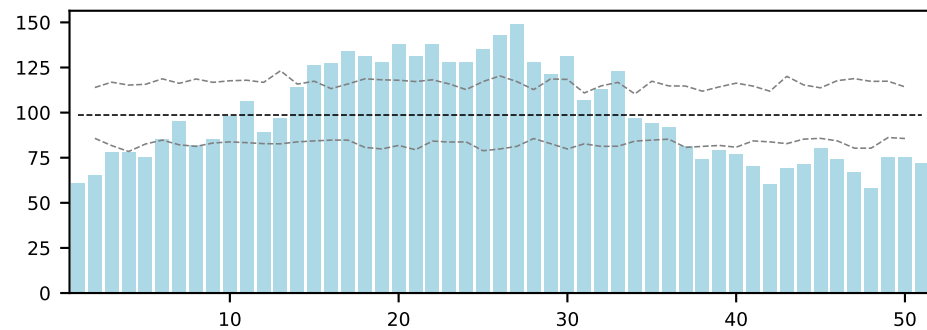


vortex angle 50hPa

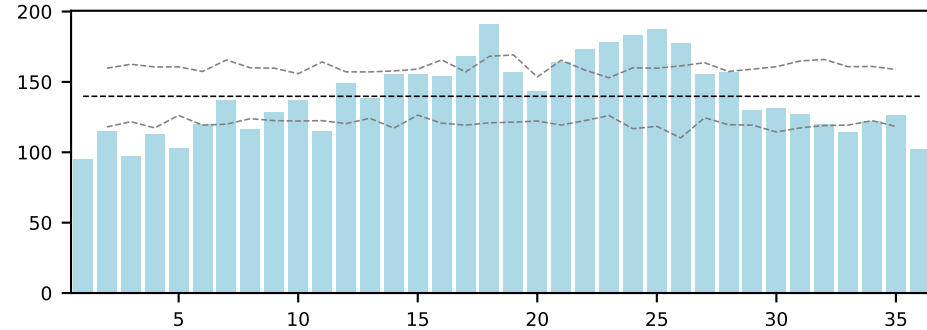
A

CanESM2
 χ^2 : 364.11
Bias: 22.78 Spread: 272.76



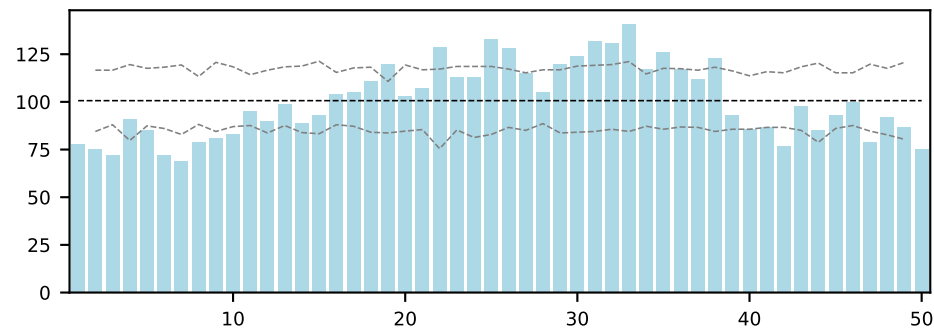
B

CanESM5
 χ^2 : 180.37
Bias: 12.70 Spread: 118.37



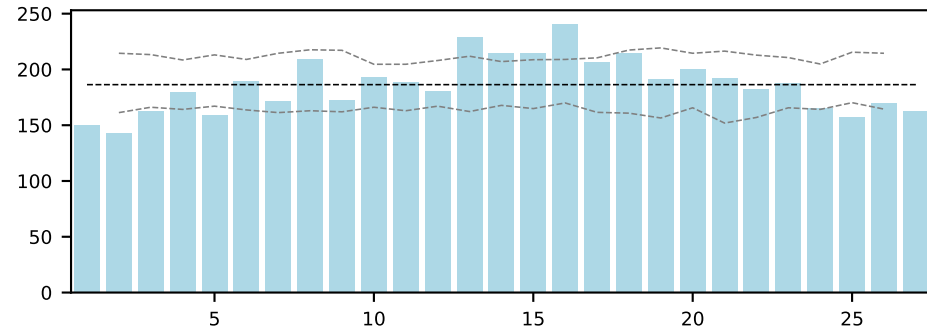
C

CESM2
 χ^2 : 182.05
Bias: 10.15 Spread: 119.85



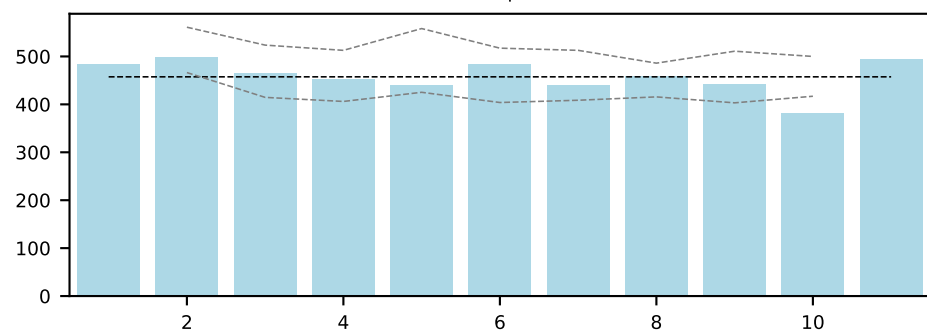
D

CNRM-CM6-1
 χ^2 : 83.76
Bias: 2.64 Spread: 57.30



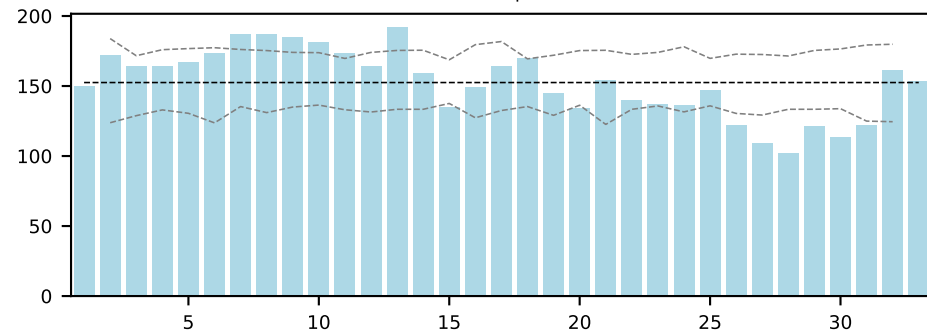
