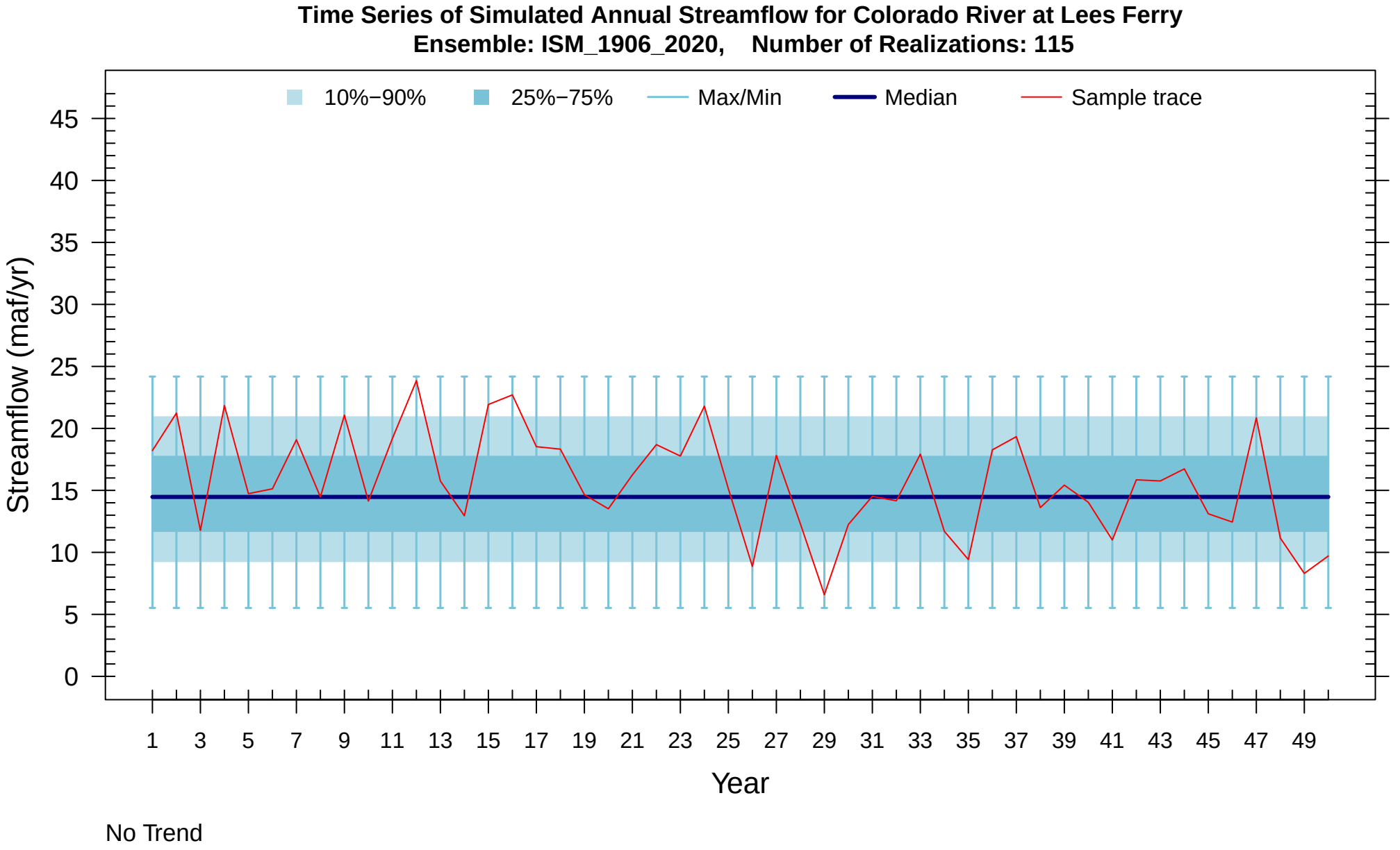
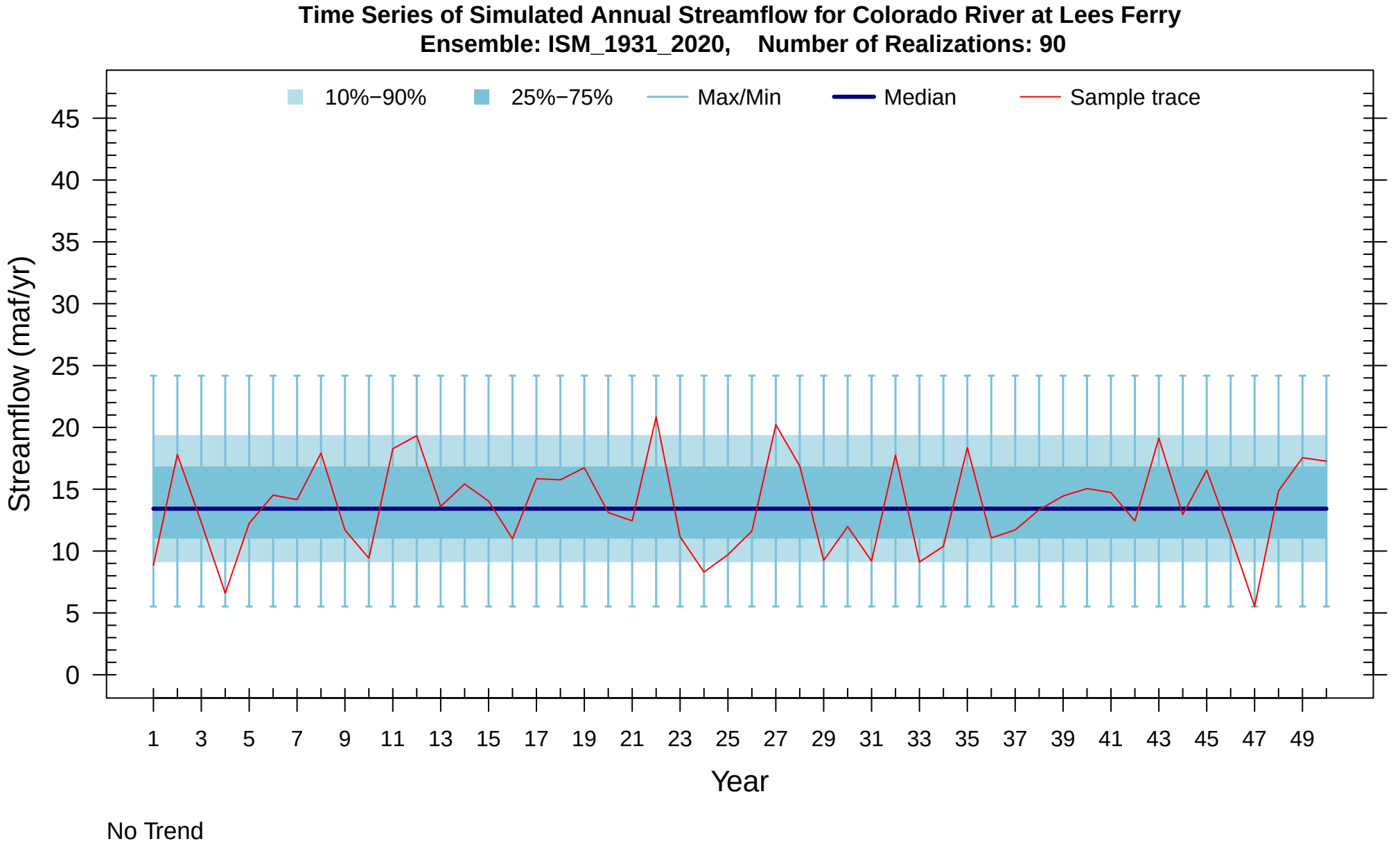
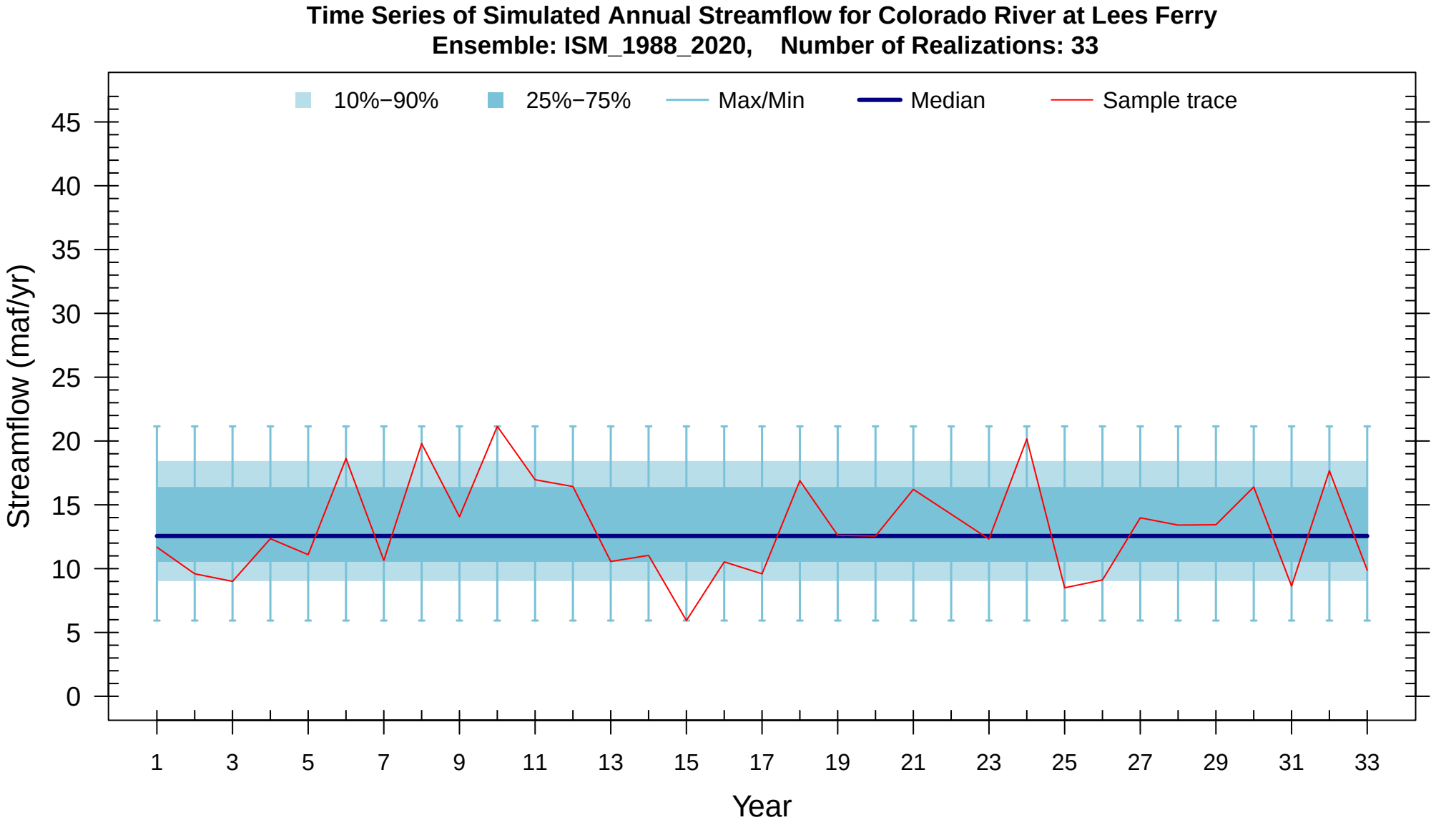
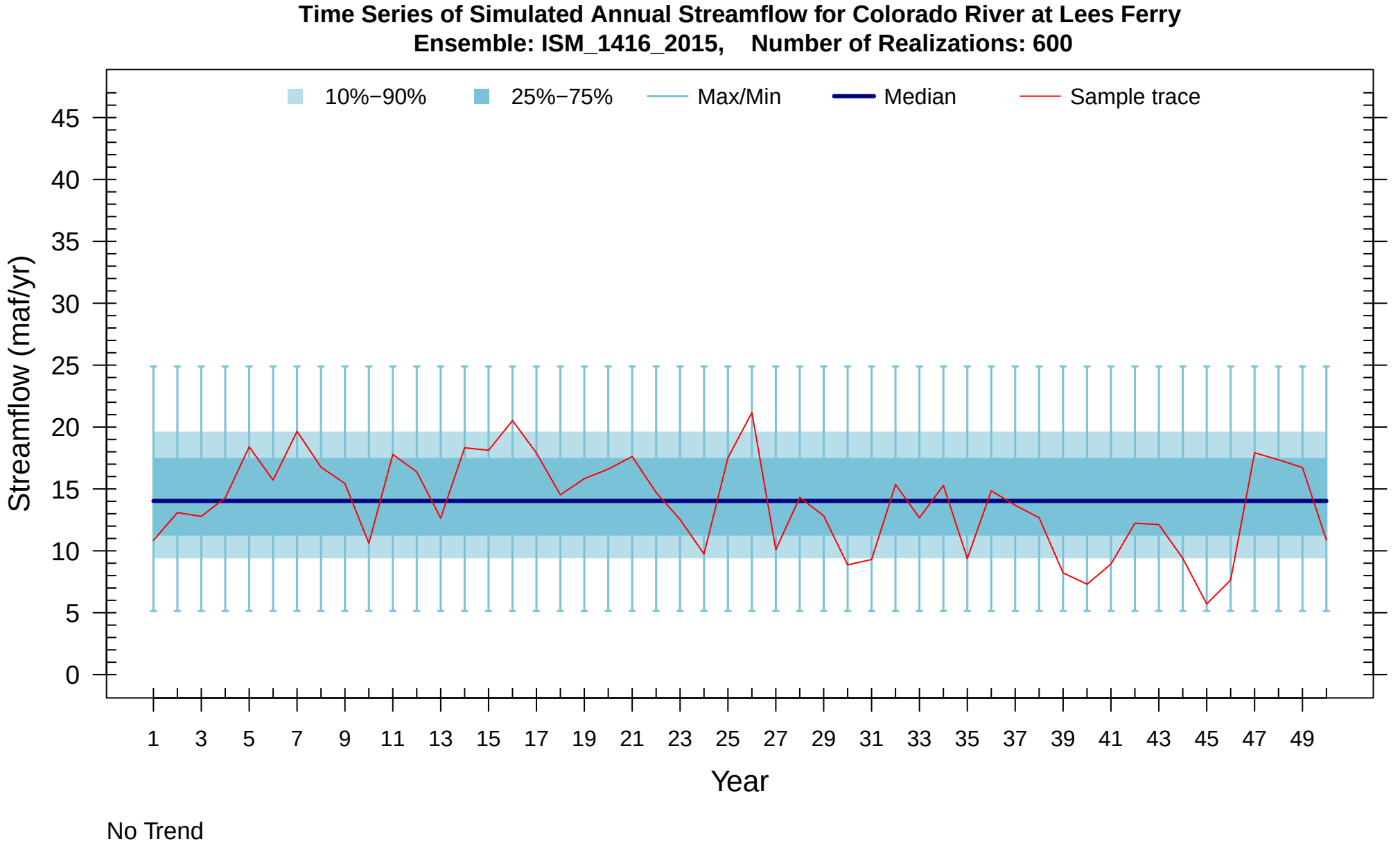
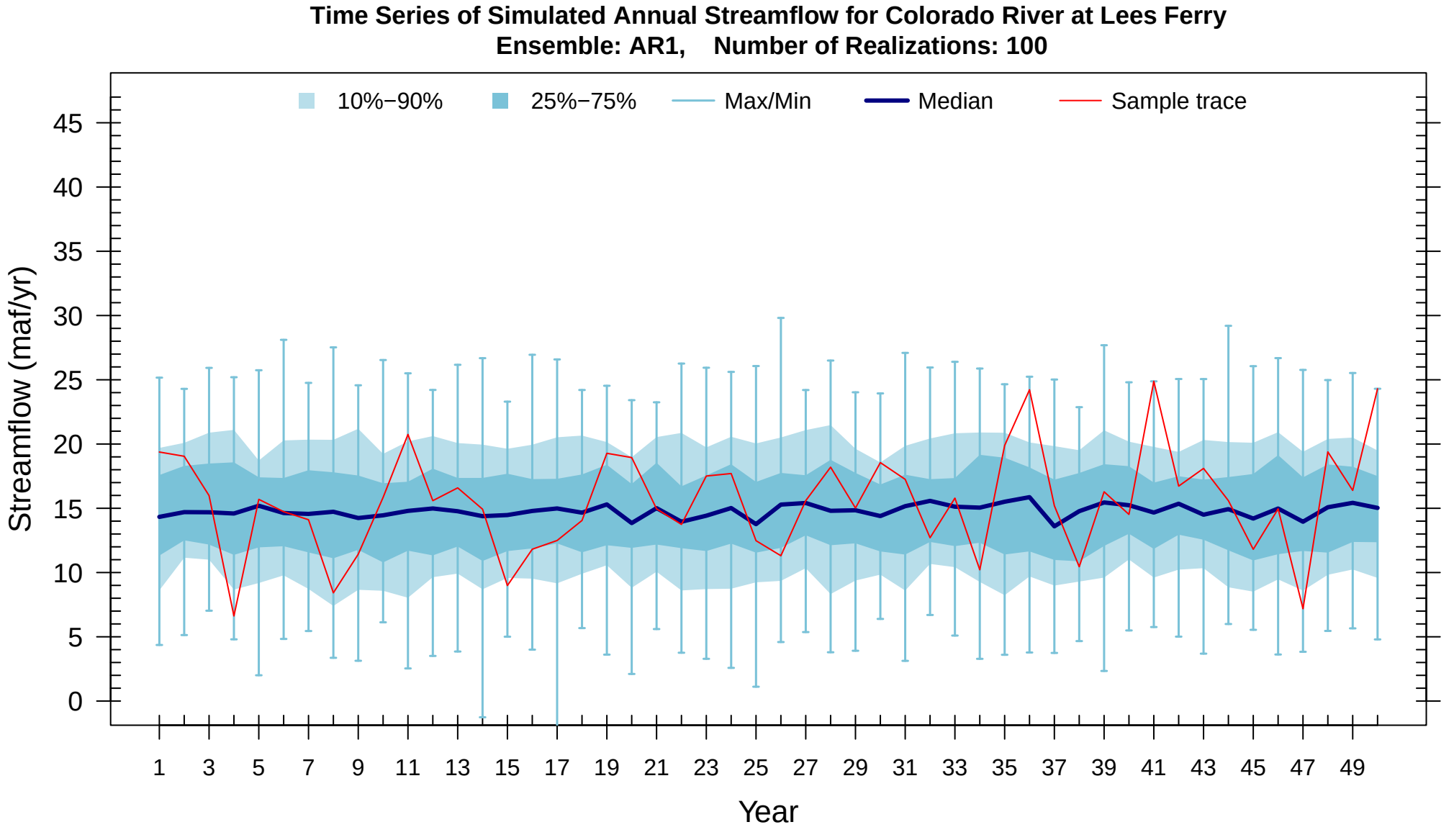

Time Series of Simulated Annual Streamflow for Colorado River at Lees Ferry
Ensemble: ISM_1906_2020, Number of Realizations: 115
10%−90%
25%−75%
Max/Min
Median
Sample trace
Streamflow (maf/yr)
0
5
10
15
20
25
30
35
40
45
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
Year
No Trend


Time Series of Simulated Annual Streamflow for Colorado River at Lees Ferry
Ensemble: ISM_1931_2020, Number of Realizations: 90
10%−90%
25%−75%
Max/Min
Median
Sample trace
Streamflow (maf/yr)
0
5
10
15
20
25
30
35
40
45
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
Year
No Trend

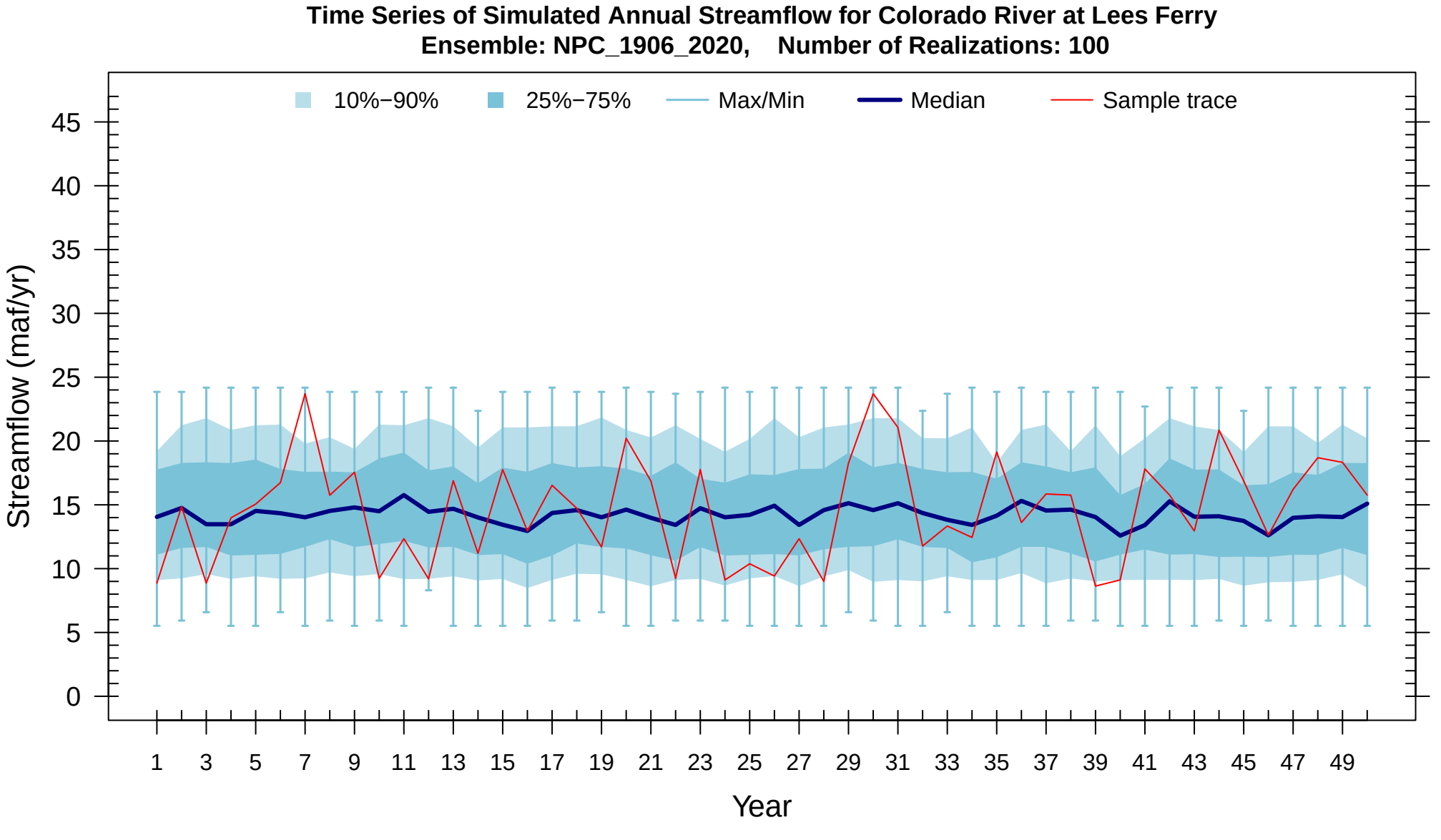

Time Series of Simulated Annual Streamflow for Colorado River at Lees Ferry
Ensemble: ISM_1988_2020, Number of Realizations: 33
10%−90%
25%−75%
Max/Min
Median
Sample trace
Streamflow (maf/yr)
0
5
10
15
20
25
30
35
40
45
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
Year

No Trend

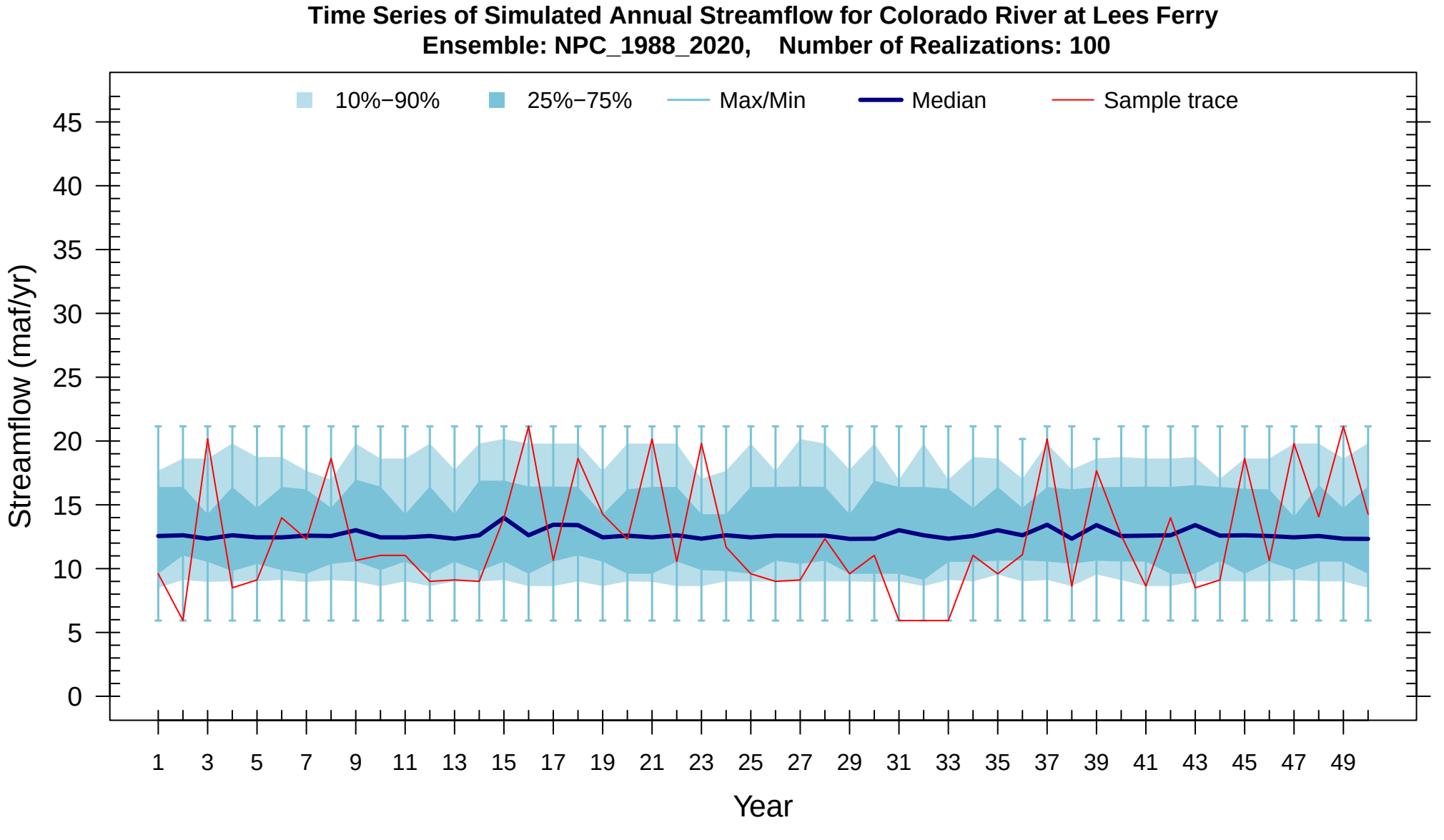

Time Series of Simulated Annual Streamflow for Colorado River at Lees Ferry
Ensemble: ISM_1416_2015, Number of Realizations: 600
10%−90%
25%−75%
Max/Min
Median
Sample trace
Streamflow (maf/yr)
0
5
10
15
20
25
30
35
40
45
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
33
35
37
39
41
43
45
47
49
Year
No Trend



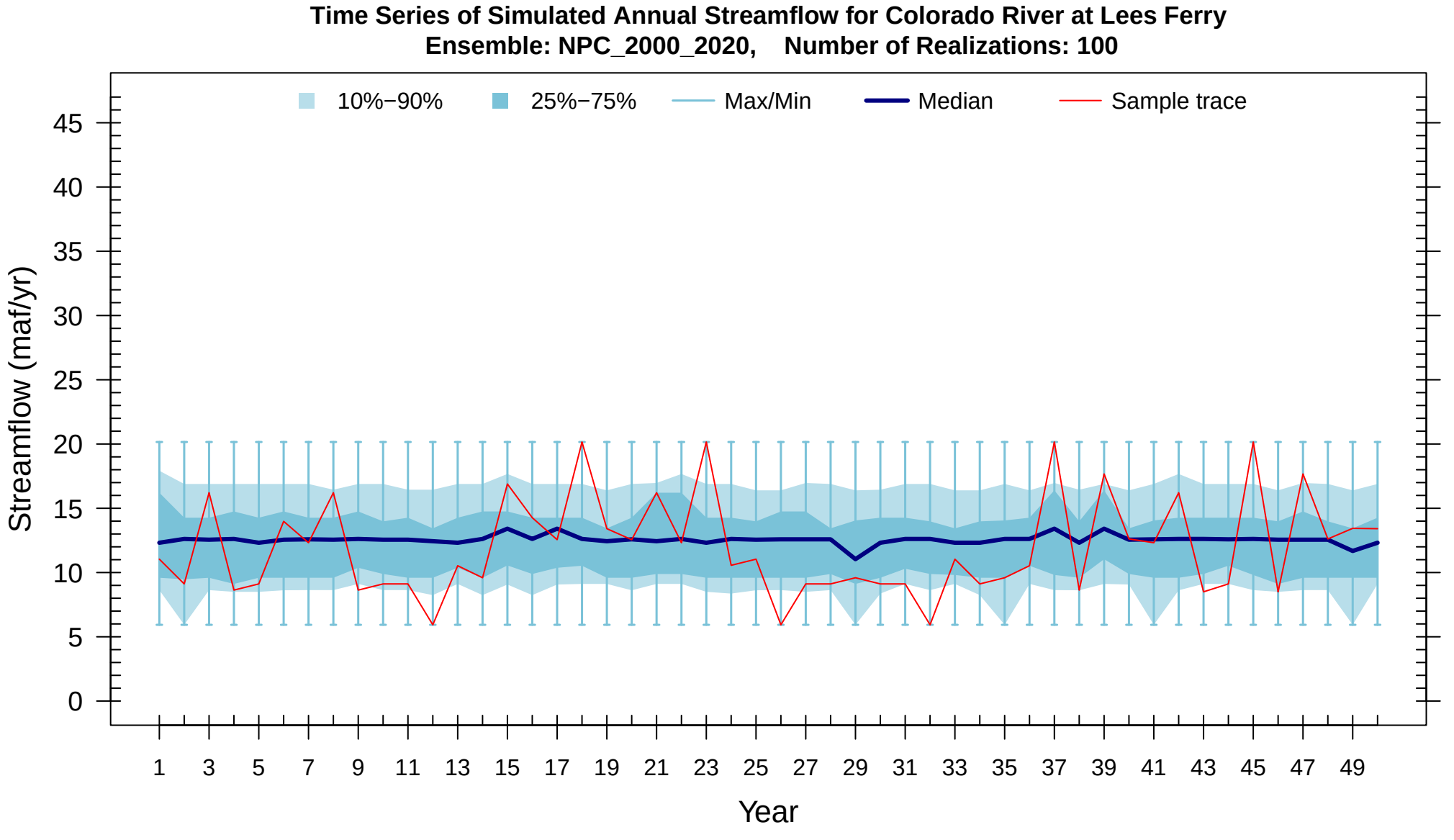
Mann−Kendall Trend Test: Tau = 0.22, P−Value = 0.0272
Trend = 0.0078 maf/yr, Statistically Significant



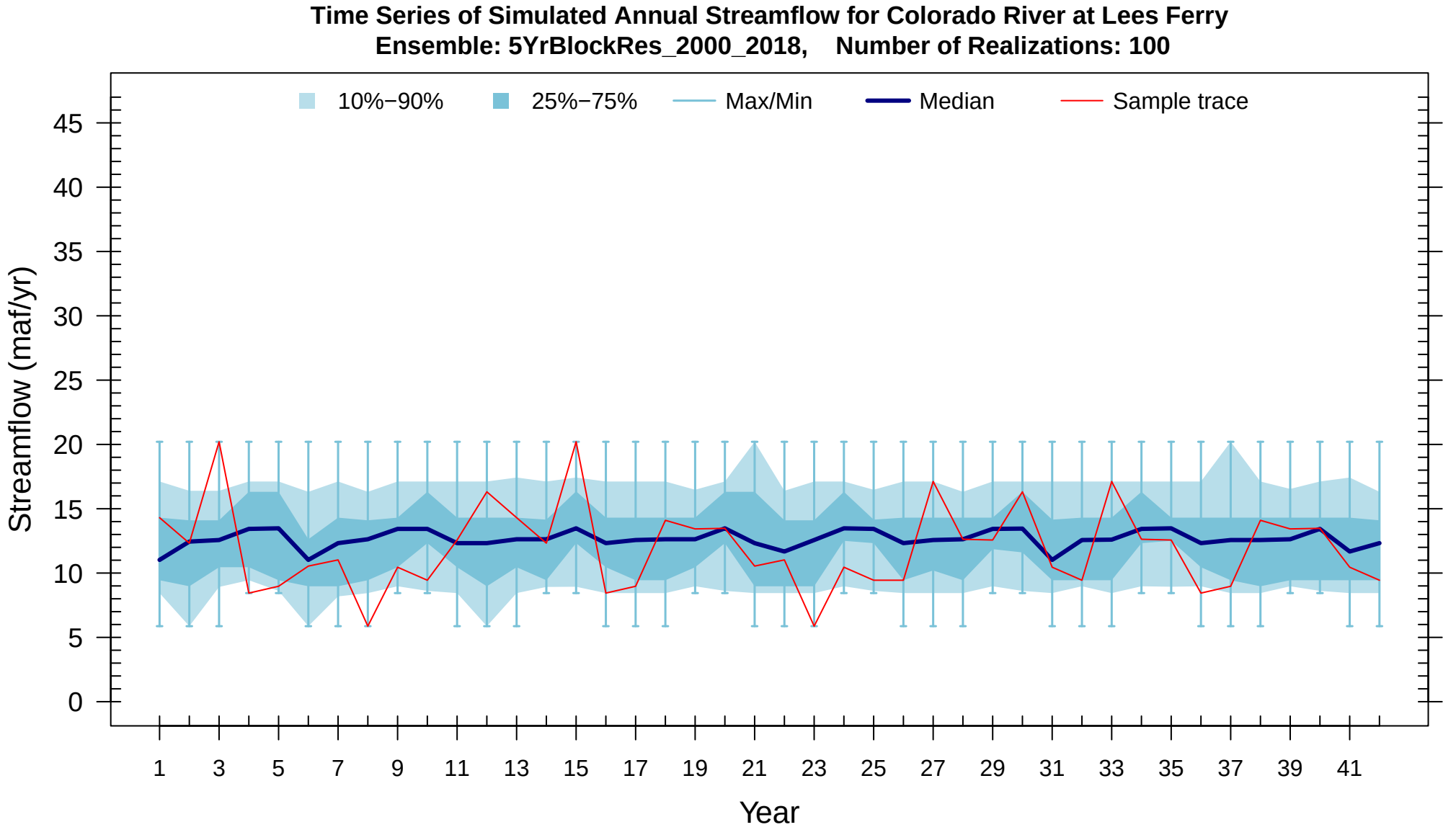
Mann−Kendall Trend Test: Tau = −0.06, P−Value = 0.5523
Trend = −0.0047 maf/yr, Not Statistically Significant



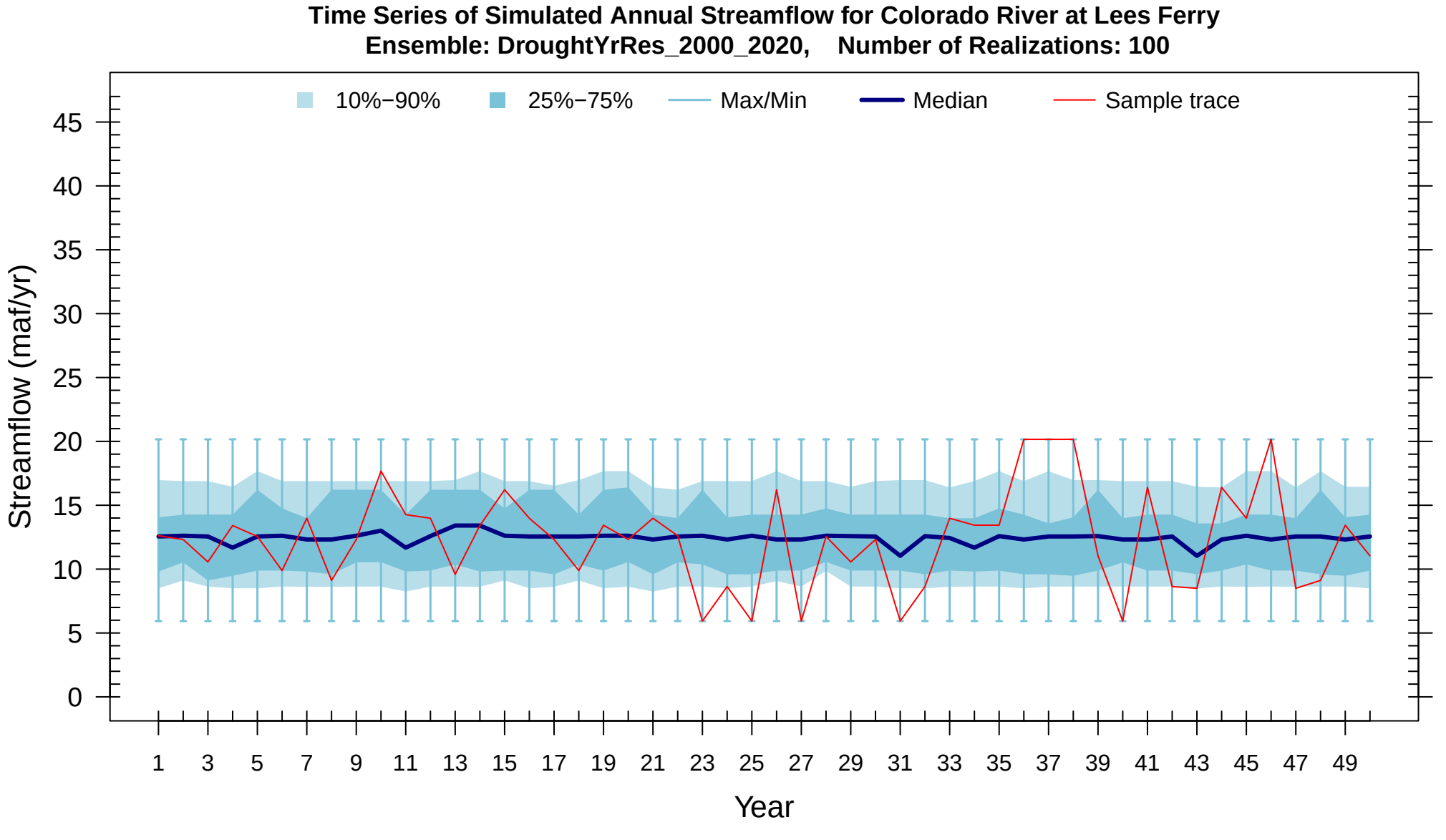
Mann−Kendall Trend Test: Tau = −0.01, P−Value = 0.8923
Trend = 4e−04 maf/yr, Not Statistically Significant



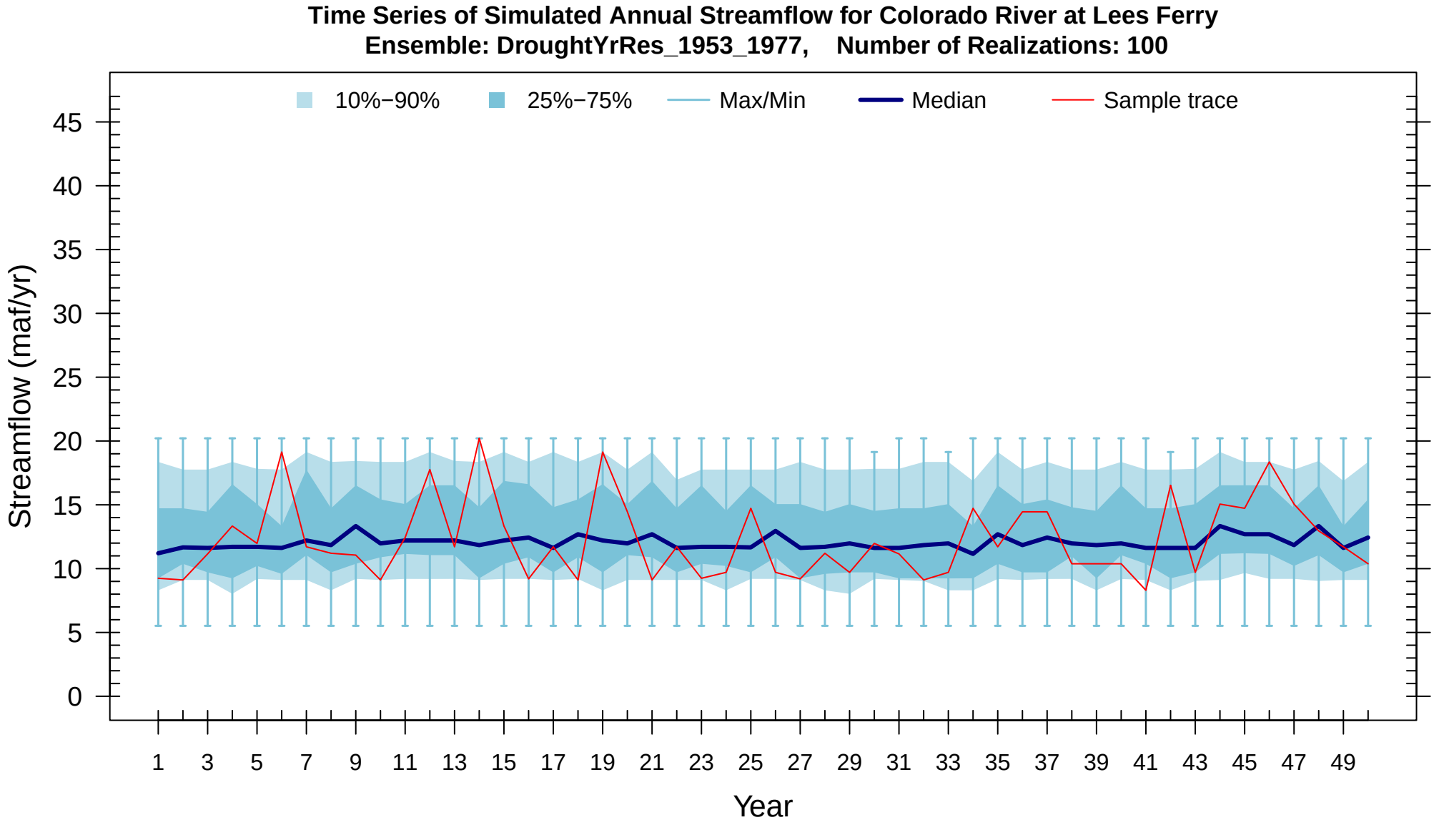
Mann−Kendall Trend Test: Tau = −0.02, P−Value = 0.8639
Trend = −0.0017 maf/yr, Not Statistically Significant



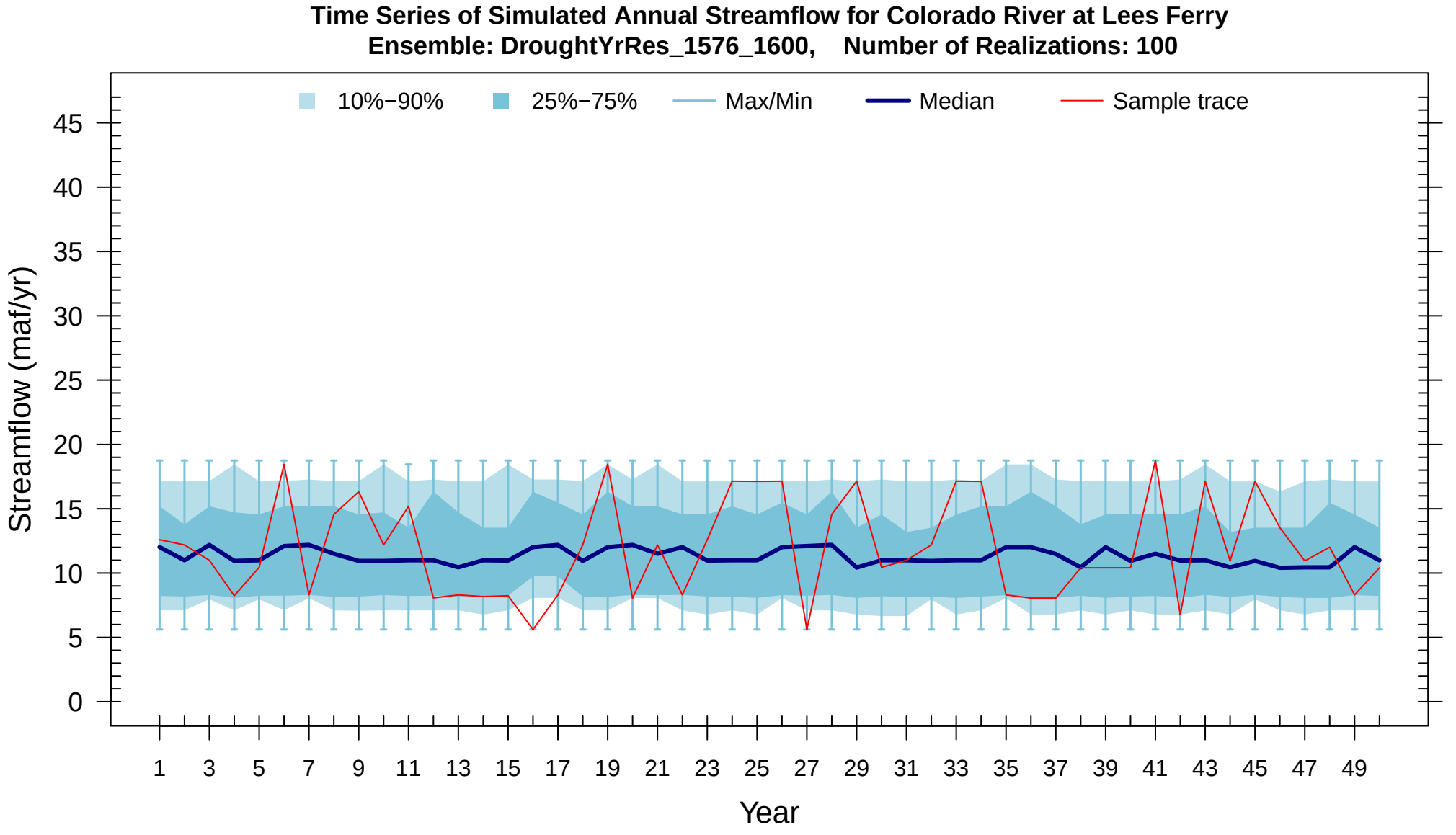
Mann−Kendall Trend Test: Tau = 0.03, P−Value = 0.8176
Trend = 0.0041 maf/yr, Not Statistically Significant



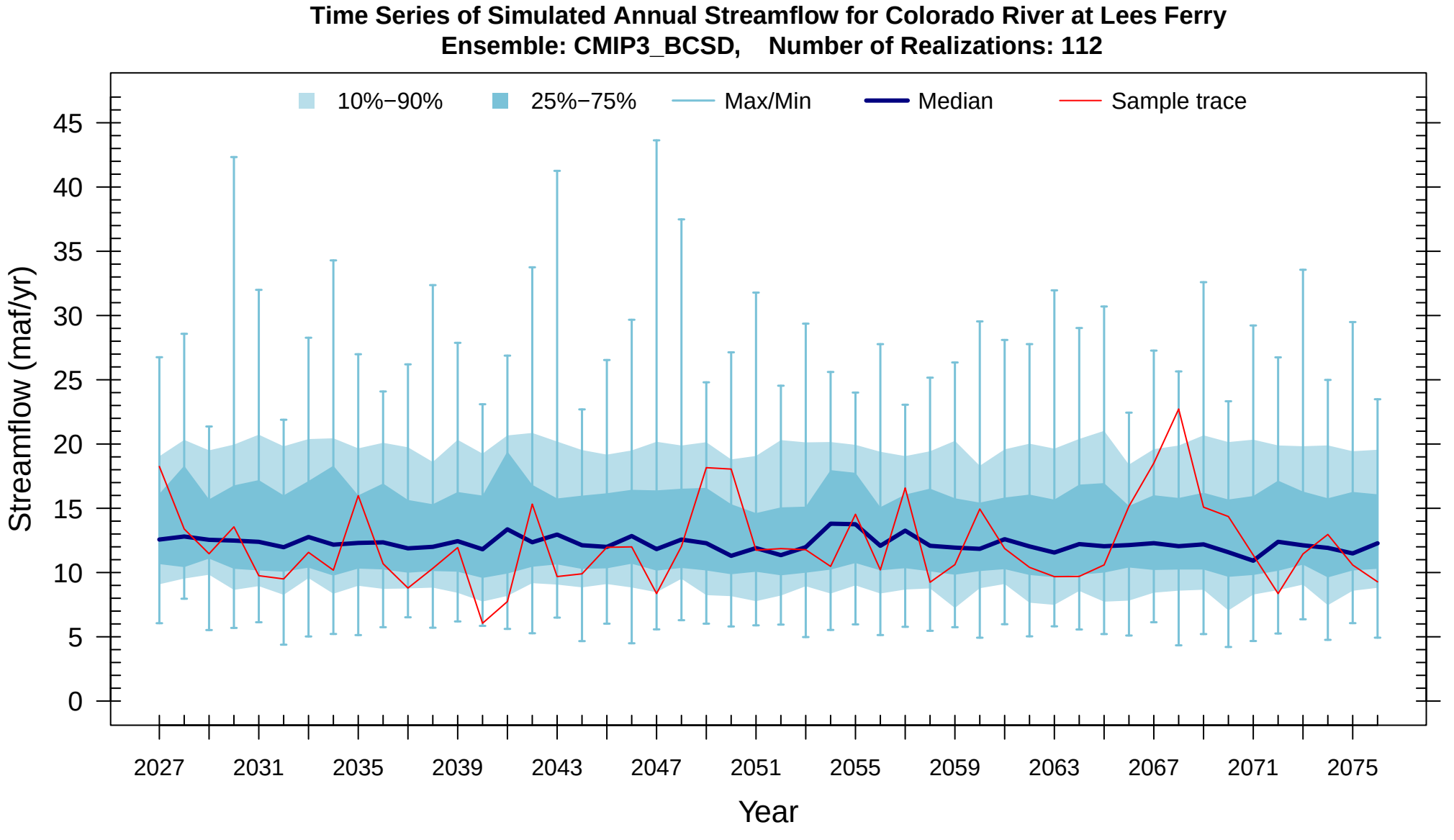
Mann−Kendall Trend Test: Tau = −0.2, P−Value = 0.0558
Trend = −0.0055 maf/yr, Not Statistically Significant



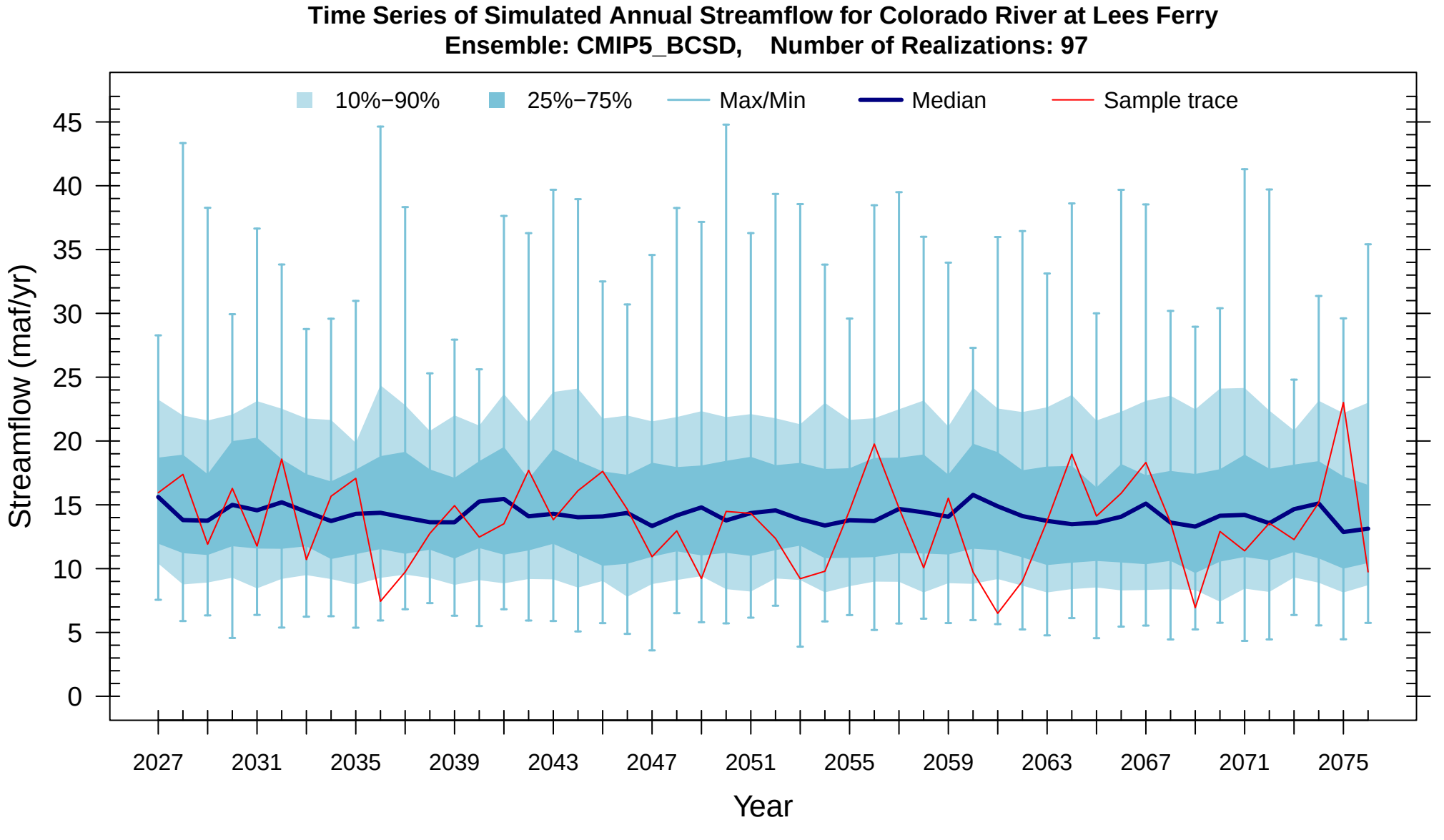
Mann−Kendall Trend Test: Tau = 0.1, P−Value = 0.3482
Trend = 0.007 maf/yr, Not Statistically Significant



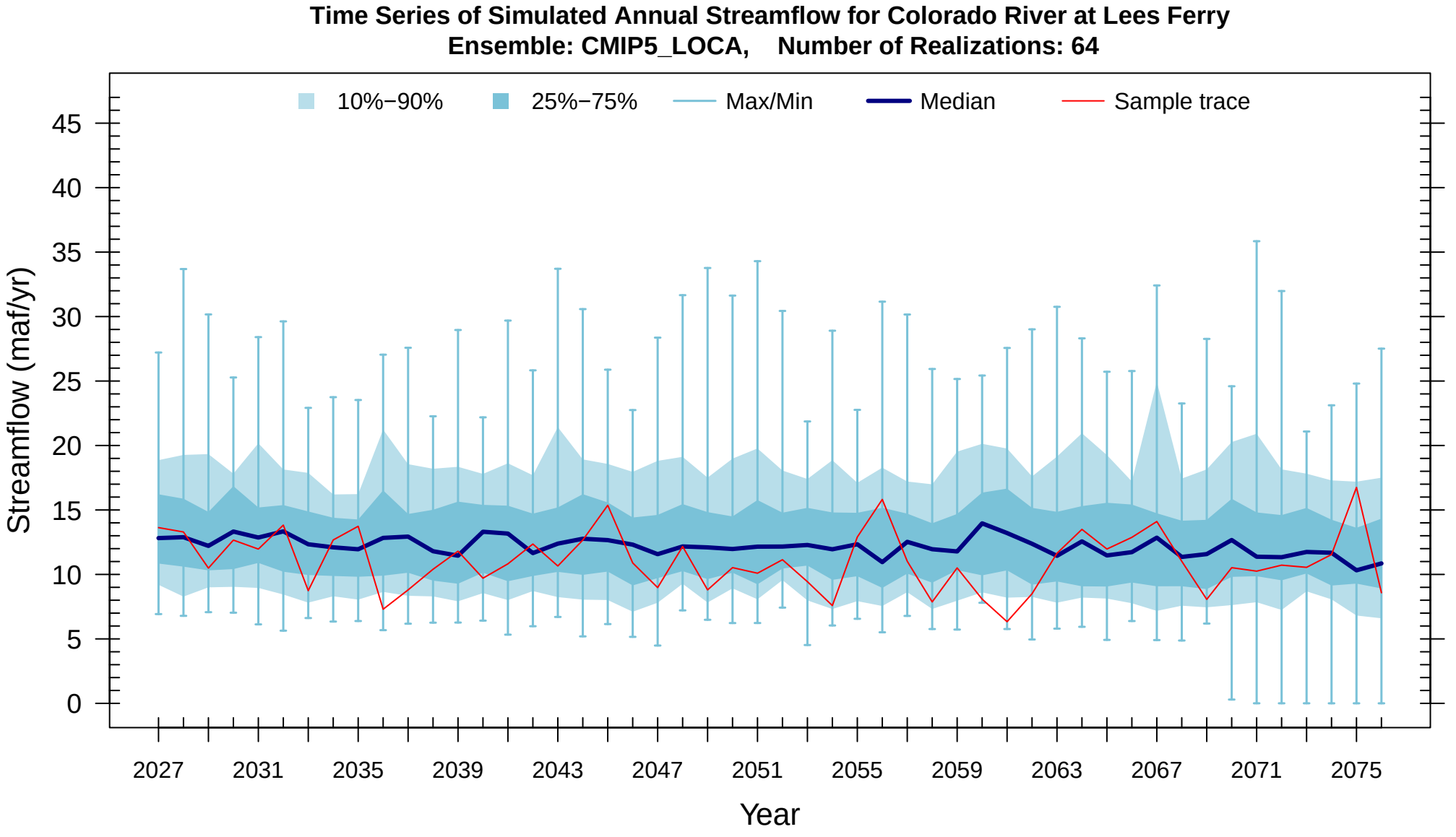
Mann−Kendall Trend Test: Tau = −0.2, P−Value = 0.0527
Trend = −0.0109 maf/yr, Not Statistically Significant



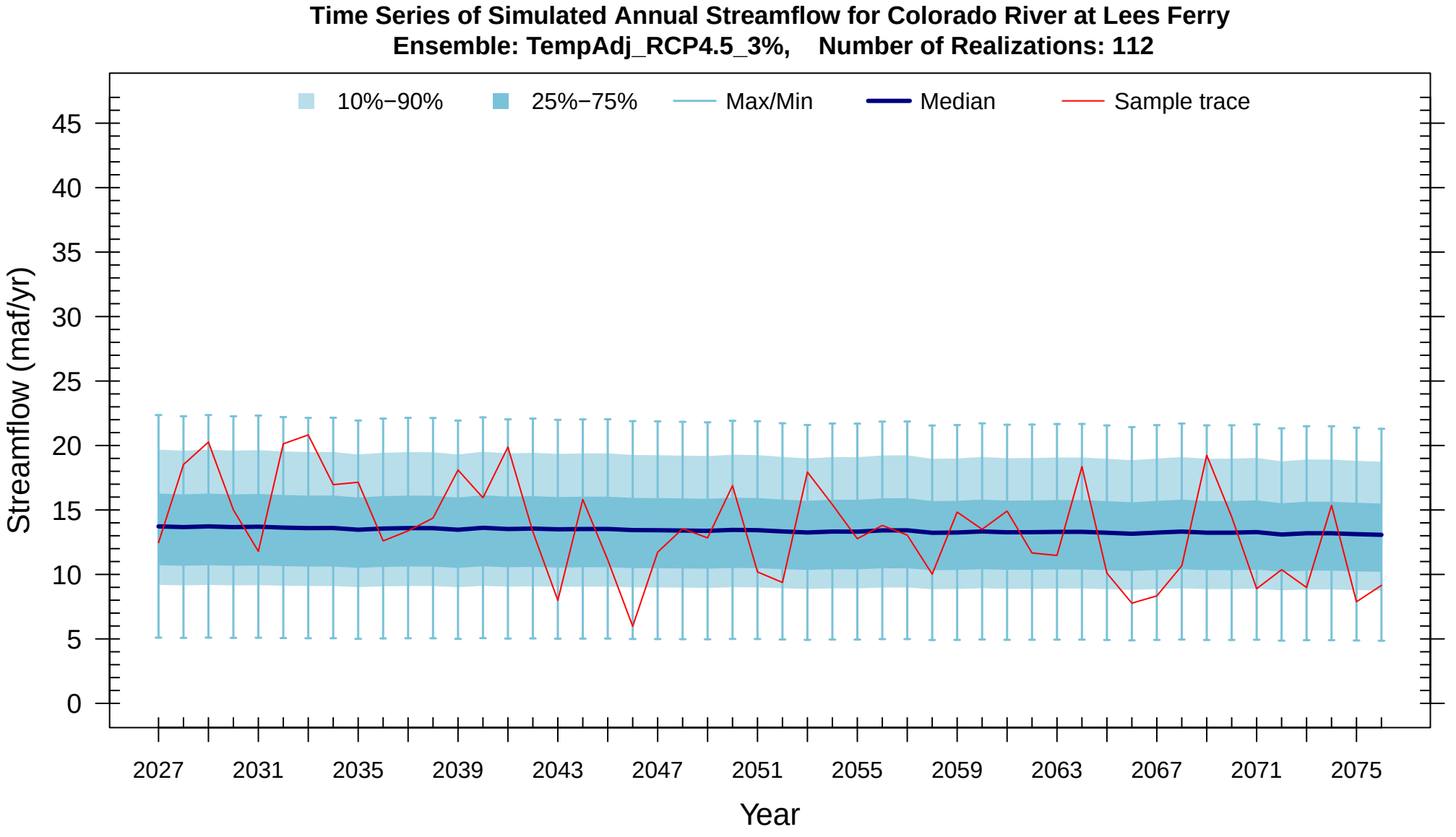
Mann−Kendall Trend Test: Tau = −0.23, P−Value = 0.0192
Trend = −0.0114 maf/yr, Statistically Significant



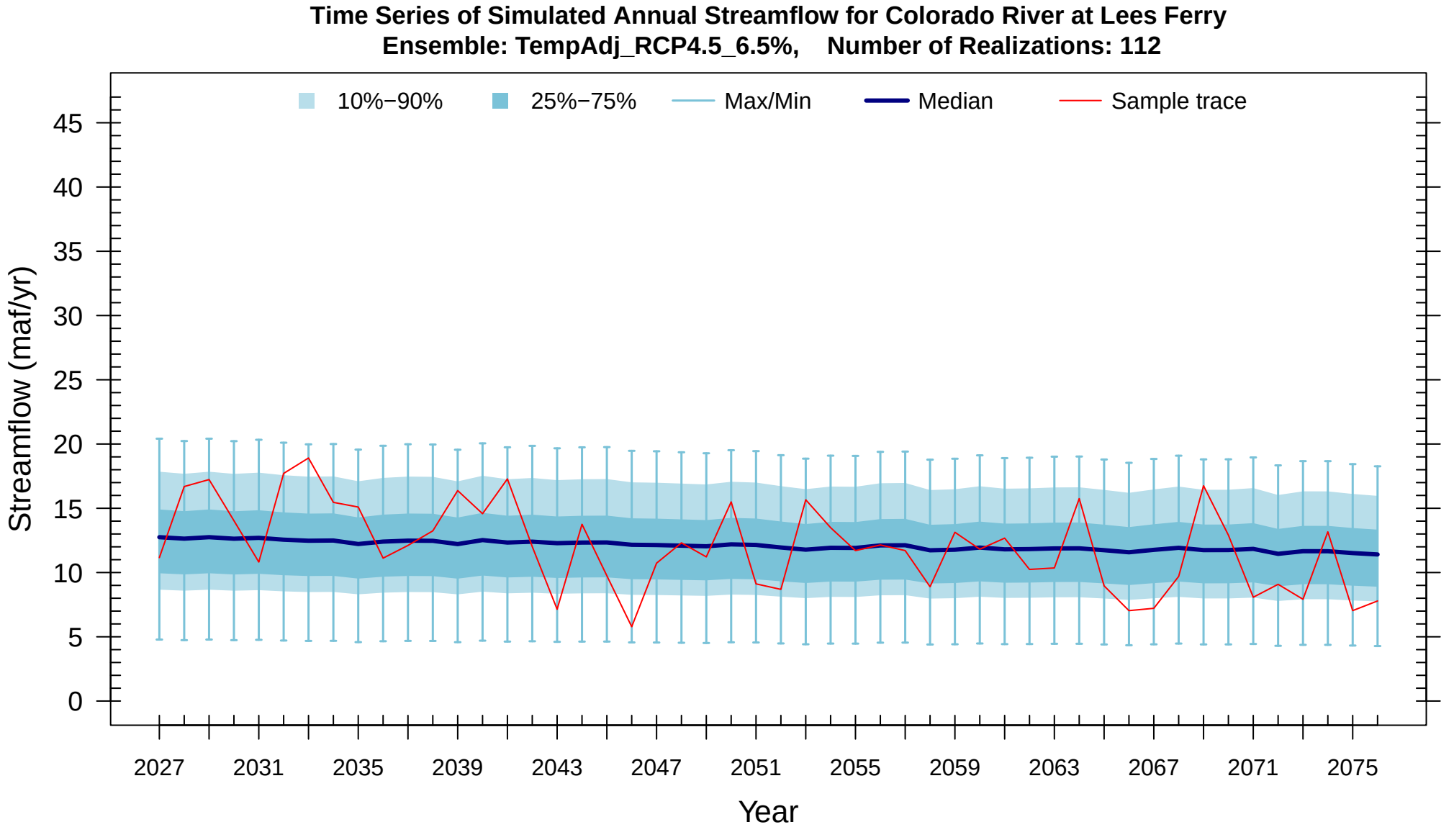
Mann−Kendall Trend Test: Tau = −0.18, P−Value = 0.061
Trend = −0.0119 maf/yr, Not Statistically Significant



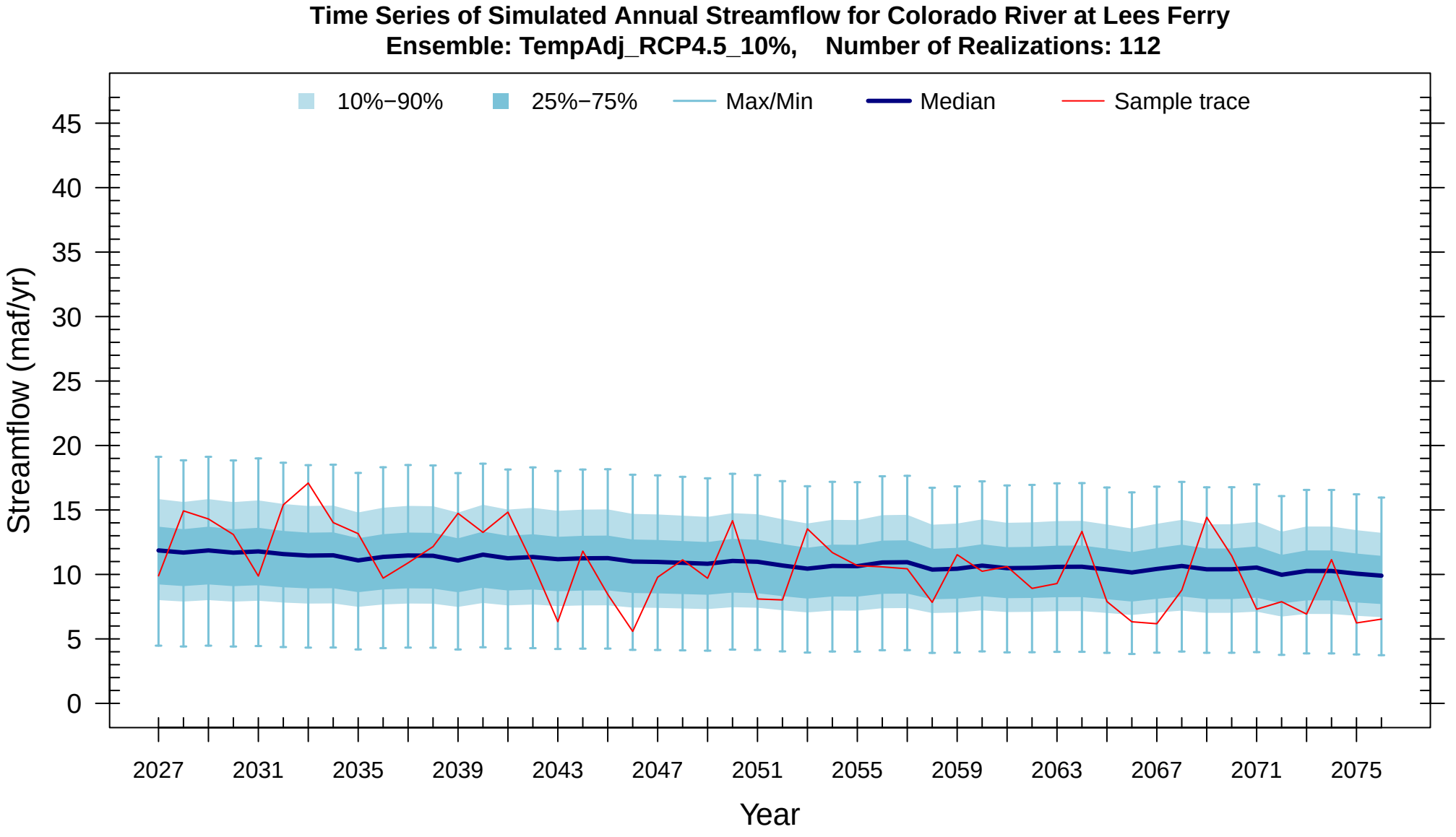
Mann−Kendall Trend Test: Tau = −0.37, P−Value = 1e−04
Trend = −0.0249 maf/yr, Statistically Significant



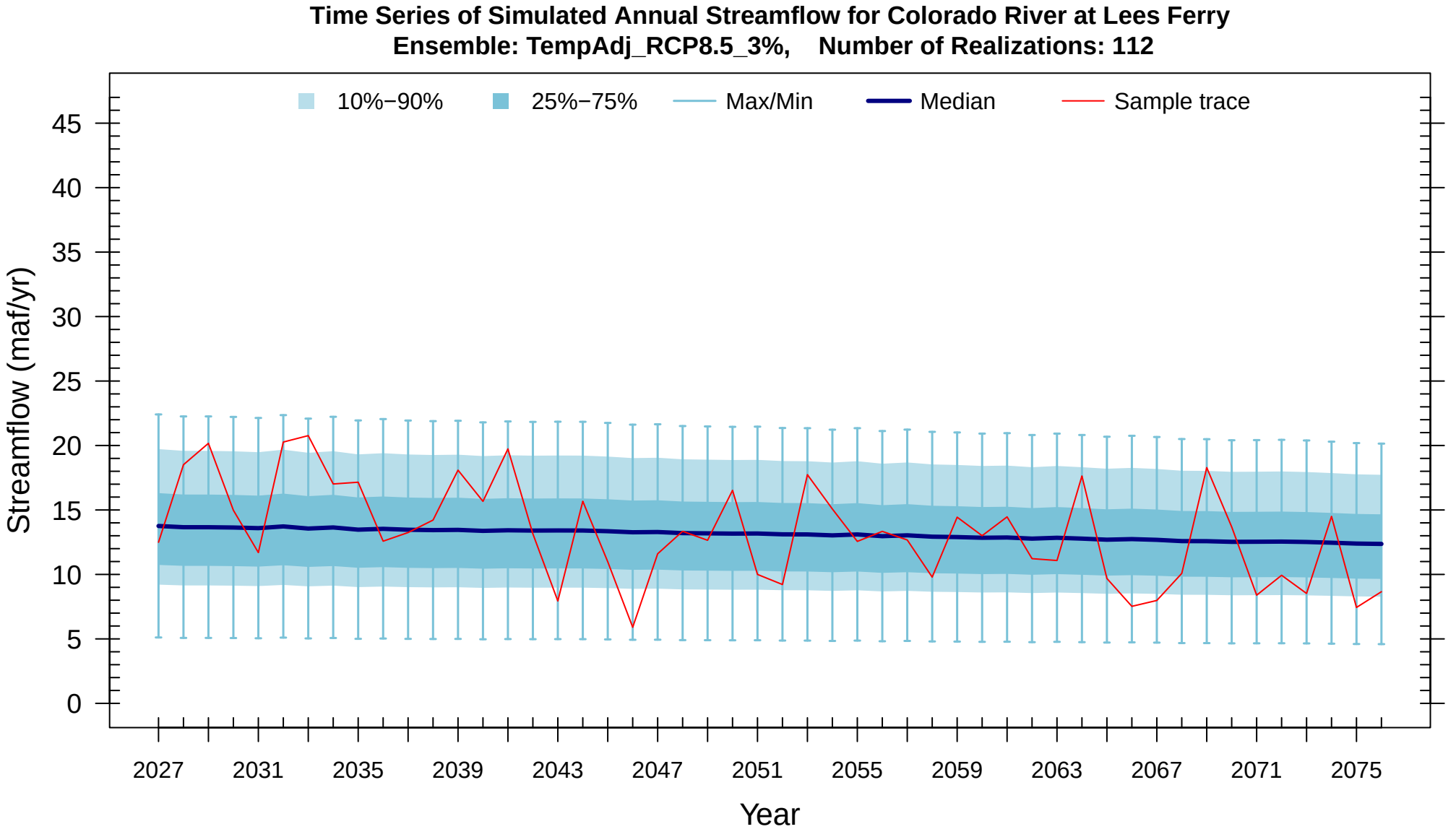
Mann−Kendall Trend Test: Tau = −0.81, P−Value = 0
Trend = −0.0114 maf/yr, Statistically Significant



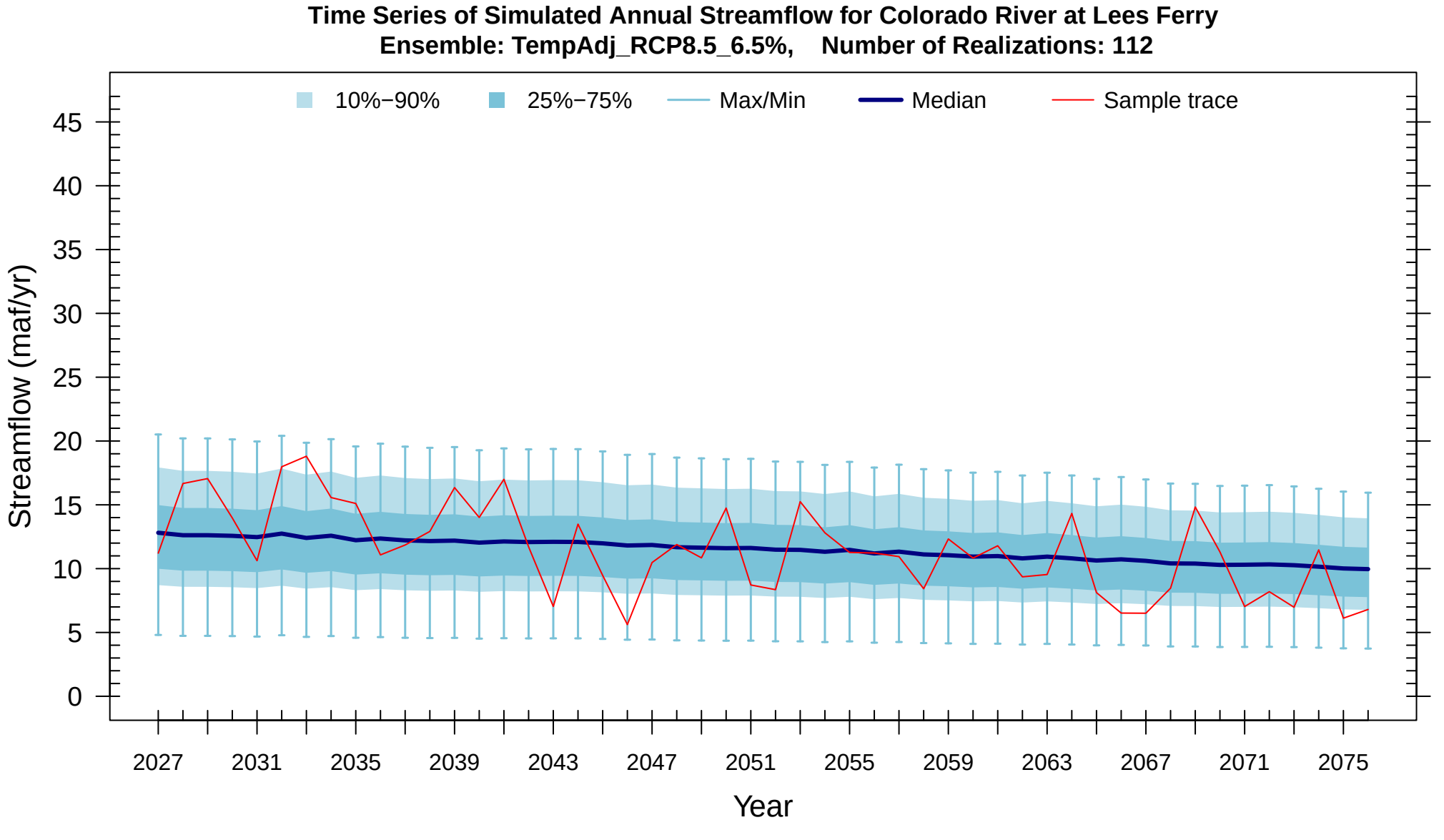
Mann−Kendall Trend Test: Tau = −0.81, P−Value = 0
Trend = −0.0234 maf/yr, Statistically Significant



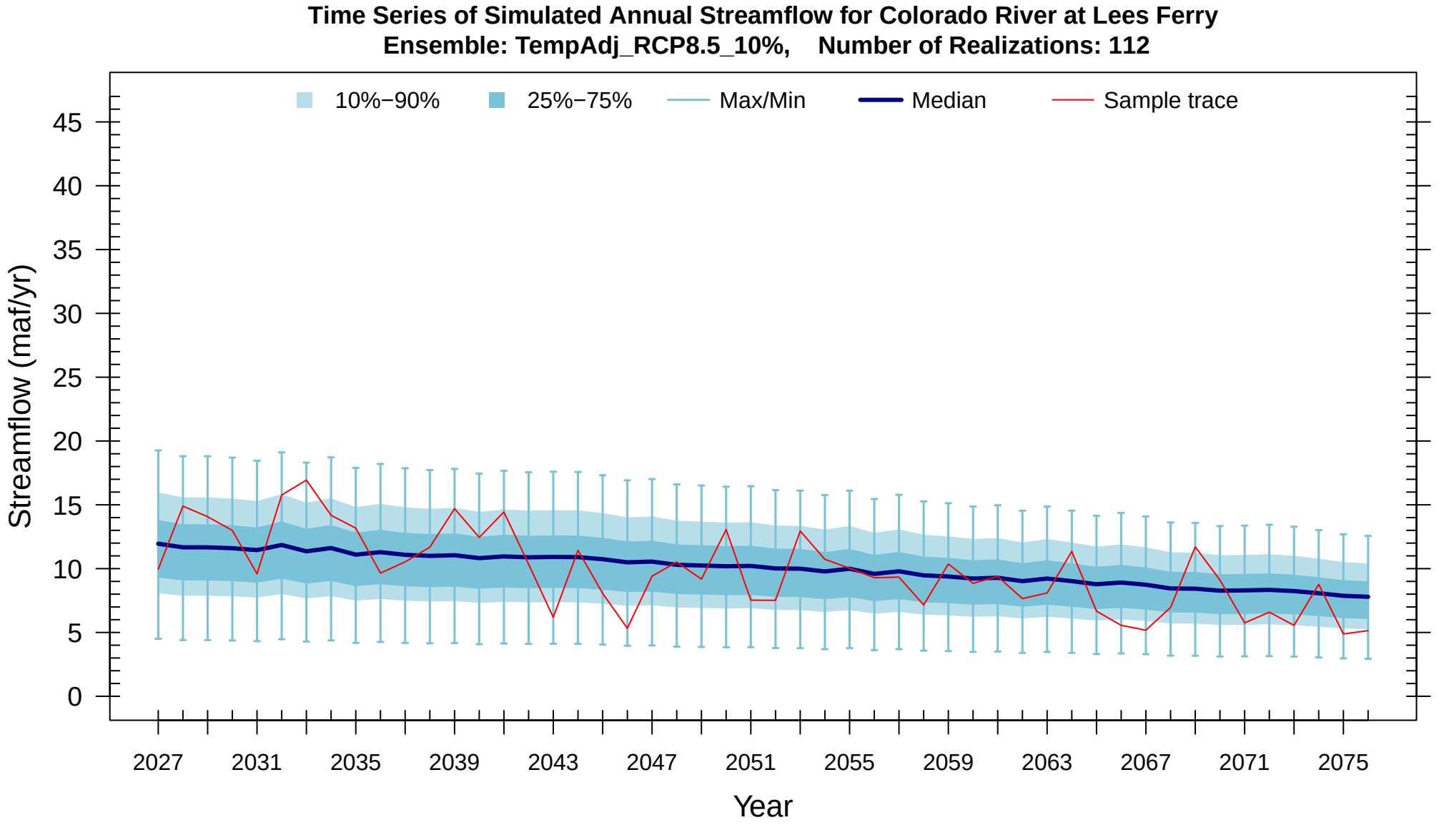
Mann−Kendall Trend Test: Tau = −0.81, P−Value = 0
Trend = −0.0342 maf/yr, Statistically Significant



