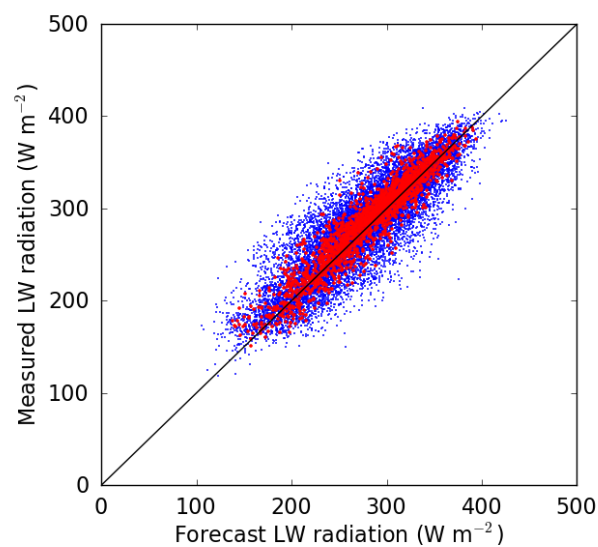


# A 7-year dataset for driving and evaluating snow models at an arctic site (Sodankylä, Finland)

Richard Essery, Anna Kontu, Juha Lemmetyinen, Marie Dumont and Cécile B Ménard

## Supplementary figures

**Figure S1.** Scatter plot and statistics comparing in situ measurements and ERA-Interim forecasts of longwave radiation averaged over periods of 3 hours (blue dots) and a day (red dots).



Period	Bias (W m <sup>-2</sup> )	Root mean square error (W m <sup>-2</sup> )	Correlation
3 hours	-5.1	26.7	0.88
24 hours	-5.1	16.9	0.94

**Figure S2.** Profiles of snow density from manual measurements (black dots), dielectric measurements (white dots) and Crocus simulations (lines).

