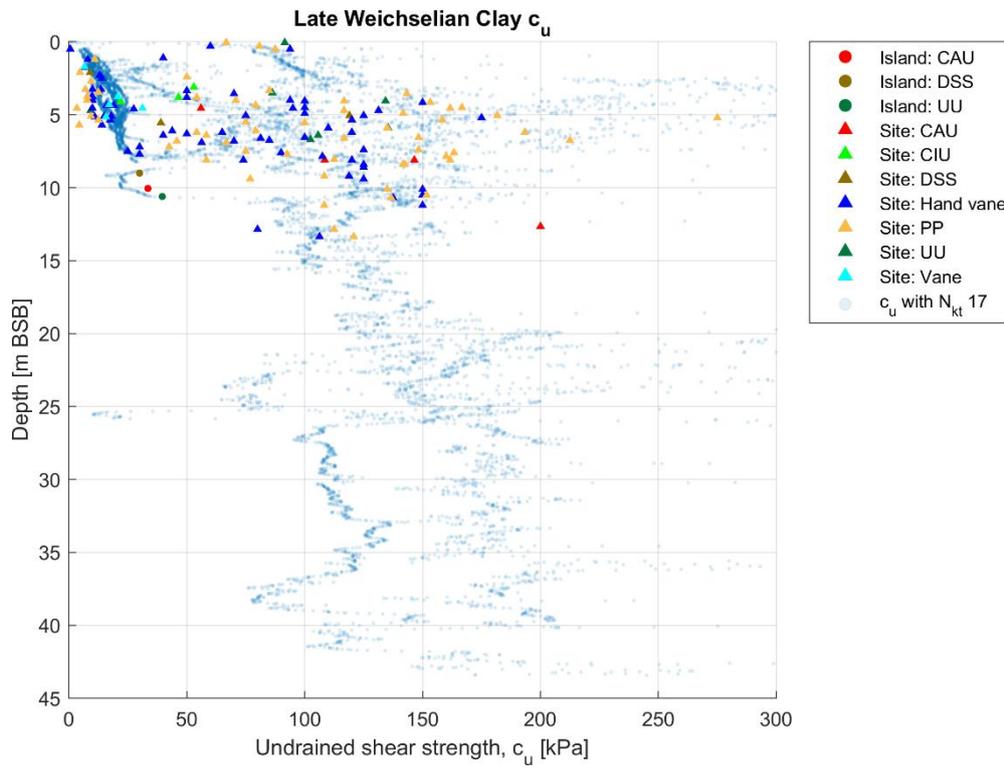


Figure D-51 Range of c_u for geotechnical unit Late Weichselian clay using CPT correlation and laboratory test results.

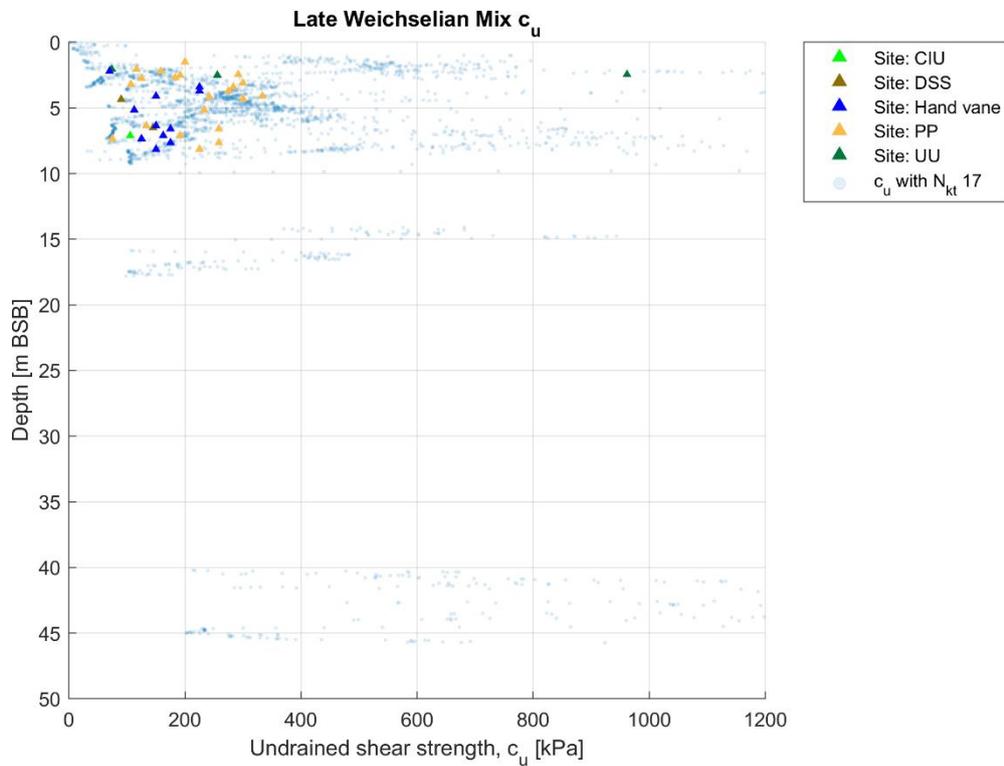


Figure D-52 Range of c_u for geotechnical unit Late Weichselian mix using CPT correlation and laboratory test results.

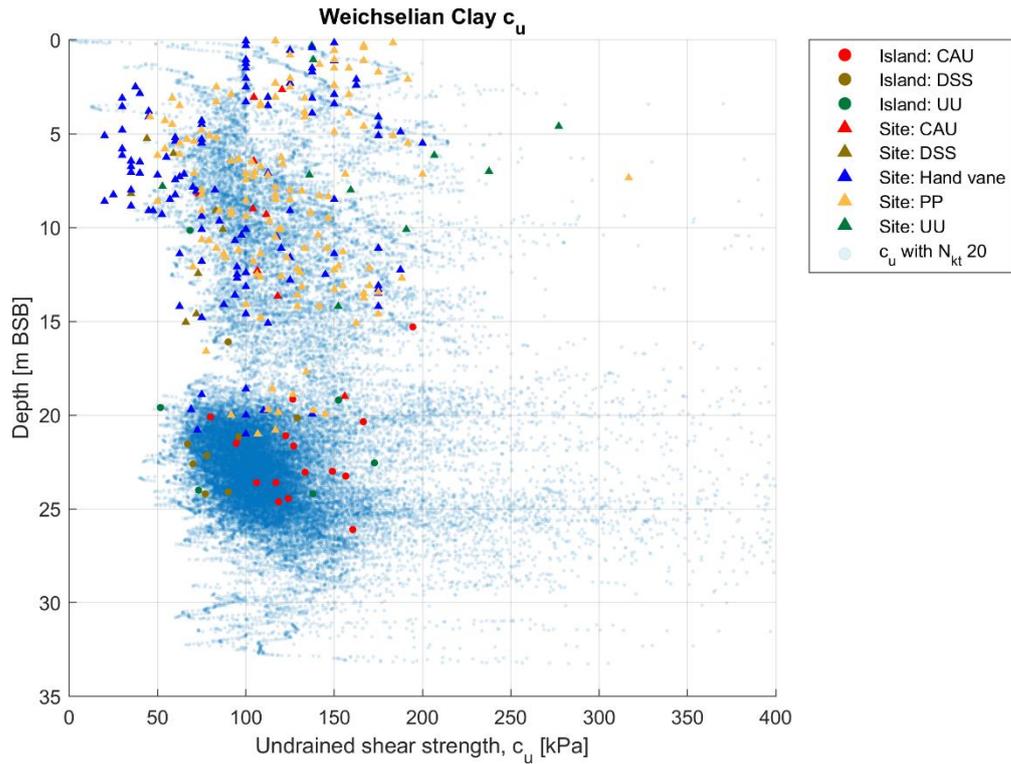


Figure D-53 Range of c_u for geotechnical unit Weichselian clay using CPT correlation and laboratory test results.

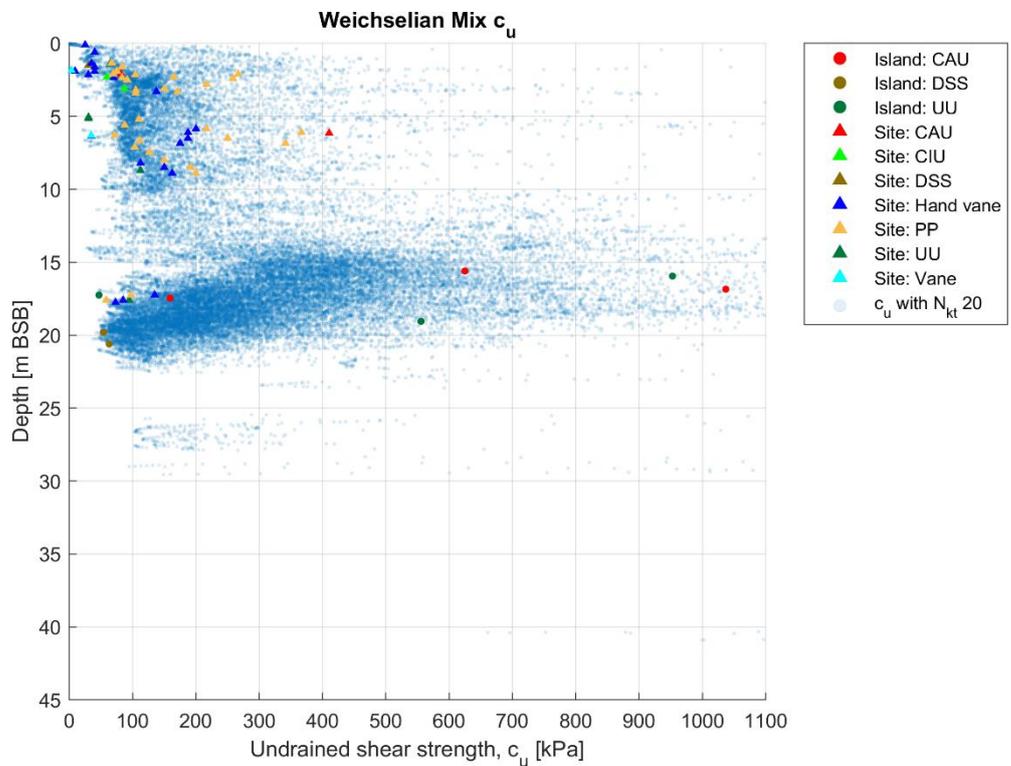


Figure D-54 Range of c_u for geotechnical unit Weichselian mix using CPT correlation and laboratory test results.

