

SUMMARY

Frequency of wet days

Madagascar regions

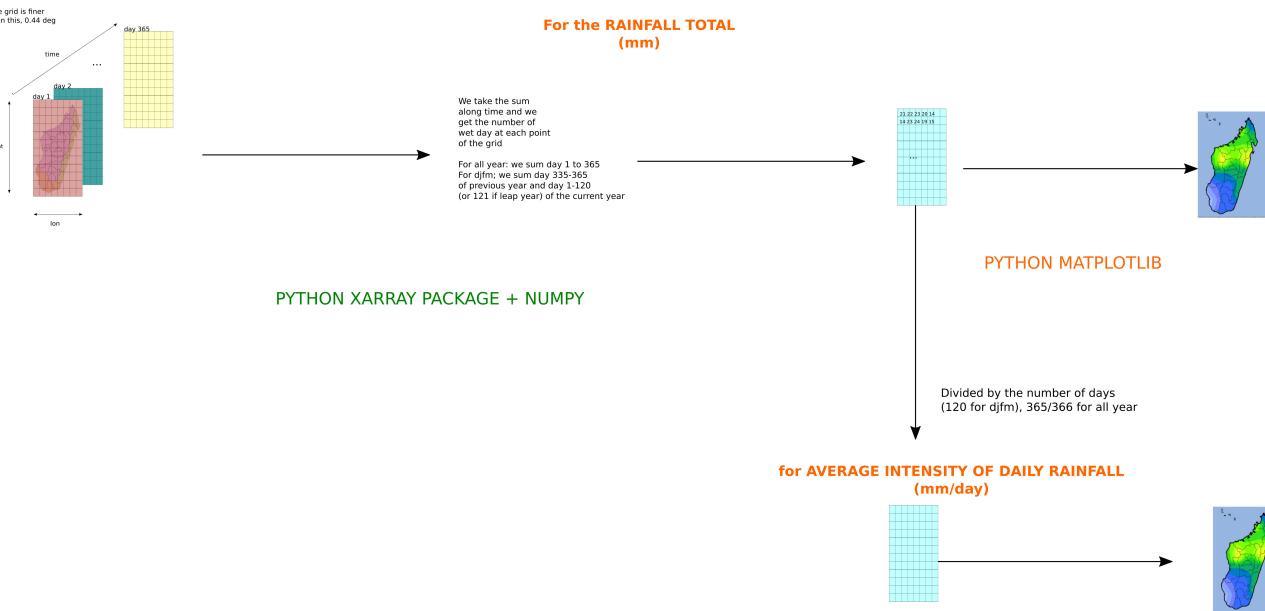
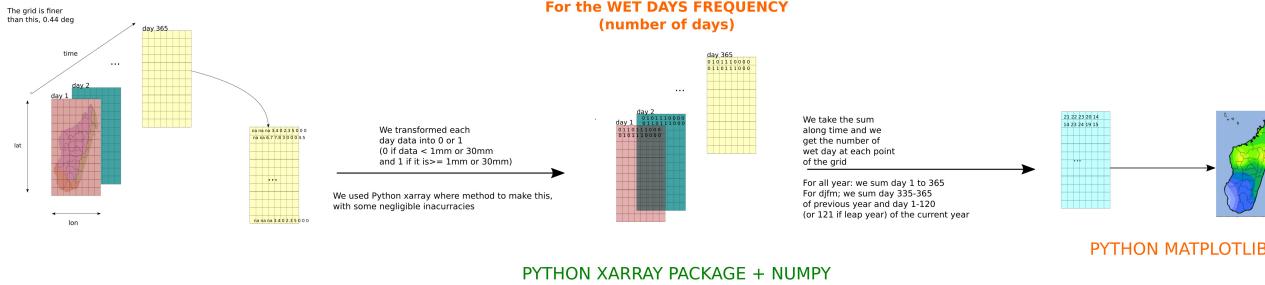
Tsinampoizina Marie Sophie Randriamahefasona