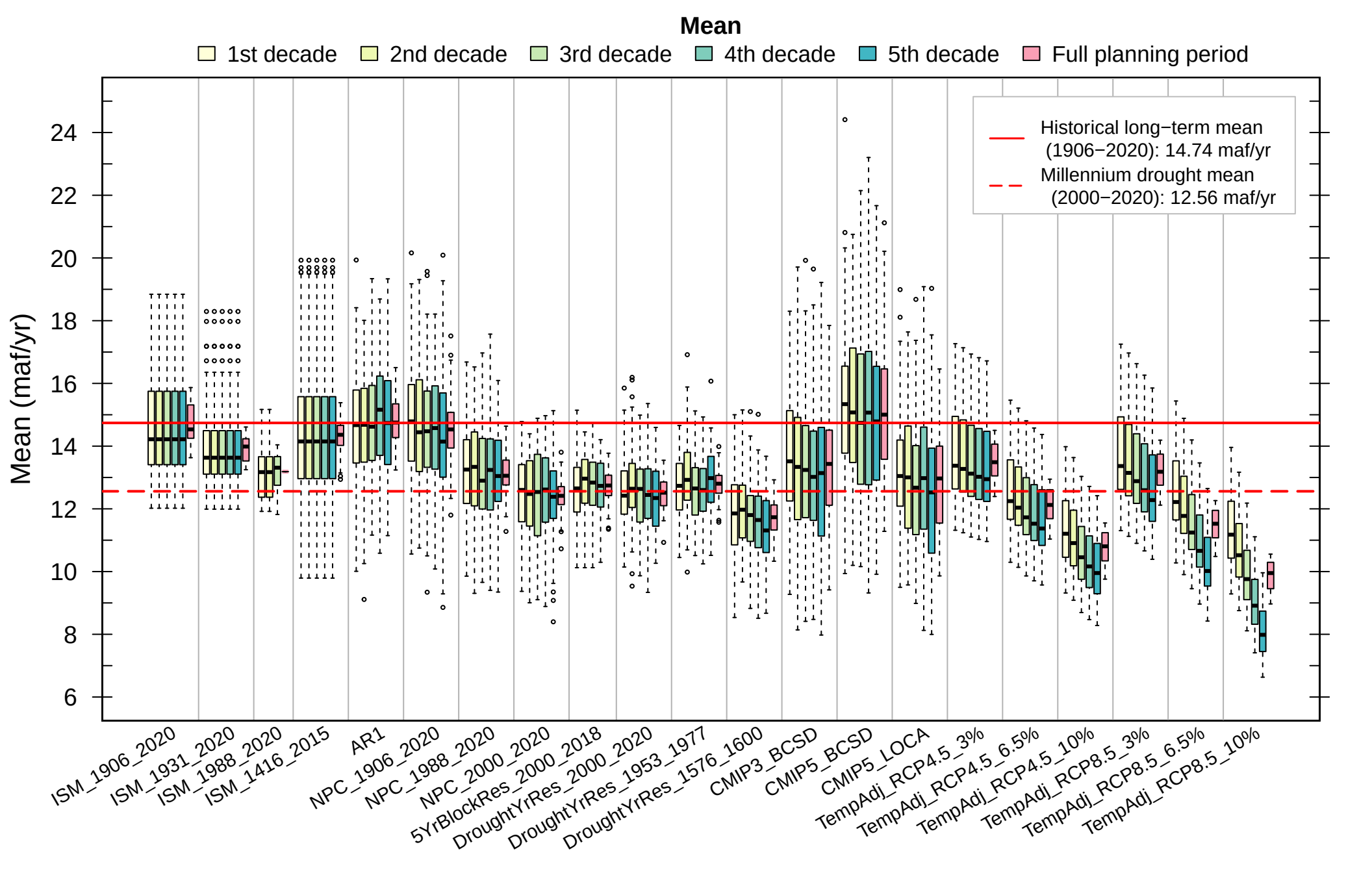
Mann−Kendall Trend Test: Tau = −0.96, P−Value = 0
Trend = −0.0276 maf/yr, Statistically Significant

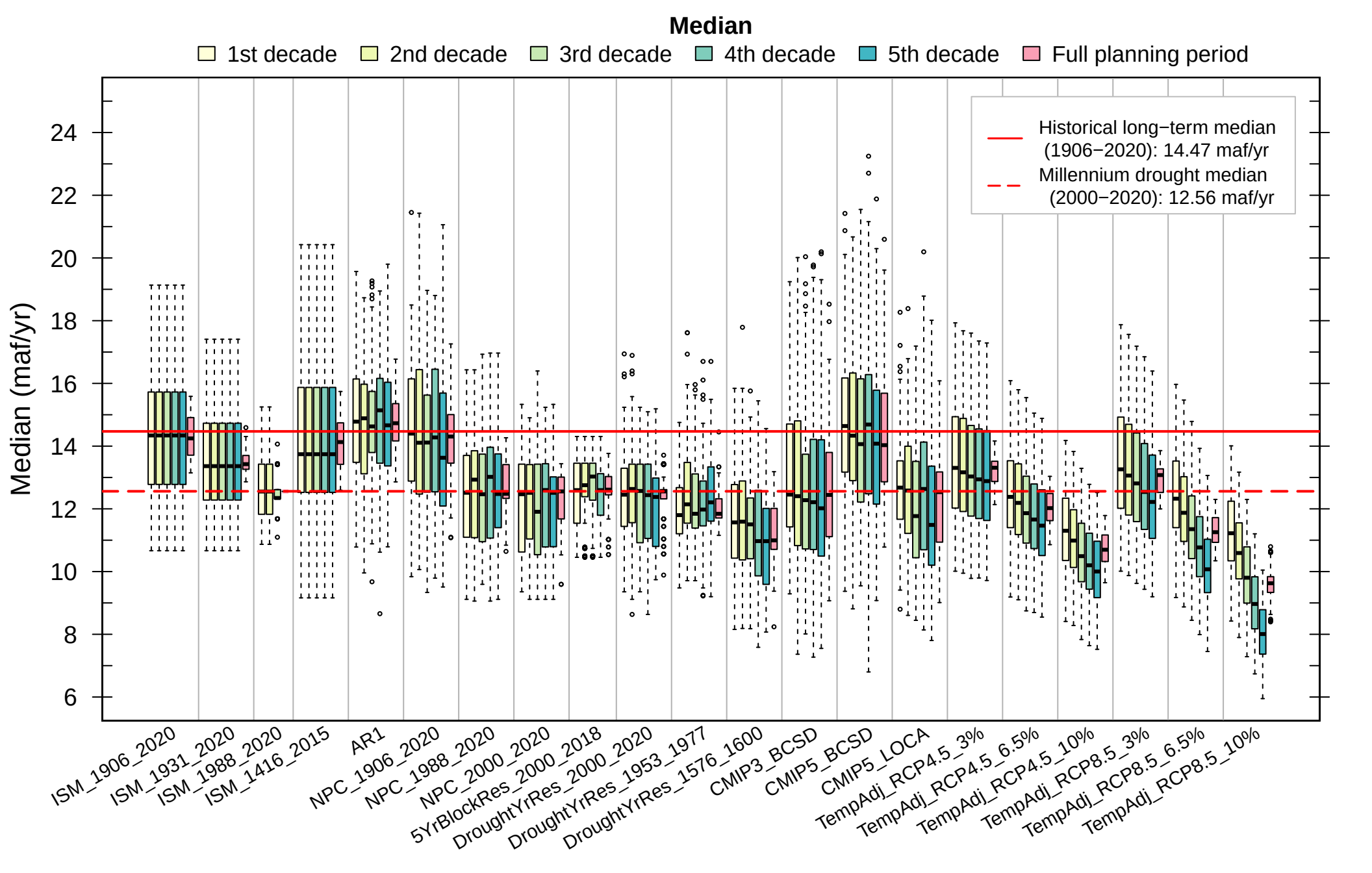


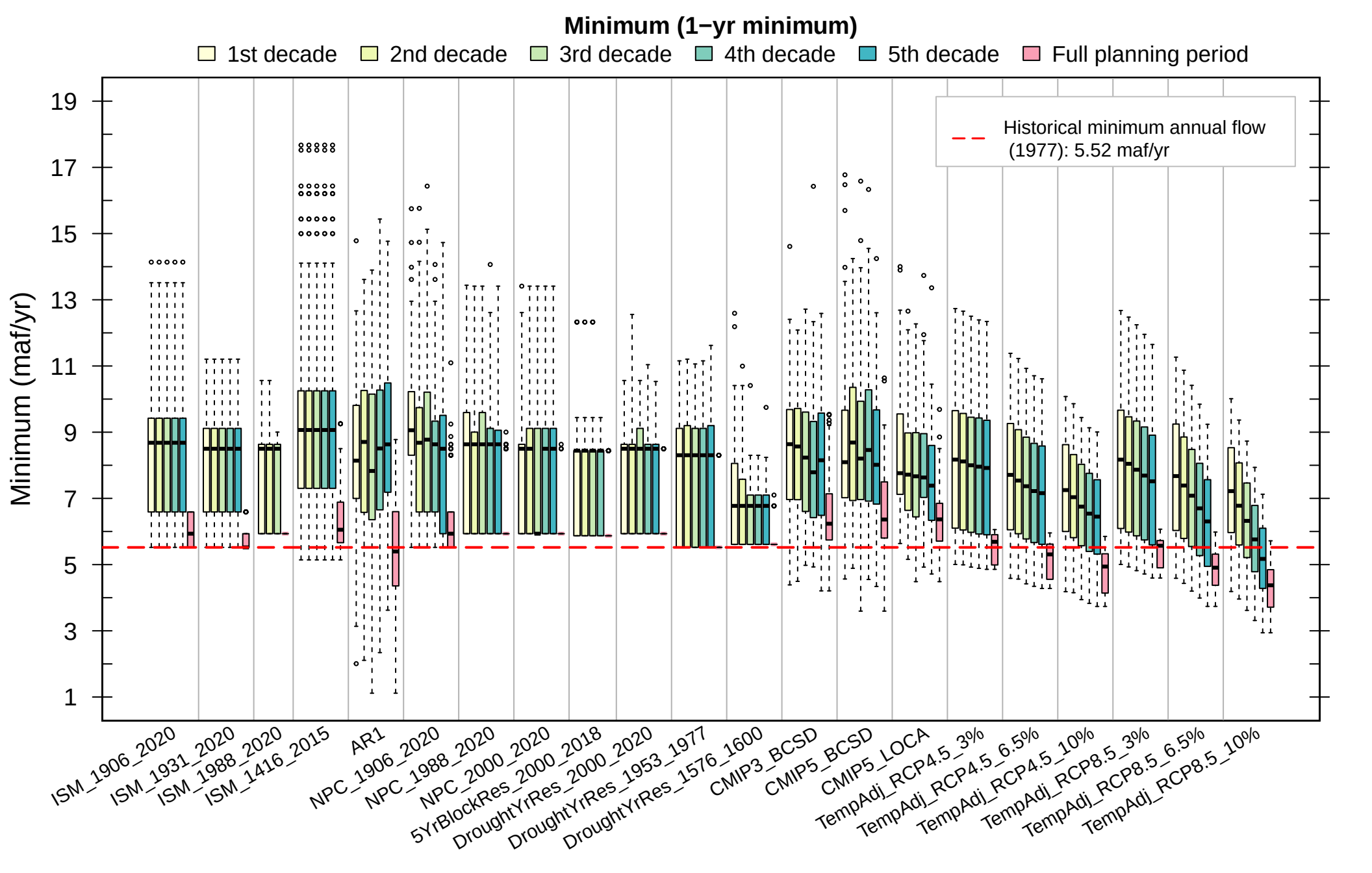
Mann−Kendall Trend Test: Tau = −0.96, P−Value = 0
Trend = −0.0566 maf/yr, Statistically Significant

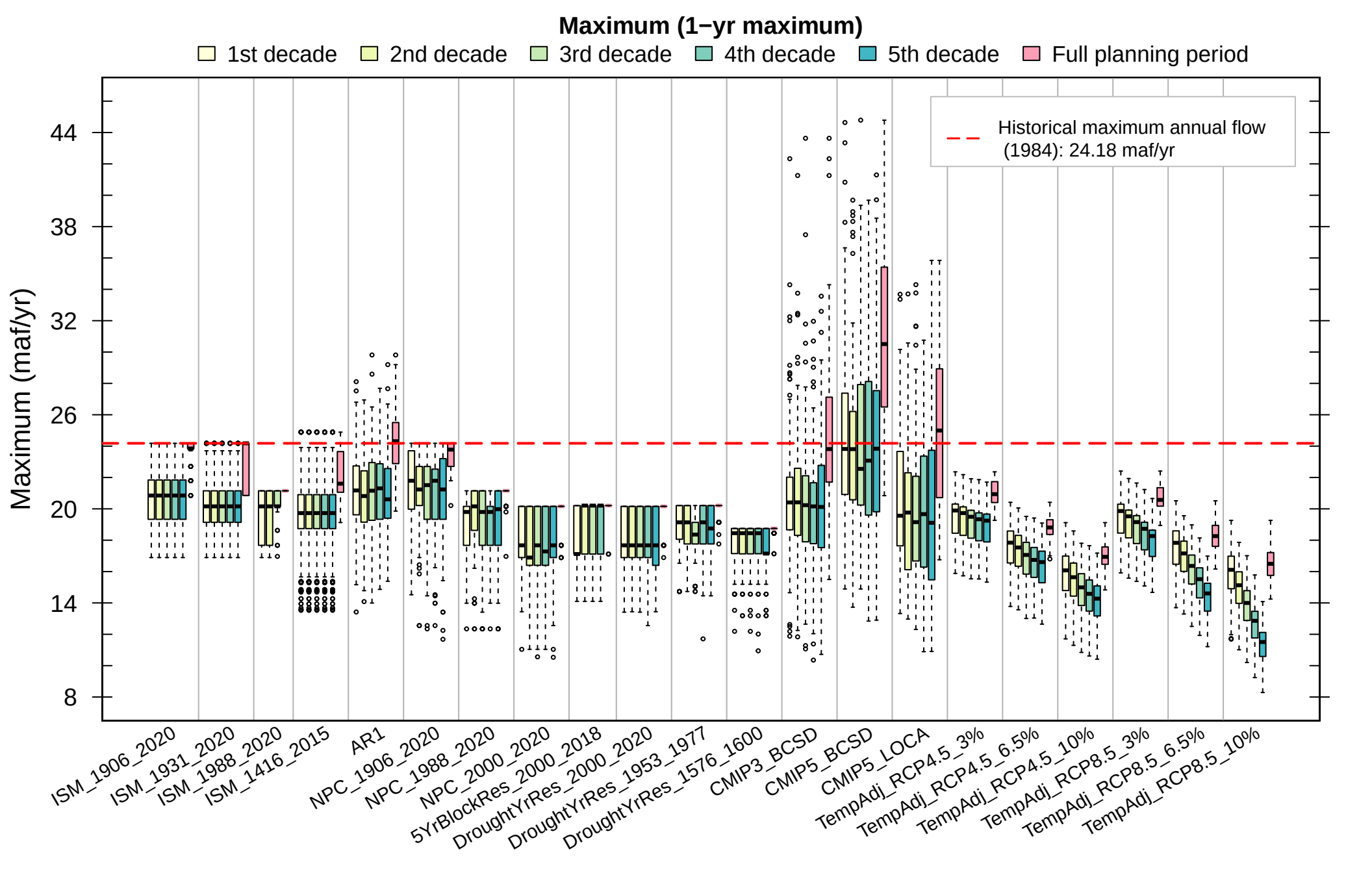


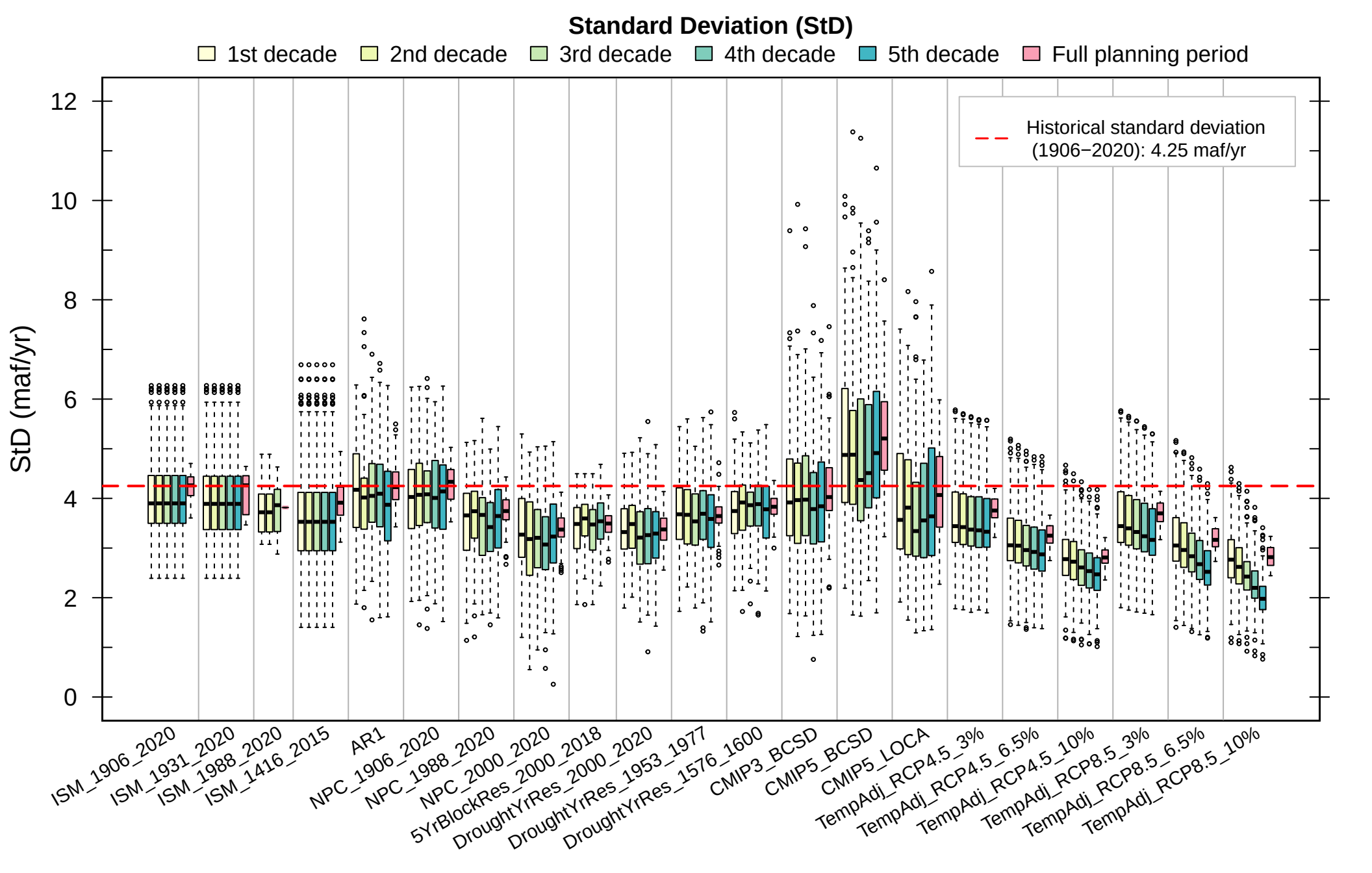
Mann−Kendall Trend Test: Tau = −0.96, P−Value = 0
Trend = −0.0825 maf/yr, Statistically Significant

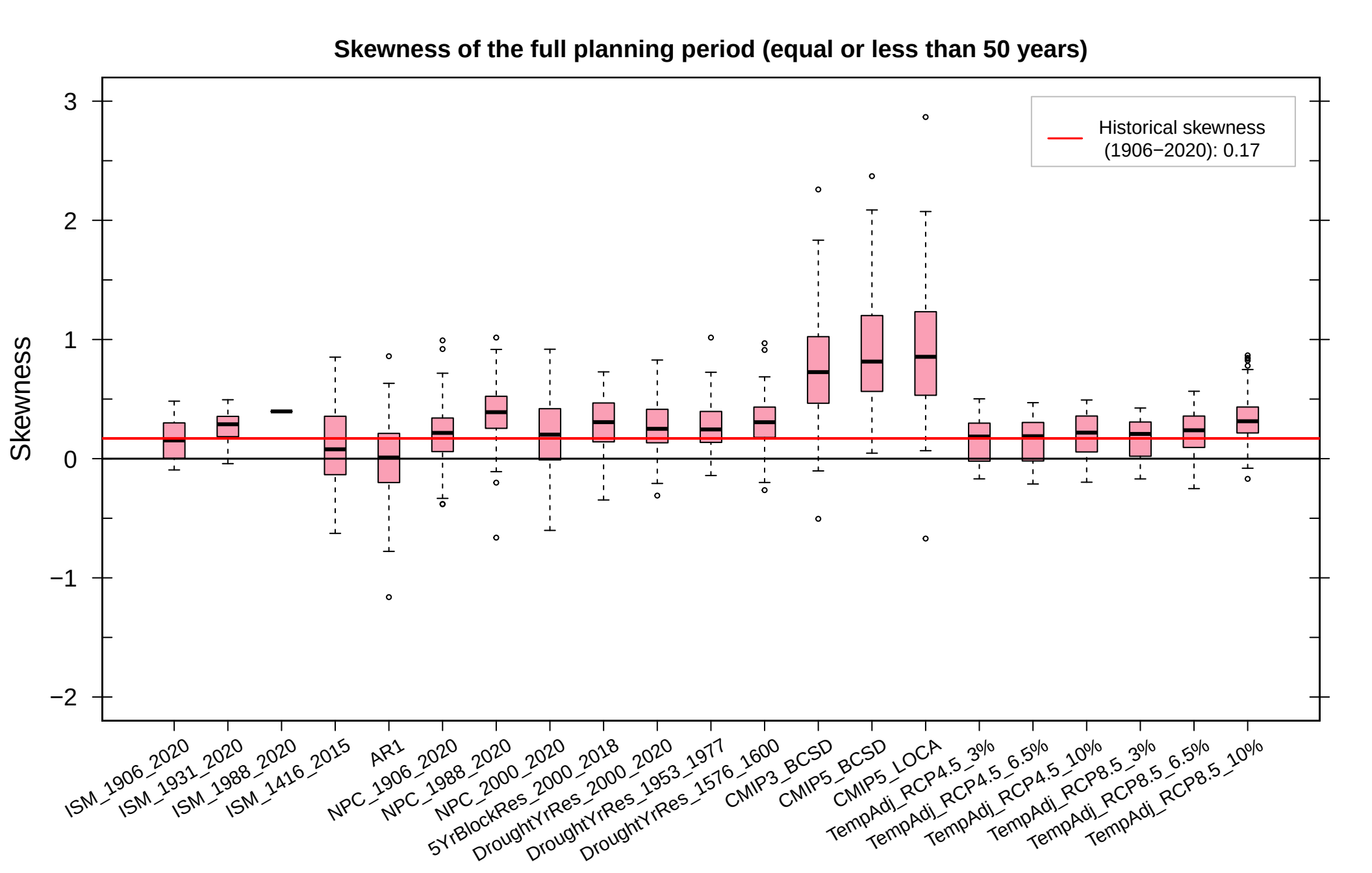

Mean
1st decade
2nd decade
3rd decade
4th decade
5th decade
Full planning period
Historical long−term mean (1906−2020): 14.74 maf/yr
Millennium drought mean (2000−2020): 12.56 maf/yr
Mean (maf/yr)
24
22
20
18
16
14
12
10
8
6
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

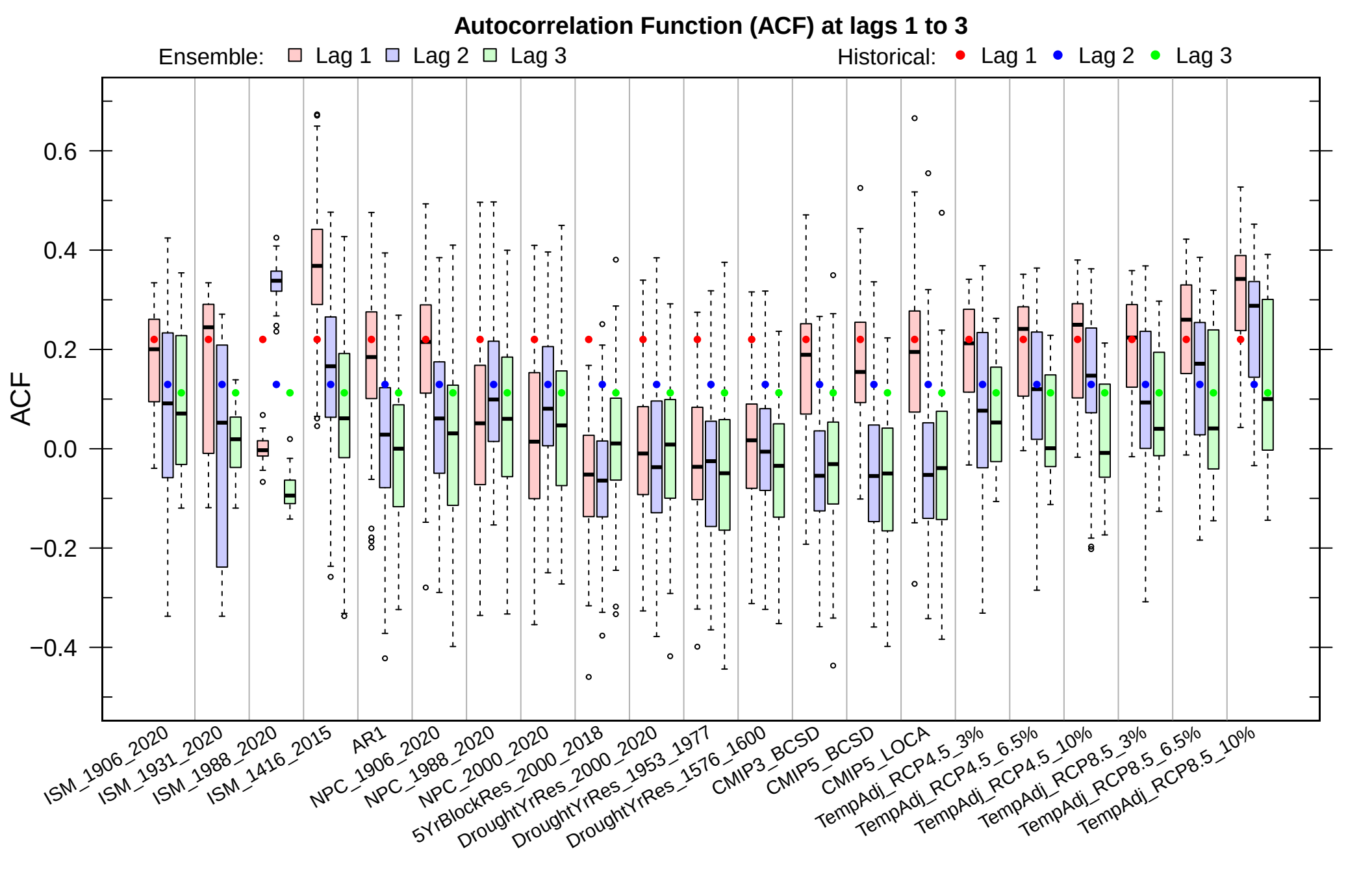

Median
1st decade
2nd decade
3rd decade
4th decade
5th decade
Full planning period
Median (maf/yr)
24
22
20
18
16
14
12
10
8
6
Historical long−term median
(1906−2020): 14.47 maf/yr
Millennium drought median
(2000−2020): 12.56 maf/yr
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

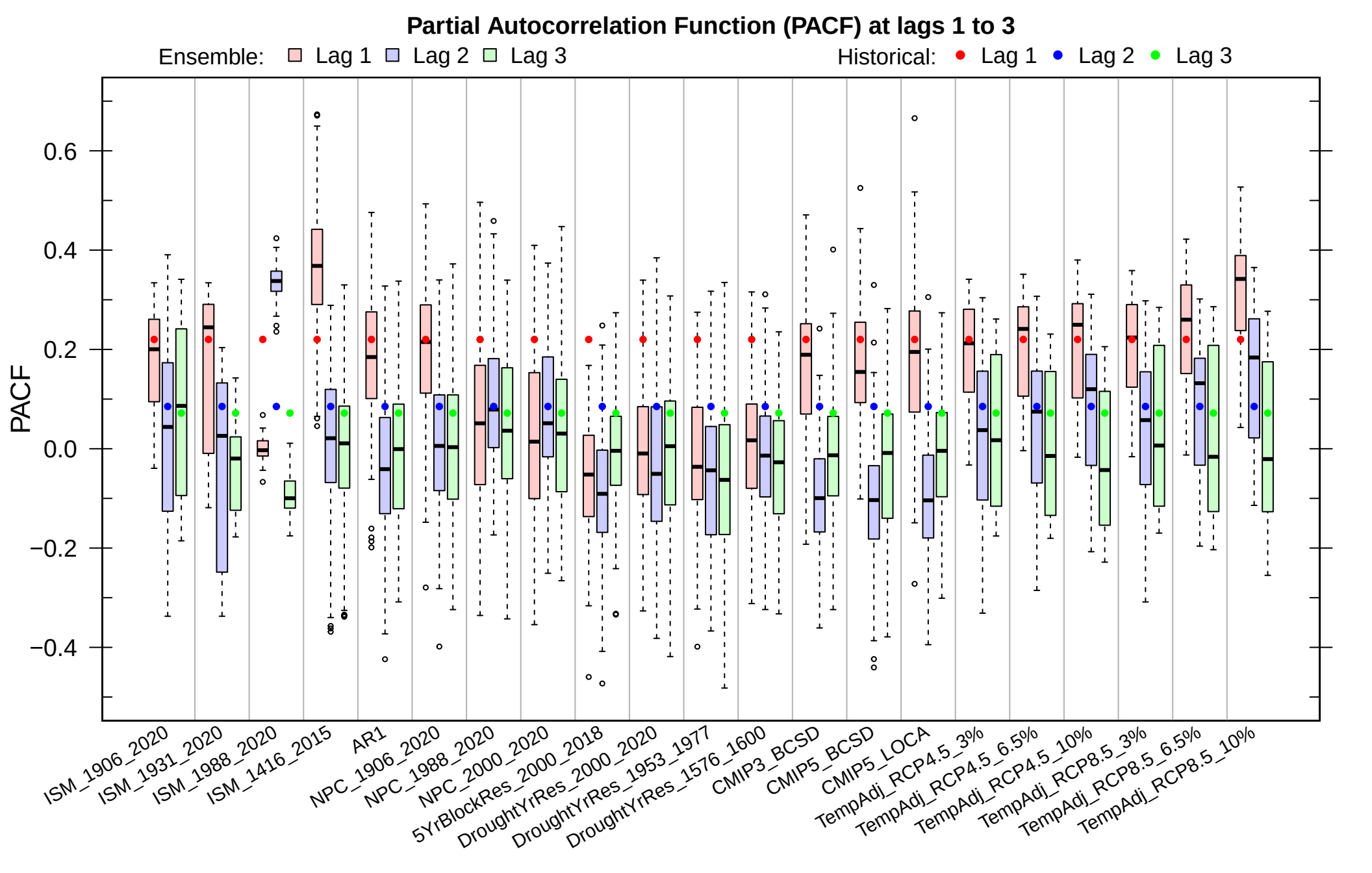

Minimum (1−yr minimum)
1st decade
2nd decade
3rd decade
4th decade
5th decade
Full planning period
Historical minimum annual flow (1977): 5.52 maf/yr
Minimum (maf/yr)
19
17
15
13
11
9
7
5
3
1
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

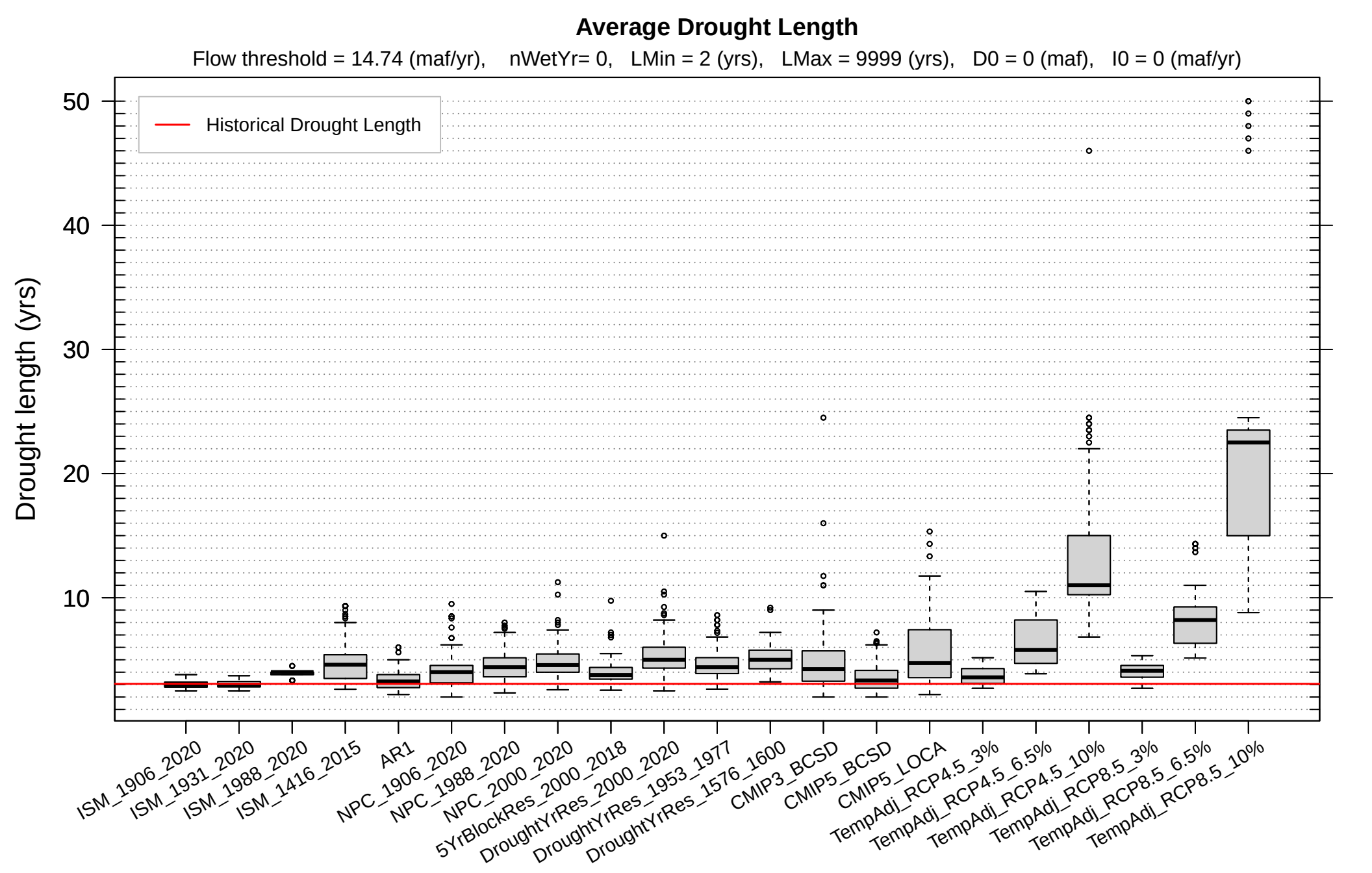

Maximum (1−yr maximum)
1st decade
2nd decade
3rd decade
4th decade
5th decade
Full planning period
Historical maximum annual flow (1984): 24.18 maf/yr
Maximum (maf/yr)
44
38
32
26
20
14
8
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

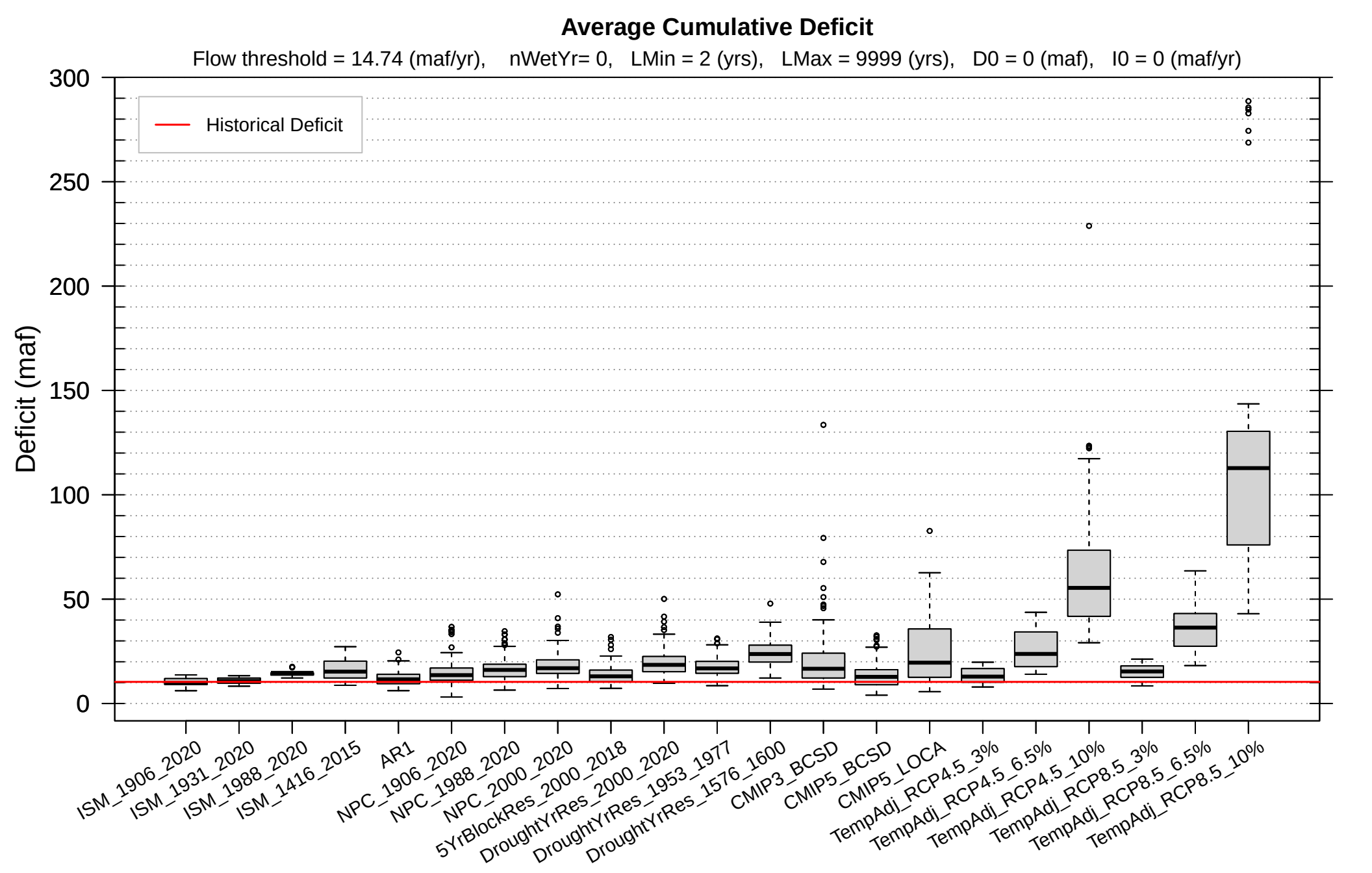

Standard Deviation (StD)
1st decade
2nd decade
3rd decade
4th decade
5th decade
Full planning period
Historical standard deviation
(1906−2020): 4.25 maf/yr
StD (maf/yr)
0
2
4
6
8
10
12
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

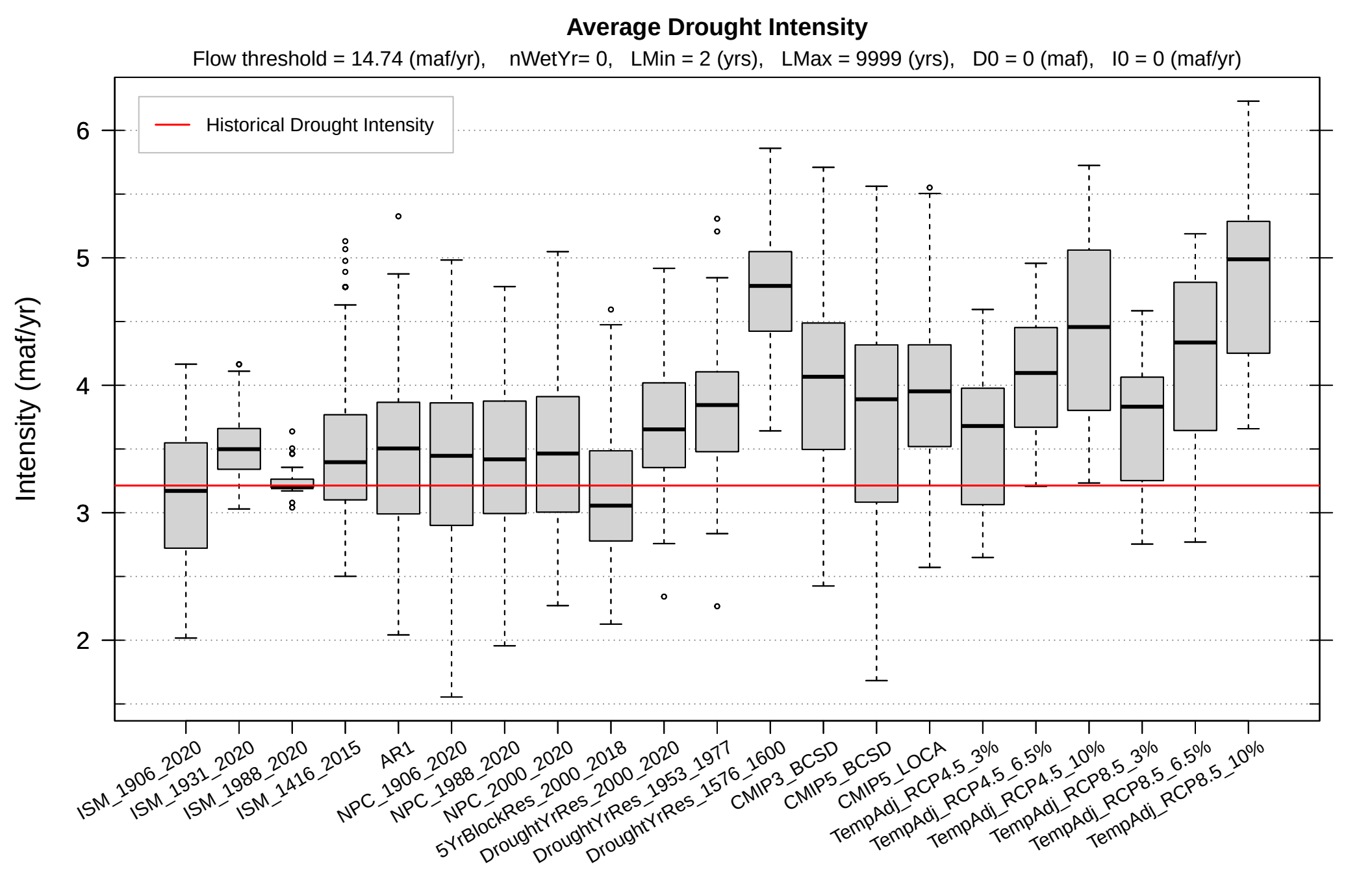

Skewness of the full planning period (equal or less than 50 years)
Skewness
3
2
1
0
−1
−2
Historical skewness
(1906−2020): 0.17
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

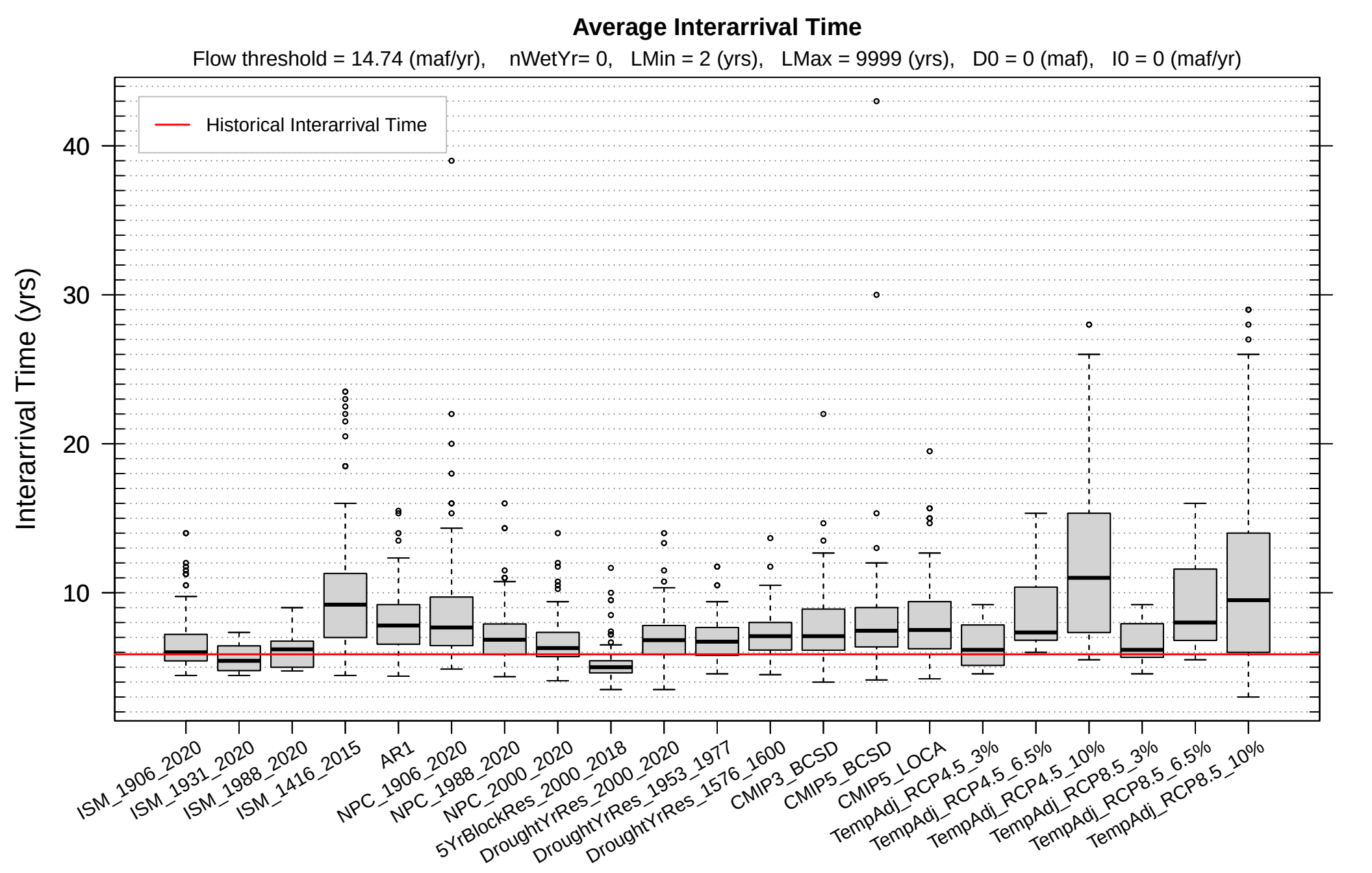

Autocorrelation Function (ACF) at lags 1 to 3
Ensemble: Lag 1 Lag 2 Lag 3
Historical: Lag 1 Lag 2 Lag 3
ACF
0.6
0.4
0.2
0.0
−0.2
−0.4
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

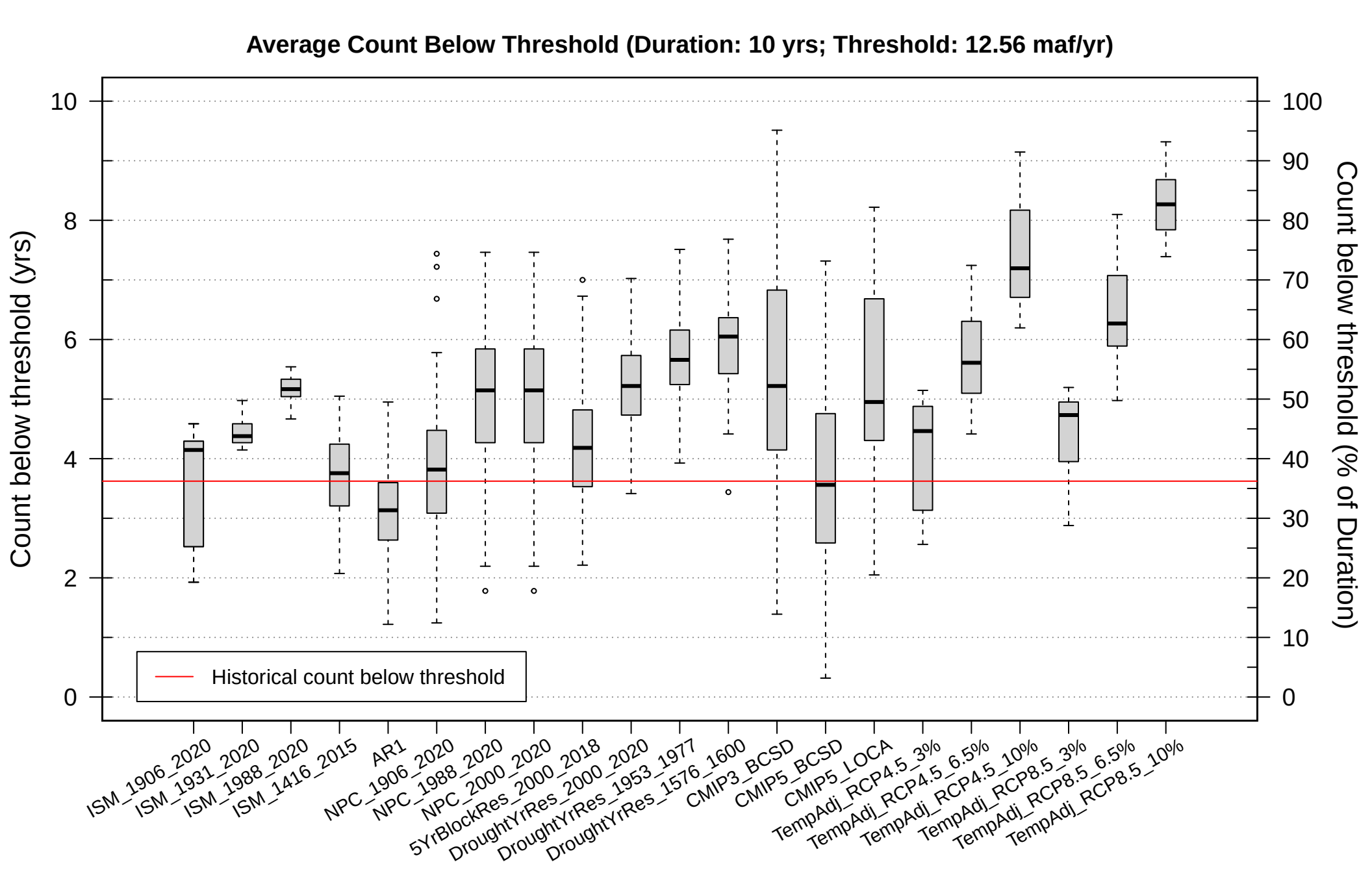

Partial Autocorrelation Function (PACF) at lags 1 to 3
Ensemble: Lag 1 Lag 2 Lag 3
Historical: Lag 1 Lag 2 Lag 3
PACF
0.6
0.4
0.2
0.0
−0.2
−0.4
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

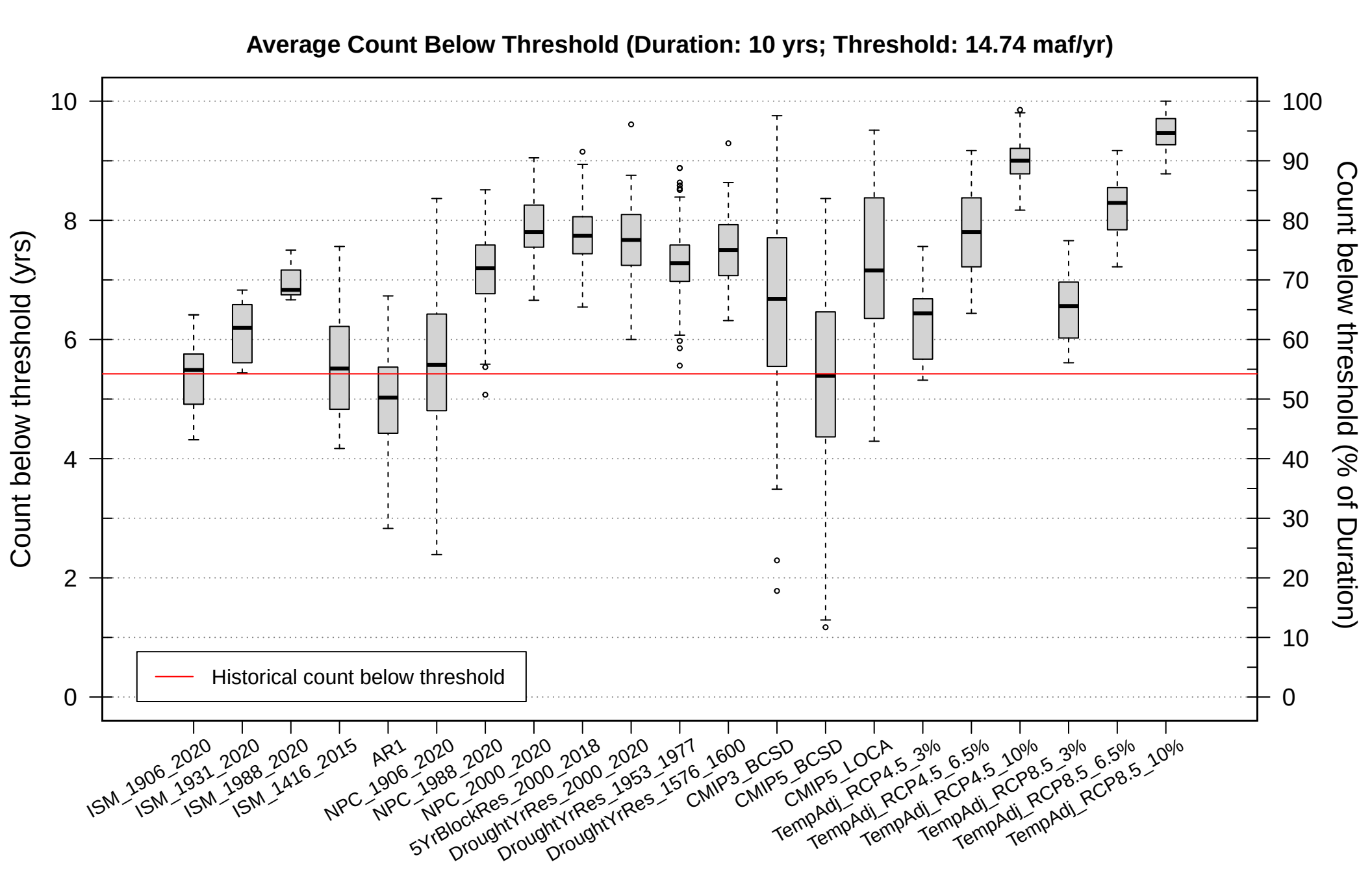

Average Drought Length
Flow threshold = 14.74 (maf/yr), nWetYr= 0, LMin = 2 (yrs), LMax = 9999 (yrs), D0 = 0 (maf), I0 = 0 (maf/yr)
Historical Drought Length
Drought length (yrs)
50
40
30
20
10
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

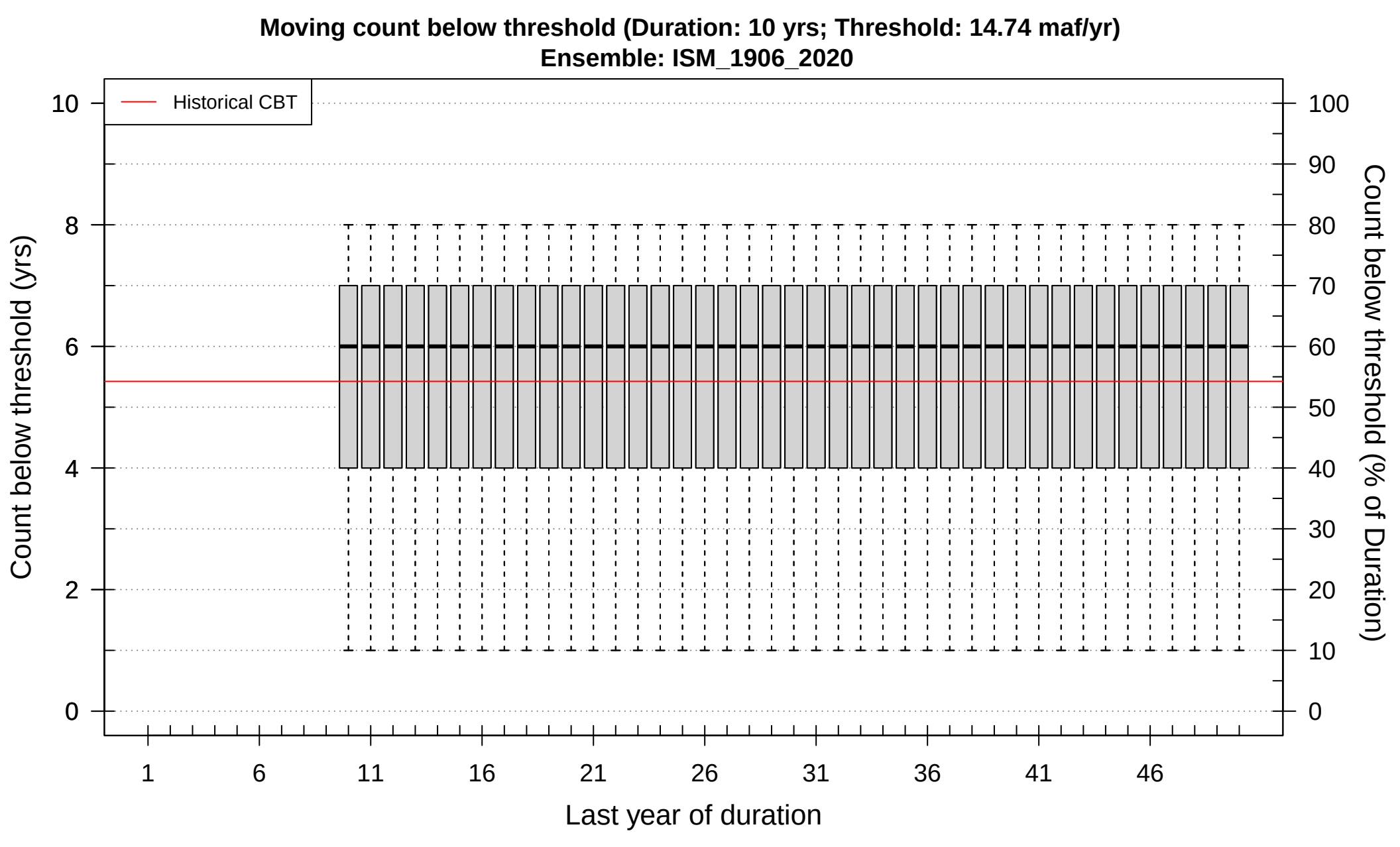

Average Cumulative Deficit
Flow threshold = 14.74 (maf/yr), nWetYr= 0, LMin = 2 (yrs), LMax = 9999 (yrs), D0 = 0 (maf), I0 = 0 (maf/yr)
Historical Deficit
Deficit (maf)
300
250
200
150
100
50
0
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

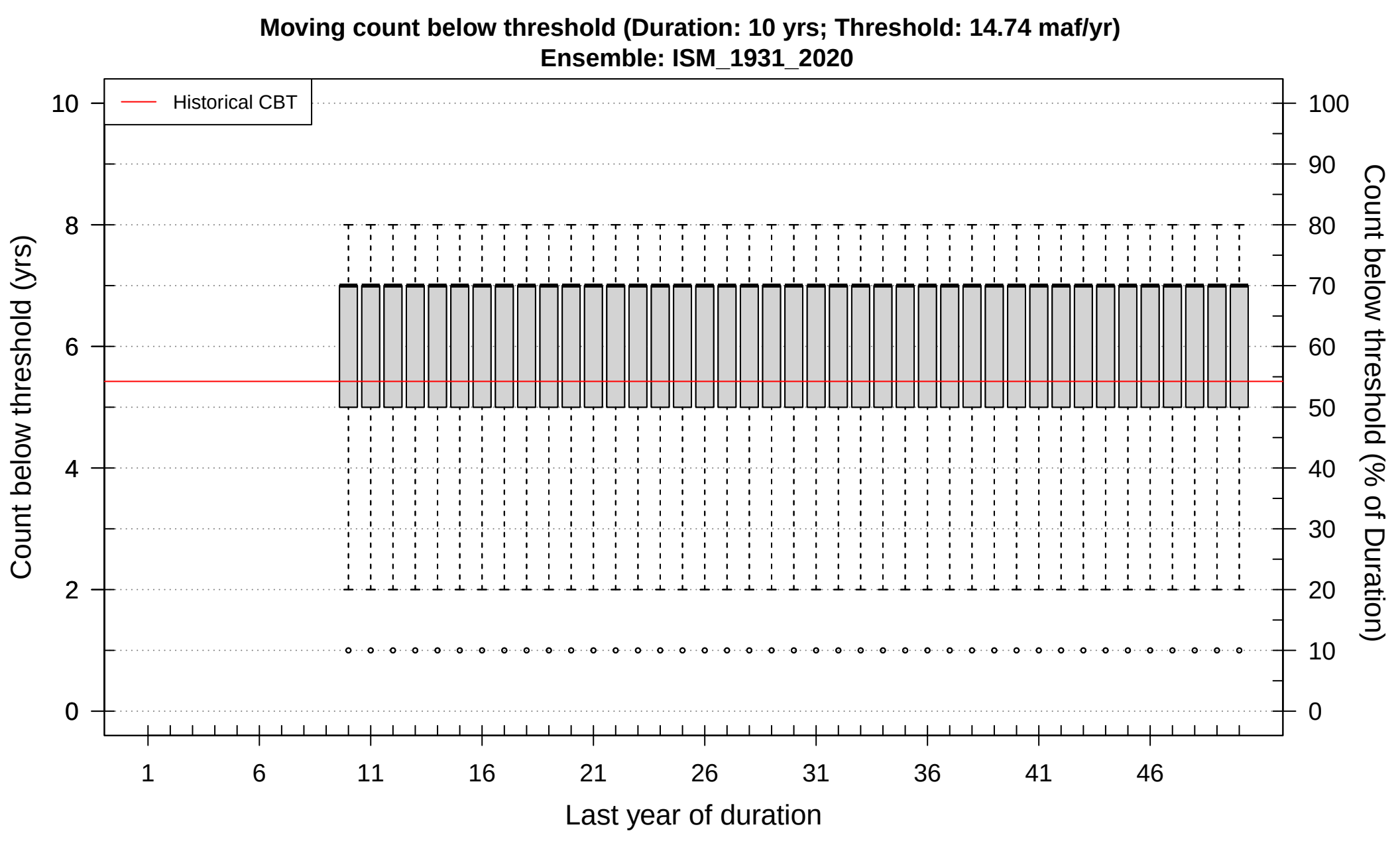

Average Drought Intensity
Flow threshold = 14.74 (maf/yr), nWetYr= 0, LMin = 2 (yrs), LMax = 9999 (yrs), D0 = 0 (maf), I0 = 0 (maf/yr)
Historical Drought Intensity
Intensity (maf/yr)
6
5
4
3
2
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

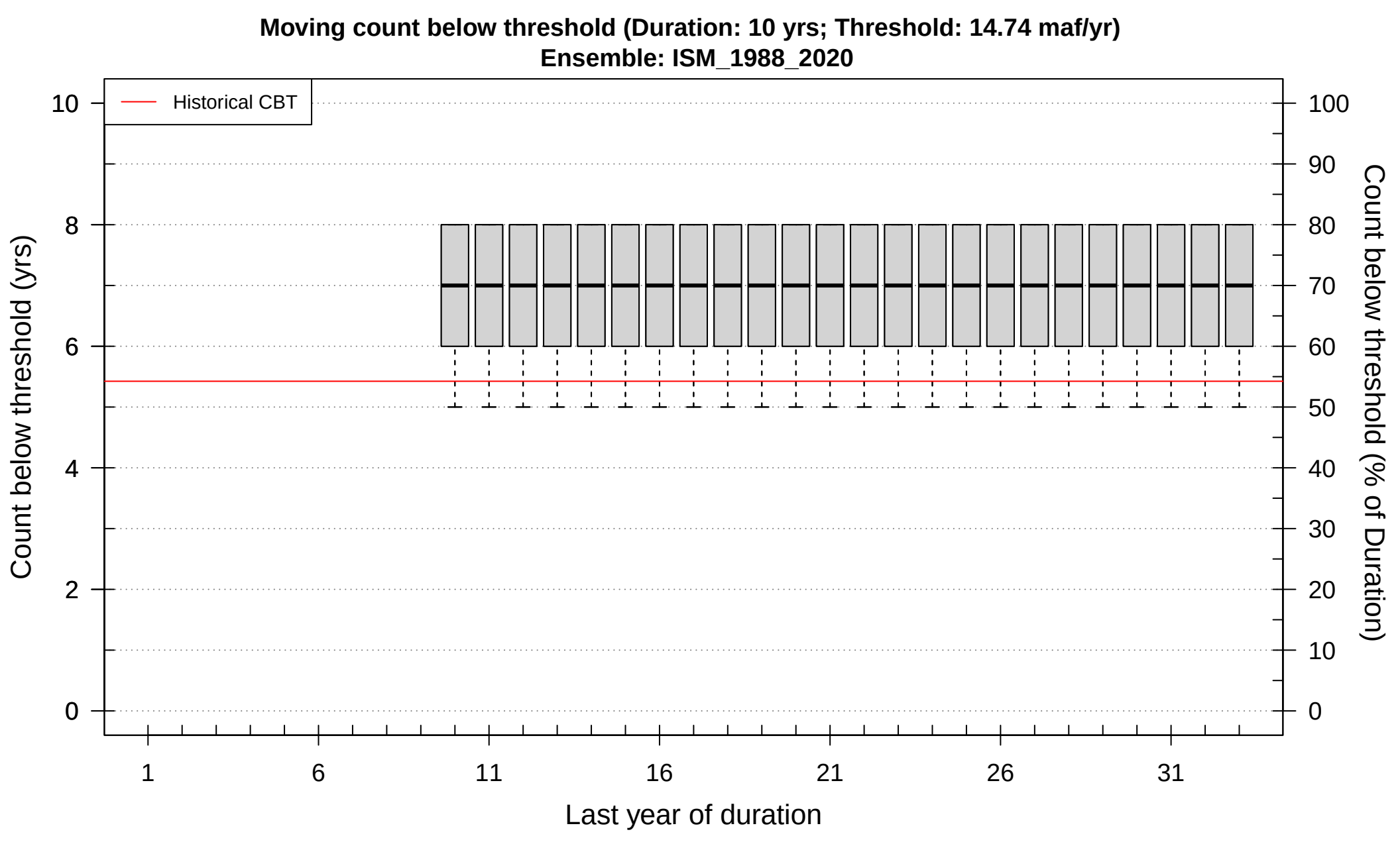

Average Interarrival Time
Flow threshold = 14.74 (maf/yr), nWetYr= 0, LMin = 2 (yrs), LMax = 9999 (yrs), D0 = 0 (maf), I0 = 0 (maf/yr)
Historical Interarrival Time
Interarrival Time (yrs)
40
30
20
10
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

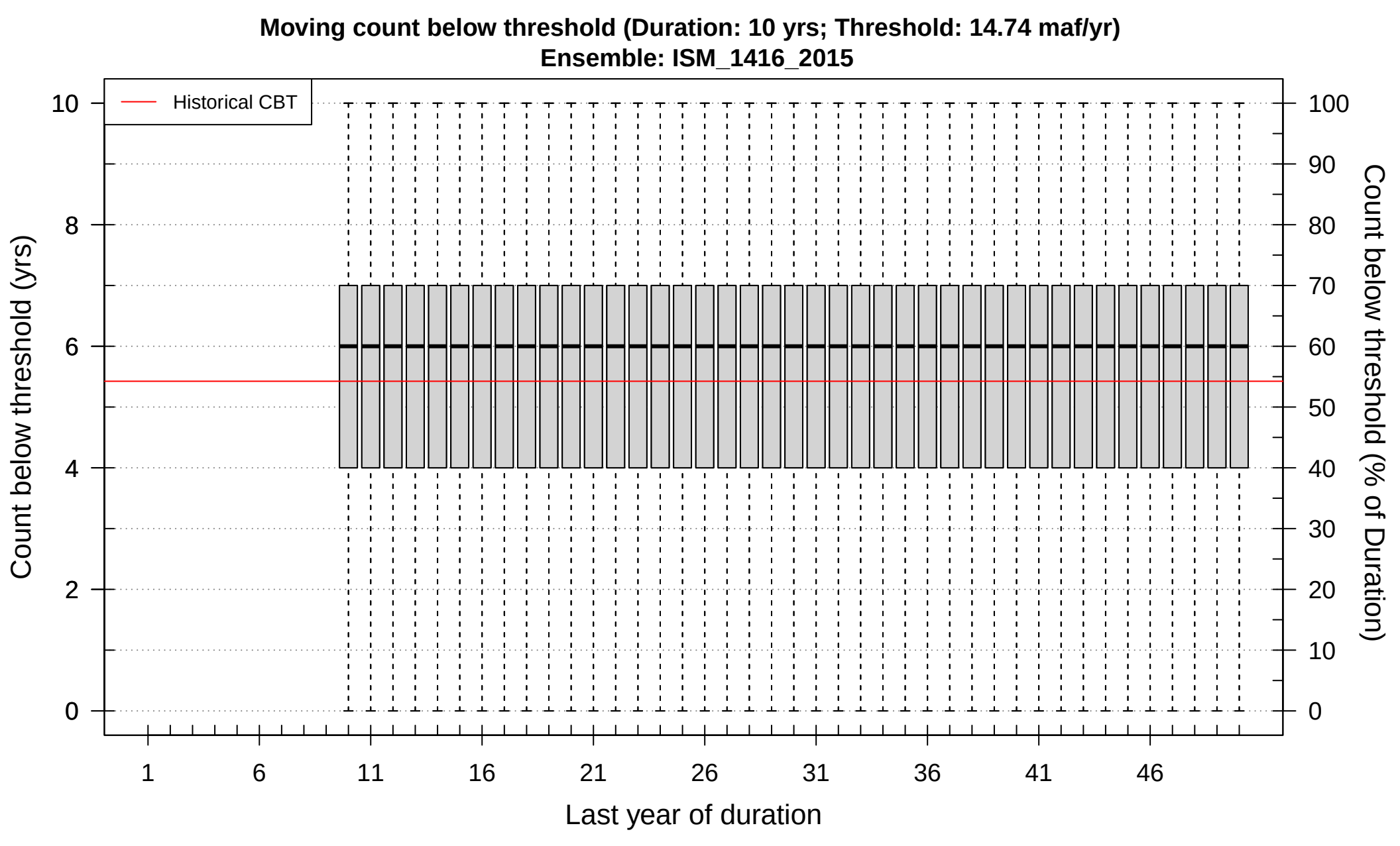

Average Count Below Threshold (Duration: 10 yrs; Threshold: 12.56 maf/yr)
Count below threshold (yrs)
Count below threshold (% of Duration)
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
Historical count below threshold
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

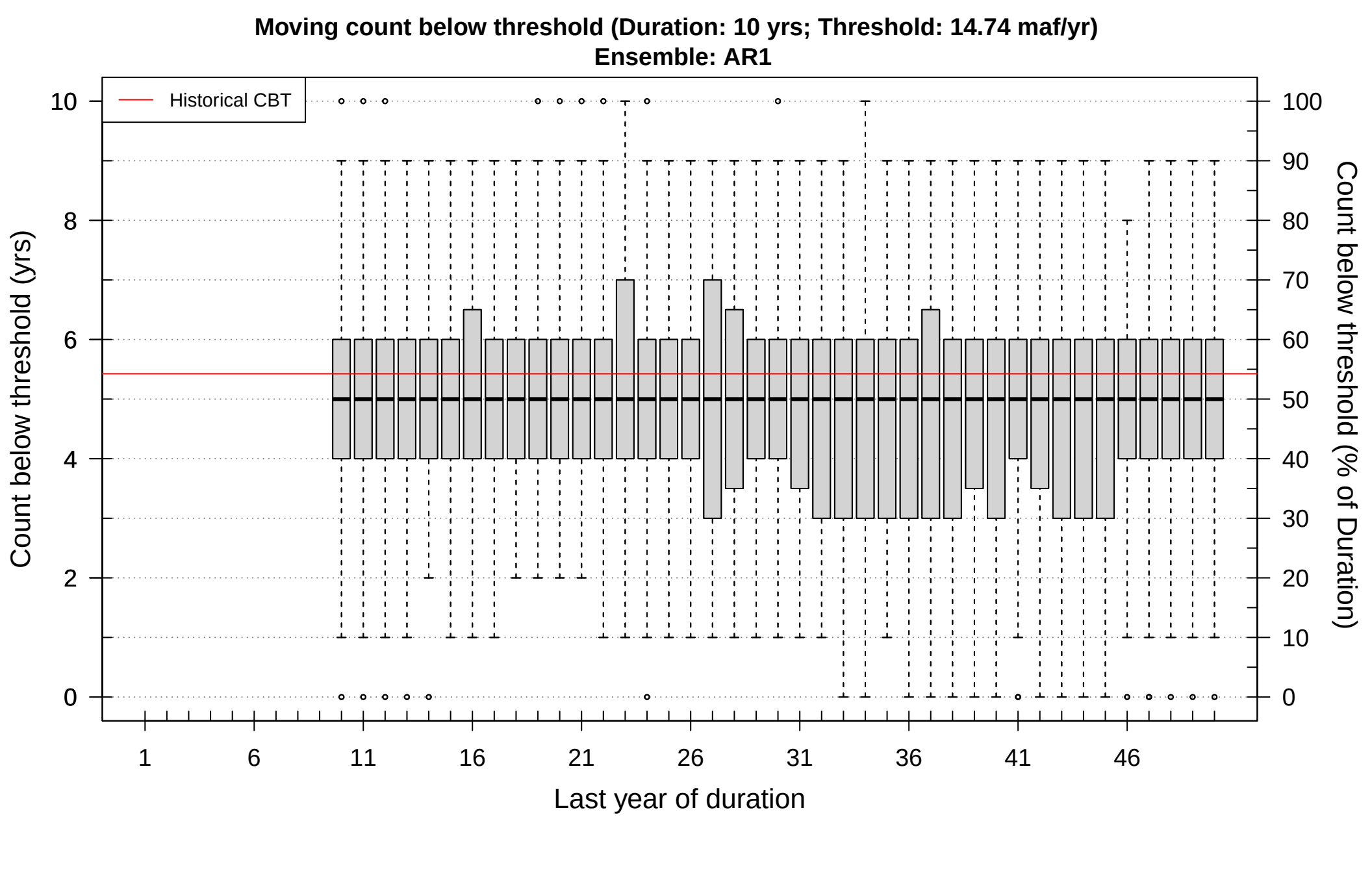

Average Count Below Threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Count below threshold (yrs)
Count below threshold (% of Duration)
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
Historical count below threshold
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

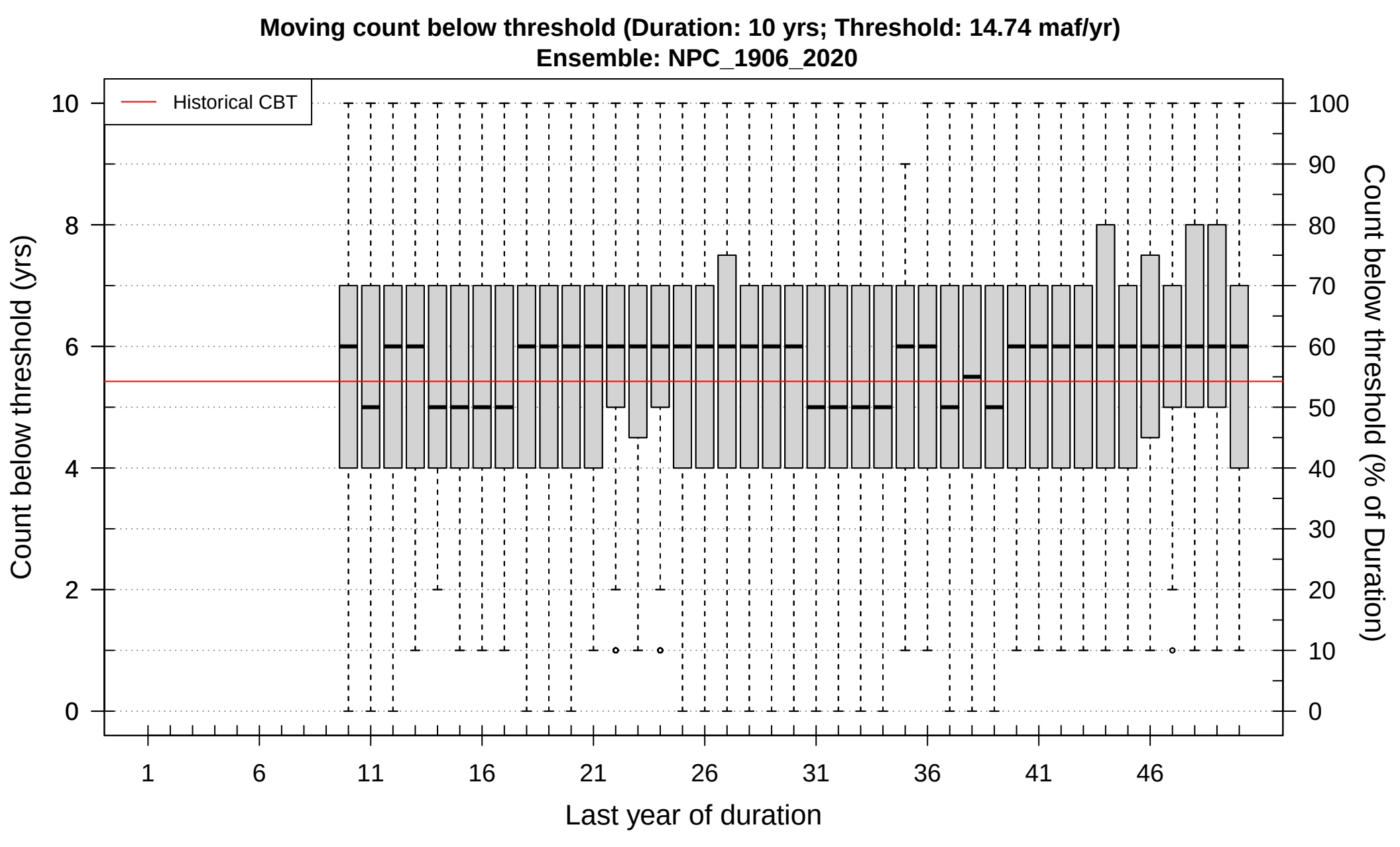

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: ISM_1906_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

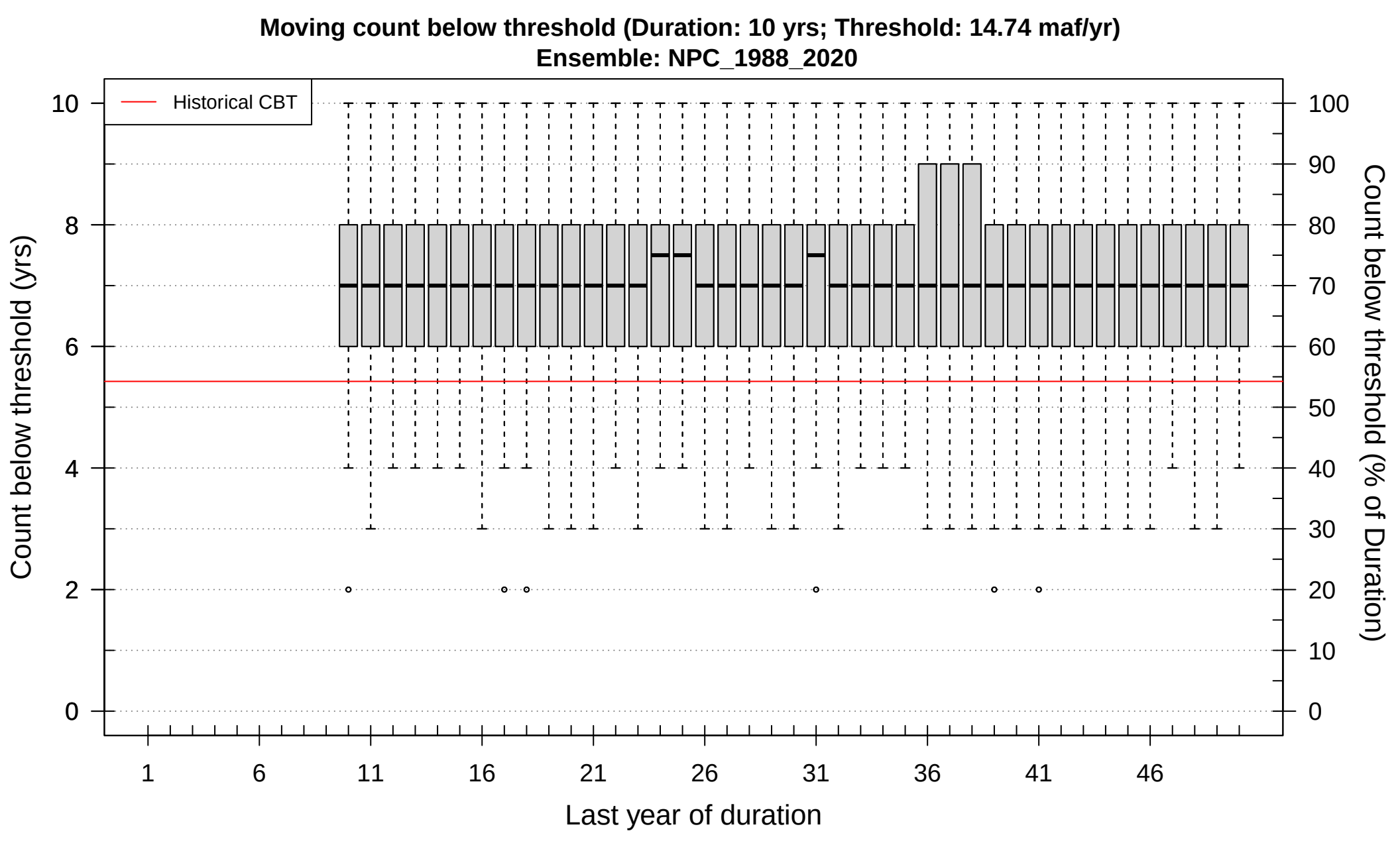

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: ISM_1931_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

