



	Unit	Base (cm)	Top (cm)	Description
Main units	I	714.8	399	brown or grayish brown clay gyttja banded with black layers
	II	399	354	dark gray laminated clay
	III	354	0	dark gray diamictic sediment of varying grain size
Subunits	Ia	714.8	681.8	very dark gray diamicton; harder substrate during coring
	Ib	681.8	602.8	dark gray diamicton, slightly lighter than Ia
	Ic	602.8	583.3	more fine-grained sediment with some laminations
	Id	583.3	415.6	dark gray diamicton
	Ie	415.6	399	more fine-grained sediment with some ca. 5 mm thick laminae
	II	399	354	dark gray laminated clay (laminae of ca. 1 mm)
	IIIa	354	190	grayish brown clay gyttja banded with black layers; the transition to unit IIIb is gradual
	IIIb	190	43	brown clay gyttja banded with black layers
	IIIc	43	0	dark brown clay gyttja banded with black layers

**Figure S1.** Schematic overview of the sediment cores from Lake Storsjön. The dark grey areas mark the parts of the cores included in the composite sediment profile (STO14) as shown on the photograph. Solid red lines represent the marker layers that were identified to align overlapping cores, dashed red lines link the corresponding markers. Green squares indicate the depths where radiocarbon samples were taken. The table gives a short description of the defined lithological units.