06 July 2020

Definition of a wet day

A day with precipitation more than 1 mm
 $\text{rain} \geq 1\text{mm}$

Methodology used



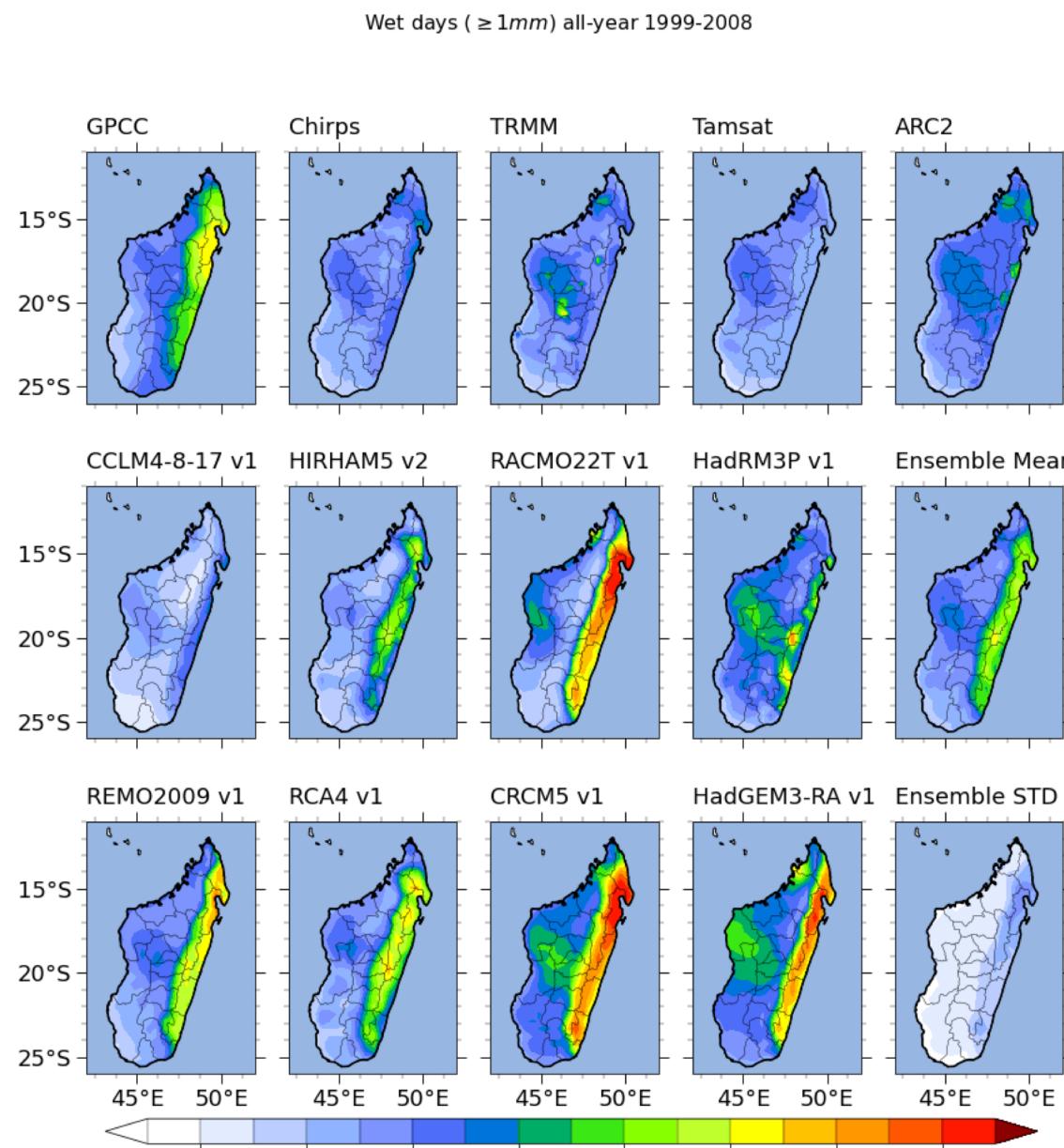
Climatology of wet days frequency 1999-2008

Rainfall data from:

- .GPCC
- .CHIRPS
- .TRMM
- .TAMSAT
- .ARC2
- .CORDEX models
 - CCLM4-8-17-v1
 - HIRHAM5 v2
 - RACMO22T v1
 - HadRM3P v1
 - REMO2009 v1
 - CRCMS v1
 - HadGEM3-RA v1