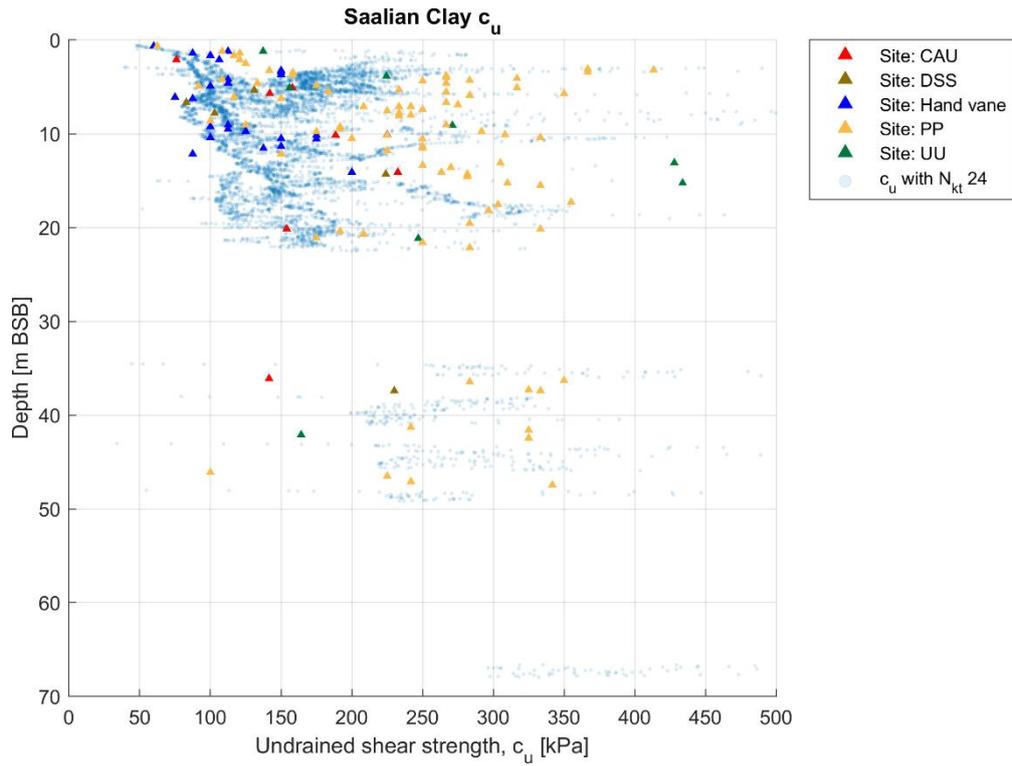


Figure D-55 Range of c_u for geotechnical unit Saalian clay using CPT correlation and laboratory test results.

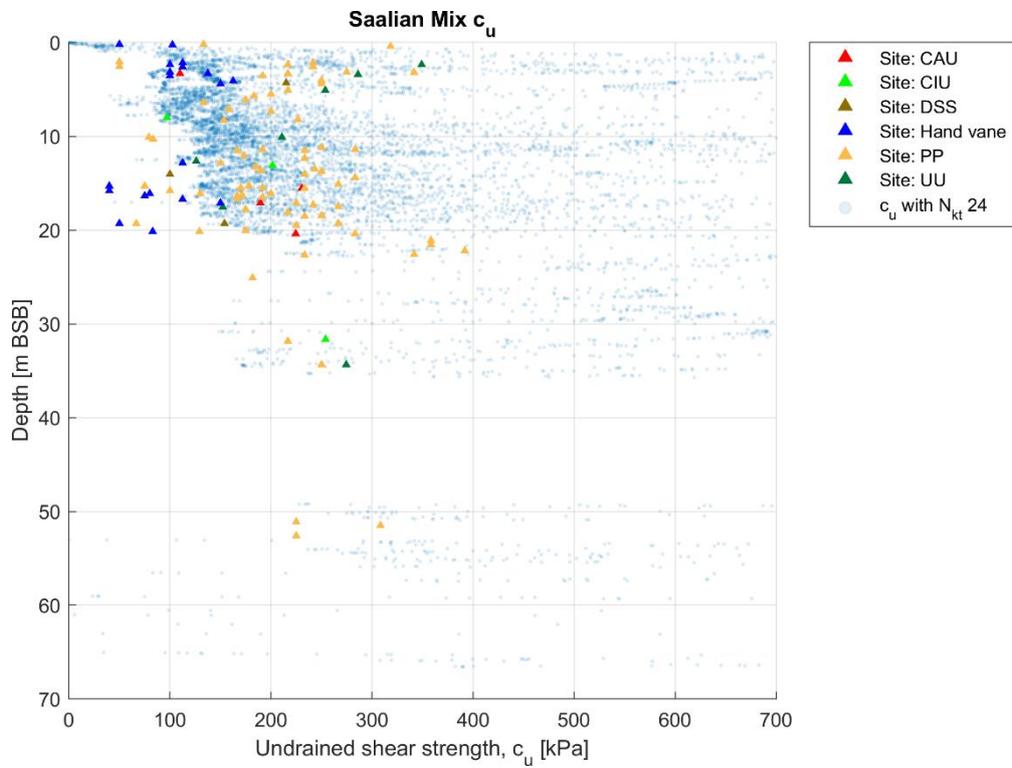


Figure D-56 Range of c_u for geotechnical unit Saalian mix using CPT correlation and laboratory test results.

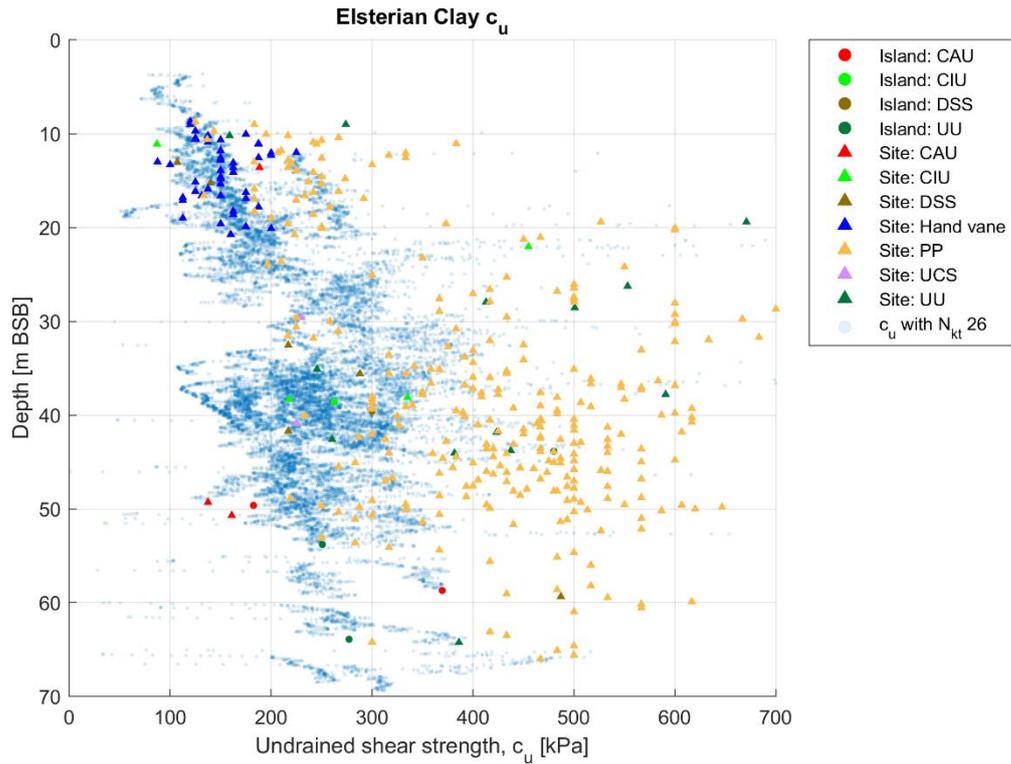


Figure D-57 Range of c_u for geotechnical unit Elsterian clay using CPT correlation and laboratory test results.

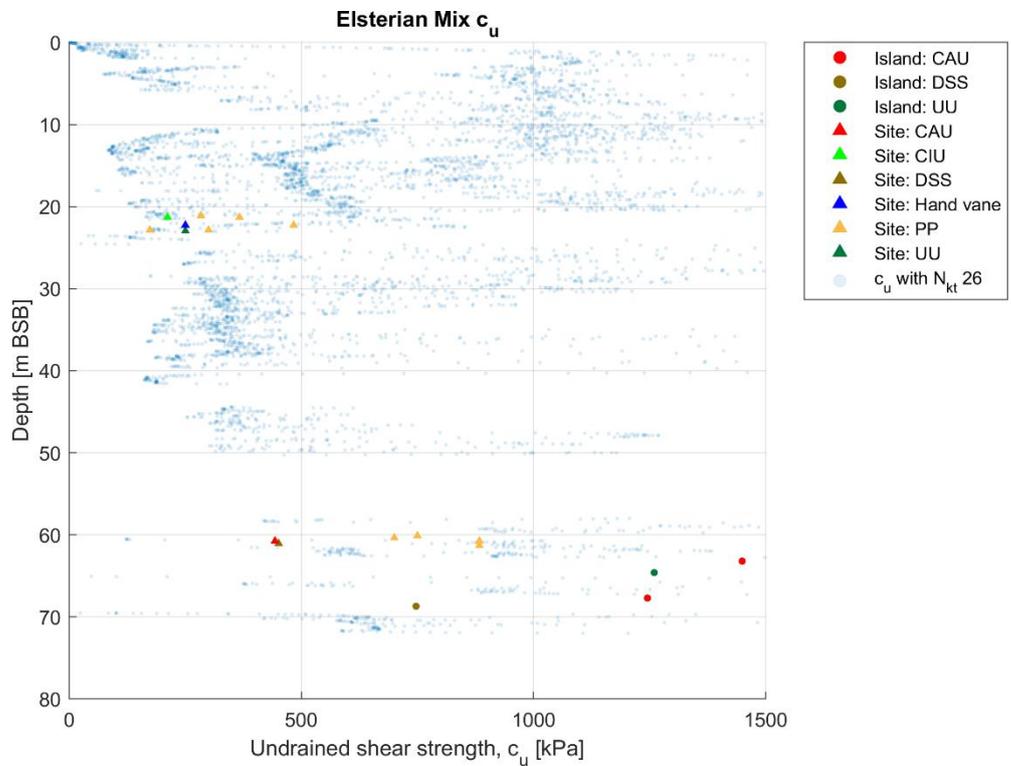


Figure D-58 Range of c_u for geotechnical unit Elsterian mix using CPT correlation and laboratory test results.

