Supporting information for

Present-day radiative effect from radiation-absorbing aerosols in snow

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Table S1. Summary of the MACs in NIR band used in the experiments. The units are in m^2/g.

Experiment	MAC adopted for each radiation-absorbing aerosol species			
	Fresh FF BC	Aged FF BC	Fresh BF/BB BC	Aged BF/BB BC
CTRL	3.2	4.8	3.5	5.3
BC-H	3.2	6.1	3.5	6.7
BC-L	3.2	3.5	3.5	3.9
	Fresh BF BrC	Aged BF BrC	Fresh BB BrC	Aged BB BrC
CTRL	0.15	0.15	0.15	0.15
BrC-H	0.15	0.15	0.15	0.15
BrC-L	0.15	0.15	0.15	0.15
	Dust 0.36–0.6	Dust 2.6–3.6	Dust 4.4–6.0	Dust 7.0–12.0
CTRL	0.025	0.034	0.029	0.025
DUST-H	0.031	0.040	0.034	0.029
DUST-L	0.014	0.020	0.018	0.016
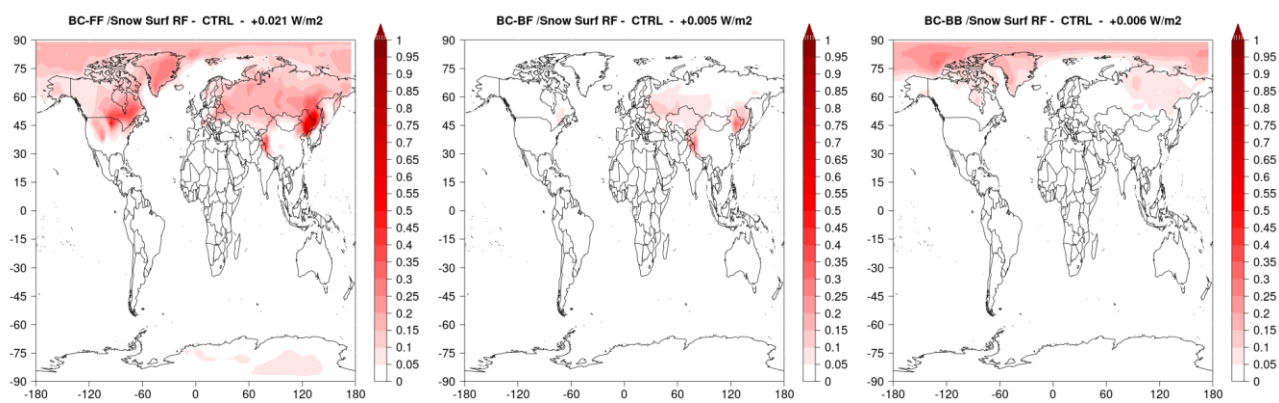
Figure S1. All-sky annual mean (2010–2014) black carbon snow RF divided by source (FF=fossil fuel, BF=biofuel, BB=biomass burning).
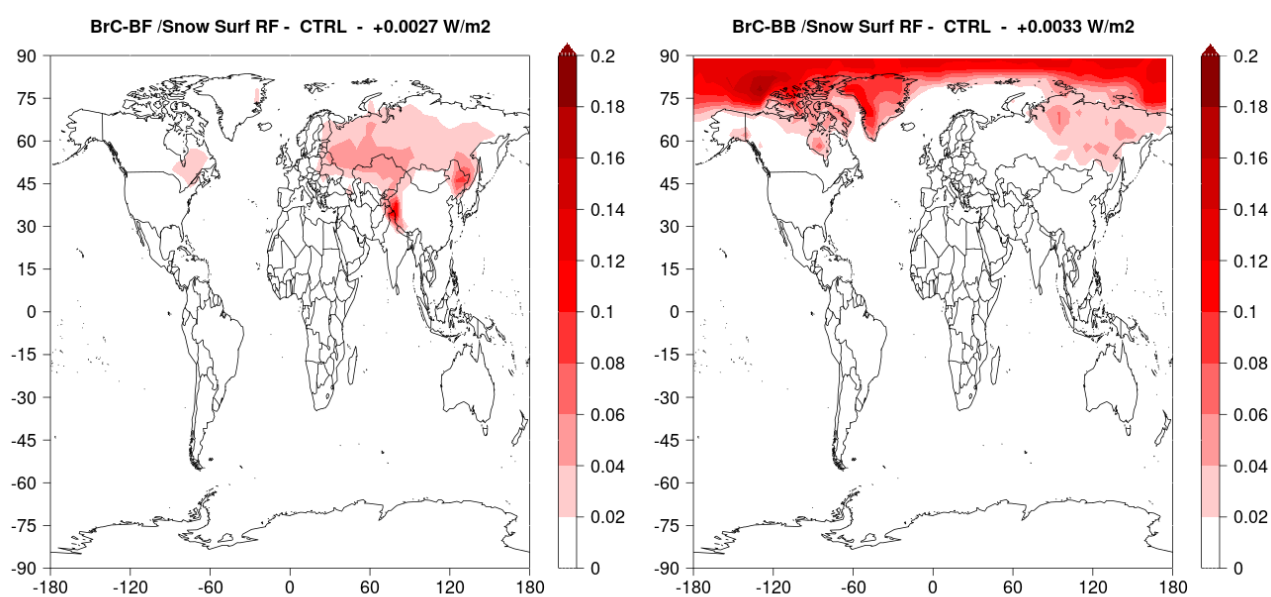
Figure S2. Same as Figure S1, but for brown carbon.