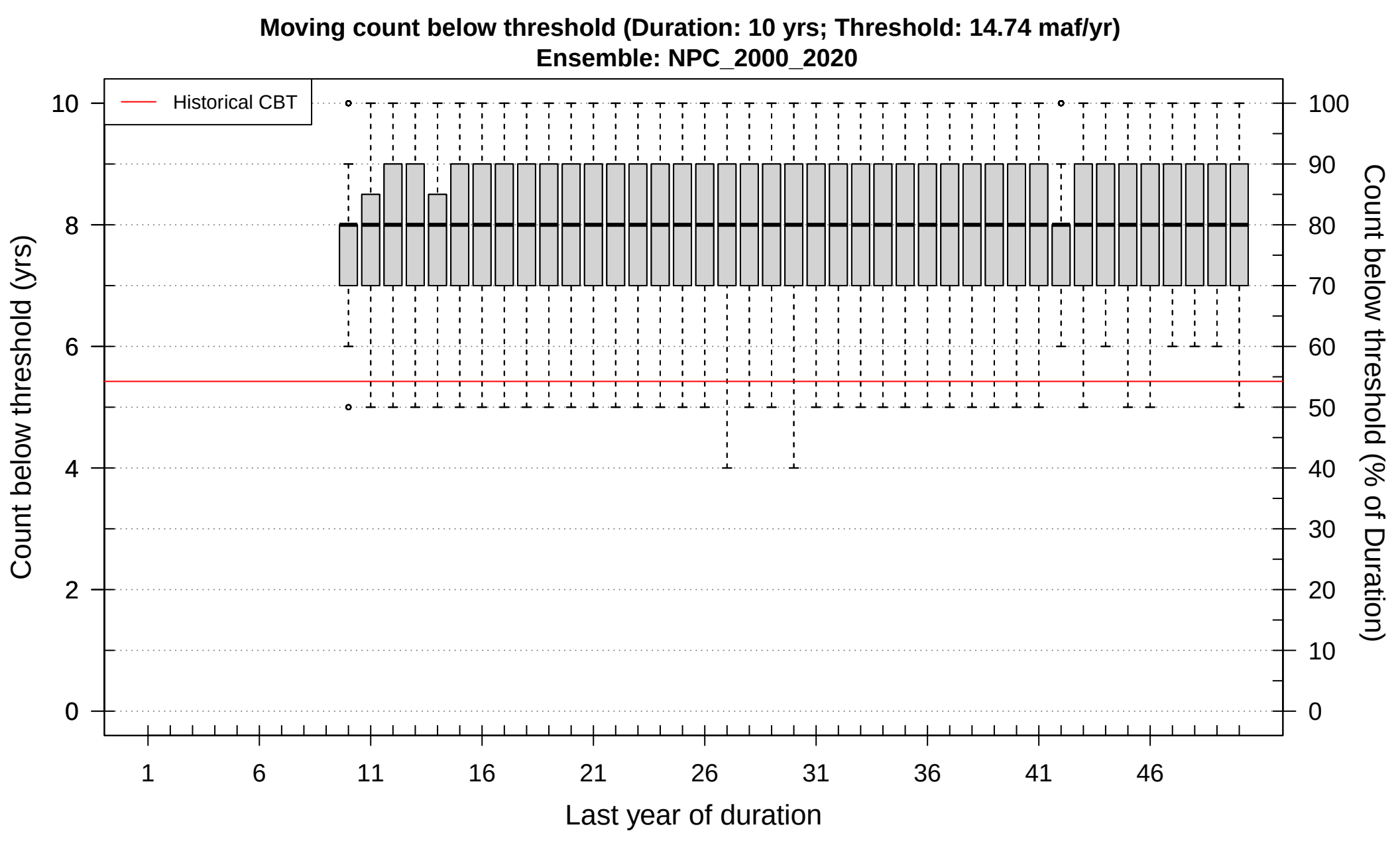

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: ISM_1988_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31

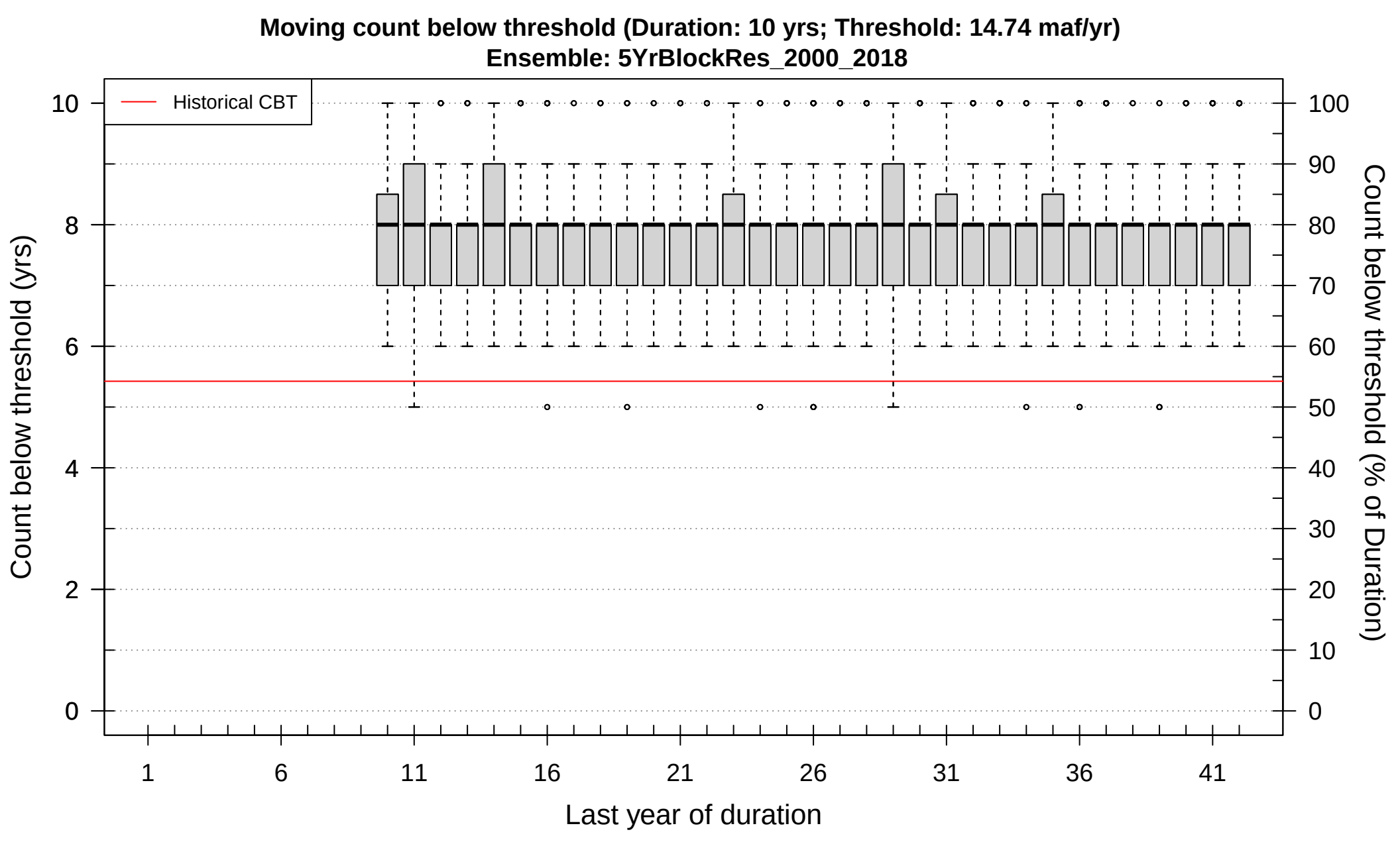

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: ISM_1416_2015
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

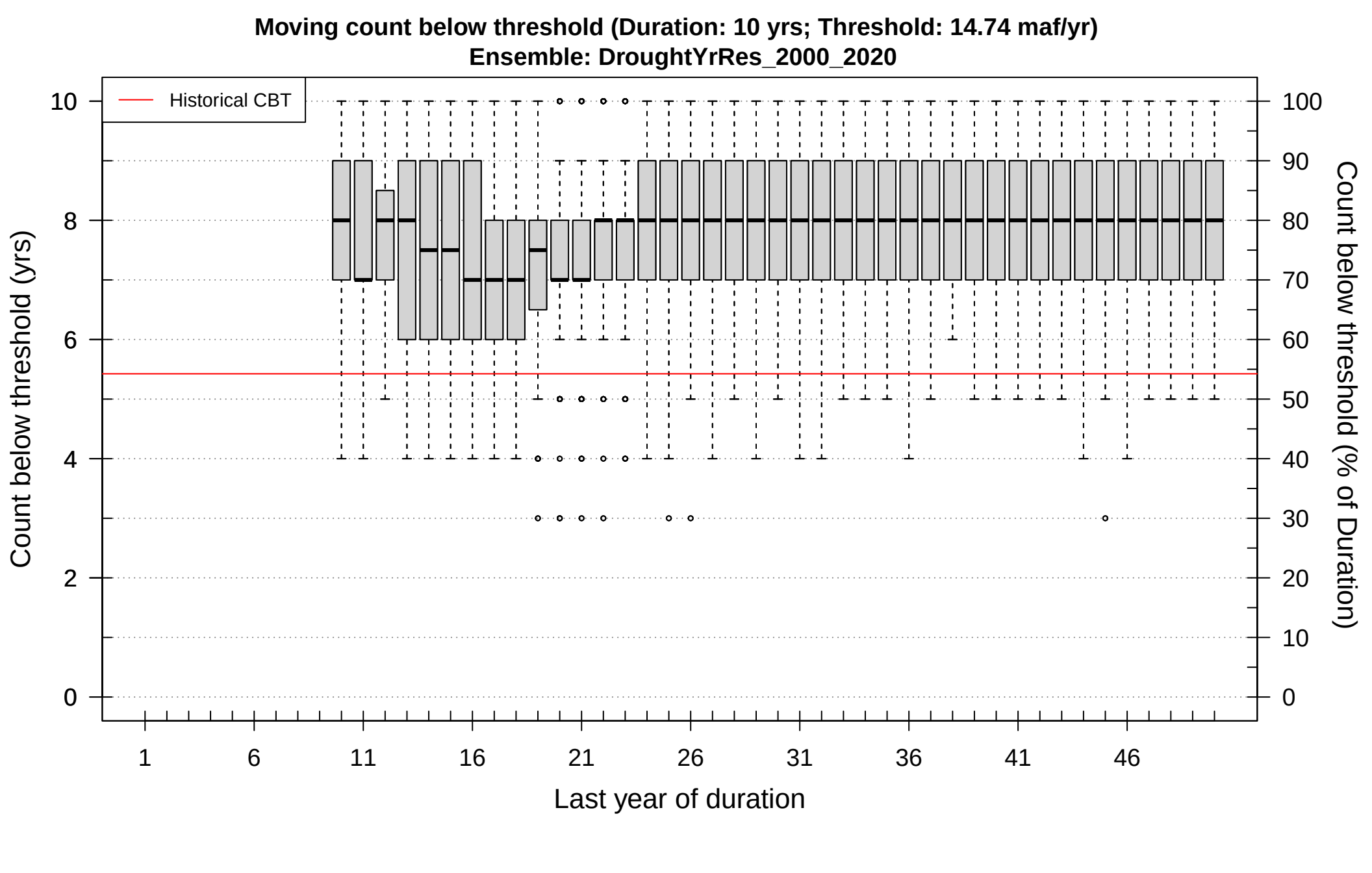

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: AR1
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

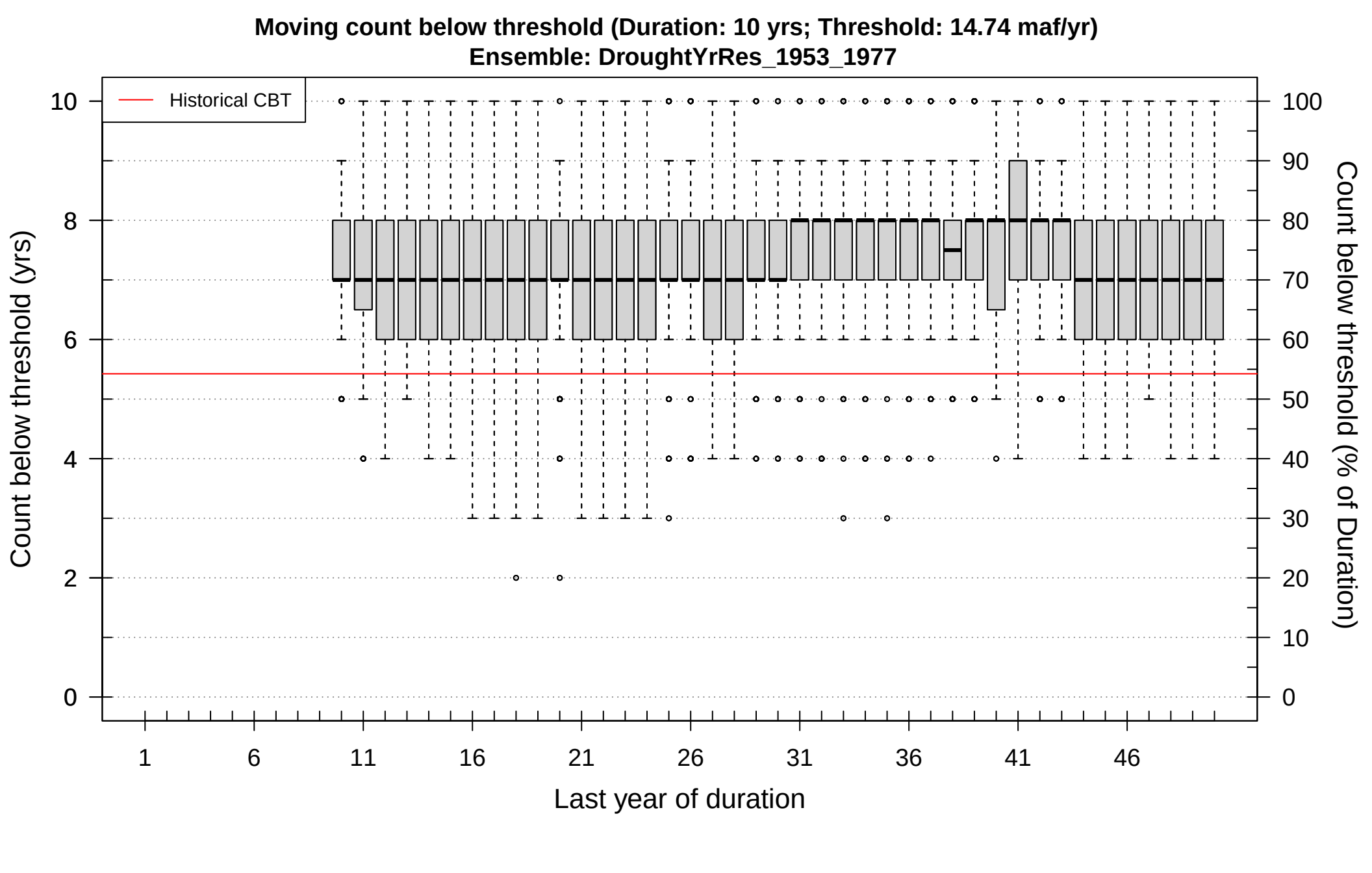

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: NPC_1906_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

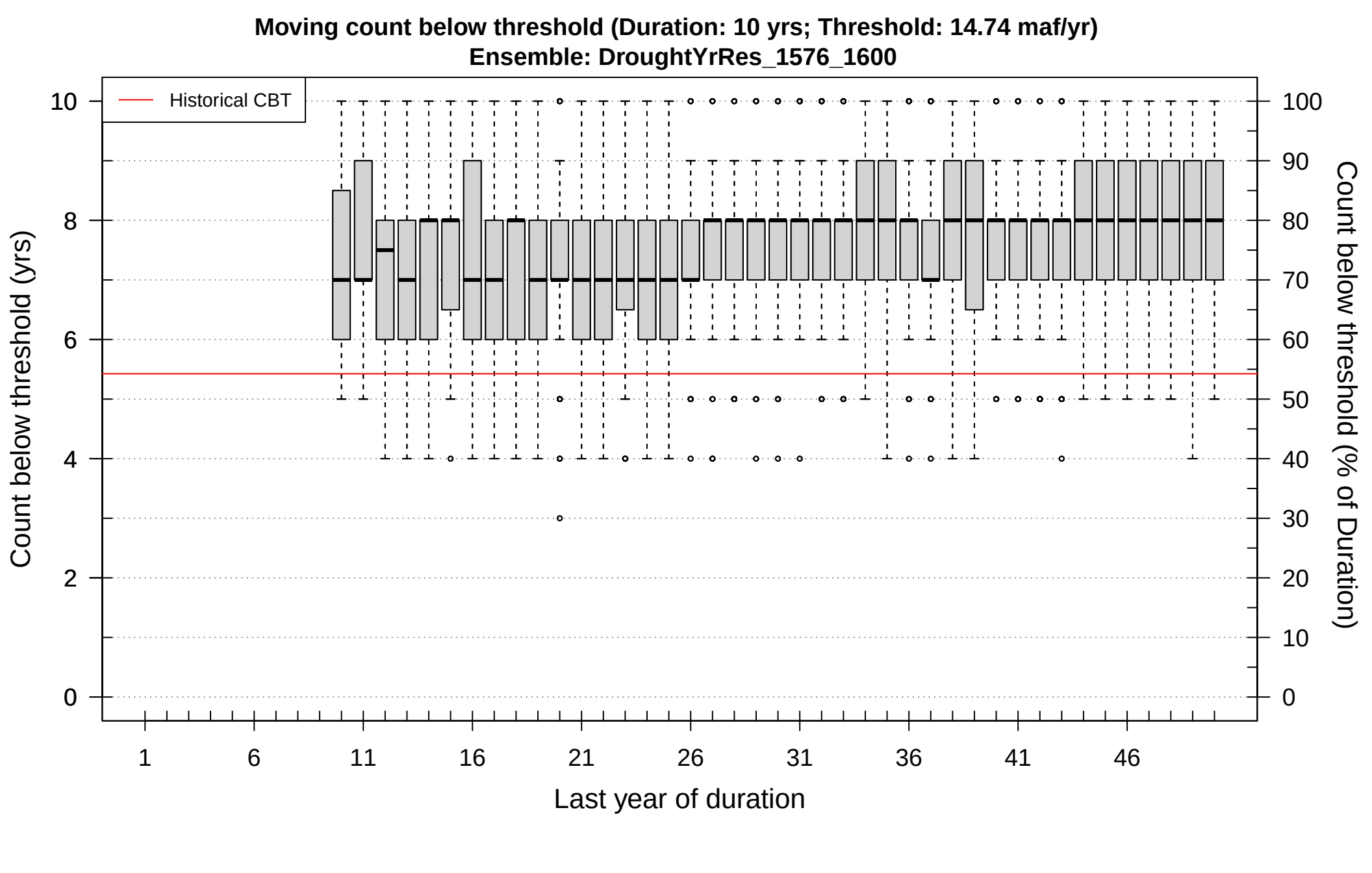

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: NPC_1988_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

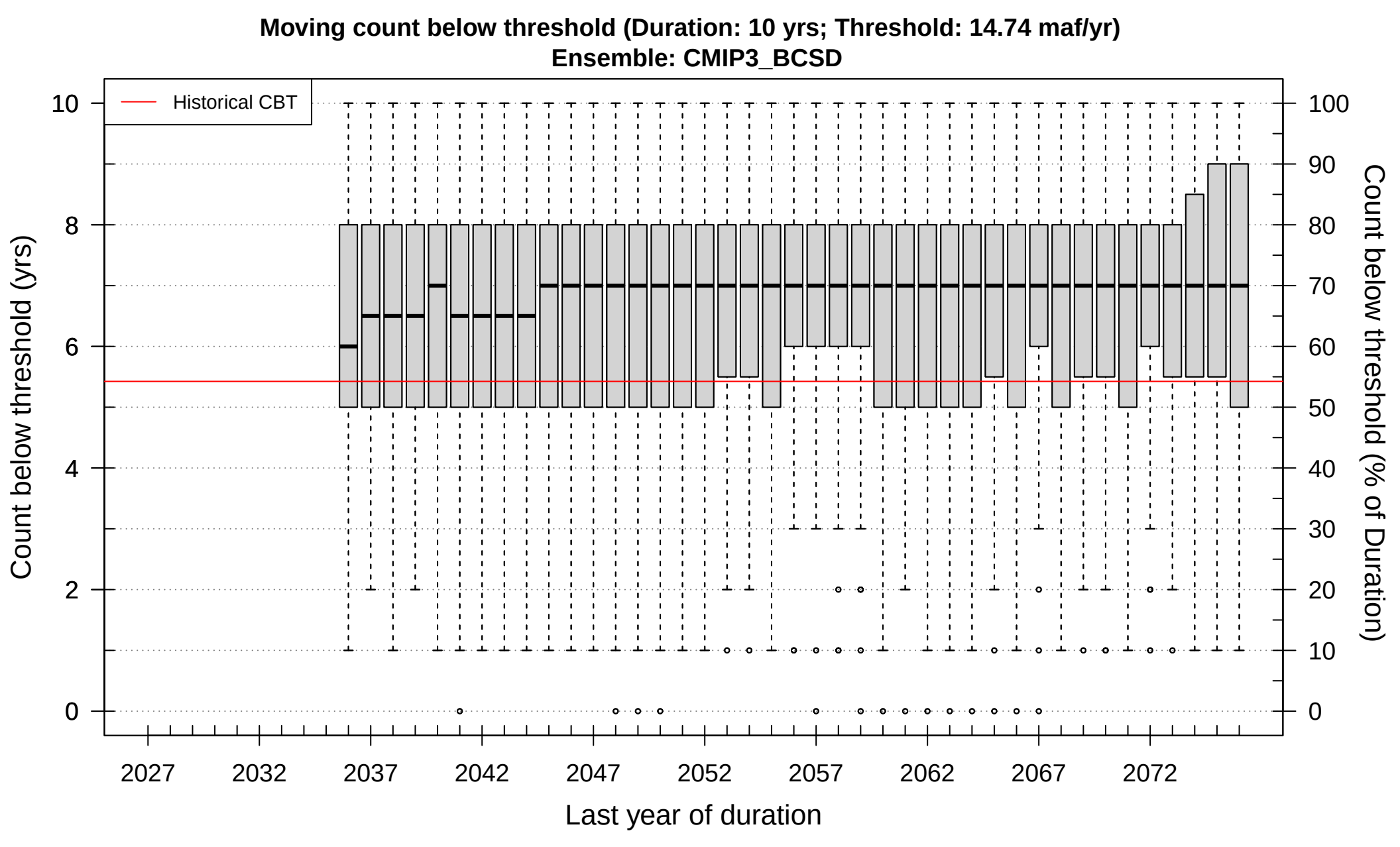

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: NPC_2000_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

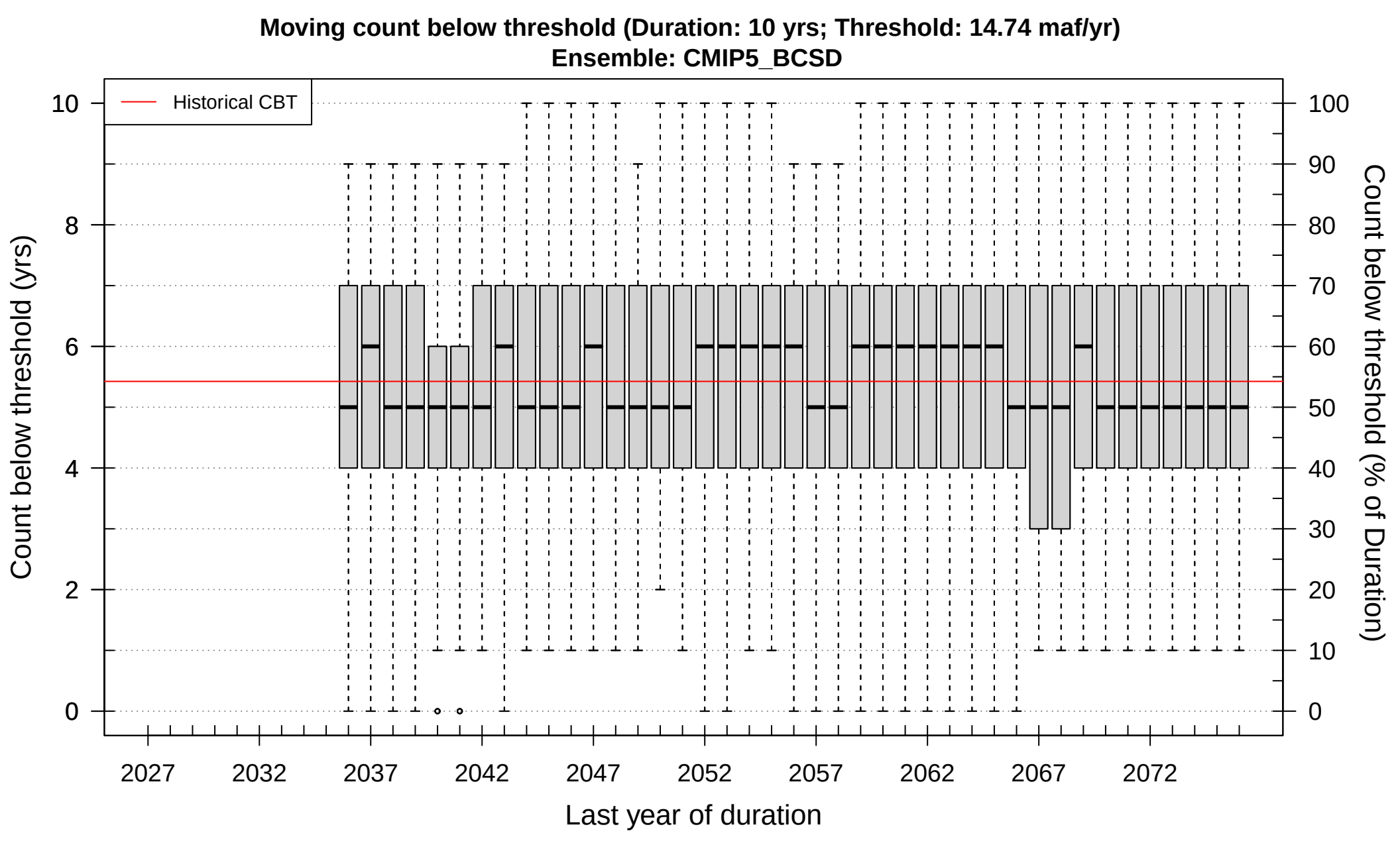

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: 5YrBlockRes_2000_2018
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41

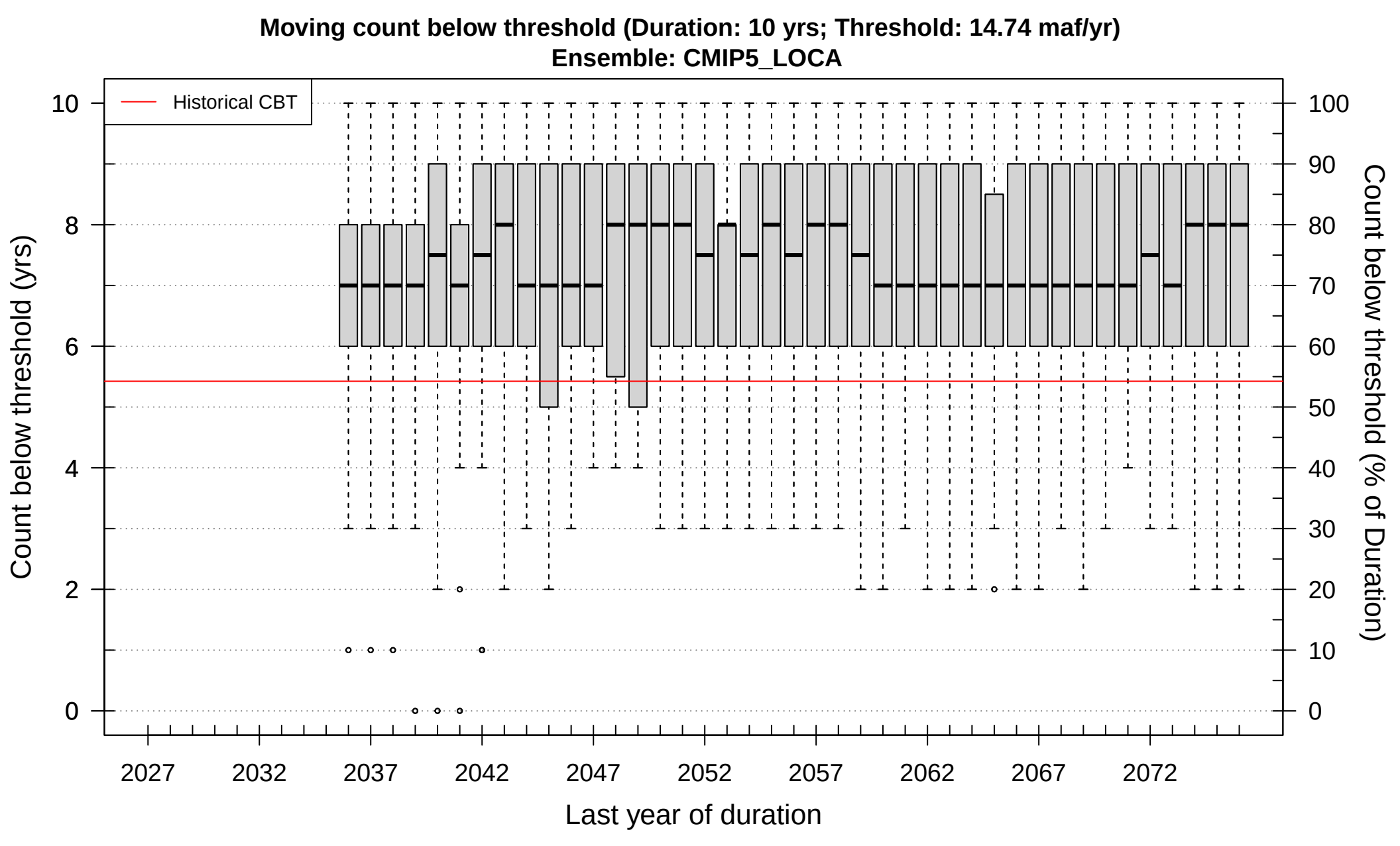

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: DroughtYrRes_2000_2020
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

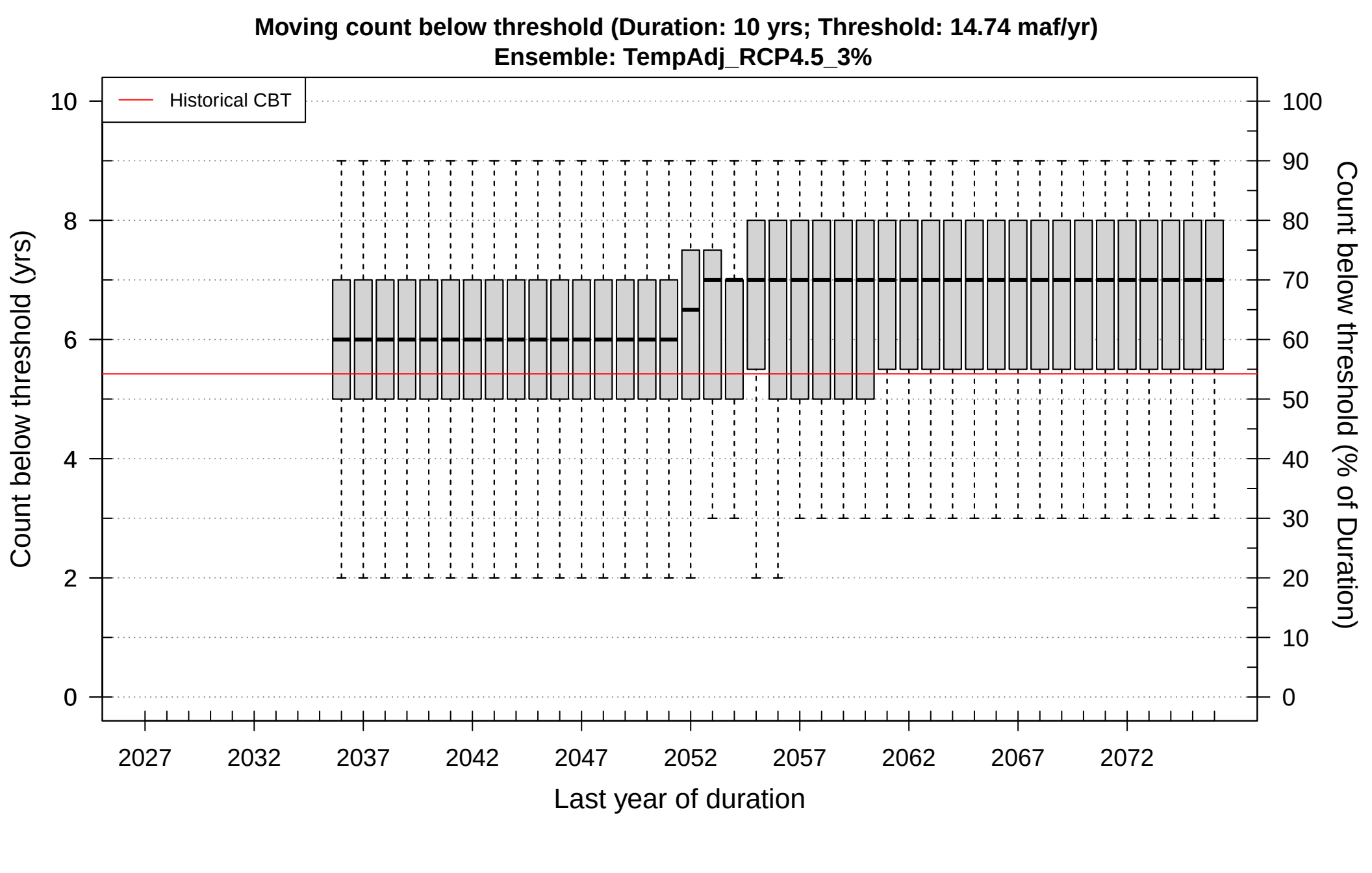

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: DroughtYrRes_1953_1977
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

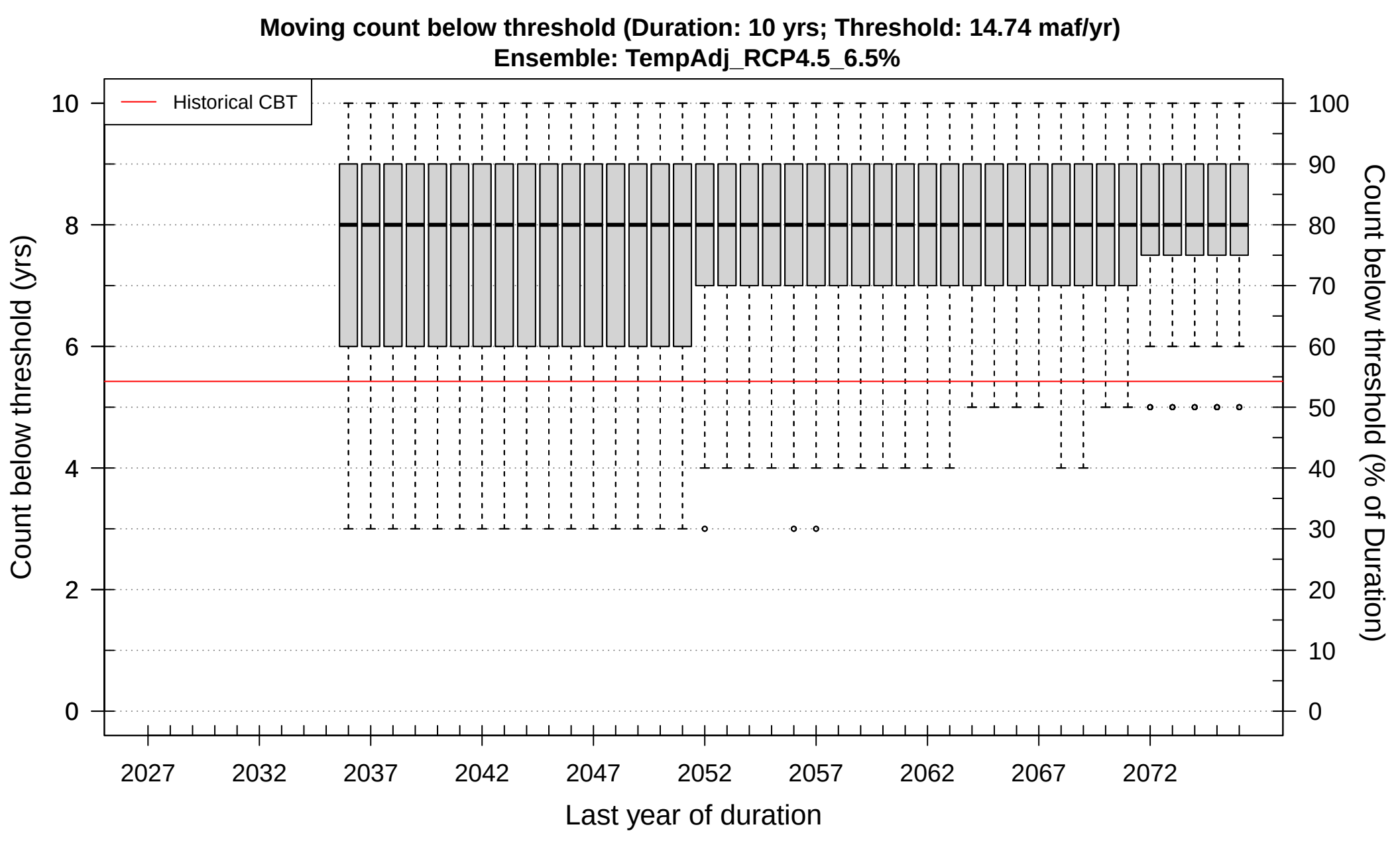

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: DroughtYrRes_1576_1600
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

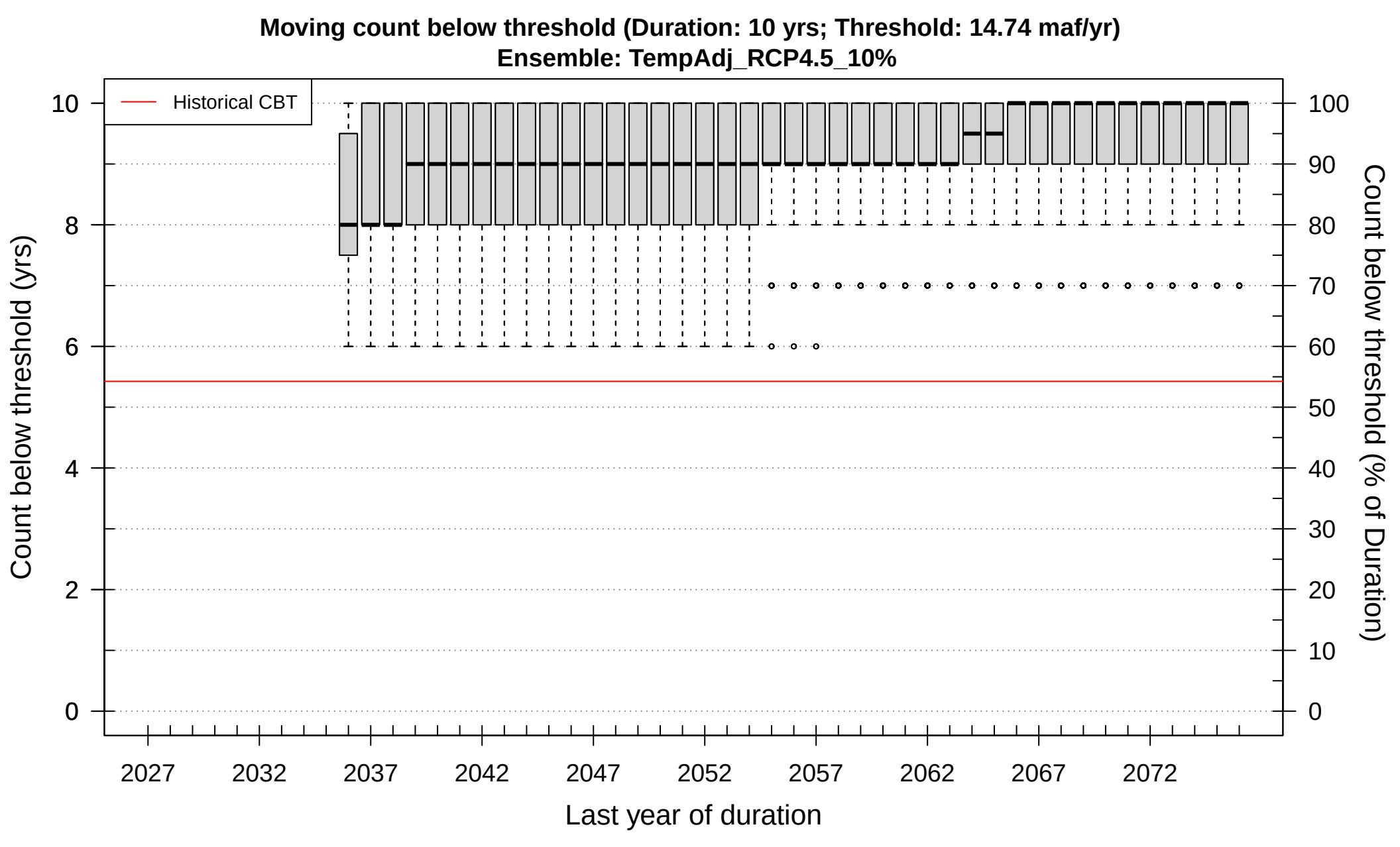

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: CMIP3_BCSD
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

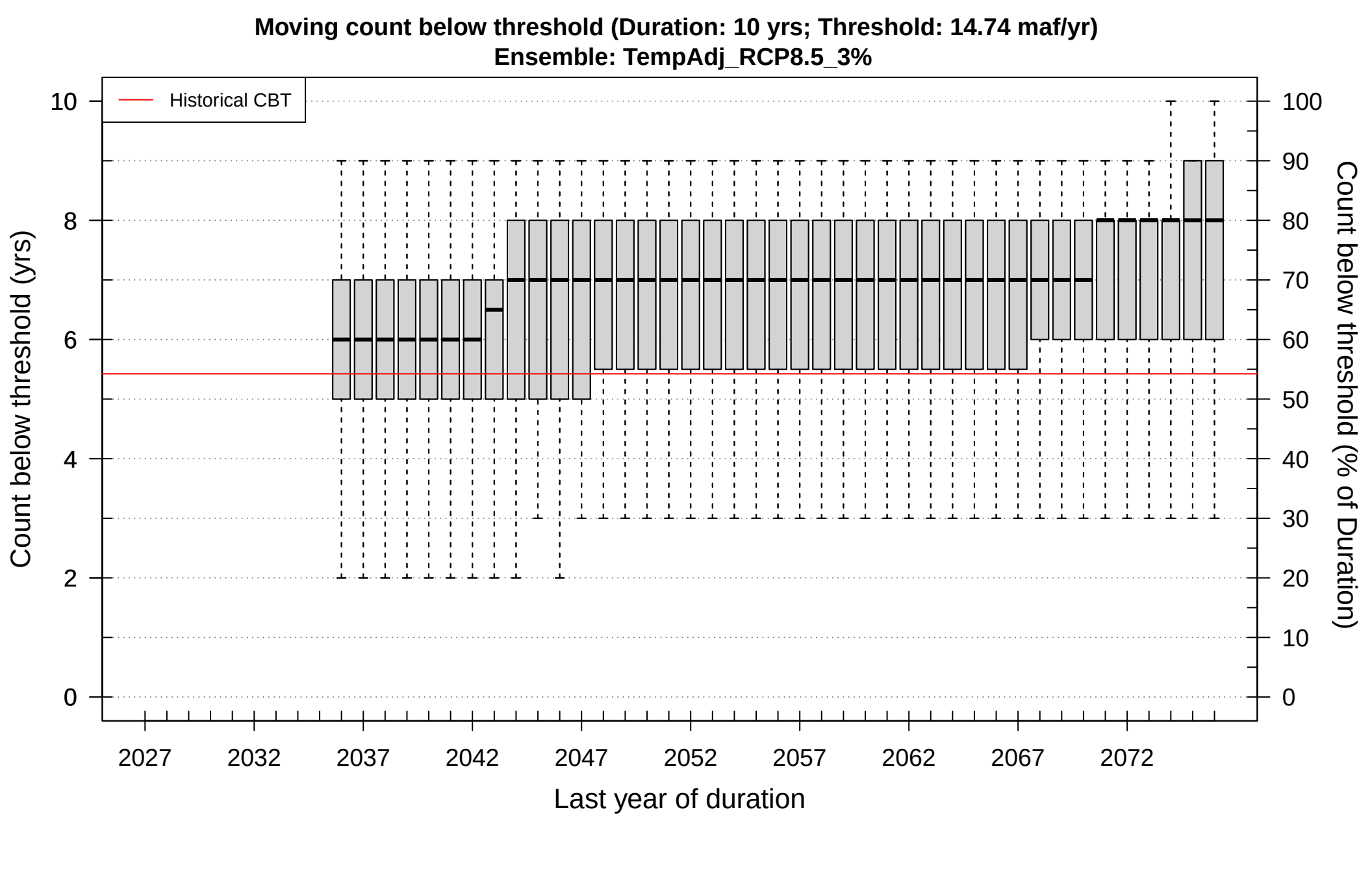

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: CMIP5_BCSD
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

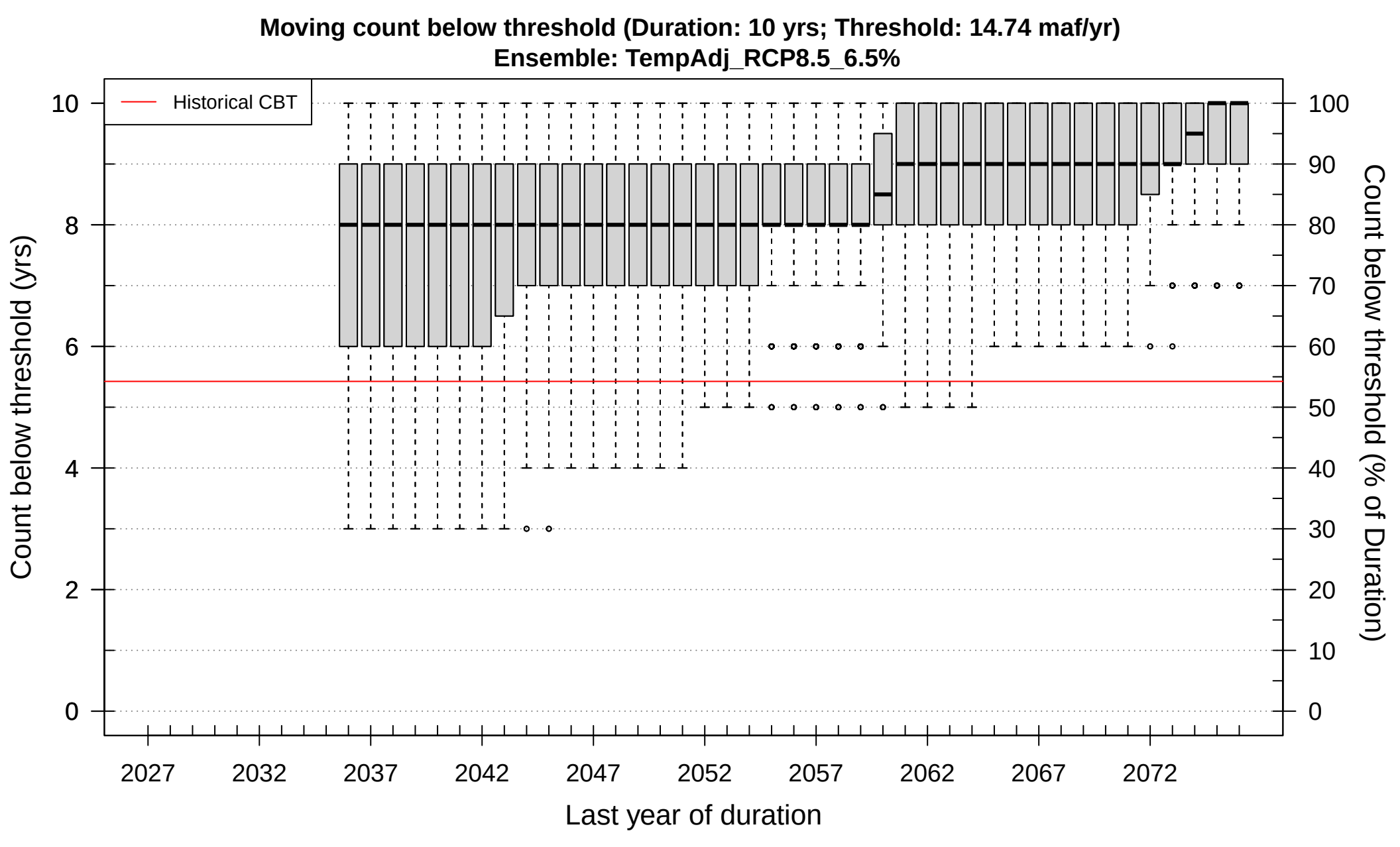

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: CMIP5_LOCA
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

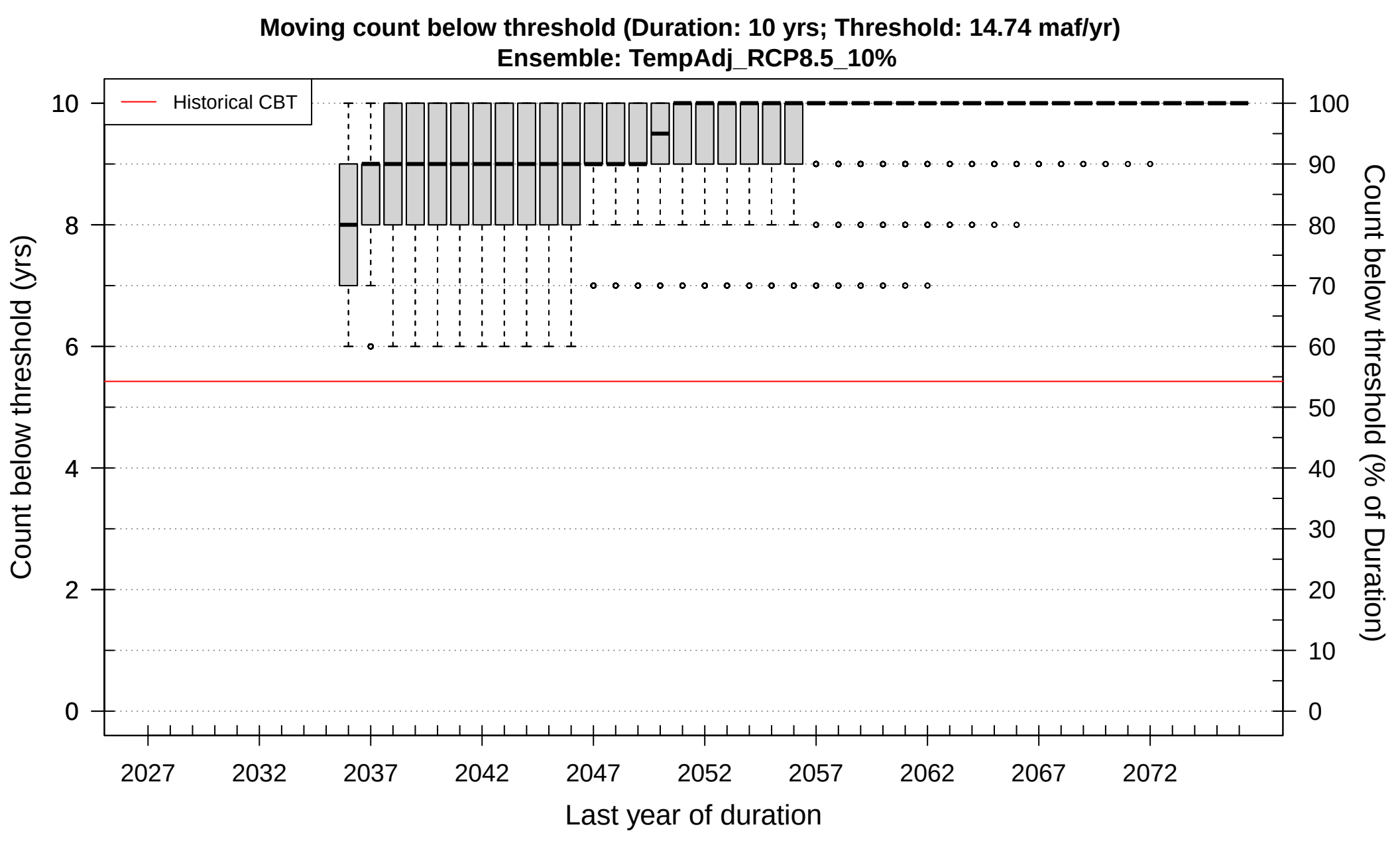

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP4.5_3%
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

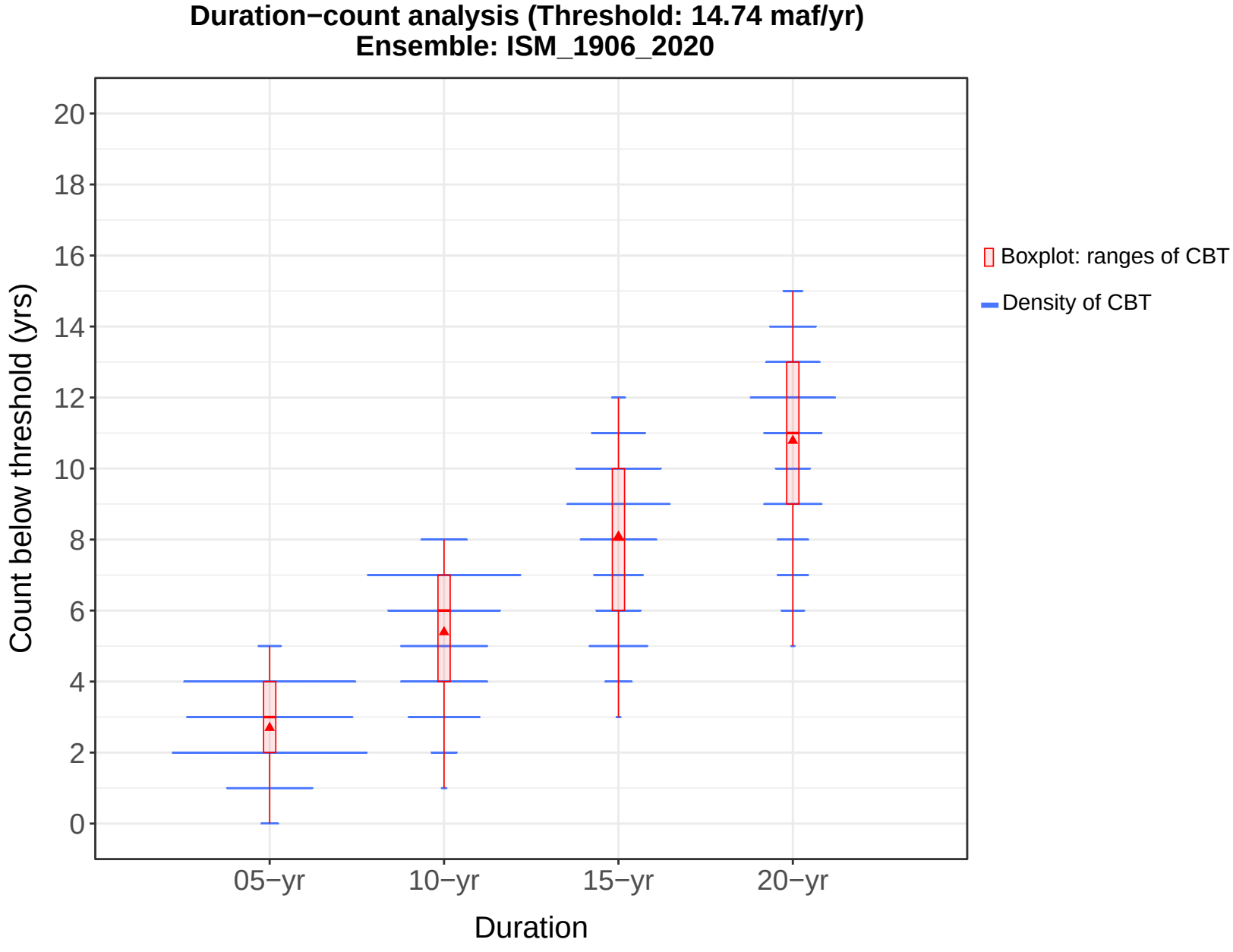

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP4.5_6.5%
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

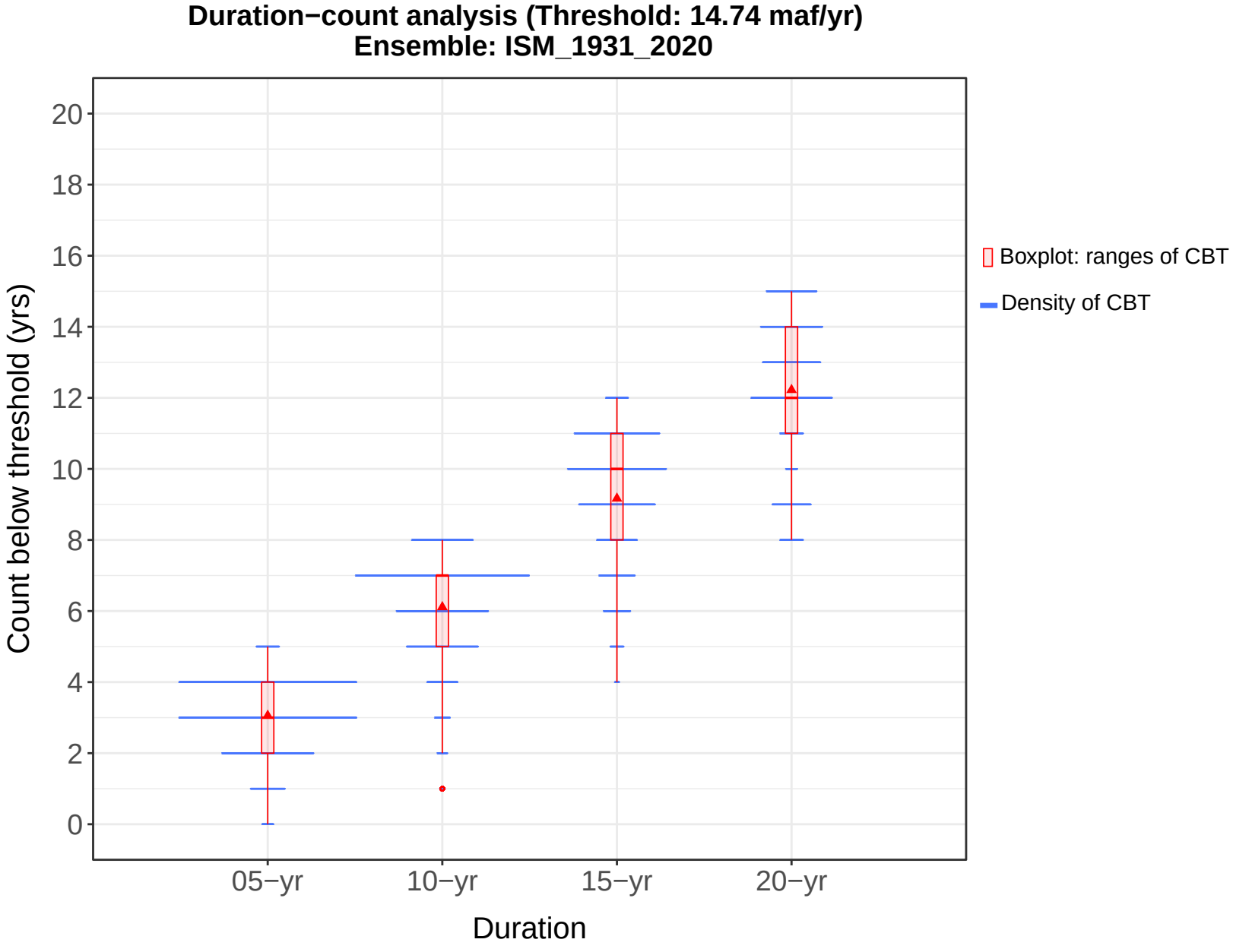

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP4.5_10%
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

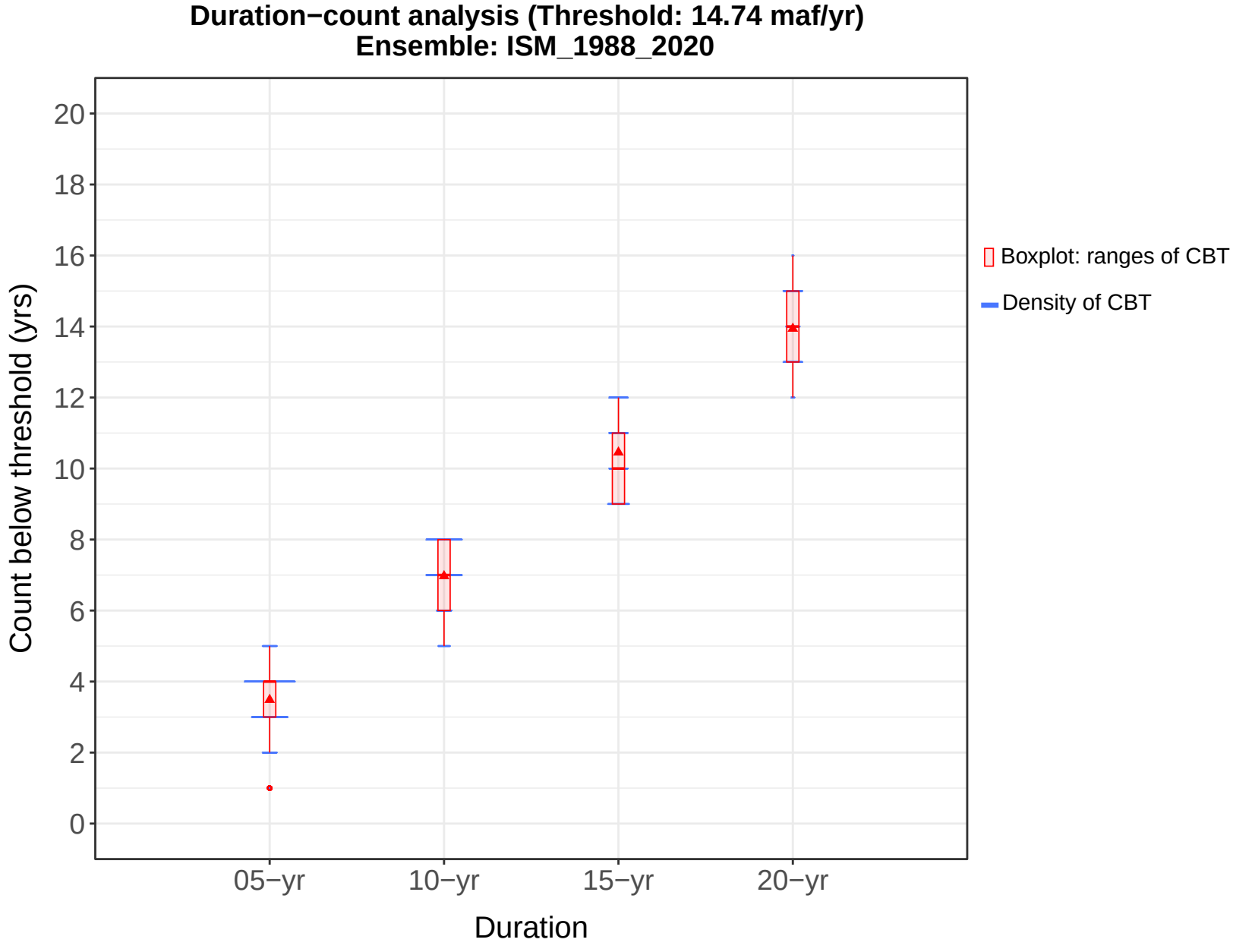

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP8.5_3%
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

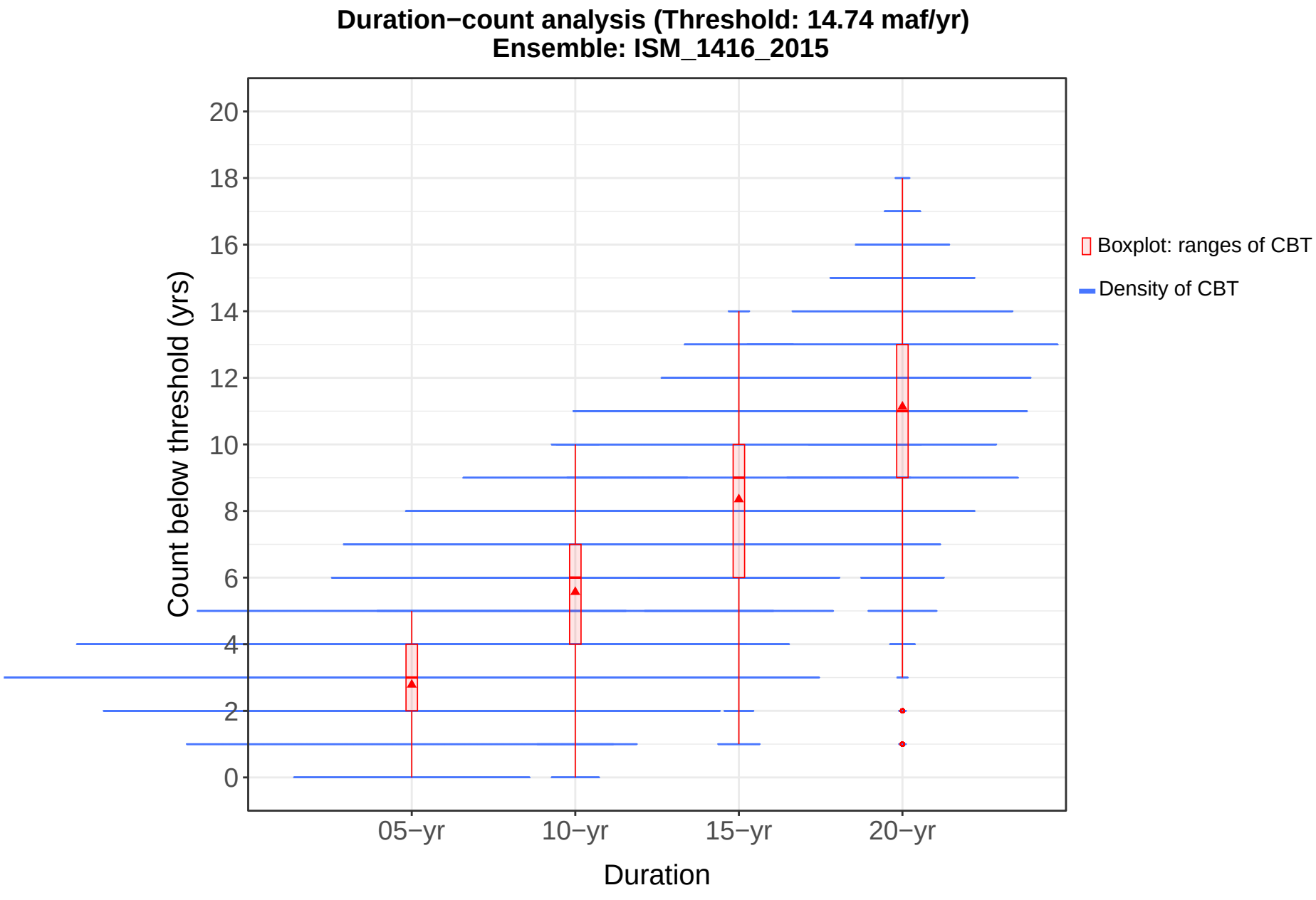

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP8.5_6.5%
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

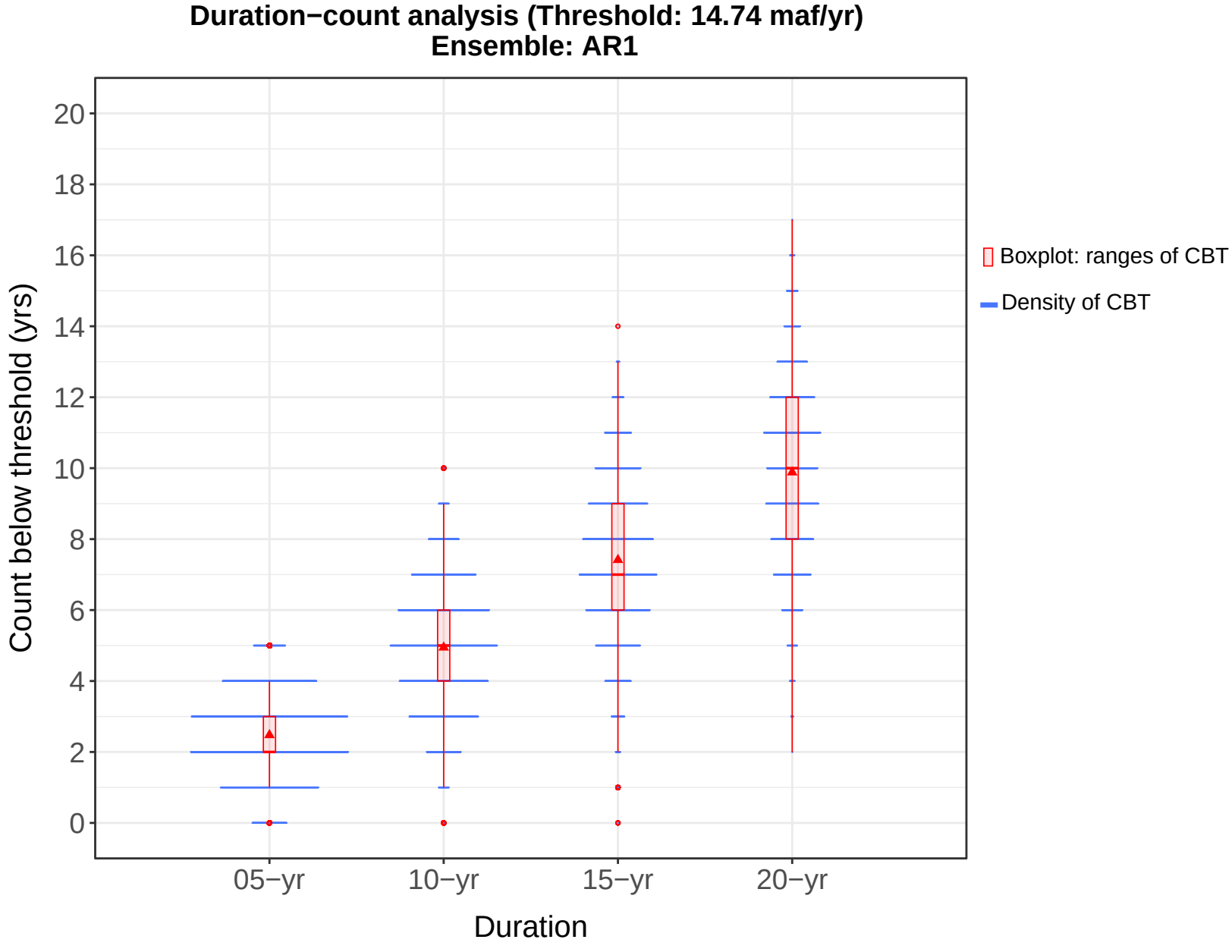

Moving count below threshold (Duration: 10 yrs; Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP8.5_10%
Historical CBT
Count below threshold (yrs)
Count below threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

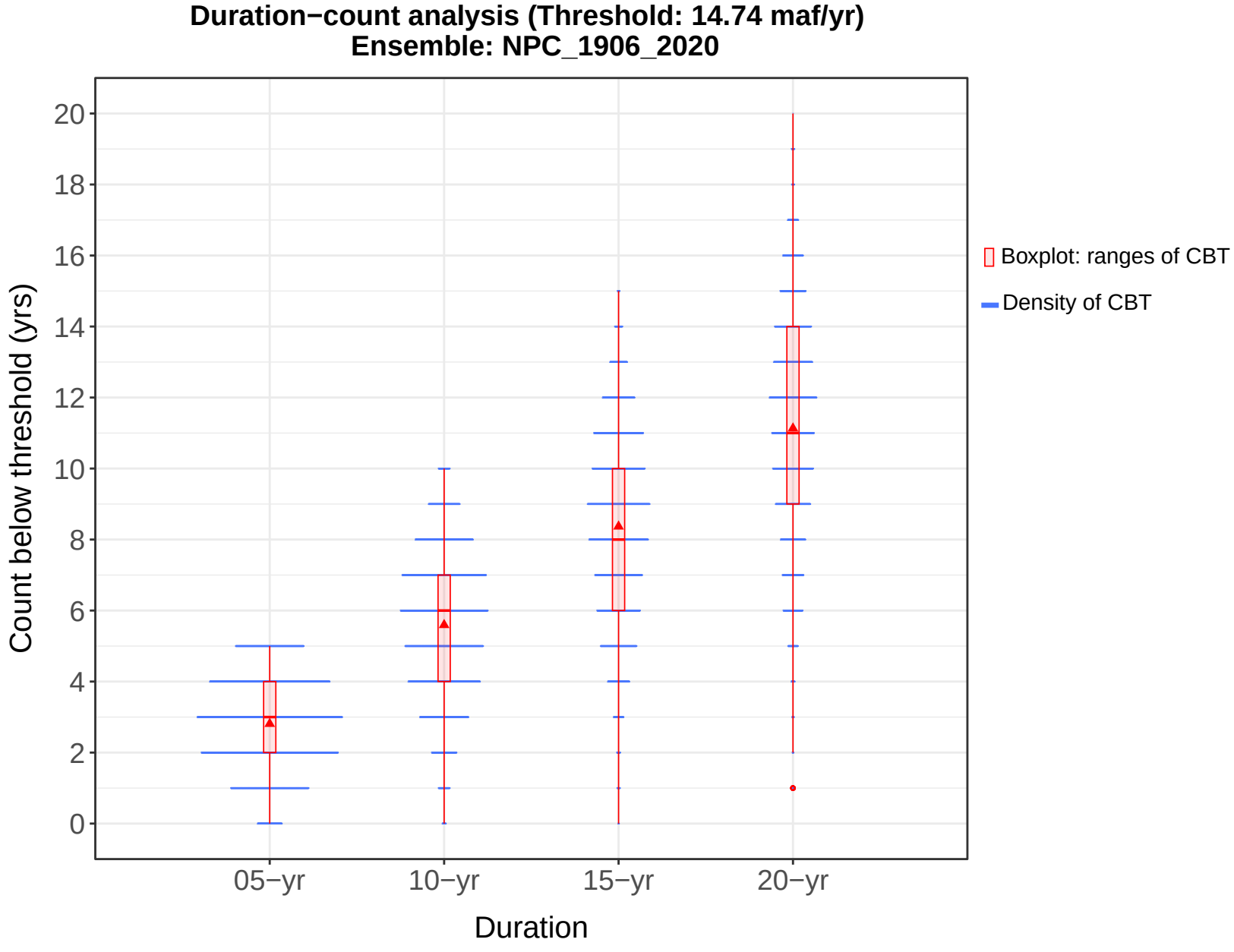

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: ISM_1906_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

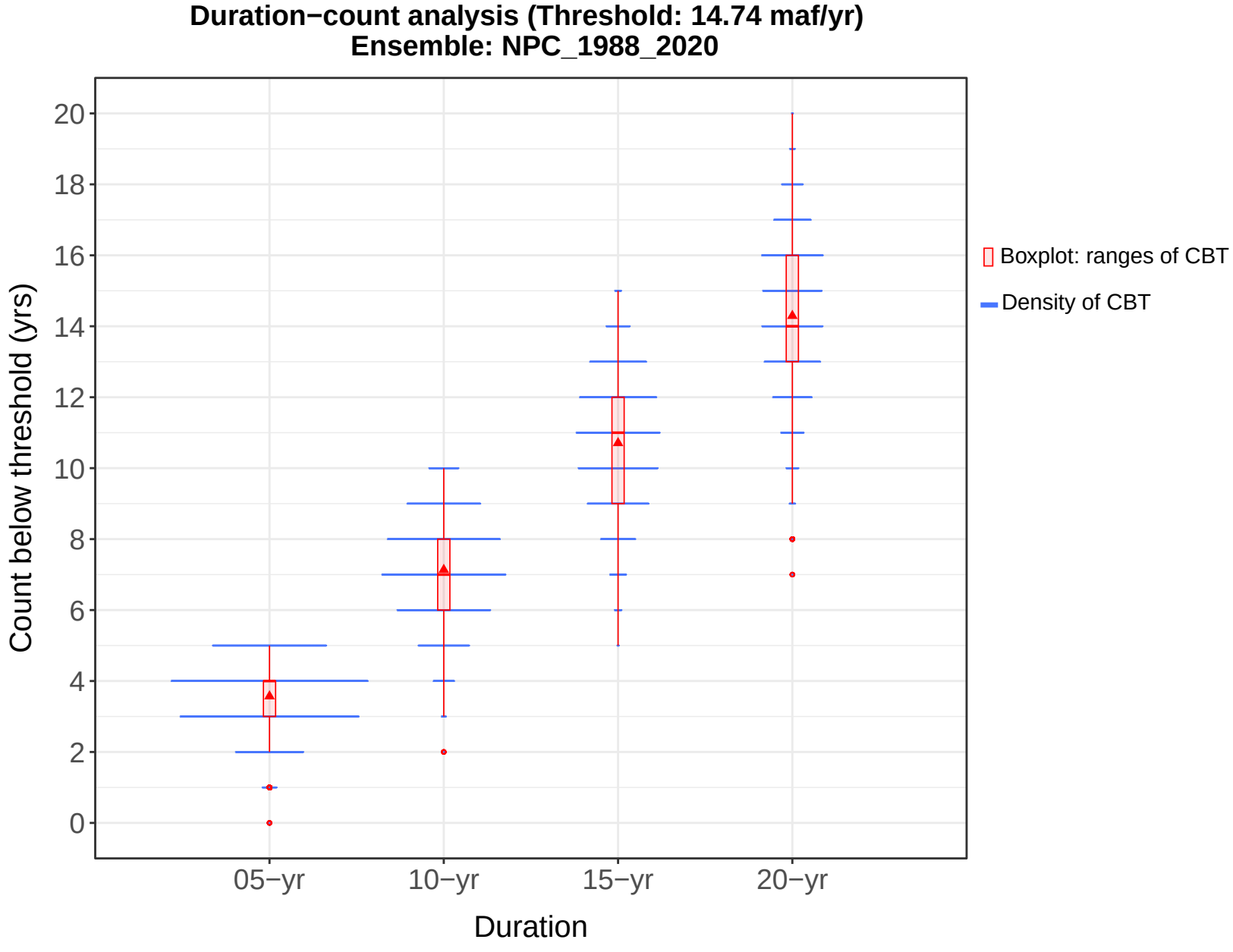

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: ISM_1931_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

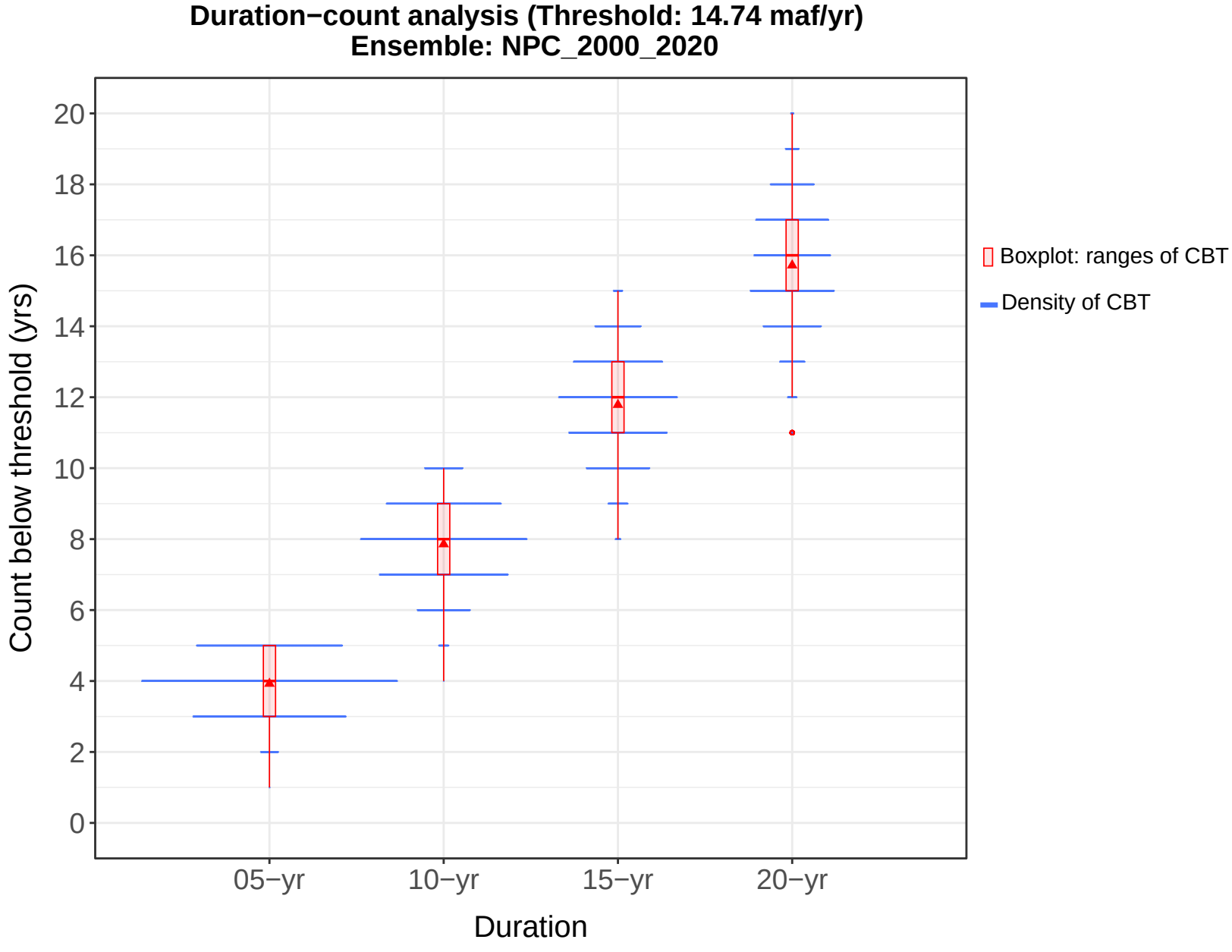

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: ISM_1988_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