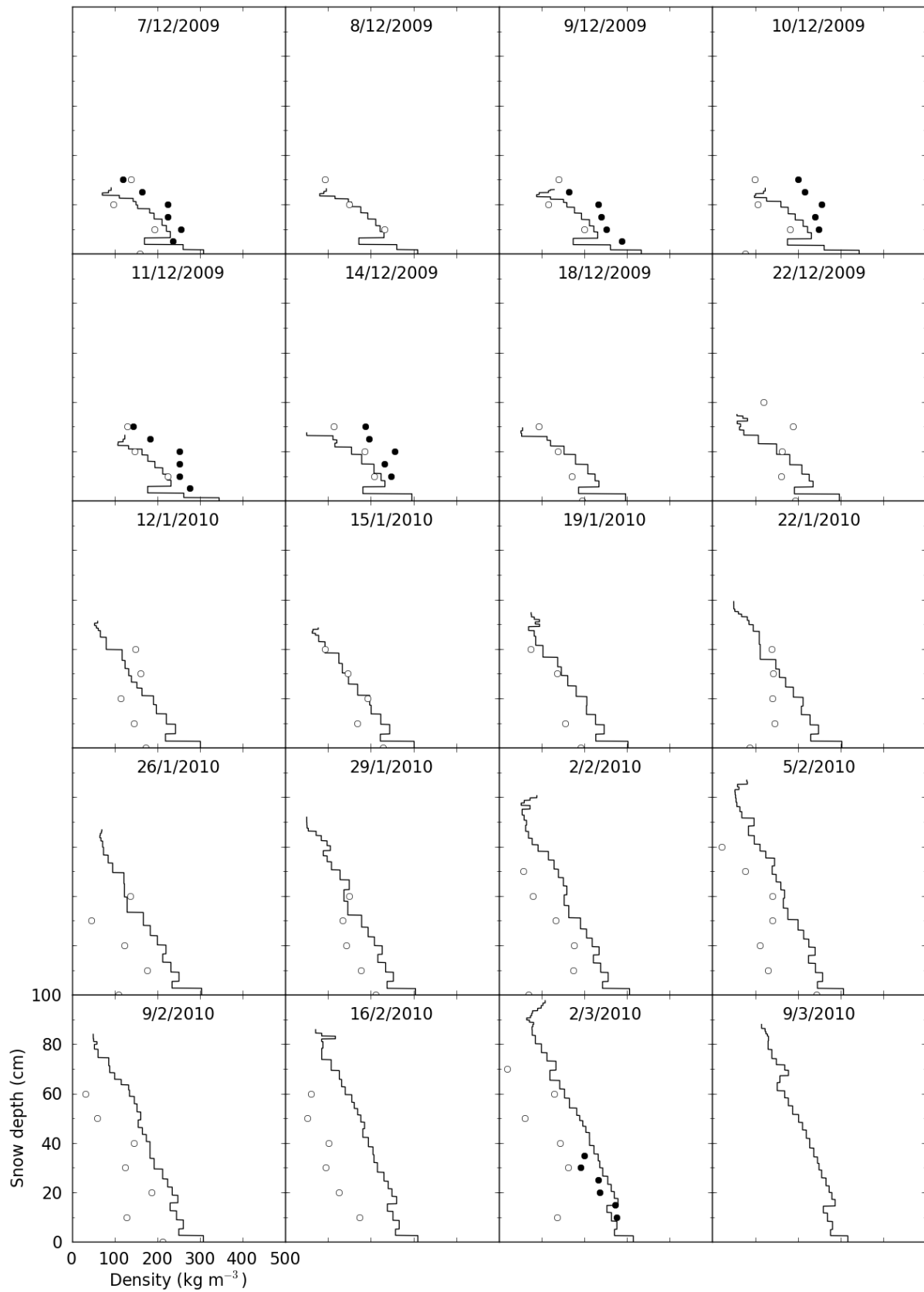


Figure S2. Continued

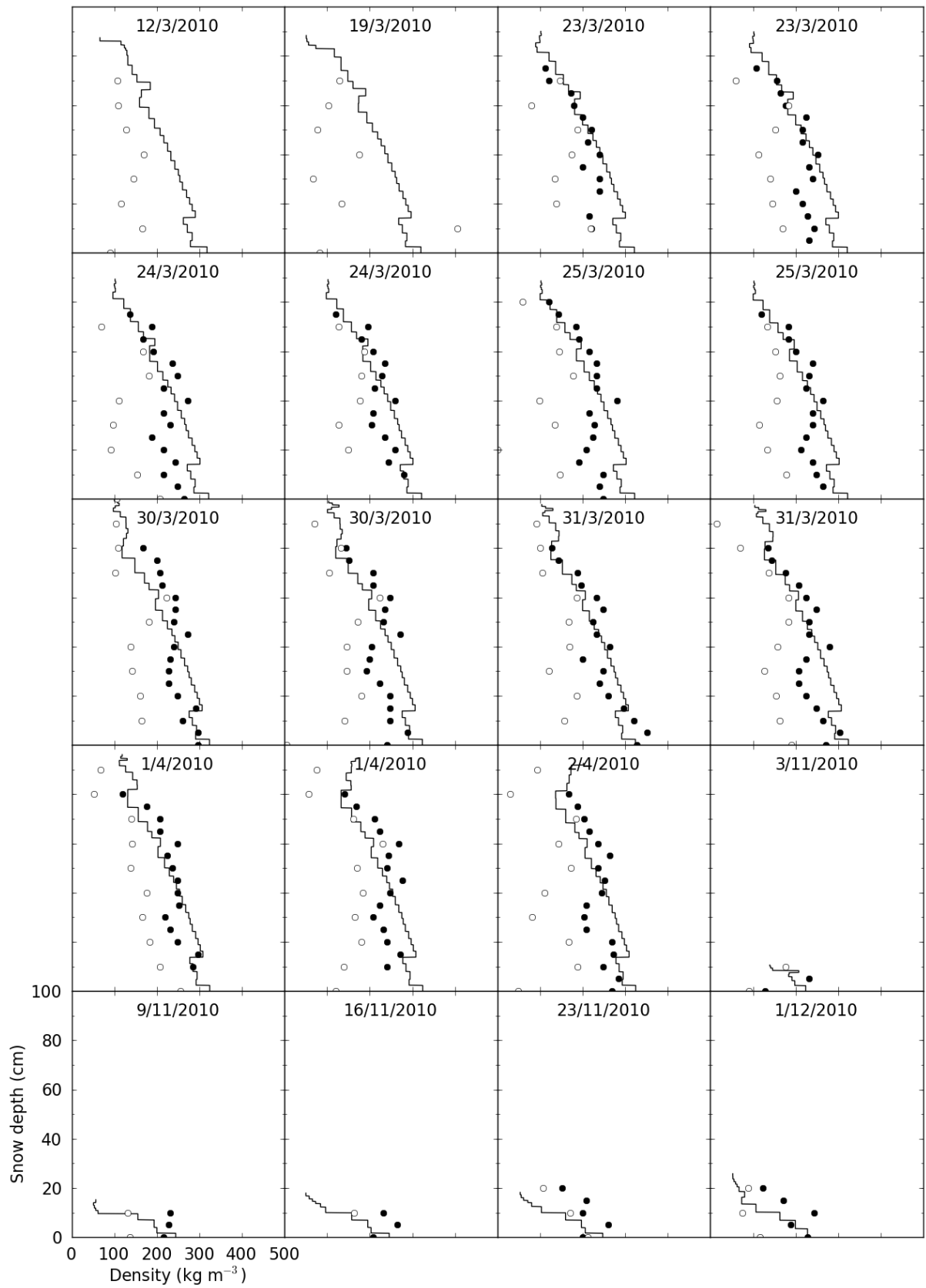