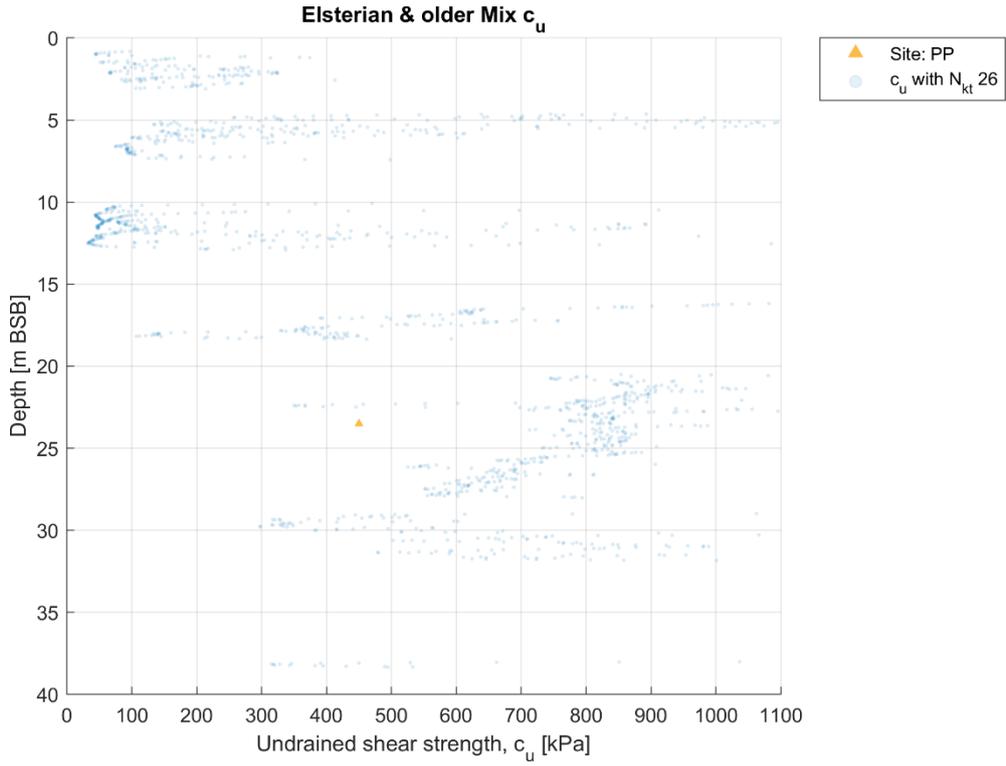


Figure D-59 Range of c_u for geotechnical unit Elsterian & older mix using CPT correlation and laboratory test results.

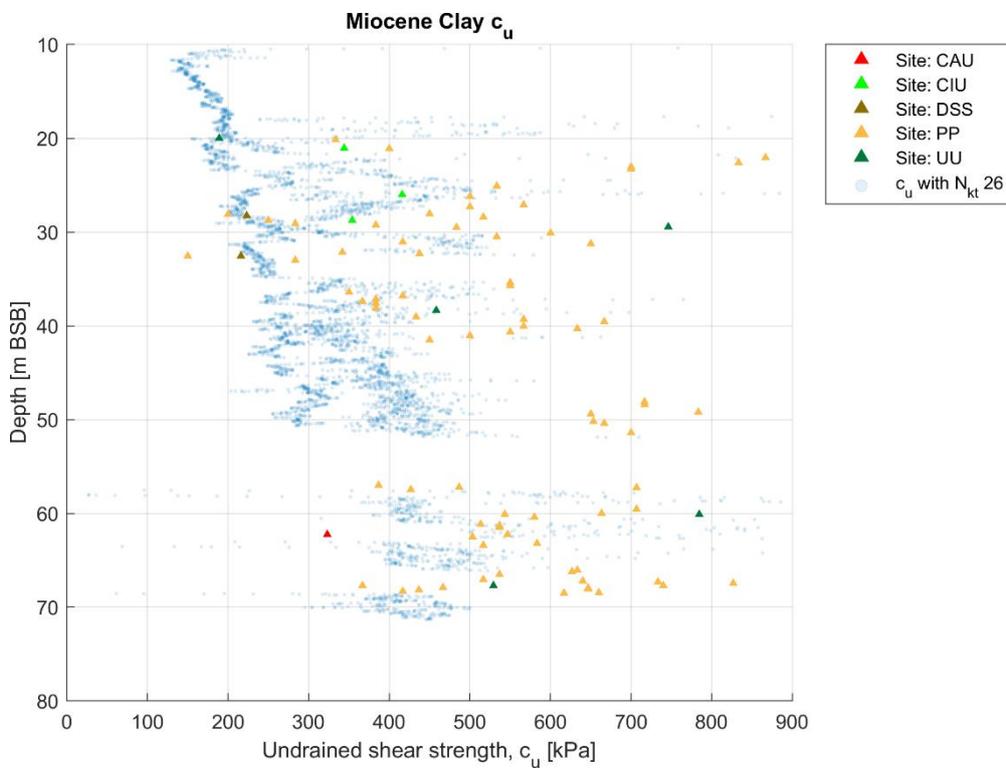


Figure D-60 Range of c_u for geotechnical unit Miocene clay using CPT correlation and laboratory test results.

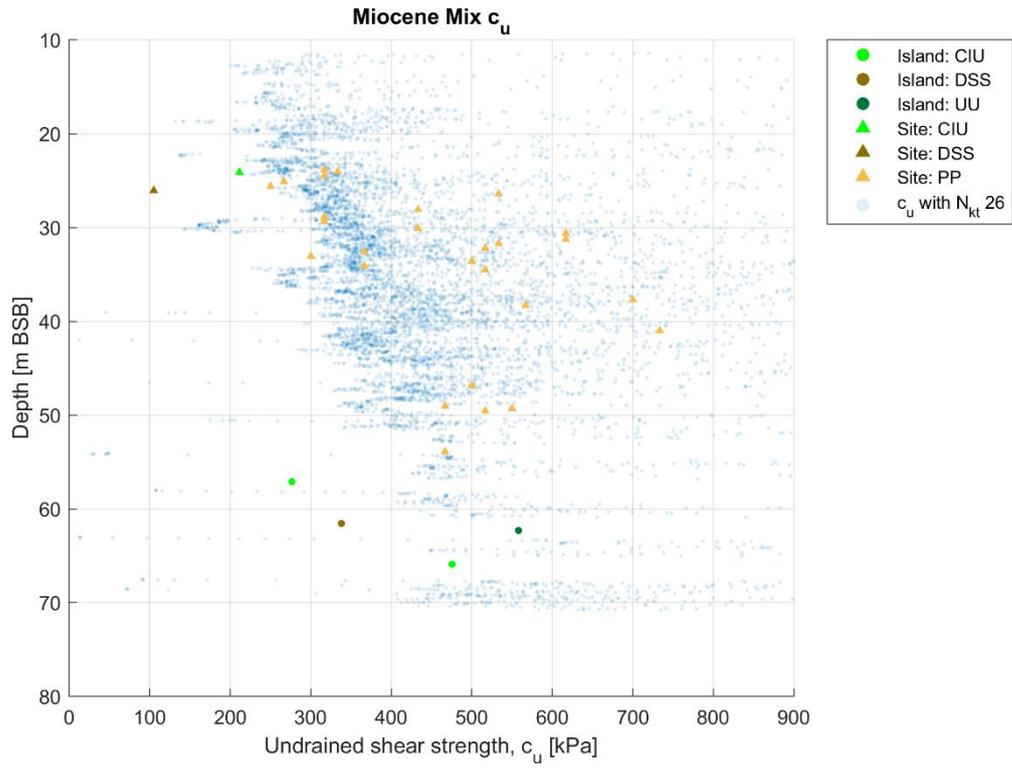


Figure D-61 Range of c_u for geotechnical unit Miocene mix using CPT correlation and laboratory test results.

D.5 Small-strain shear modulus

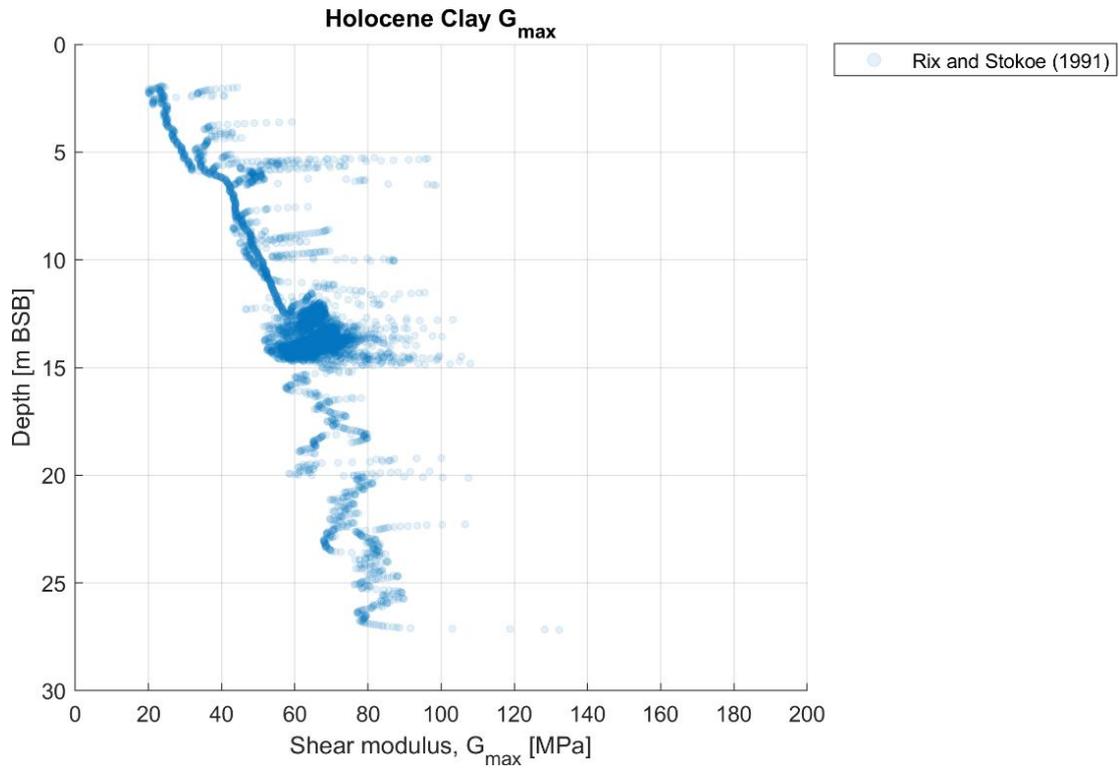


Figure D-62 Range of G_{max} for geotechnical unit Holocene clay using CPT correlation, SCPT, P-S logging and laboratory results.