E

INM-CM5-0
 χ^2 : 24.28
Bias: 4.50 Spread: 0.58



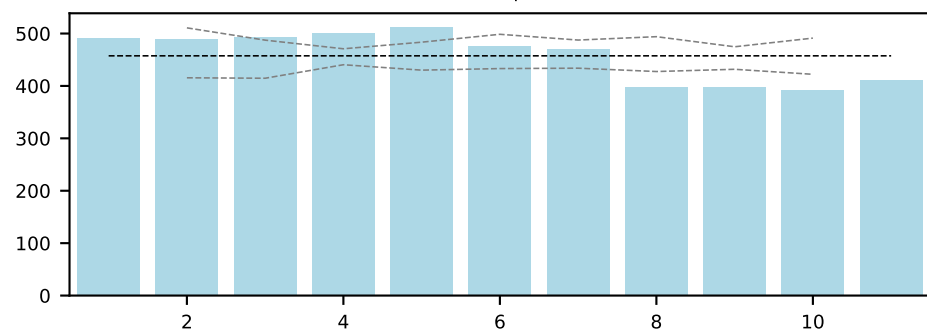
F

IPSL-CM6A-LR
 χ^2 : 121.13
Bias: 59.43 Spread: 1.46



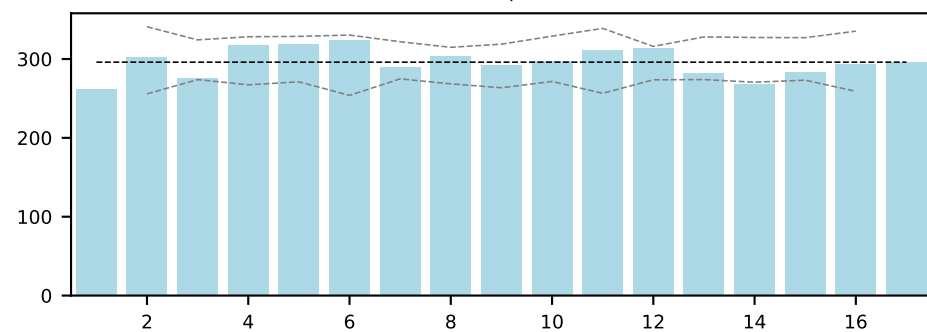
G

MIROC6
 χ^2 : 49.28
Bias: 34.84 Spread: 4.23



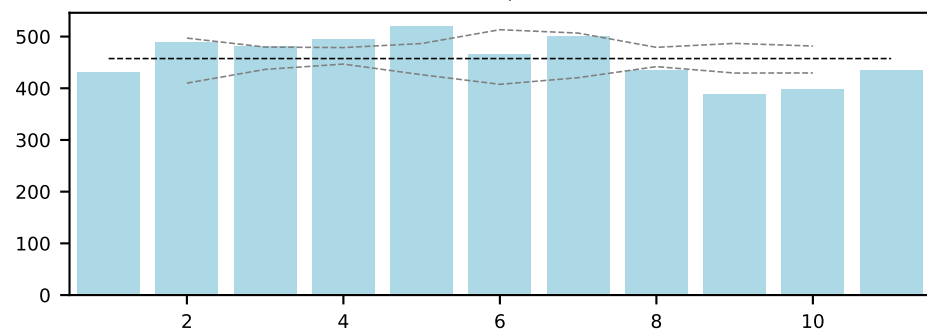
H

UKESM1-0-LL
 χ^2 : 17.66
Bias: 0.18 Spread: 2.41



I

MPI-ESM1-2-HR
 χ^2 : 41.38
Bias: 11.30 Spread: 11.06



J

MPI-ESM1-2-LR
 χ^2 : 72.42
Bias: 7.00 Spread: 41.32