Figure S2. Continued

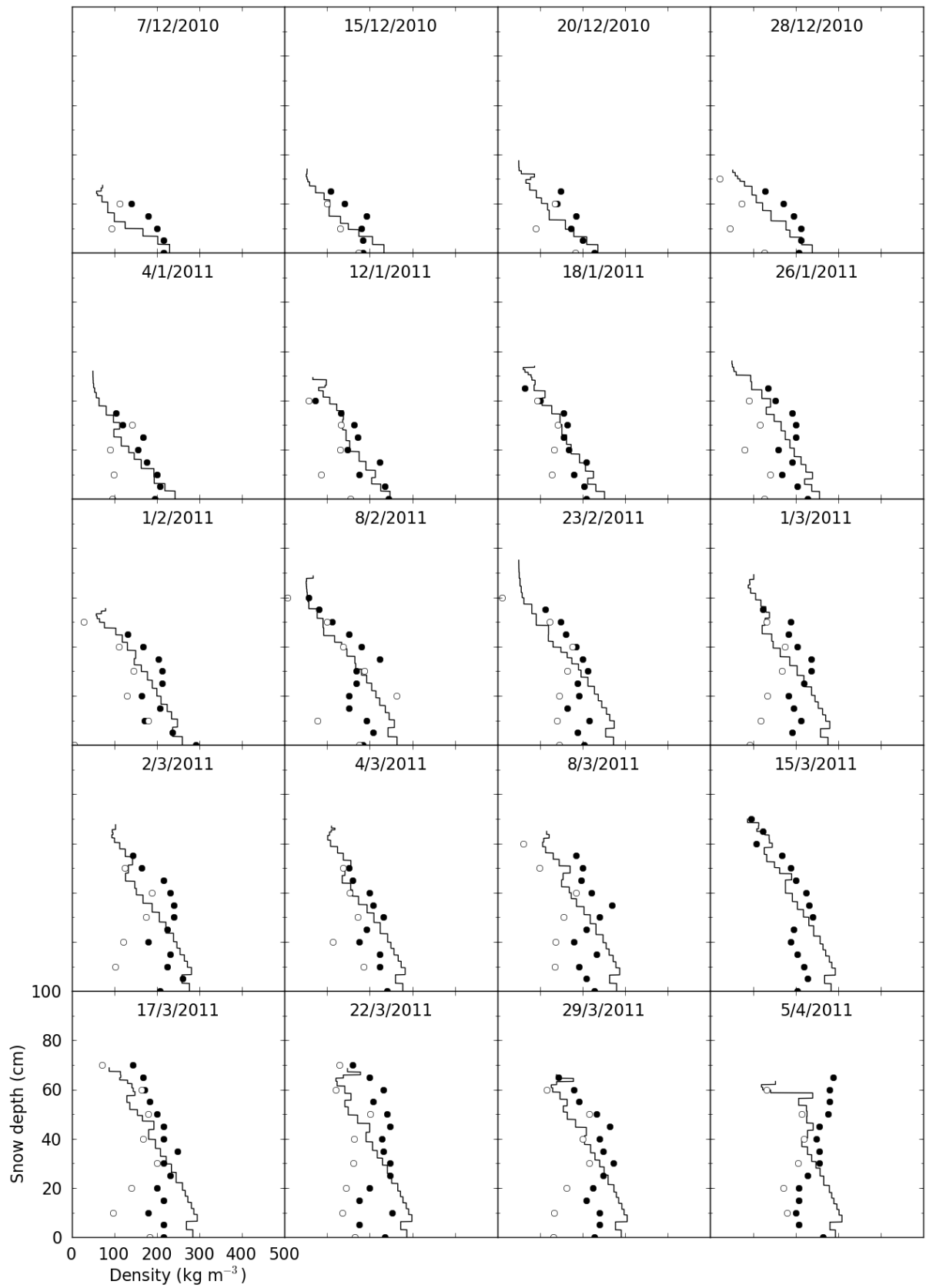


Figure S2. Continued