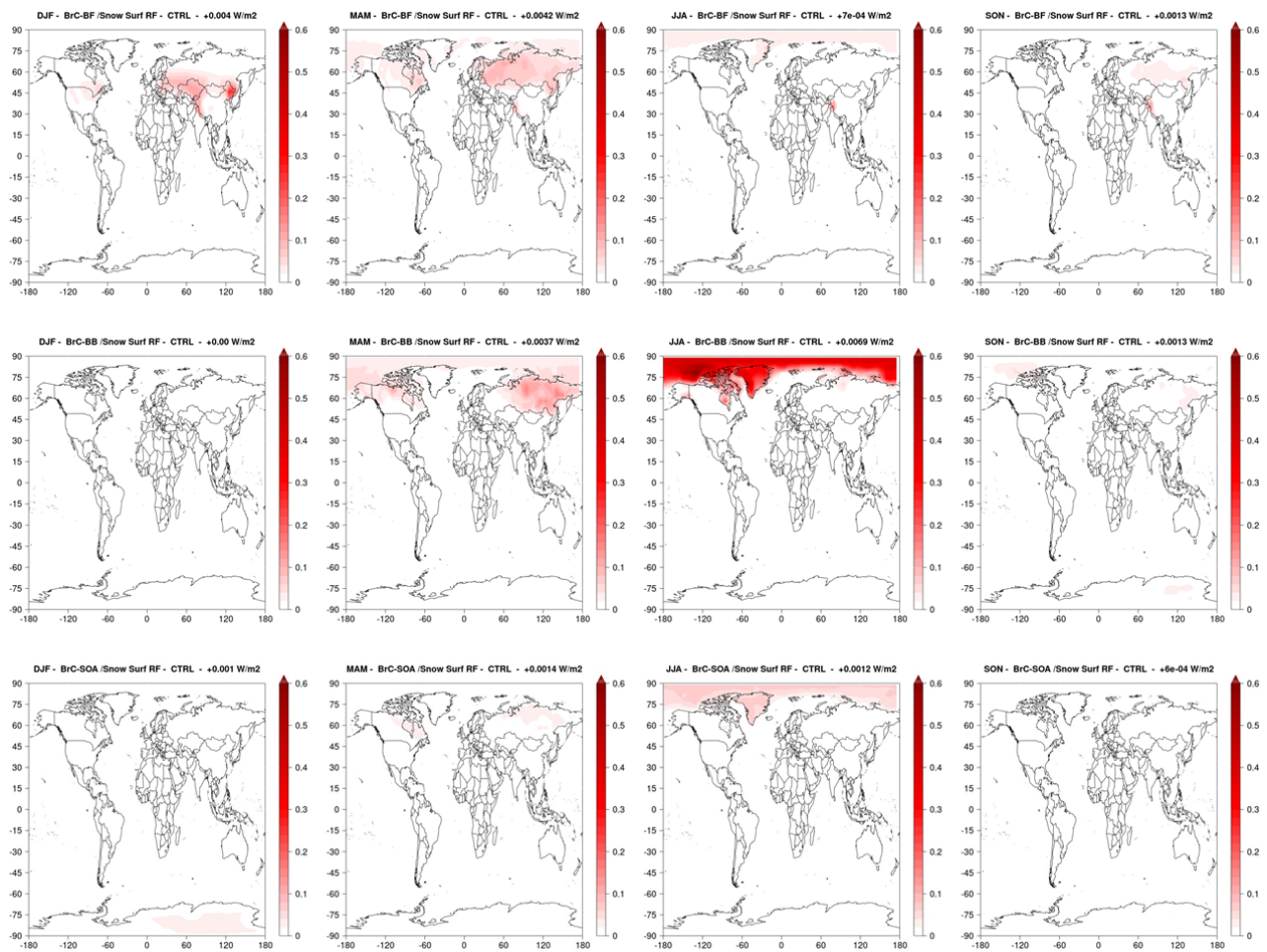
Figure S3. All-sky annual mean (2010–2014) seasonal BrC snow RF divided by source.