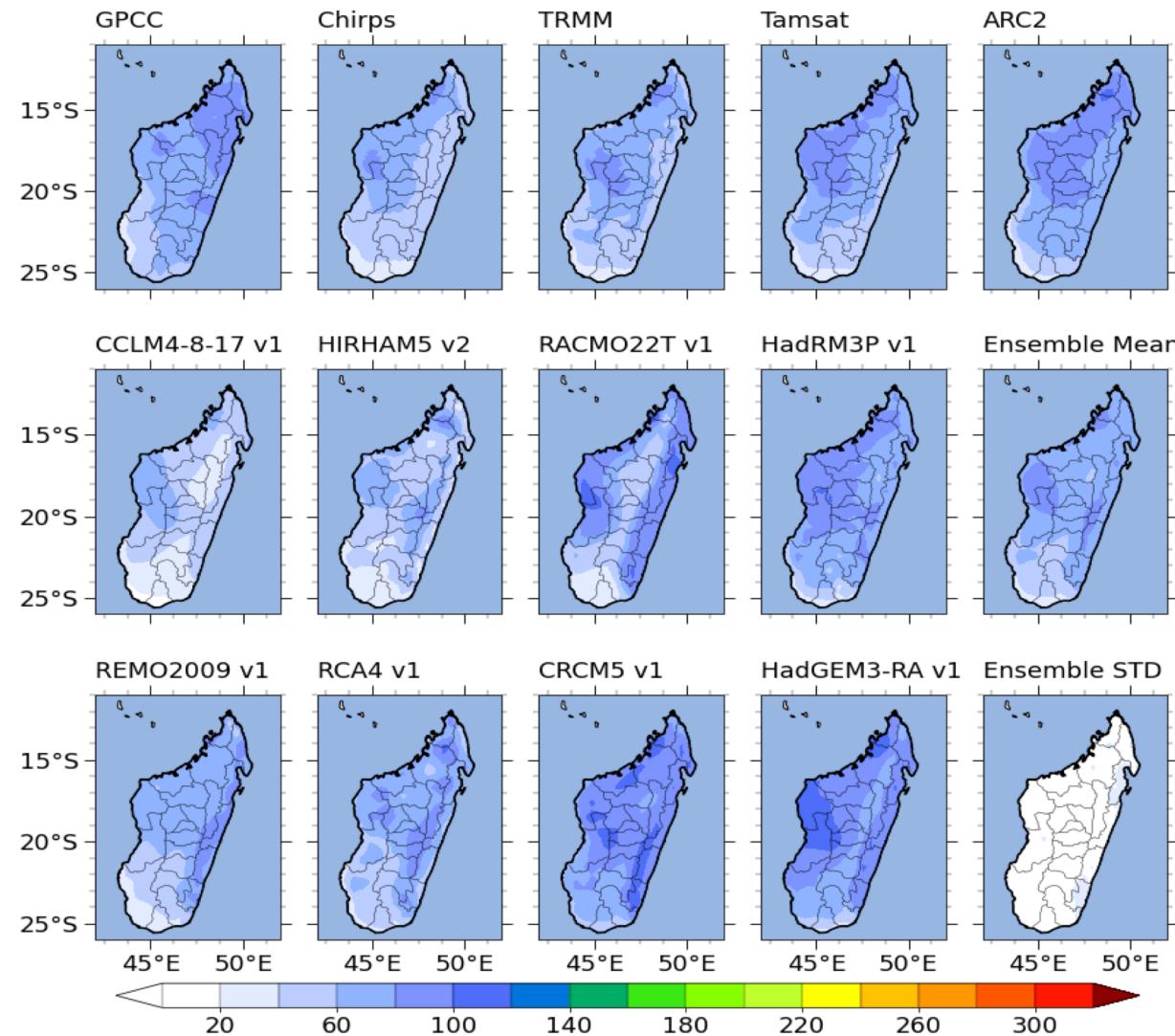
Additional Plots:

- . Ensemble Mean of the models data
- . Ensemble Standard deviation (STD)