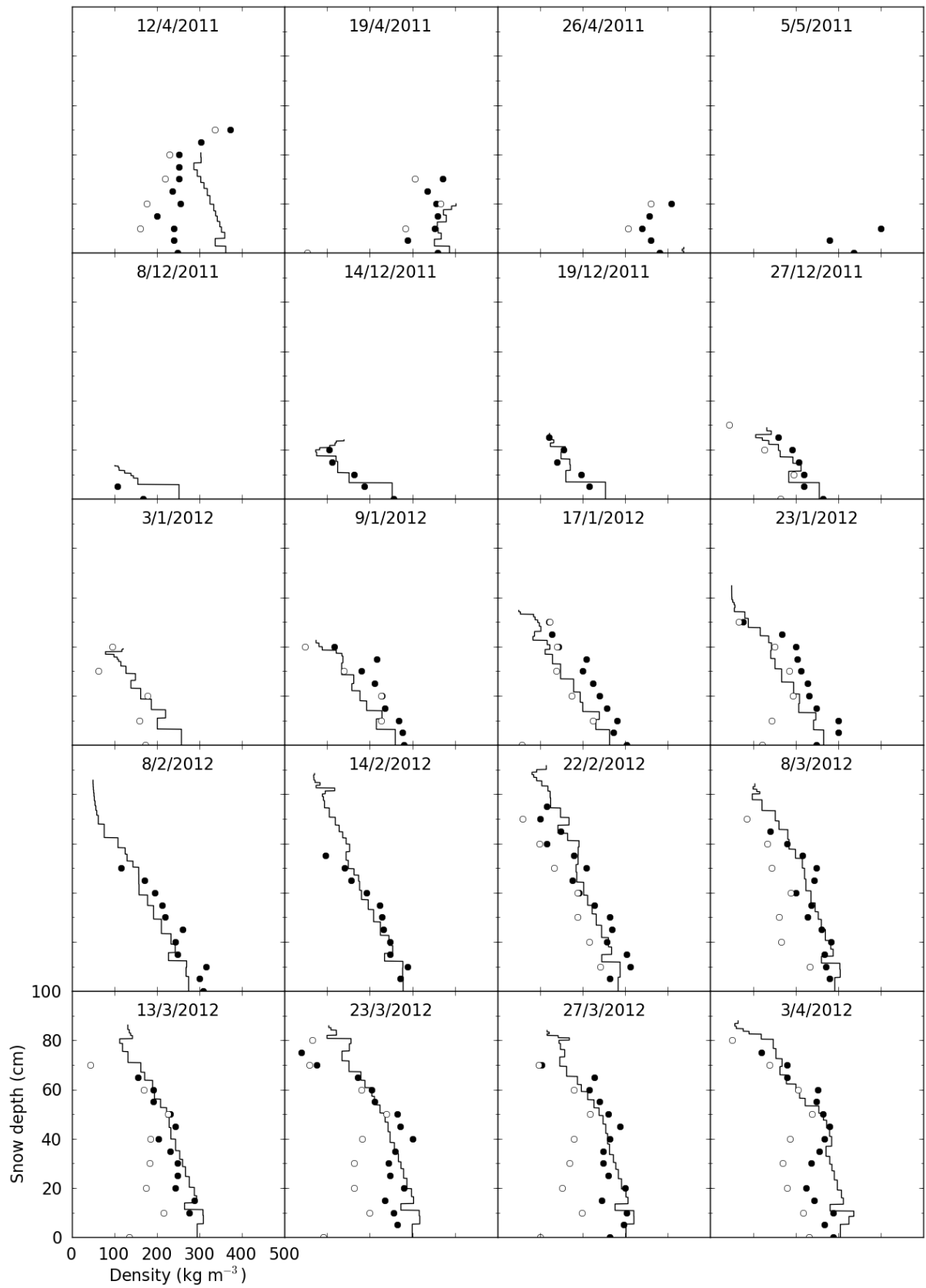


Figure S2. Continued

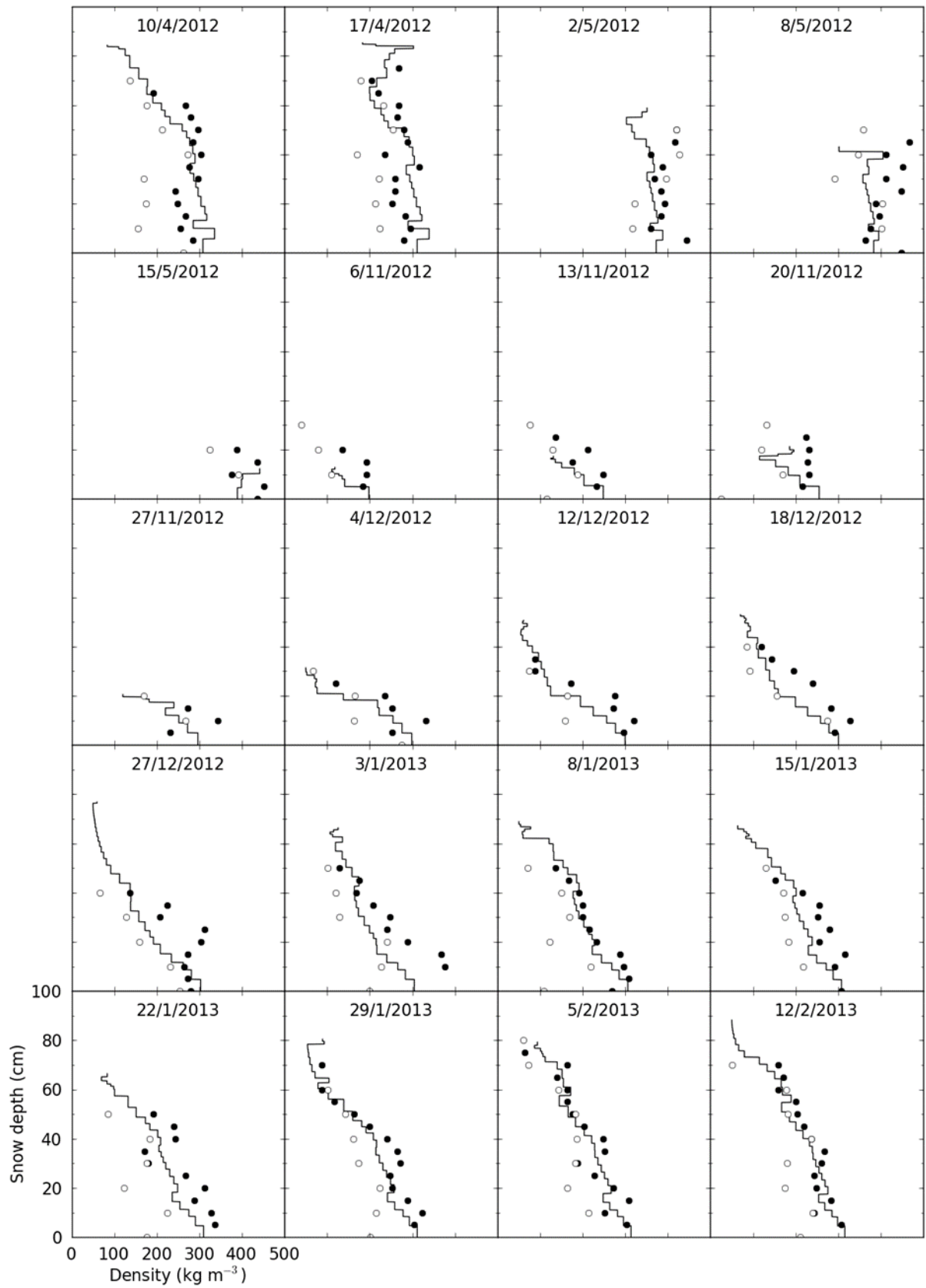