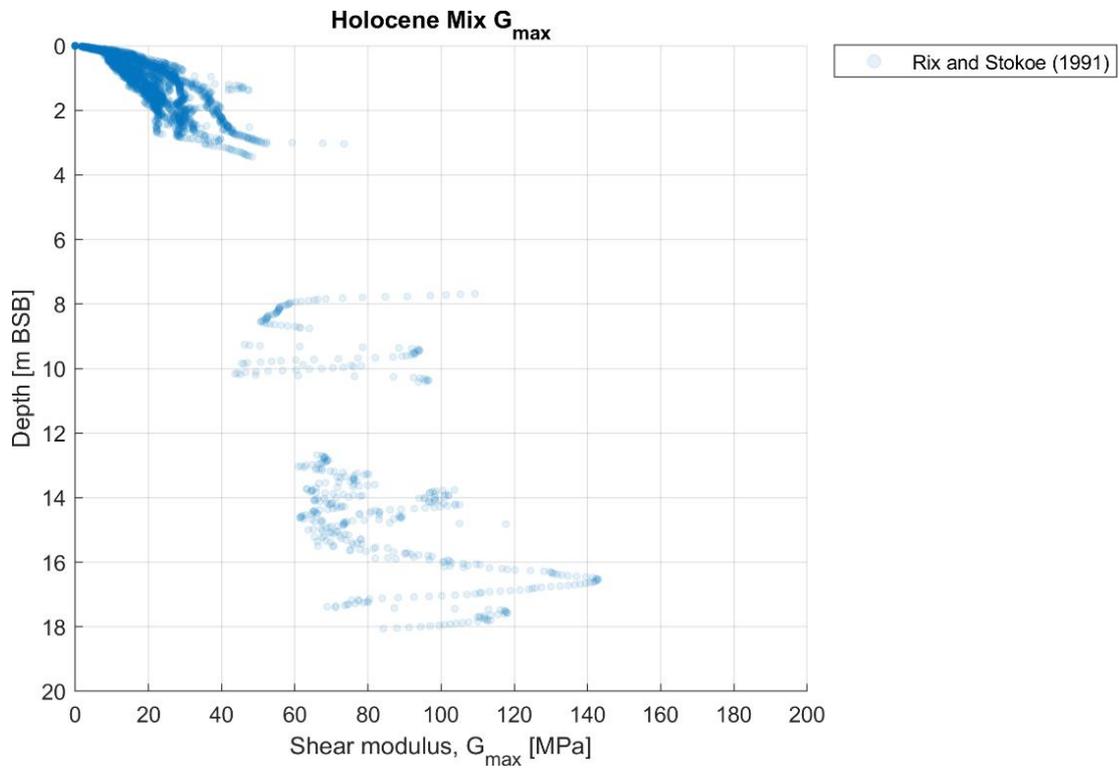


Figure D-63 Range of G_{max} for geotechnical unit Holocene mix using CPT correlation, SCPT, P-S logging and laboratory results.

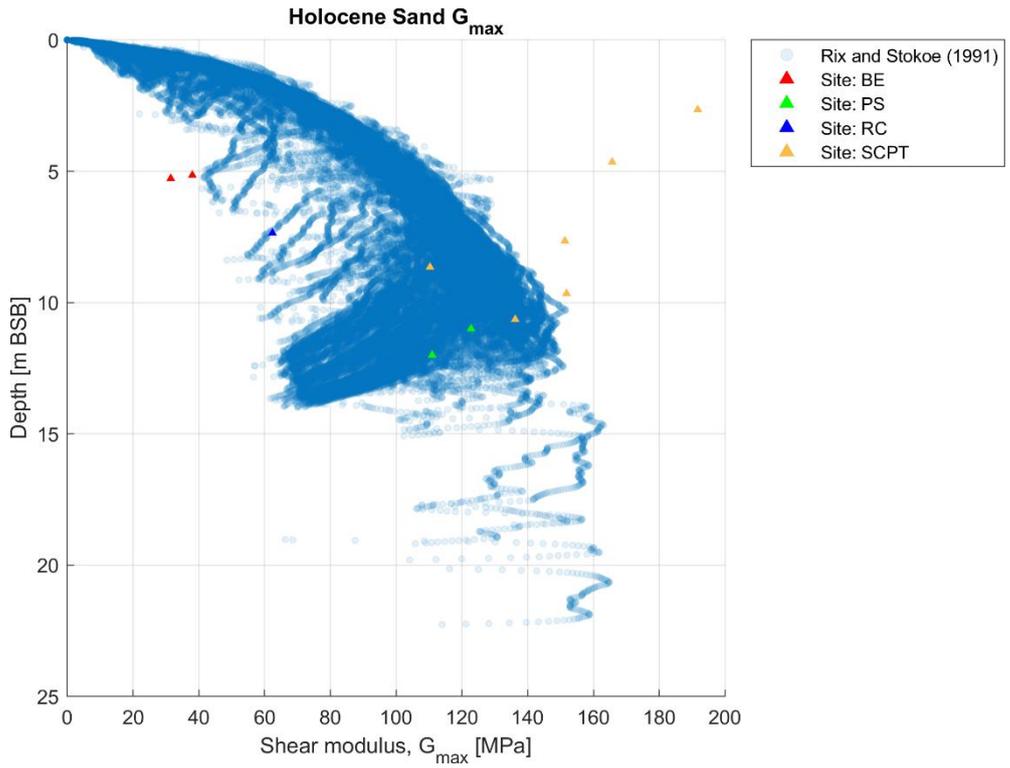


Figure D-64 Range of G_{max} for geotechnical unit Holocene sand using CPT correlation, SCPT, P-S logging and laboratory results.

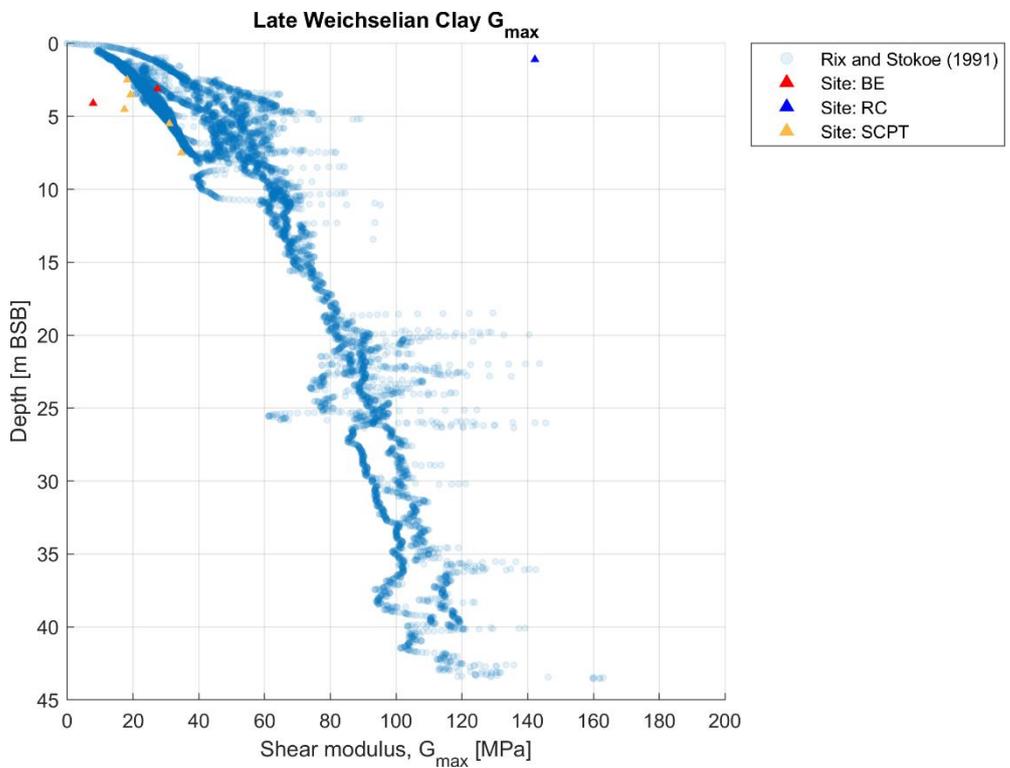


Figure D-65 Range of G_{max} for geotechnical unit Late Weichselian clay using CPT correlation, SCPT, P-S logging and laboratory results.

