



Supplement of

Implications of surface flooding on airborne estimates of snow depth on sea ice

Anja Rösel et al.

Correspondence to: Anja Rösel (anja.roesel@dlr.de)

The copyright of individual parts of the supplement might differ from the article licence.

Drill-hole label	Ice thickness	Snow depth	Freeboard	Flooded
D0	1.76	0.34	0.13	no
D1	1.48	0.49	0.01	no
D2	0.78	0.30	0.02	no
D3	1.03	0.57	-0.03	no
D4	1.34	0.38	0.03	no
D5	1.65	0.83	-0.11	yes
D6	1.35	0.76	-0.09	yes
D7	1.36	0.28	0.07	no
D8	1.15	0.51	-0.03	yes
D9	1.96	0.51	0.07	no
Mean (Stddev)	1.39 (0.35)	0.50 (0.19)	0.01 (0.07)	

2

3 **Table S1.** Measurements acquired at 10 drill-hole sites located randomly across the 2-D survey field site. All values are given
4 in meters.

5

6