Figure S2. Continued

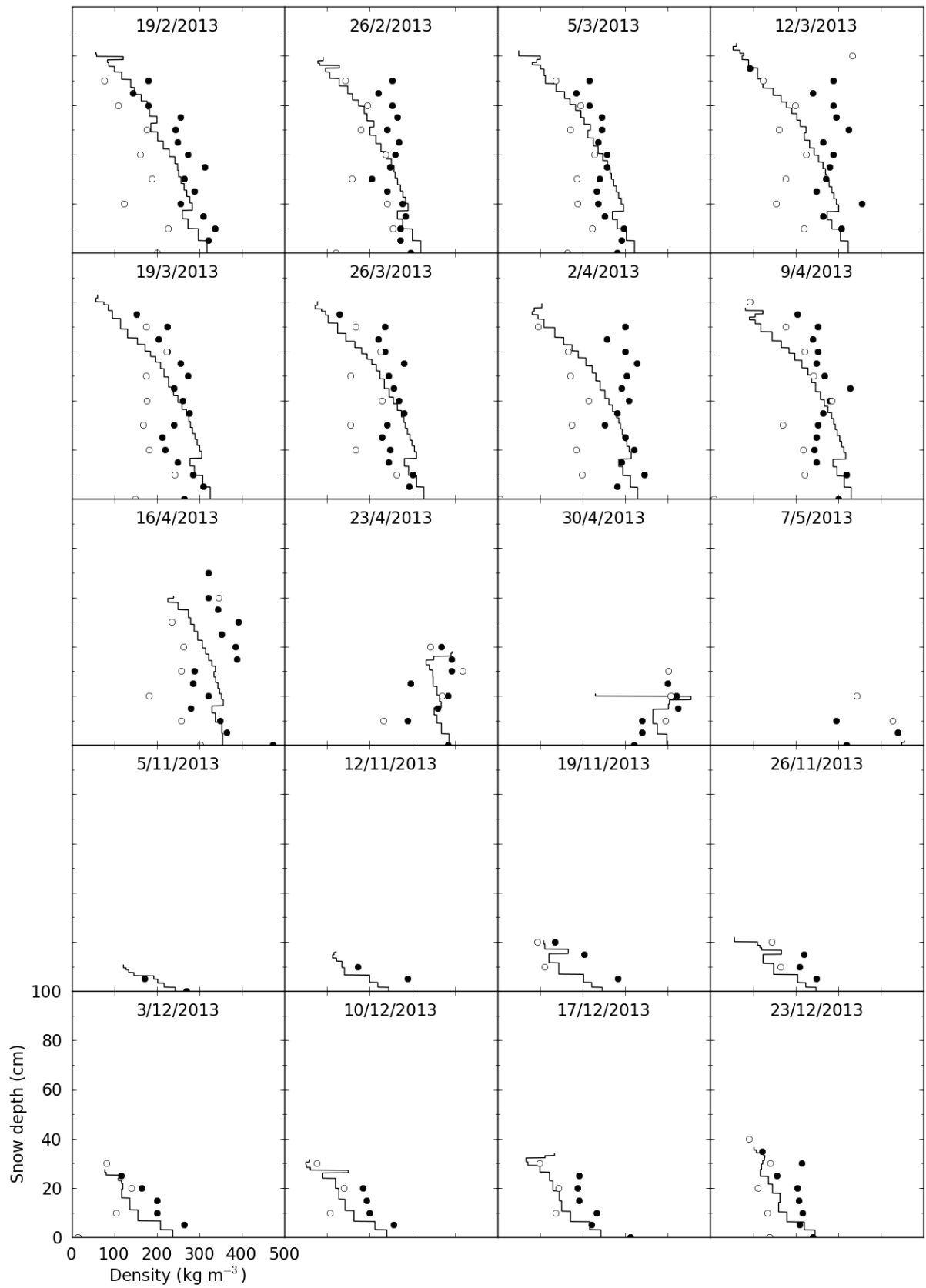
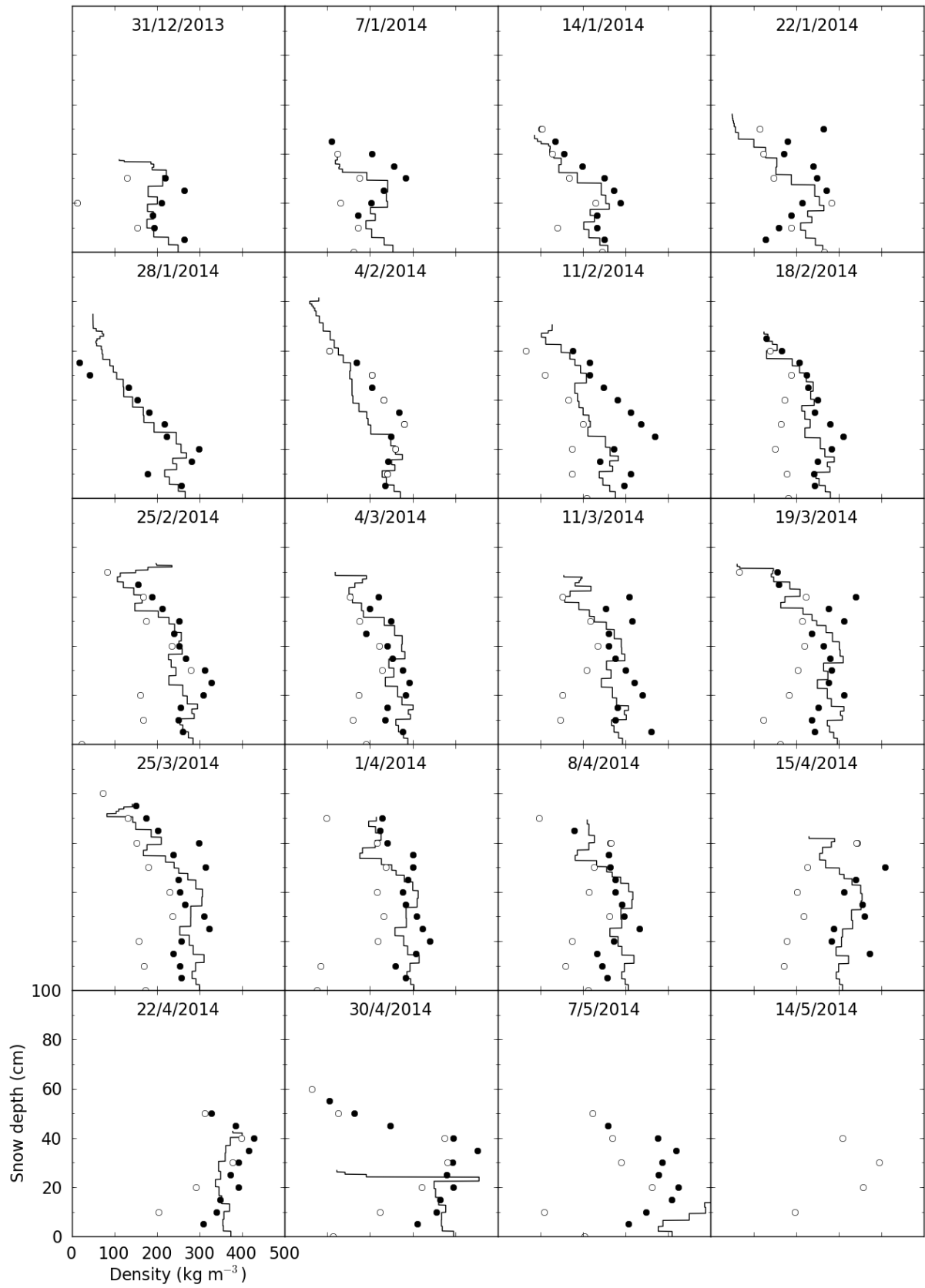


