# Appendix to regridding NCDCs meteorological data

#### 1 PRECIPITATION

#### 1.1 cmb\_prcp.dly

Daily precipitation file downloaded directly from Earthinfo CDs. One year is on one line although you can not see this below, since the line appears wrapped.

#### 3012827IFLIREKA RS

#### 1.2 cmb\_prcp.sta

Precipitation station file downloaded from Earthinfo CDs

#### 1.3 glakes\_prcp.daily

Precipitation data file after processing by preprocessing script. Although the line as it appears below is wrapped, the daily data for each year is on one line (366 fields for each year).

```
23 ADDISON
                          1948
-99 \ -99 \ -99 \ -99 \ -99 \ -99 \ -99 \ -99 \ -99 \ -99 \ -90 \ 0.04 \ 0.00 \ 0 \ 0.00 \ 0.30 \ 0.14 \ 0.07 \ 0.20 \ 0.00
0.07\ 0.06\ 0.00\ 0.20\ 0.17\ 0\ 0.00\ 0.33\ 0.12\ 0.10\ 0.00\ 0.55\ 0.03\ 0.12\ 0.48\ 0.00\ 0.00\ 0.00
0.00\ 0.20\ 0\ 0.00\ 0.00\ 0.00\ 0.00\ 0.40\ 0.40\ 0.52\ 0.50\ 0.07\ 0.00\ 0\ 0.28\ 0.00\ 0.00
0.00\ 0.00\ 0.00\ 0.18\ 0.00\ 0.00\ 0.17\ 0.14\ 0.50\ 0.10\ 0.00\ 0.00\ 0.25\ 0.40\ 0.21\ 0.00\ 0.00\ 0.00
0.00\ 0.35\ 0.08\ 0.16\ 0.00\ 0.00\ 0.00\ 0.00\ 0.30\ 0.65\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00
0.03\ 0.00\ 0.00\ 1.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00
0.00\ 0.00\ 0\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.12\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.15\ 0.00\ 0.00\ 0.00
0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.23\ 0.00\ 0.25\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.10\ 0.03
0.00\ 0.00\ 0.00\ 0.00\ 0.04\ 0\ 0.02\ 0.78\ 0.20\ 0.00\ 0.09\ 0\ 0.18\ 0\ 0.00\ 0.00\ 1.32\ 0\ 0.00\ 0\ 0.00
0 \ 0 \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 0.00 \ 0.02 \ 0.10 \ 0 \ 0.20 \ 0 \ 0.00 \ 0.72 \ 0.00 \ 0.00 \ 0.02 \ 0.54
0.00\ 0\ 0\ 0.08\ 0.00\ 0.15\ 0.00\ 0.00\ 0.53\ 0\ 0.00\ 0.37\ 0\ 0.00\ 0.00\ 0.10\ 0.00\ 0.10\ 0.13\ 0\ 0.00
0.00\ 0\ 0.10\ 0.05\ 0.00\ 0\ 0.00\ 0\ 0.43\ 0.65\ -99\ -99\ -99\ 3.18\ 3.69\ 6.51\ 2.63\ 0.85
2.66 3.06 2.25 -99 -99 -99 -99 -99 0.55 0.52 3.35 1.35 0.25 1.32 0.72 0.65 -99
   23 ADDISON
                          1949
0.20\ 0.20\ 0.05\ 0\ 0.30\ 0.20\ 0\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.00\ 0.05\ 0\ 0.10\ 0.06\ 0.08\ 0
0.00\ 0\ 0.00\ 0.15\ 0\ 0.05\ 0.53\ 0.30\ 0\ 0.10\ 0.00\ -99\ 0.00\ 0.00\ 0.00\ 0\ 0.00\ 0.00\ 0.00\ 0.00
0.00\ 0.00\ 0.00\ 0.00\ -99\ 0\ -99\ 0.05\ 0.00\ 0.00\ 0.00\ 0.13\ 0.21\ 0.00\ 0.20\ -99\ 0.00\ 0.05
-99\ \ 0.28\ \ 0.00\ \ 0.08\ \ 0.00\ \ 0.05\ \ 0.26\ \ 0.00\ \ 0.00\ \ 0.43\ \ 0.23\ \ 0.00\ \ 0.00\ \ 0.10\ \ 0.00\ \ 0.05
0 0.00 0.00 0.00 0
```

#### 1.4 east\_prcp.inf

First line is the total number of stations to follow.

```
2142
   41.3489
                -73.0694
                                42.7 ANSONIA 1 NE
                                                                     060128 Prcp CT 04/01/1966 12/31/1997
                                                                                                                      32 99
                                                                                                                                2 NEW HAVEN
                -73.0103
-72.9500
                               182.1 BAKERSVILLE
201.3 BARKHAMSTED
                                                                     060227 Prcp CT 06/02/1948 12/31/1997
060299 Prcp CT 06/01/1948 12/31/1997
   41.8417
                                                                                                                      36
                                                                                                                           68
                                                                                                                                1 LITCHFIELD
   41.9167
                                                                                                                      50
                                                                                                                           98
                                                                                                                                1 LITCHFIELD
   41.1667
                -73.1333
                                  3.0 BRIDGEPORT WSO ARPT
                                                                     060806 Prcp CT 07/01/1948 12/31/1997
                                                                                                                      50 100
                                                                                                                                3 FAIRFIELD
                                                                     060918 Prcp CT 05/01/1950 11/30/1983
060961 Prcp CT 06/01/1948 12/31/1997
   41.7833
                -71.9500
                                73.2 BROOKLYN
                                                                                                                      33
                                                                                                                                2 WINDHAM
                -73.4833
                                 79.3 BULLS BRIDGE DAM
```