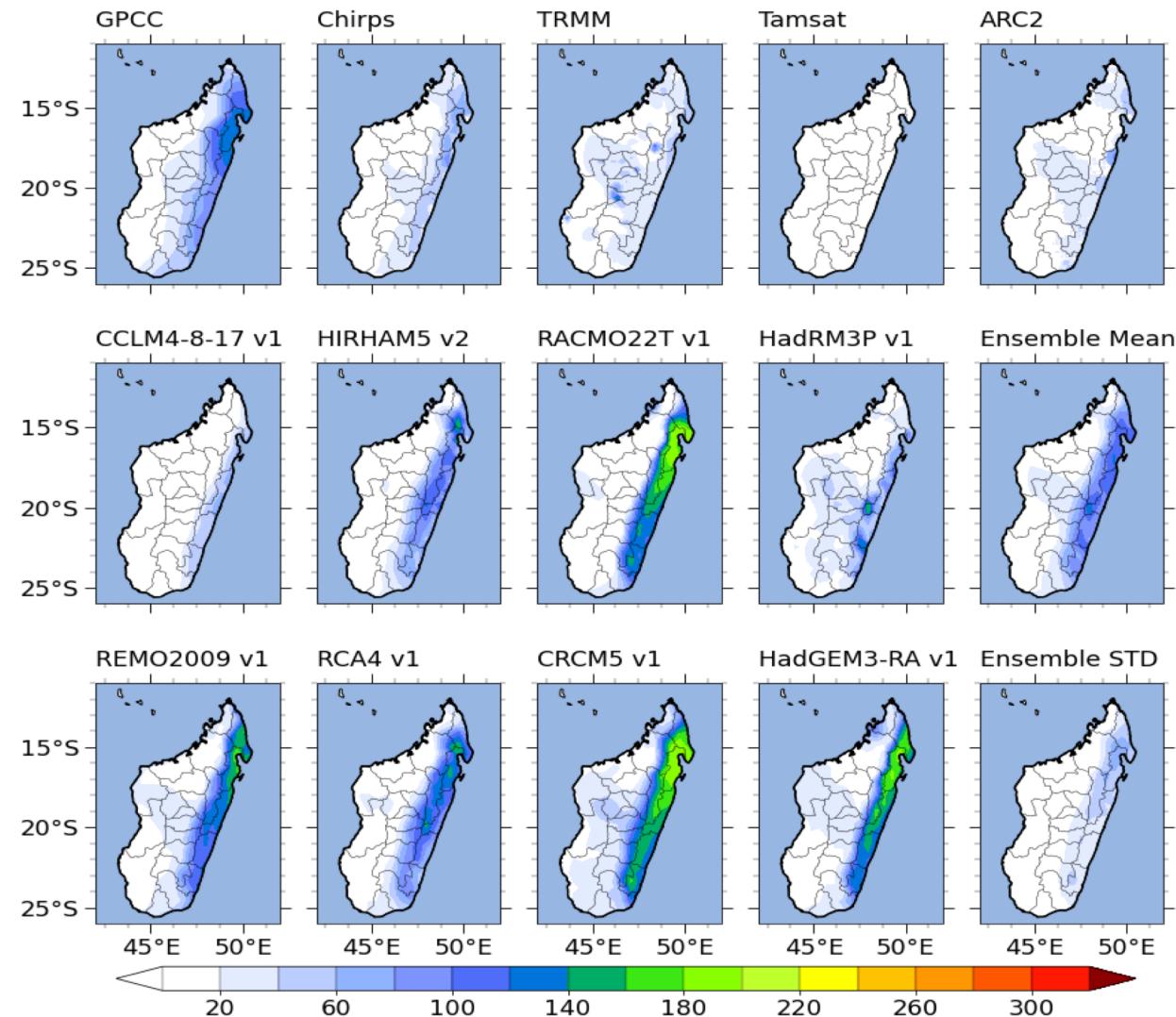
Climatology of wet days frequency
for December to March
1999-2008

Wet days ($\geq 1\text{mm}$) DJFM 1999-2008



Climatology of wet days frequency
for April to October
1999-2008

Wet days ($\geq 1\text{mm}$) Apr-Oct 1999-2008



Definition of a heavy rain day

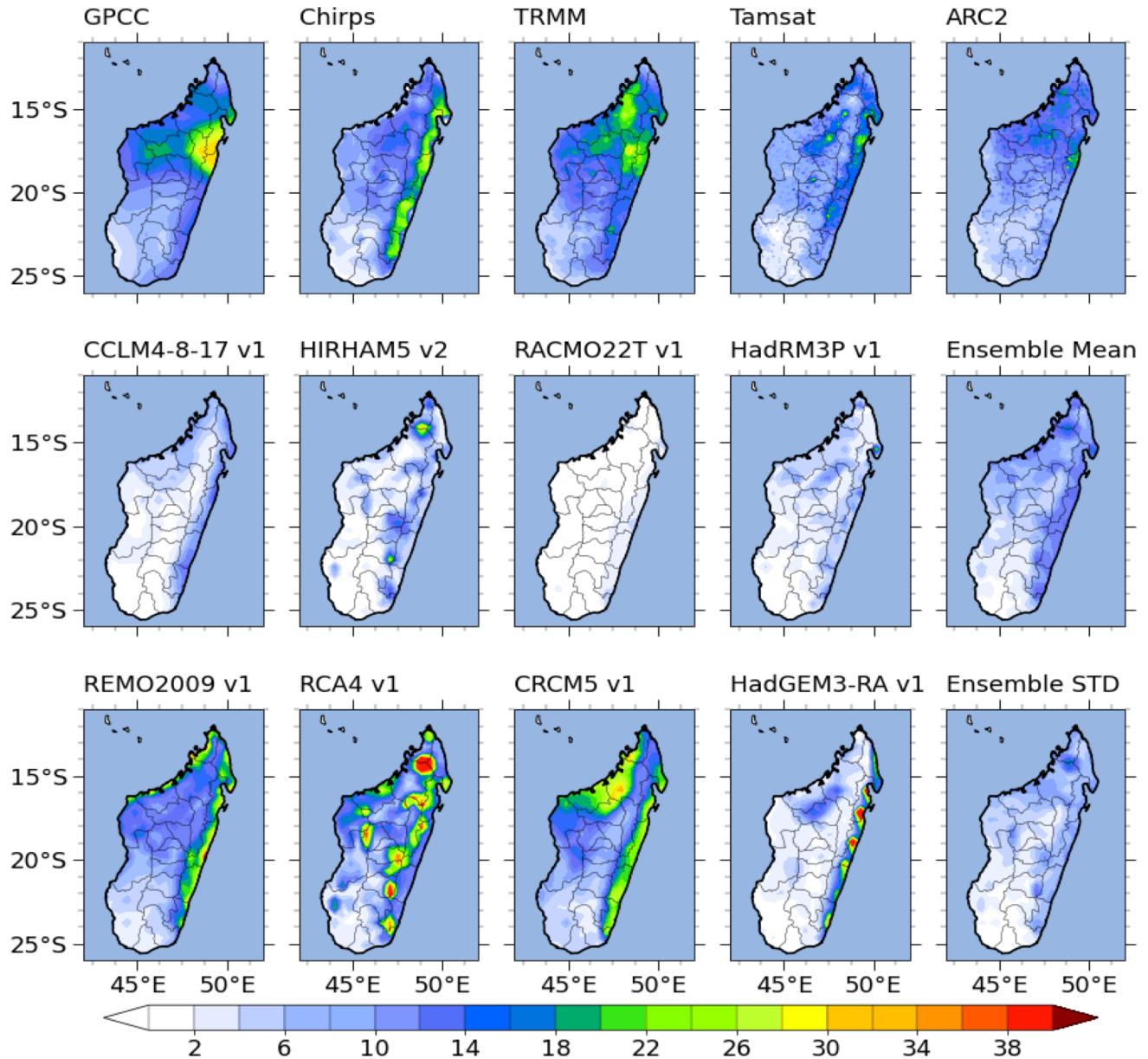
Heavy rain day with precipitation $\geq 30\text{mm}$