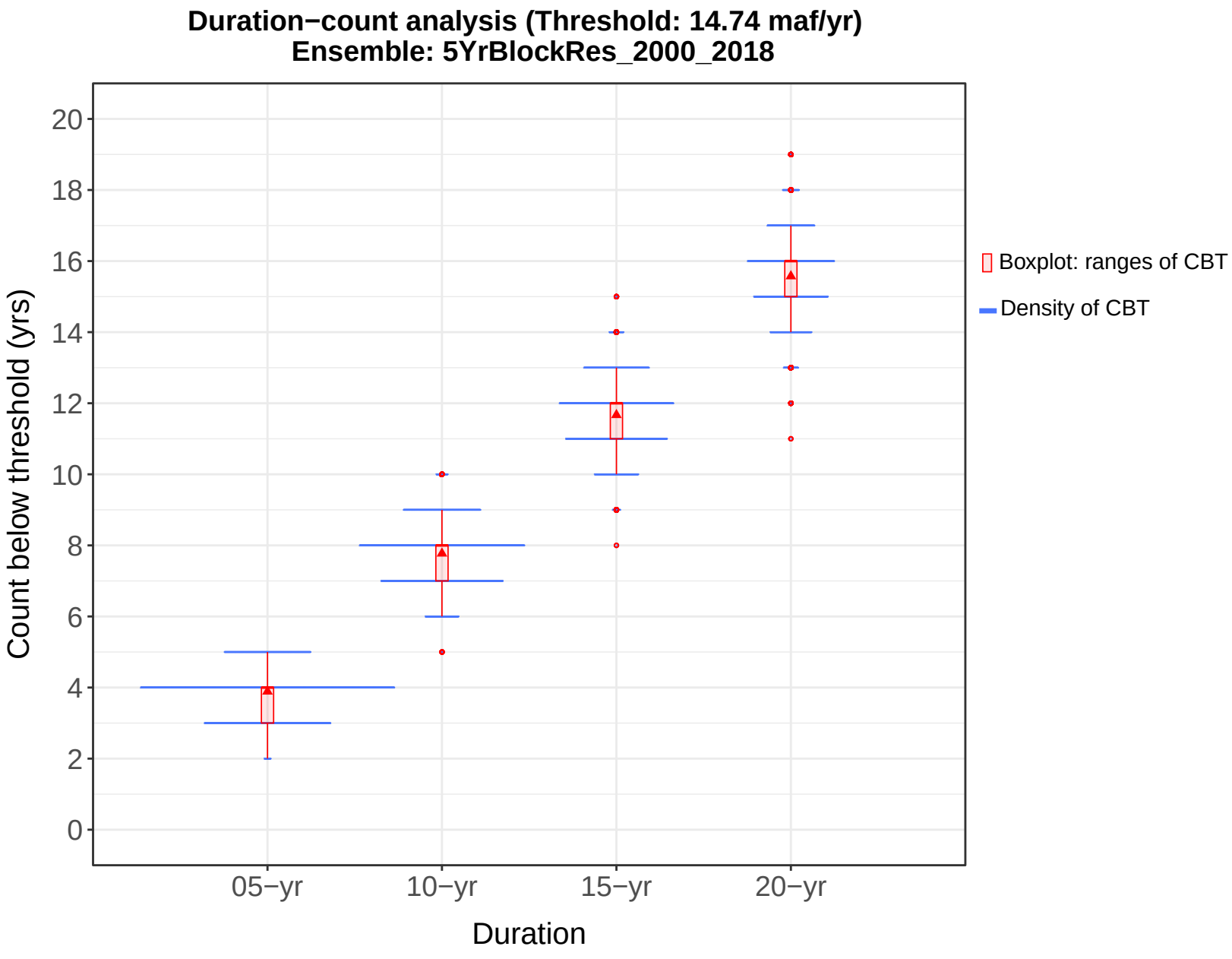

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: ISM_1416_2015
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

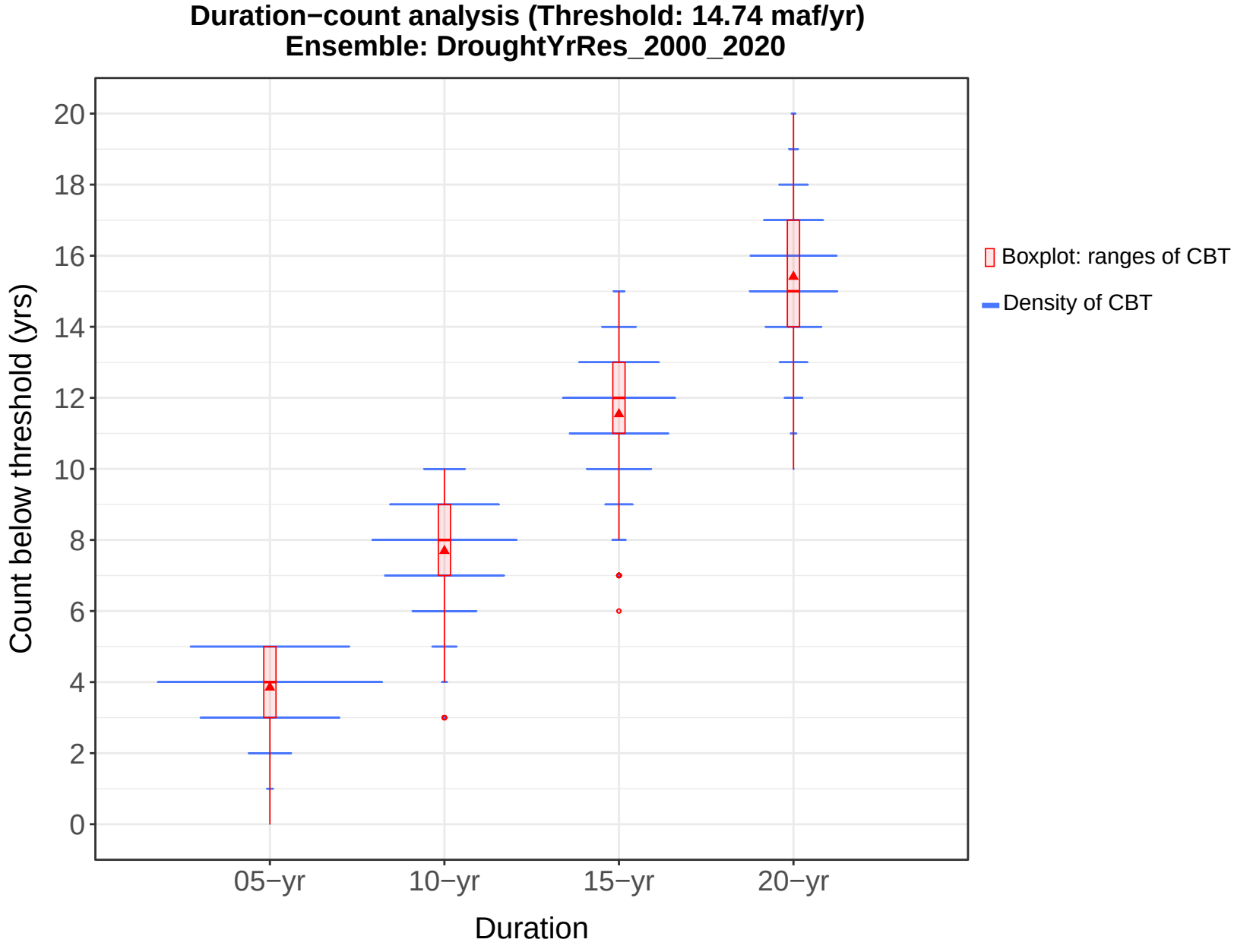

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: AR1
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

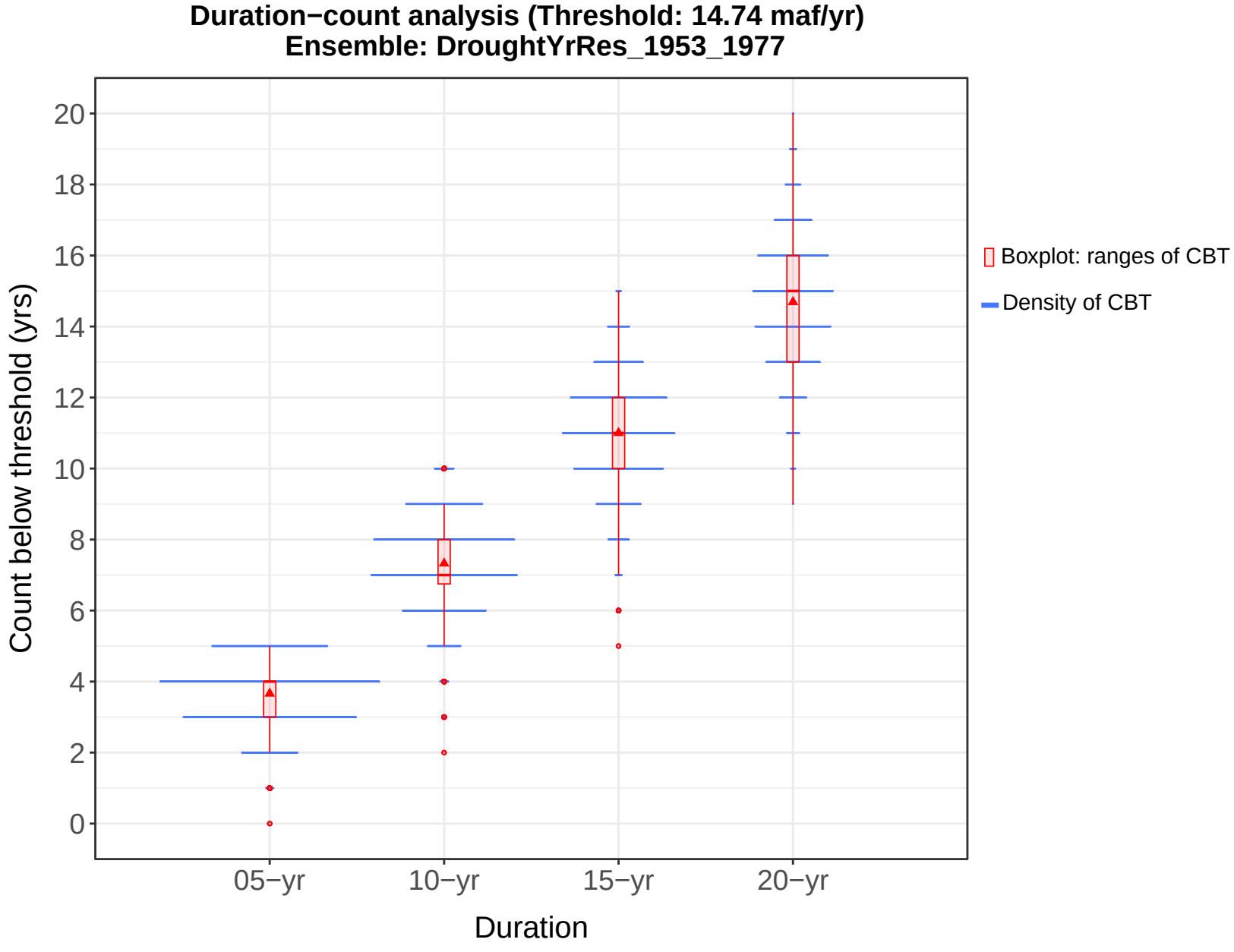

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: NPC_1906_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

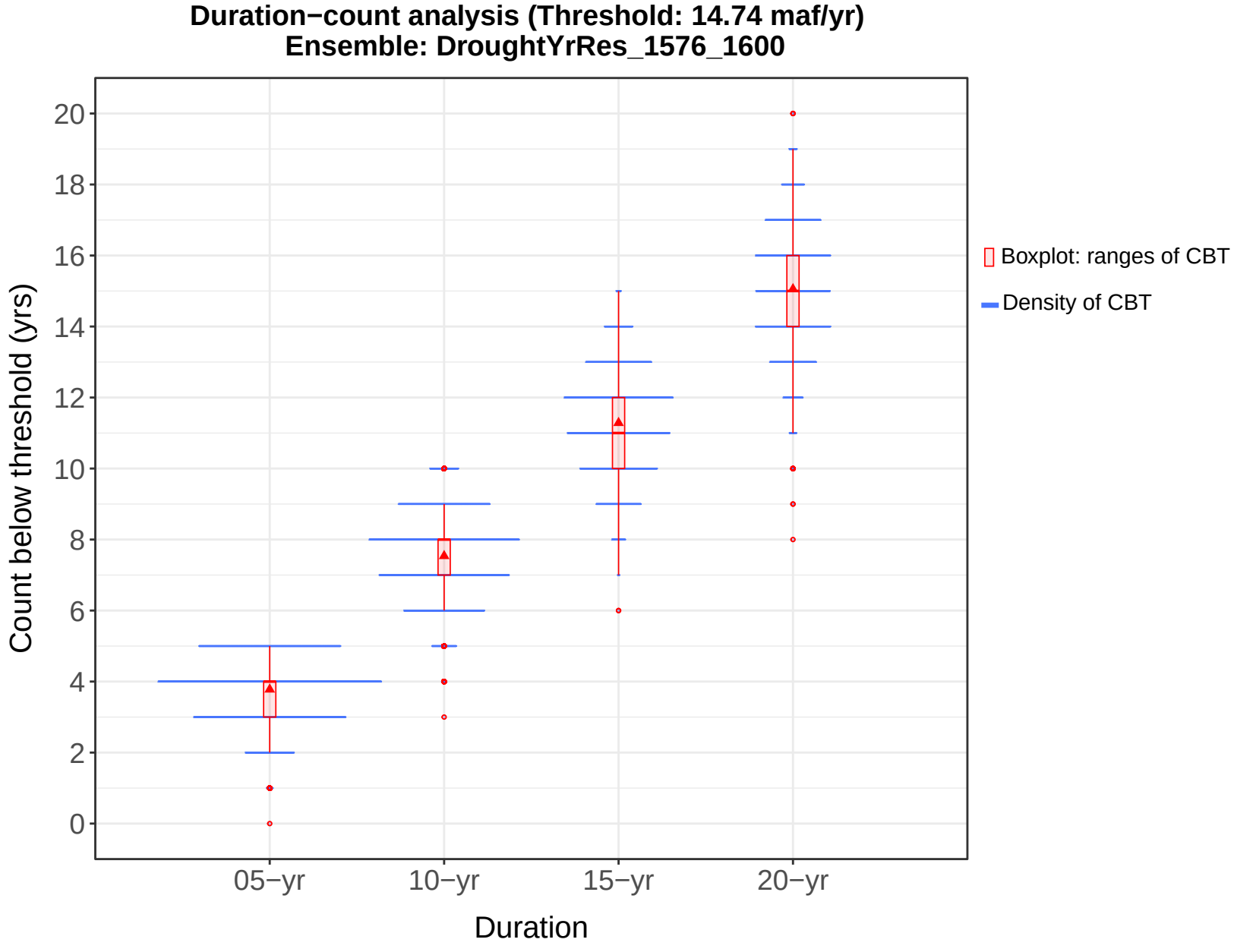

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: NPC_1988_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

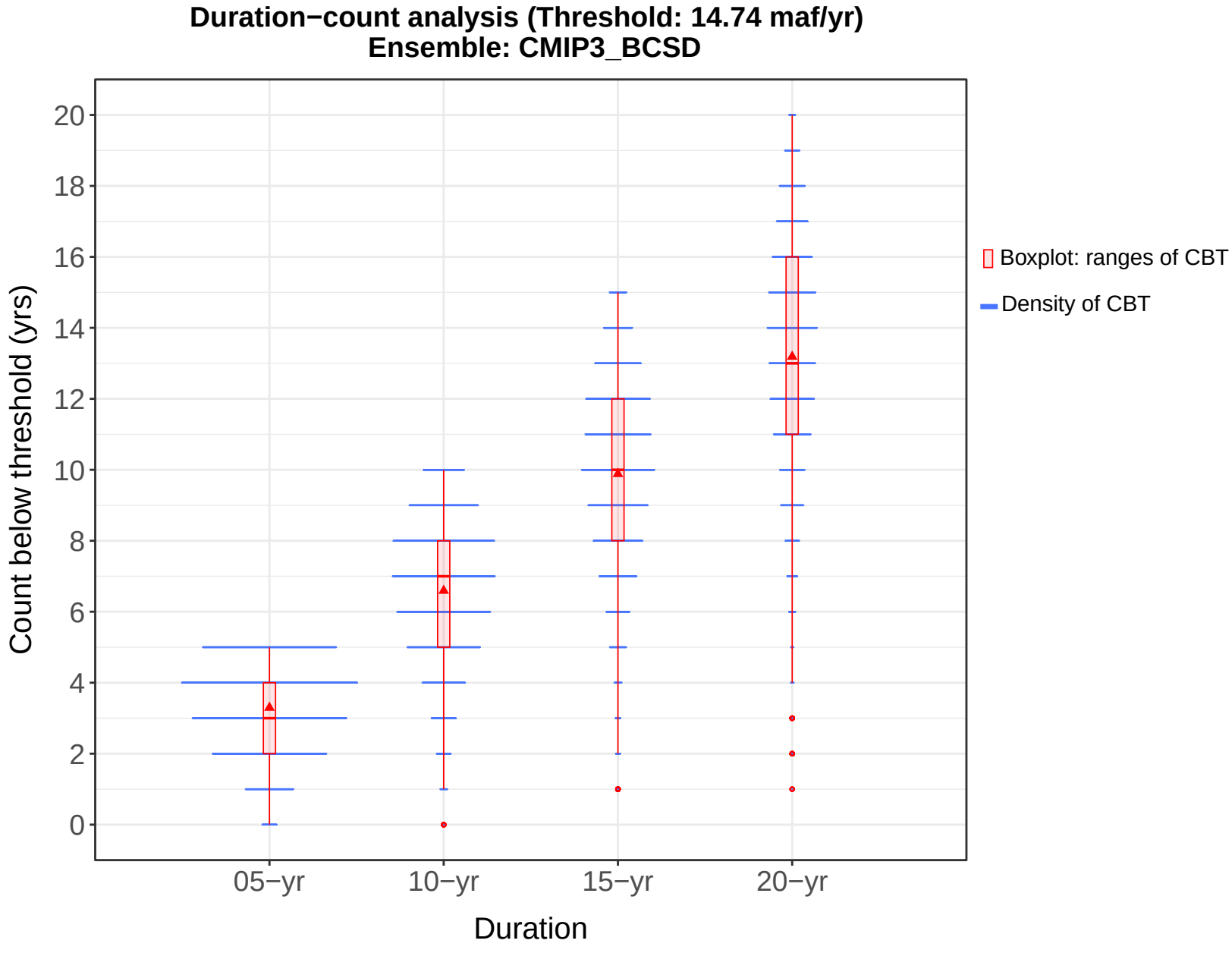

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: NPC_2000_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

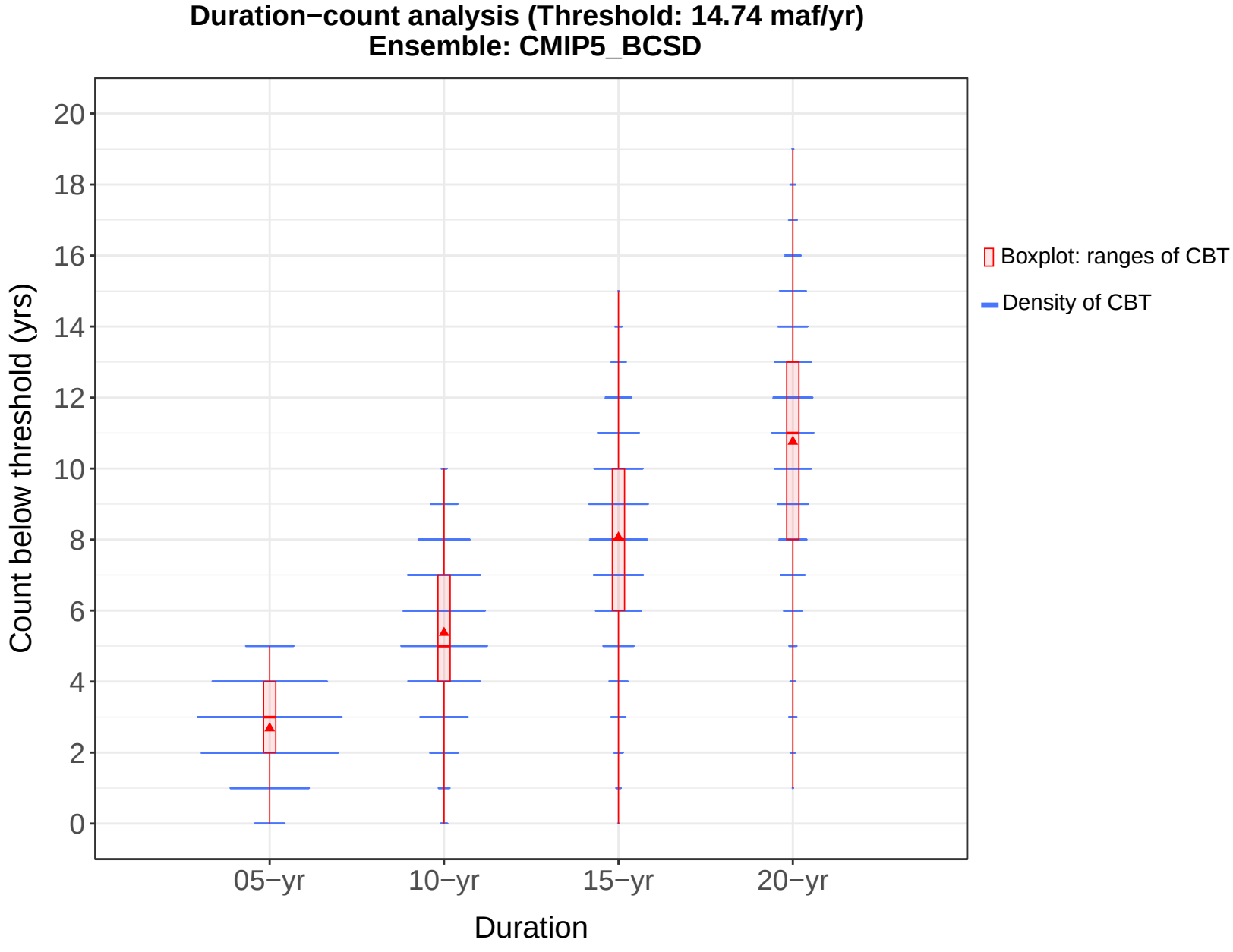

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: 5YrBlockRes_2000_2018
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

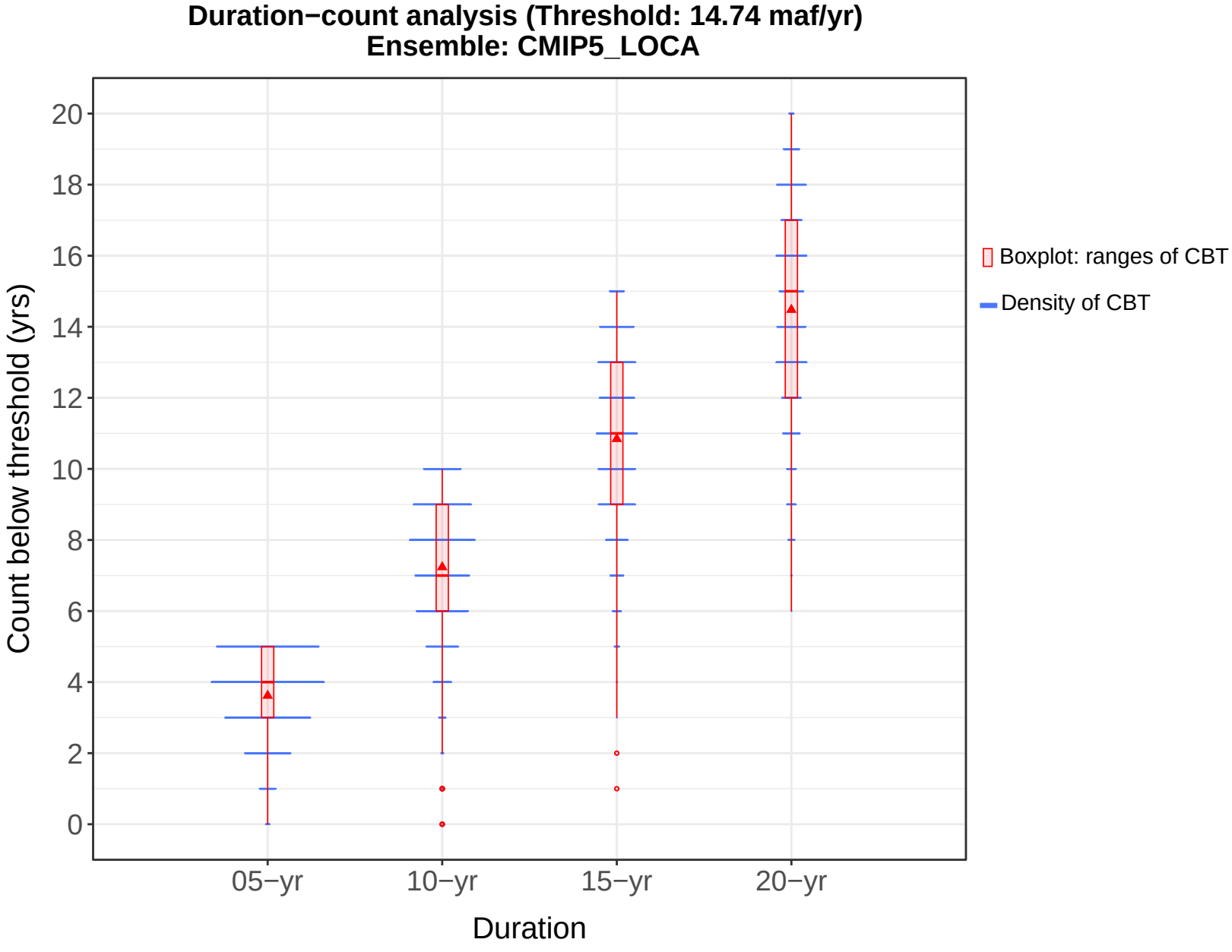

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: DroughtYrRes_2000_2020
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

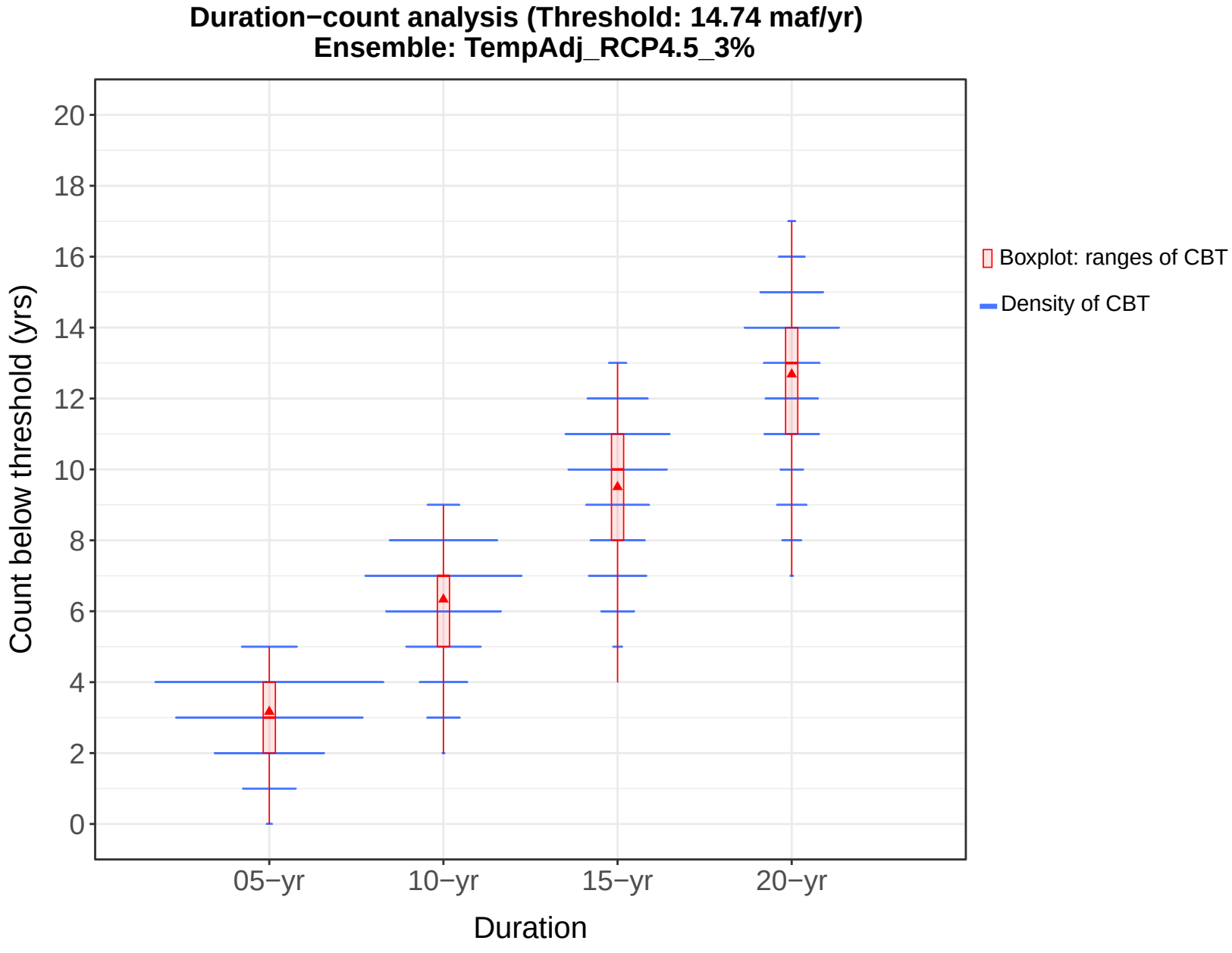

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: DroughtYrRes_1953_1977
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

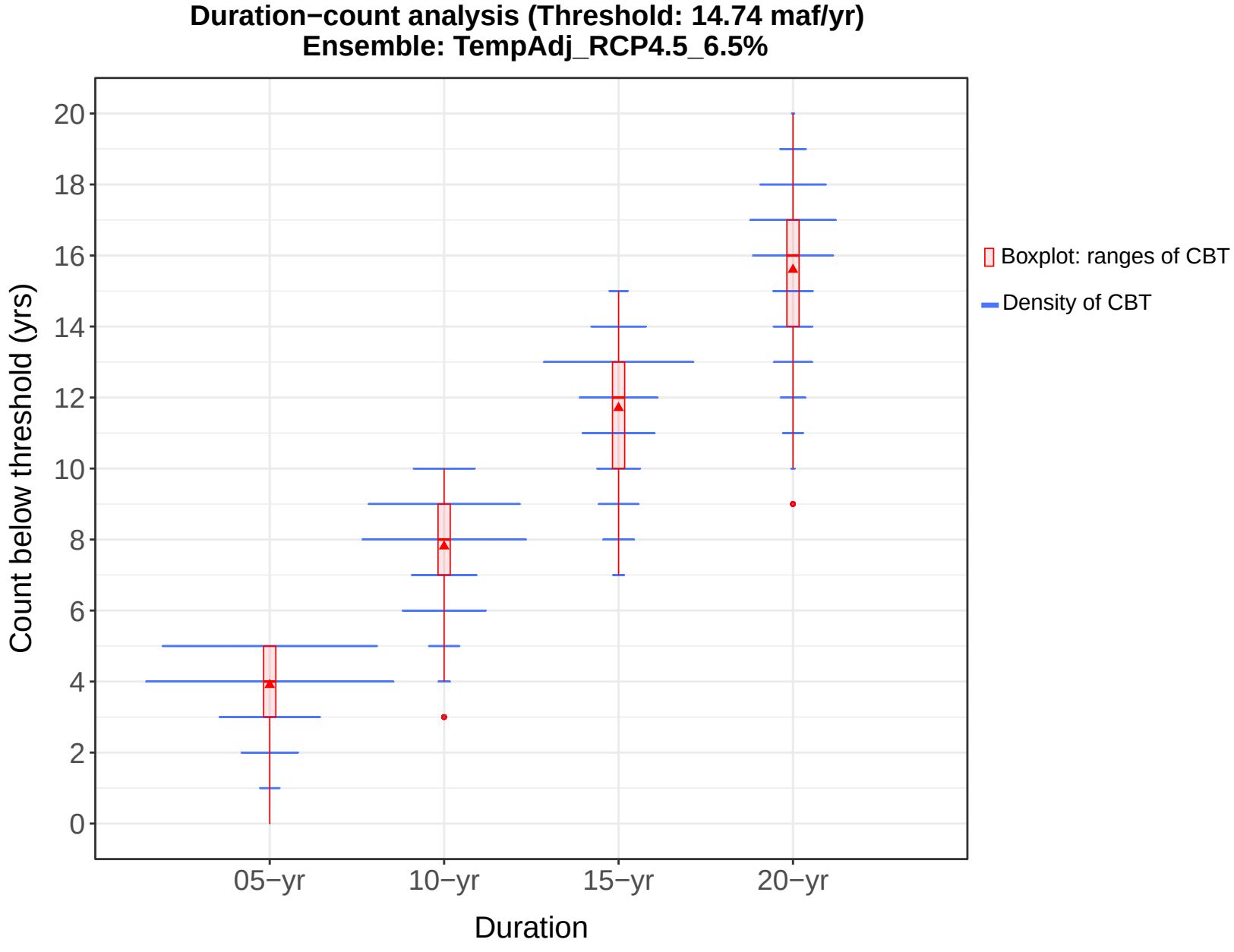

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: DroughtYrRes_1576_1600
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

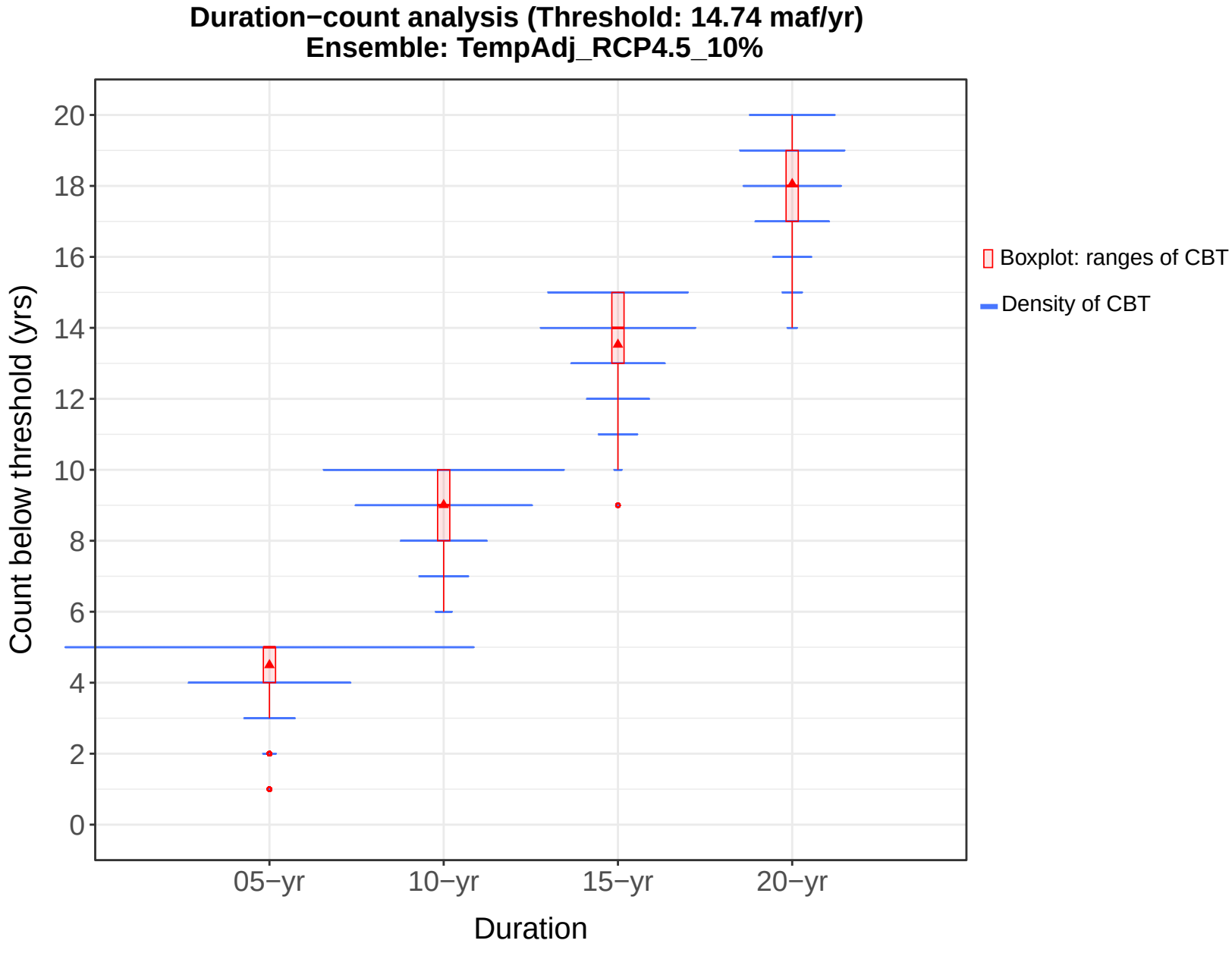

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: CMIP3_BCSD
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

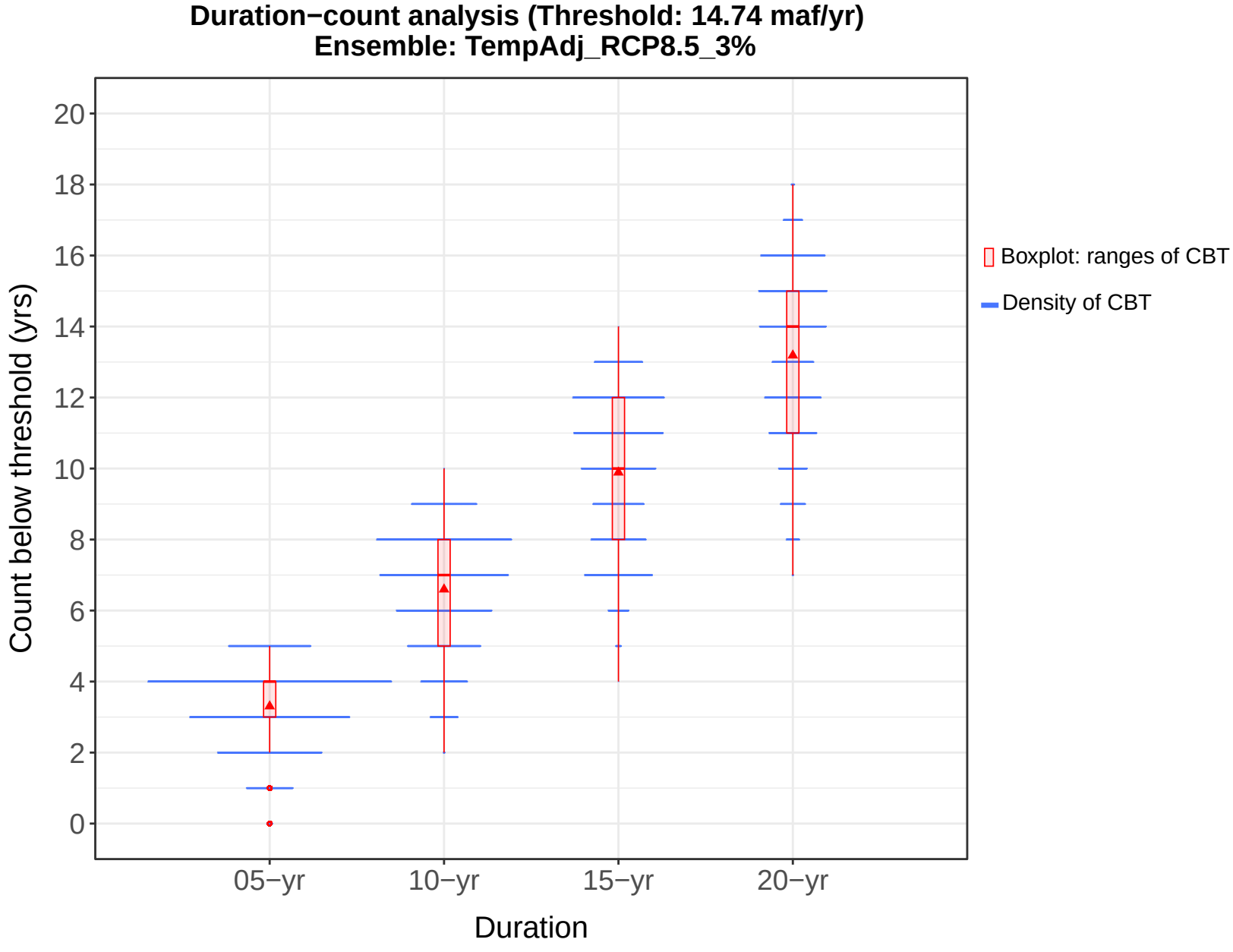

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: CMIP5_BCSD
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

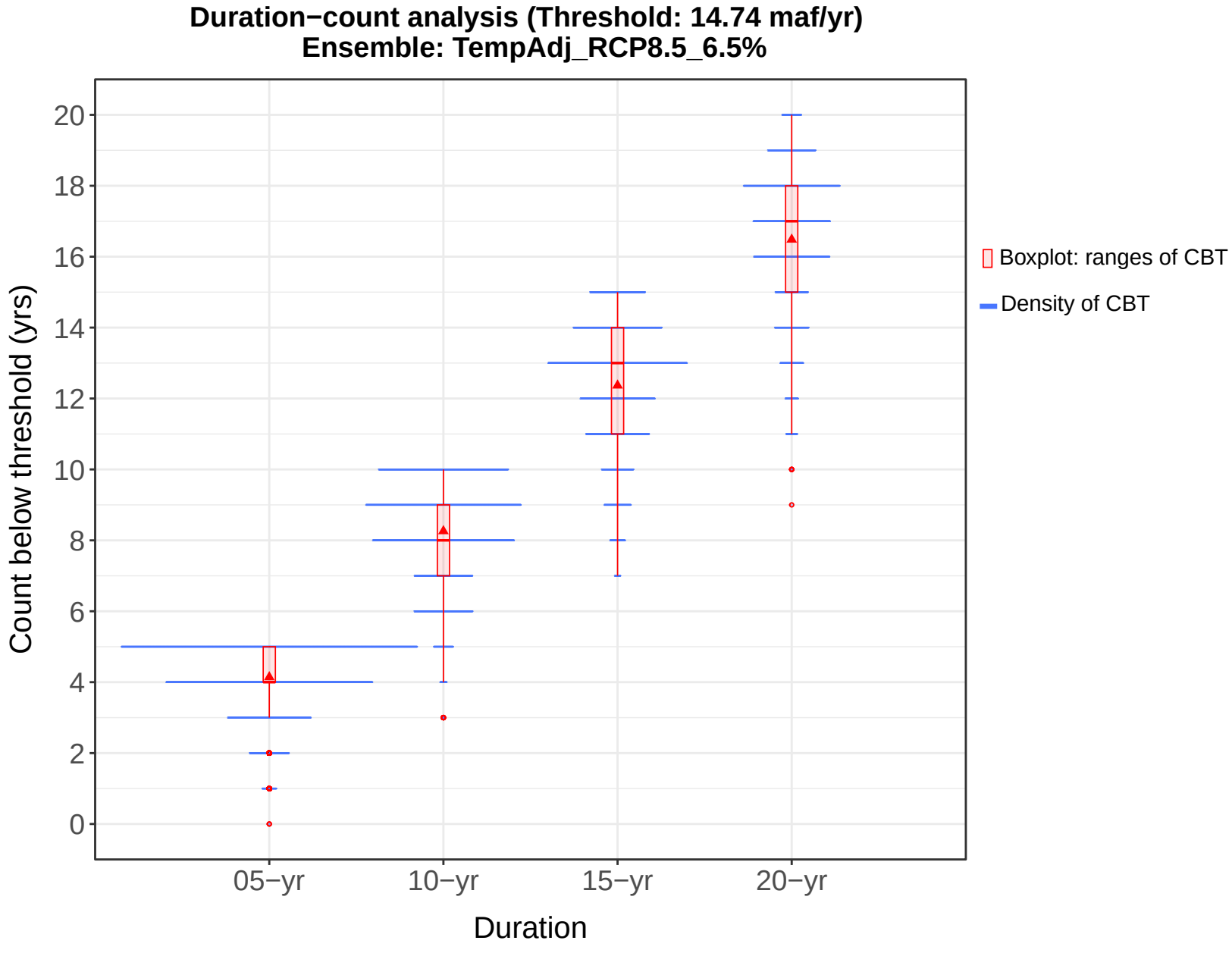

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: CMIP5_LOCA
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

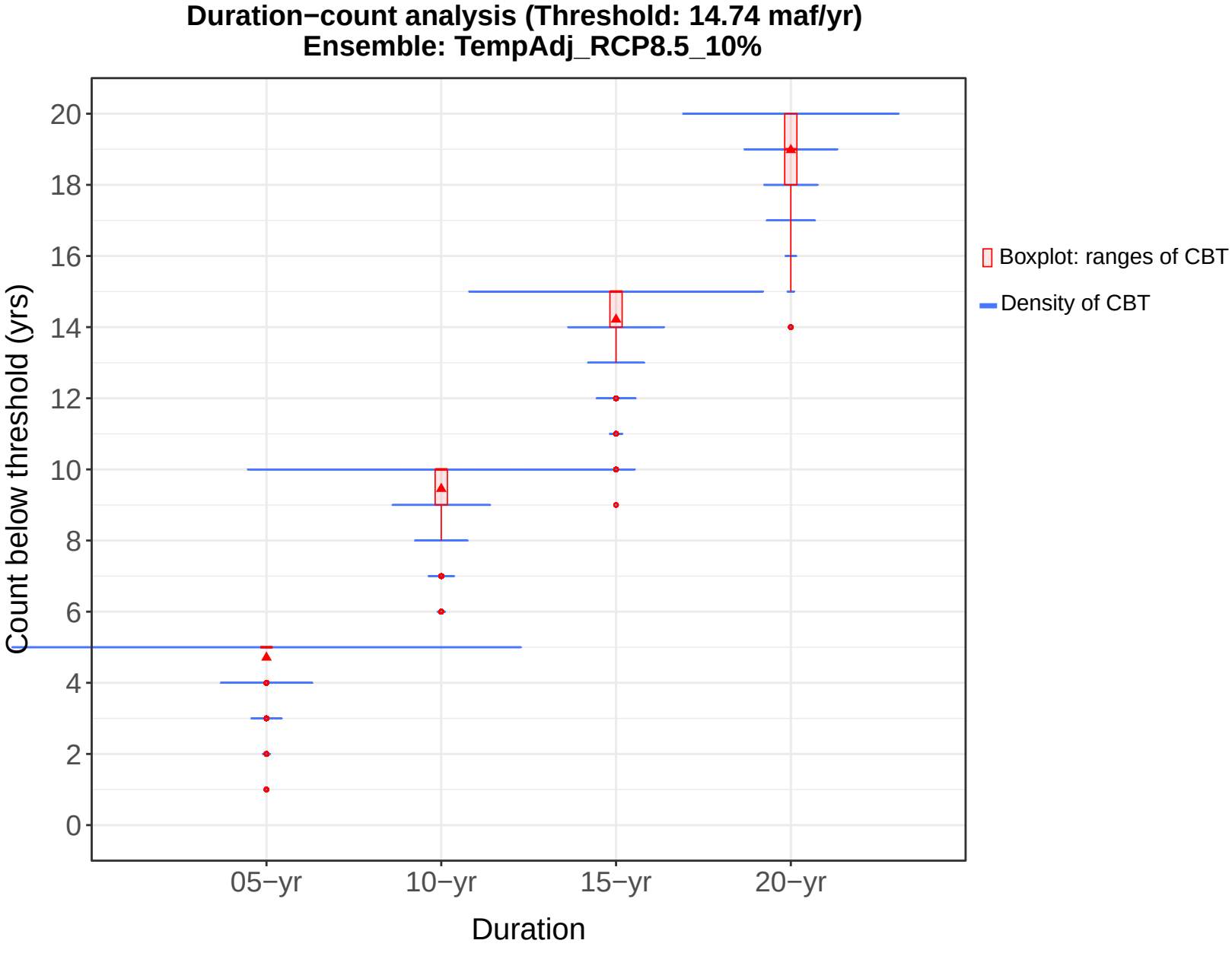

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP4.5_3%
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

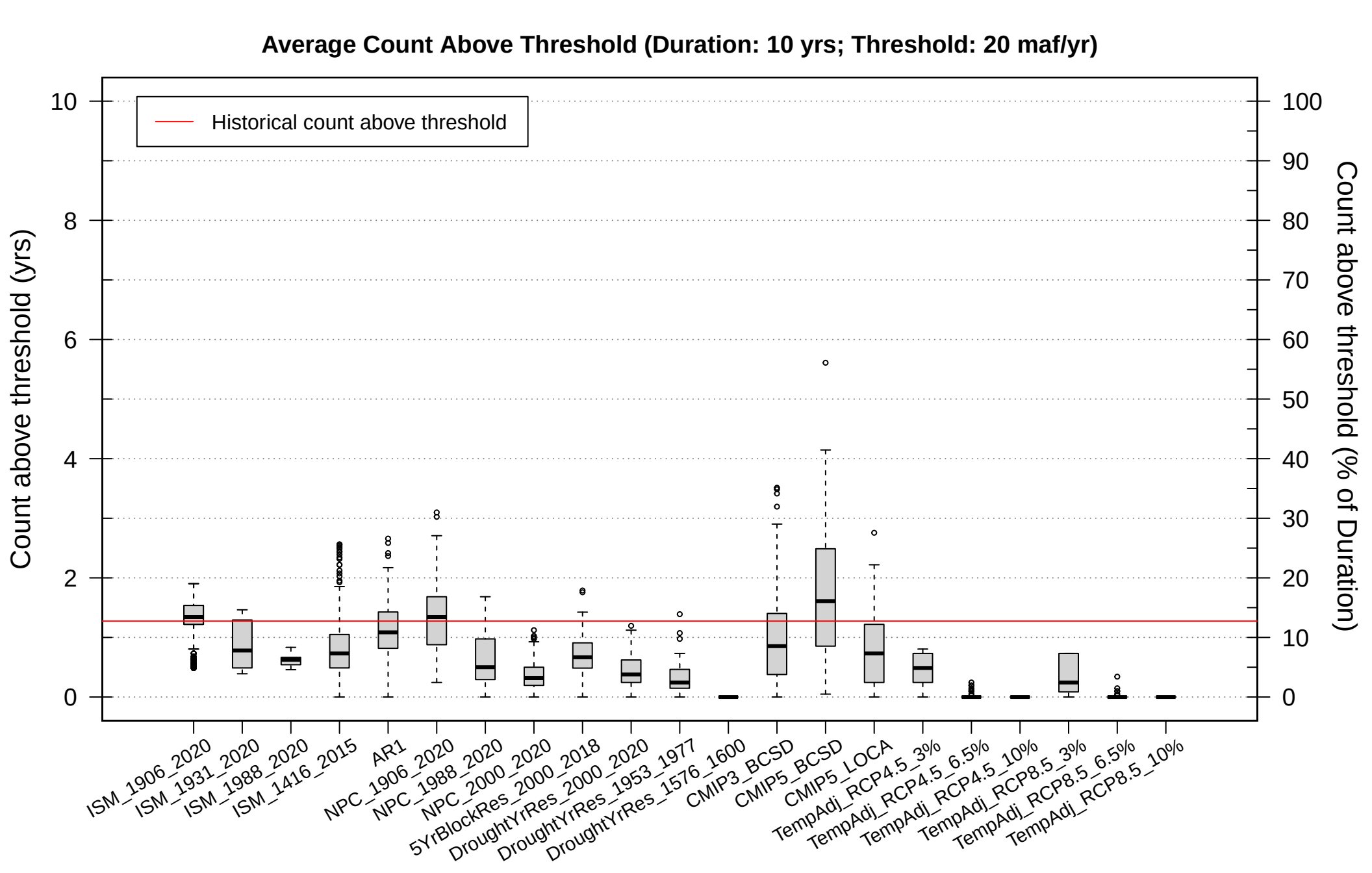

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP4.5_6.5%
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

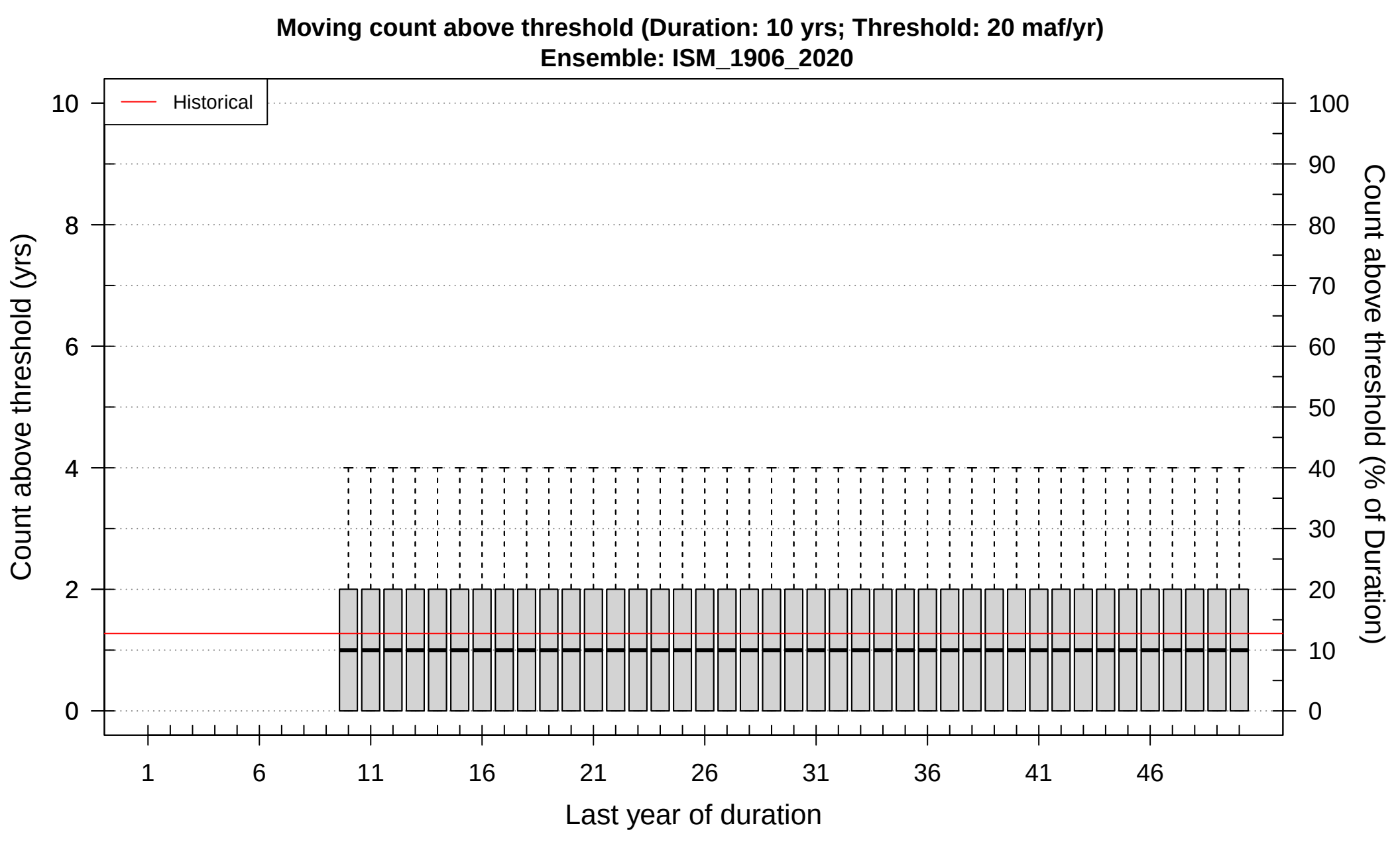

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP4.5_10%
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

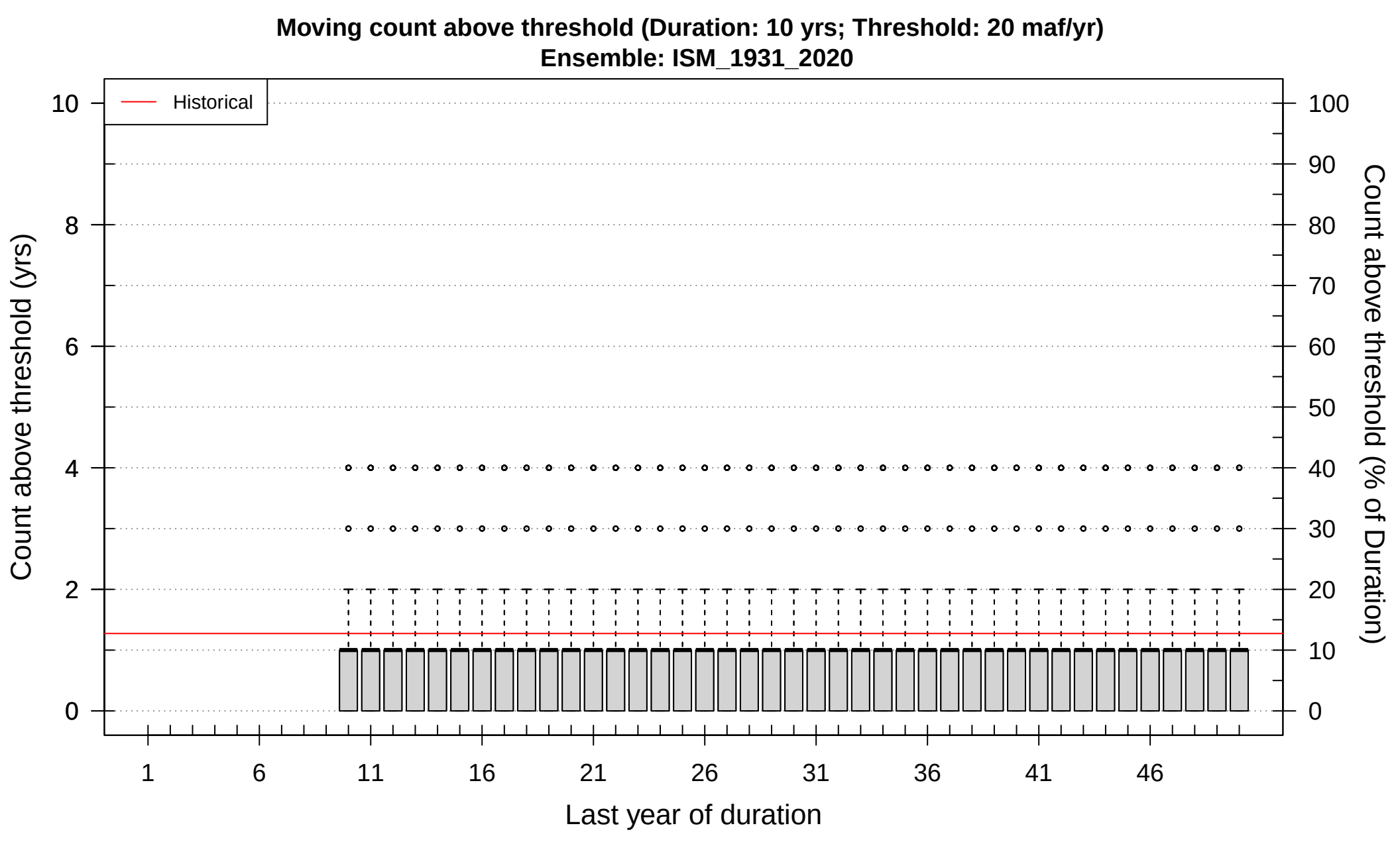

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP8.5_3%
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

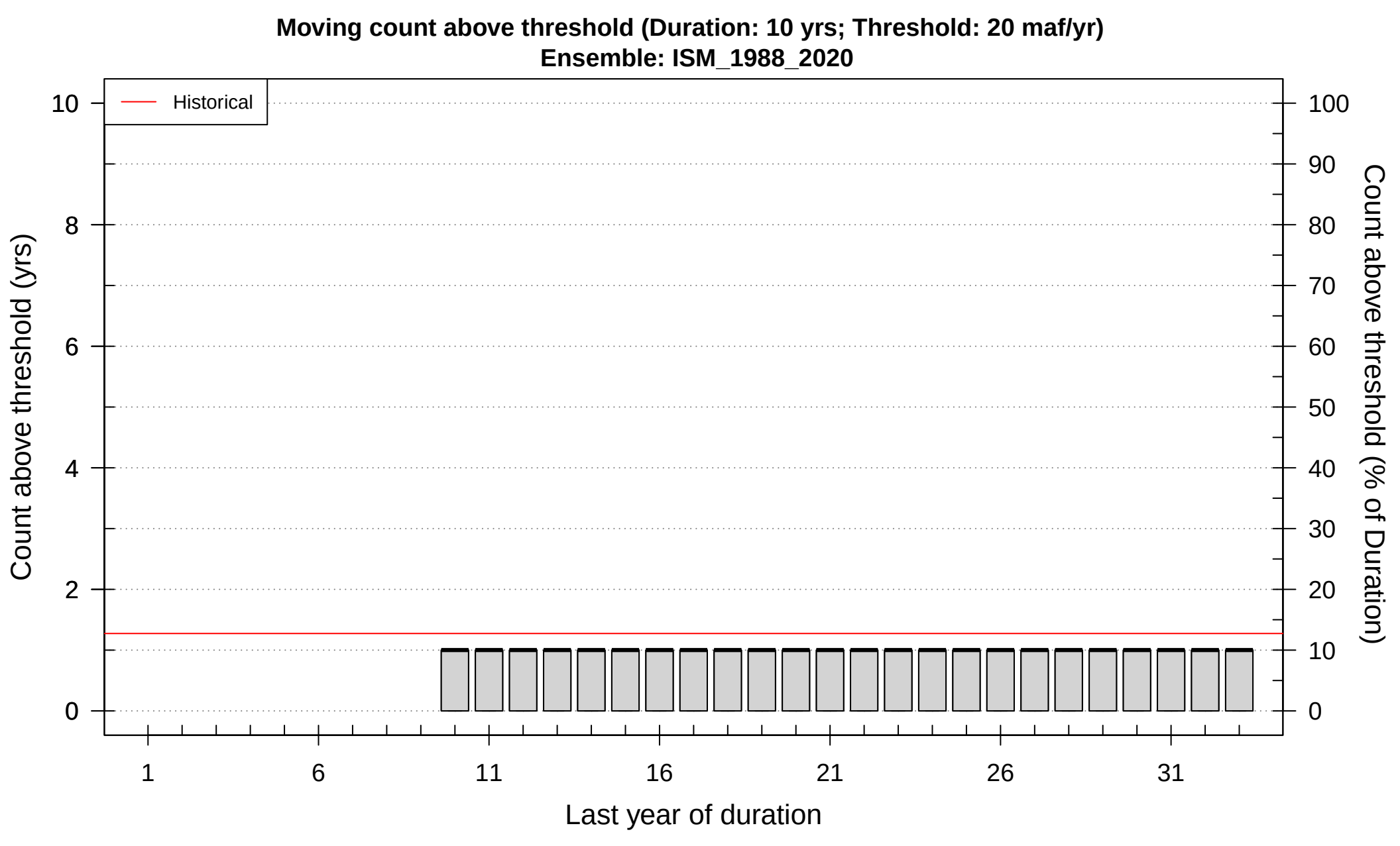

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP8.5_6.5%
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

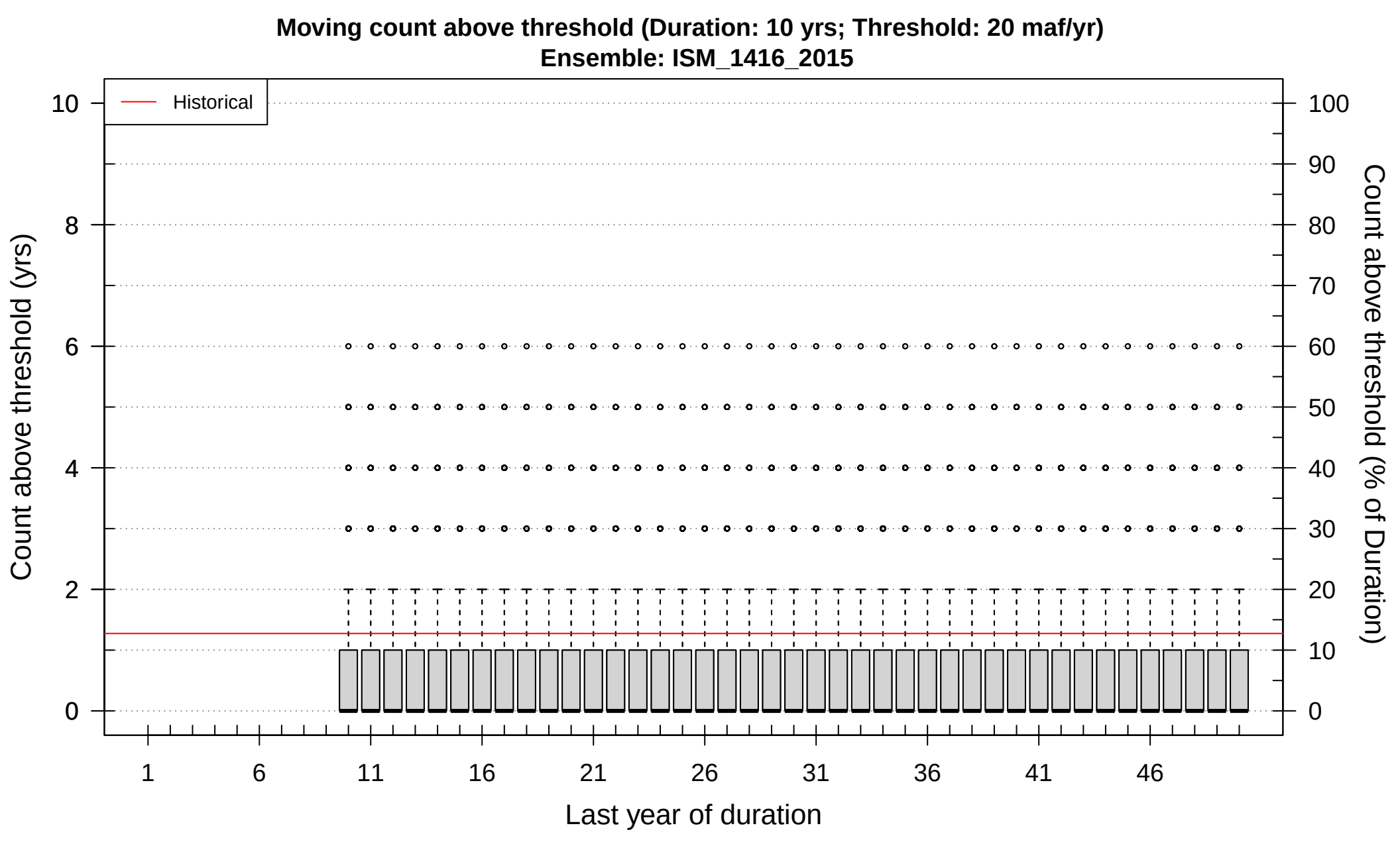

Duration−count analysis (Threshold: 14.74 maf/yr)
Ensemble: TempAdj_RCP8.5_10%
Count below threshold (yrs)
0
2
4
6
8
10
12
14
16
18
20
05−yr
10−yr
15−yr
20−yr
Duration
Boxplot: ranges of CBT
Density of CBT

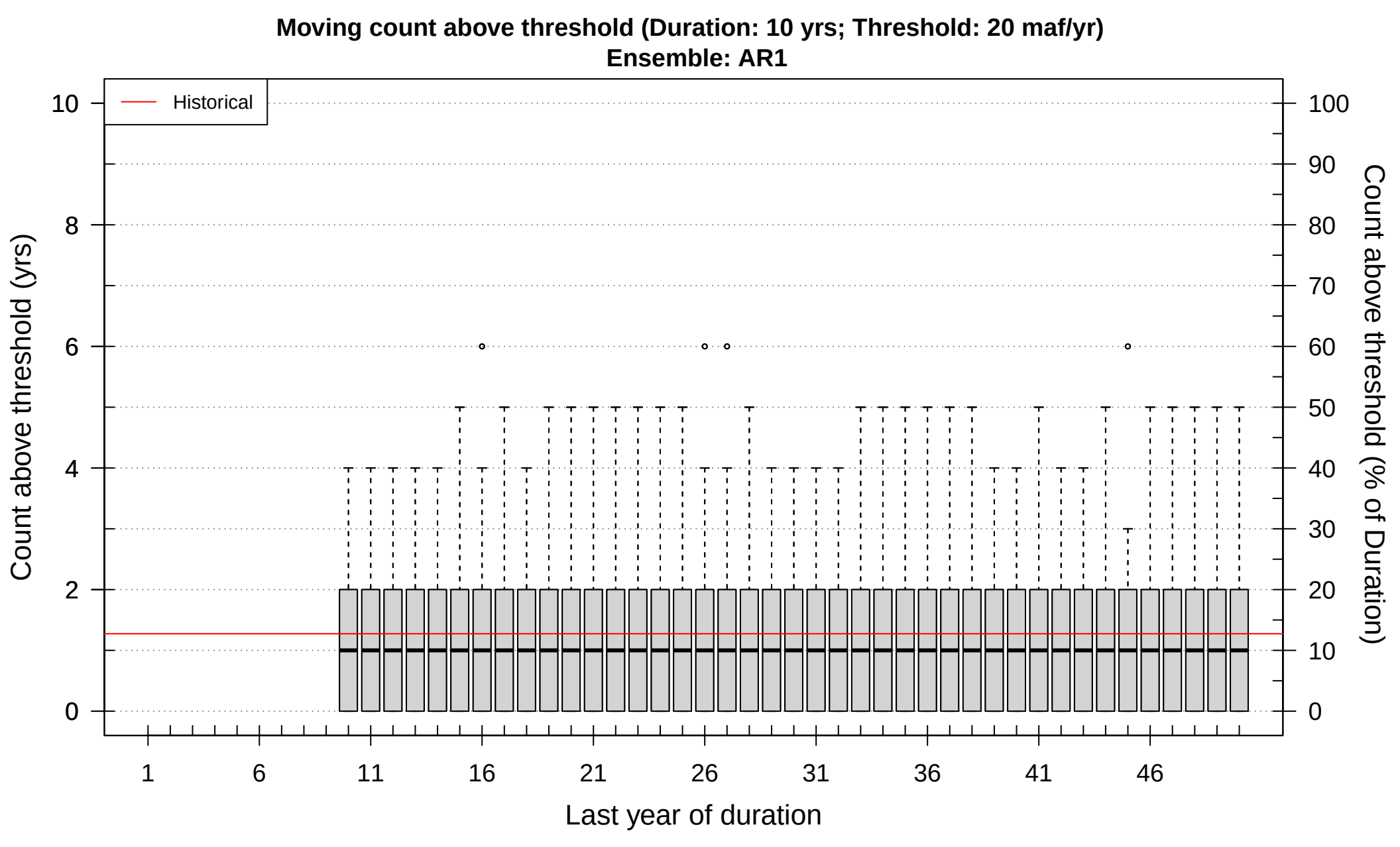

Average Count Above Threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Historical count above threshold
Count above threshold (yrs)
Count above threshold (% of Duration)
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

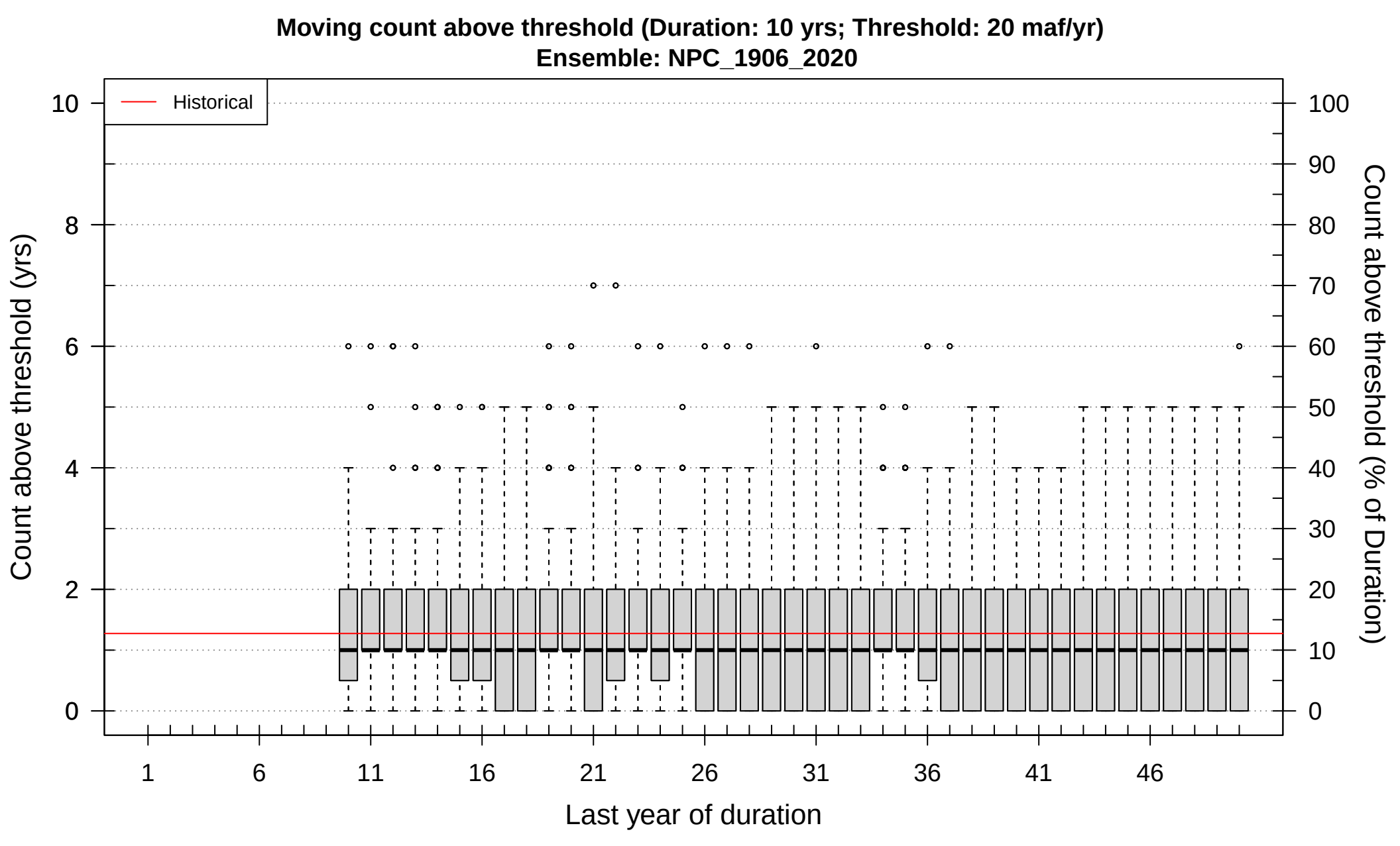

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: ISM_1906_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

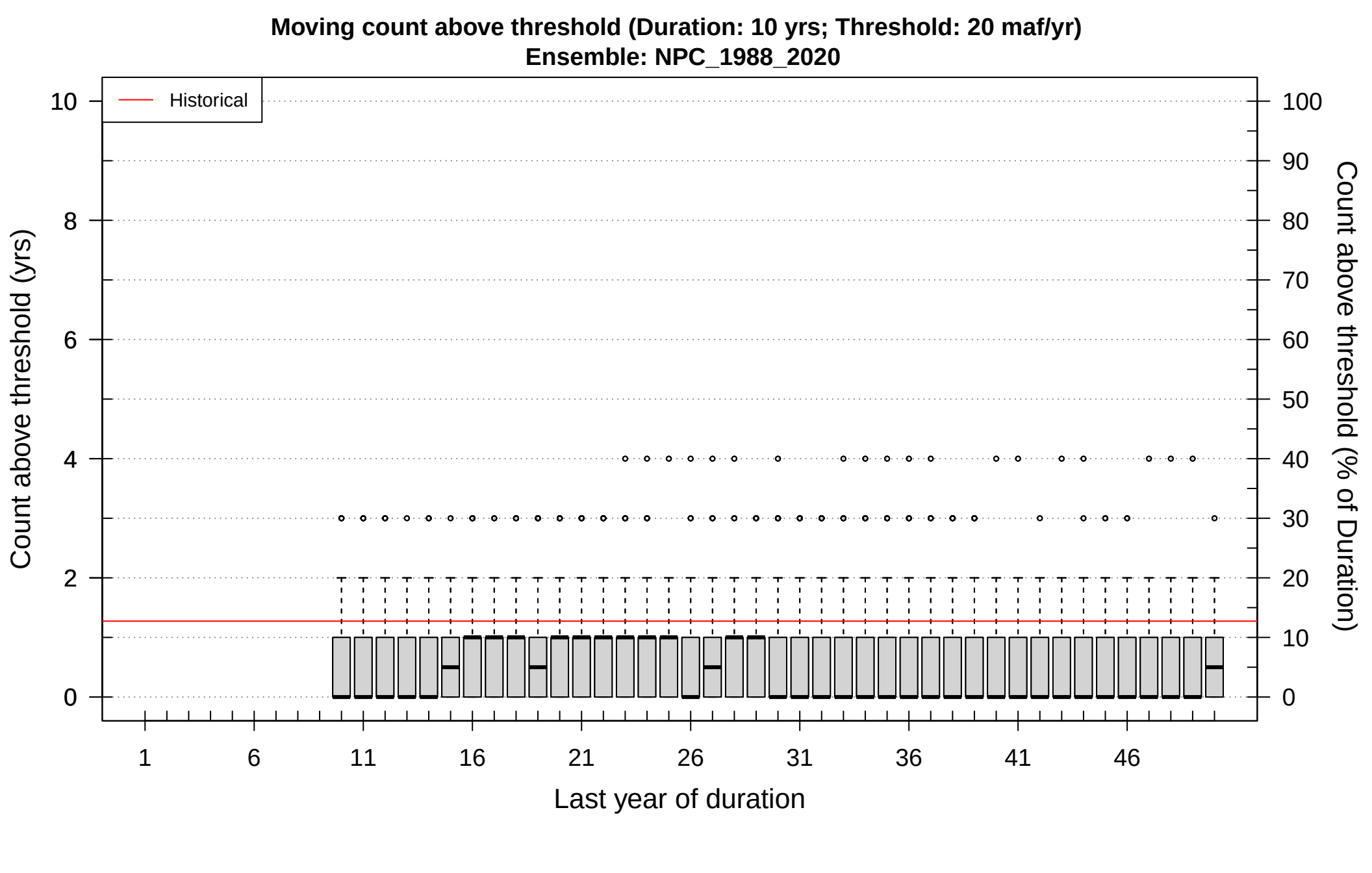

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: ISM_1931_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

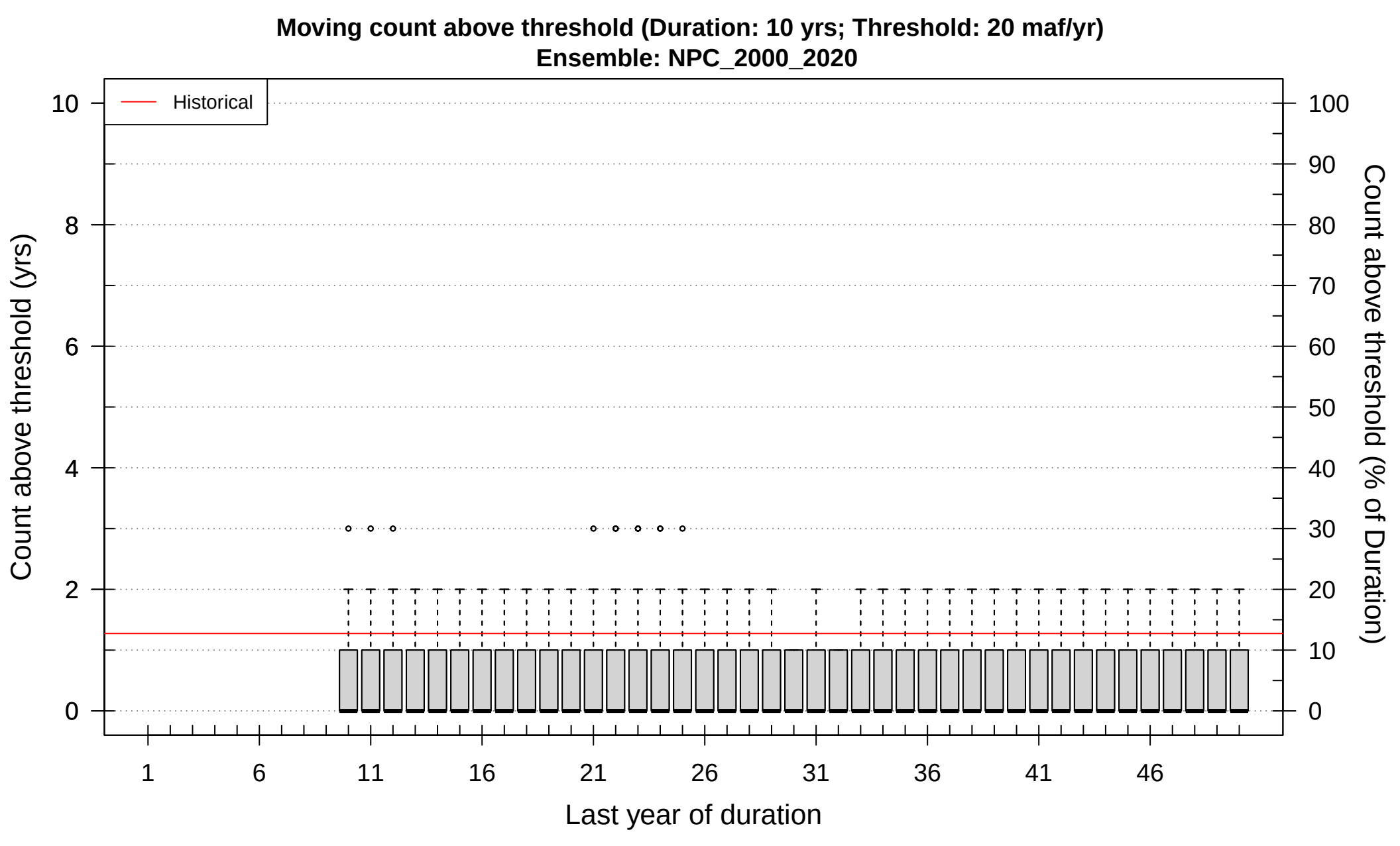

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: ISM_1988_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31

