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Supplement of

A new dataset of soil carbon and nitrogen stocks and profiles from an instrumented Greenlandic fen designed to evaluate land-surface models

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Table S1. Coordinates of peat cores along the first transect

Peat core of transect 1 (m)	0	5	10	15	20	25	30	35
Longitude	-51.3862	-51.3862	-51.3862	-51.3862	-51.3862	-51.3862	-51.3862	-51.3862
Latitude	64.1311	64.1311	64.1310	64.1310	64.1309	64.1309	64.1308	64.1308

Table S2. Coordinates of peat cores along the second transect

Peat core of transect 2 (m)	0	10	20	30	40	50	60	70	80
Longitude	-51.3862	-51.3863	-51.3864	-51.3865	-51.3867	-51.3868	-51.3869	-51.3870	-51.386271
Latitude	64.1309	64.1309	64.13098	64.1307	64.1307	64.1306	64.1305	64.1305	64.1304

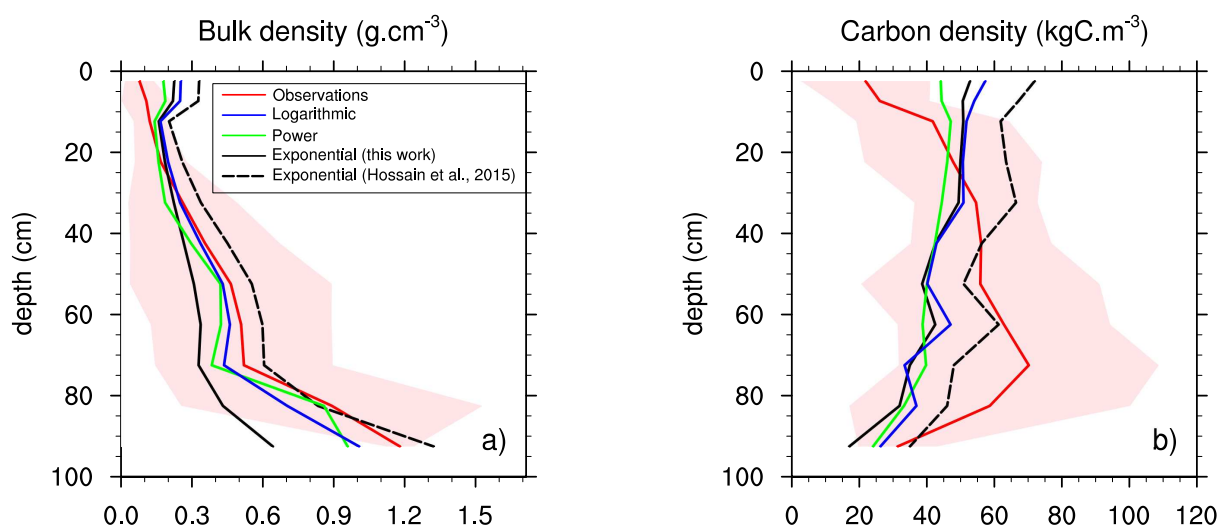


Figure S1. Mean profiles of (a) Bulk density and (b) Carbon density. Red lines represent mean observed values, shaded area the 95% confidence interval. Dashed black lines represents profiles inferred from the exponential relationship of (?). Plan black, green and blue lines represents profiles inferred from the exponential, power and logarithmic relationships presented in Table 5.

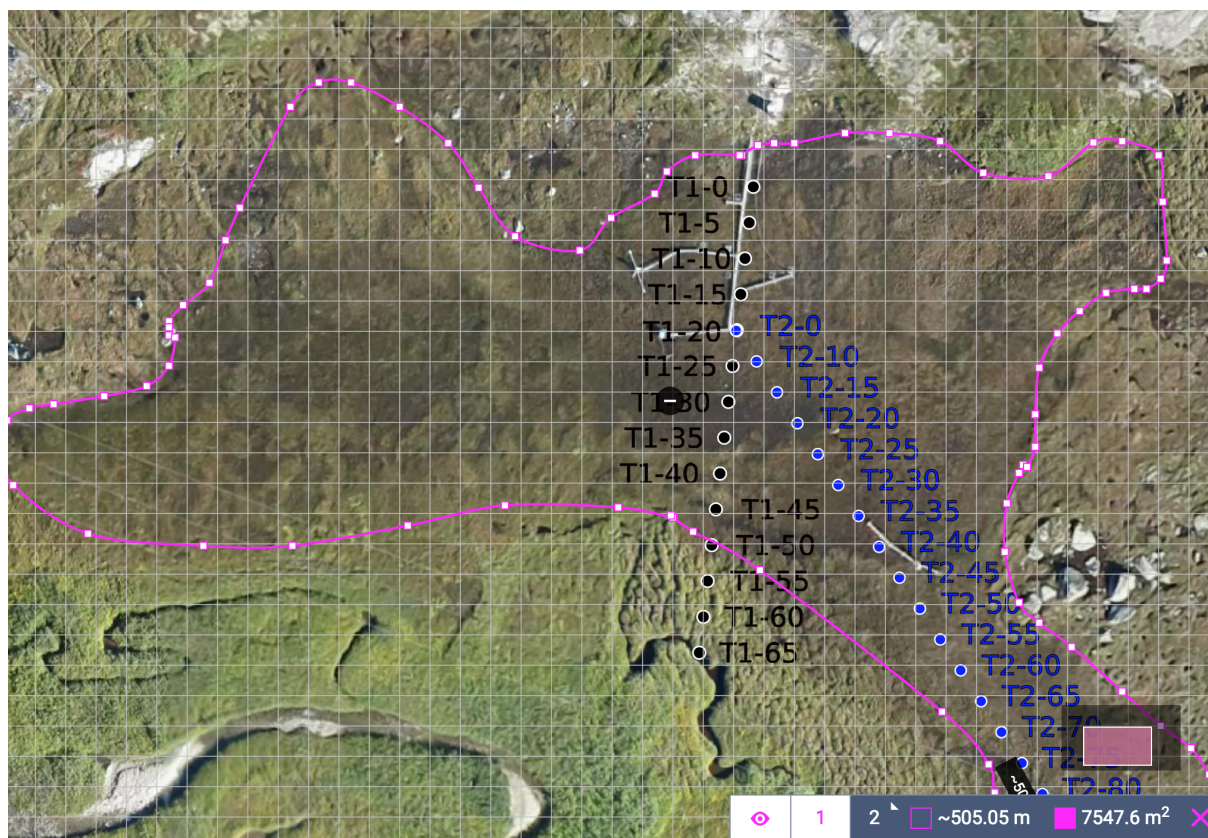


Figure S2. Approximation of the Nuuk fen area (done with <https://www.sketchandcalc.com>)