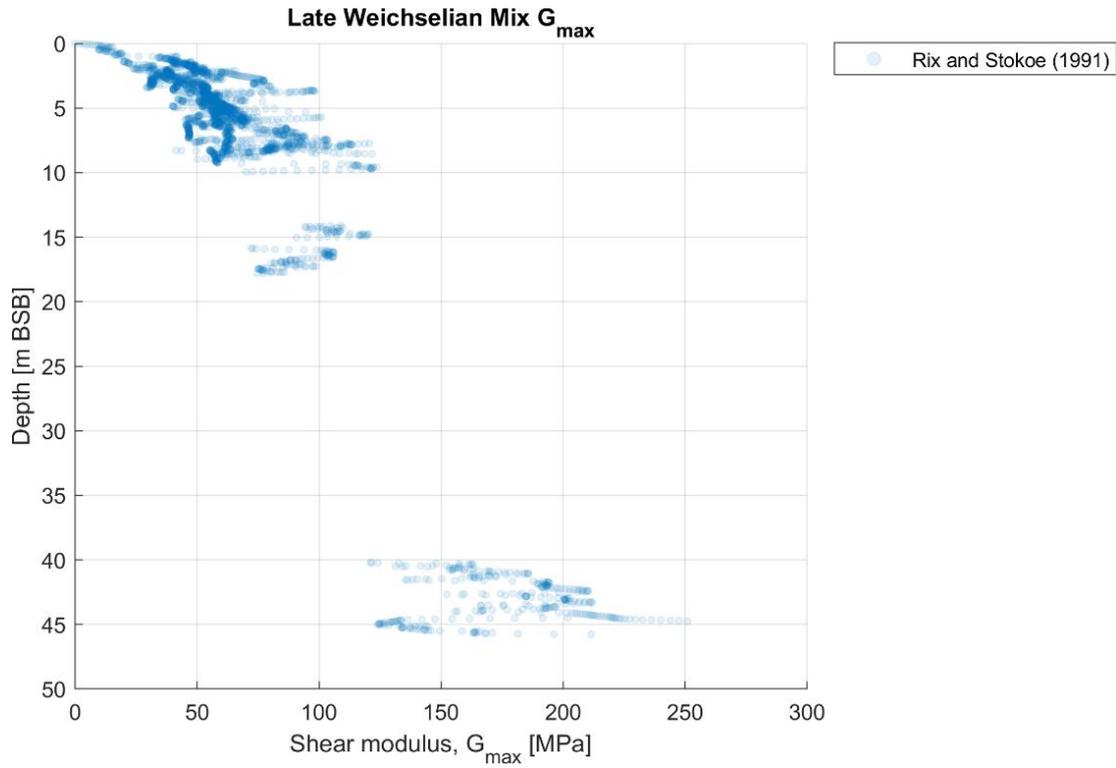


Figure D-66 Range of G_{max} for geotechnical unit Late Weichselian mix using CPT correlation, SCPT, P-S logging and laboratory results.

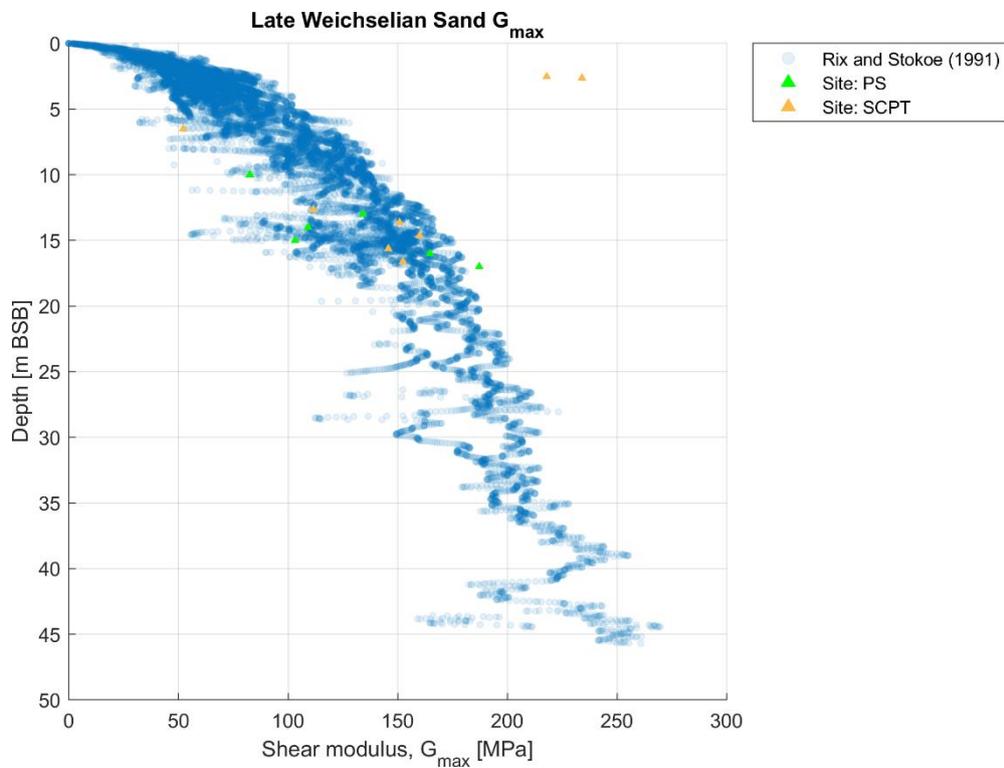


Figure D-67 Range of G_{max} for geotechnical unit Late Weichselian sand using CPT correlation, SCPT, P-S logging and laboratory results.

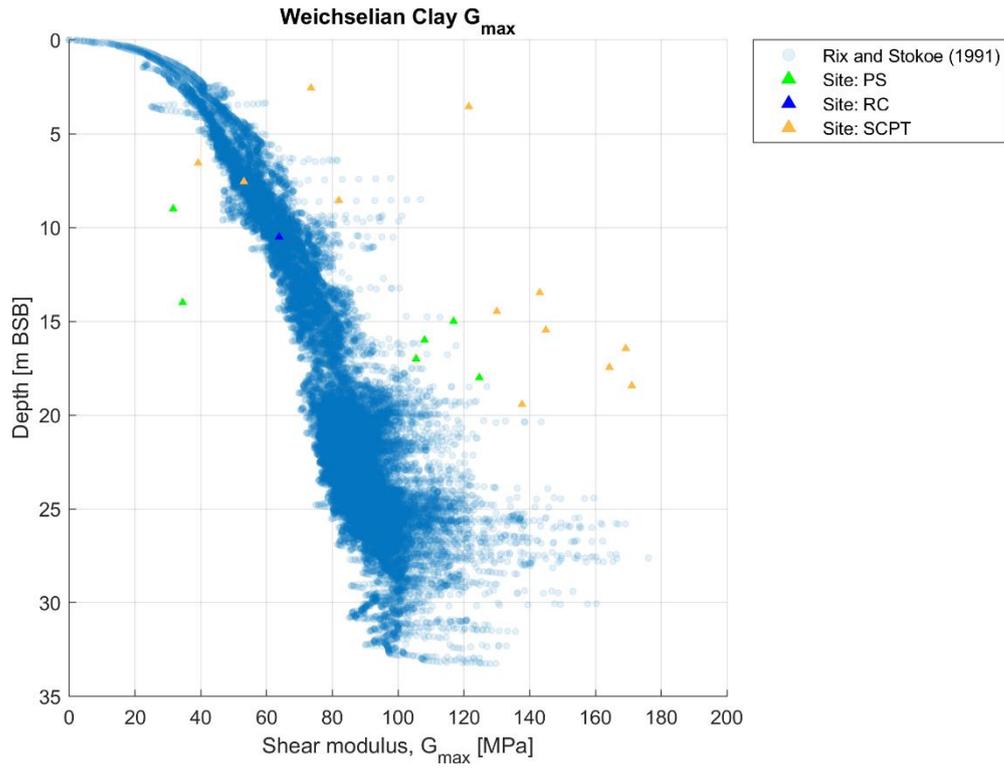


Figure D-68 Range of G_{max} for geotechnical unit Weichselian clay using CPT correlation, SCPT, P-S logging and laboratory results.

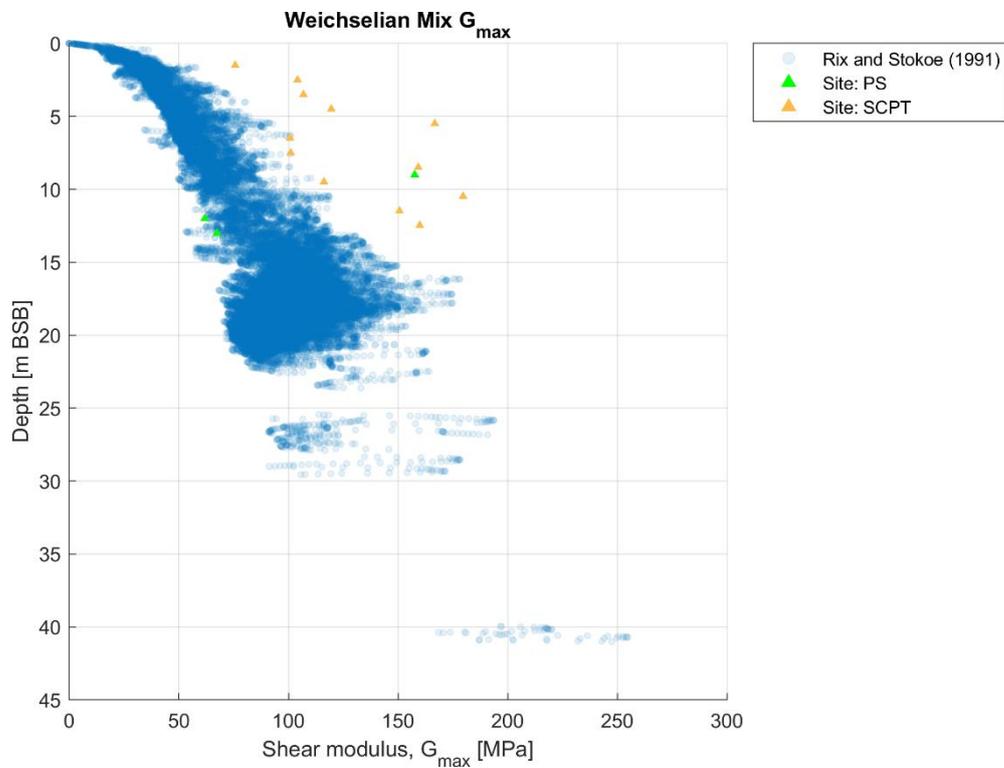


Figure D-69 Range of G_{max} for geotechnical unit Weichselian mix using CPT correlation, SCPT, P-S logging and laboratory results.