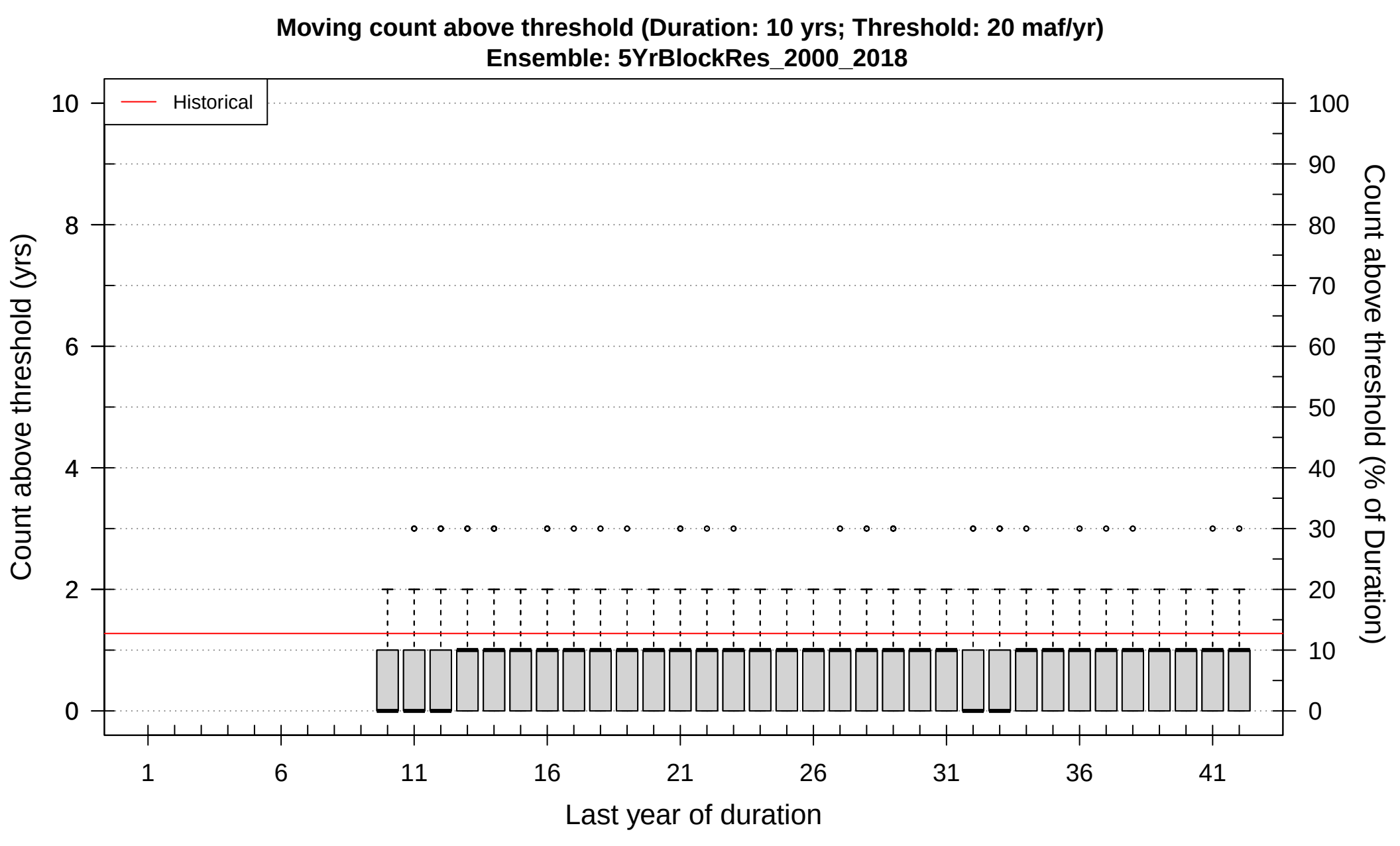

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: ISM_1416_2015
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

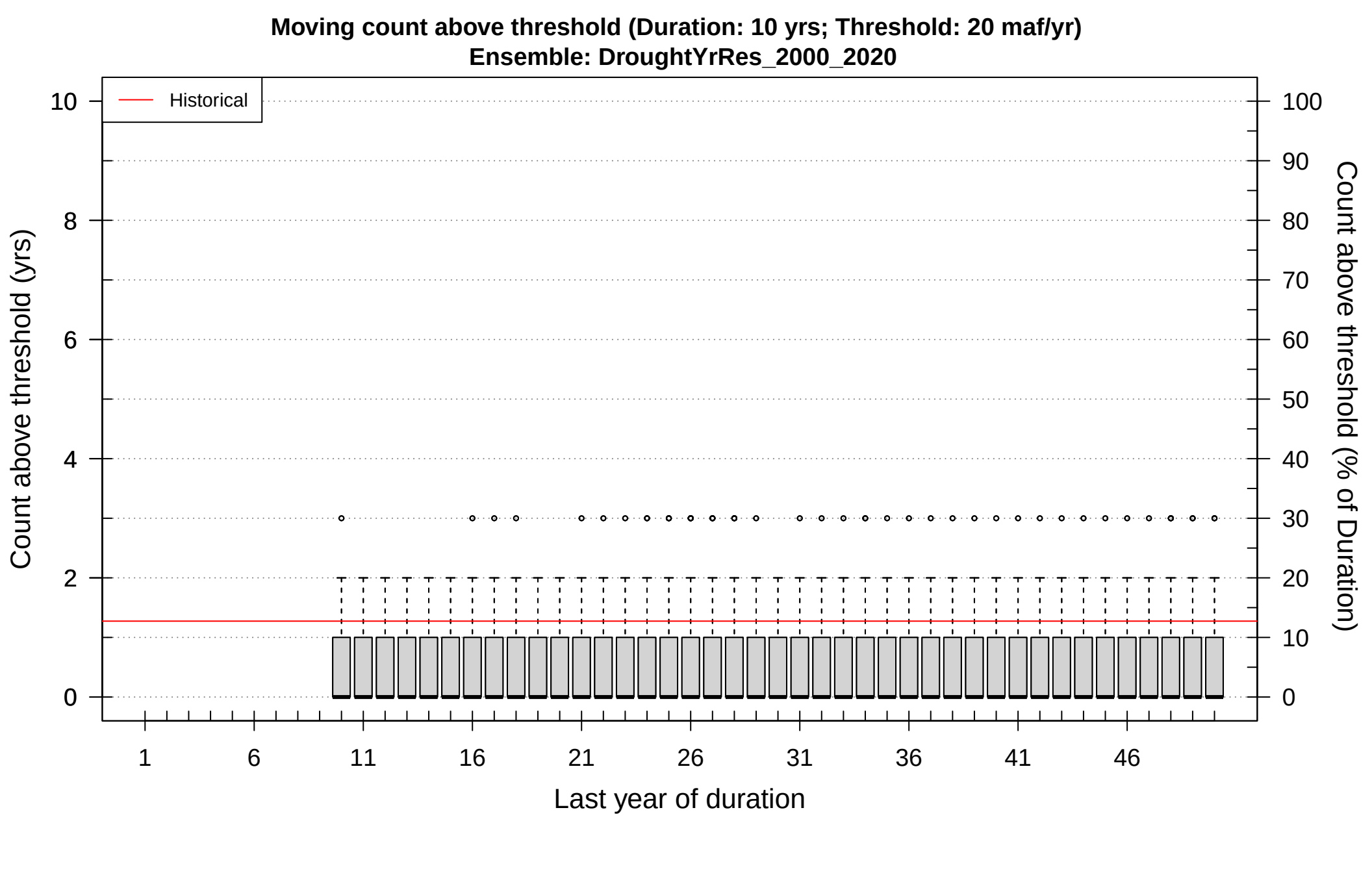

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: AR1
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

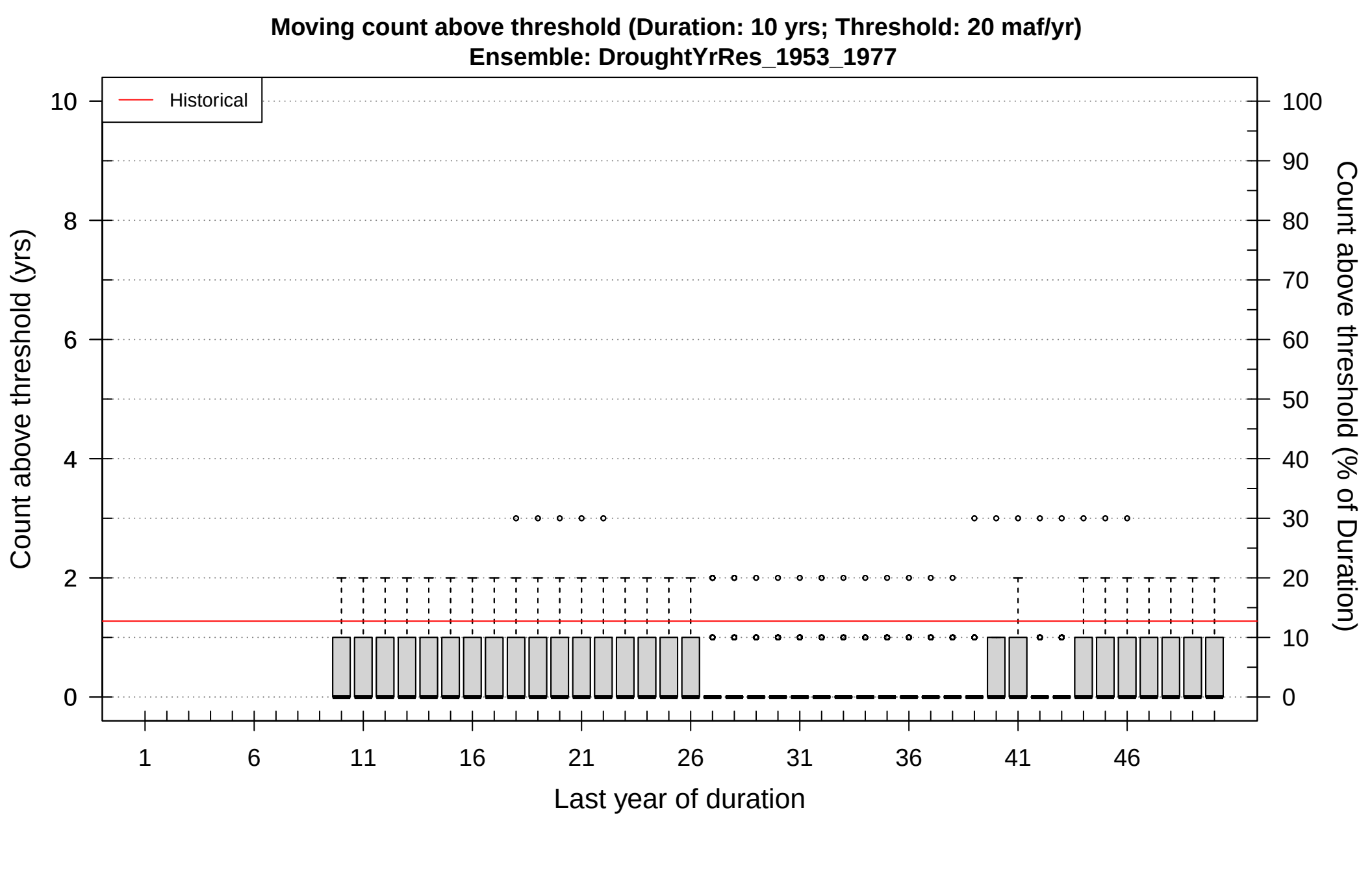

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: NPC_1906_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

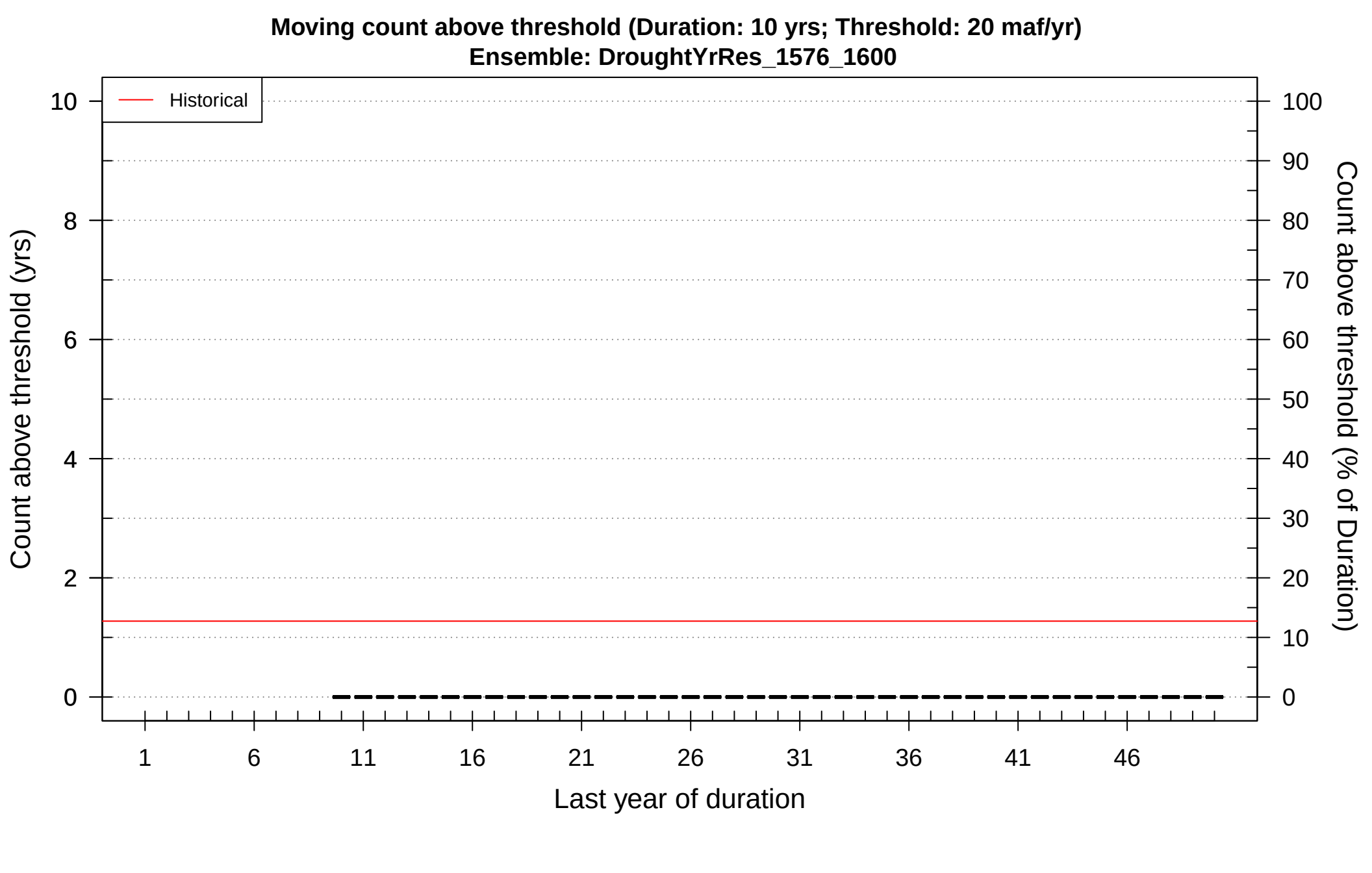

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: NPC_1988_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

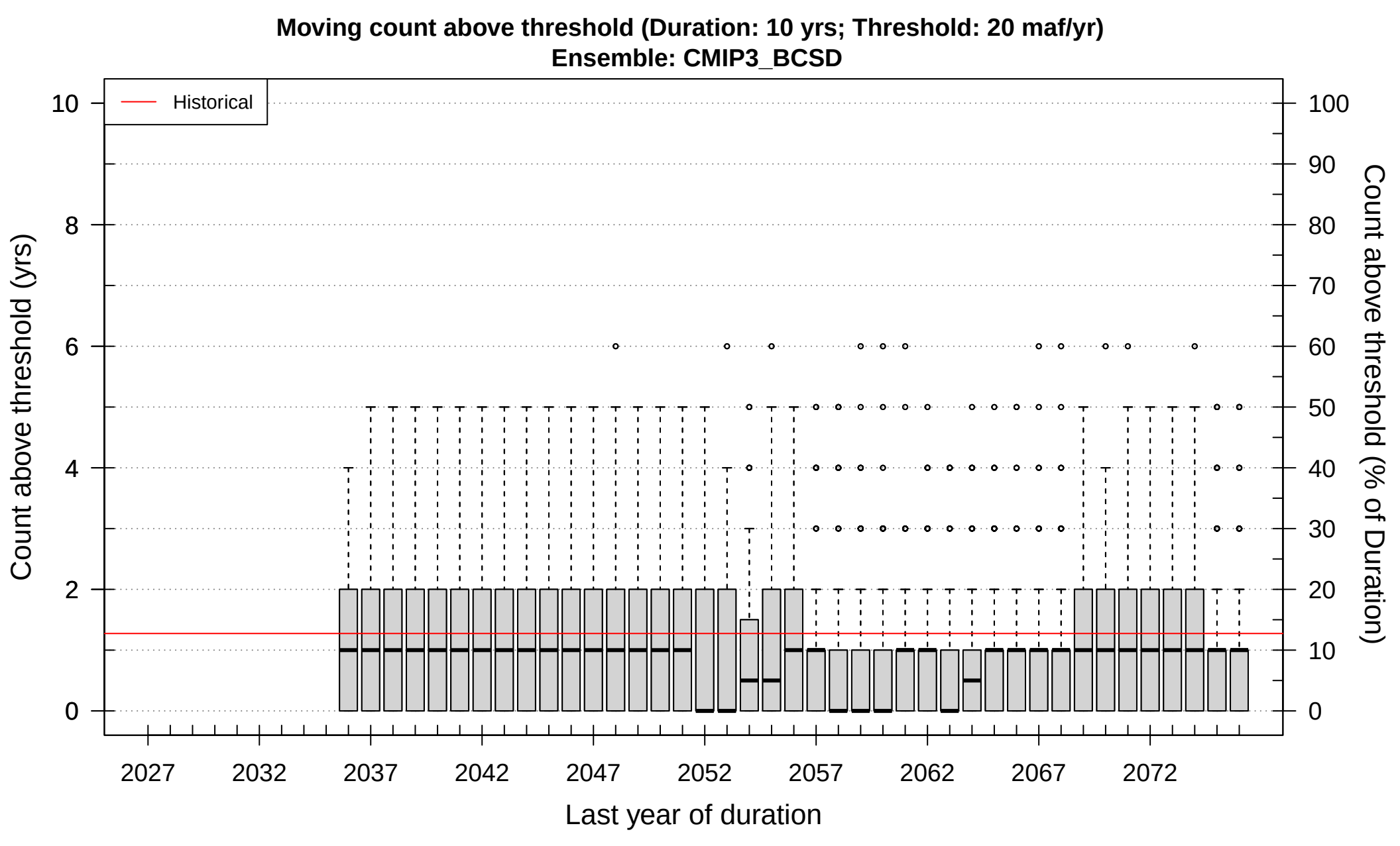

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: NPC_2000_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

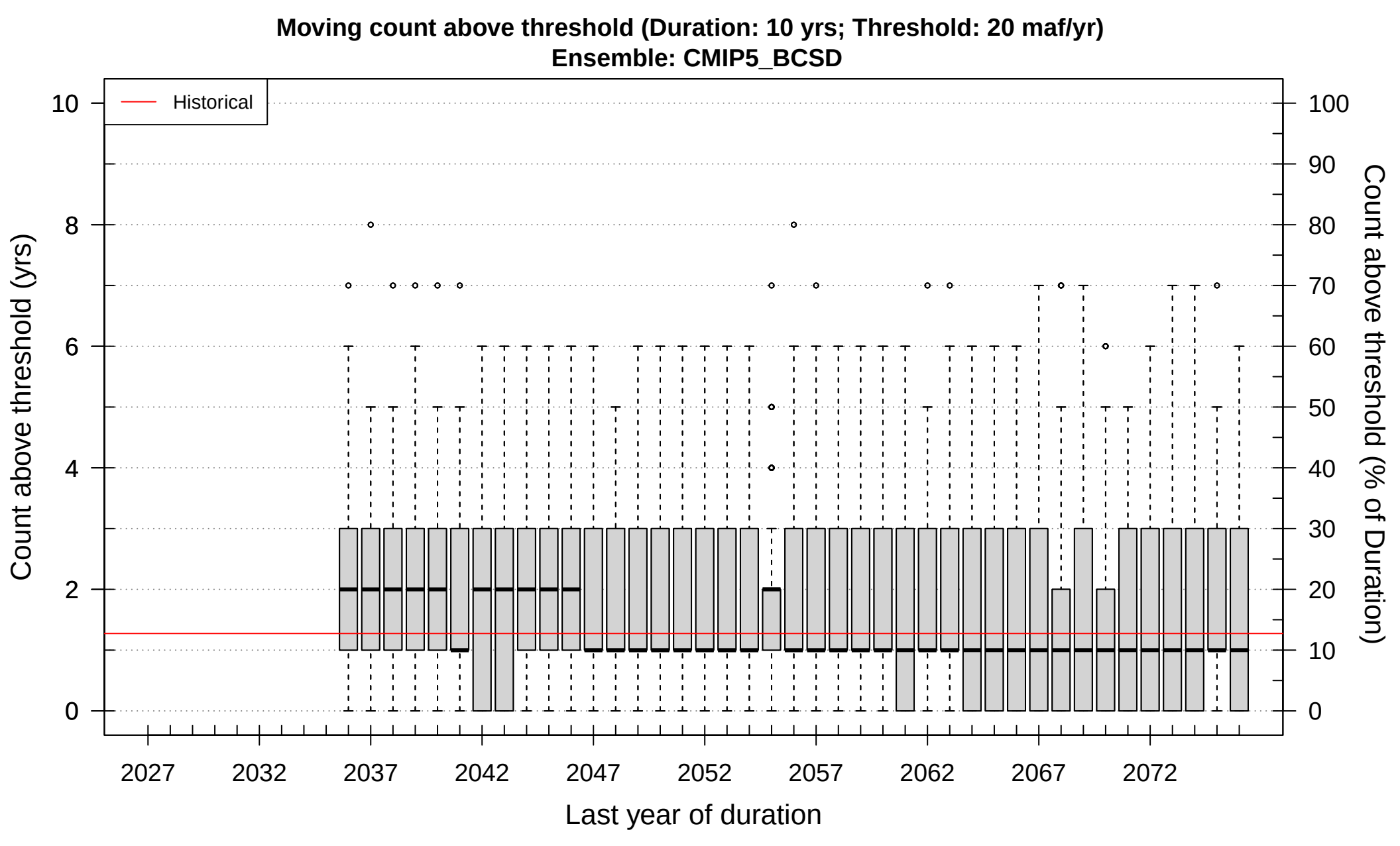

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: 5YrBlockRes_2000_2018
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41

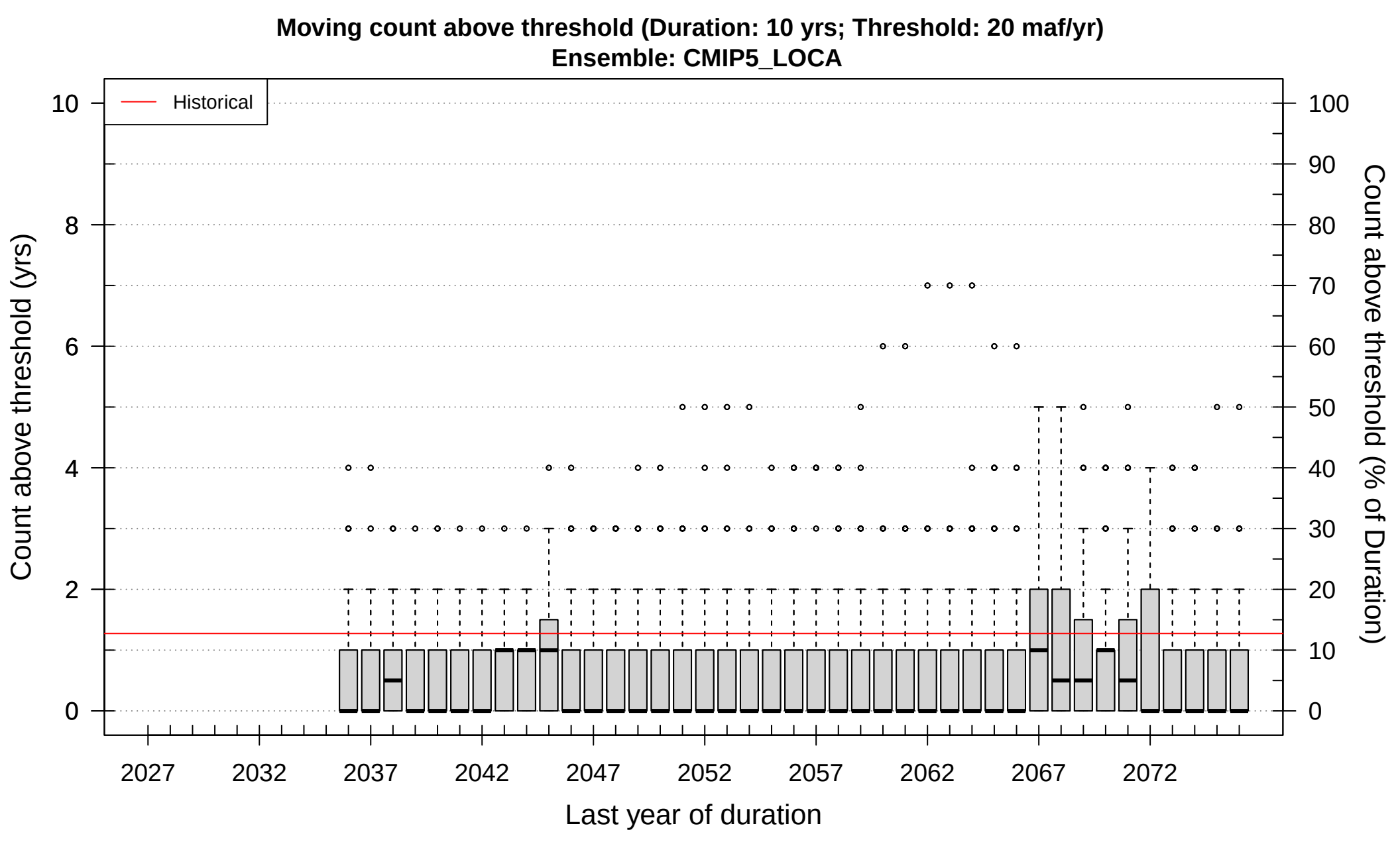

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: DroughtYrRes_2000_2020
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

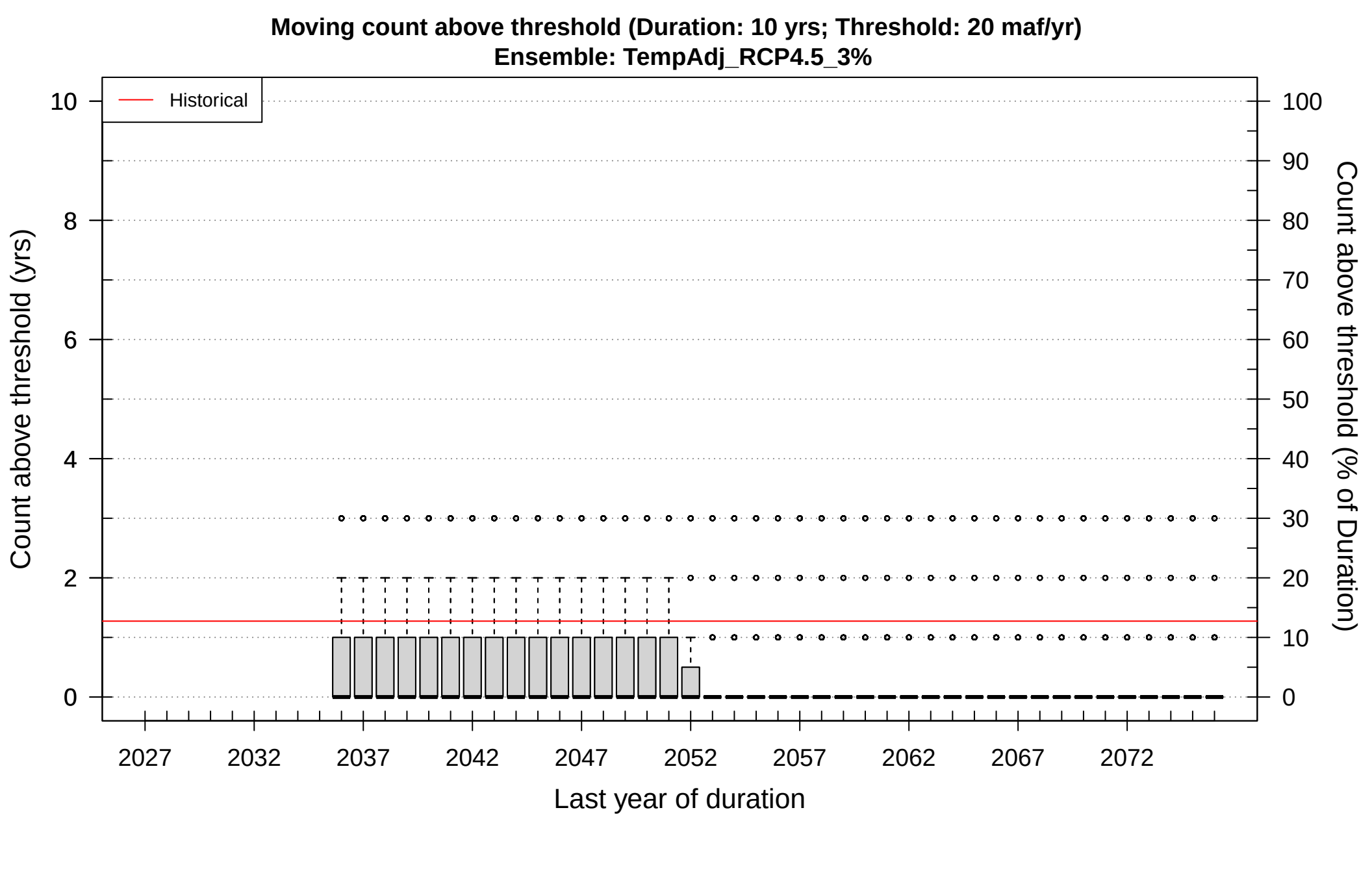

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: DroughtYrRes_1953_1977
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

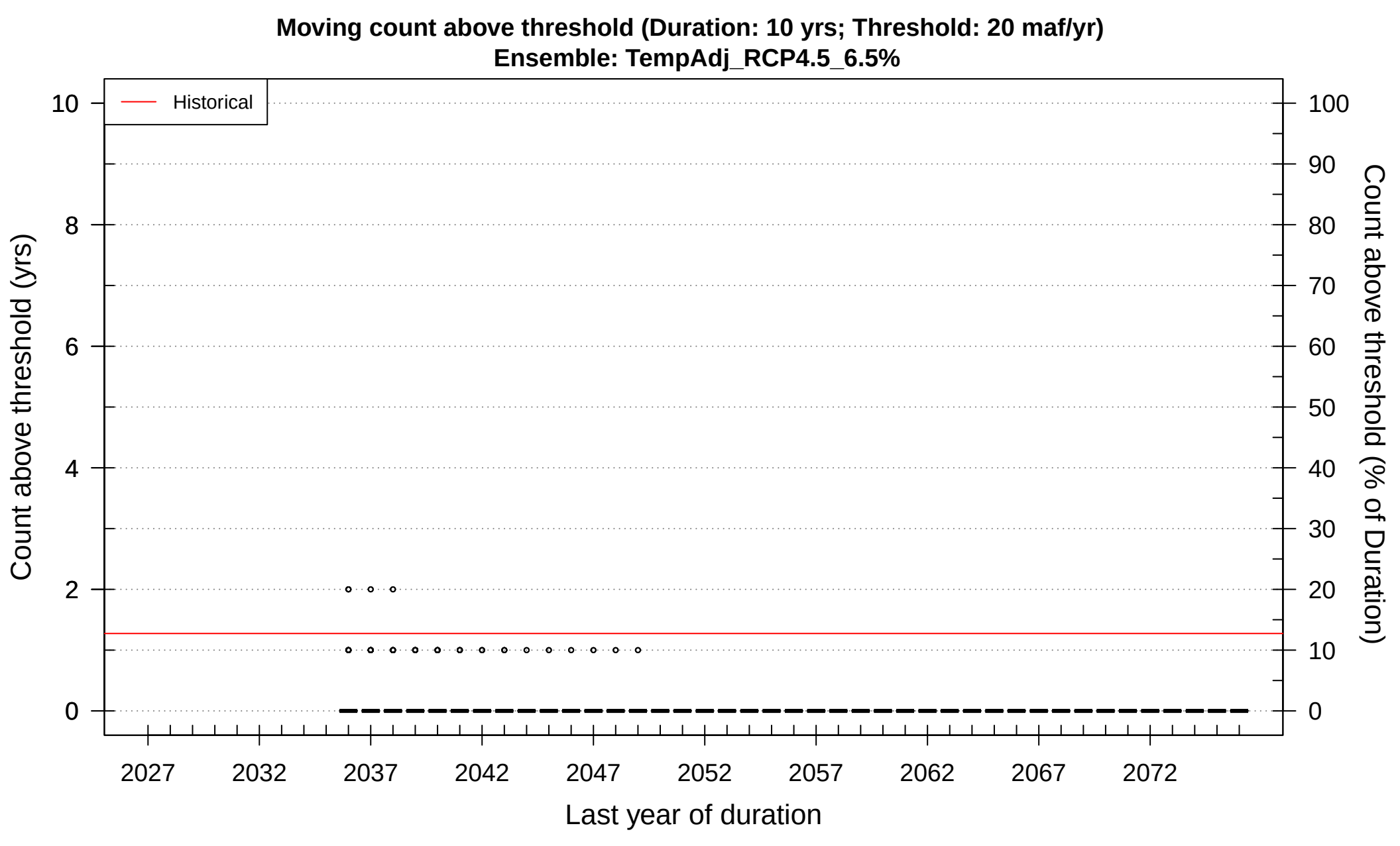

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: DroughtYrRes_1576_1600
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
1
6
11
16
21
26
31
36
41
46

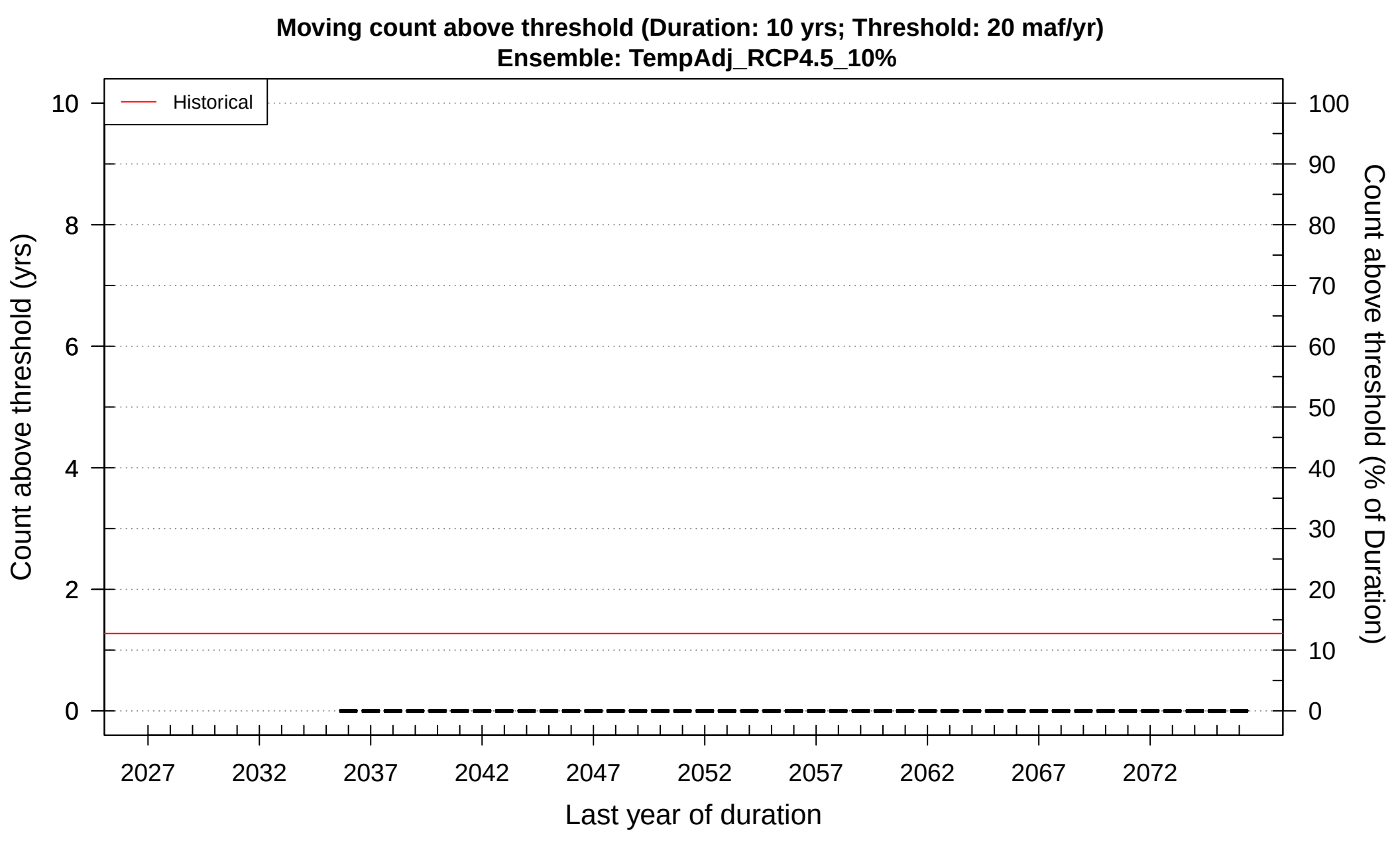

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: CMIP3_BCSD
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

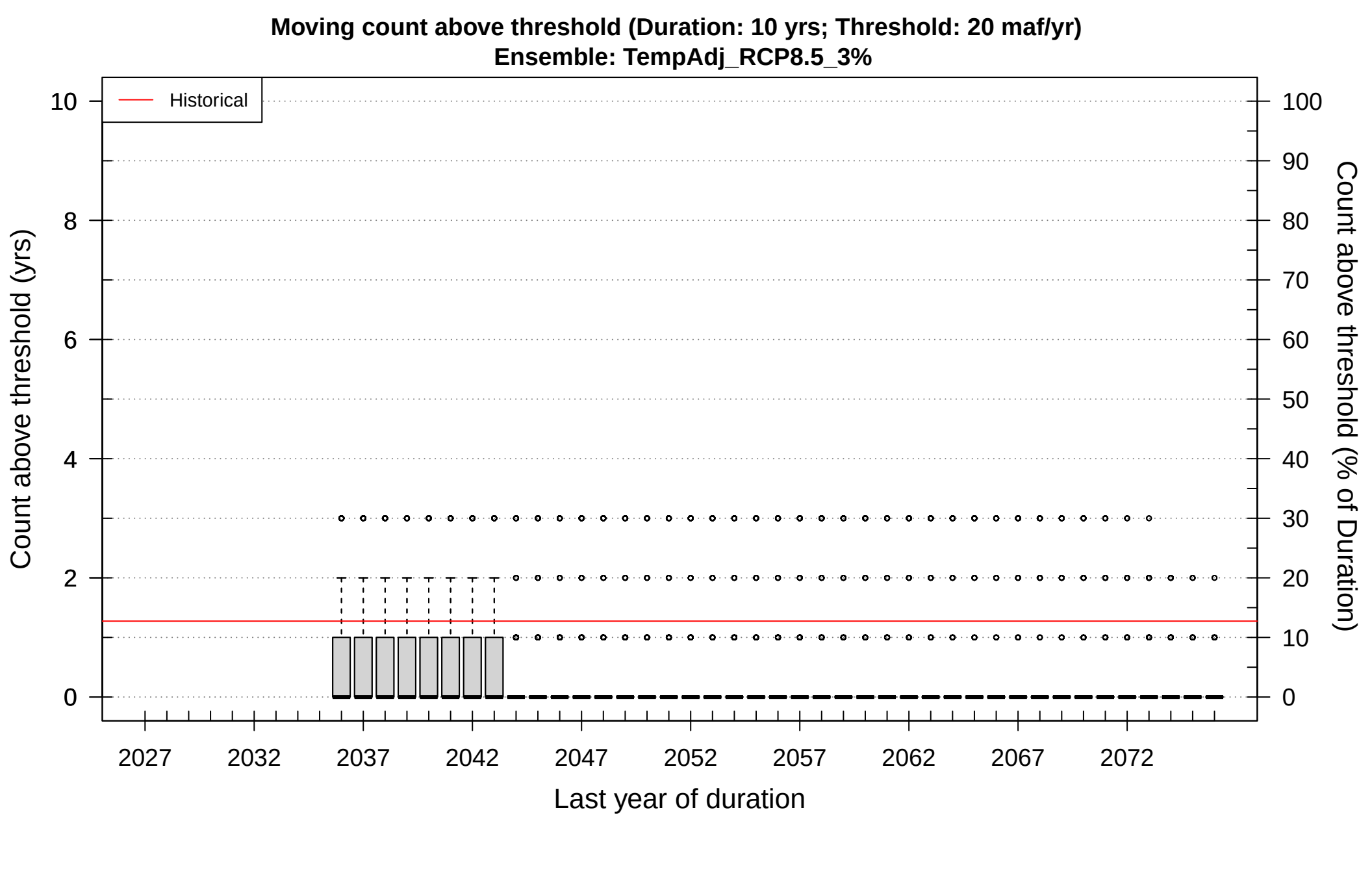

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: CMIP5_BCSD
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

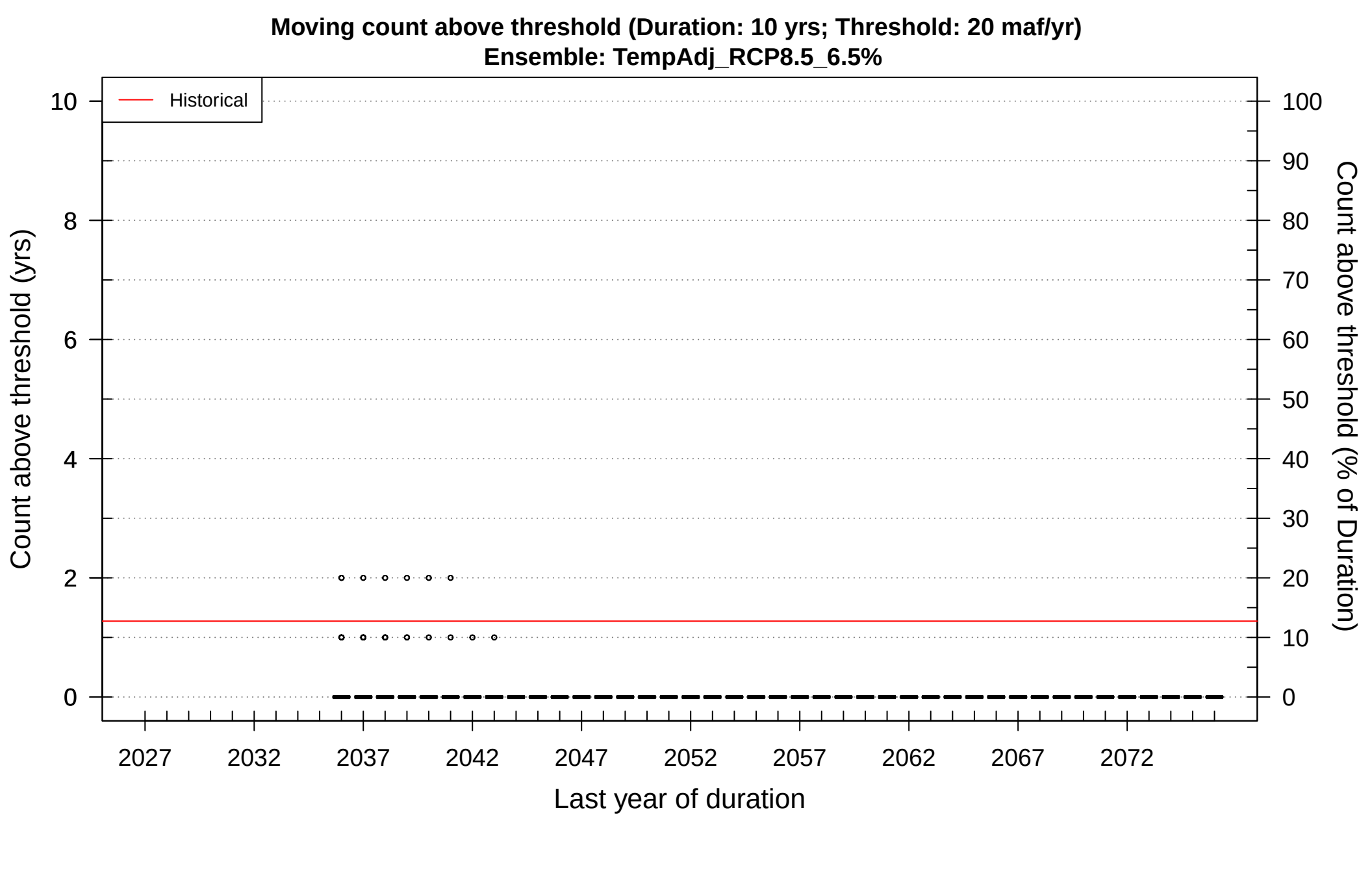

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: CMIP5_LOCA
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

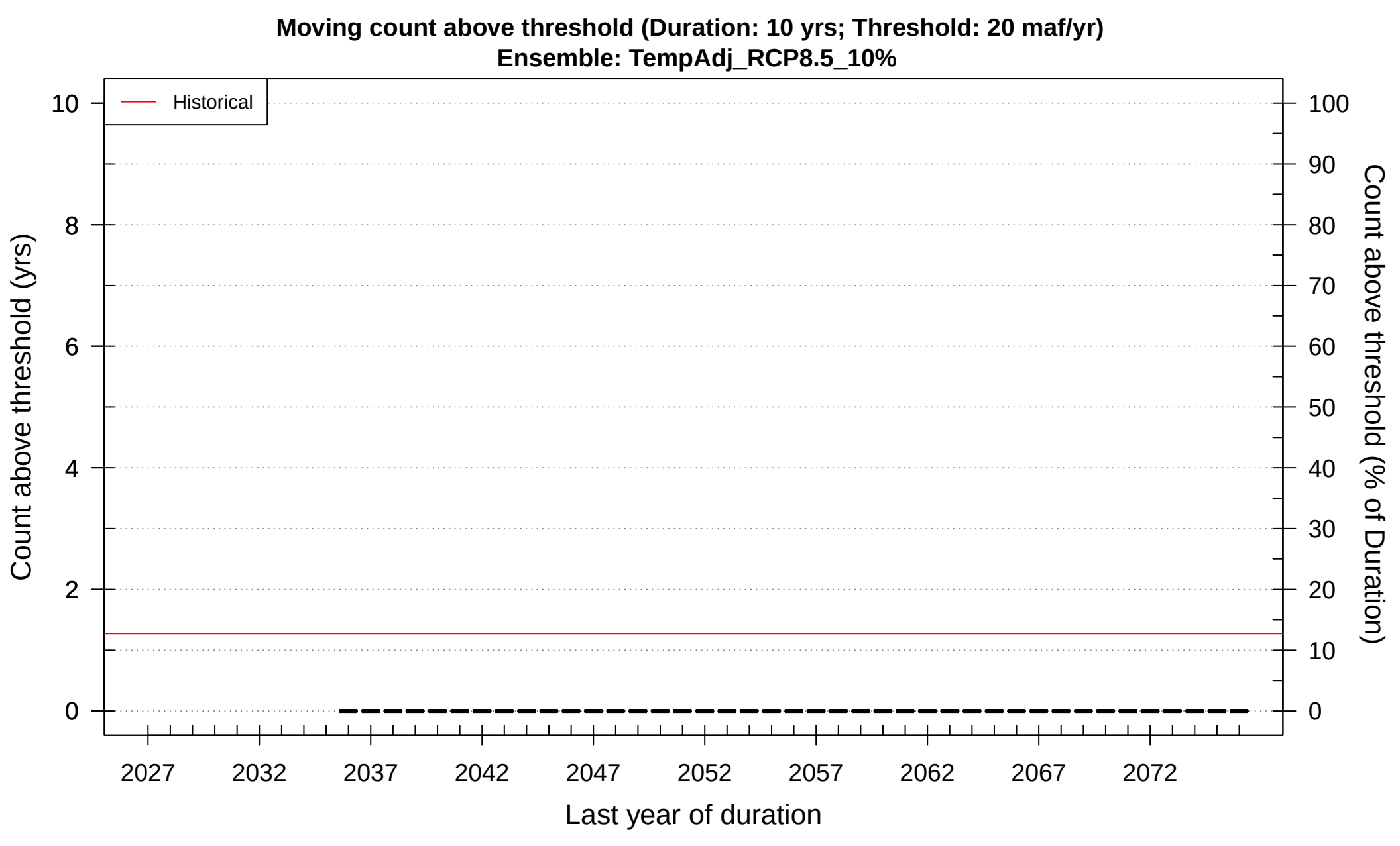

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: TempAdj_RCP4.5_3%
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

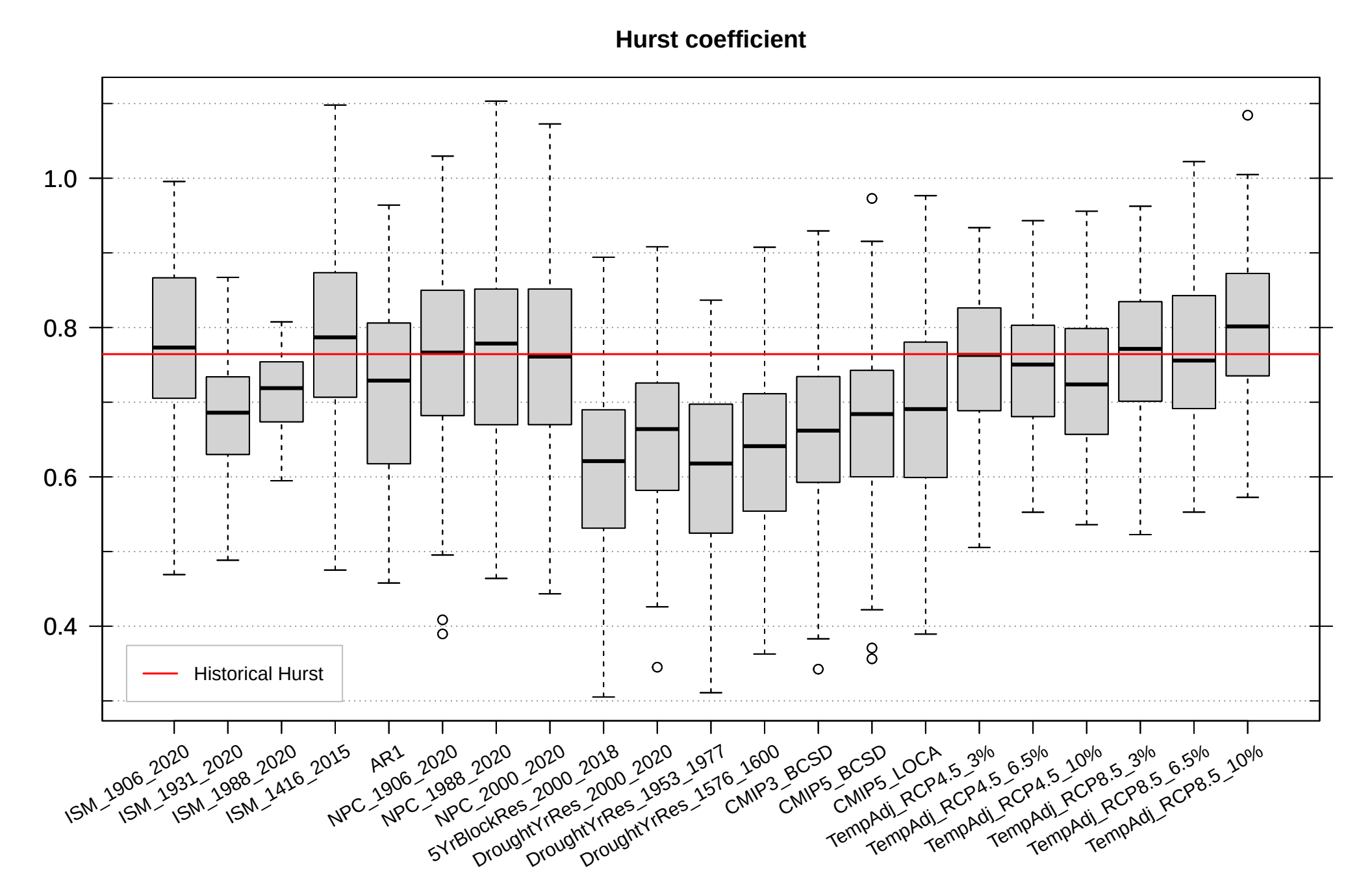

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: TempAdj_RCP4.5_6.5%
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

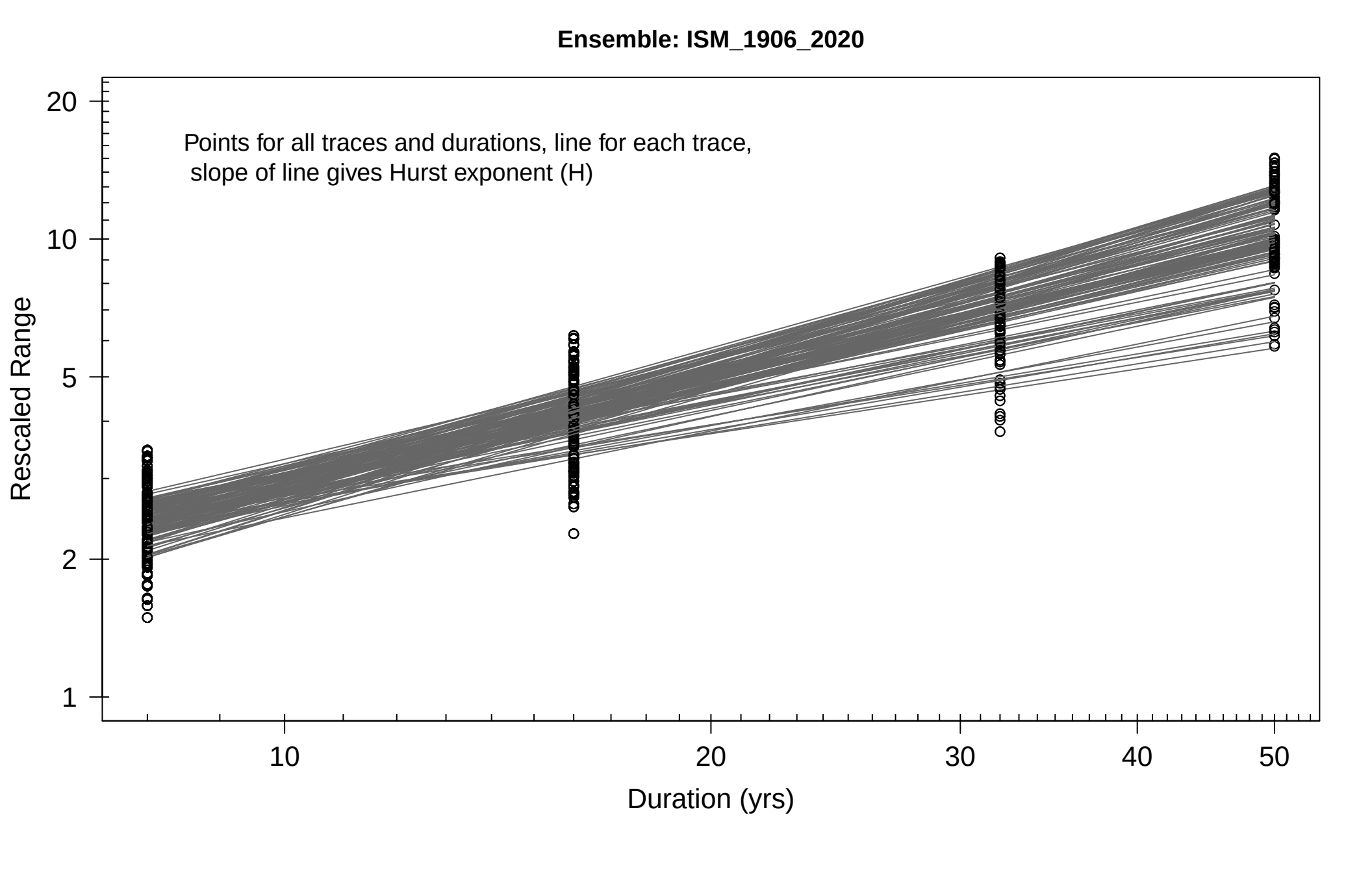

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: TempAdj_RCP4.5_10%
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

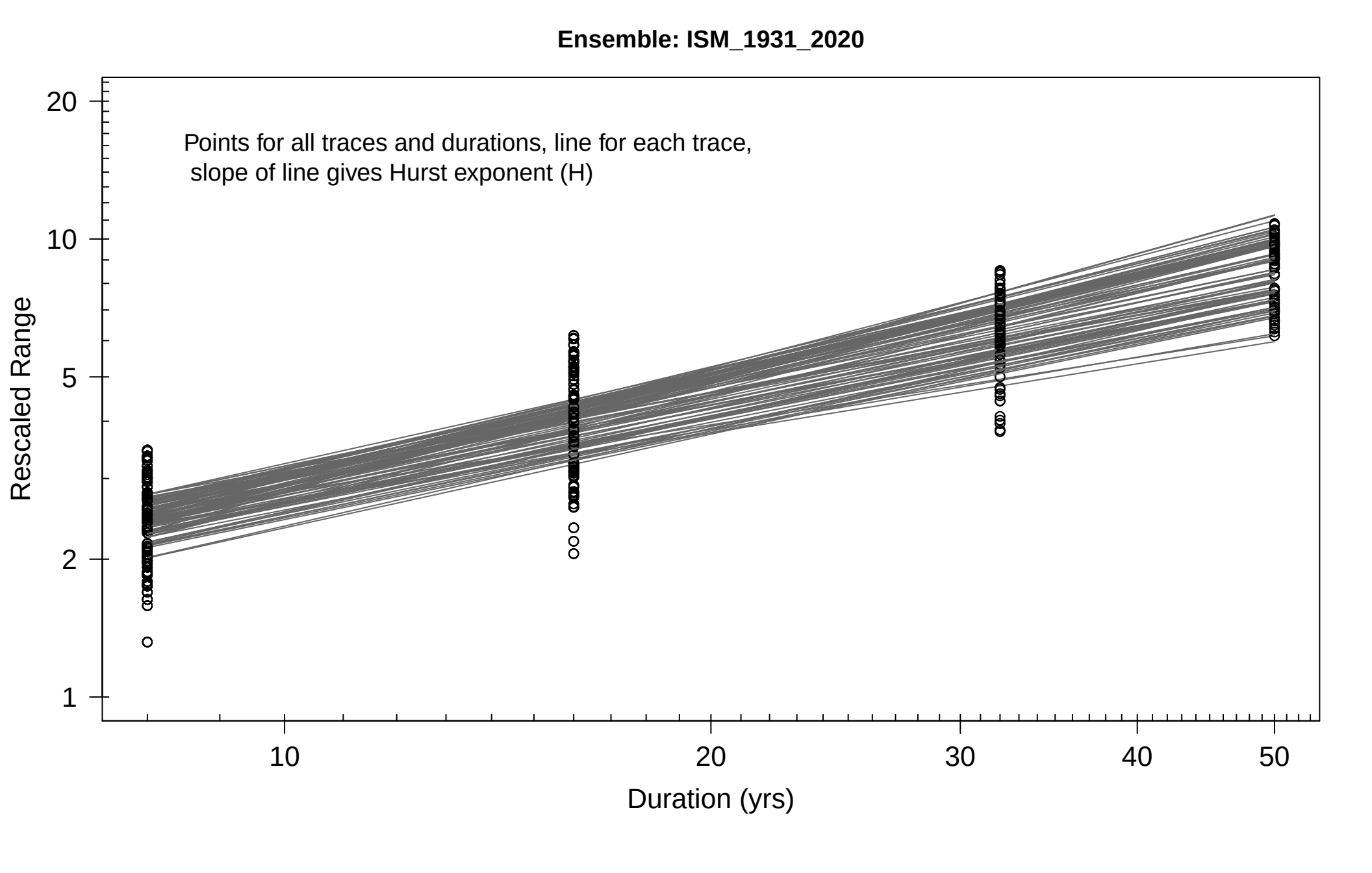

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: TempAdj_RCP8.5_3%
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

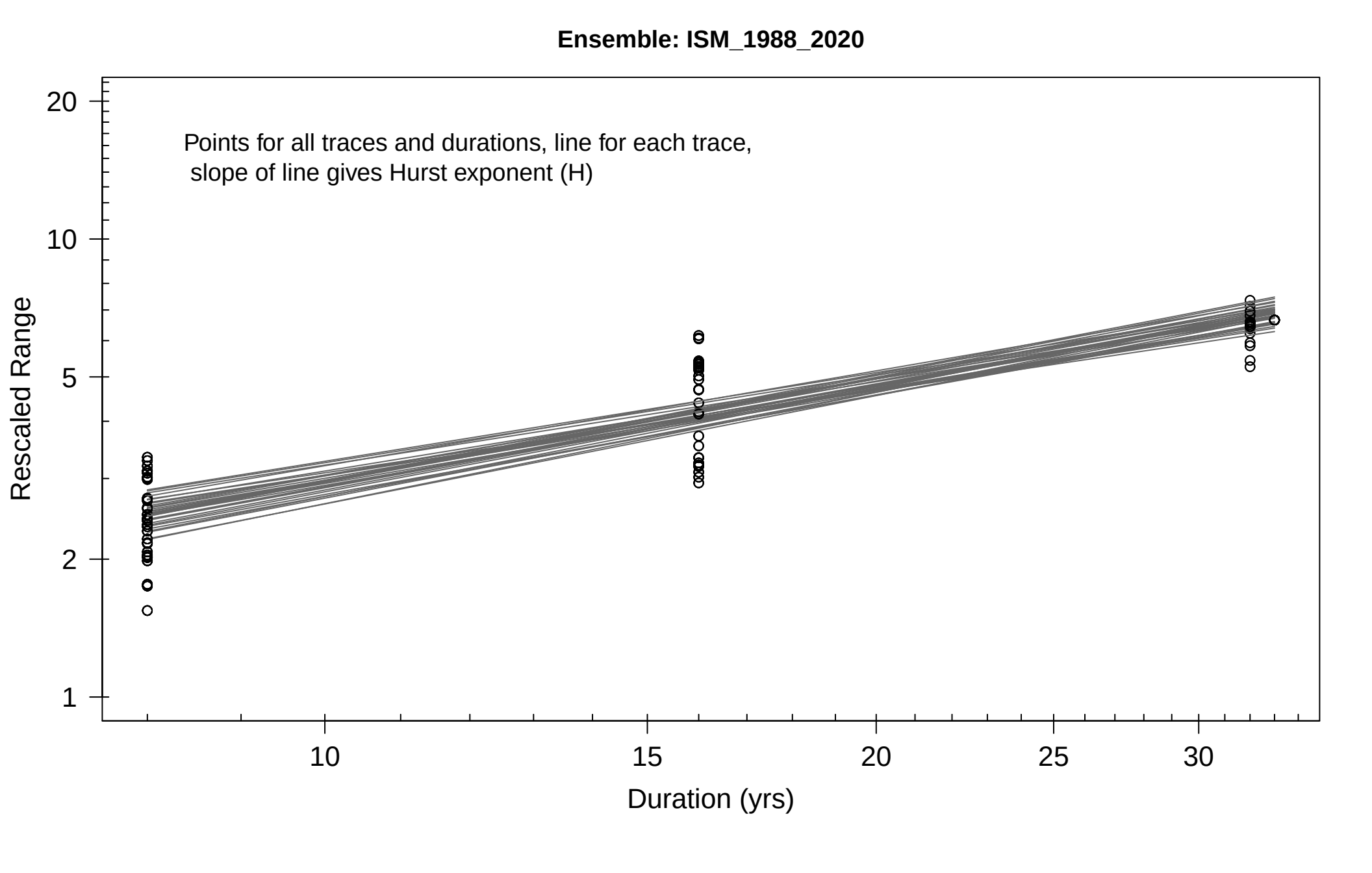

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: TempAdj_RCP8.5_6.5%
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
Last year of duration
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072

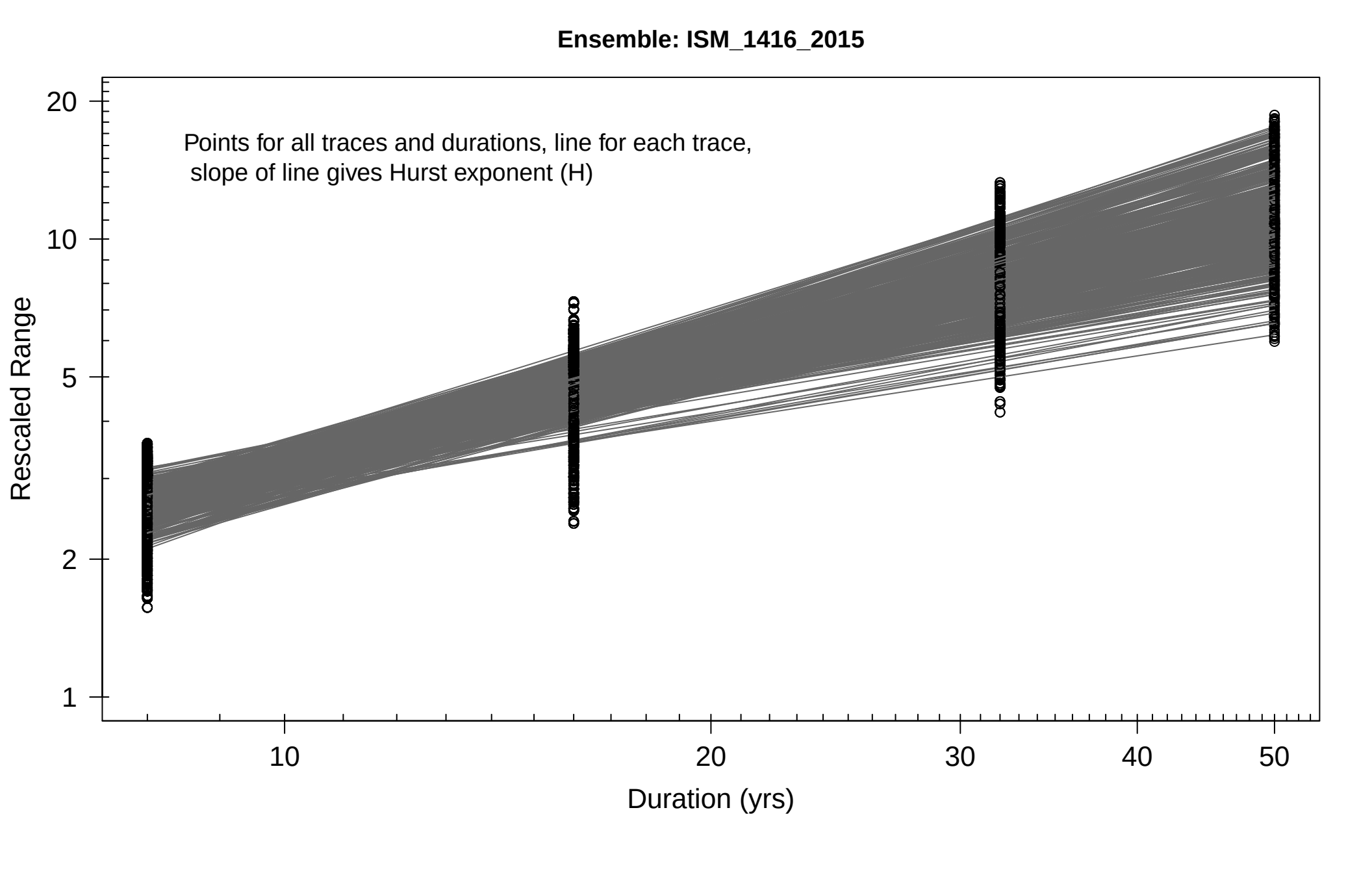

Moving count above threshold (Duration: 10 yrs; Threshold: 20 maf/yr)
Ensemble: TempAdj_RCP8.5_10%
Historical
Count above threshold (yrs)
Count above threshold (% of Duration)
0
2
4
6
8
10
0
10
20
30
40
50
60
70
80
90
100
2027
2032
2037
2042
2047
2052
2057
2062
2067
2072
Last year of duration

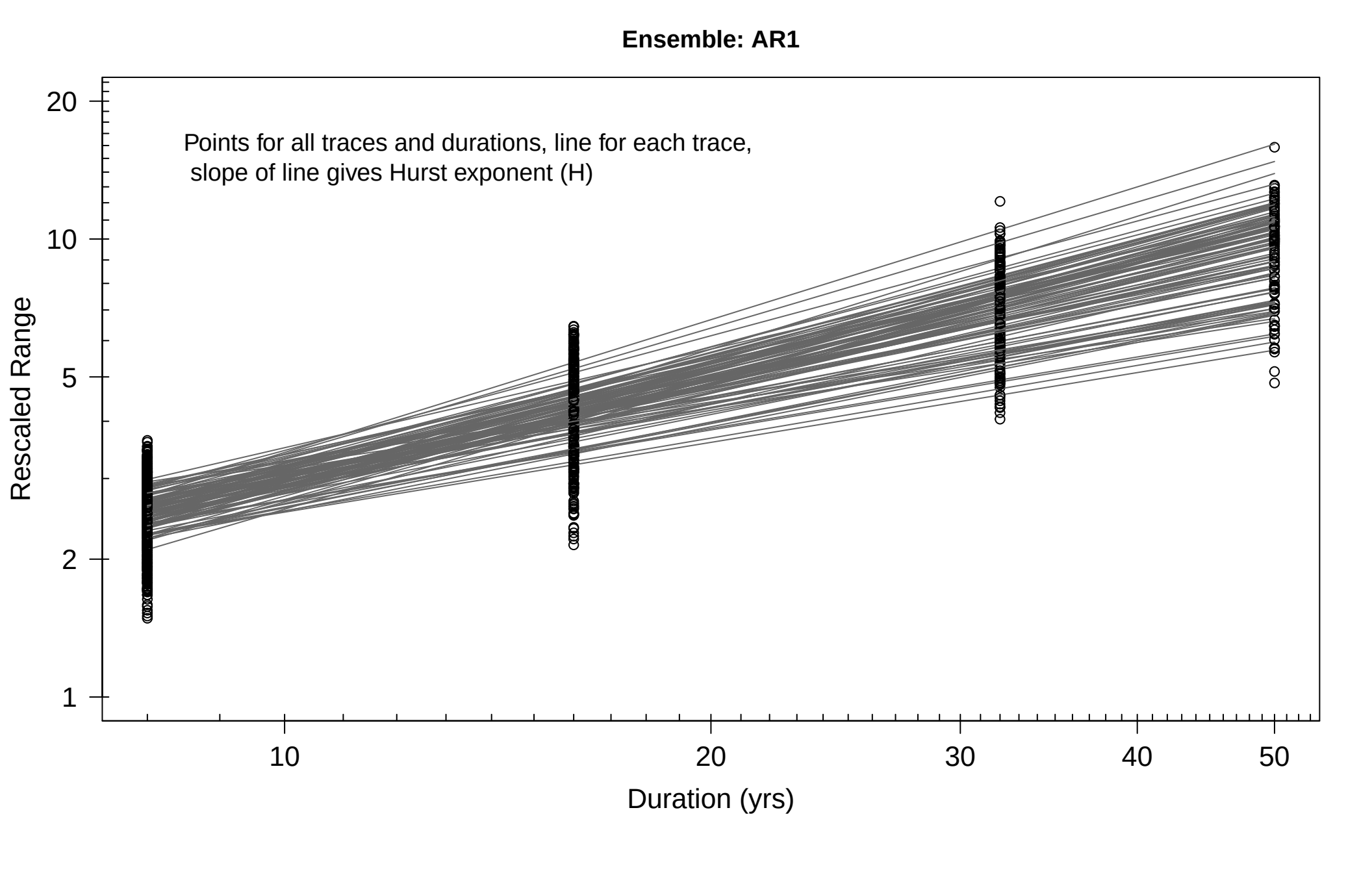

Hurst coefficient
1.0
0.8
0.6
0.4
Historical Hurst
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%

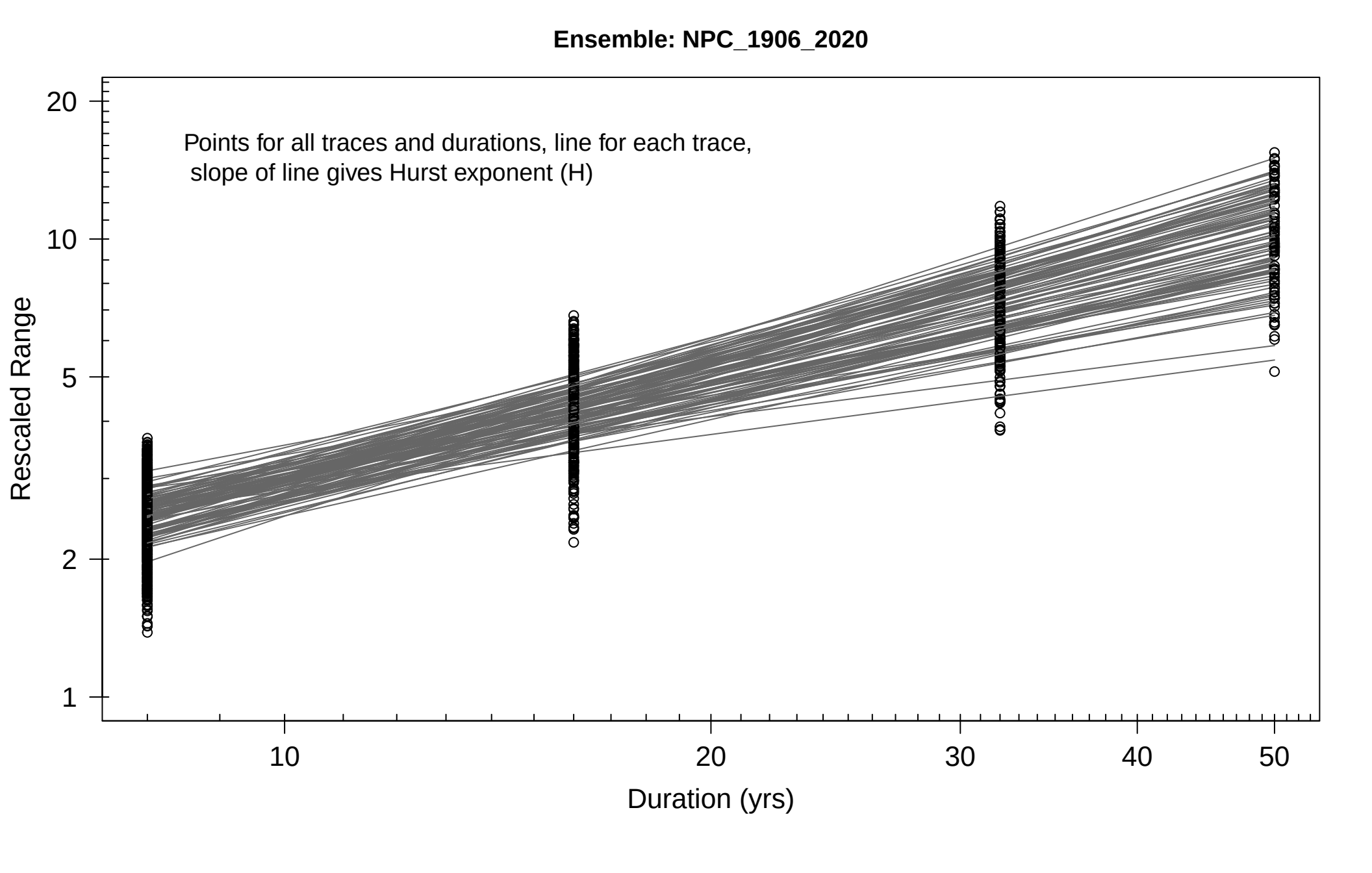

Ensemble: ISM_1906_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

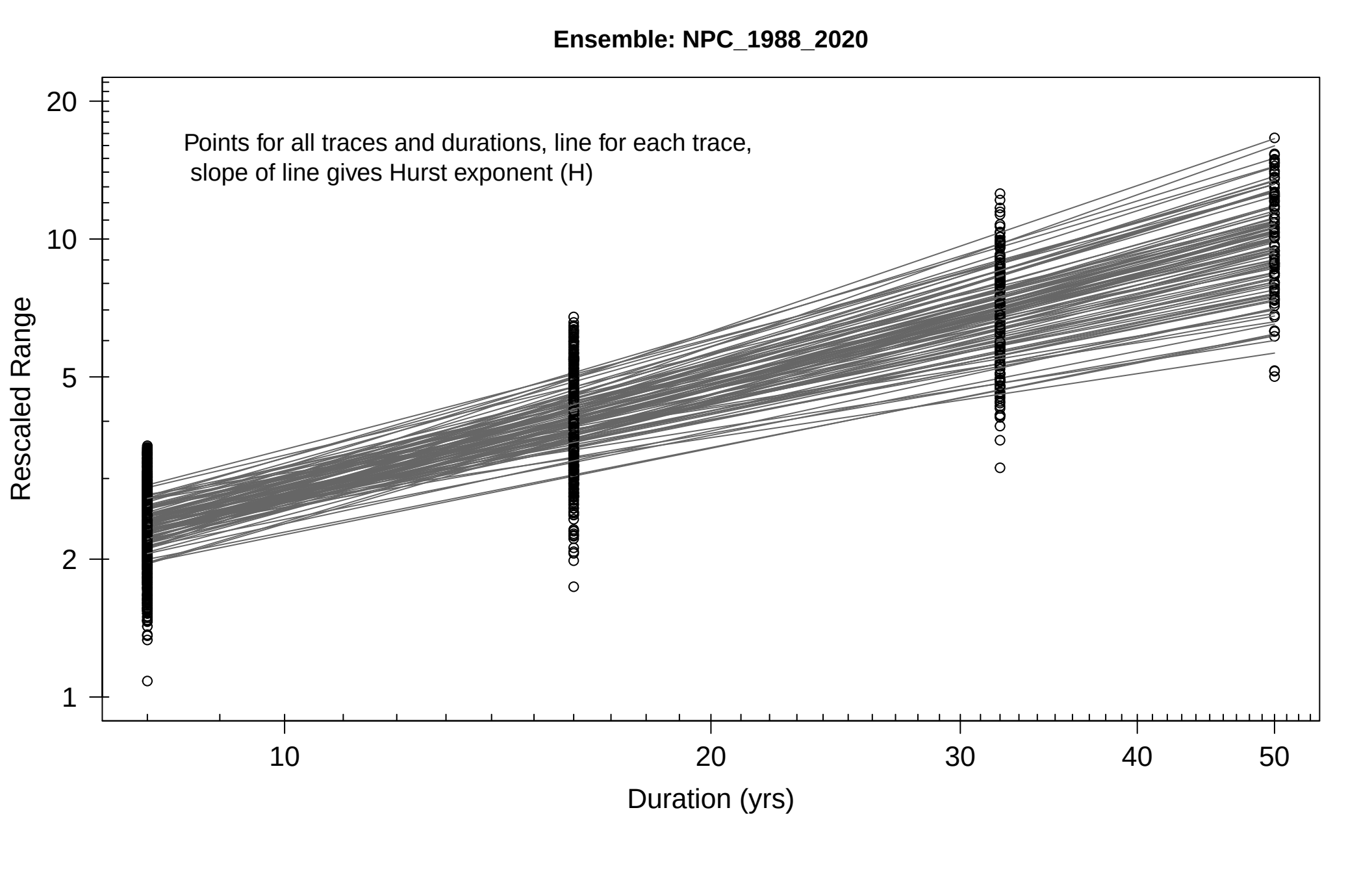

Ensemble: ISM_1931_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

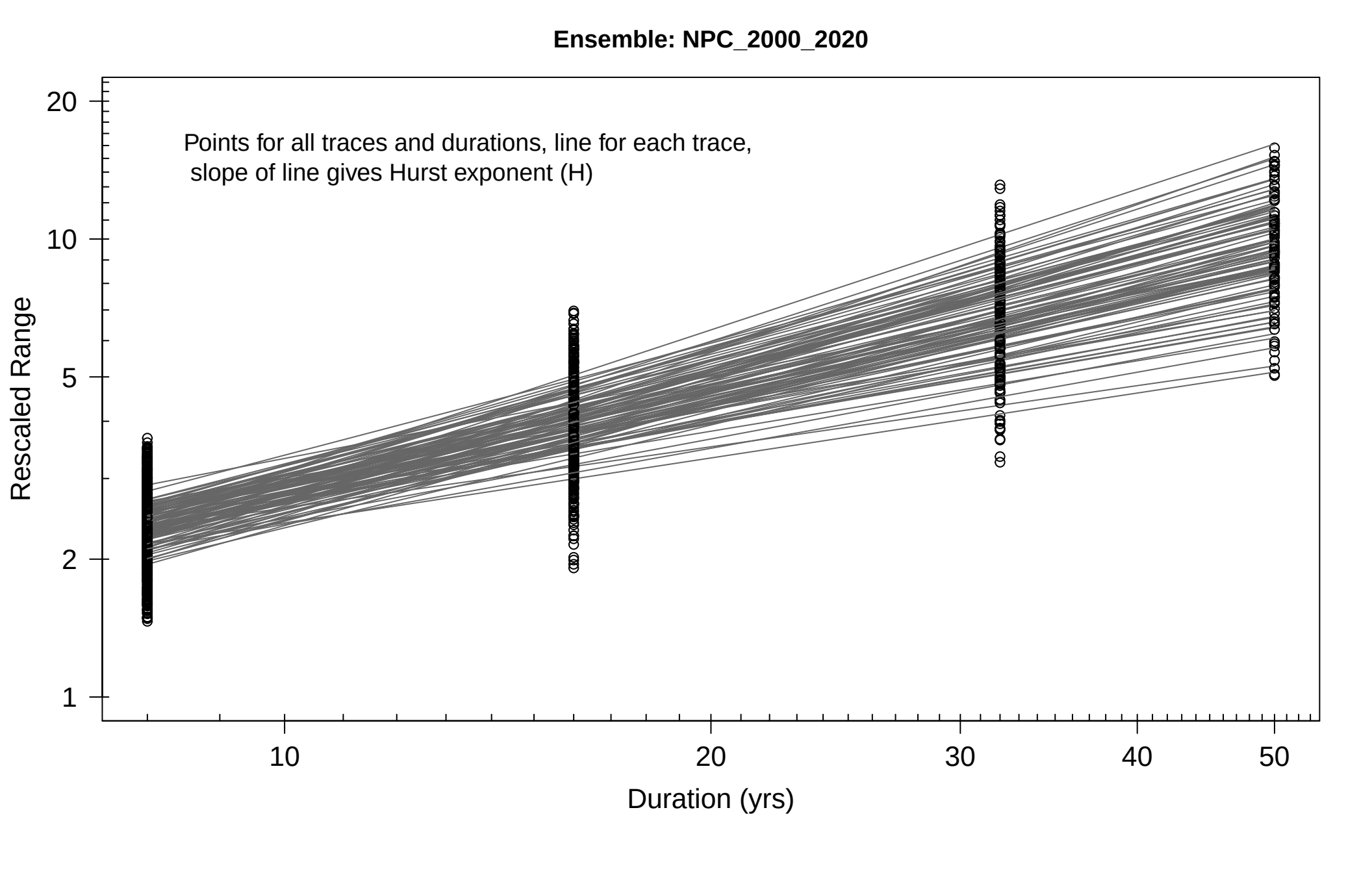

Ensemble: ISM_1988_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
15
20
25
30
Duration (yrs)