Figure S2. Continued





**Figure S1.** Profiles of snow density from manual measurements (black dots), thermistors (white dots) and Crocus simulations (lines).

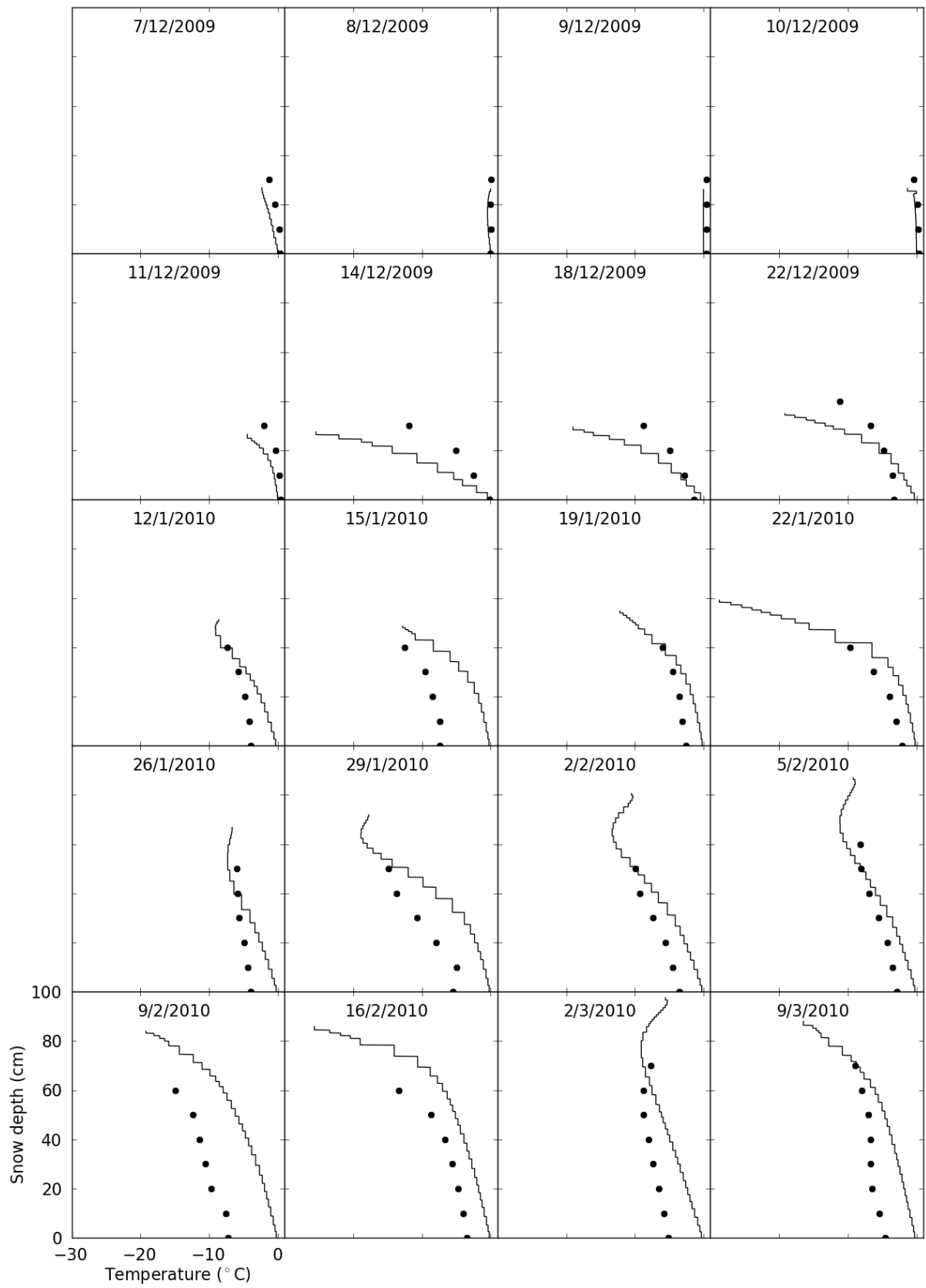