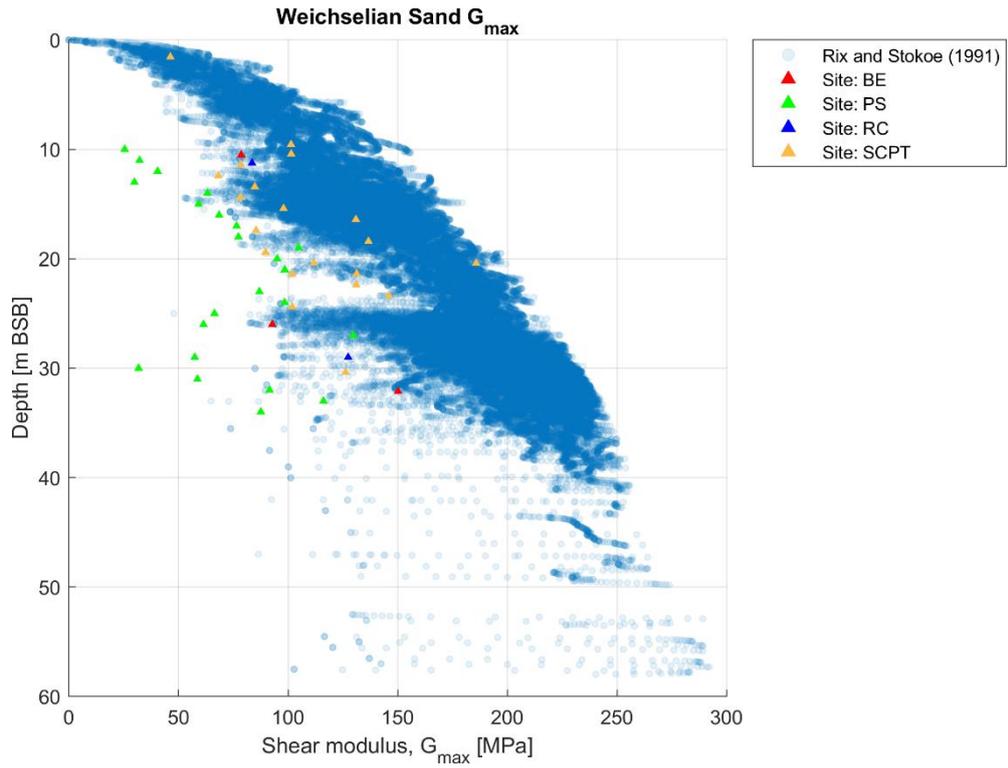


Figure D-70 Range of G_{max} for geotechnical unit Weichselian sand using CPT correlation, SCPT, P-S logging and laboratory results.

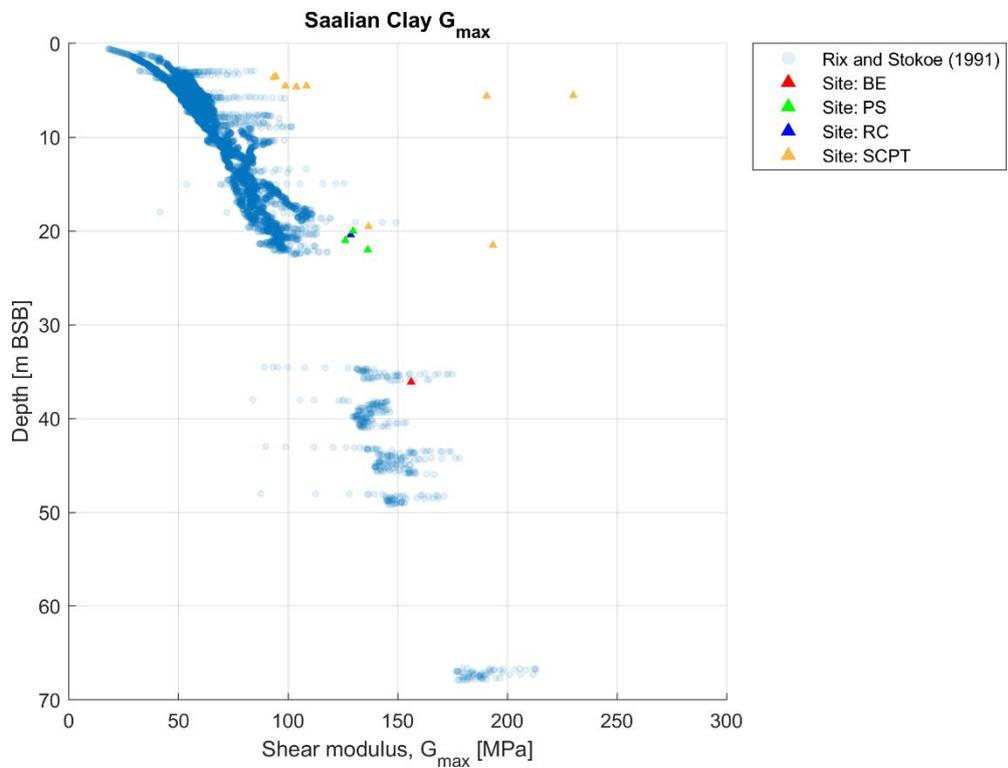


Figure D-71 Range of G_{max} for geotechnical unit Saalian clay using CPT correlation, SCPT, P-S logging and laboratory results.

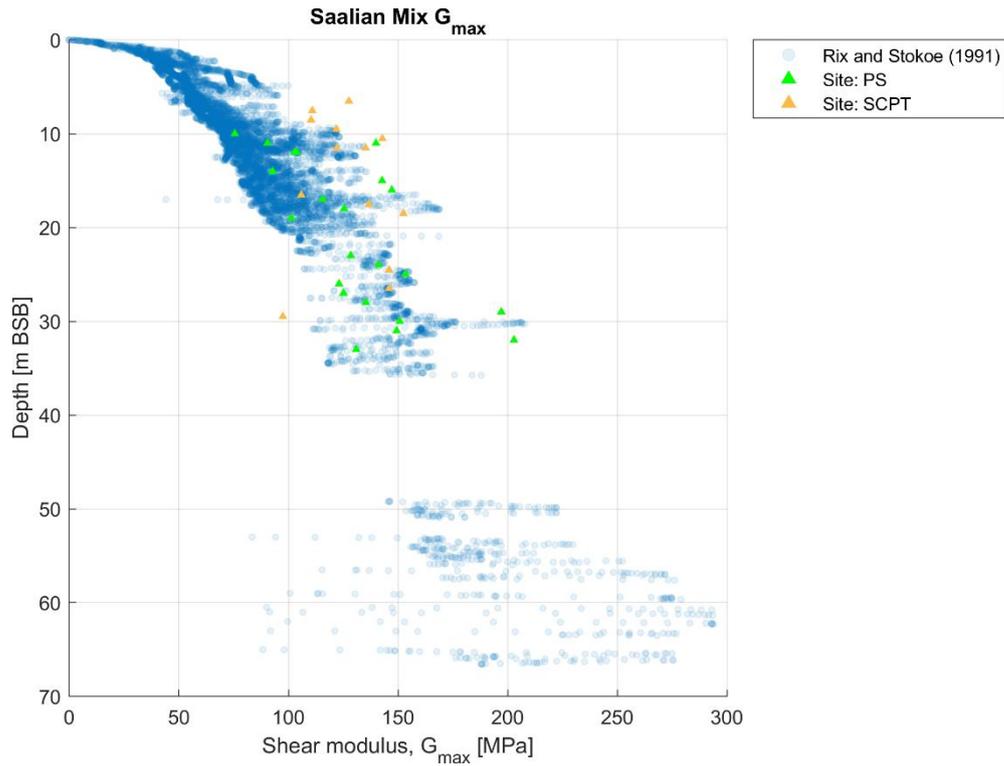


Figure D-72 Range of G_{max} for geotechnical unit Saalian mix using CPT correlation, SCPT, P-S logging and laboratory results.

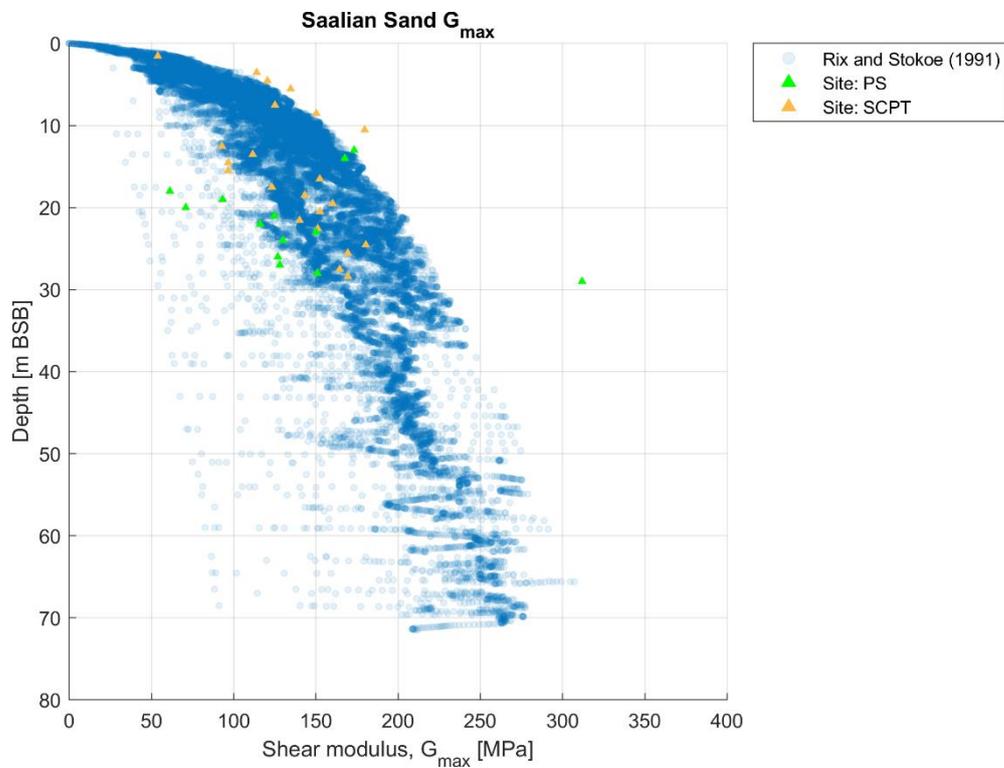


Figure D-73 Range of G_{max} for geotechnical unit Saalian sand using CPT correlation, SCPT, P-S logging and laboratory results.