Climatology of heavy rain day frequency 1999-2008

Rainfall data from:

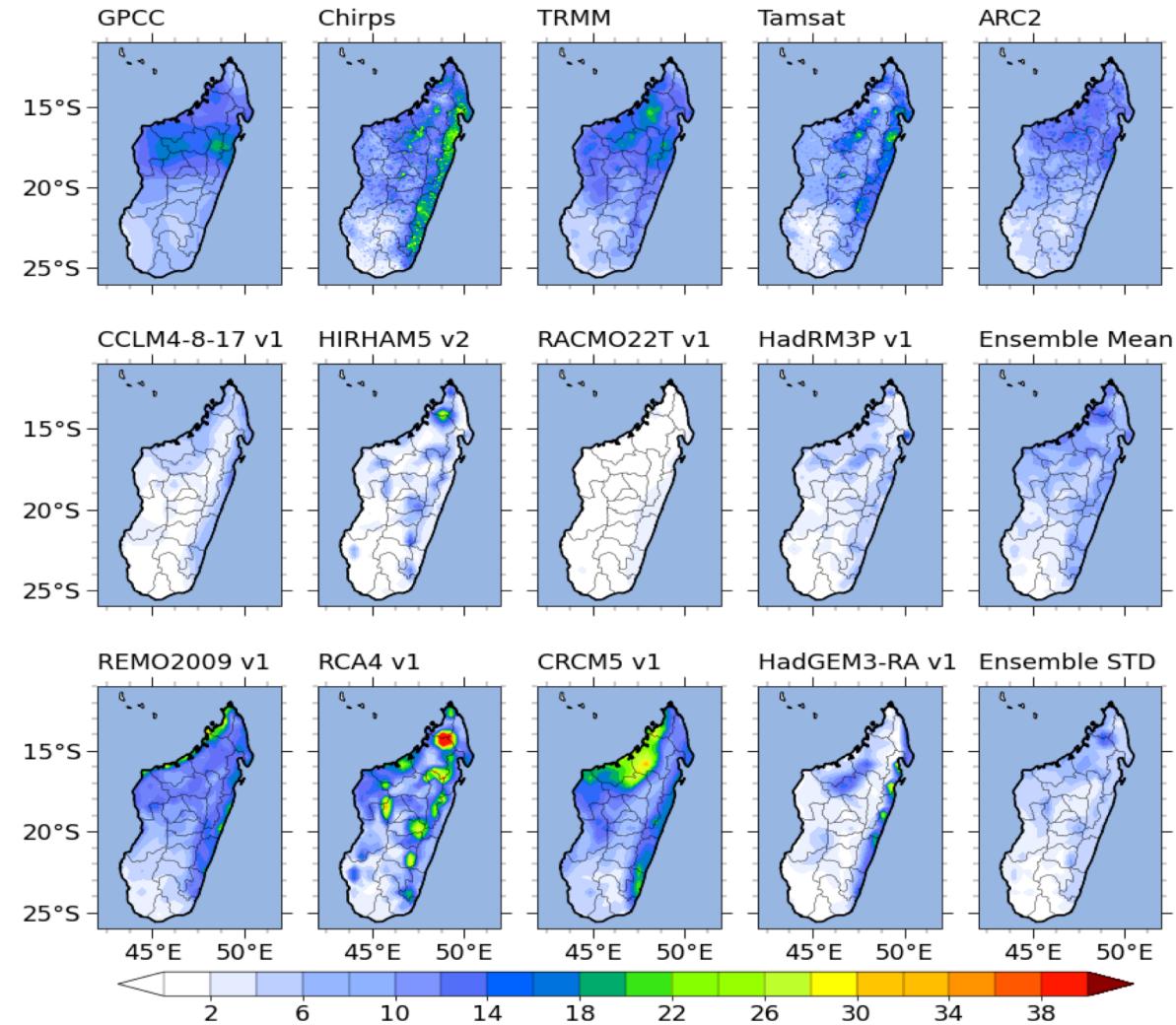
- .GPCC
- . CHIRPS
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 - CCLM4-8-17-v1
 - HIRHAM5 v2
 - RACMO22T v1
 - HadRM3P v1
 - REMO2009 v1
 - CRCMS v1
 - HadGEM3-RA v1

