

# Help & Documentation\*

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Codes of this library is written by of Hydro Group members.

## 1 Directory descriptions

- `/data/hydro/jennylabcommon2/metdata/historical/UI_historical/VIC_Binary_CONUS_to_2016`

The data in above directory is for observed historical data. It contains **8** variables.

1. Time period: 1979-2016
2. variables: {`precip`, `tmax`, `tmin`, `wind`, `sph`, `srad`, `rmax`, `rmin`}

- `/data/hydro/jennylabcommon2/metdata/maca_v2_vic_binary/`

The data in above directory is related to modeled data. It contains **4** variables.

Variables:

1. {`precip`, `tmax`, `tmin`, `wind`}
2. {`mm/day`, `Celsius degree`, `Celsius degree`, `m/s`}

Time periods:

1. The historical data spans 1950-2005 and
2. projections are from 2006 through 2099 for rcp45 and rcp85.

Binary format:

1. unsigned short int for the first var (ppt),
2. signed short for all other variables multi: {40,100,100,100};

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\*Name of the programmer of functions is written in the code for debugging purposes. If you see any flaw, please contact the programmer.

So, in short

observed  $\equiv$  8 variables  $\equiv$  1979-2016  $\equiv$  UI\_historical in directory

modeled  $\equiv$  4 variables  $\equiv$  1950-2005  $\equiv$  a short path including MACA at the end