

Instructions for using read_cips_ncdf1.pro and read_cips_ncdf2.pro

Last updated July 2023

The files read_cips_ncdf1.pro and read_cips_ncdf2.pro are provided as a convenience for IDL users to read CIPS netcdf data files. Users need only one of these codes, and which one to use is a matter of preference.

The code read_cips_ncdf1.pro is a function. It returns all variables in a structure. The path and filename are included in the call statement.

The code read_cips_ncdf2.pro is a program. It reads all variables individually into the main level. The path and filename are included in the first two statements in the code.

Steps for reading the CIPS data:

- (1) Download the CIPS data files into a convenient folder on your computer.
- (2) Unzip the data files.
- (3) Download read_cips_ncdf1.pro and/or read_cips_ncdf2.pro into a convenient folder on your computer. This does not have to be in the same folder as the CIPS data files.
- (4) Execute the following IDL command to read the CIPS data into a structure called "data" using read_cips_ncdf1.pro:

```
IDL> data = read_cips_ncdf1(filename)
```

(Here "filename" must include the path and filename of the CIPS ncdf file.)

OR

- (4) Execute the following IDL command to read the CIPS data into individual variables at the main level using read_cips_ncdf2.pro:

```
IDL> .run read_cips_ncdf2
```

(The first two executable lines of the read_cips_ncdf2.pro code must be edited to include the correct path and filename.)