

## DDC Variables for AR4

|                 | DDC-Variable   | PCMDI-Variables | Table/ Nr |
|-----------------|--|-----------------|-----------|
| core data       | 2m surface air temperature                                   | tas             | A1a/3     |
|                 | 2m mean min. air temperature                                 | tasmin          | A1f/5     |
|                 | 2m mean max. air temperature                                 | tasmax          | A1f/6     |
|                 | total precipitation  | pr              | A1a/2     |
|                 | total incident solar radiation                               | Rrsds           | A1a/13    |
|                 | mean scalar wind speed                                       | uas/vas         | A1a/26+27 |
|                 | humidity   | huss            | A1a/28    |
|                 | mean sea level pressure                                      | psl             | A1a /1    |
|                 | global mean sea level change (th. exp.)                      | zostoga         | O1c/2     |
| extreme Indices | frost days   | fd              | A4/1      |
|                 | extreme temperature range                                    | etr             | A4/2      |
|                 | growing season length  | gsl             | A4/3      |
|                 | heat wave duration   | hwdi            | A4/4      |
|                 | fraction of time (90 <sup>th</sup> percentile min temp)      | tn90            | A4/5      |
|                 | rain > 10 mm/d   | r10             | A4/6      |
|                 | consecutive dry days   | cdd             | A4/7      |
|                 | max. 5day precipitation                                      | r5d             | A4/8      |
|                 | simple daily intensity index                                 | sdii            | A4/9      |
|                 | fraction of annual total prec. > 95 <sup>th</sup> percentile | r95t            | A4/10     |
| optional data   | daily mean temperature variance                              |                 |           |
|                 | daily precipitation variance                                 |                 |           |
|                 | surface skin temperature/SST                                 | ts              | A1a/15    |
|                 | soil moisture (content)                                      | mrso            | A1a/5     |
|                 | large scale precipitation                                    |                 |           |
|                 | convective precipitation                                     | prc             | A1a/18    |
|                 | snow cover   | snc             | A1a/24    |
|                 | snow melt  | snm             | A1a/25    |
|                 | snow depth   | snd             | A1a/8     |
|                 | 850 hPa height   | zg              | A1c/7     |
|                 | 500 hPa height   | zg              | A1c/7     |
|                 | 200 hPa height   | zg              | A1c/7     |
|                 | 850 hPa height variance                                      |                 |           |
|                 | 500 hPa heighth variance                                     |                 |           |
|                 | 200 hPa height variance                                      |                 |           |
|                 | 850 hPa temperature  | ta              | A1c/2     |
|                 | 500 hPa temperature  | ta              | A1c/2     |
|                 | 200 hPa temperature  | ta              | A1c/2     |
|                 | 850 hPa rel. humidity  | husr            | A1c/8     |
|                 | 500 hPa rel. humidity  | husr            | A1c/8     |
|                 | 200 hPa rel. humidity  | husr            | A1c/8     |
|                 | 850 hPa u-wind   | ua              | A1c/3     |
|                 | 500 hPa u-wind   | ua              | A1c/3     |
|                 | 200hPa u-wind  | ua              | A1c/3     |
|                 | 850 hPa v-wind   | va              | A1c/4     |
|                 | 500 hPa v-wind   | va              | A1c/4     |
| 200 hPa v-wind  | va   | A1c/4           |           |
|                 |  |                 |           |
|                 | Land-sea mask  | sftlf           | A1b/2     |
|                 | Land ice area fraction                                       | stfgif          | A1b/3     |
|                 | model gridbox elevation                                      | orog            | A1b/1     |