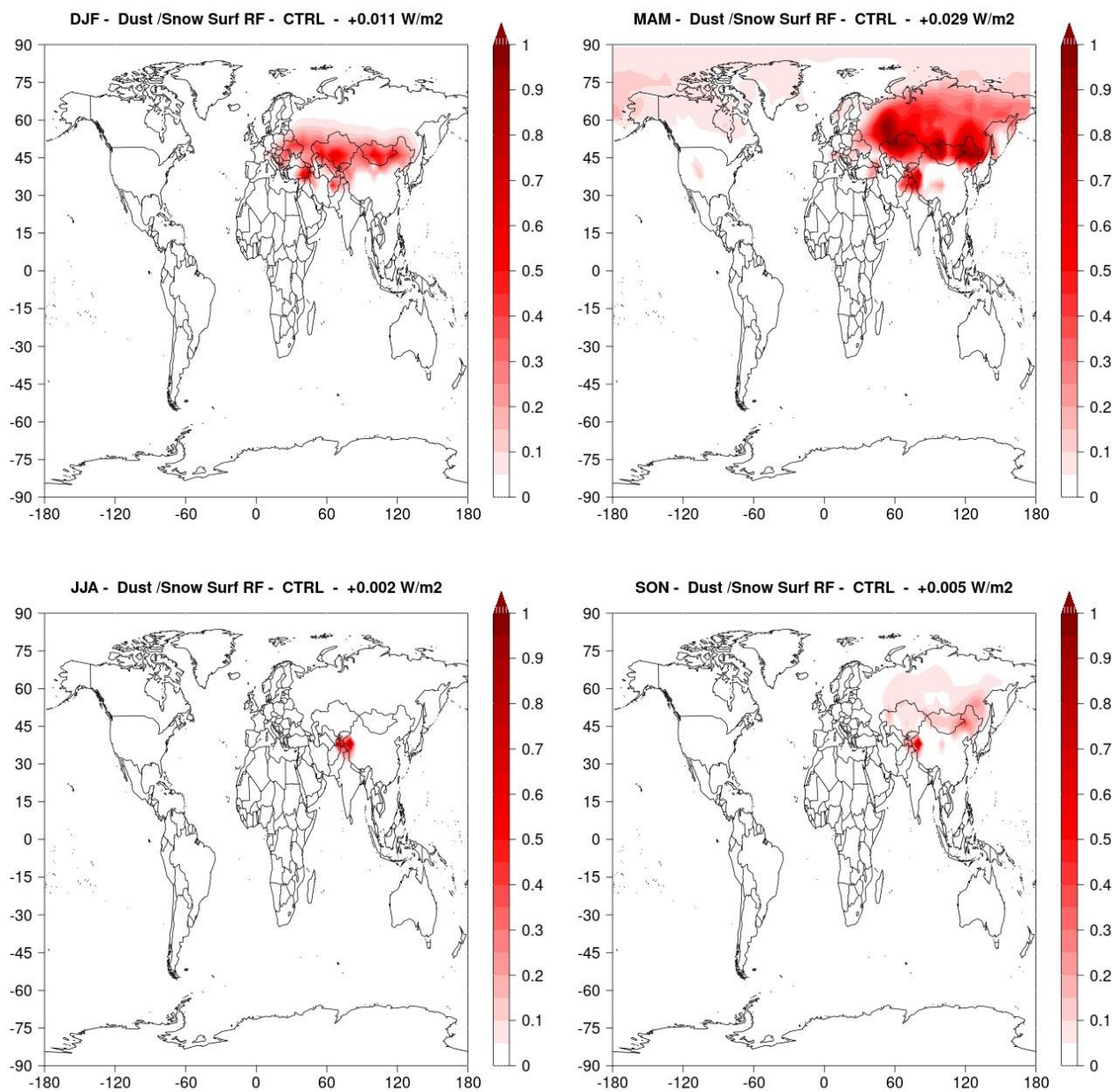
Figure S4. Same as Figure S3, but for soil dust.