#### 1.5 cmb\_prcp.fmt

Output from read\_prec\_dly, with one column for each station in the .inf file, and one row for each day.

```
.51
                                                        .00
12.70
              -9.00
                        2.79
                              -9.00
                                        2.29
                                               1.02
                                                                .00
                                                                     11.43
     -9.00
                            -9.00
                                    -9.00
                                             1.78
.00
              2.54
                    11.68
                                                    14.22
                                                            11.68
                                                                   -9.00
8.89
       7.87
                .00
                      17.27
                             -9.00
                                     -9.00
                                             -9.00
                                                     -9.00
                                                               .00
                                                                    -9.00
.00
      7.62
             -9.00
                     -9.00
                              7.62
                                    -9.00
                                            20.83
                                                    -9.00
                                                            -9.00
                                                                   -9.00
.00
     -9.00
             -9.00
                     -9.00
                            -9.00
                                    -9.00
                                            -9.00
                                                    -9.00
                                                              .51
                                                                   -9.00
9.00
      -9.00
             -9.00
                     -9.00
                                .00
                                     -9.00
                                            -9.00
                                                      5.33
                                                             15.75
                                                                    -9.00
```

## 1.6 cmb\_prcp.grd

Output from regrid.f (ascii format). In this file there should be no void numbers (-9.0, -99.0, etc). Check this with grep. If so, you have to include a larger upper bound in the nearest neighbbor input, though with an upper bound of 50 or 60 this should virtually never happen, unless there is some other problem. This file will be used together with the gridded temperature data to make the final, ready to run, vicinput files.

```
0.94
       1.15
               0.25
                       0.23
                               0.03
                                       1.07
                                                0.59
                                                       0.14
                                                                0.03
                                                                        0.94
0.68
       0.22
               0.26
                       0.85
                               0.69
                                       0.29
                                                0.72
                                                       0.75
0.94
       1.15
               0.25
                       0.14
                               0.00
                                       1.07
                                               0.59
                                                       0.00
                                                                0.00
                                                                        0.94
0.68
       0.00
               0.00
                       0.85
                               0.69
                                       0.00
                                                0.00
                                                       0.75
                               0.00
0.94
       1.15
               0.25
                       0.14
                                       1.07
                                                0.59
                                                       0.00
                                                                0.00
                                                                       0.94
0.68
       0.00
               0.00
                       0.85
                               0.69
                                       0.00
                                                0.00
                                                       0.75
1.01
       1.15
                       1.00
                               2.16
                                       1.07
                                                0.59
                                                                       0.94
               0.32
                                                       1.01
                                                                1.68
               1.00
0.68
       0.95
                       0.85
                               0.69
                                       0.83
                                                0.08
                                                       0.75
2.66
       1.51
               3.97
                      12.04
                              26.27
                                       1.67
                                               2.62
                                                      13.75
                                                              20.78
                                                                       1.93
2.45
      12.80
              13.00
                       2.10
                               2.42
                                      11.30
                                                2.25
                                                       2.31
0.98
       1.15
               0.29
                       0.83
                               1.16
                                       1.07
                                                0.59
                                                       0.94
                                                                0.85
                                                                       0.94
                       0.85
0.68
       1.16
               1.29
                               0.69
                                       1.36
                                                2.44
                                                       0.75
0.94
       1.15
               0.25
                       0.81
                               0.43
                                       1.07
                                                0.59
                                                       0.99
                                                                1.16
                                                                        0.94
```

### 1.7 monthly.jan

Upper corner of one of the monthly files created from the gridded VIC data.

```
ncols
              200
              224
nrows
              -92
xllcorner
yllcorner
              25
cellsize
             0.125
             -9999
NODATA_value
-9999.00 -9999.00 -9999.00 -9999.00
-9999.00 -9999.00
                            118.66 -9999.00
                    45.17
-9999.00 -9999.00
                    89.45 -9999.00 -9999.00
-9999.00 -9999.00 -9999.00 -9999.00
```

# 1.8 prism.jan

Portion of one of the 12 output files from get\_prism.c (prism.jan) This file will be used with monthly.jan to rescale the precipitation file.

```
200
ncols
             224
nrows
xllcorner
            -92
             25
yllcorner
cellsize
             0.125
NODATA_value -9999
-9999.00 -9999.00 -9999.00 -9999.00
-9999.00 -9999.00
                   54.17
                         128.76 -9999.00
                  83.54 -9999.00 -9999.00
-9999.00 -9999.00
-9999.00 -9999.00 -9999.00 -9999.00
```