Heavy rain days ($\geq 30\text{mm}$) all-year 1999-2008



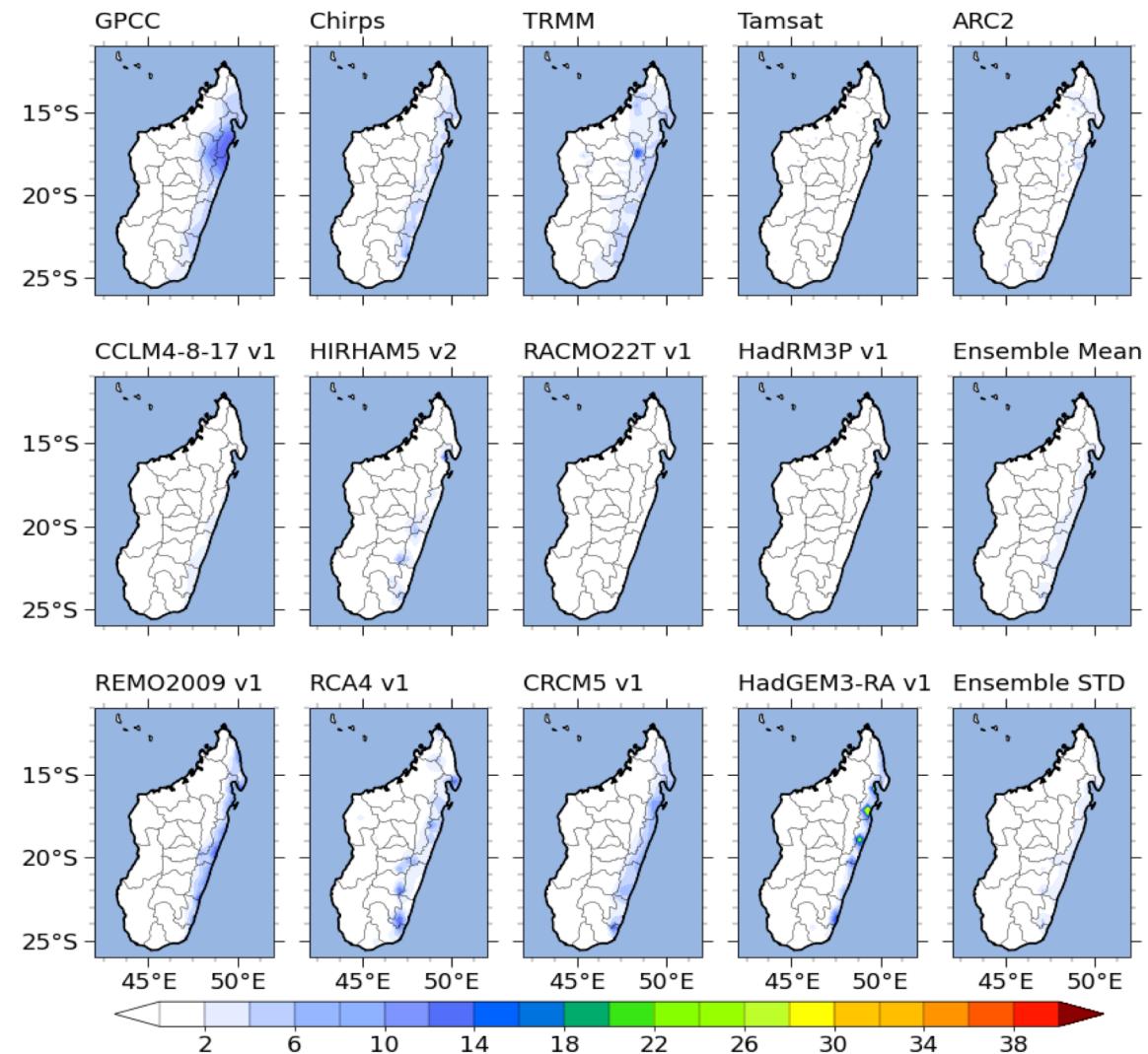
Climatology of heavy rain day frequency
for December to March
1999-2008

