Regional climate model simulations (CCLM 15km) of profiles for the MOSAiC period

Data description

Coordinates of the nearest CCLM grid point (1h data)

File name: C15_Lat_Lon.txt

File description

DATE month day hour
JUL Julian day starting on 1 October 2019
DOY Julian day starting on 1 January
LAT Latitude north degrees
LON Longitude east degrees

CCLM profiles (1h)

File names: C15_profiles.zip (sea ice from AMSR data) and C15MOD0_profiles_winter.zip (sea ice from MODIS data)

Data of quantities on model levels for each month: CCLM_1h_quer_startdate-enddate
Startdate/enddate =YYYYMMDD, YYYY=year, MM=month, DD=day

File description

Jul Julian day starting on 1 October 2019
Height height above sea level in m
T temperature in °C
Theta potential temperature in °C
P pressure in hPa
U west-east component of the wind in m/s
V south-north component of the wind in m/s
DD1 wind direction in deg (0-360°)
DD wind direction in deg (-90-270°)
FF wind speed in m/s
QV specific humidity in g/kg
TKE turbulent kinetic energy in m^2/s^2
Jul1 Julian day starting on 1 January
Zeitd day of the month
QCI sum of cloud ice and cloud liquid water content in 10^{-3} g/kg
QC cloud liquid water content in 10^{-3} g/kg
QI cloud ice content in 10^{-3} g/kg
W vertical wind in m/s
FFG geostrophic wind speed in m/s
DDG geostrophic wind direction in deg (0-360°)

CCLM Integrated humidity and temperature data (1h data)

File names: C15_integrated_summer/winter.txt (sea ice from AMSR2 data) and C15MOD0_integrated_winter.txt (sea ice from MODIS data)

File description

Jul Julian day starting on 1 October 2019
DOY Julian day starting on 1 January
IWV Integrated water vapour in kg/m^2
TCGS mean temperature 0-2km in °C
QVGS mean specific humidity 0-2km in g/kg