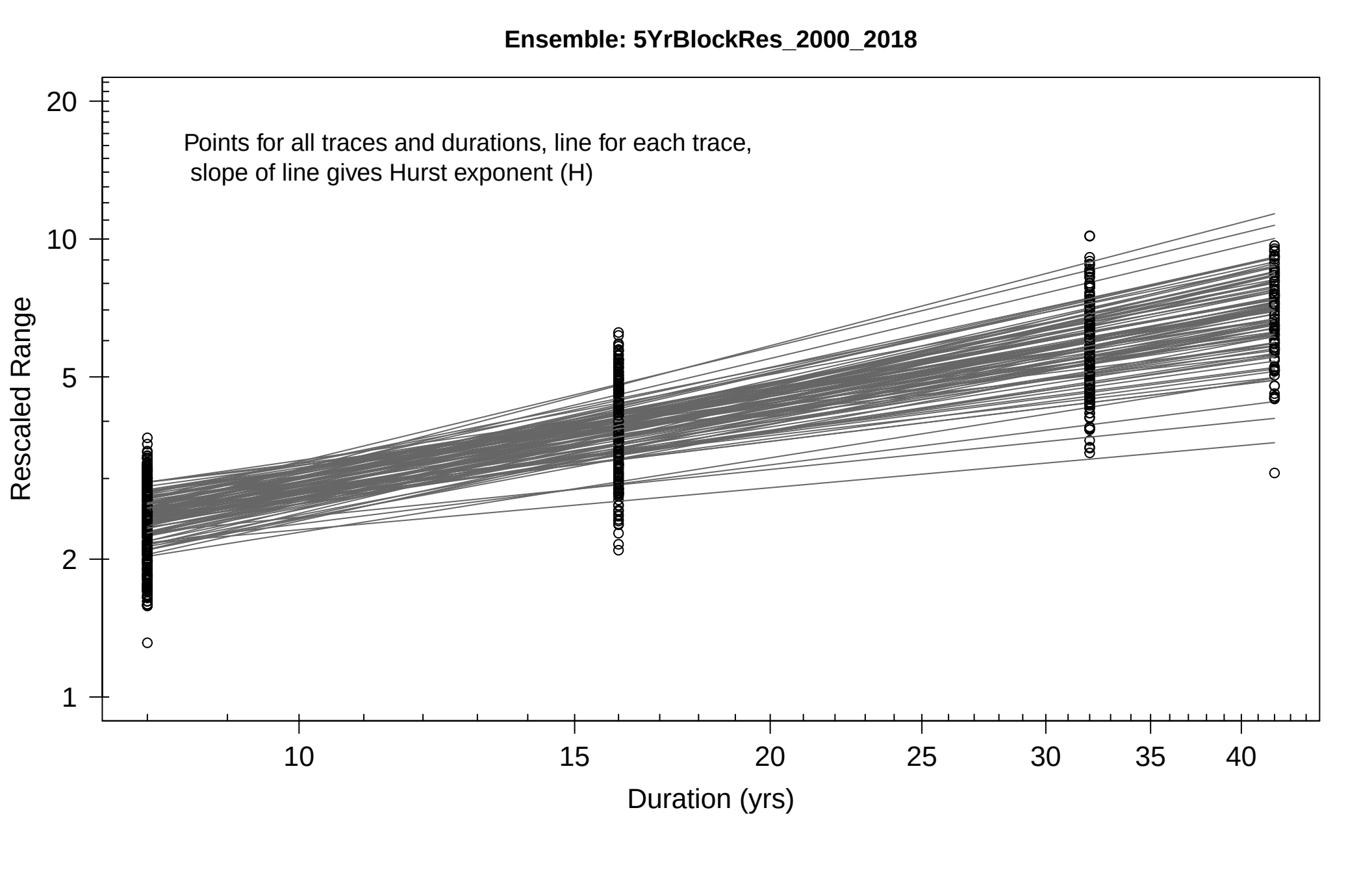

Ensemble: ISM_1416_2015
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

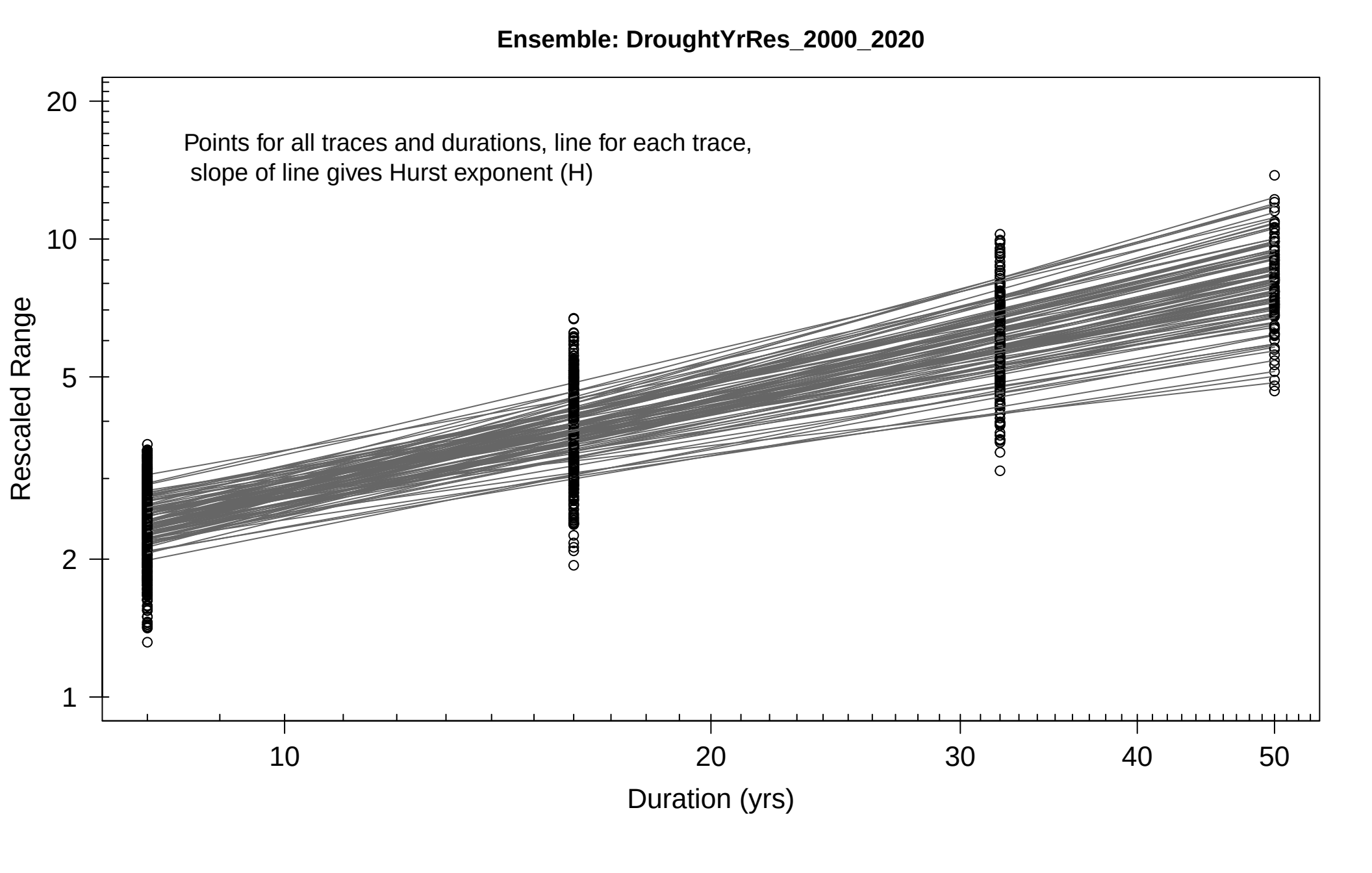

Ensemble: AR1
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

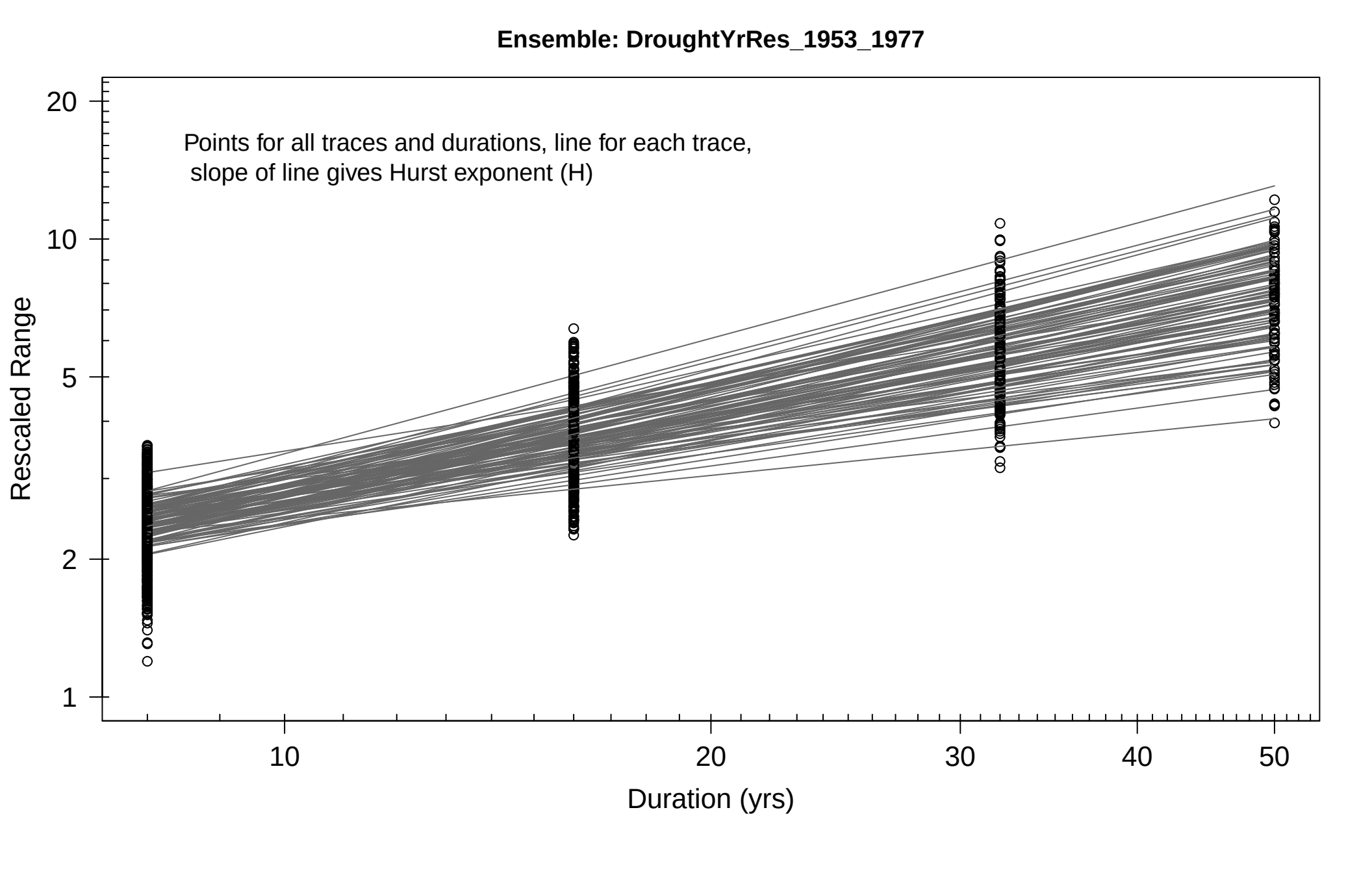

Ensemble: NPC_1906_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

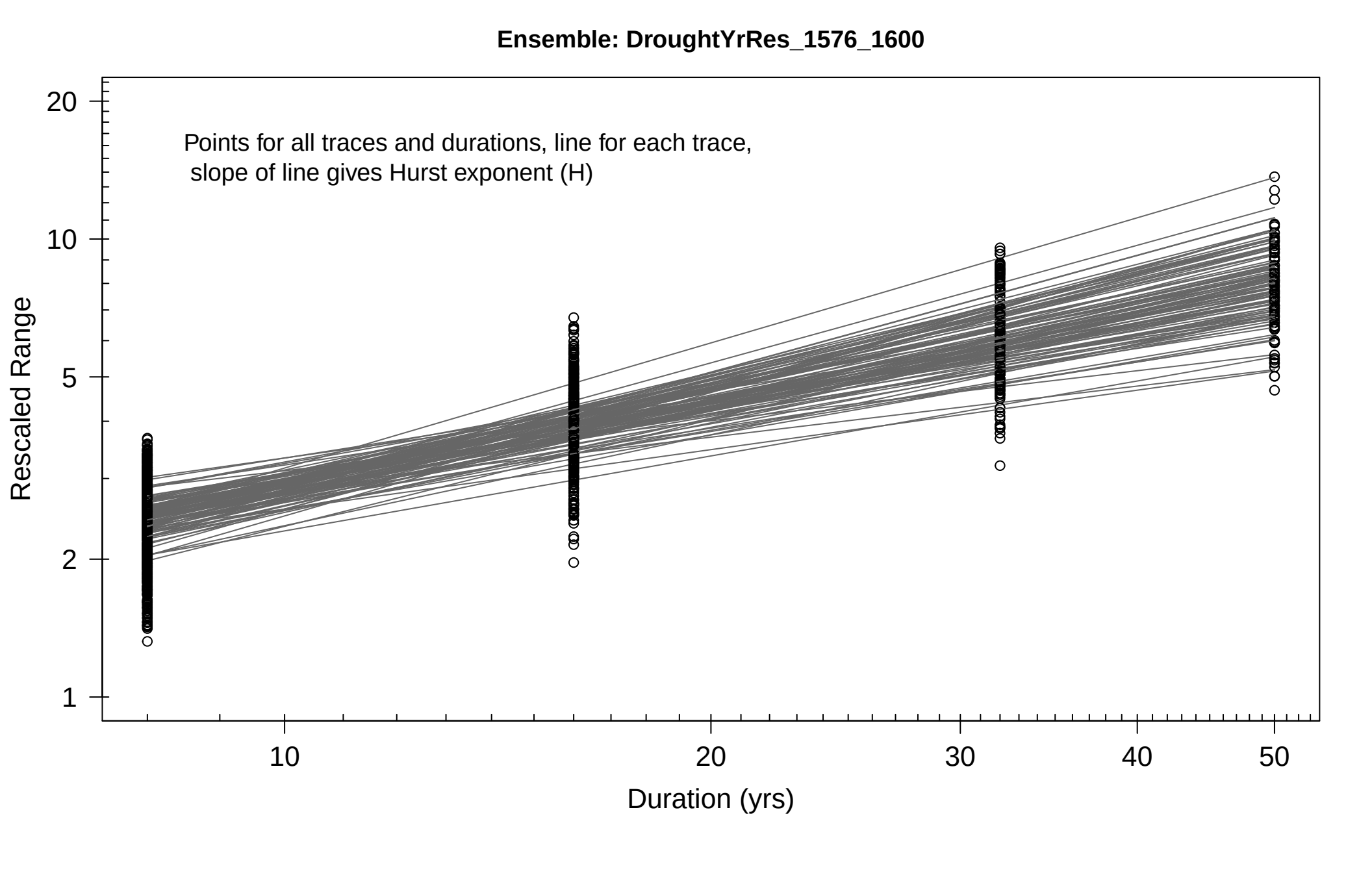

Ensemble: NPC_1988_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

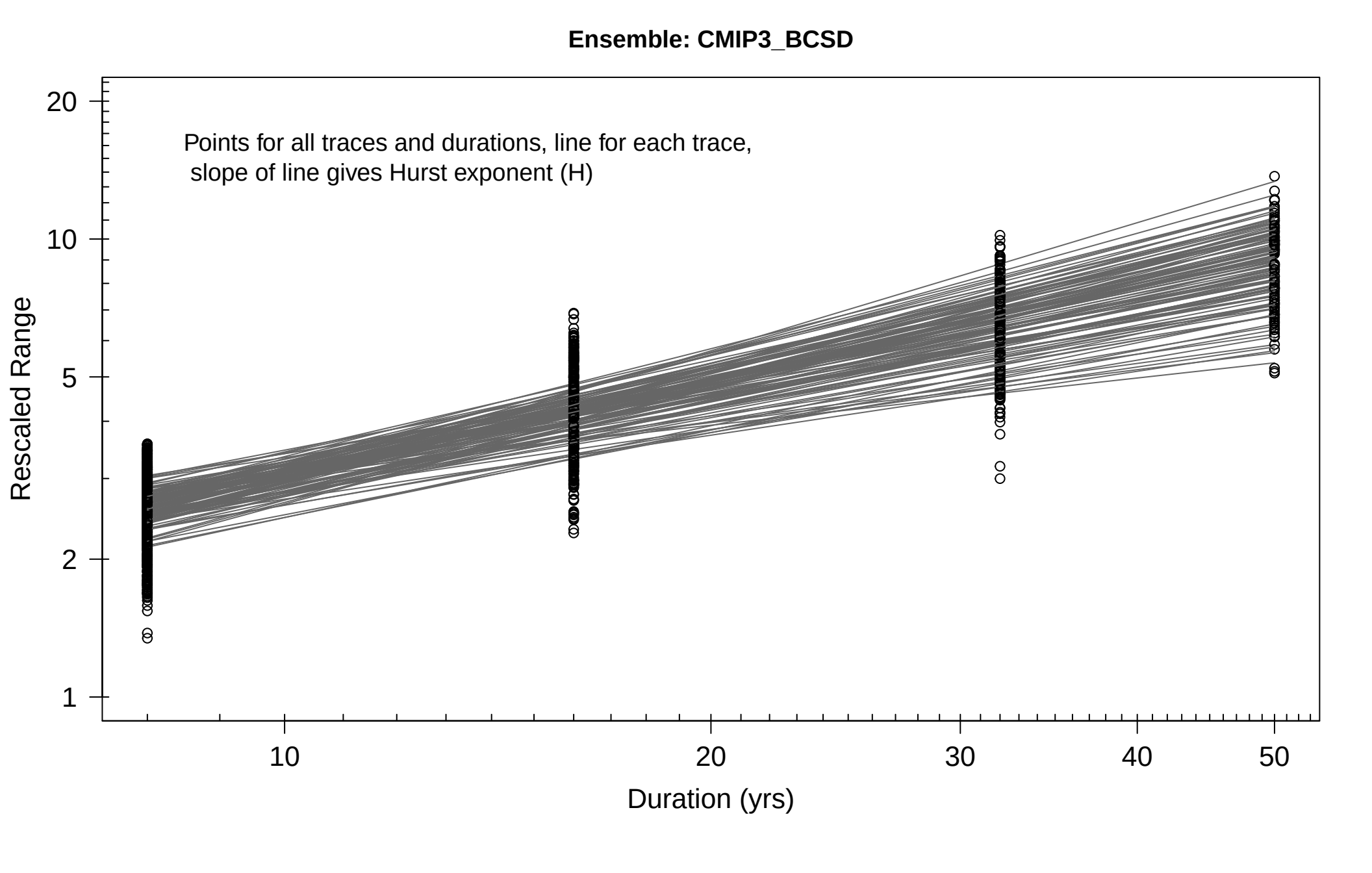

Ensemble: NPC_2000_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

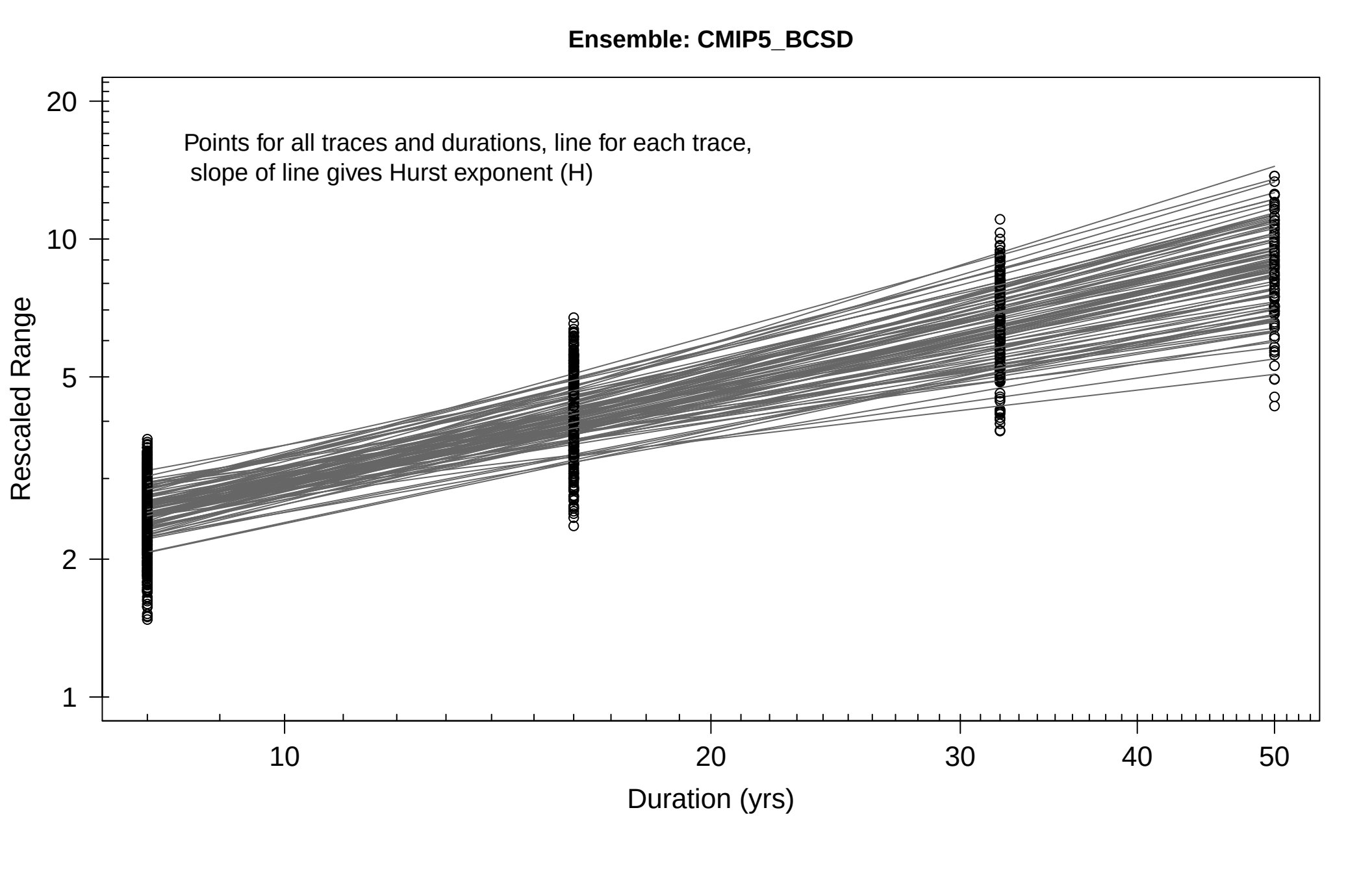

Ensemble: 5YrBlockRes_2000_2018
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
15
20
25
30
35
40
Duration (yrs)

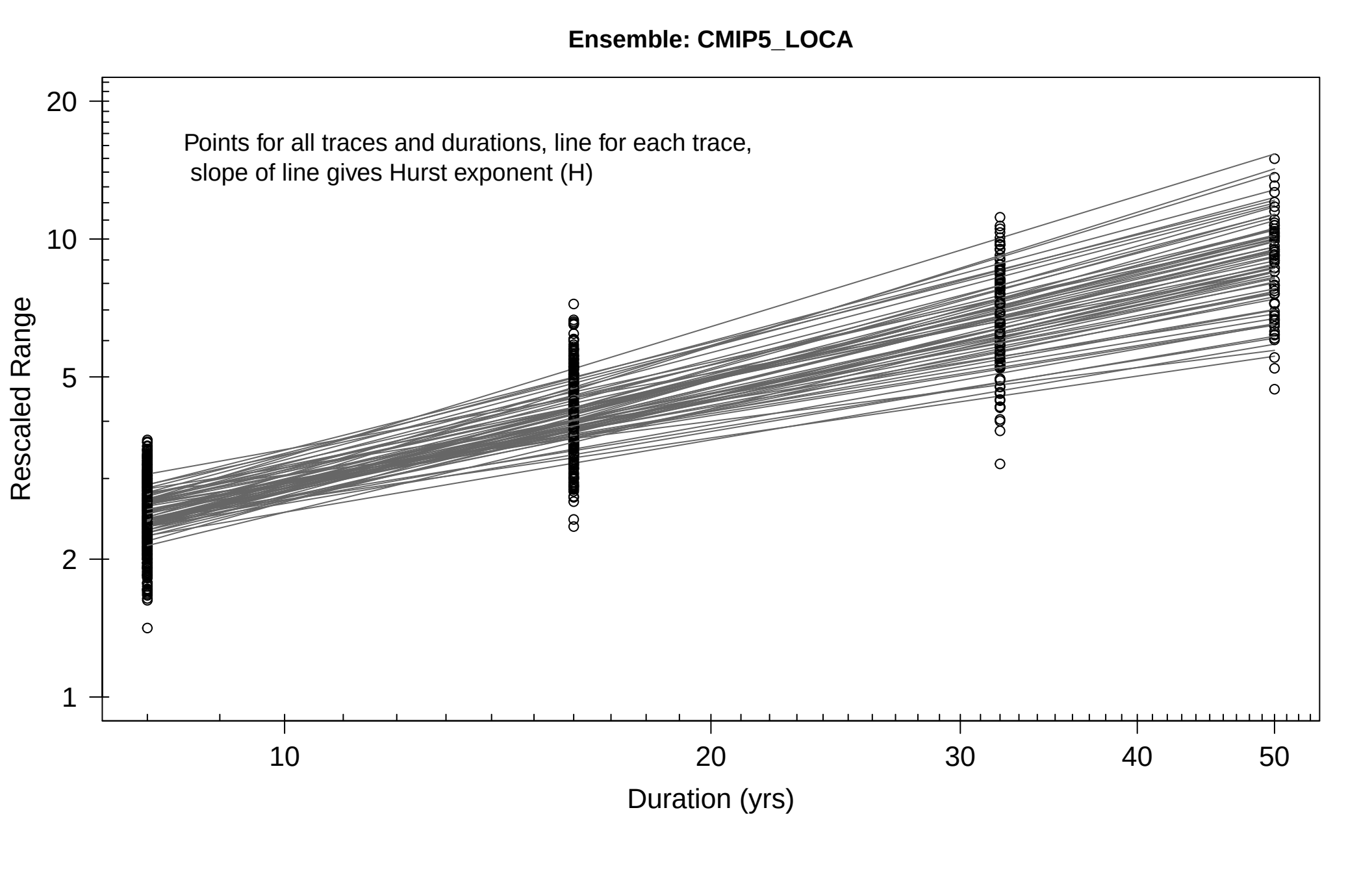

Ensemble: DroughtYrRes_2000_2020
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

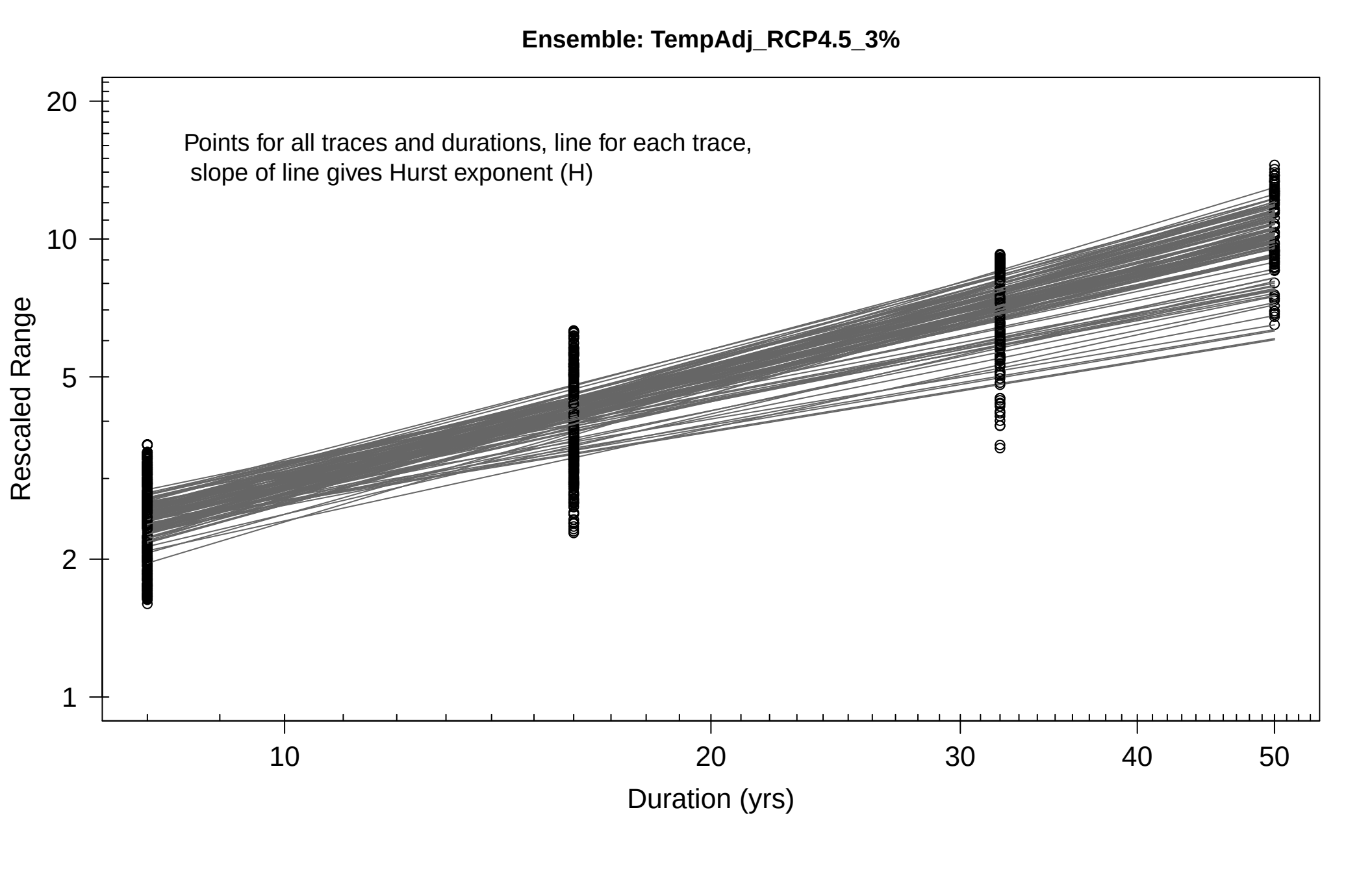

Ensemble: DroughtYrRes_1953_1977
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

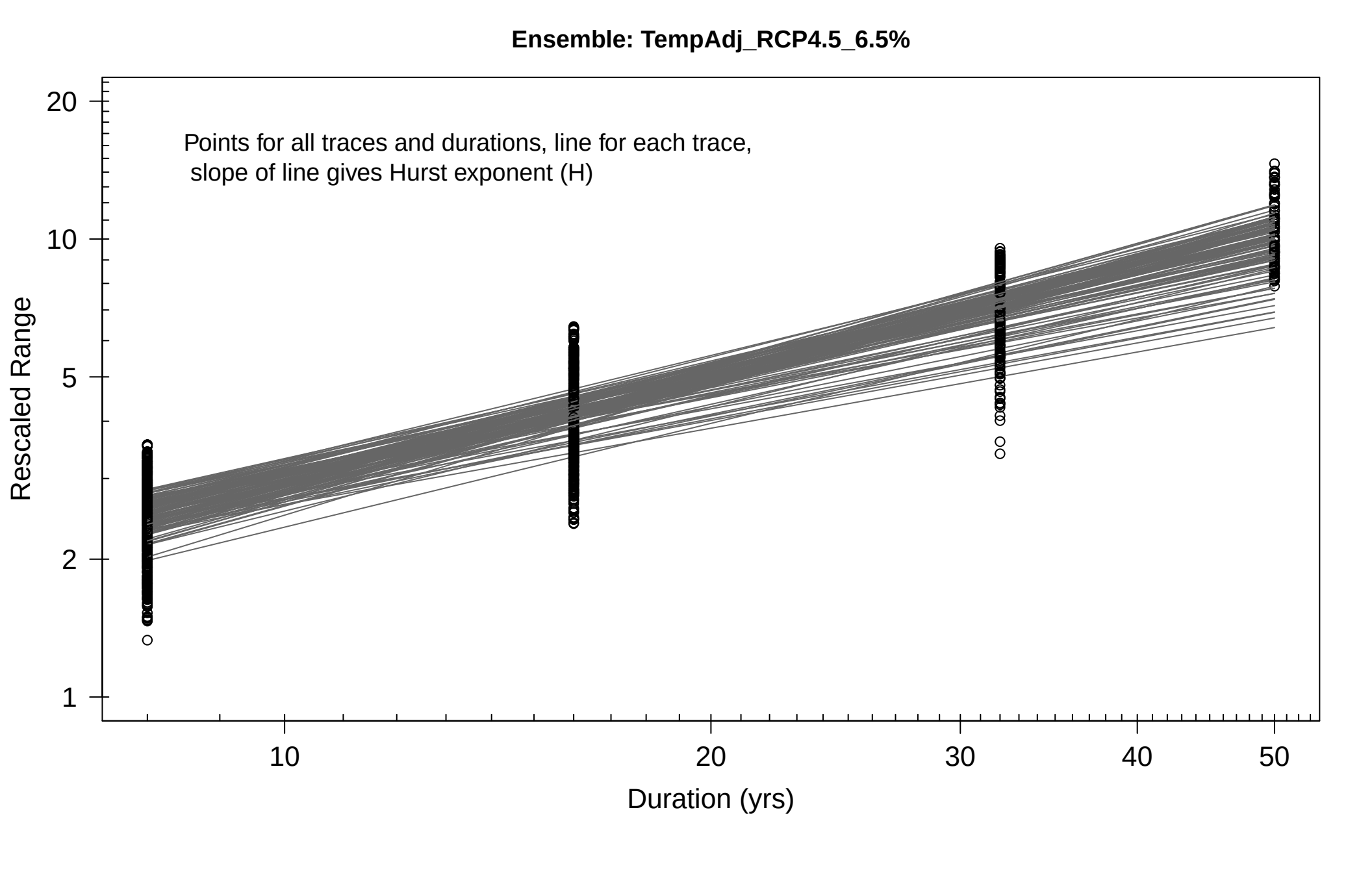

Ensemble: DroughtYrRes_1576_1600
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

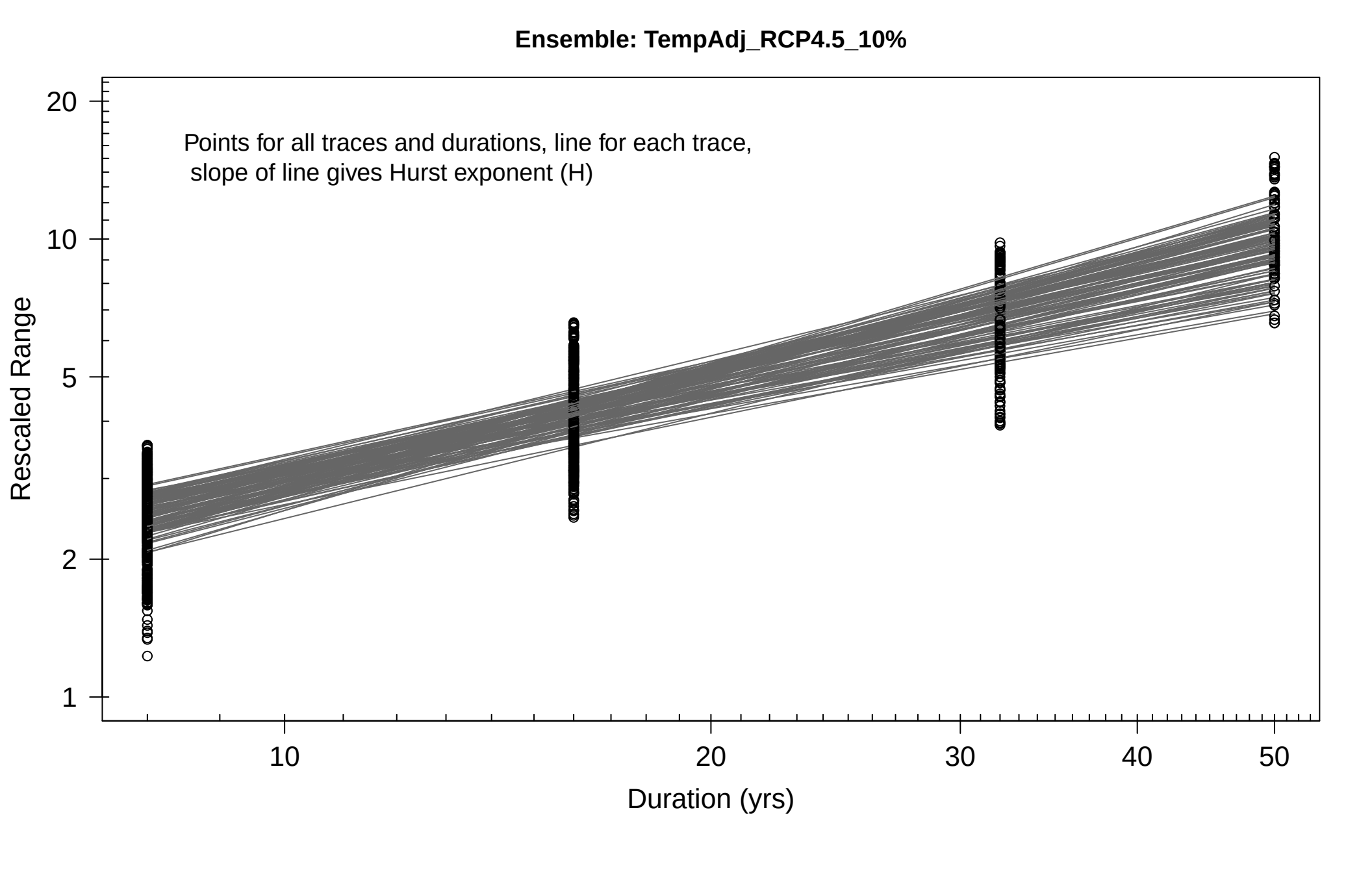

Ensemble: CMIP3_BCSD
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

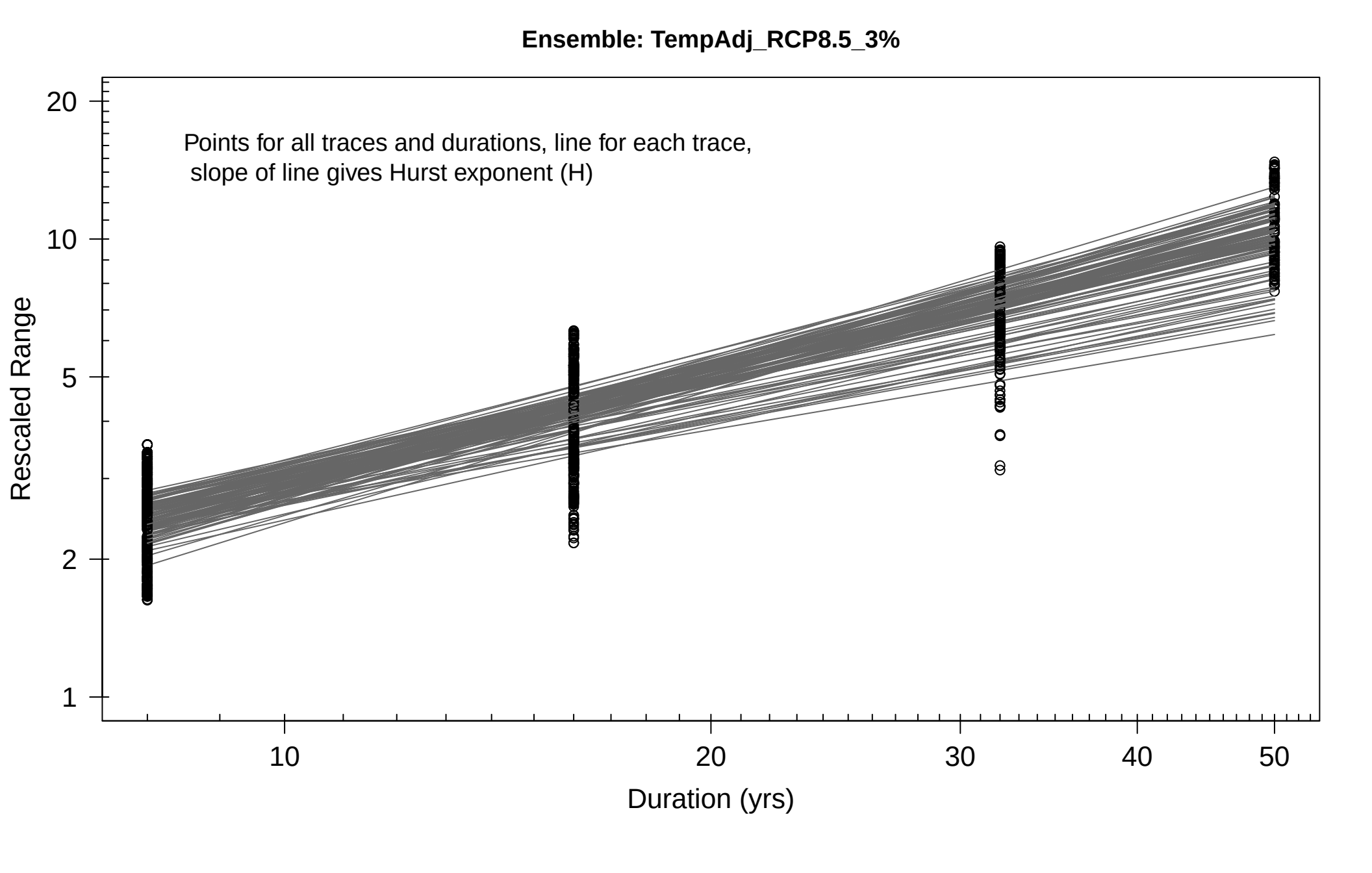

Ensemble: CMIP5_BCSD
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

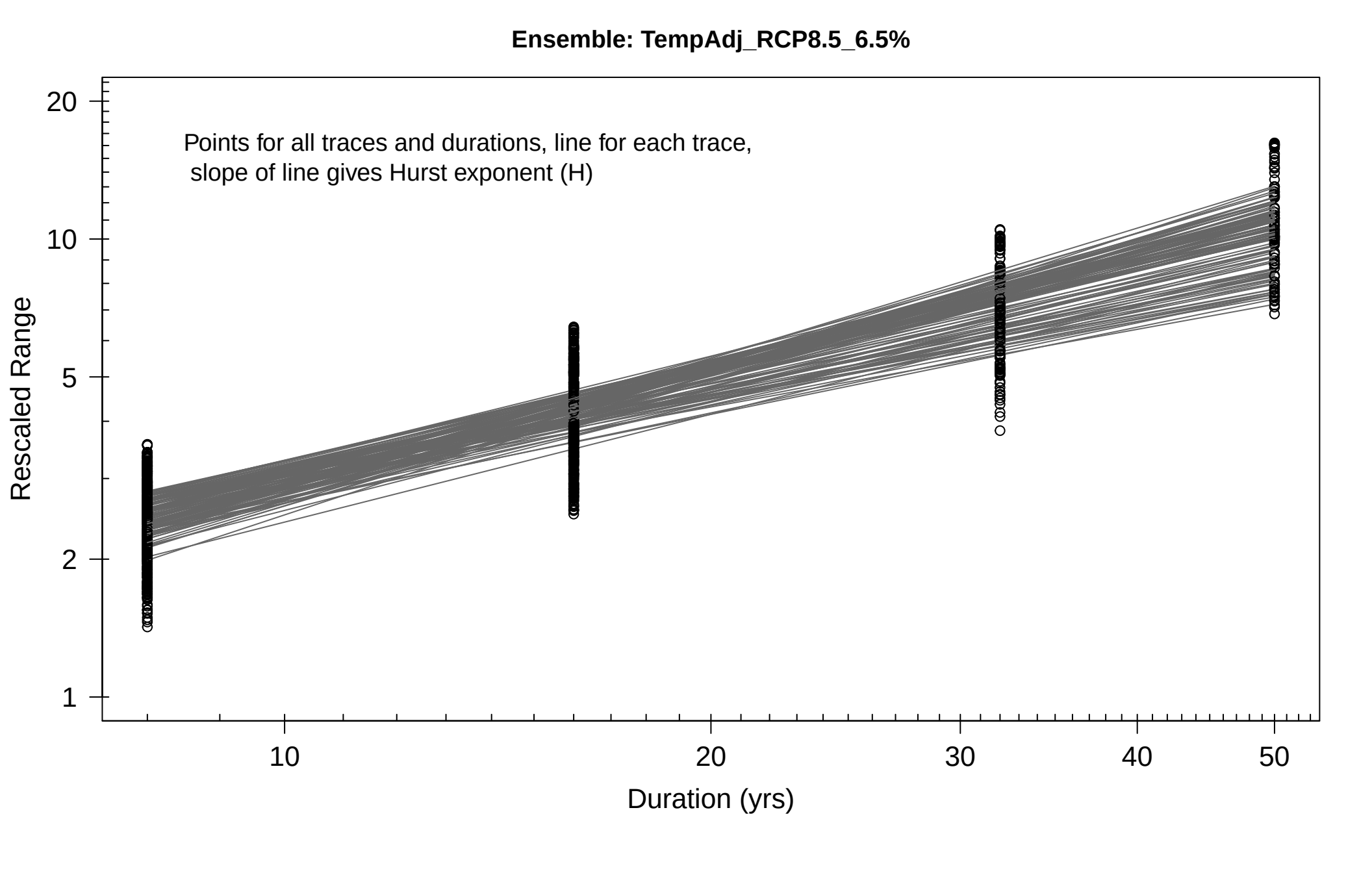

Ensemble: CMIP5_LOCA
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

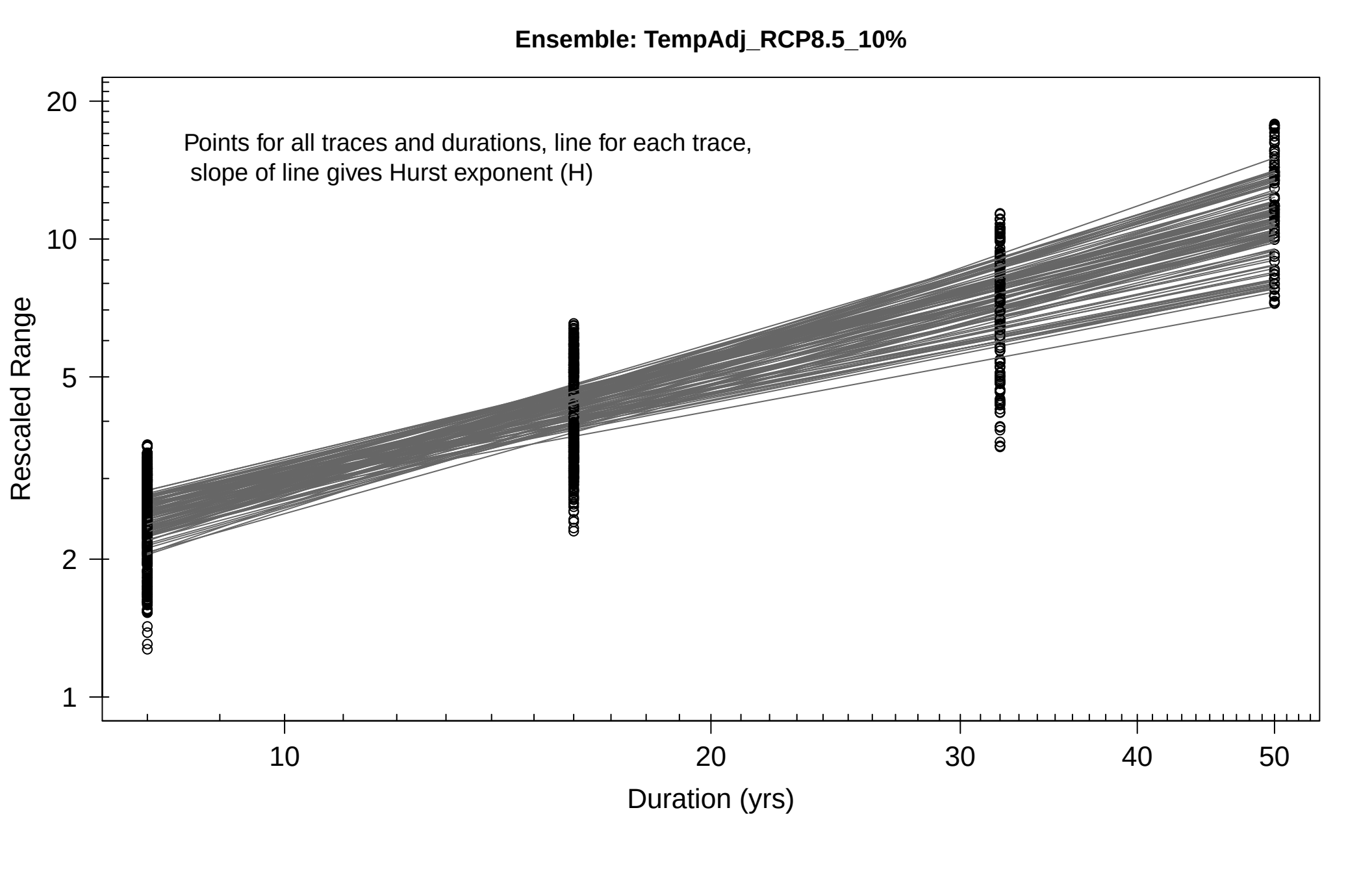

Ensemble: TempAdj_RCP4.5_3%
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

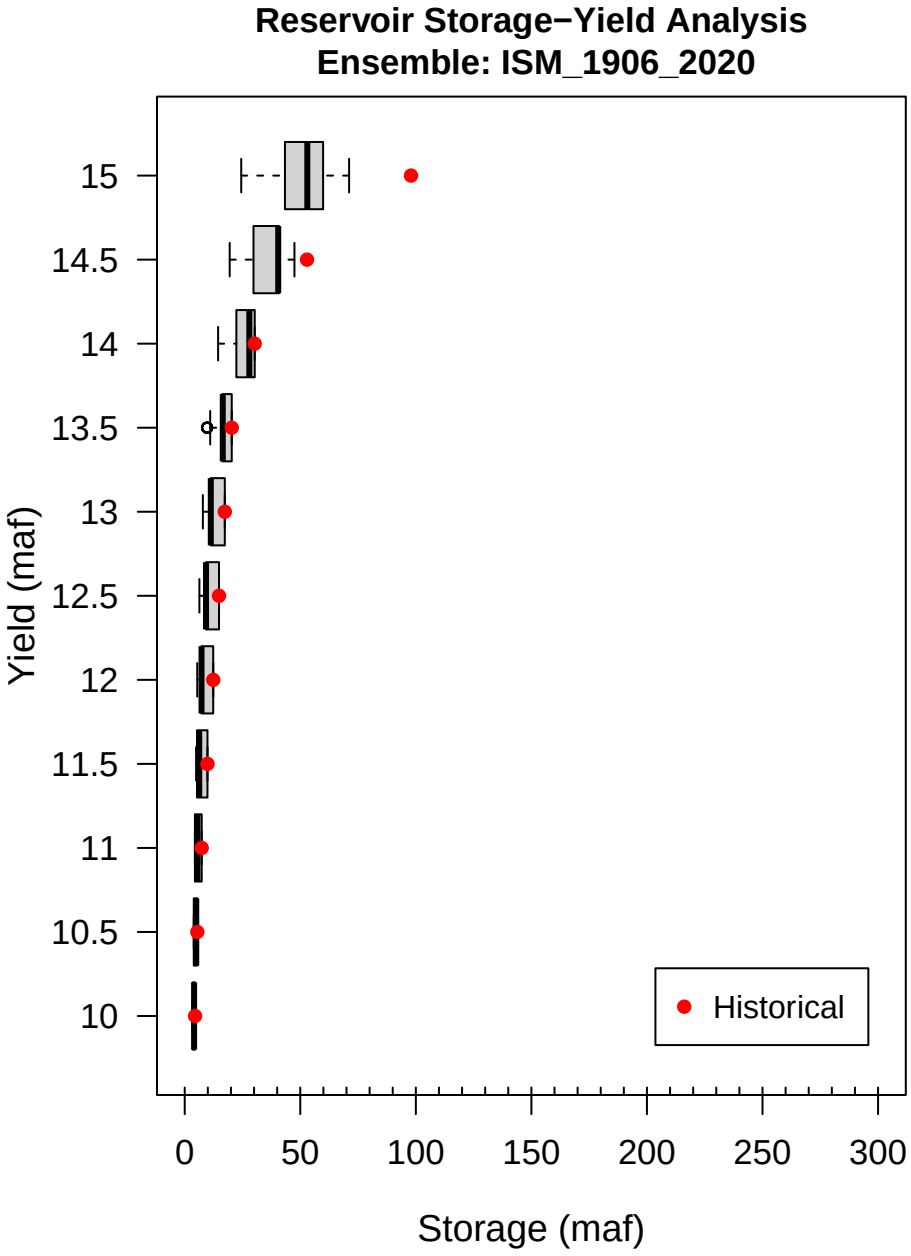

Ensemble: TempAdj_RCP4.5_6.5%
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

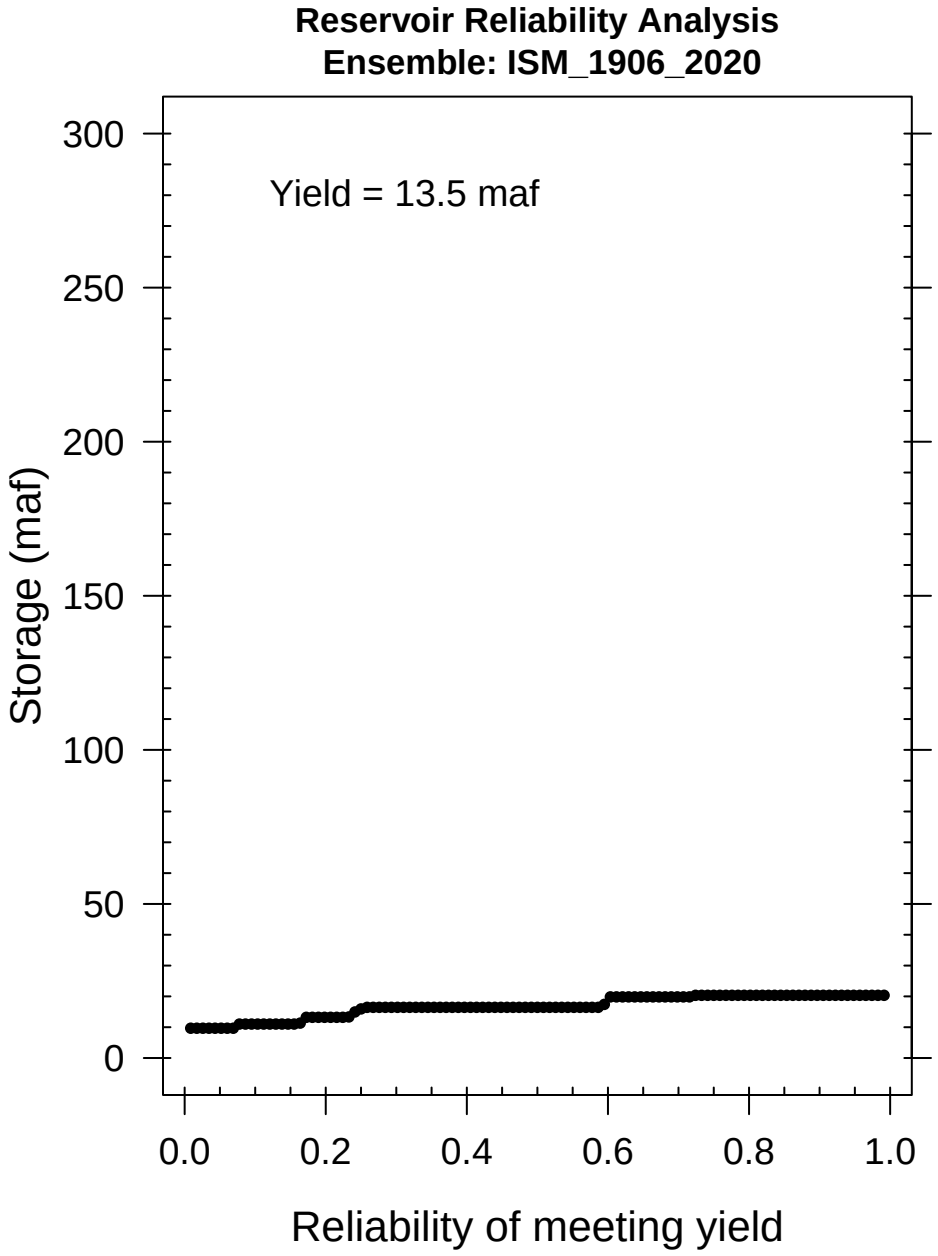

Ensemble: TempAdj_RCP4.5_10%
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

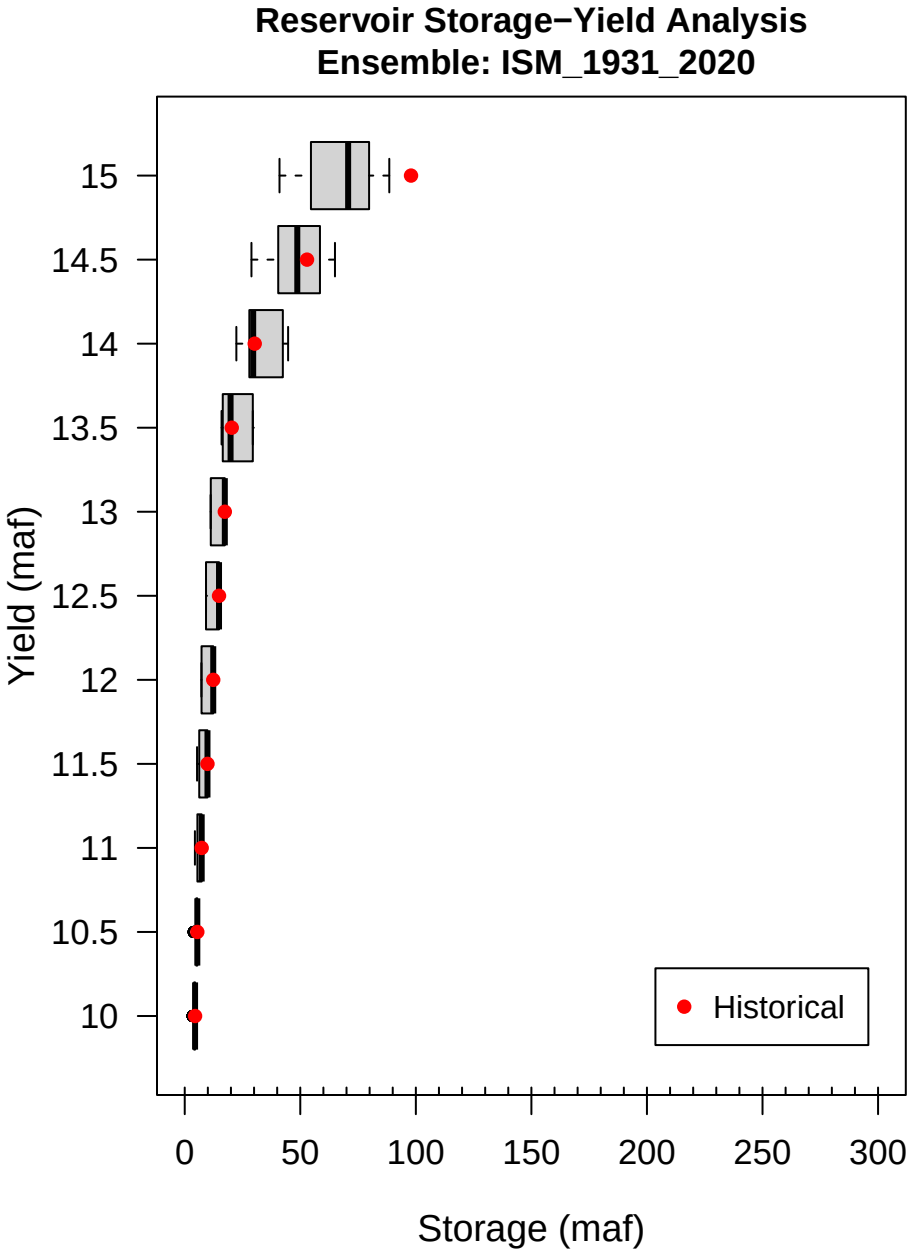

Ensemble: TempAdj_RCP8.5_3%
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

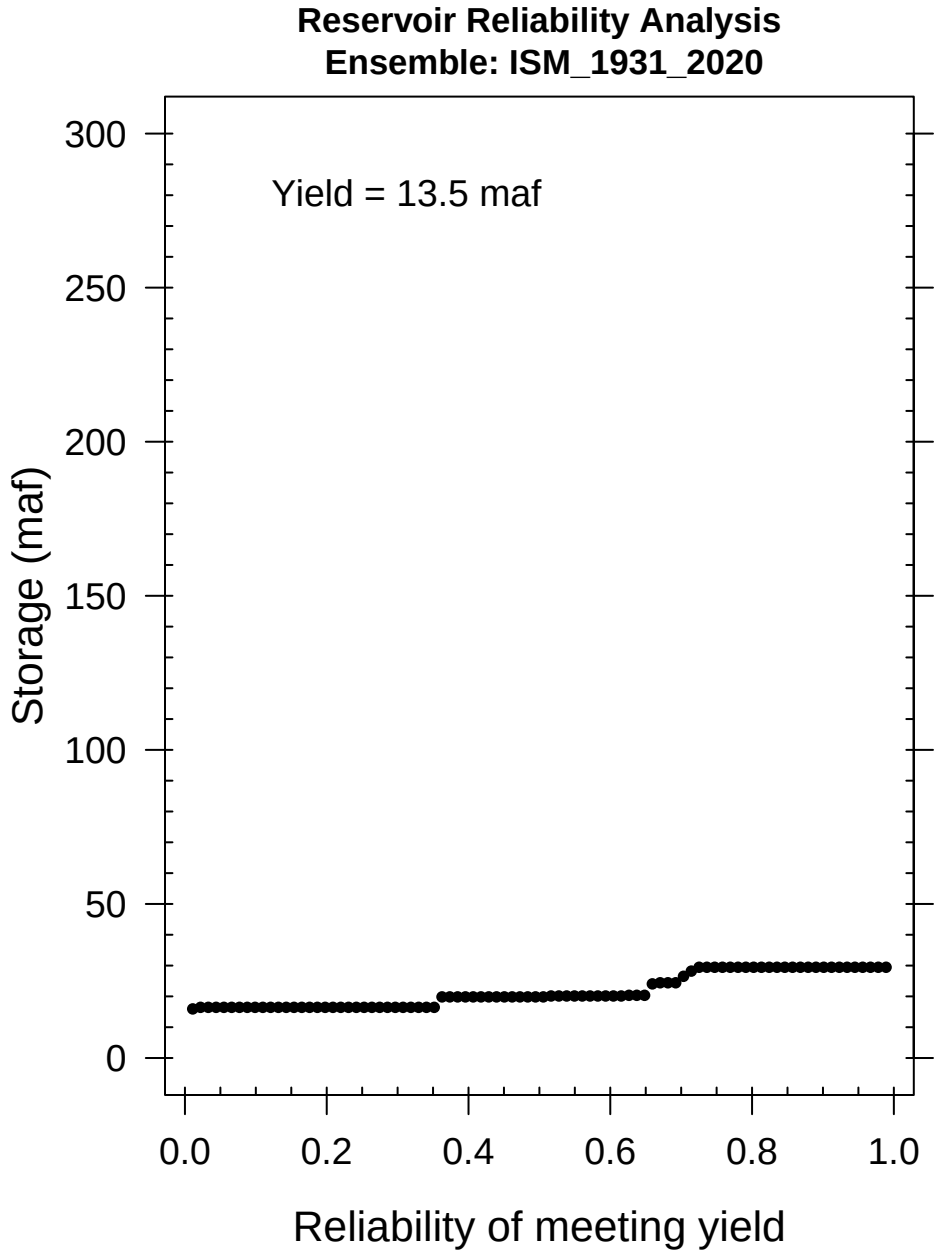

Ensemble: TempAdj_RCP8.5_6.5%
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

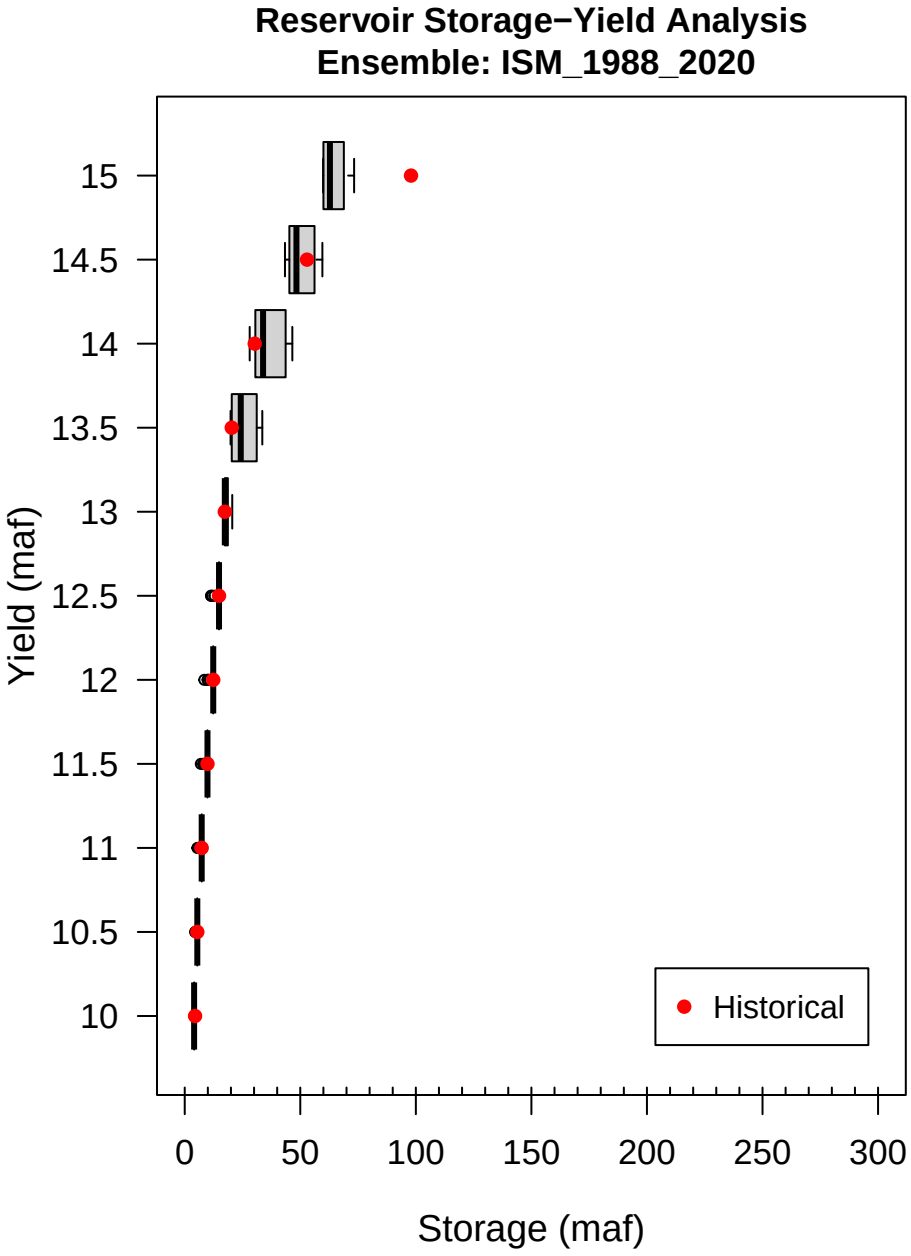

Ensemble: TempAdj_RCP8.5_10%
Points for all traces and durations, line for each trace,
slope of line gives Hurst exponent (H)
Rescaled Range
20
10
5
2
1
10
20
30
40
50
Duration (yrs)

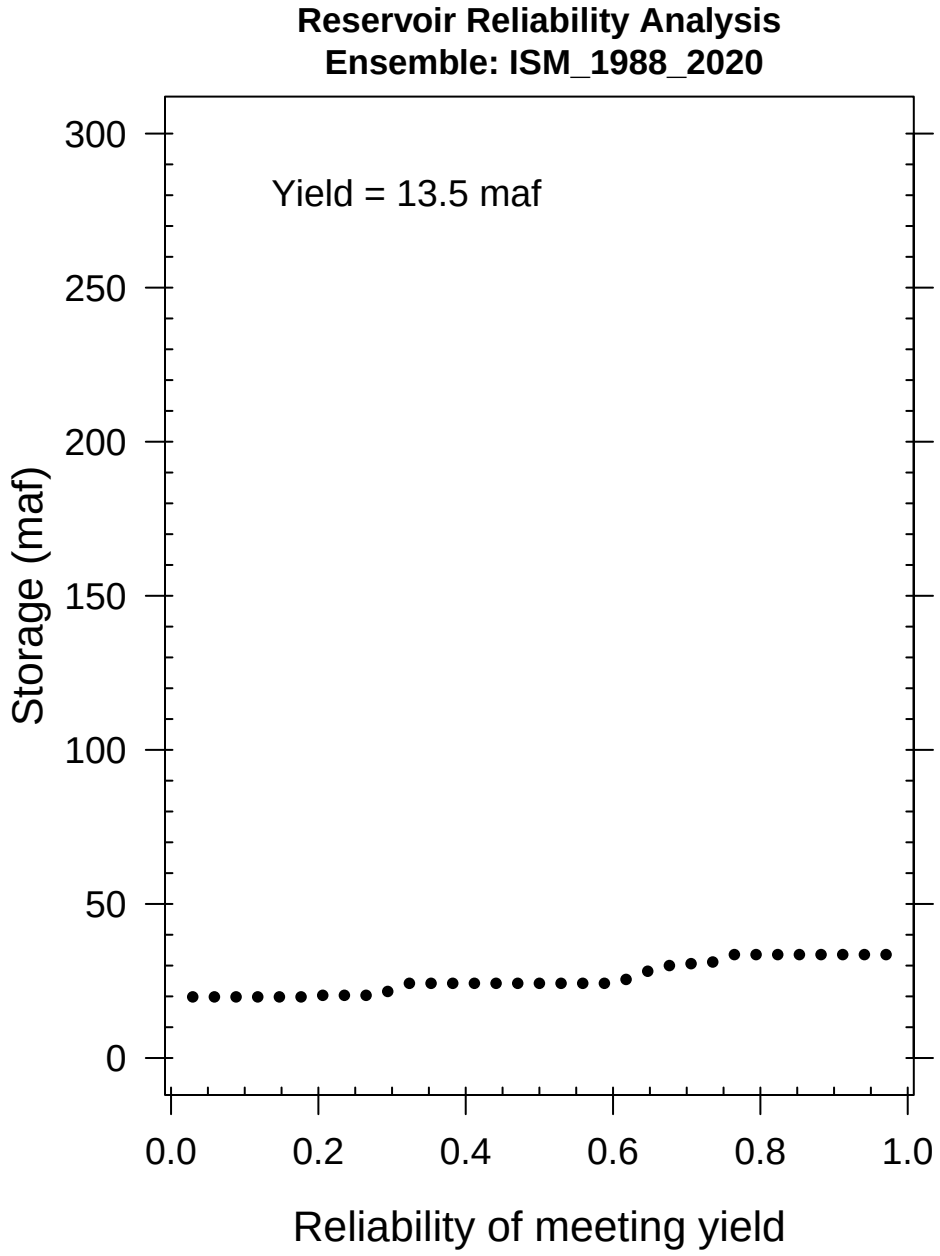

Reservoir Storage−Yield Analysis
Ensemble: ISM_1906_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

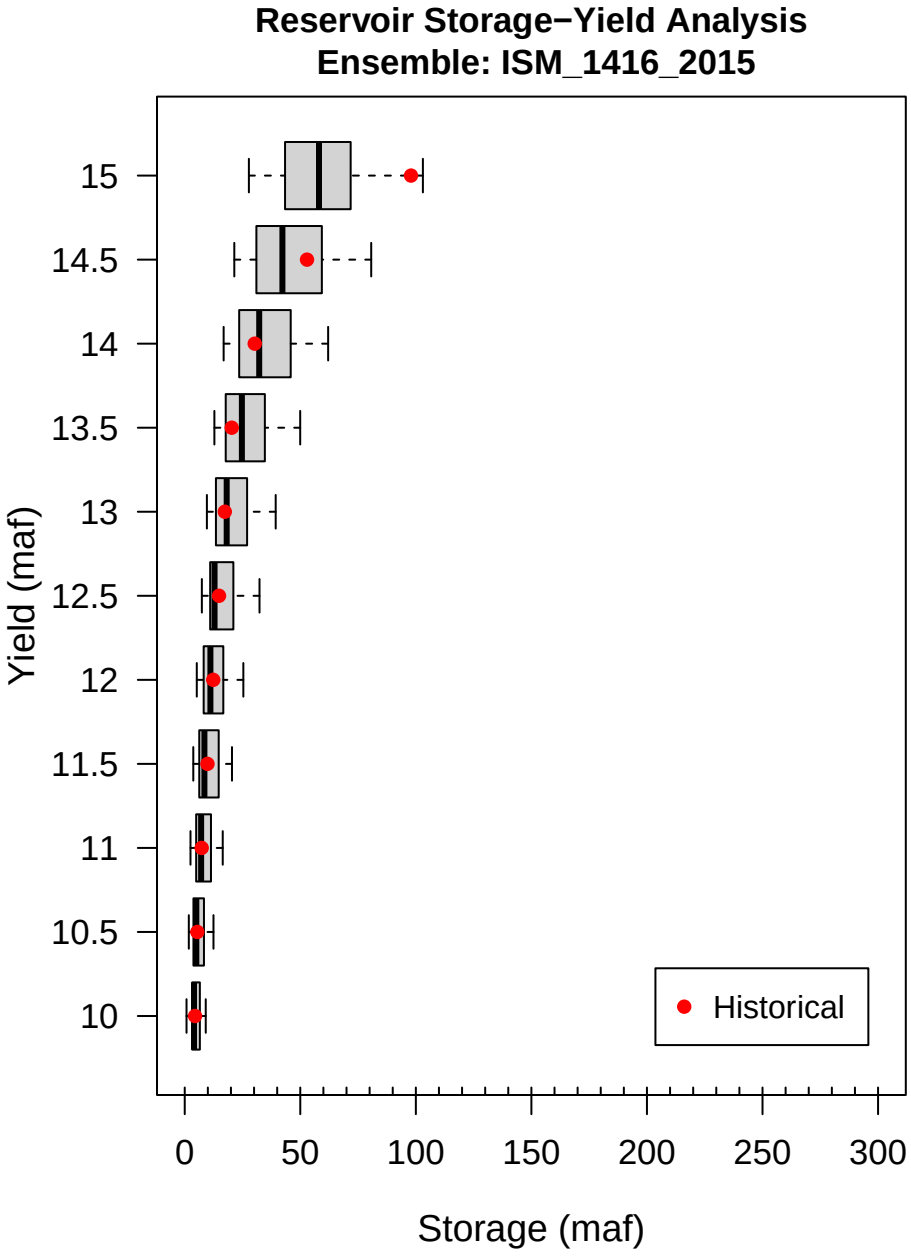

Reservoir Reliability Analysis
Ensemble: ISM_1906_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

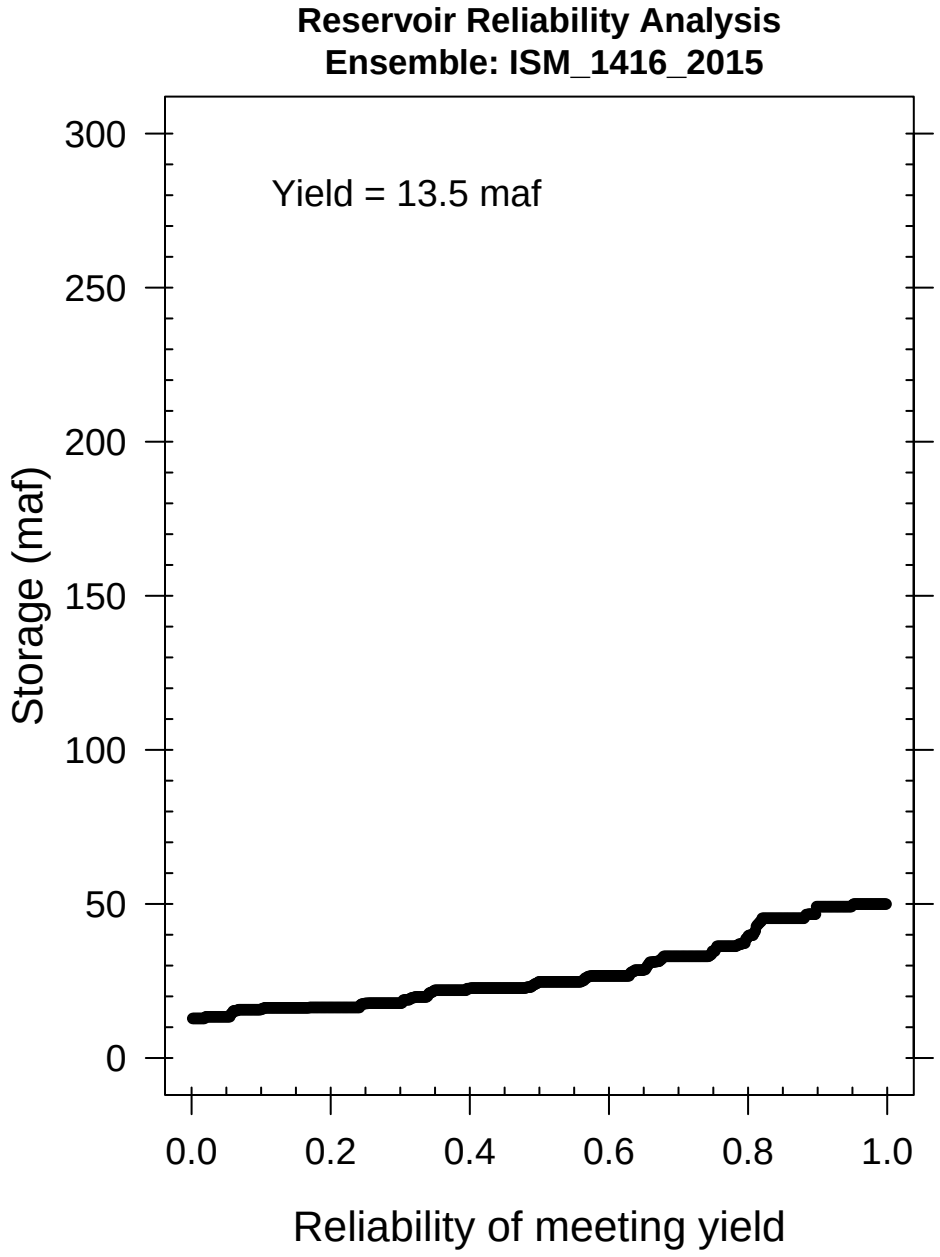

Reservoir Storage−Yield Analysis
Ensemble: ISM_1931_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