Heavy rain days ($\geq 30mm$) DJFM 1999-2008



Climatology of heavy rain day frequency
for April to October
1999-2008

Heavy rain days ($\geq 30mm$) Apr-Oct 1999-2008



Total Precipitation amount (mm)

Rainfall data from:

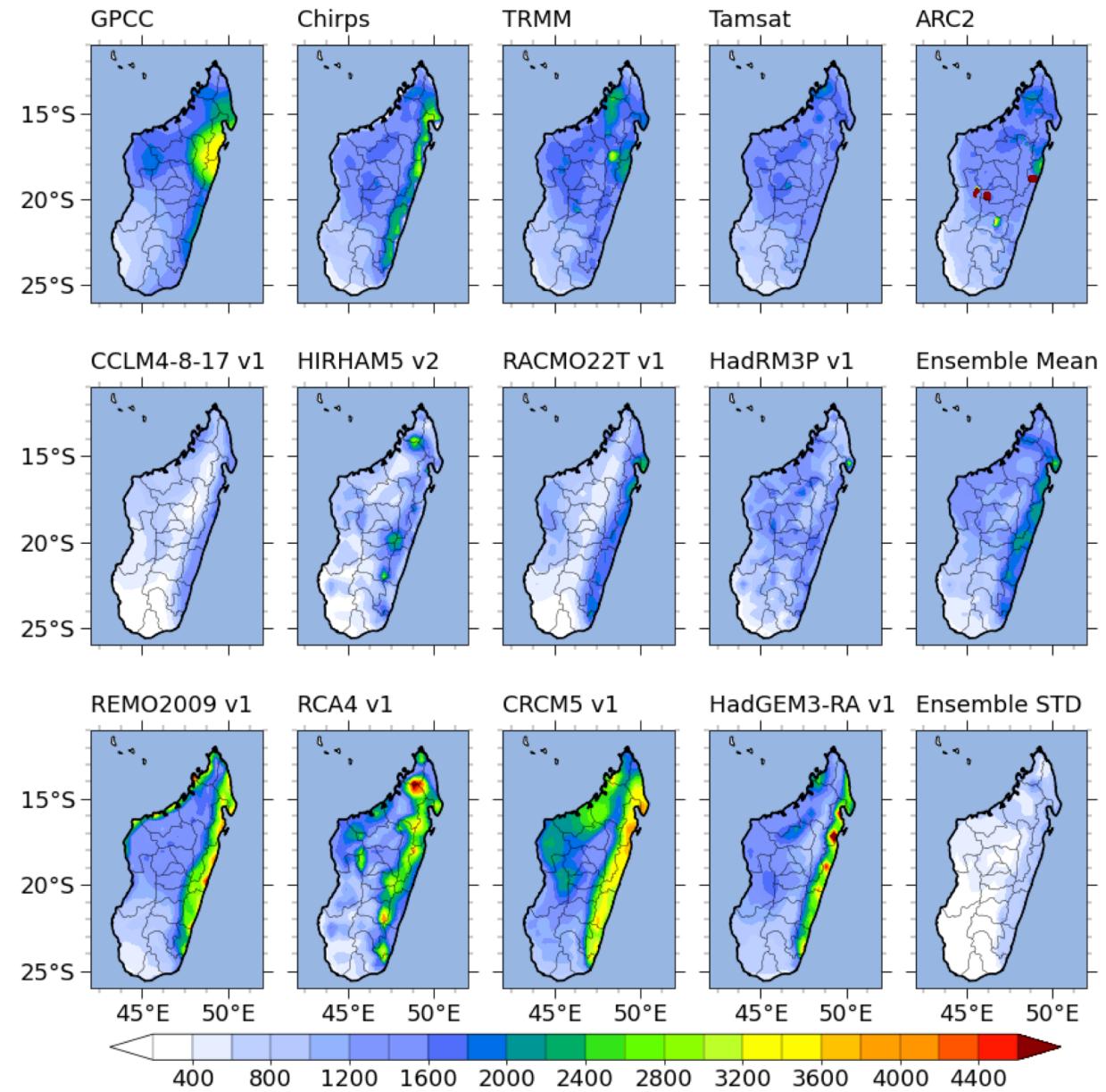
- .GPCC
- . CHIRPS
- .TRMM
- .TAMSAT
- .ARC2
- . CORDEX models
 - CCLM4-8-17-v1
 - HIRHAM5 v2
 - RACM022T v1
 - HadRM3P v1
 - REMO2009 v1
 - CRCMS v1
 - HadGEM3-RA v1

