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Supplemental Material for

The influence of summer deep soil temperature on early winter snow conditions in Eurasia in the NCEP CFSv2 simulation

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37 **Supplementary Table:**

38 **Table S1:** Detail of reanalysis, list of variables, resolutions, periods and references related to it.

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Datasets	List of variables	Resolution	Period	References
CFSR	LST, SUBT at 0-10cm, 10-40cm, 40-100cm and 100-200cm, Mean temperature between 1000hPa-600hPa, winds at 500hPa and 200hPa and geopotential height at 500hPa and 200hPa. 2-meter temperature	0.5° x 0.5°	1979-2008	Saha et al., 2010
CERES-EBAF	Net SWR, Net LWR, SCF and Surface Albedo	1° x 1°	2001-2015	Weilicki et al., 1996
ERA-interim	SHF and LHF	T255 horizontal grid (lon (512) x lat; (256))	1979-2008	Dee et al. 2011
GLDAS-2.0	SWE	0.25° x 0.25°	2000-2016	Rodell et al., 2004
ERA40	LST and 2-meter temperature	T106 horizontal grid (lon (320) x lat; (160))	1979-2001	Uppala et al. 2005
USAF SD	Snow depth	1° x 1°	1979-1998	Foster and Davy, 1988
Rand Corporation Monthly Global Snow Depth Climatology	Snow depth	5° x 4°	1950-1976	Schultz and Bregman, 1988

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