Figure S1. Continued

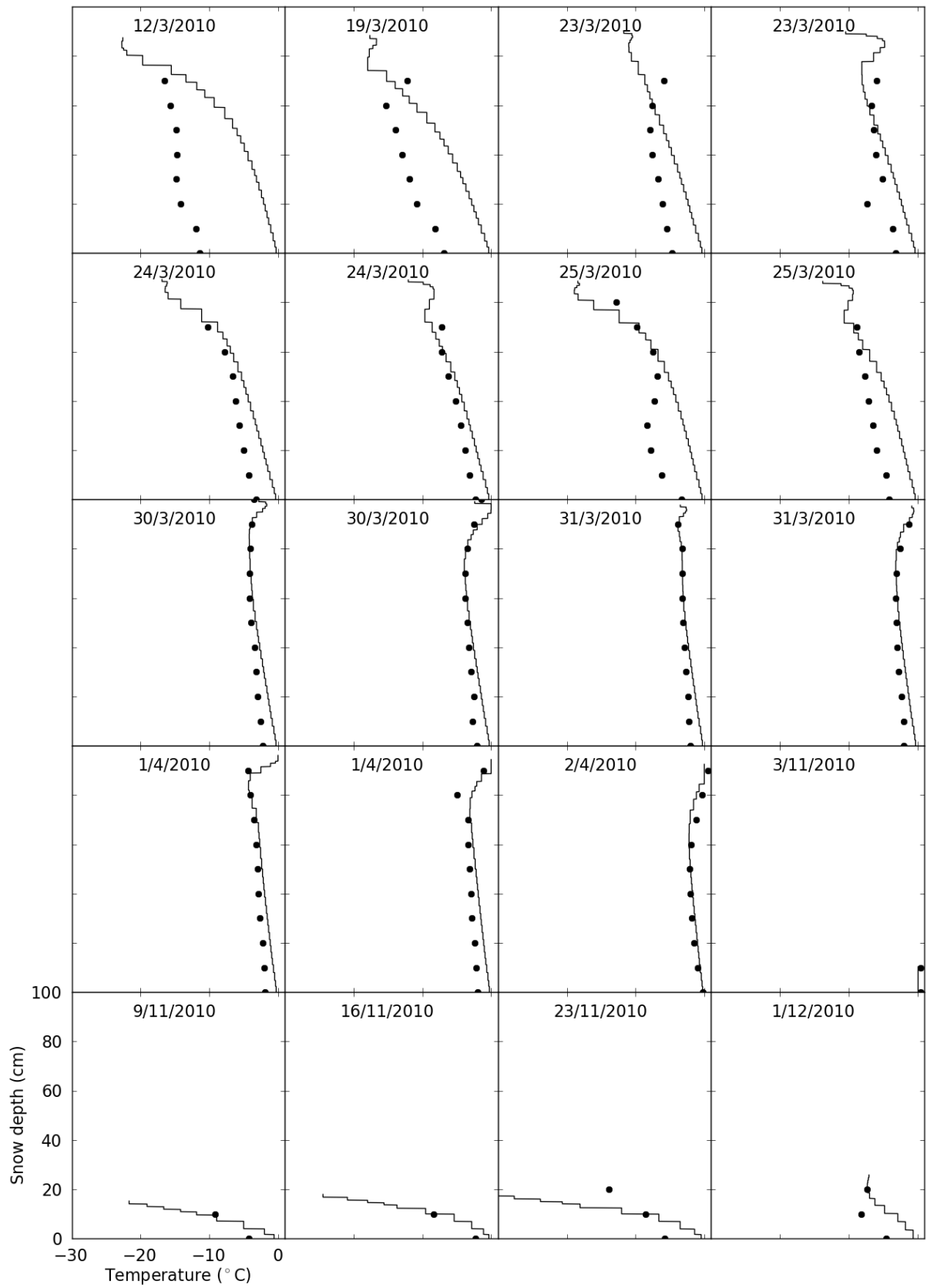


Figure S1. Continued

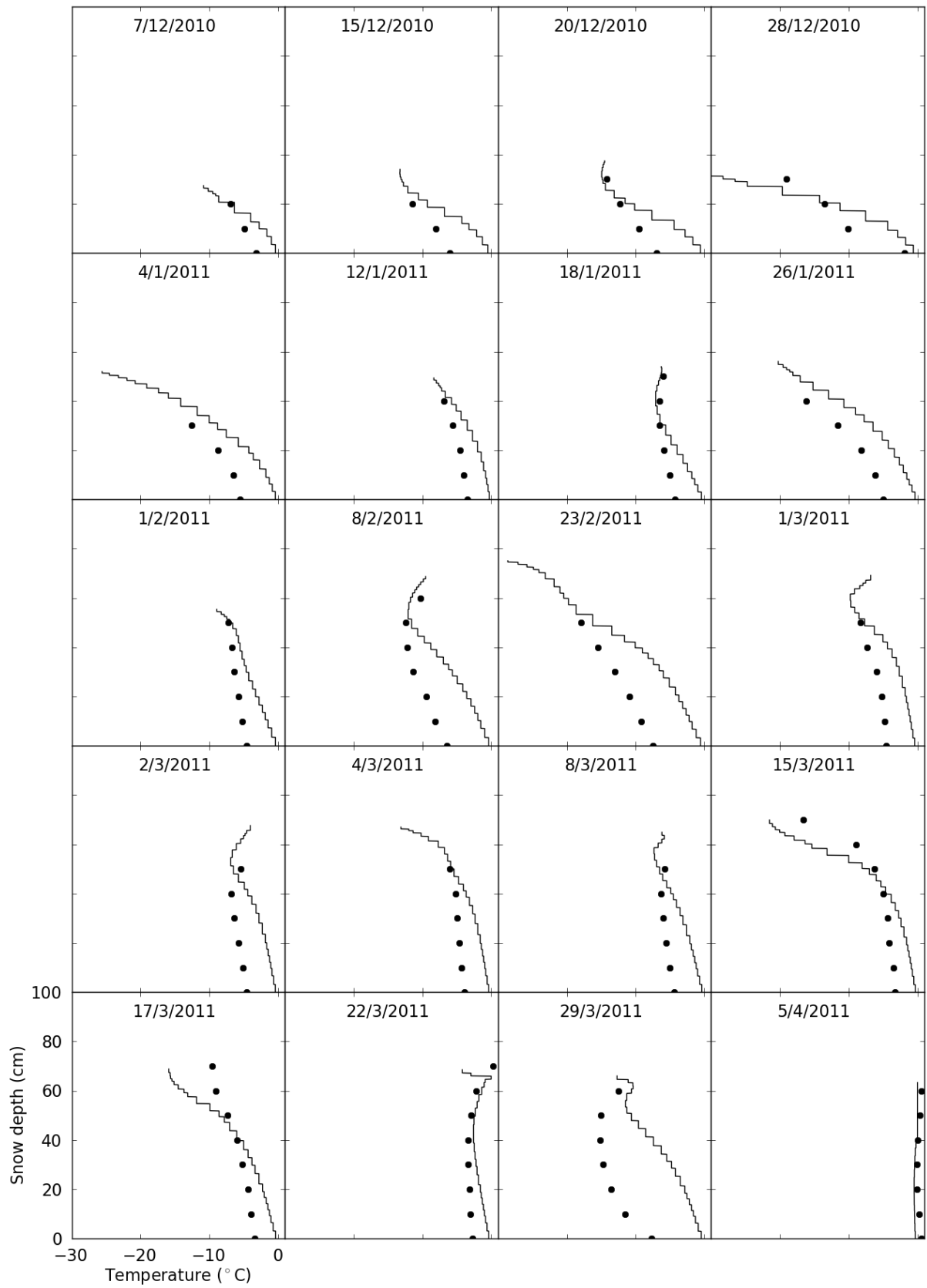


Figure S1. Continued

