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% Example 1: This is program to transfer data from
% netCDF source file to excel sheet
% Retrieve data for All grid
clc,clear all
format longE
% step 1: Display all variables in nc file using
% command: ncdisp
filename='1.nc';
ncdisp( filename,'/','min' )
finfo=ncinfo(filename)
variable=finfo.Variables(4).Name;
%%%%%%%%%%
% step 2: Read variables from nc file by command: ncread
variable=input ( 'write your main variable=','s');
msl=ncread (filename,variable)
long=ncread (filename,'longitude');
lat=ncread (filename,'latitude');
time=ncread(filename,'time');
%MSL=0. 01*msi;          % 1mb=0.01*pa %
msl=convtemp(msl,'k','c');
%step3 : Read all longitude and latitude for all grid point
%step4: convert 3-D array to 2-D array for all stations in 2-
D(2 dimensional)of array
m= numel(long);%m:number of element of longitude
n= numel(lat);%n:number of element of latitude
h=0; g=0;
for i=1:n
for j=1:m
h=h+ 1;
latt(h)=lat(i);
longg(h)=long(j);
MSL(:,h)=msl(j,i,:);
end
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end
latt1=[longg;latt];
% step5: convert time from net CDF format to MATLAB✓
format using its units and sort data in nc
%file
time=double(time);
A=time/24+ datenum('1900-01-01 00:00:00');
[time,l]=sort(A);
MSL=MSL(l,:);
yy=year(time);mm=month(time);dd=day(time);hh=hour✓
(time);
Date=[yy mm dd hh];
%step6:Display data in excel sheet or save data in .met file
C={'LOCATION:✓
IRAQ','FROM','TO','LONGTIUDE';'DATE','1/9/2009','30/9/20✓
09','LATITUDE'};
DD={'year','month','day','hour'};
for i =1:n*m
X(i)={'temperature(c)'};
end
filename='temperature.xlsx';
sheet=1;
xlswrite(filename,C,sheet,'A1')
xlswrite(filename,DD,sheet,'A3')
xlswrite(filename,latt1,sheet,'E1')
xlswrite(filename,X,sheet,'E3')
xlswrite(filename,Date,sheet,'A4')
xlswrite(filename,MSL,sheet,'E4')
save temperature
```