## Sval\_Imp: radiation procedure for downscaling radiation following the TopoSCALE method by Fiddes&Gruber (2014)

Fiddes, J. and Gruber, S.: TopoSCALE v.1.0: downscaling gridded climate data in complex terrain, *Geoscientific Model Development*, 7, 387–405, https://doi.org/10.5194/gmd-7-387-2014, 2014.

## Short usage description.

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## **Requires:**

M\_map: A mapping package for Matlab

https://www.eoas.ubc.ca/~rich/map.html

## File overview

ERAi_SW_to_Sval1km.m	Main script to be executed
doy.m	Function to calculate day of year, based on calendar date
interpERA2SVAL.m	Tool to interpolate coarse- scaled ERA fields to high- res grid
interpERA2SVAL_simple.m	Tool to interpolate coarse- scaled ERA fields to high- res grid, based on LAT LON
sort_radiation_ERAint.m	Preprocessing script, converts accumulated radiation fluxes to 6hourly mean flux
sort_T2_T2dew_ERAint.m	Preprocessing script, converts T2 and T2dew to T2 and pvap (vapor pressure), required by main script.