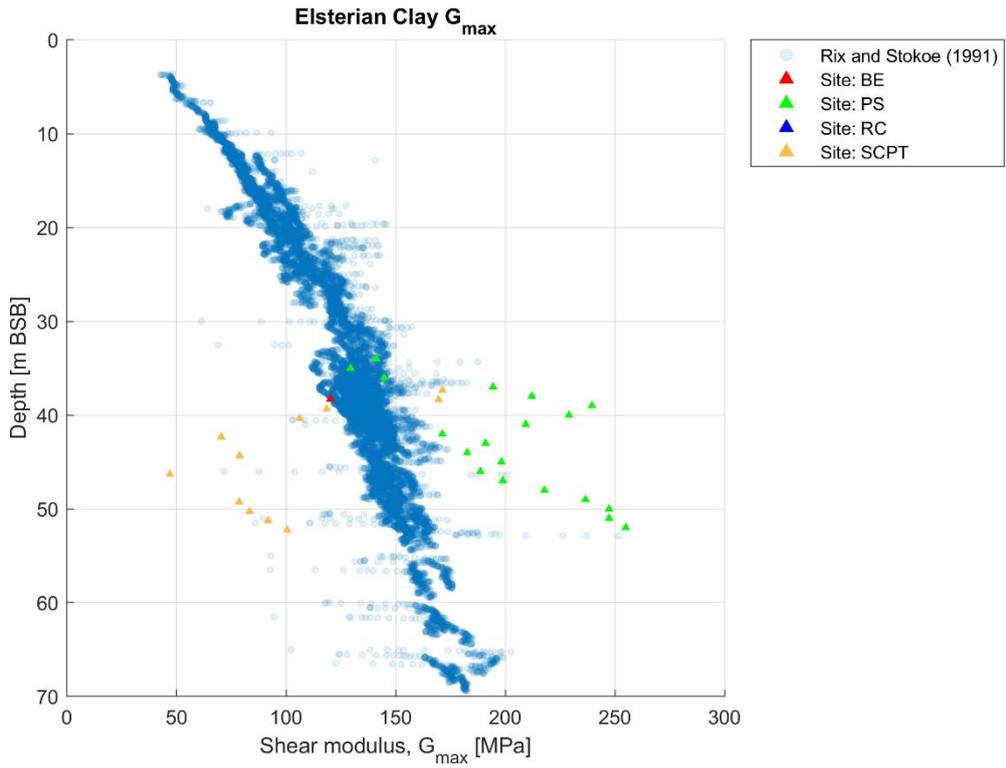


Figure D-74 Range of G_{max} for geotechnical unit Elsterian clay using CPT correlation, SCPT, P-S logging and laboratory results.

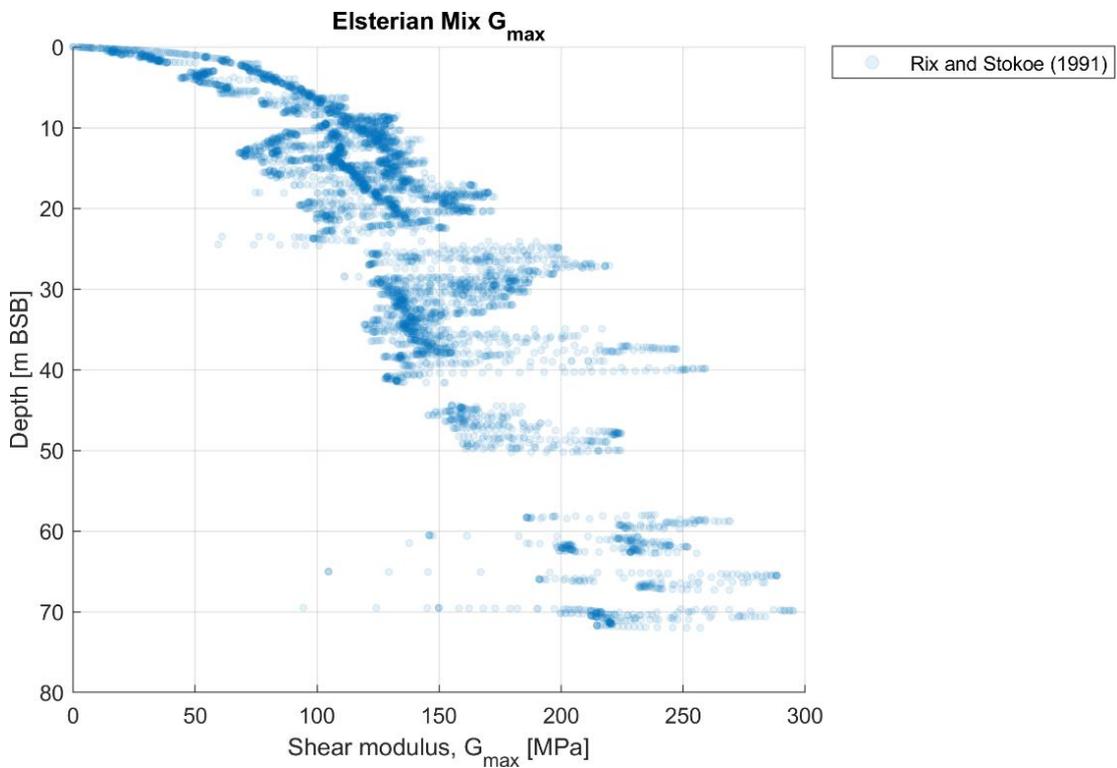


Figure D-75 Range of G_{max} for geotechnical unit Elsterian mix using CPT correlation, SCPT, P-S logging and laboratory results.

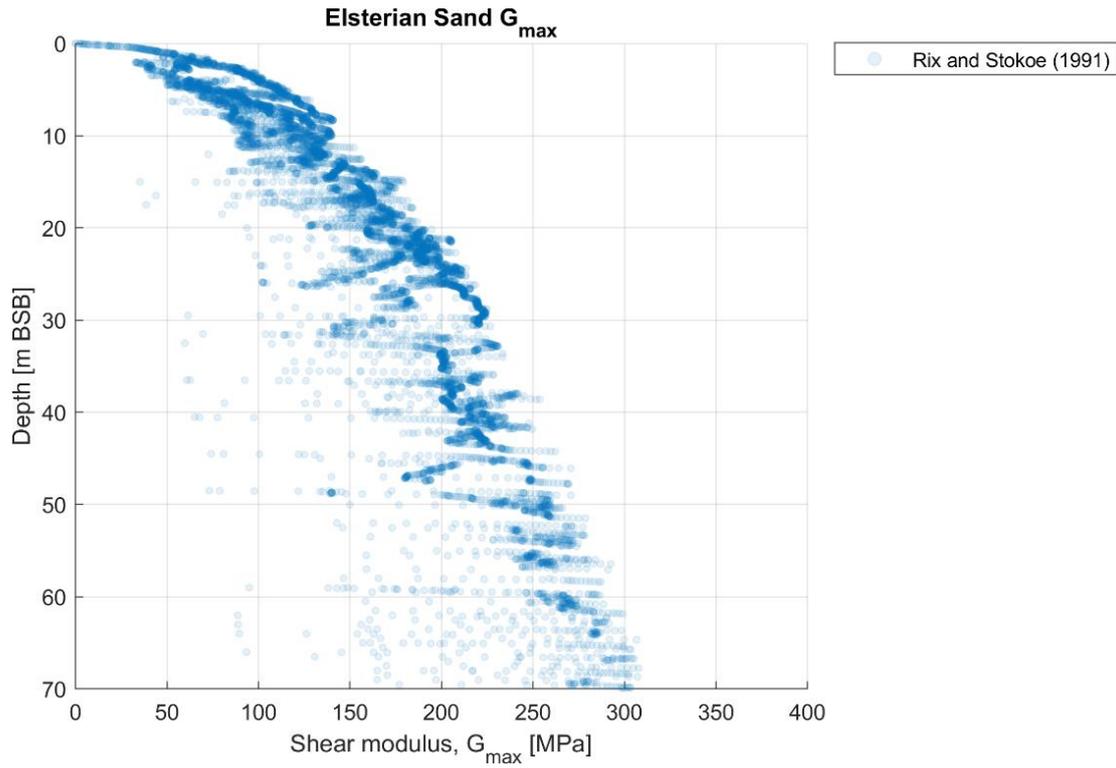


Figure D-76 Range of G_{max} for geotechnical unit Elsterian sand using CPT correlation, SCPT, P-S logging and laboratory results.

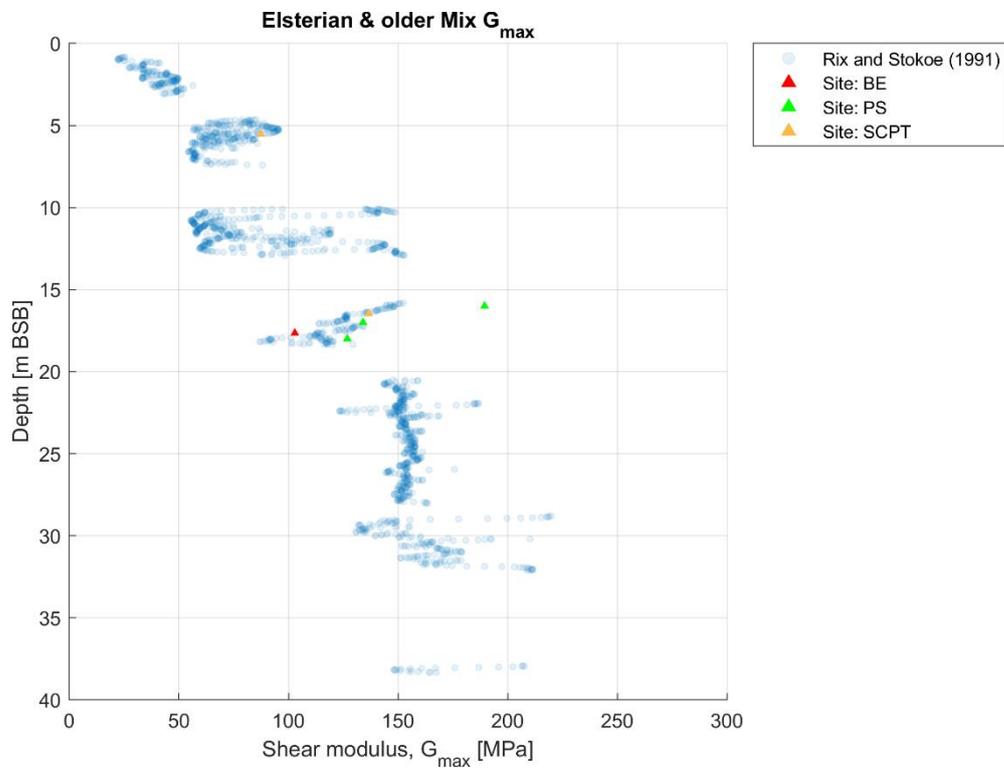


Figure D-77 Range of G_{max} for geotechnical unit Elsterian & older mix using CPT correlation, SCPT, P-S logging and laboratory results.