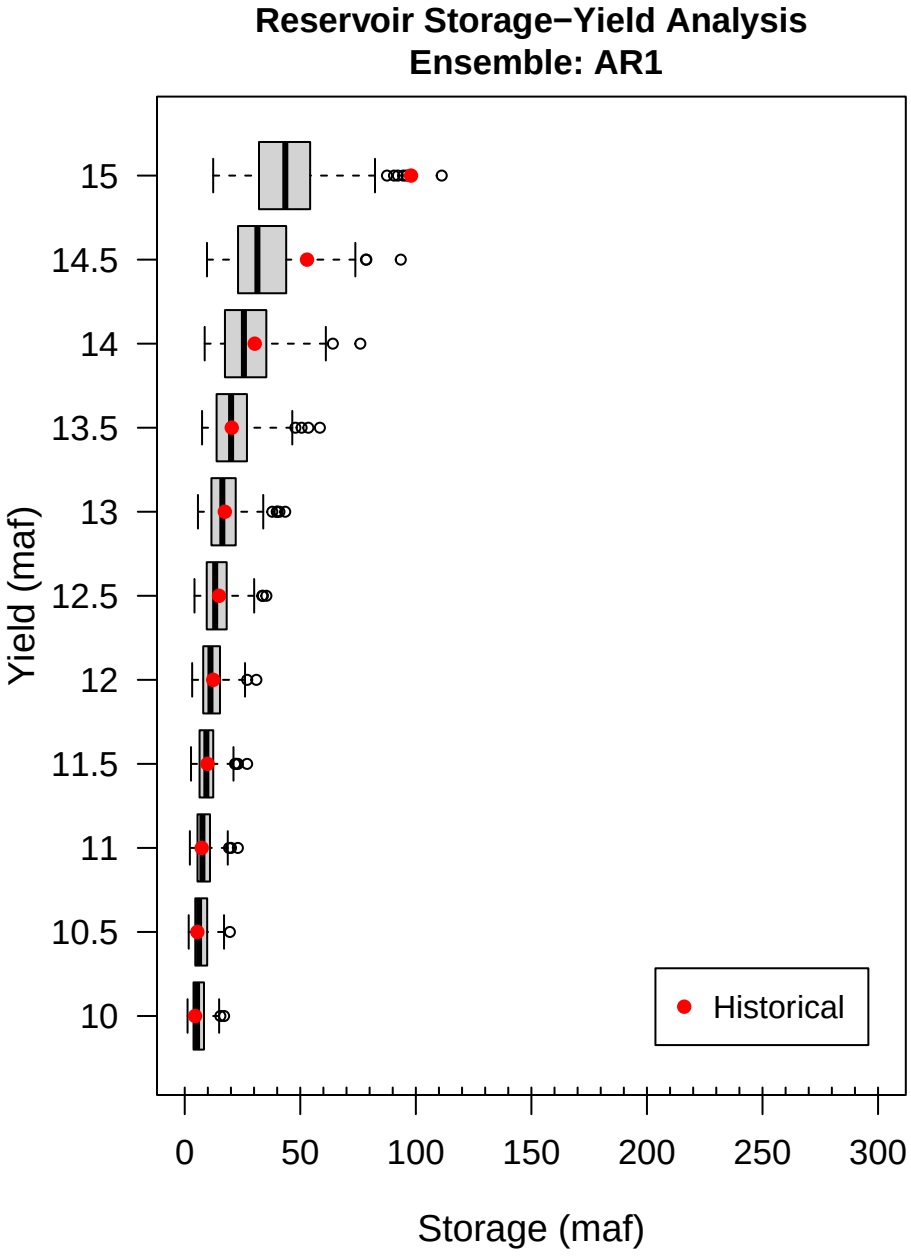

Reservoir Reliability Analysis
Ensemble: ISM_1931_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

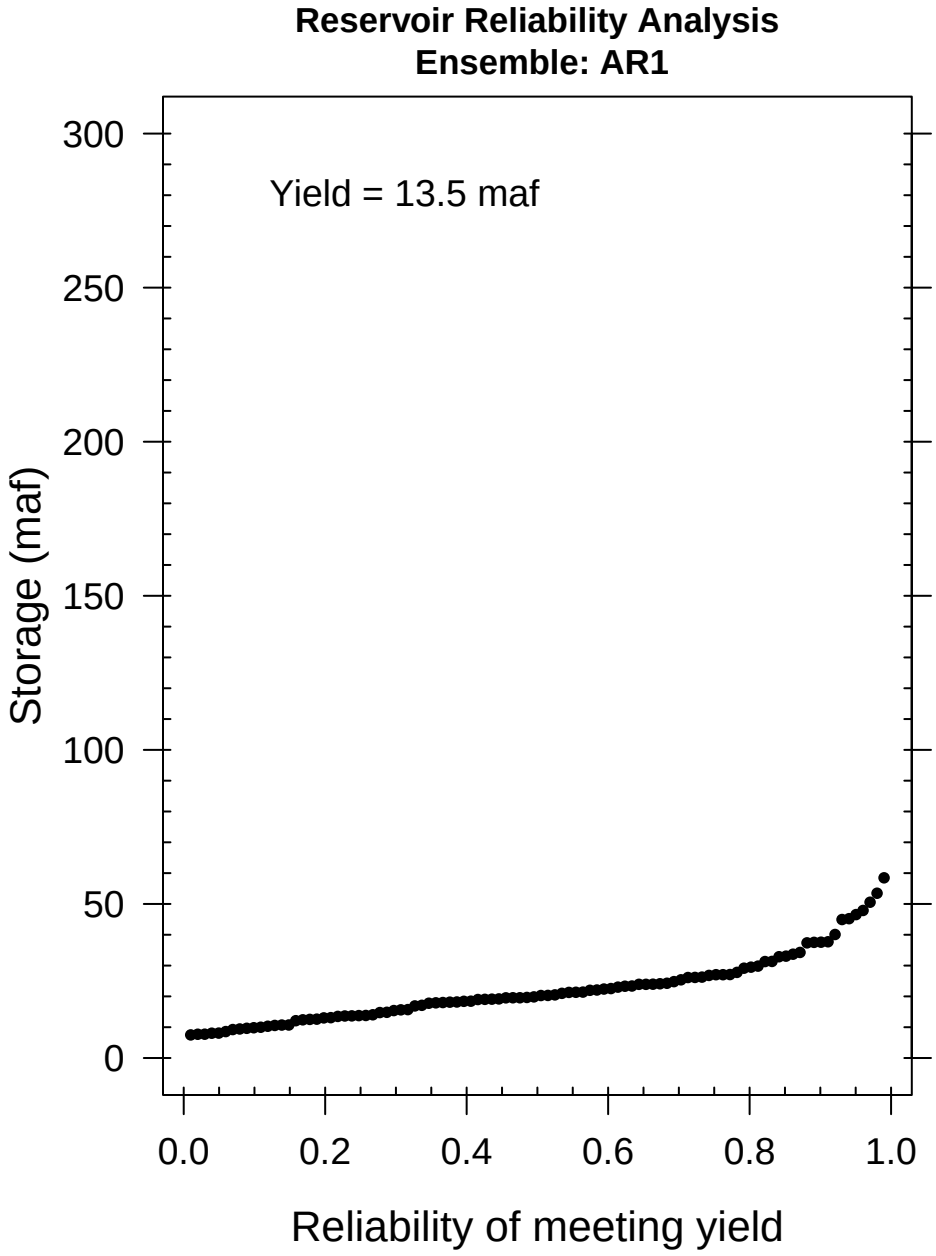

Reservoir Storage−Yield Analysis
Ensemble: ISM_1988_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

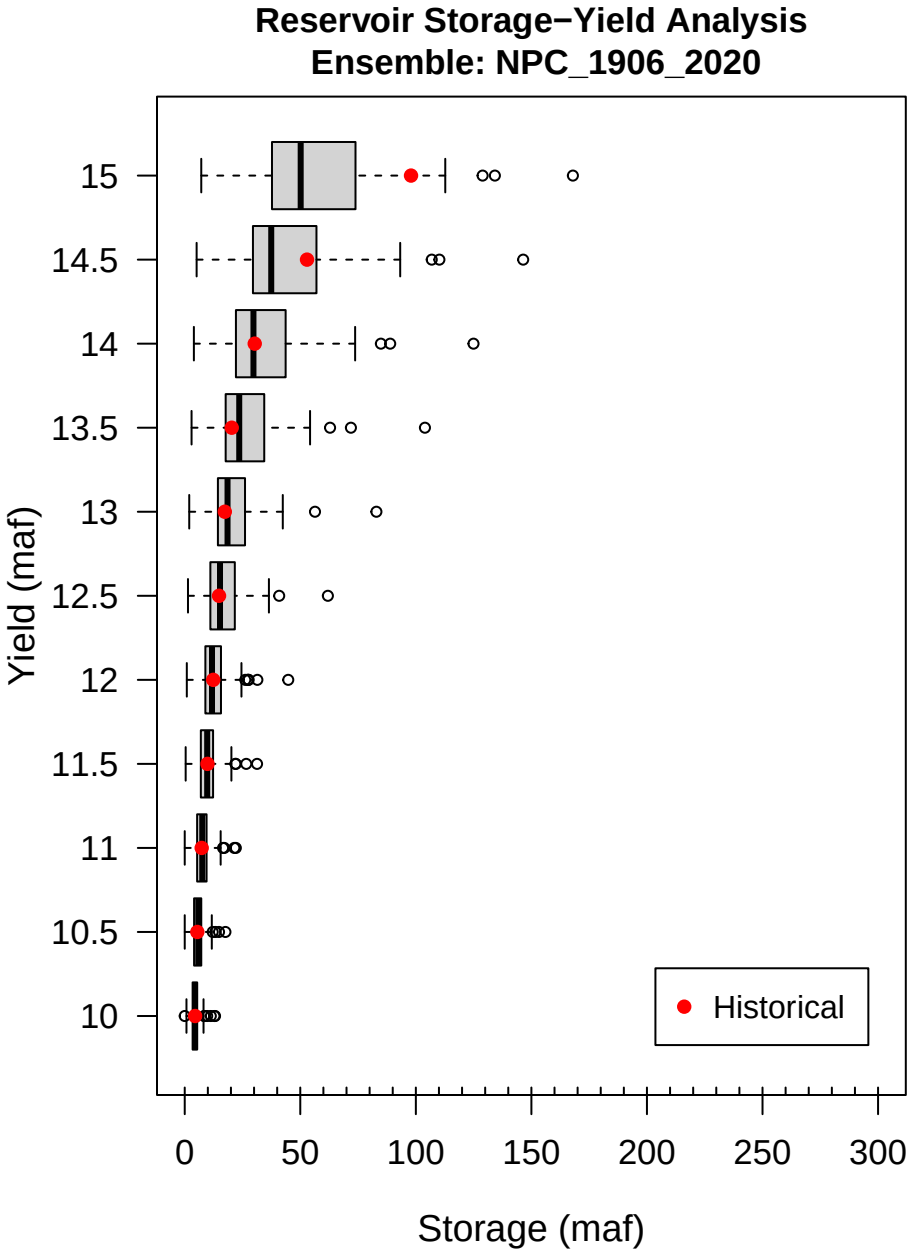

Reservoir Reliability Analysis
Ensemble: ISM_1988_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

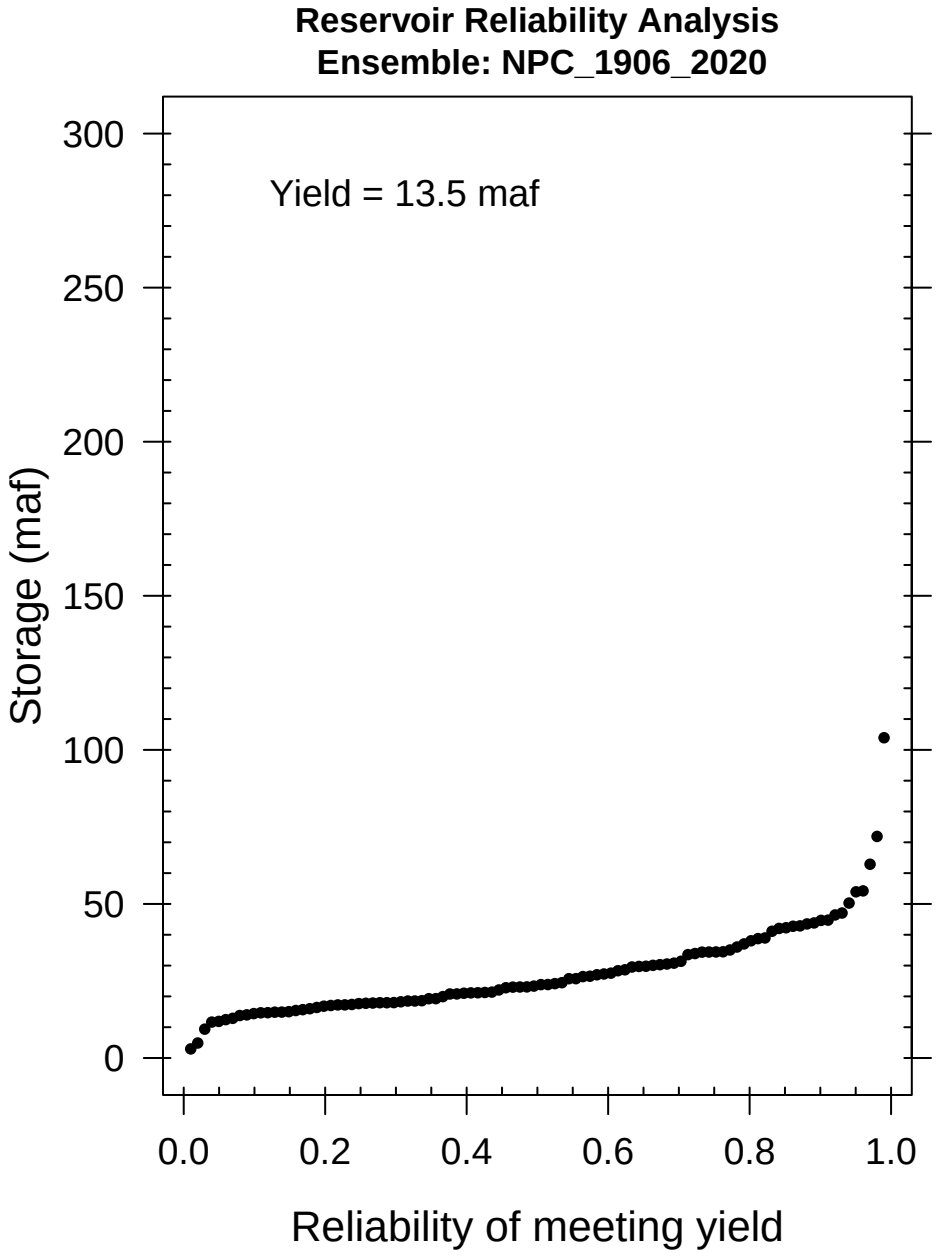

Reservoir Storage−Yield Analysis
Ensemble: ISM_1416_2015
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

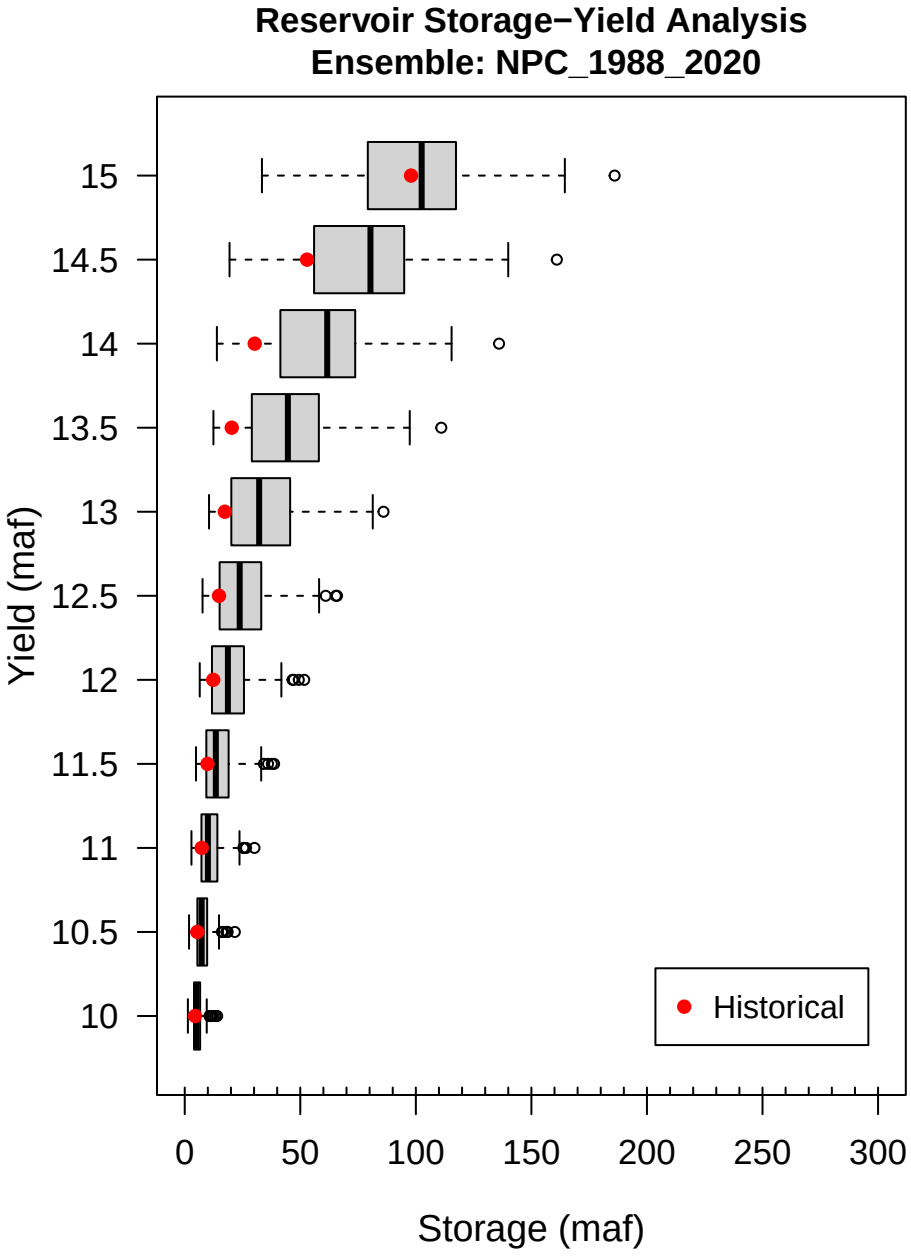

Reservoir Reliability Analysis
Ensemble: ISM_1416_2015
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

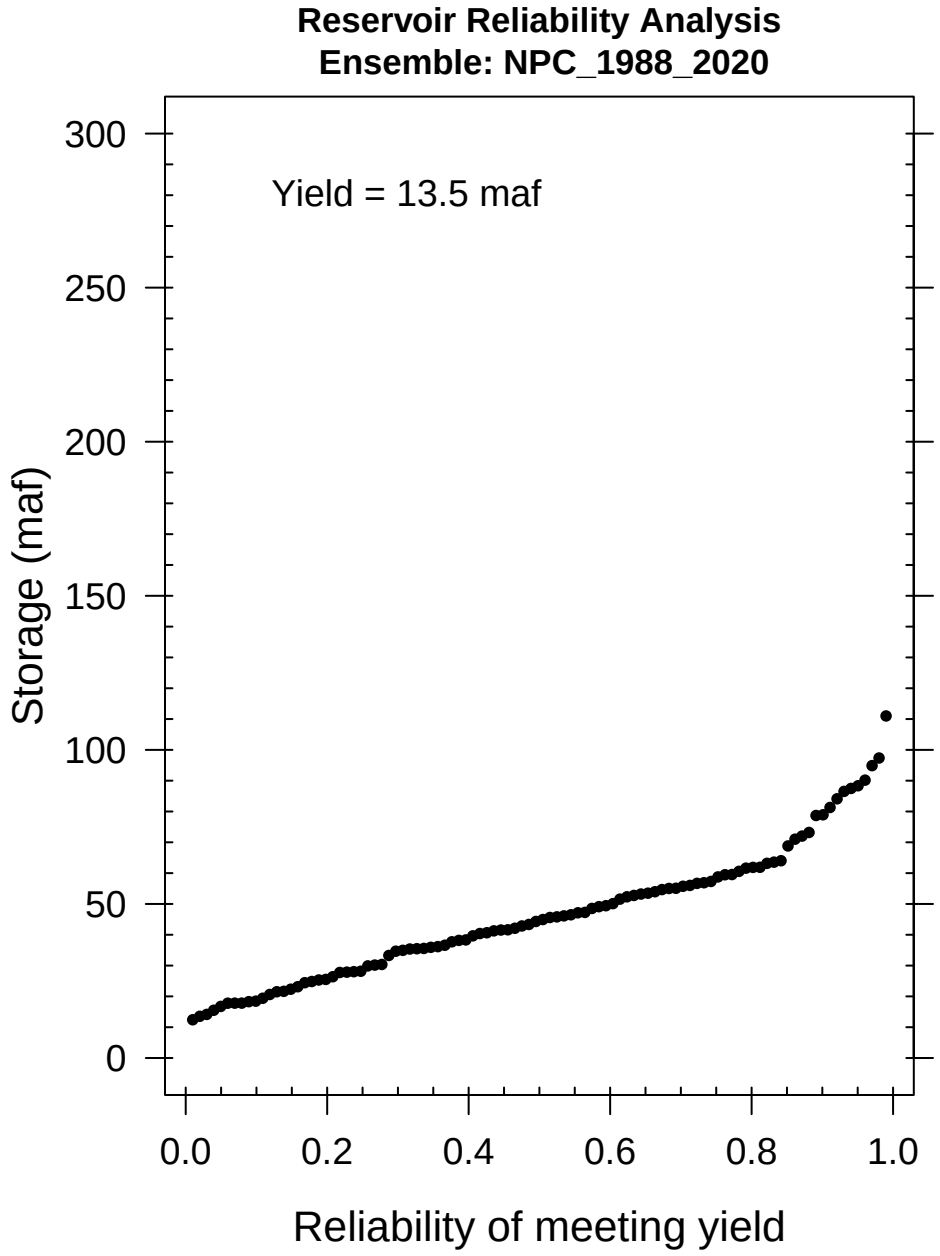

Reservoir Storage−Yield Analysis
Ensemble: AR1
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

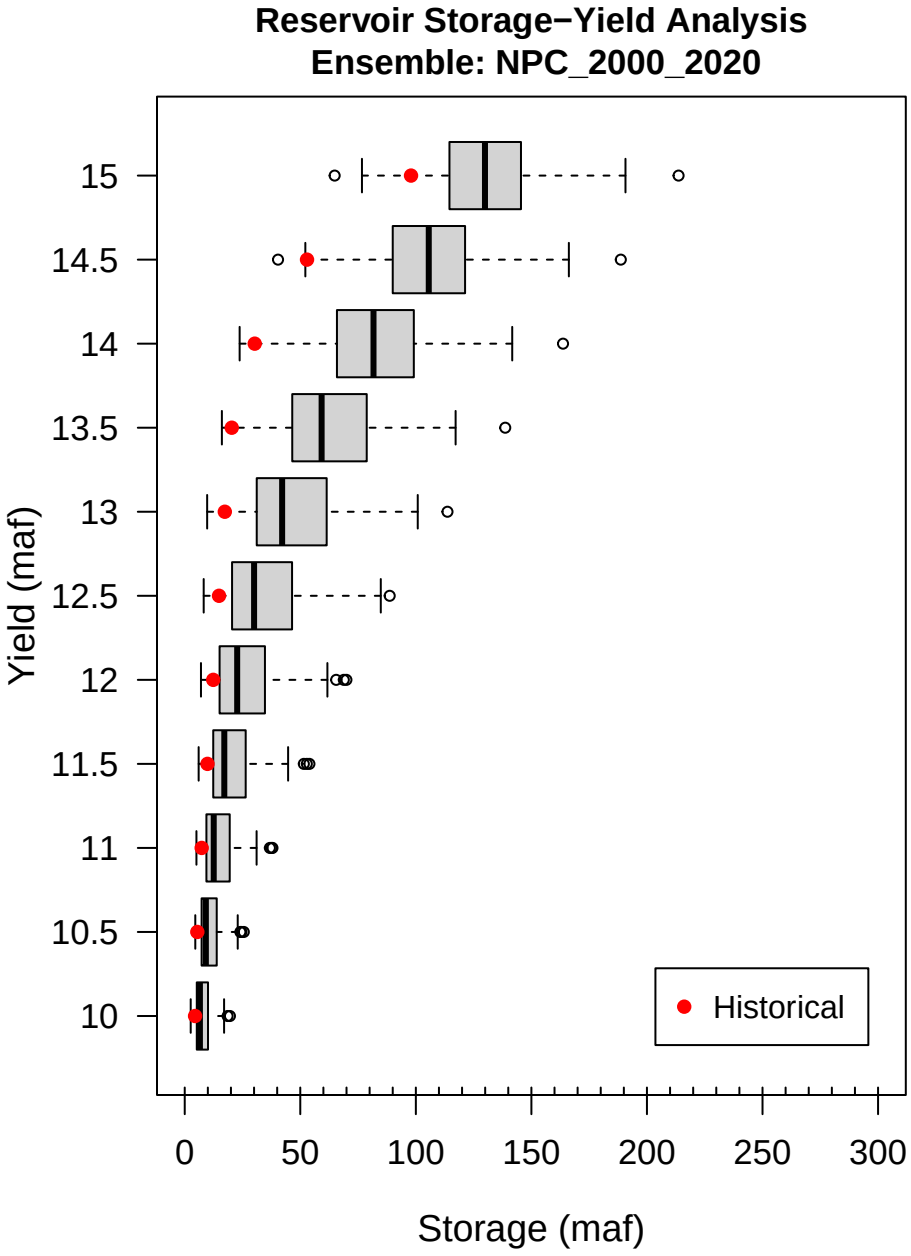

Reservoir Reliability Analysis
Ensemble: AR1
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

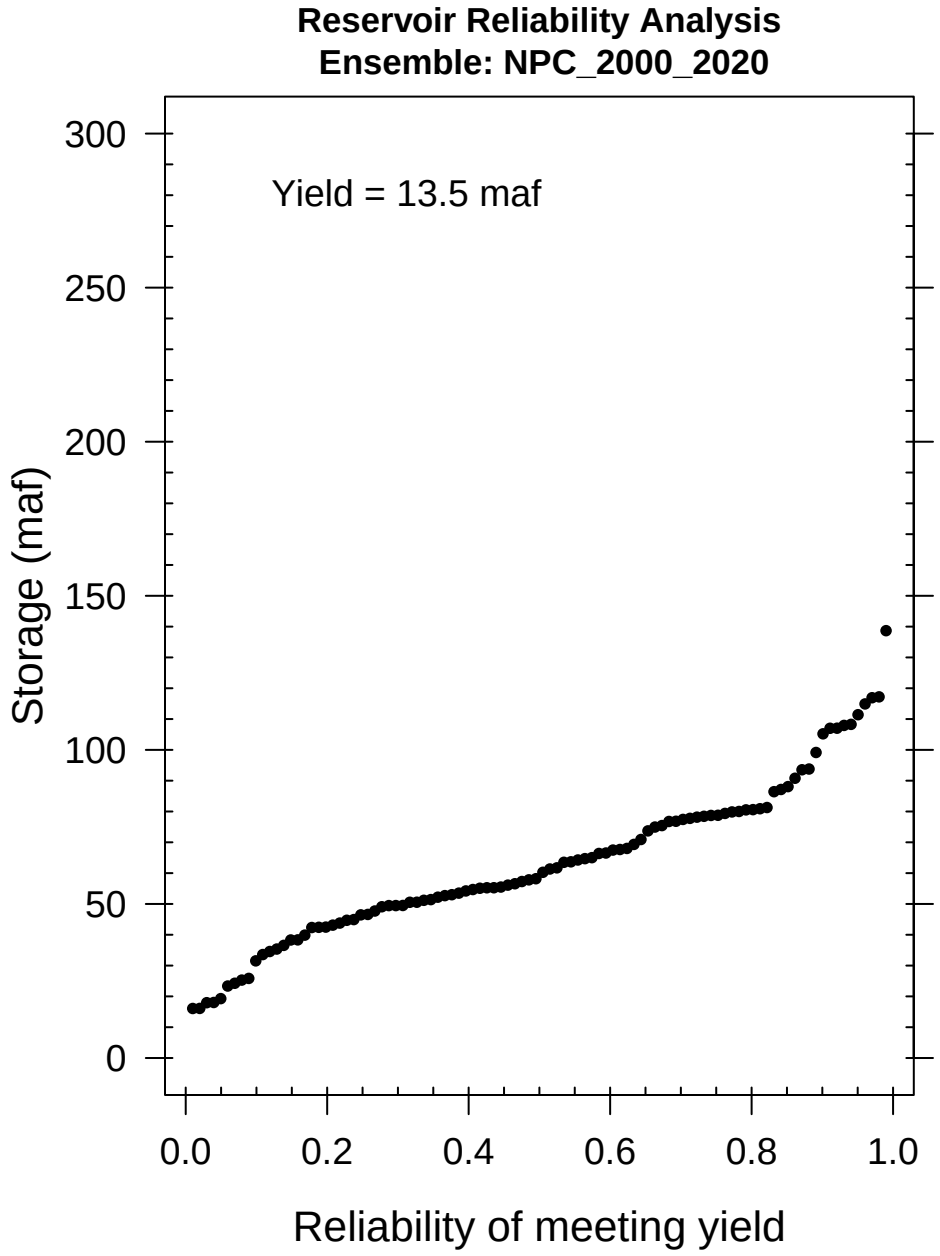

Reservoir Storage−Yield Analysis
Ensemble: NPC_1906_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

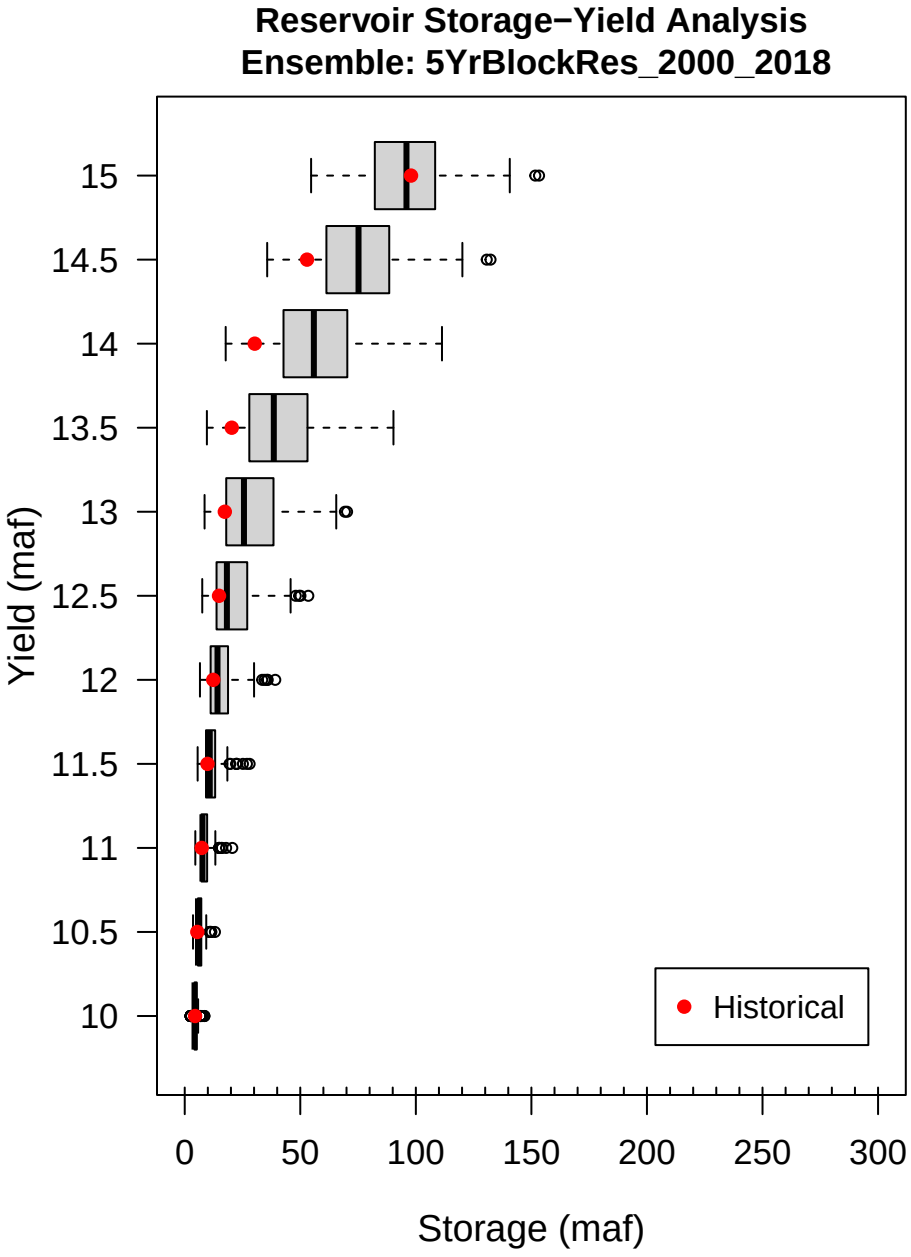

Reservoir Reliability Analysis
Ensemble: NPC_1906_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

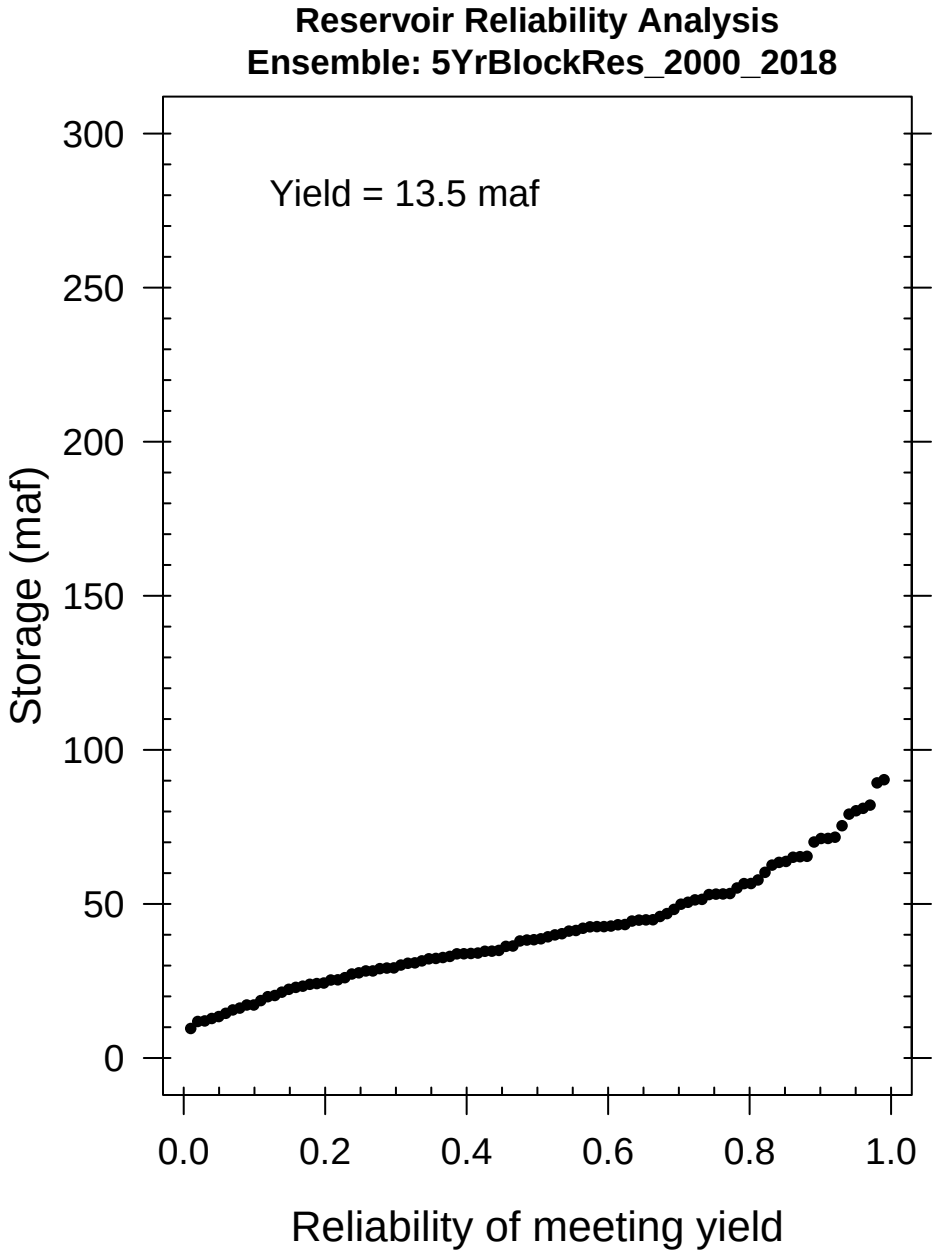

Reservoir Storage−Yield Analysis
Ensemble: NPC_1988_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

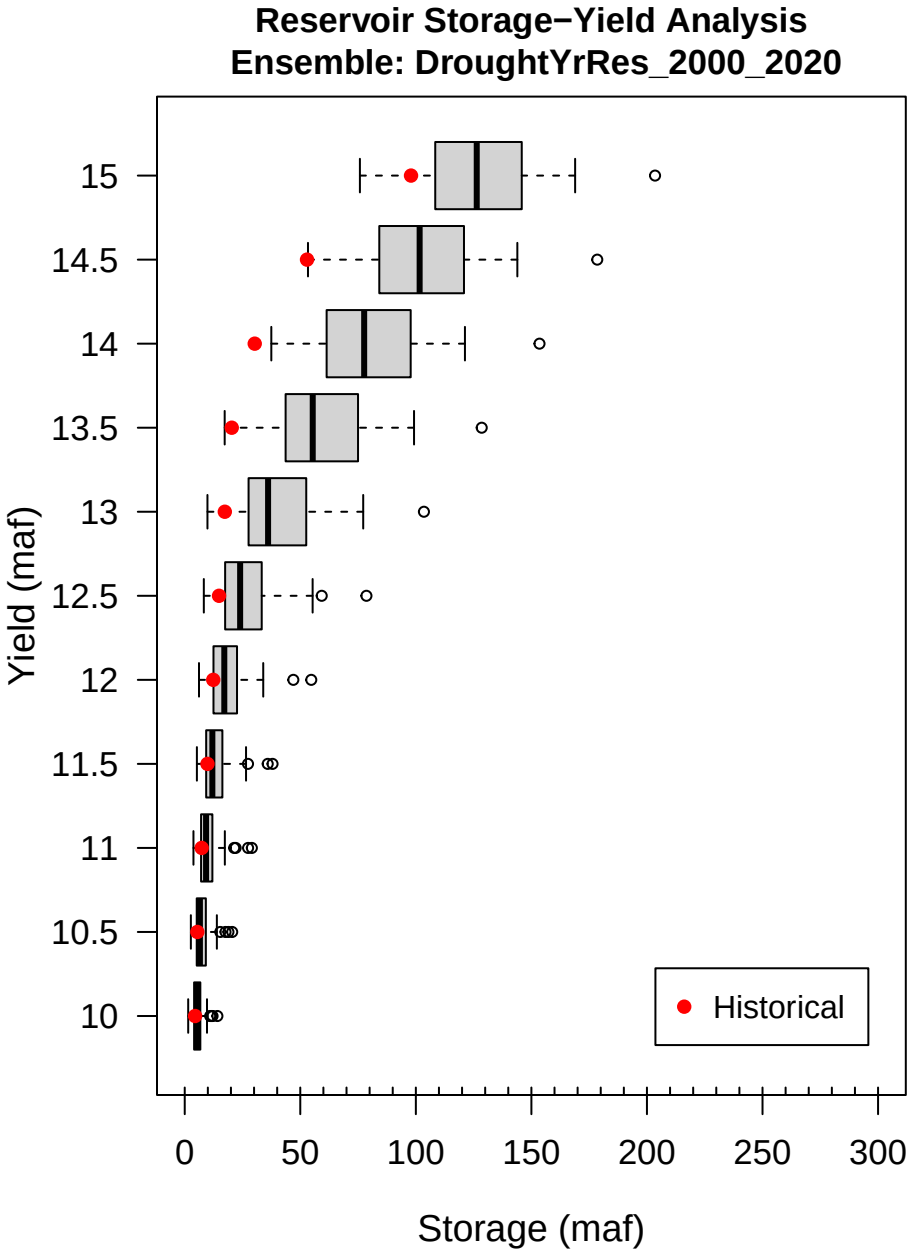

Reservoir Reliability Analysis
Ensemble: NPC_1988_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

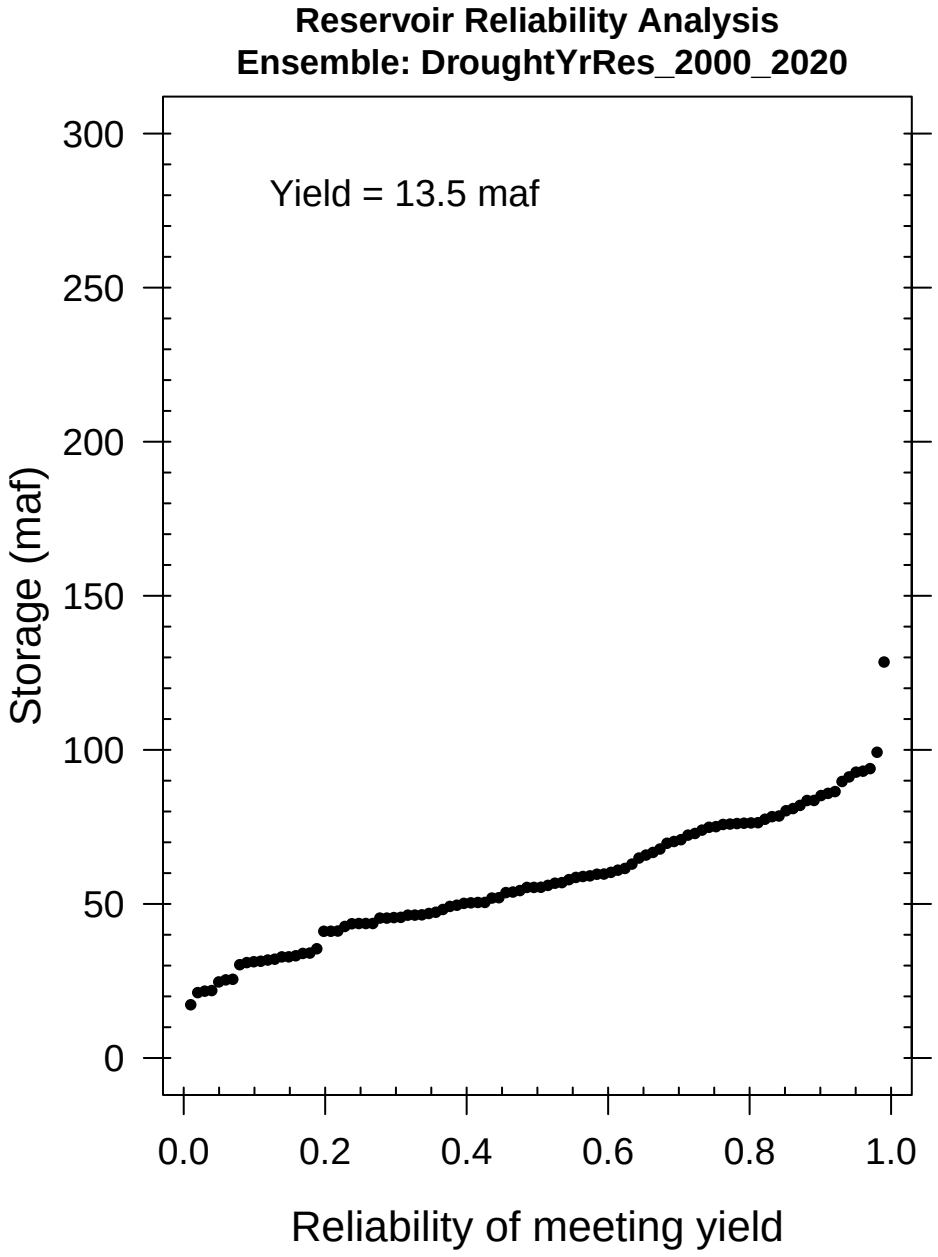

Reservoir Storage−Yield Analysis
Ensemble: NPC_2000_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

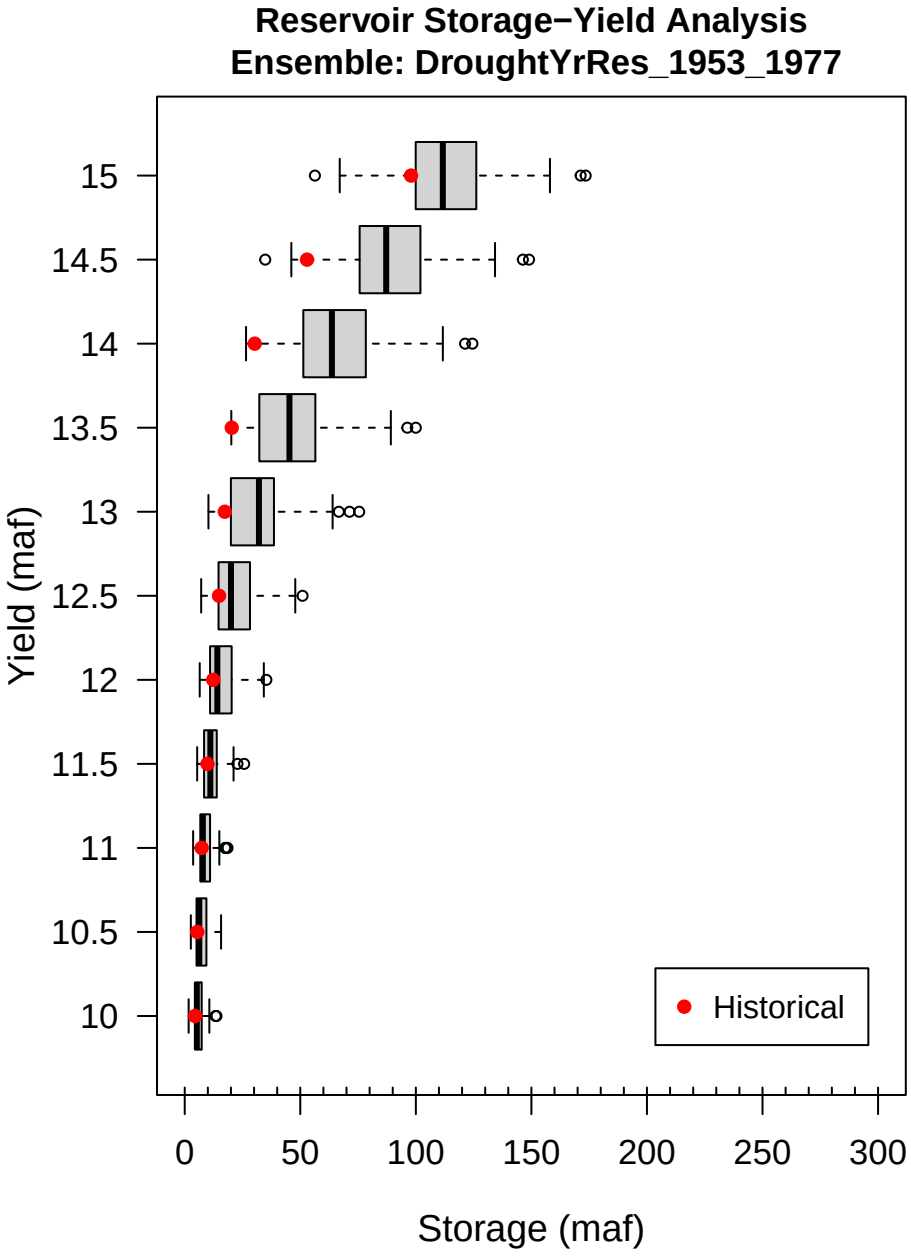

Reservoir Reliability Analysis
Ensemble: NPC_2000_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

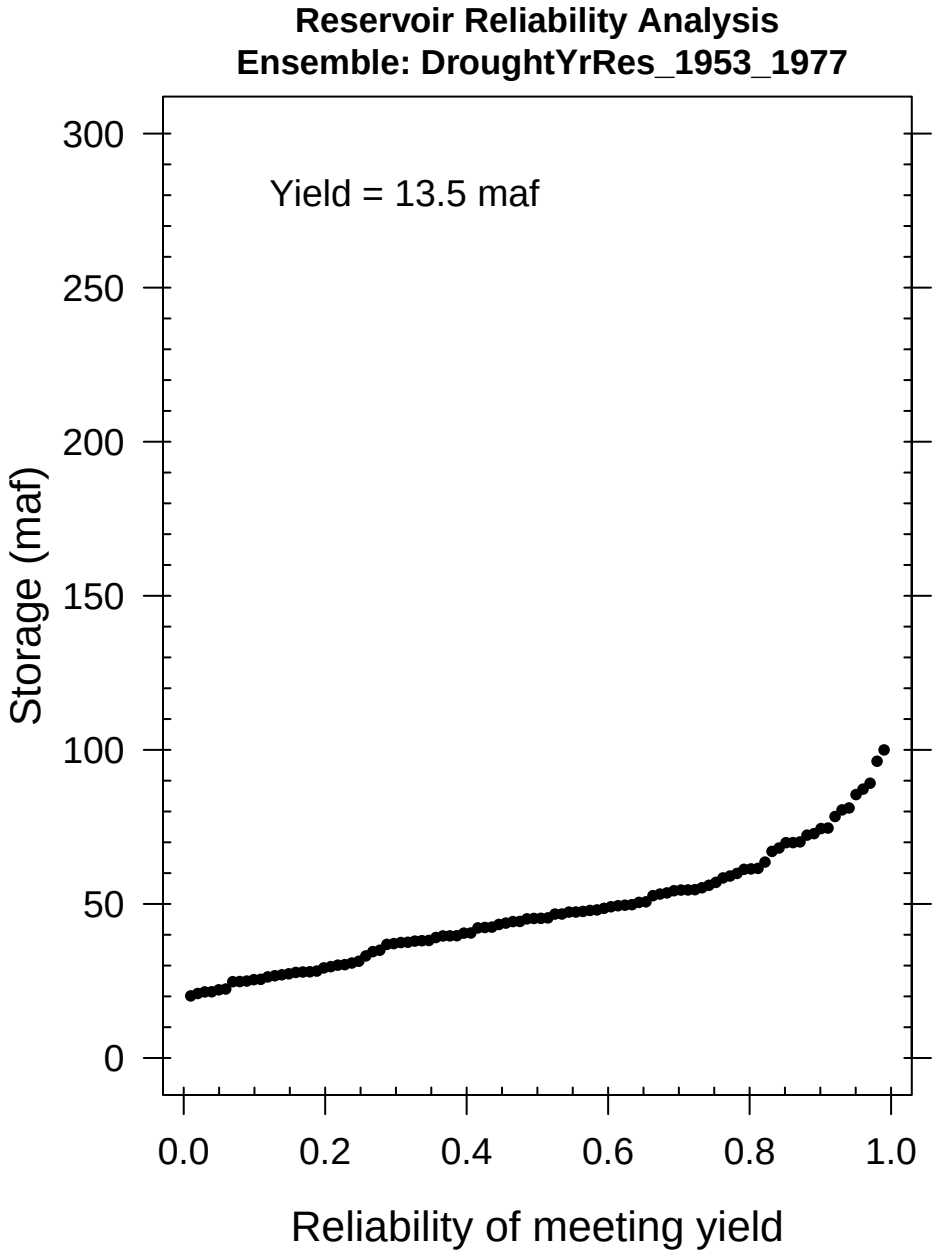

Reservoir Storage−Yield Analysis
Ensemble: 5YrBlockRes_2000_2018
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

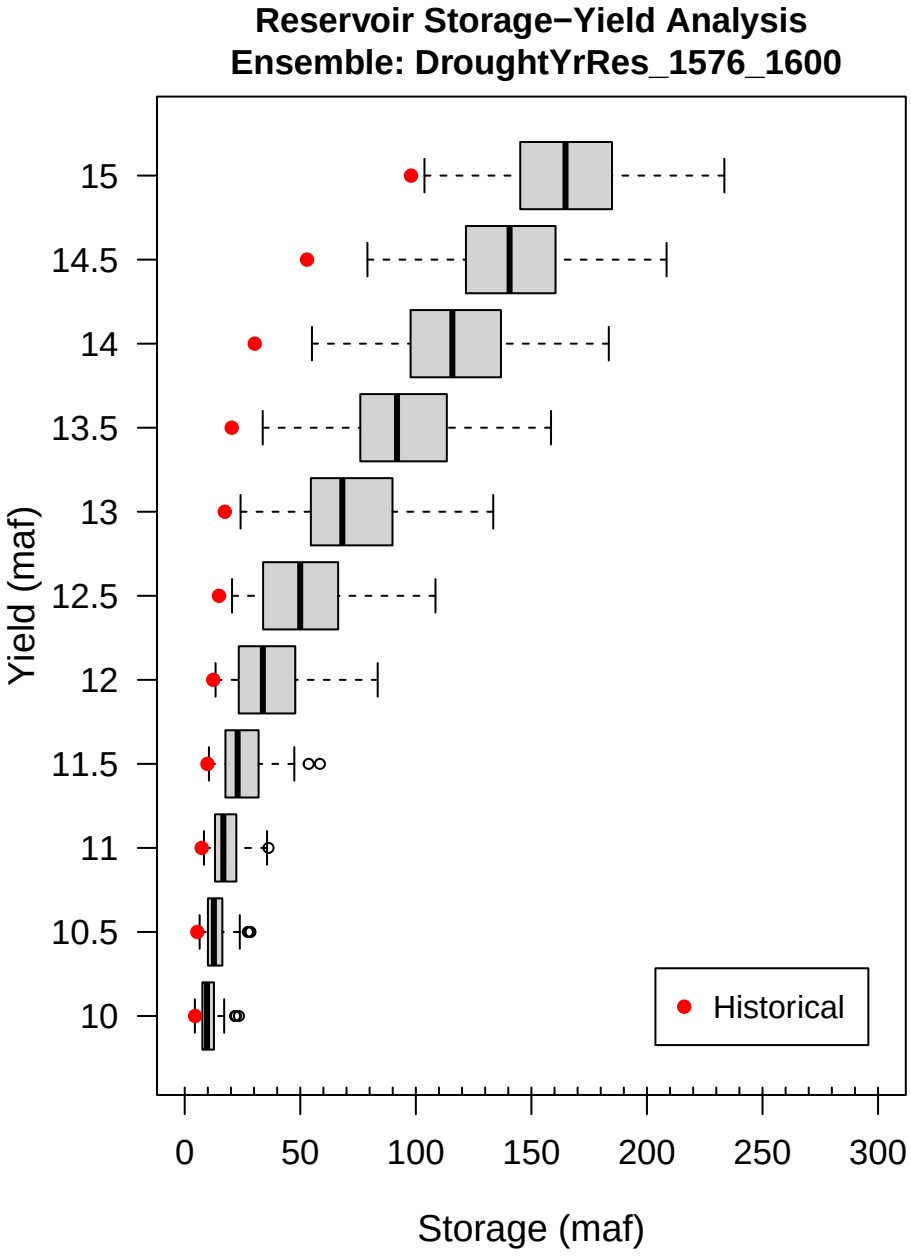

Reservoir Reliability Analysis
Ensemble: 5YrBlockRes_2000_2018
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

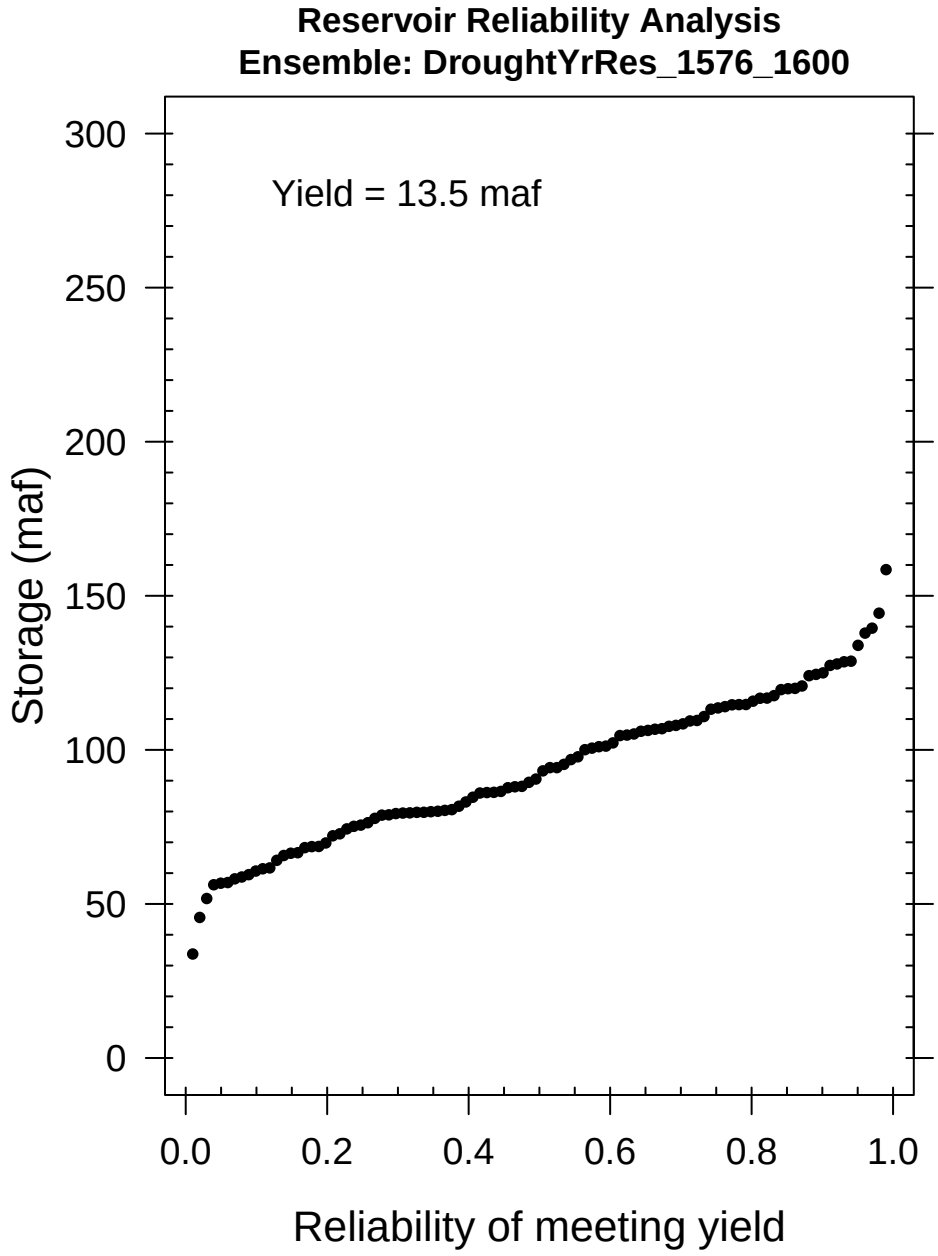

Reservoir Storage−Yield Analysis
Ensemble: DroughtYrRes_2000_2020
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

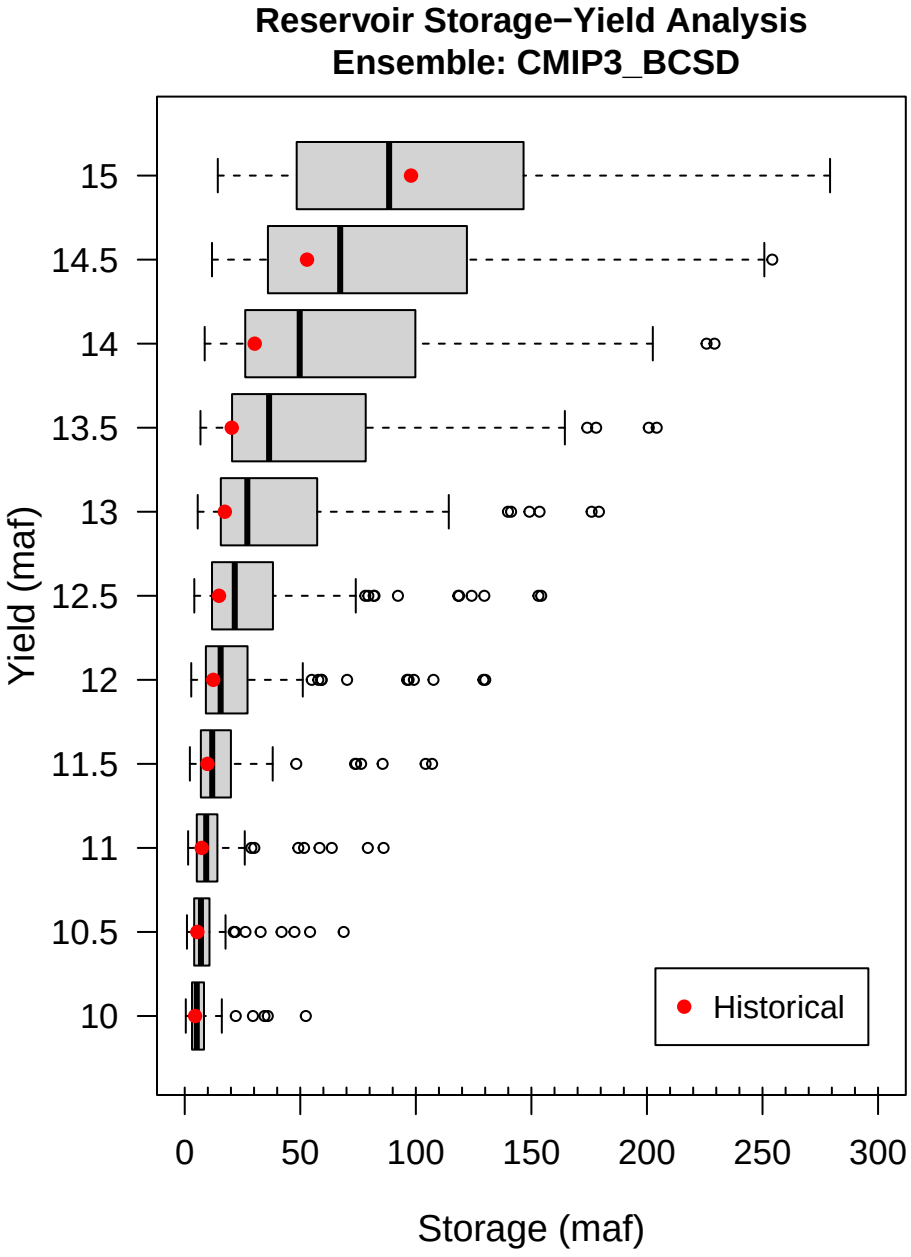

Reservoir Reliability Analysis
Ensemble: DroughtYrRes_2000_2020
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

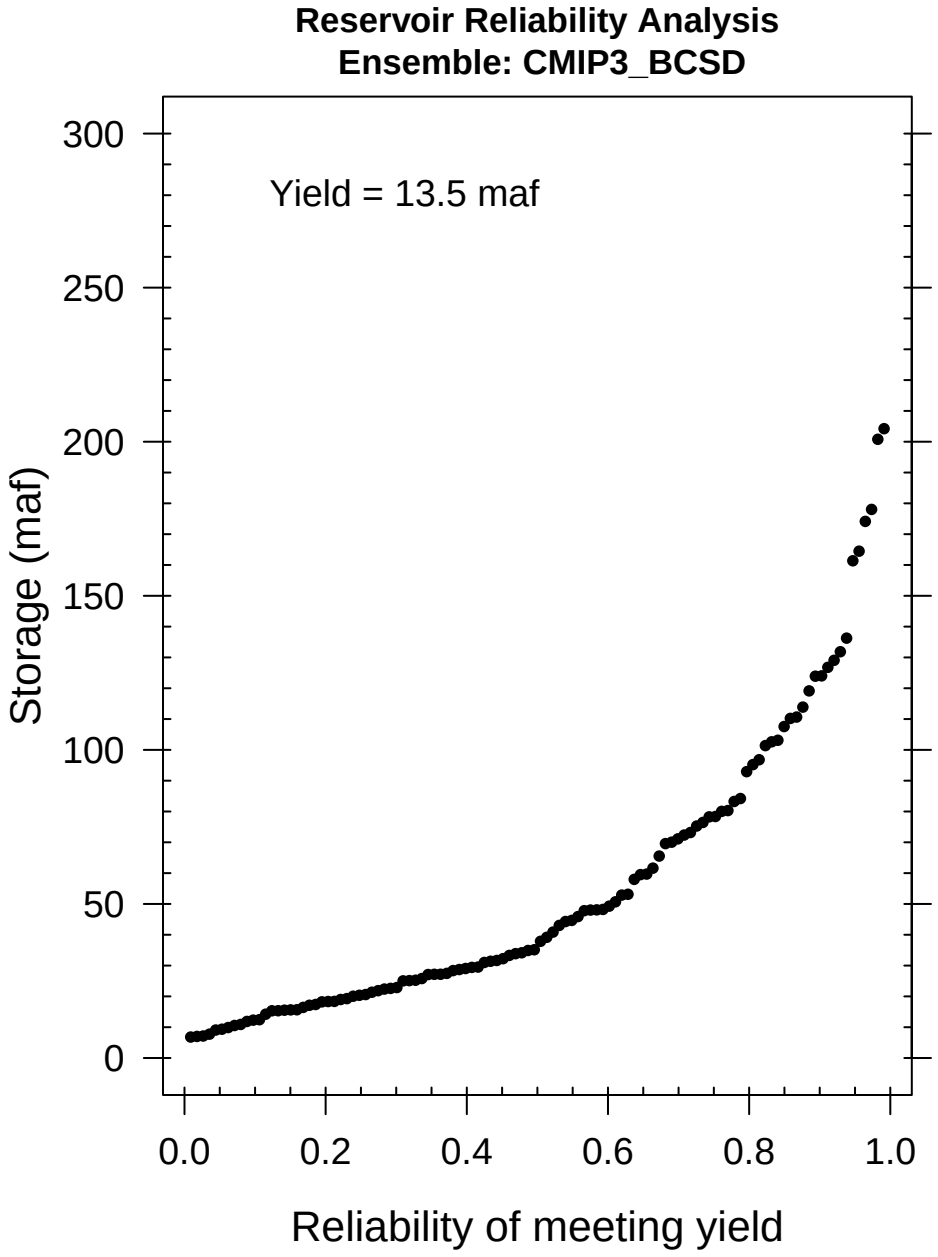

Reservoir Storage−Yield Analysis
Ensemble: DroughtYrRes_1953_1977
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

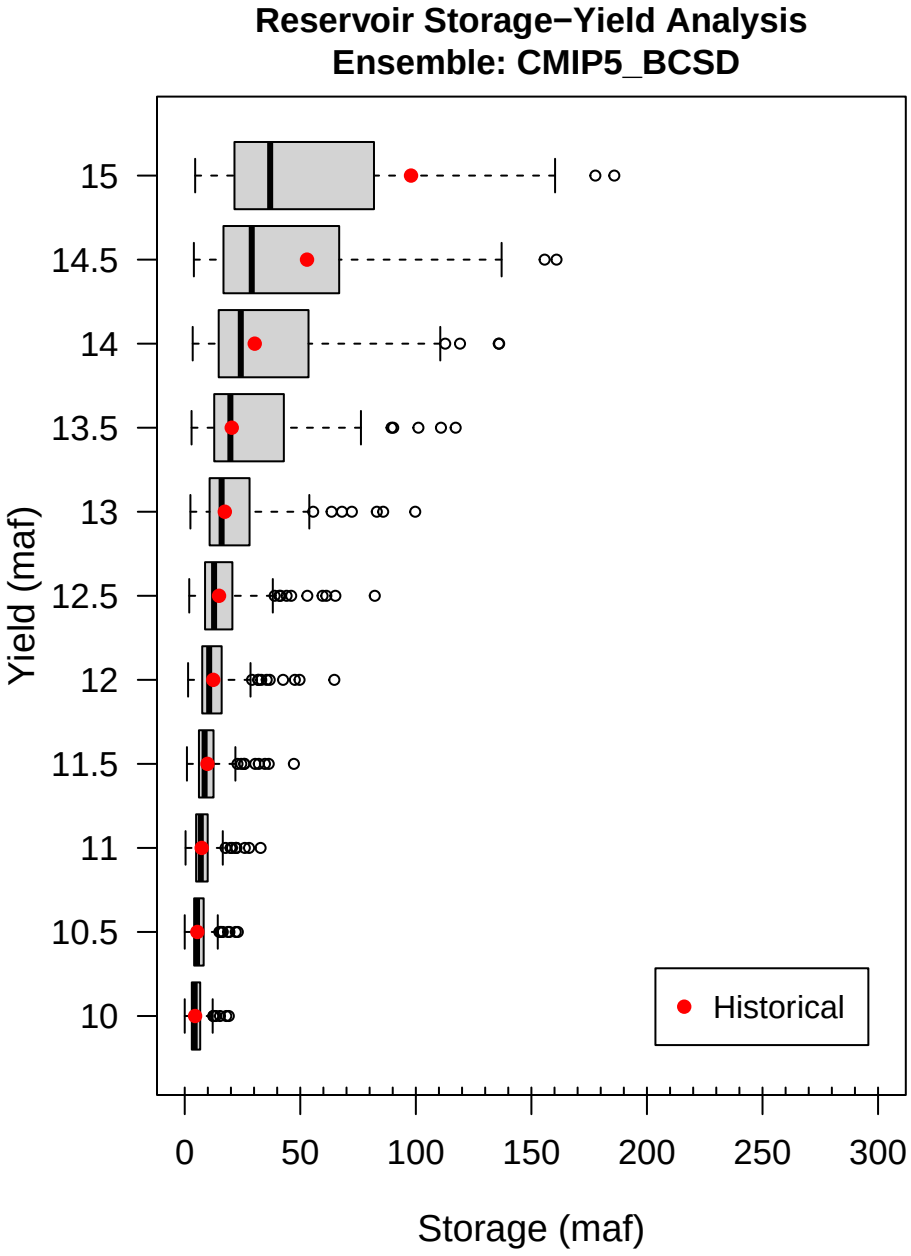

Reservoir Reliability Analysis
Ensemble: DroughtYrRes_1953_1977
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

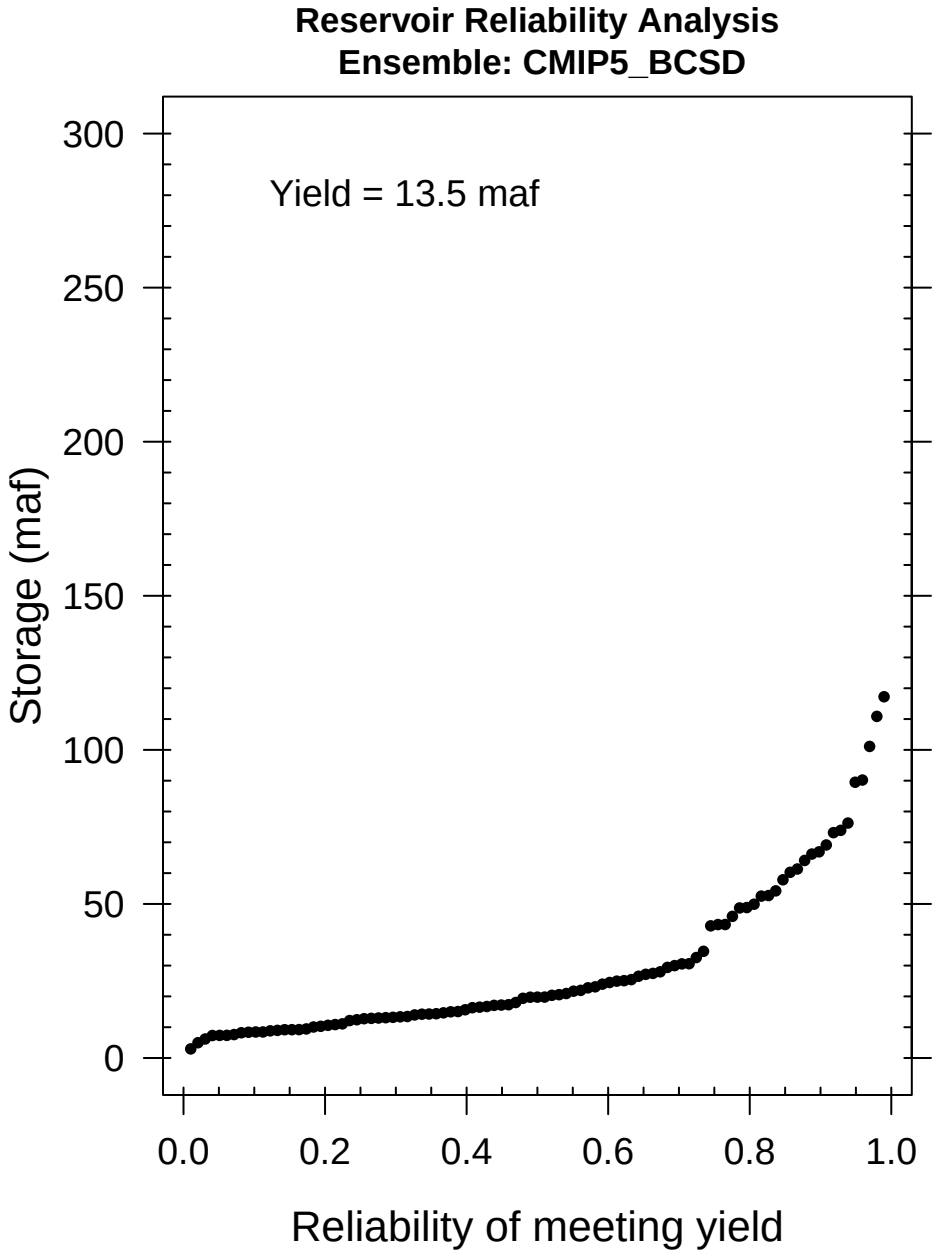

Reservoir Storage−Yield Analysis
Ensemble: DroughtYrRes_1576_1600
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

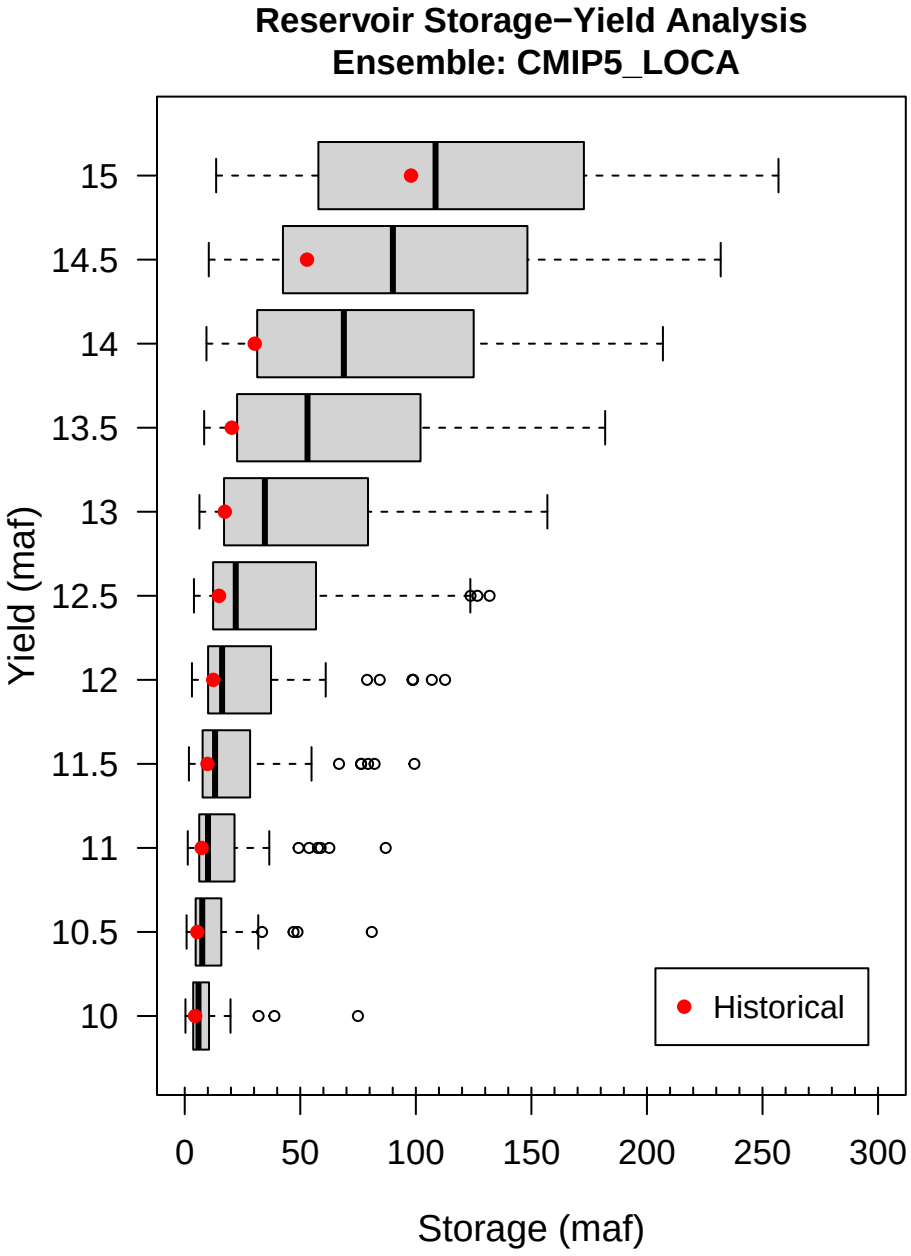

Reservoir Reliability Analysis
Ensemble: DroughtYrRes_1576_1600
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

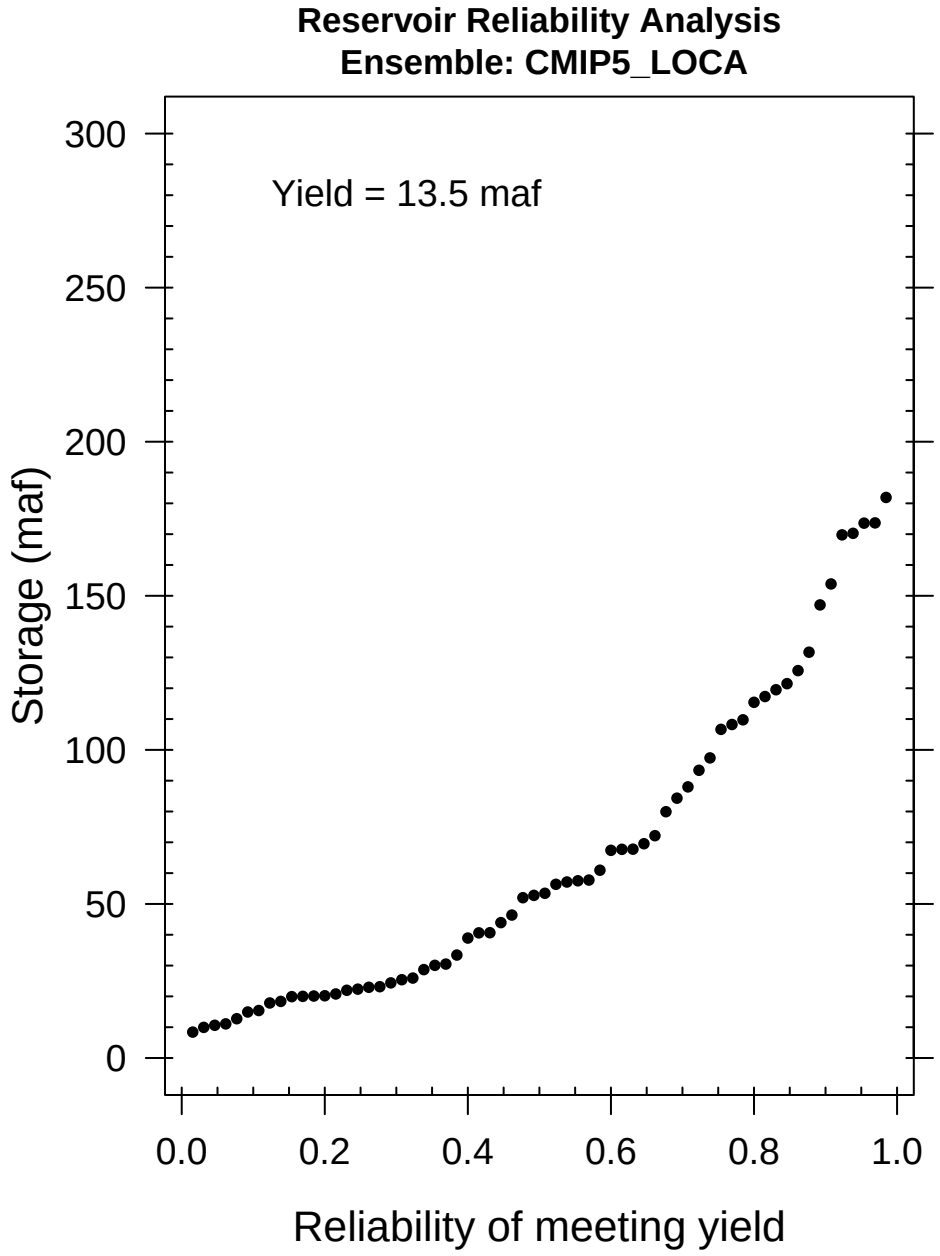

Reservoir Storage−Yield Analysis
Ensemble: CMIP3_BCSD
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