Additional Plots:

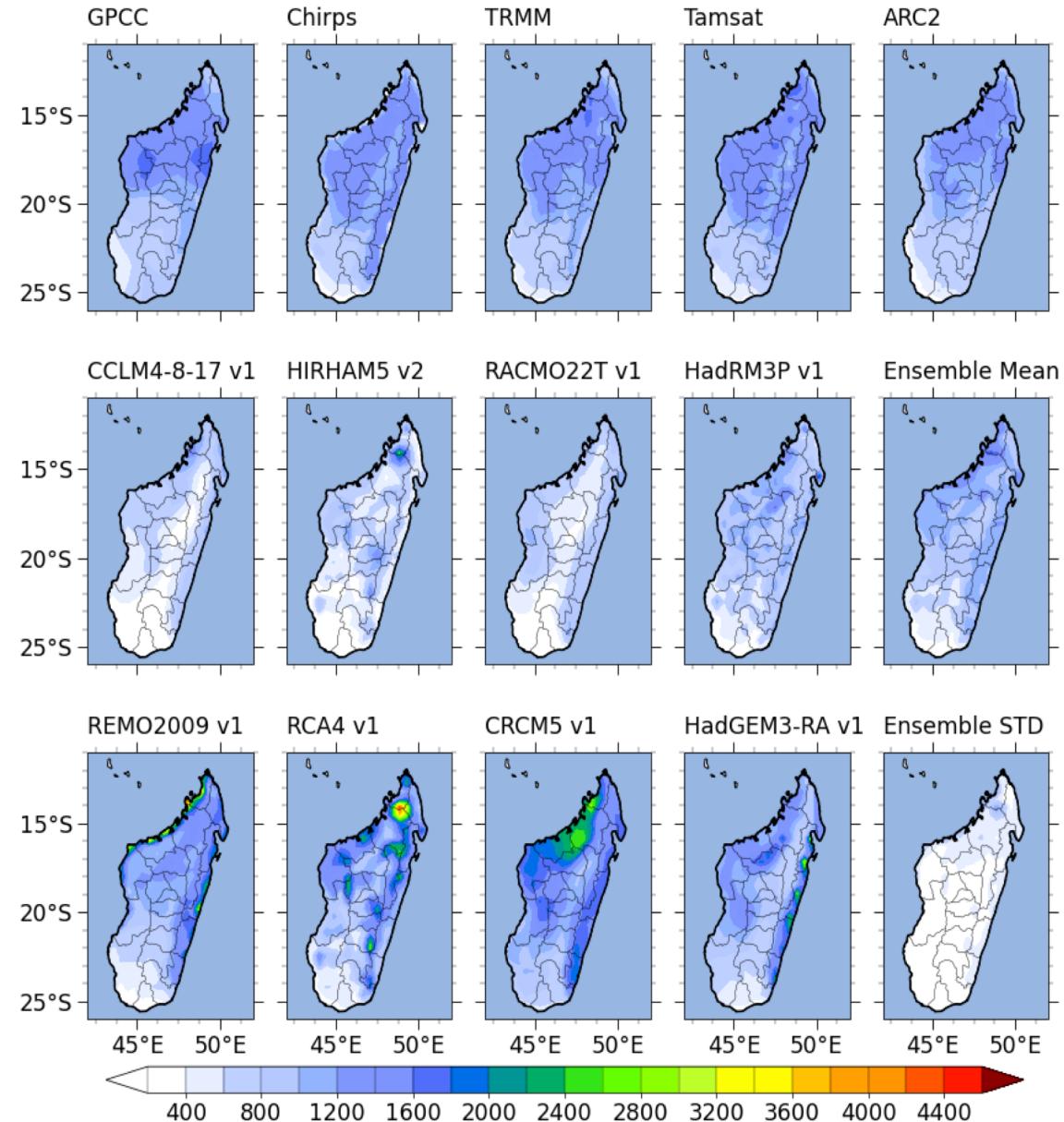
- . Ensemble Mean of the models data
- . Ensemble Standard deviation (STD)

TOTAL-RAINFALL all-year 1999-2008

Climatology of total precipitation (mm)
1999-2008



Climatology of total precipitation (mm)
for December to March
1999-2008



Climatology of total precipitation (mm)
for April to October
1999-2008

TOTAL-RAINFALL Apr-Oct 1999-2008