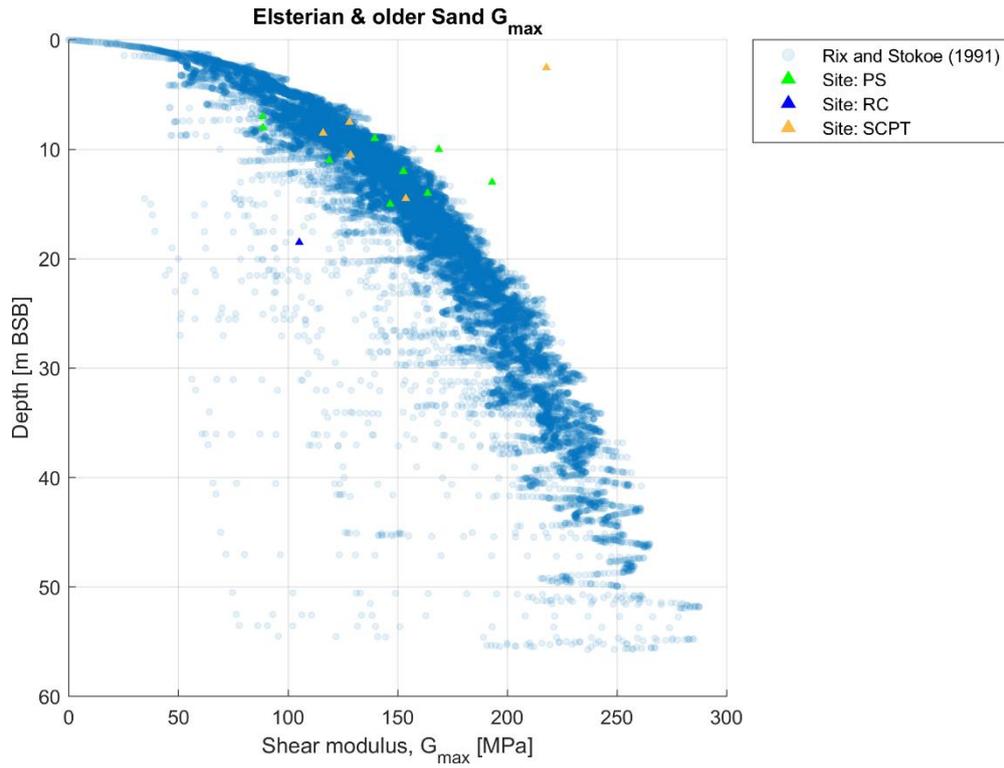


Figure D-78 Range of G_{max} for geotechnical unit Elsterian & older sand using CPT correlation, SCPT, P-S logging and laboratory results.

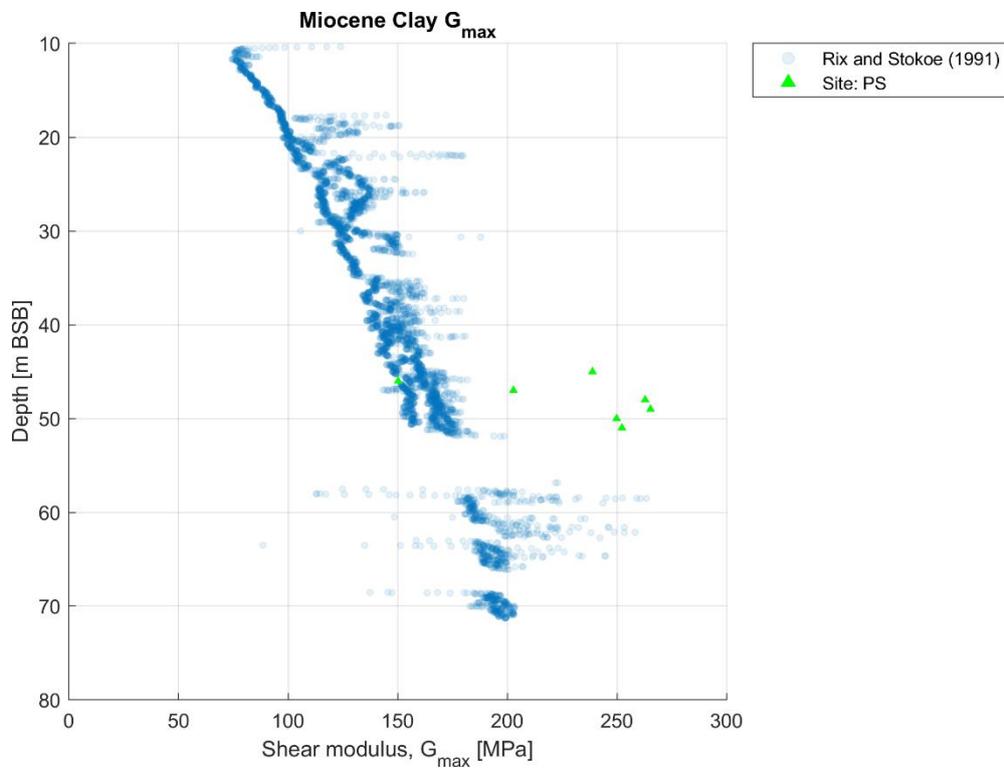


Figure D-79 Range of G_{max} for geotechnical unit Miocene clay using CPT correlation, SCPT, P-S logging and laboratory results.

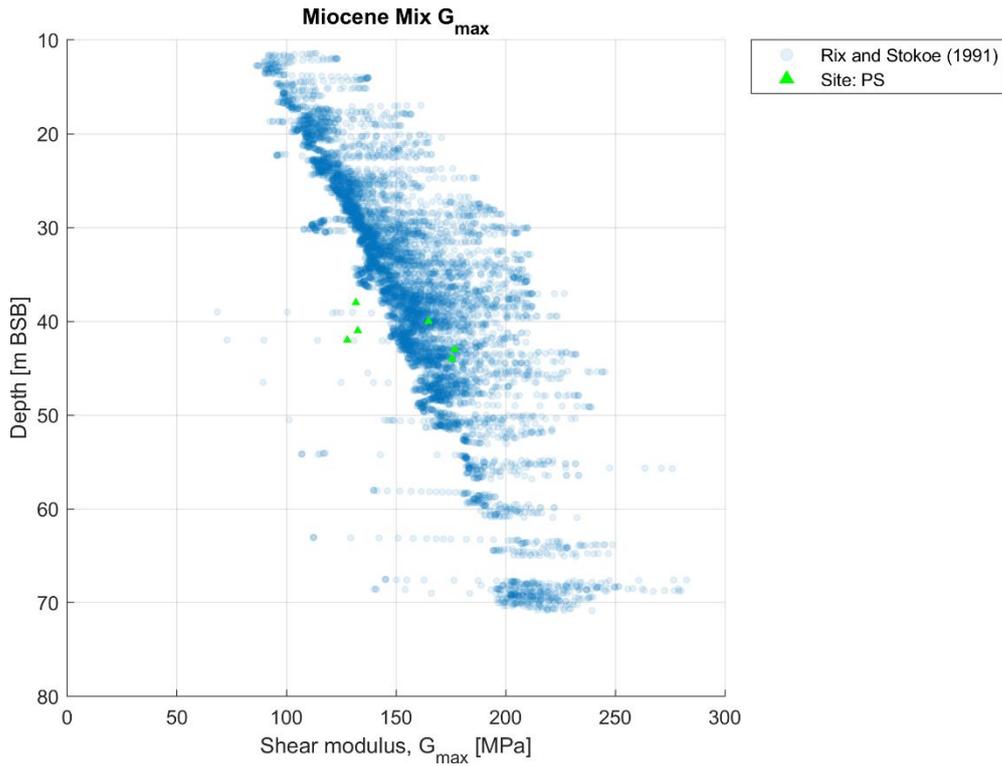


Figure D-80 Range of G_{max} for geotechnical unit Miocene mix using CPT correlation, SCPT, P-S logging and laboratory results.

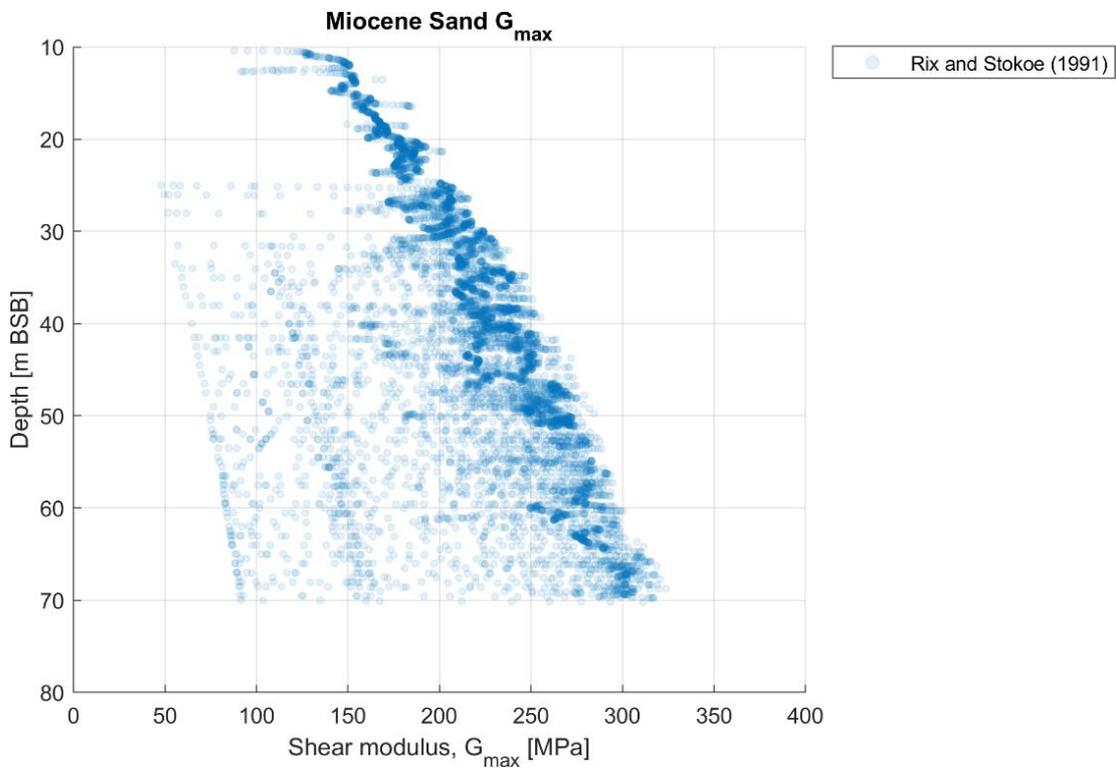


Figure D-81 Range of G_{max} for geotechnical unit Miocene sand using CPT correlation, SCPT, P-S logging and laboratory results.