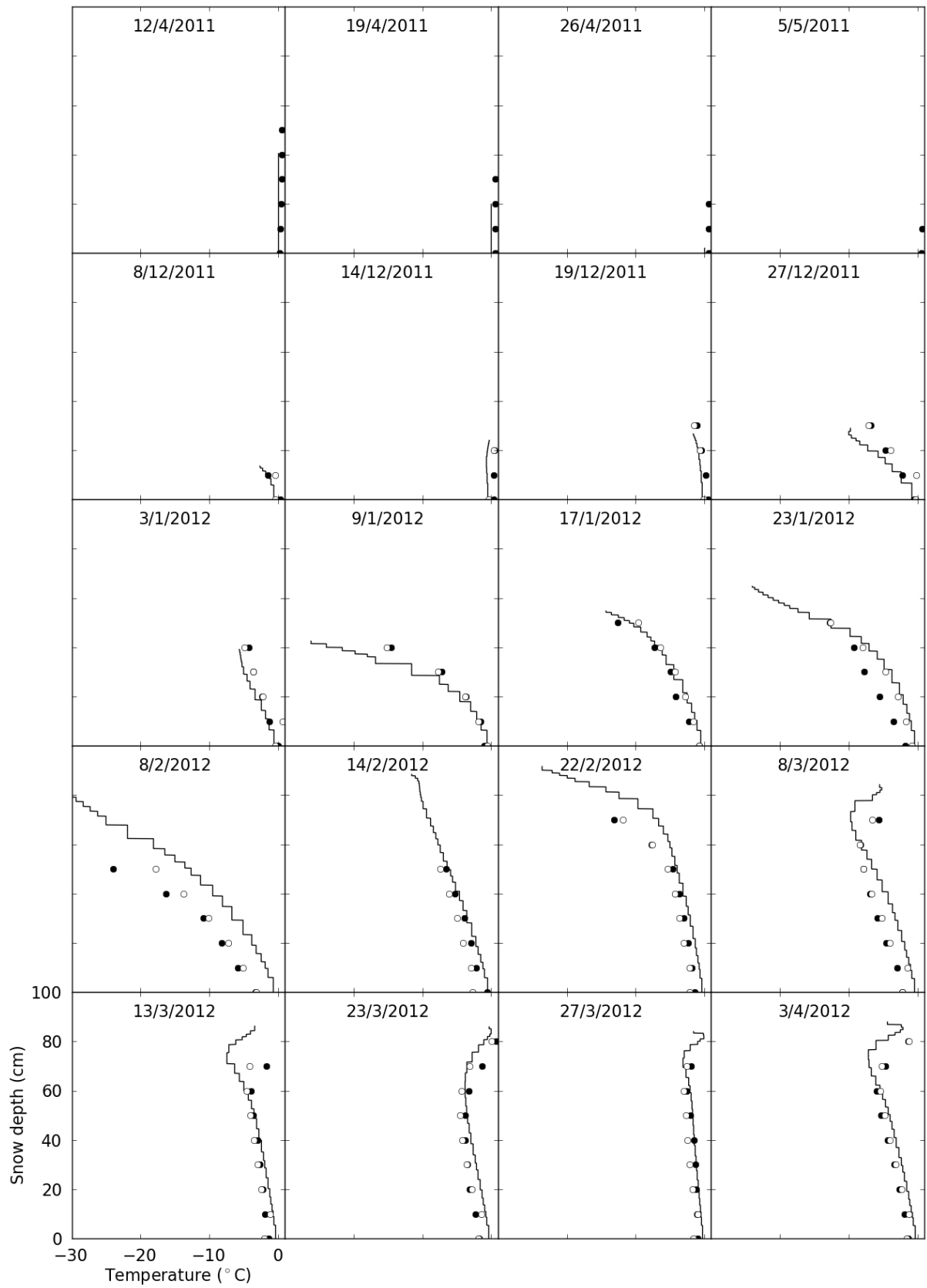


Figure S1. Continued

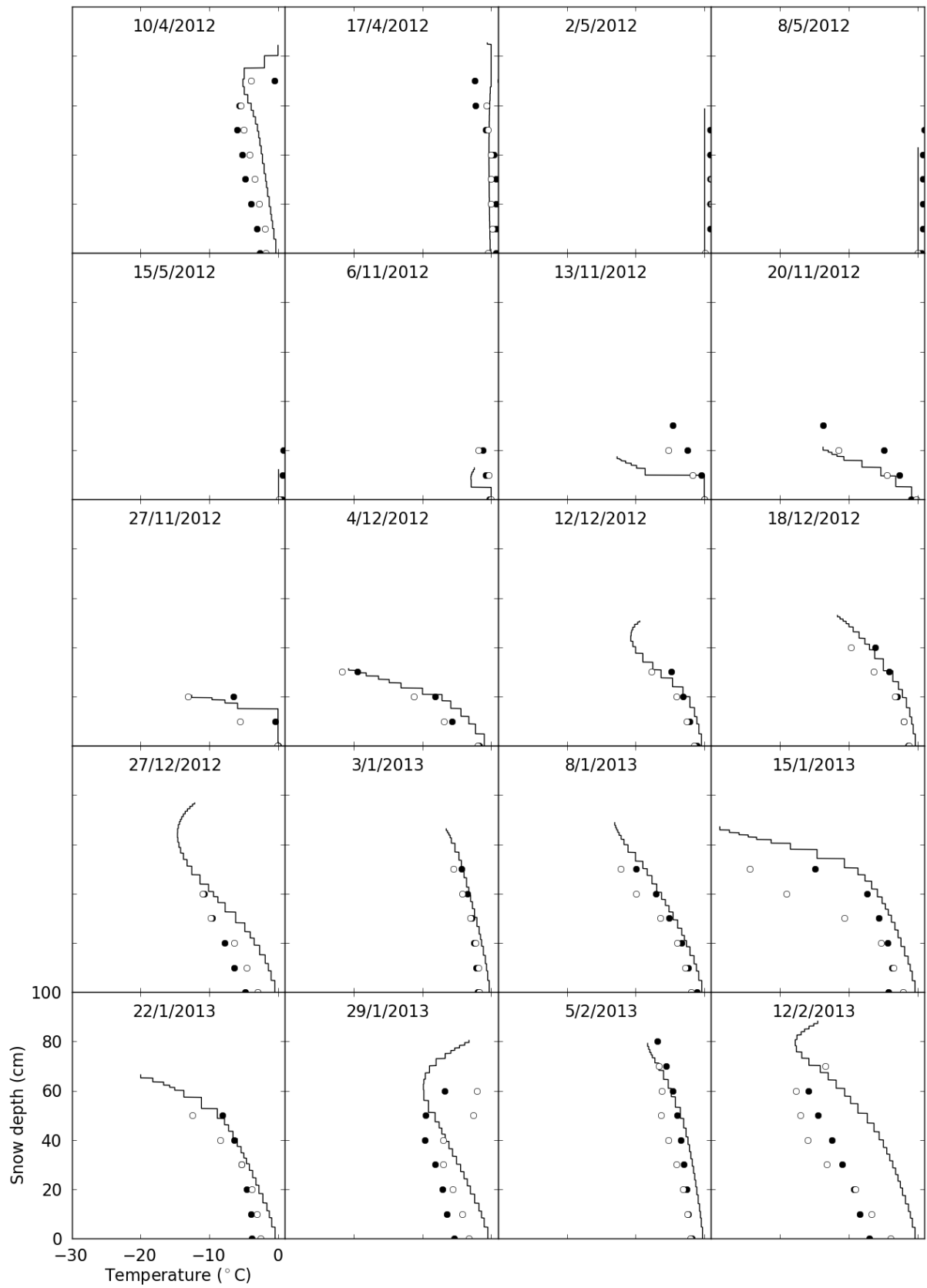


Figure S1. Continued

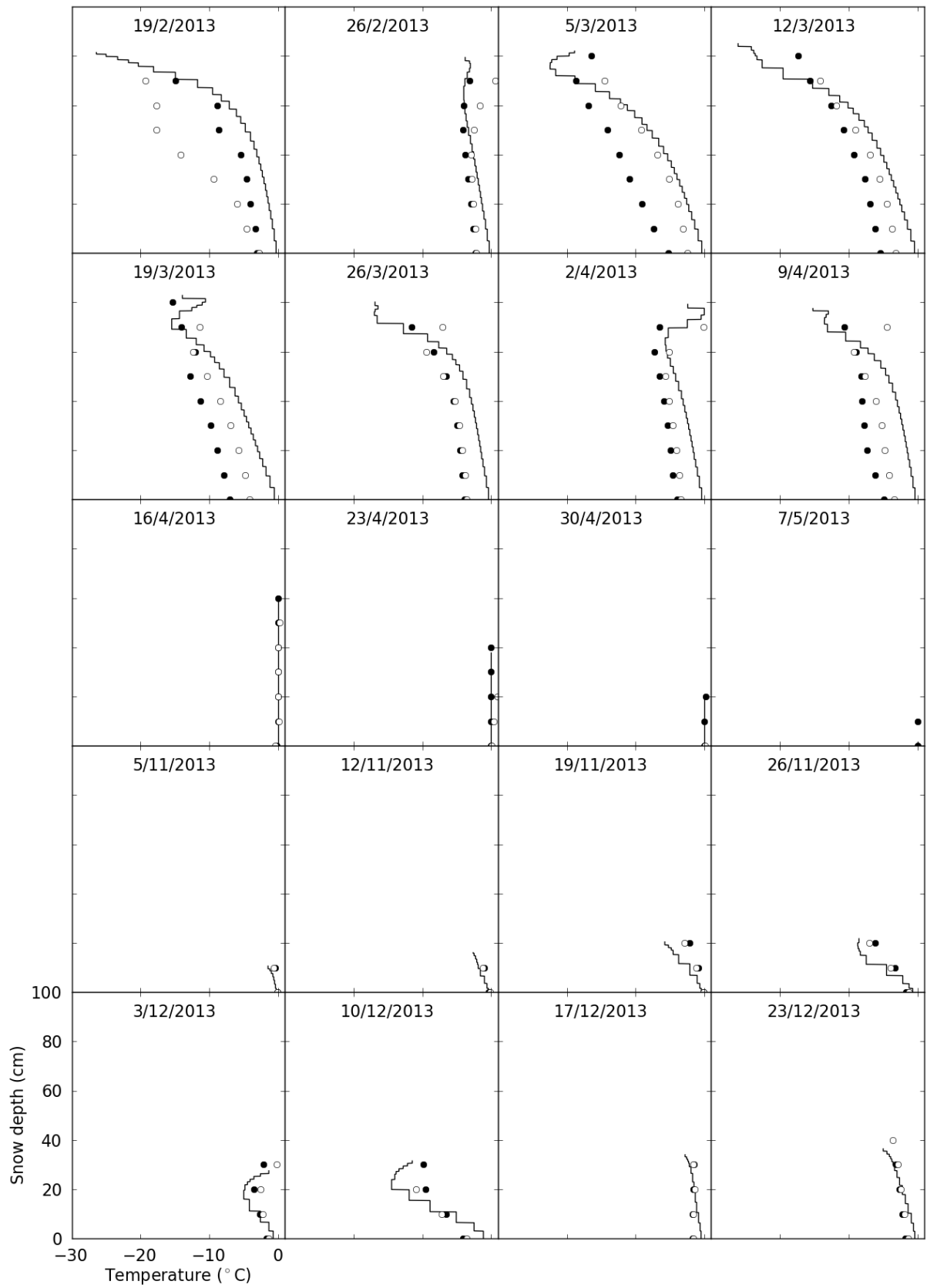


Figure S1. Continued