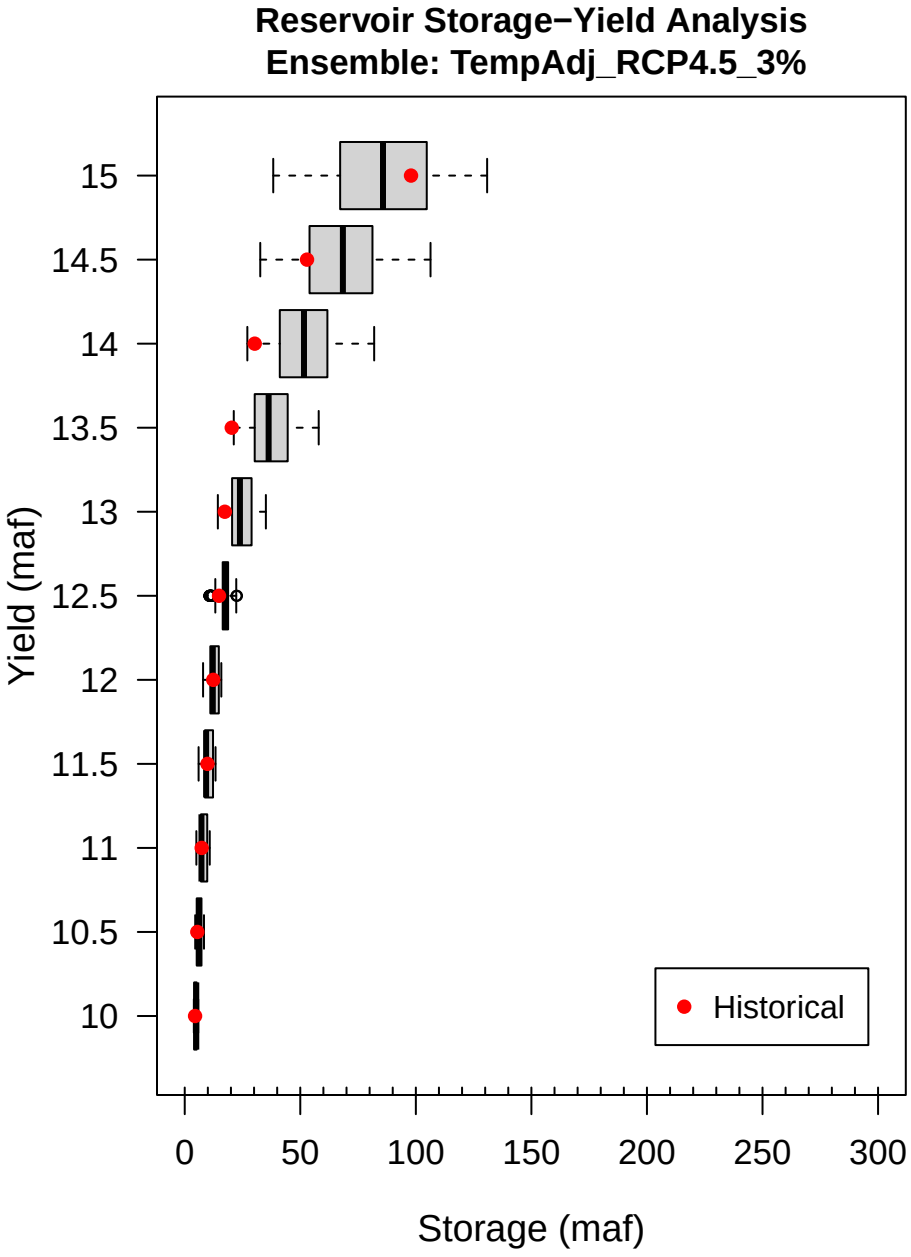

Reservoir Reliability Analysis
Ensemble: CMIP3_BCSD
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

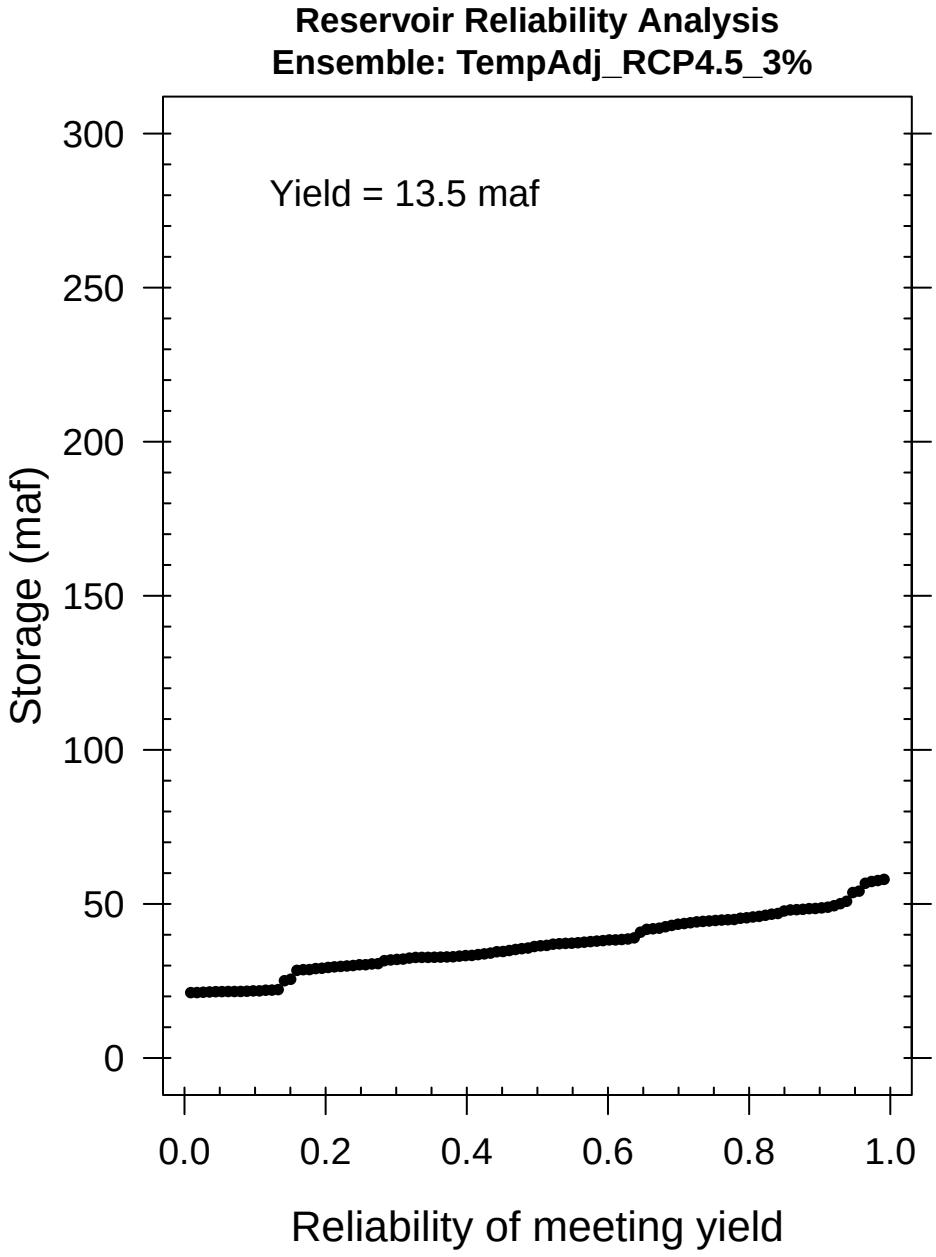

Reservoir Storage−Yield Analysis
Ensemble: CMIP5_BCSD
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

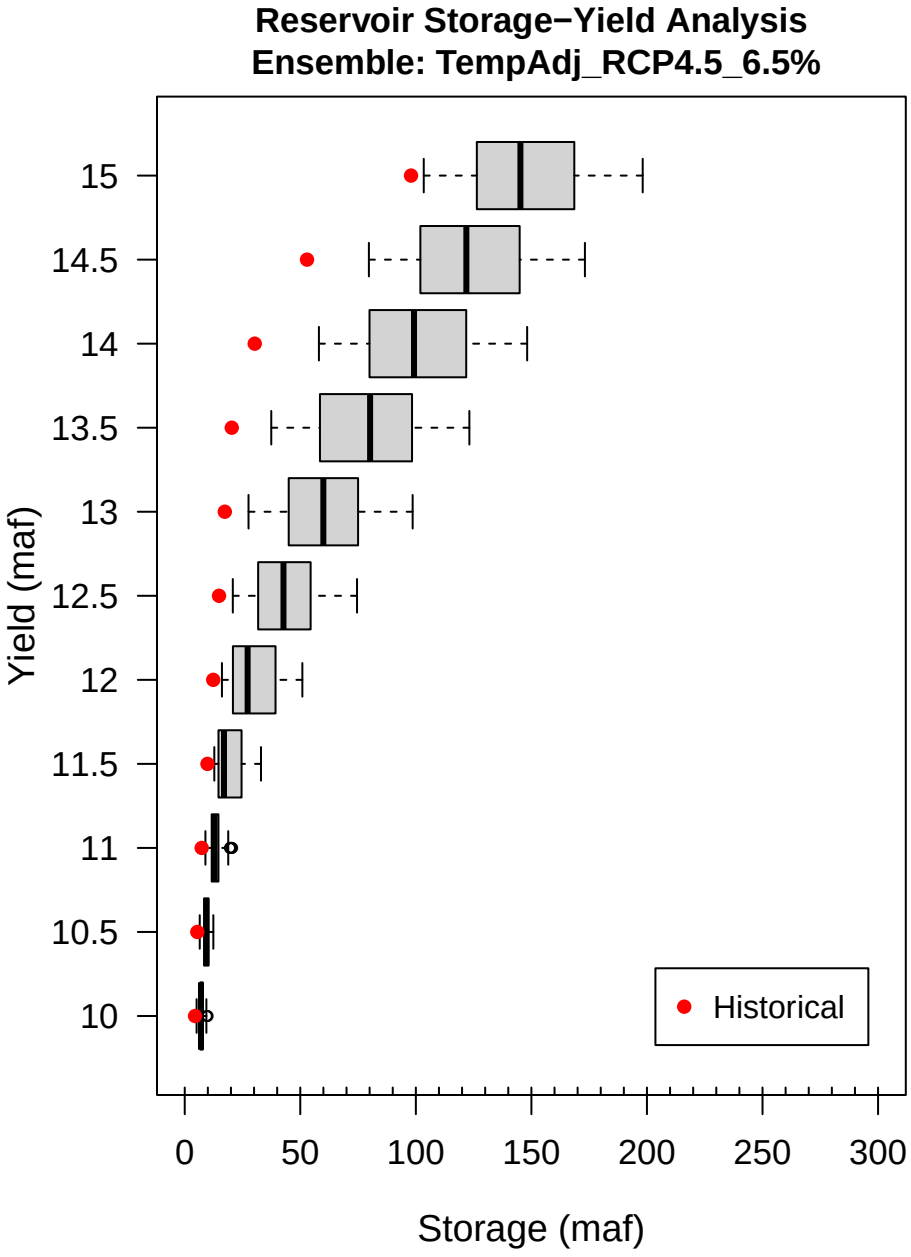

Reservoir Reliability Analysis
Ensemble: CMIP5_BCSD
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

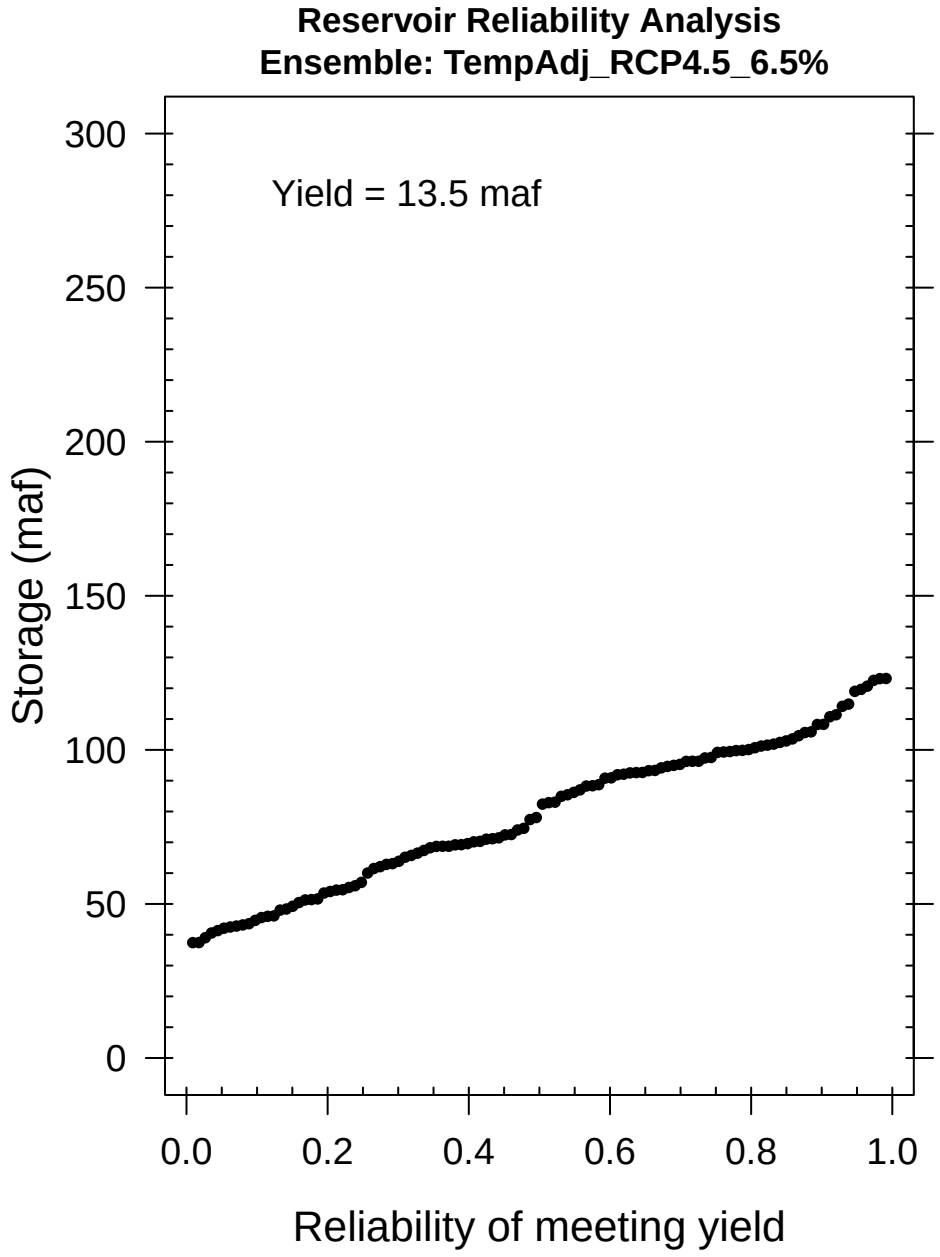

Reservoir Storage−Yield Analysis
Ensemble: CMIP5_LOCA
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

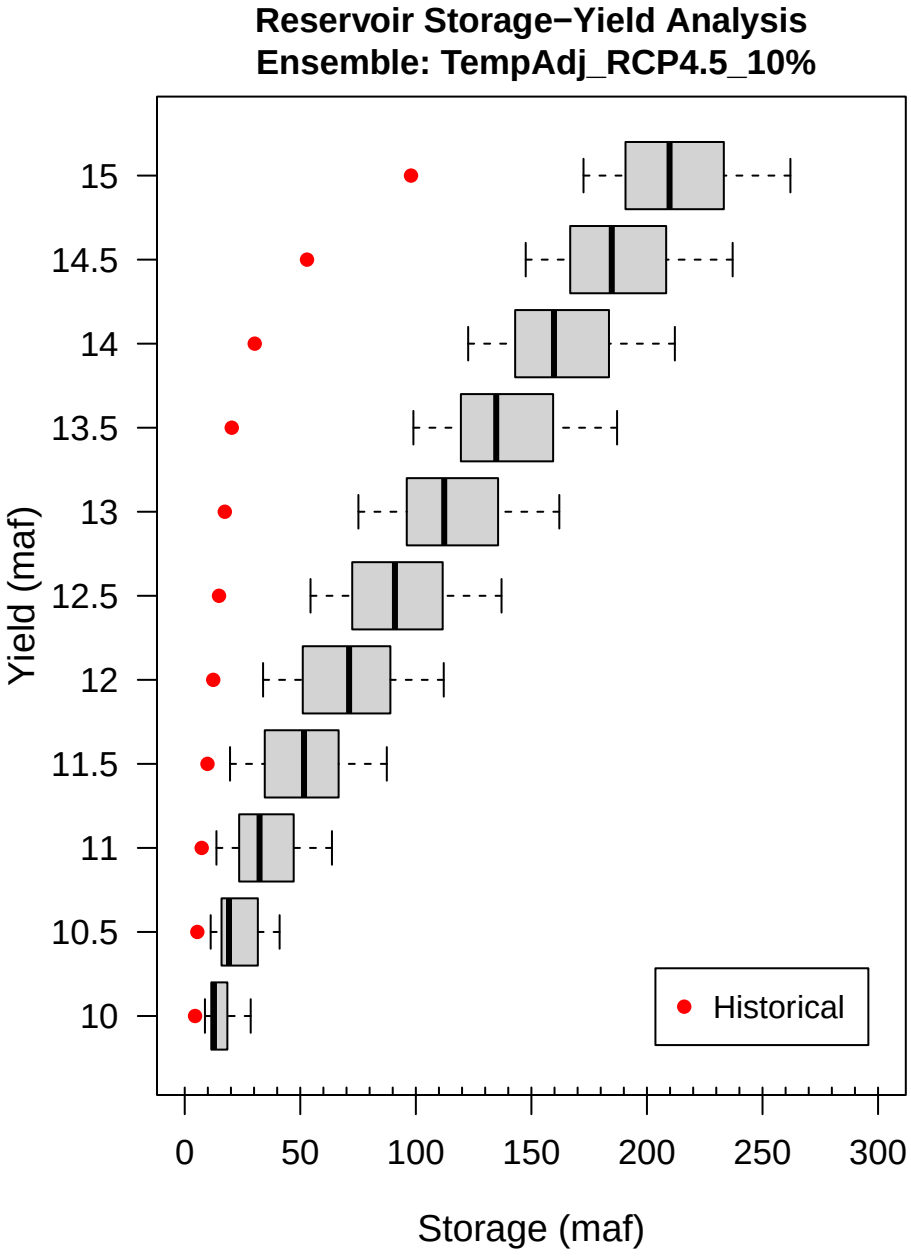

Reservoir Reliability Analysis
Ensemble: CMIP5_LOCA
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

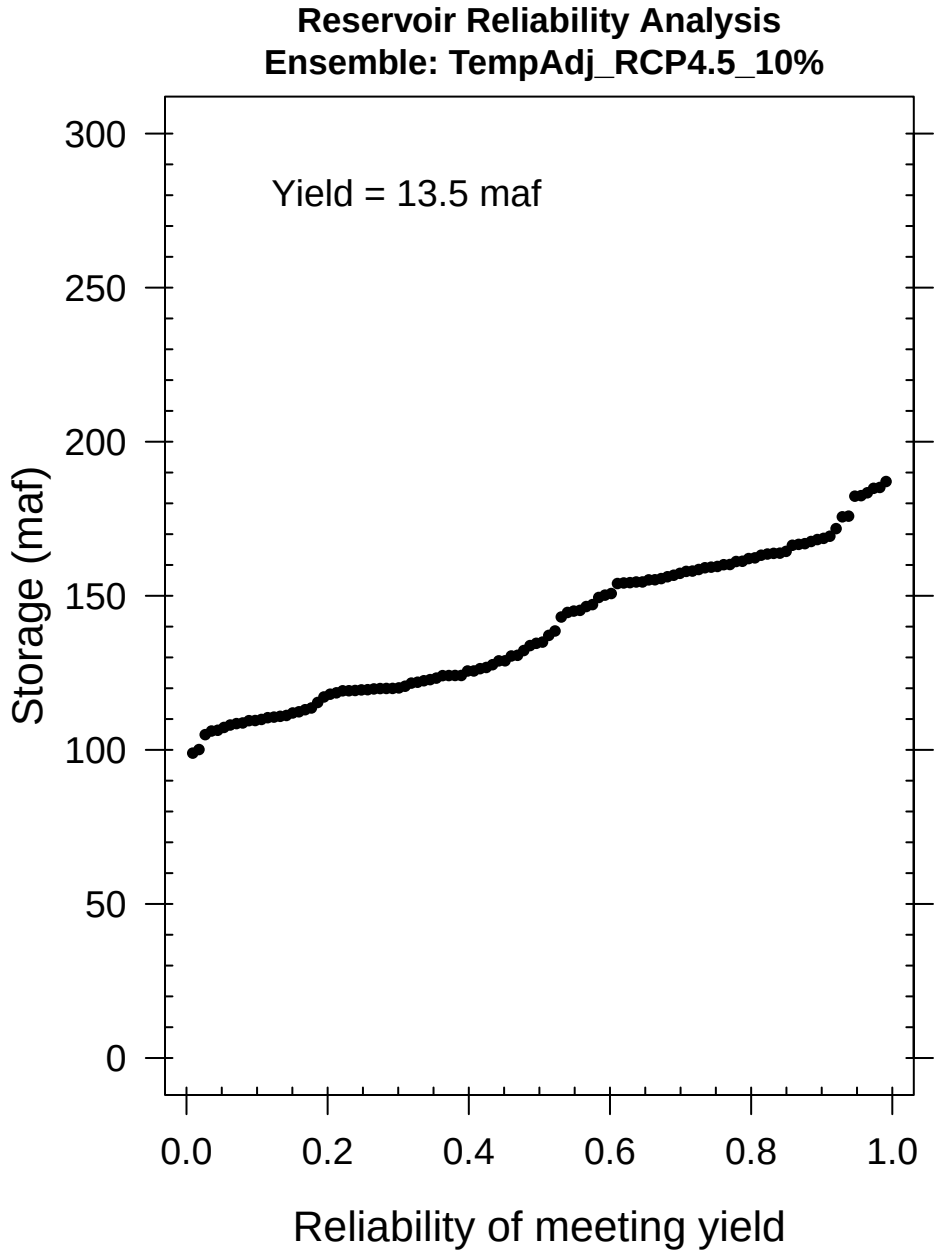

Reservoir Storage−Yield Analysis
Ensemble: TempAdj_RCP4.5_3%
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

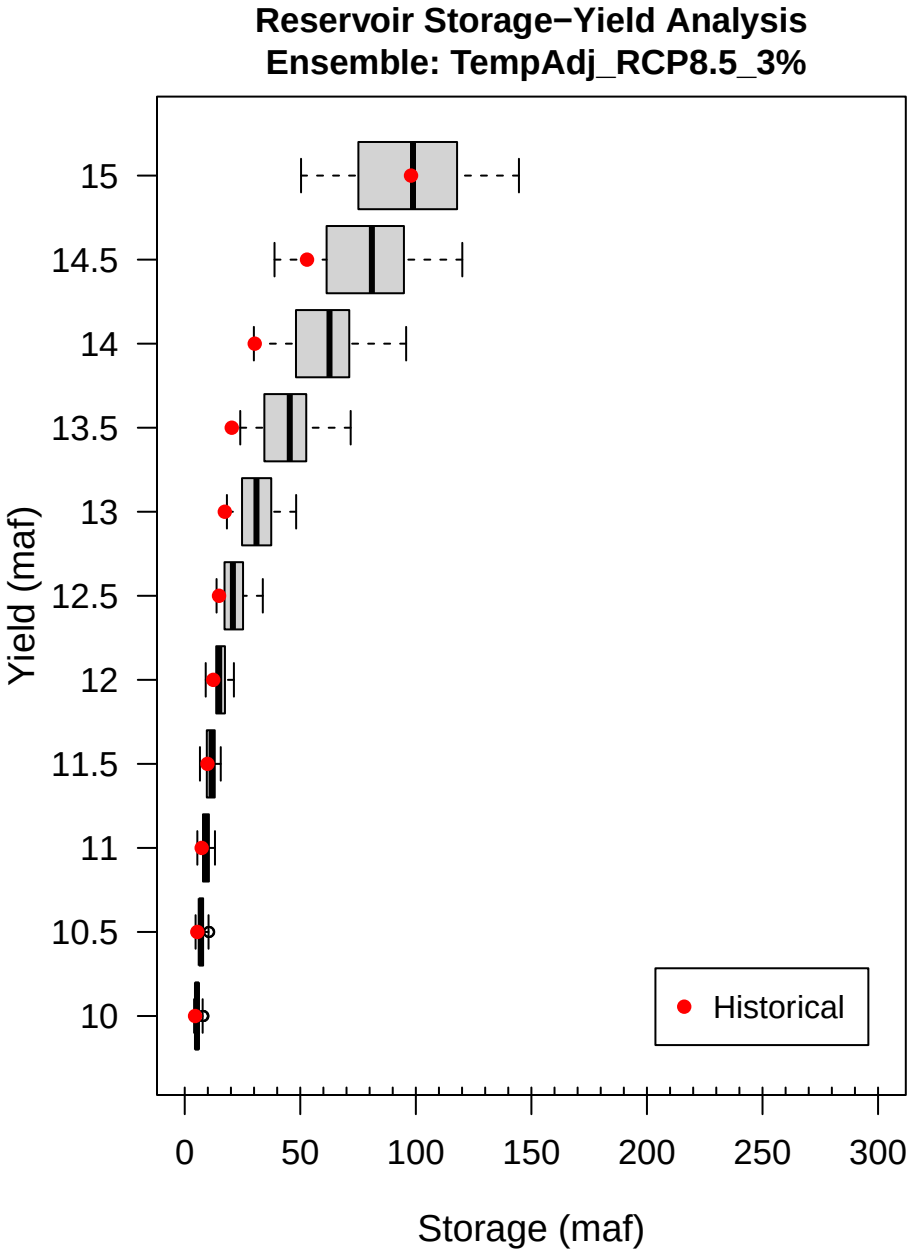

Reservoir Reliability Analysis
Ensemble: TempAdj_RCP4.5_3%
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

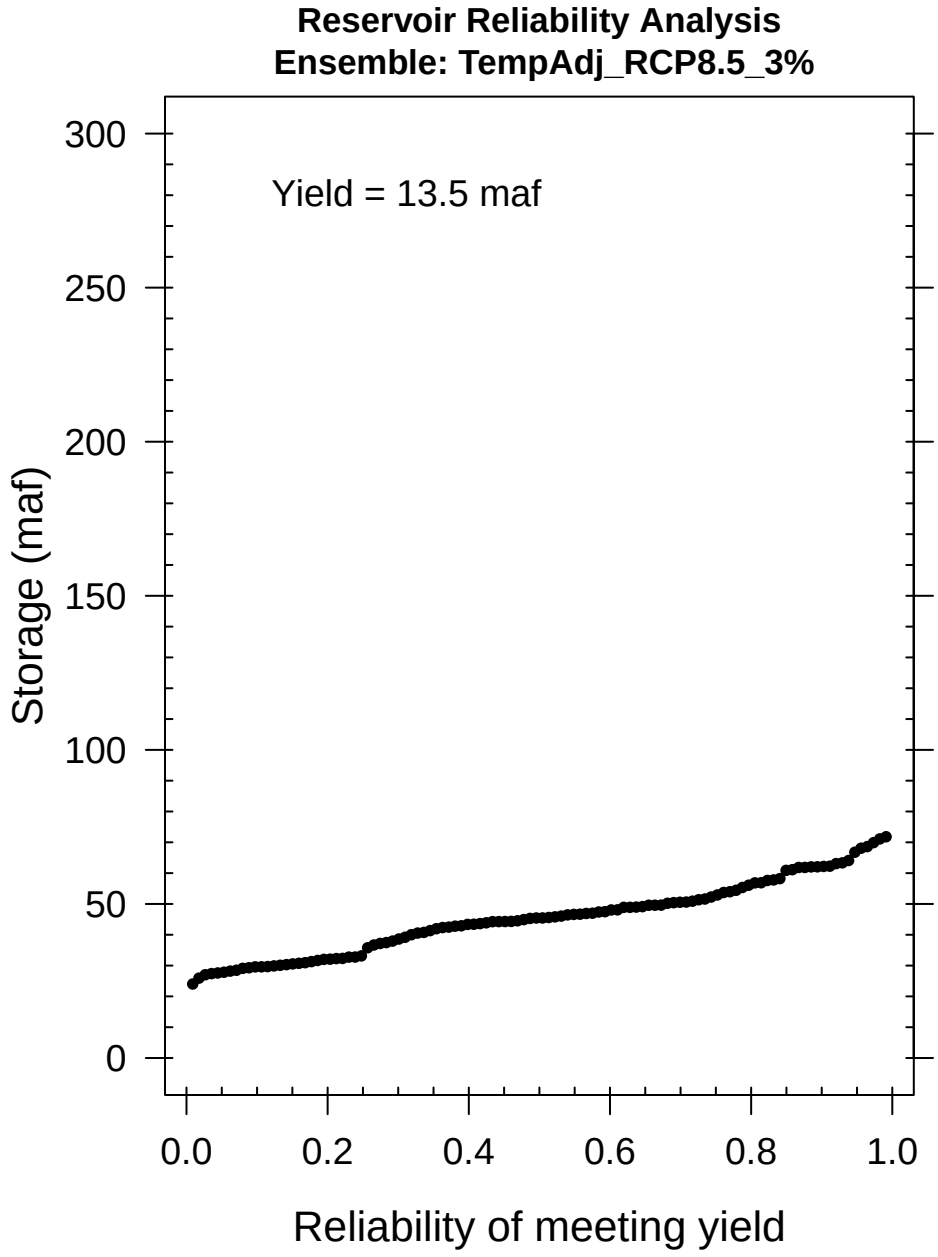

Reservoir Storage−Yield Analysis
Ensemble: TempAdj_RCP4.5_6.5%
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

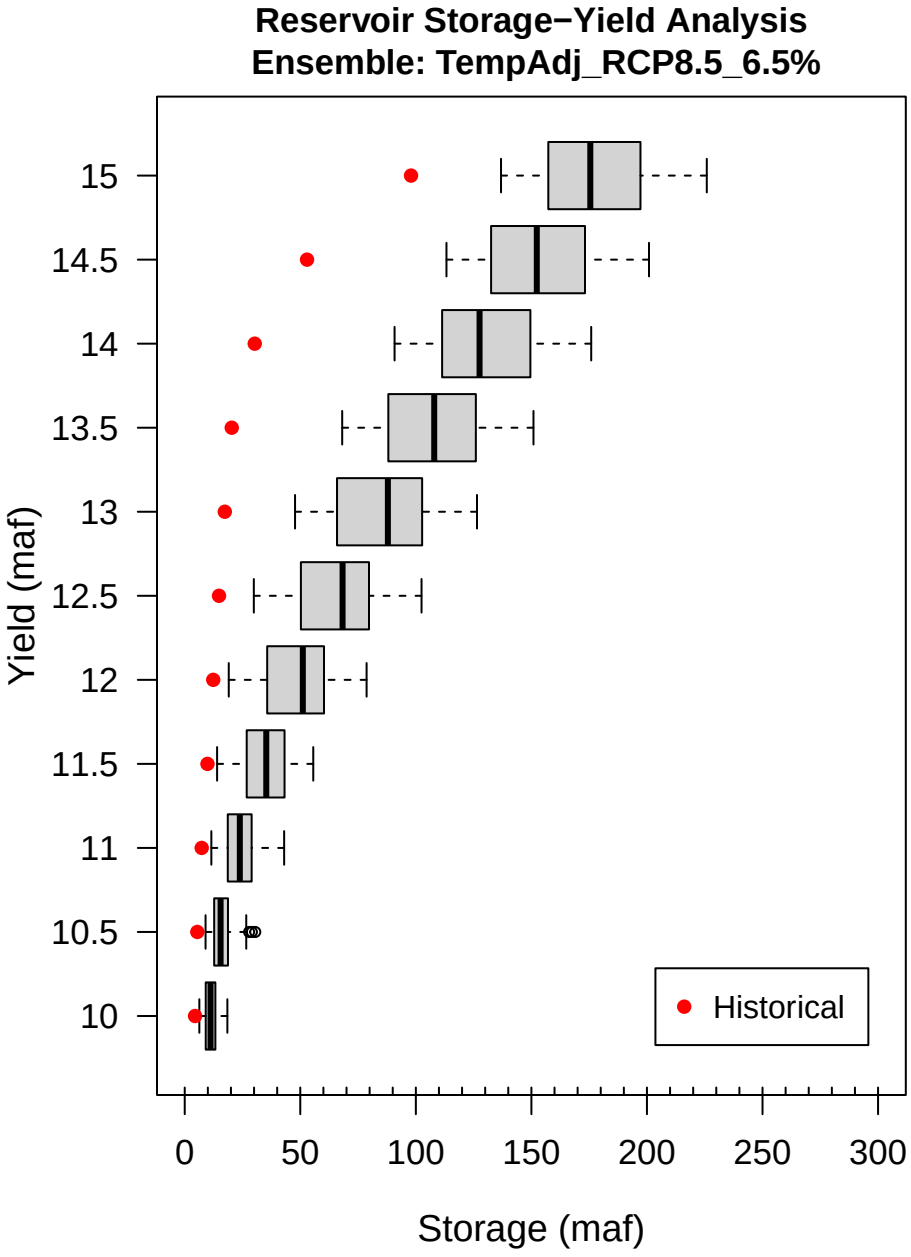

Reservoir Reliability Analysis
Ensemble: TempAdj_RCP4.5_6.5%
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

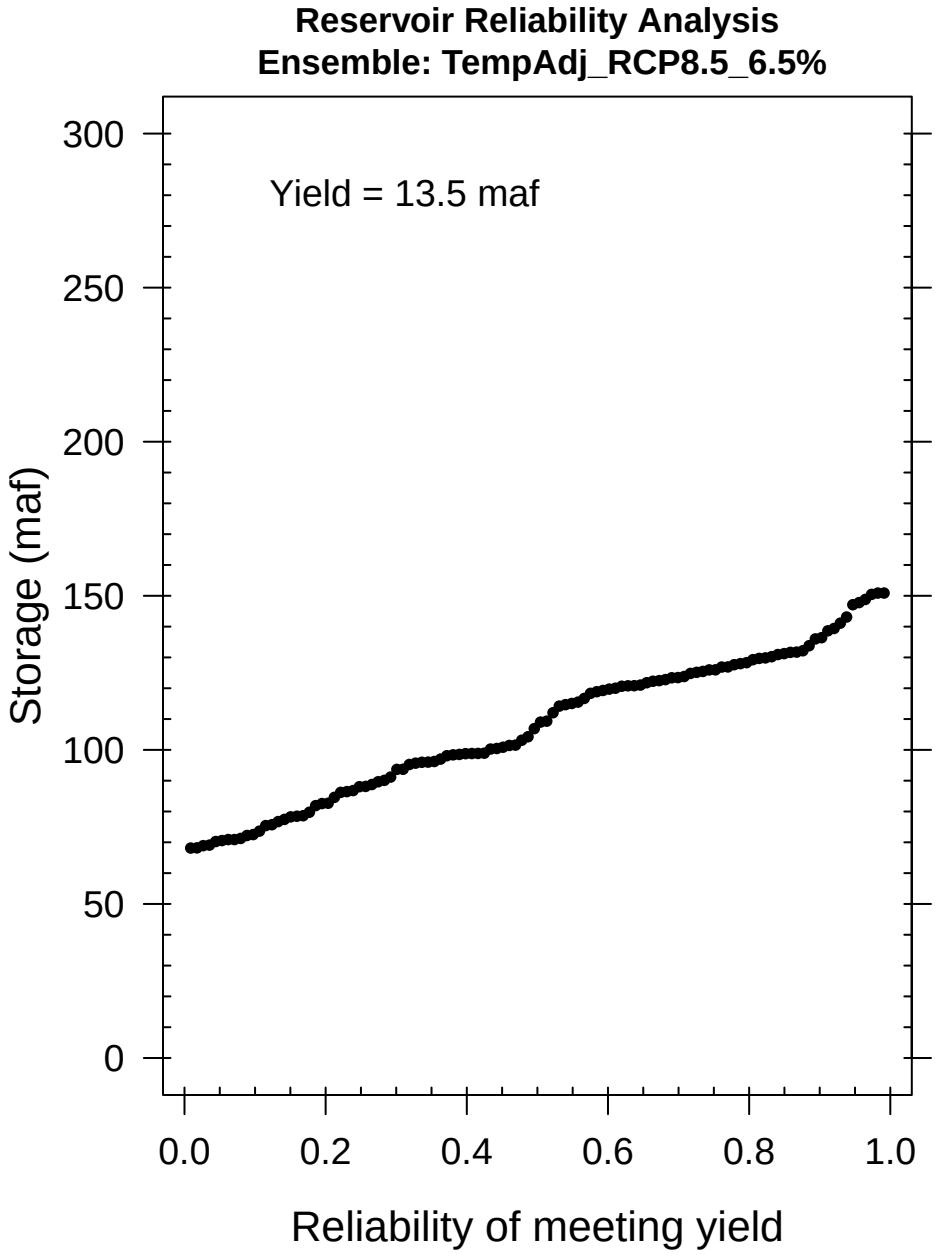

Reservoir Storage−Yield Analysis
Ensemble: TempAdj_RCP4.5_10%
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
0
50
100
150
200
250
300
Storage (maf)
Historical

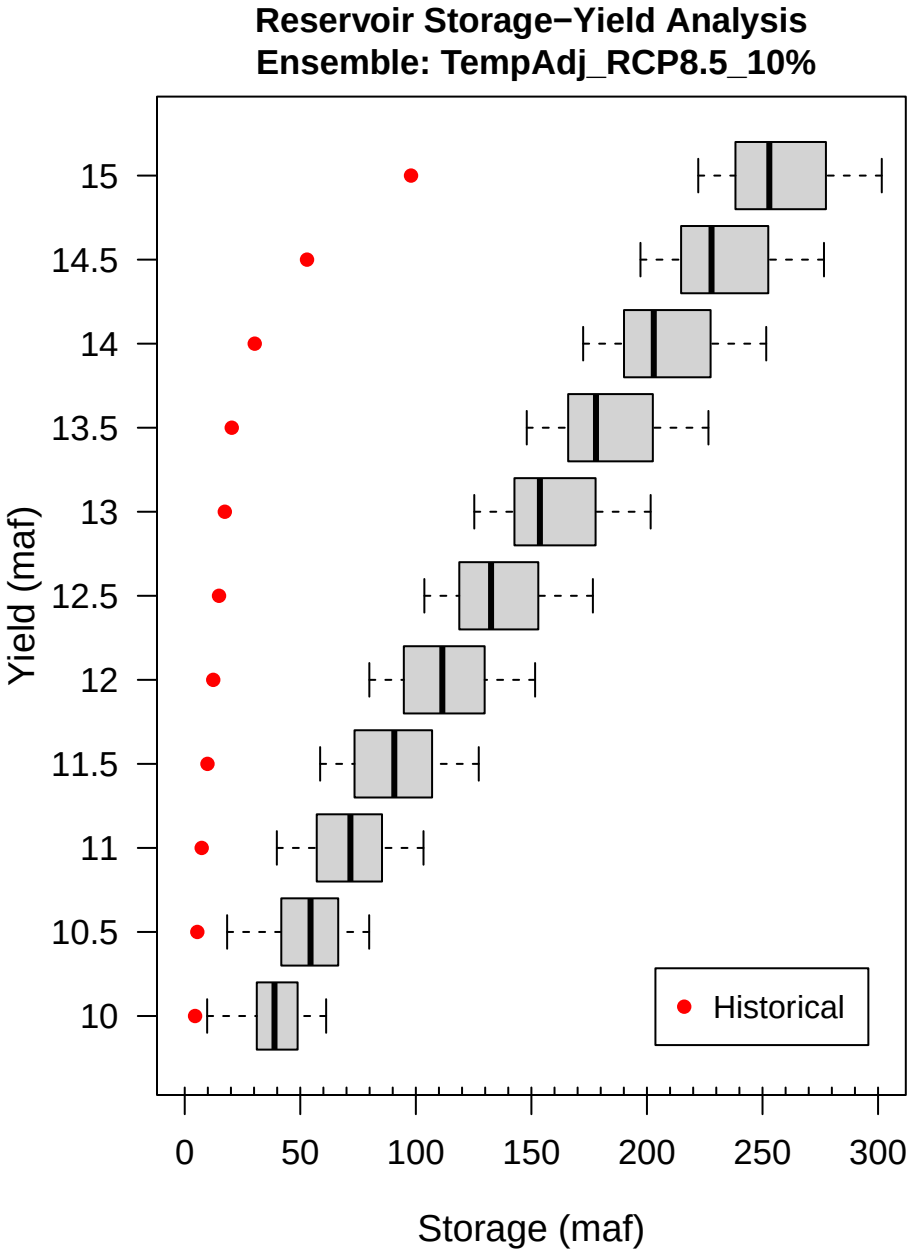

Reservoir Reliability Analysis
Ensemble: TempAdj_RCP4.5_10%
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

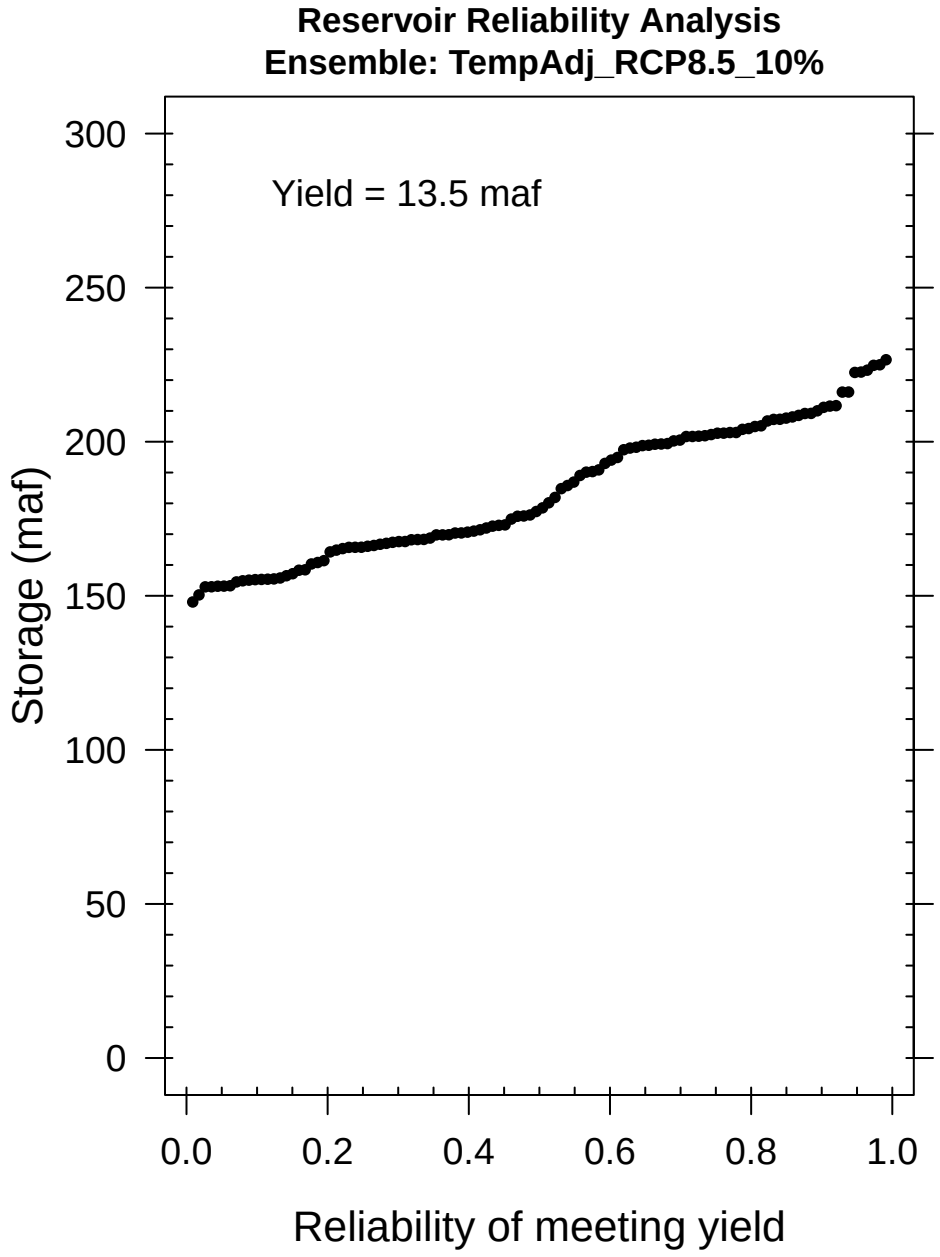

Reservoir Storage−Yield Analysis
Ensemble: TempAdj_RCP8.5_3%
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
Historical
0
50
100
150
200
250
300
Storage (maf)

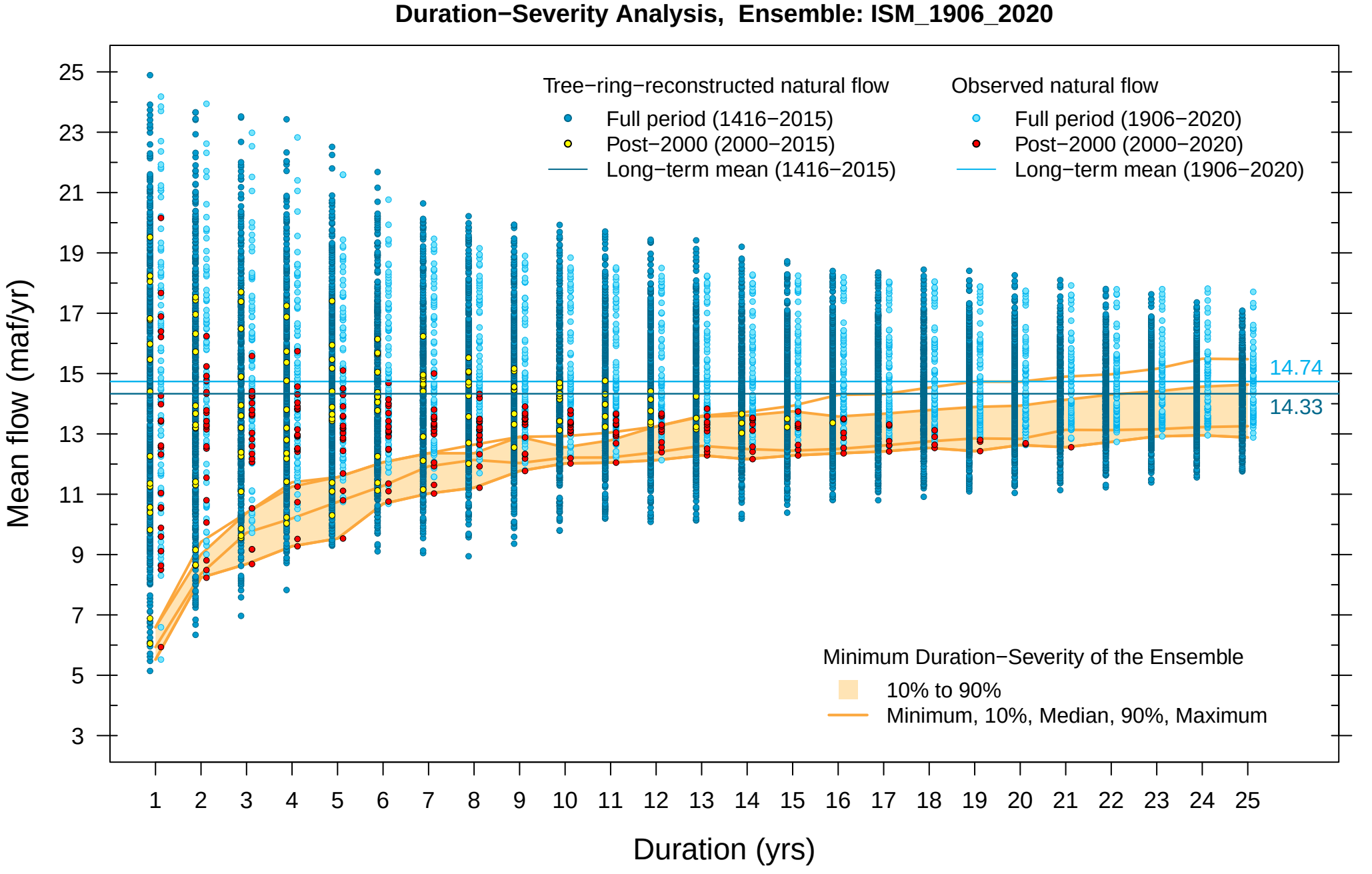

Reservoir Reliability Analysis
Ensemble: TempAdj_RCP8.5_3%
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield

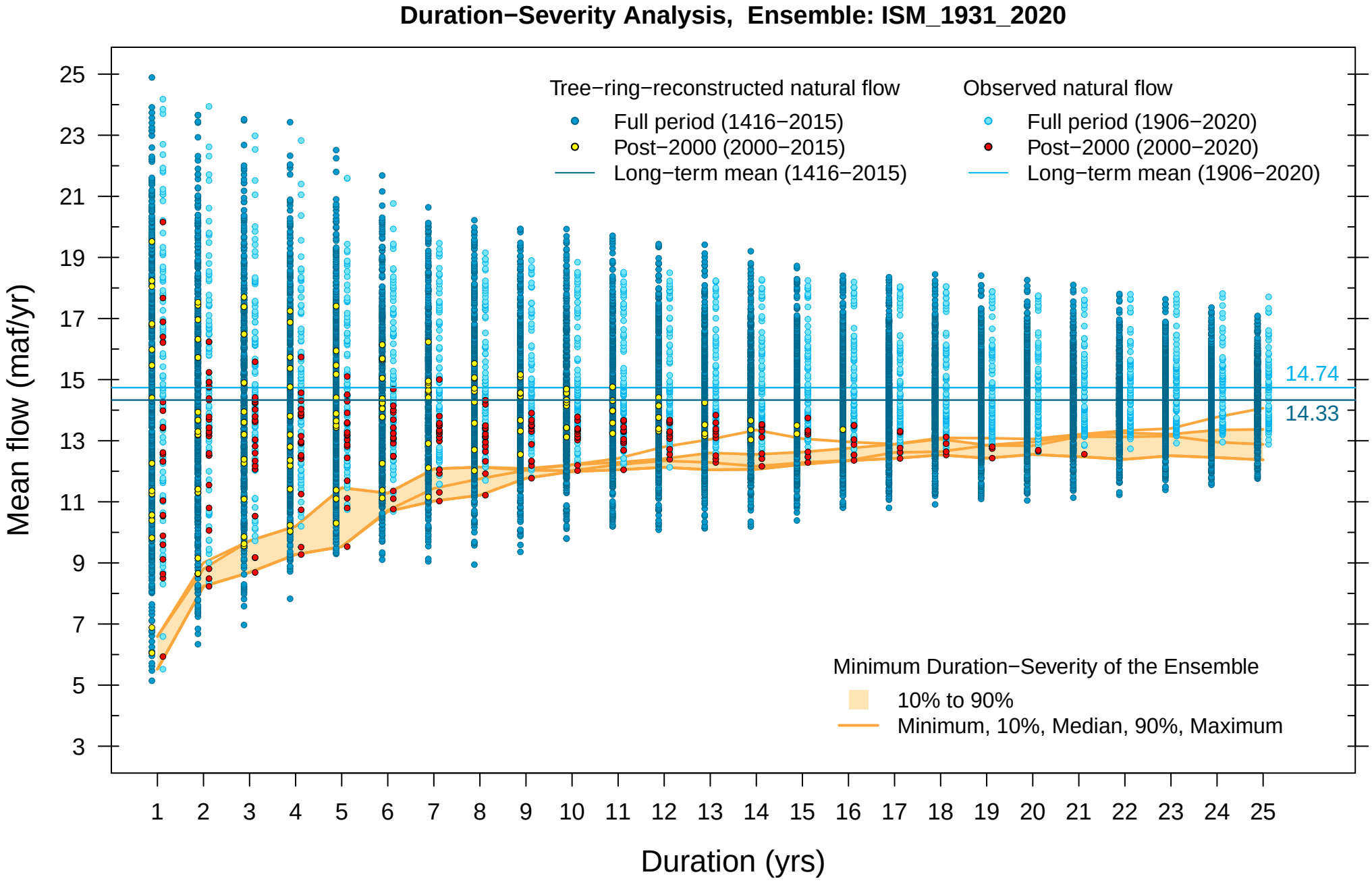

Reservoir Storage−Yield Analysis
Ensemble: TempAdj_RCP8.5_6.5%
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
0
50
100
150
200
250
300
Storage (maf)
Historical

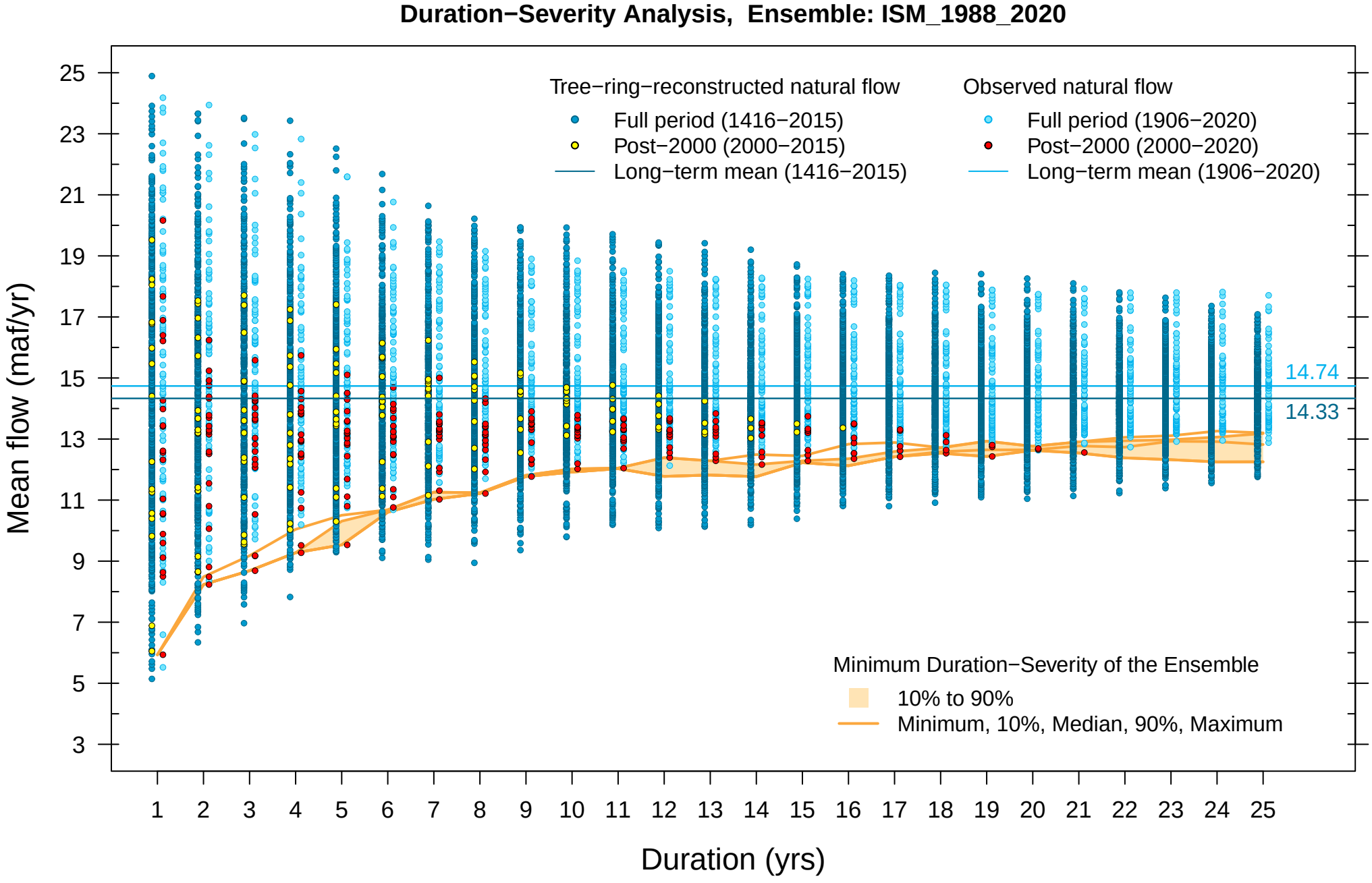

Reservoir Reliability Analysis
Ensemble: TempAdj_RCP8.5_6.5%
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield


Reservoir Storage−Yield Analysis
Ensemble: TempAdj_RCP8.5_10%
Yield (maf)
15
14.5
14
13.5
13
12.5
12
11.5
11
10.5
10
0
50
100
150
200
250
300
Storage (maf)
Historical


Reservoir Reliability Analysis
Ensemble: TempAdj_RCP8.5_10%
Yield = 13.5 maf
Storage (maf)
300
250
200
150
100
50
0
0.0
0.2
0.4
0.6
0.8
1.0
Reliability of meeting yield


Duration−Severity Analysis, Ensemble: ISM_1906_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
13
11
9
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: ISM_1931_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
13
11
9
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: ISM_1988_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
13
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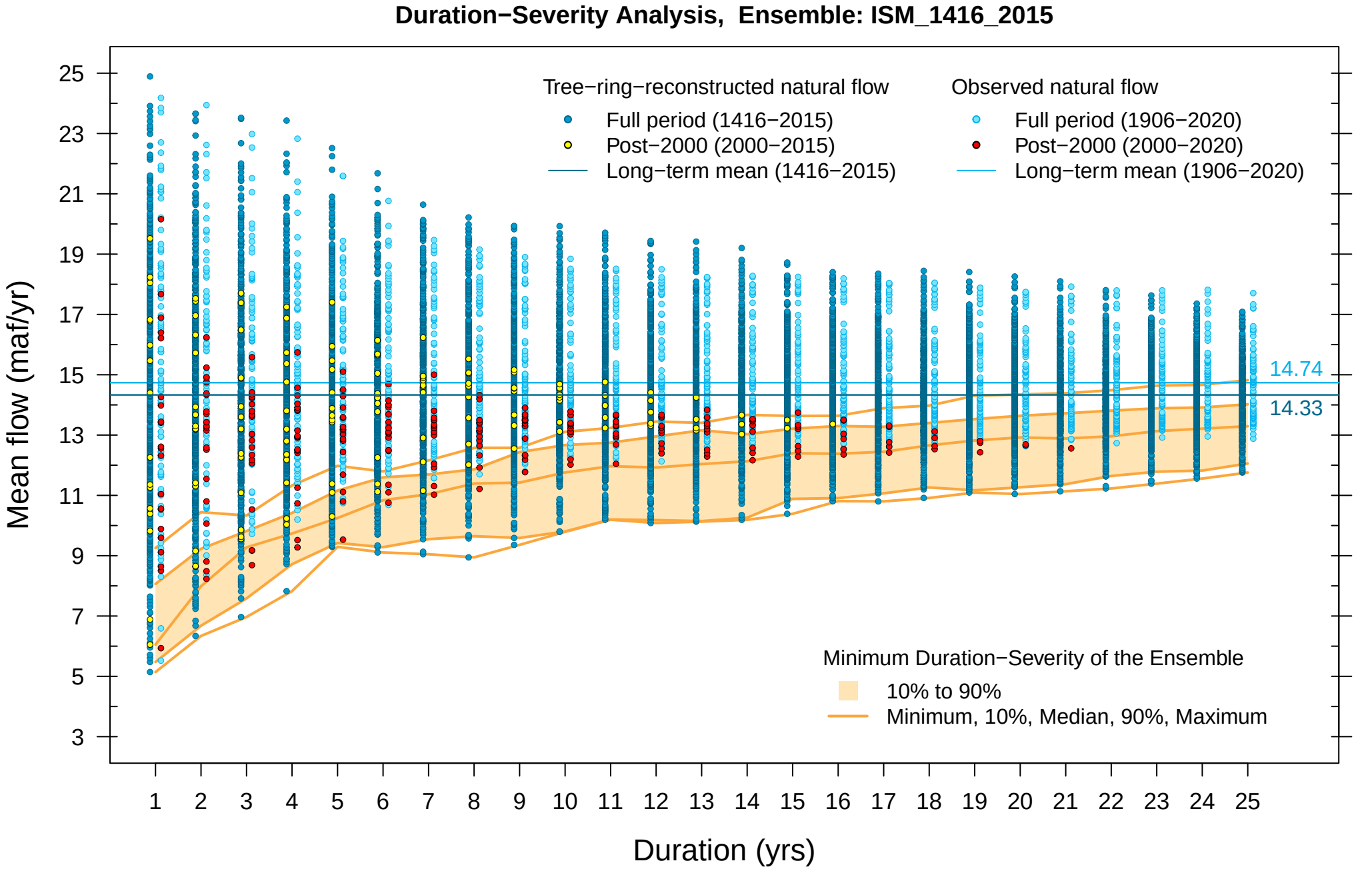
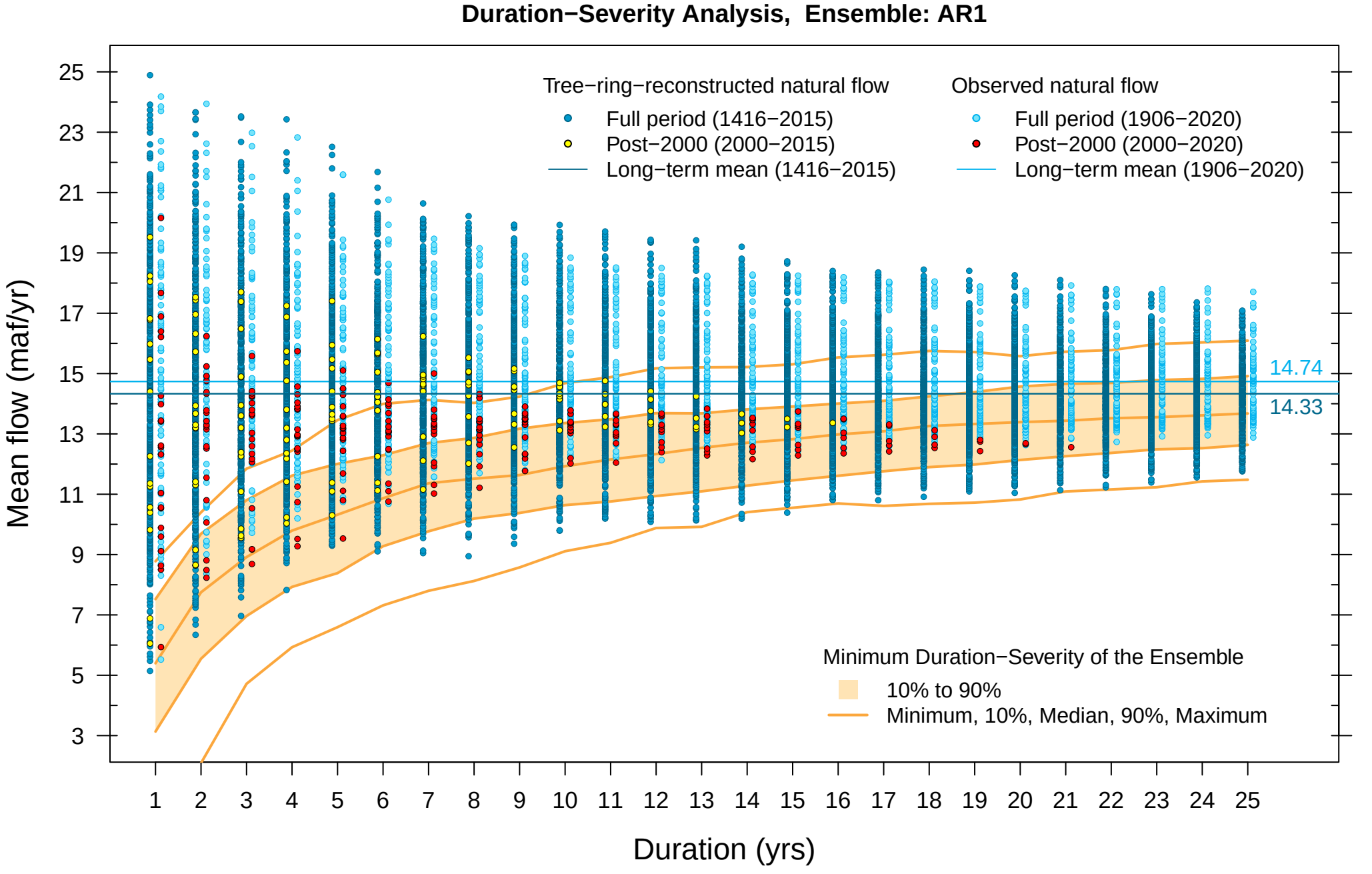
9
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: ISM_1416_2015
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Duration−Severity Analysis, Ensemble: AR1
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
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11
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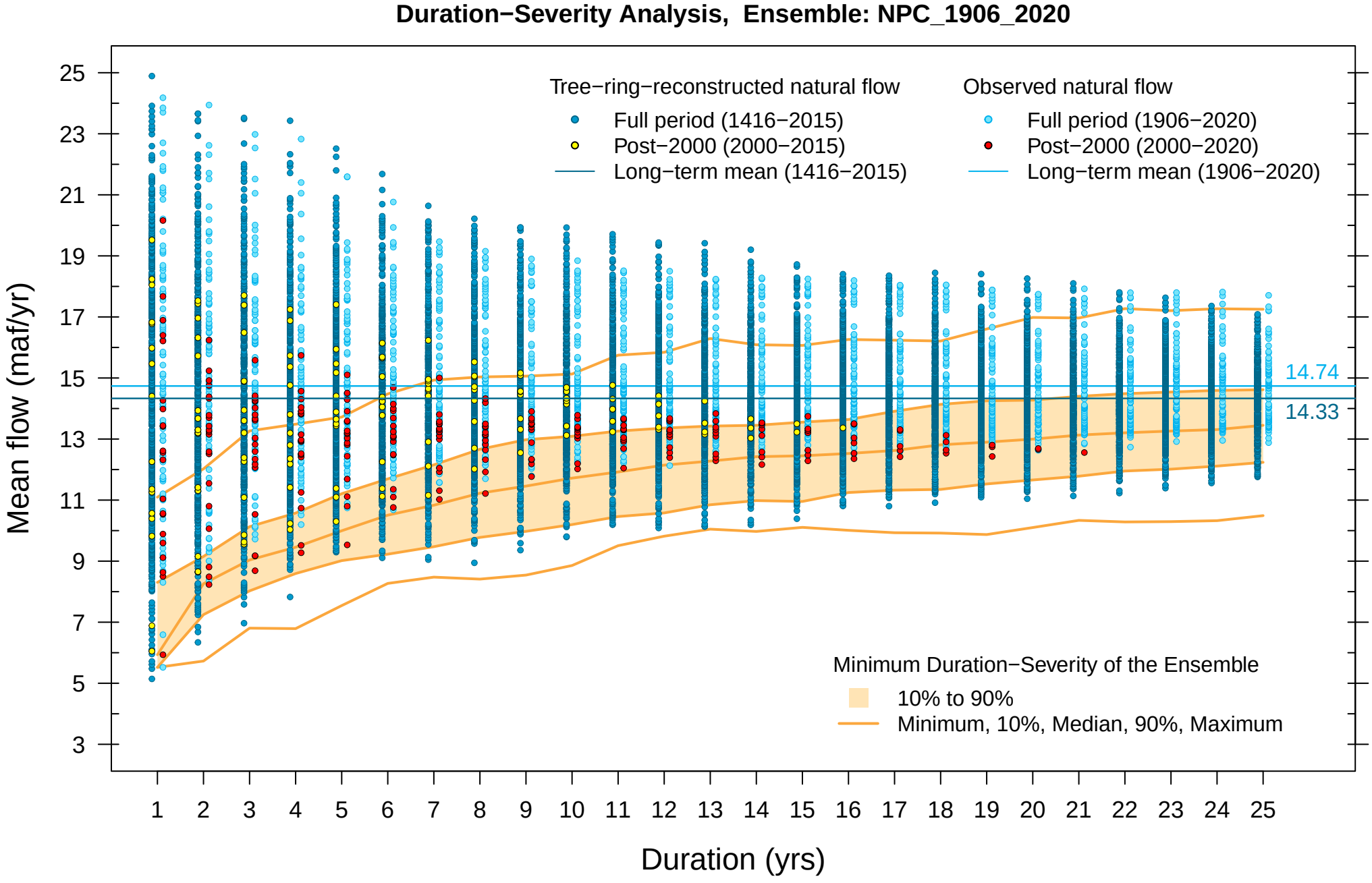
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: NPC_1906_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
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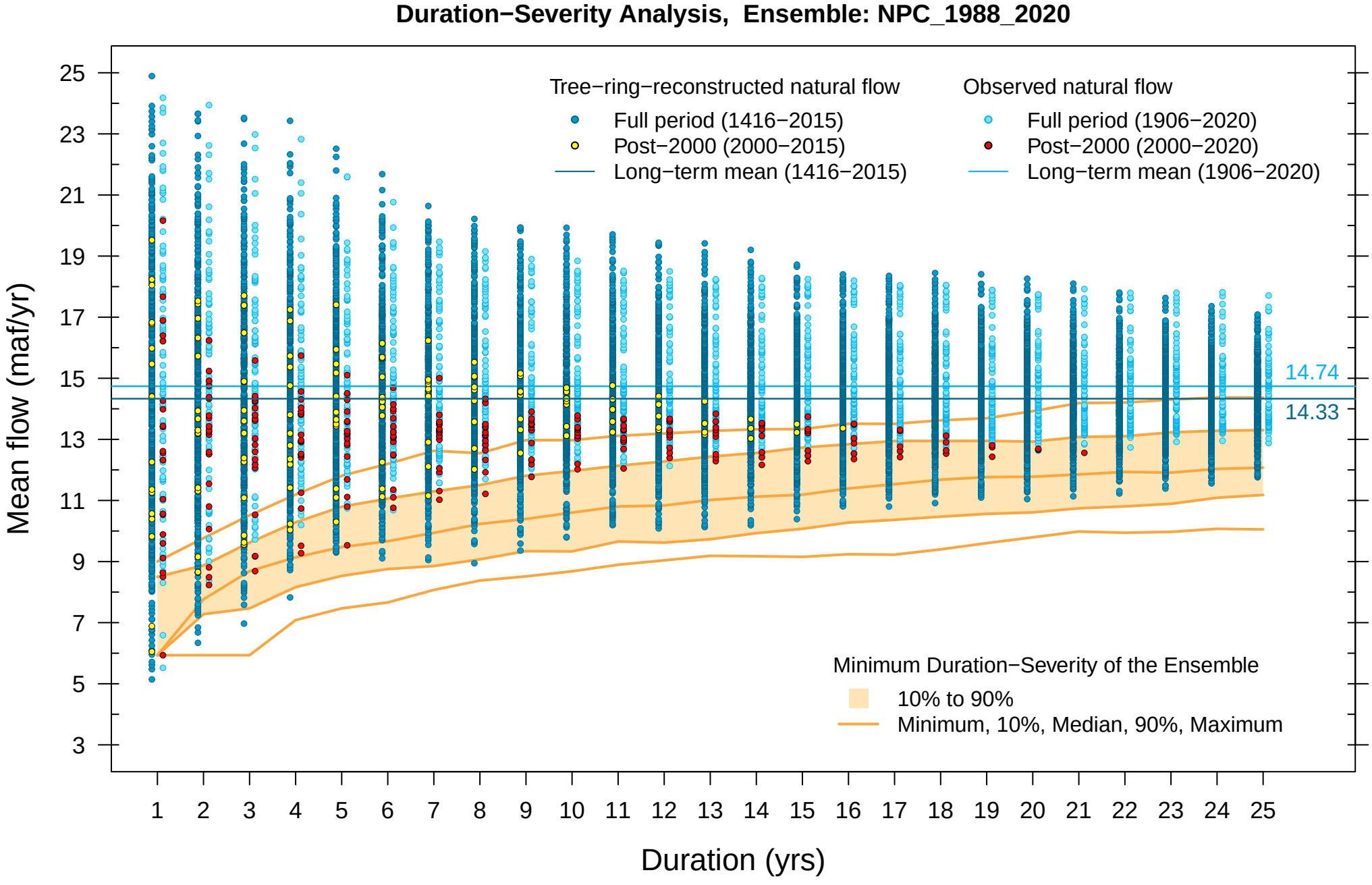
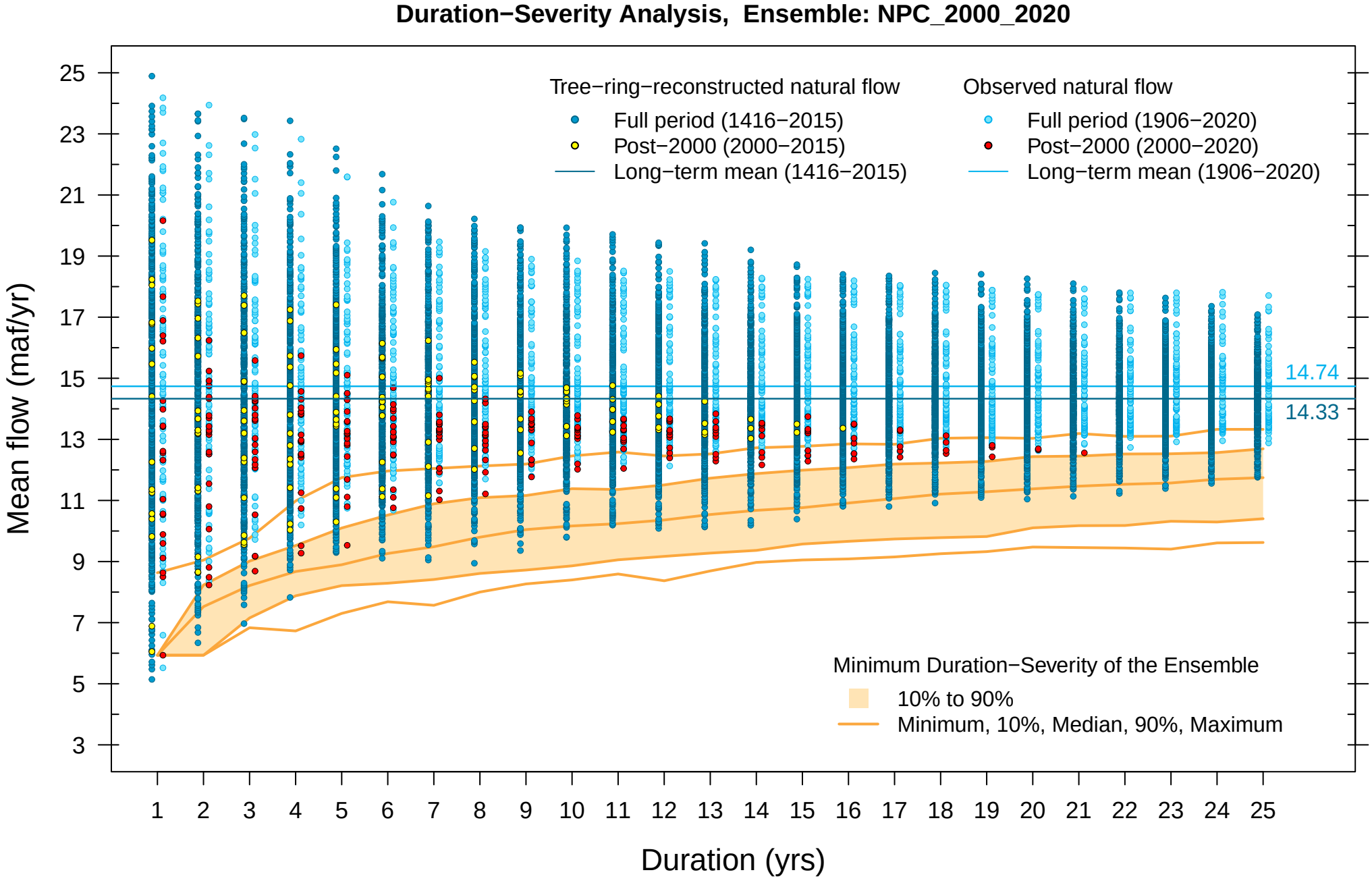
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: NPC_1988_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
13
11
9
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: NPC_2000_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
13
11
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7
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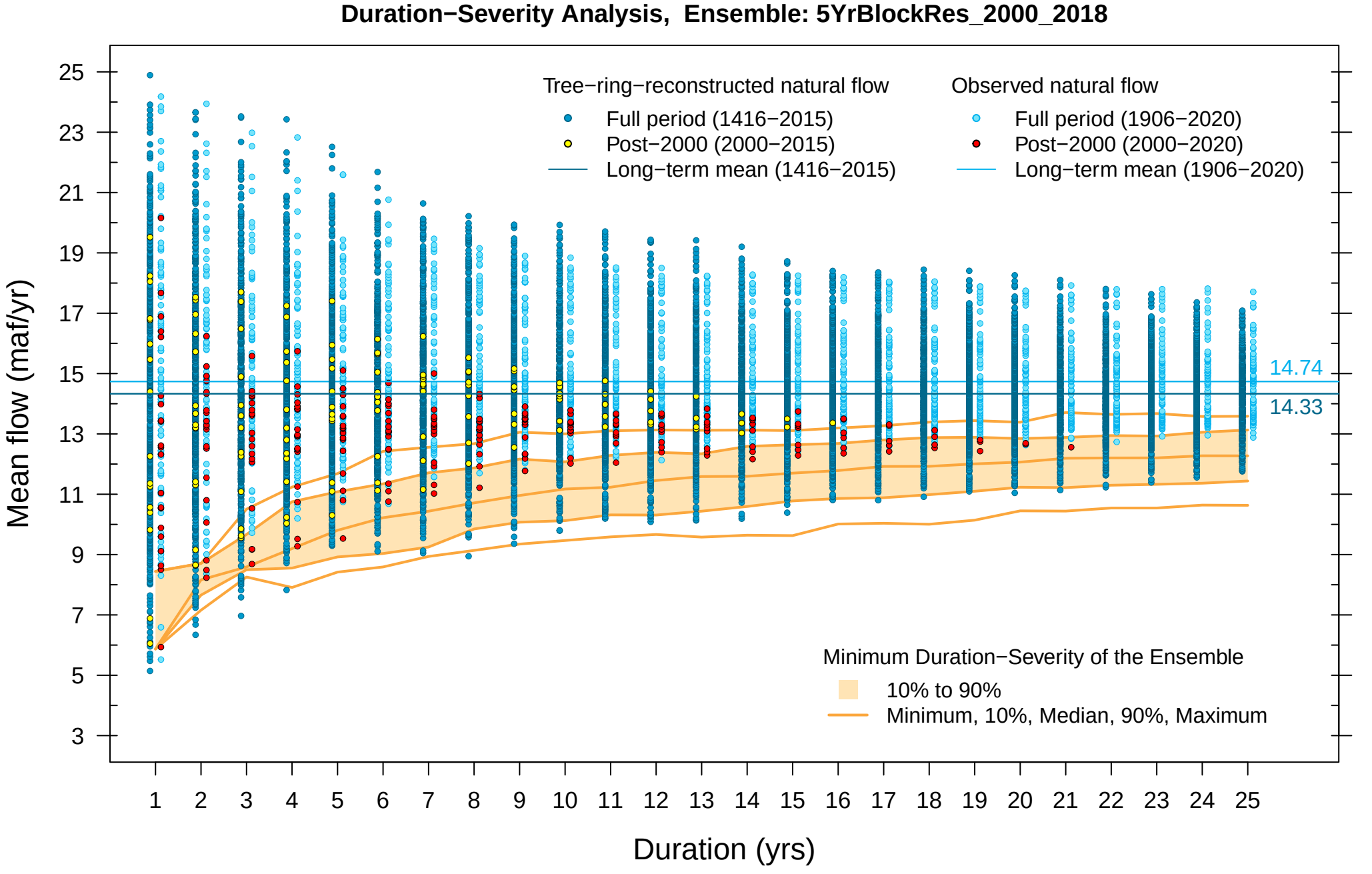
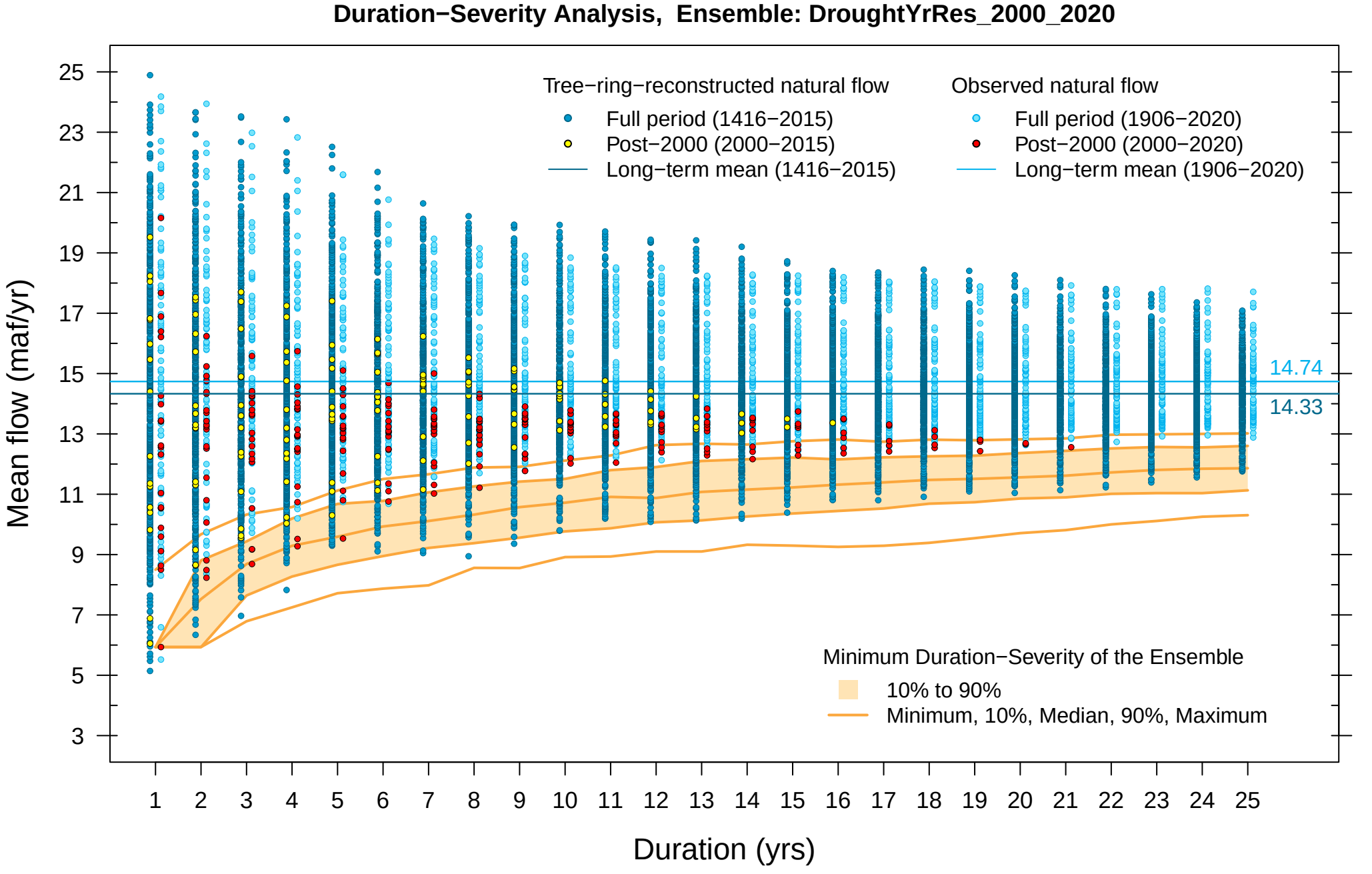
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: 5YrBlockRes_2000_2018
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Duration−Severity Analysis, Ensemble: DroughtYrRes_2000_2020
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
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11
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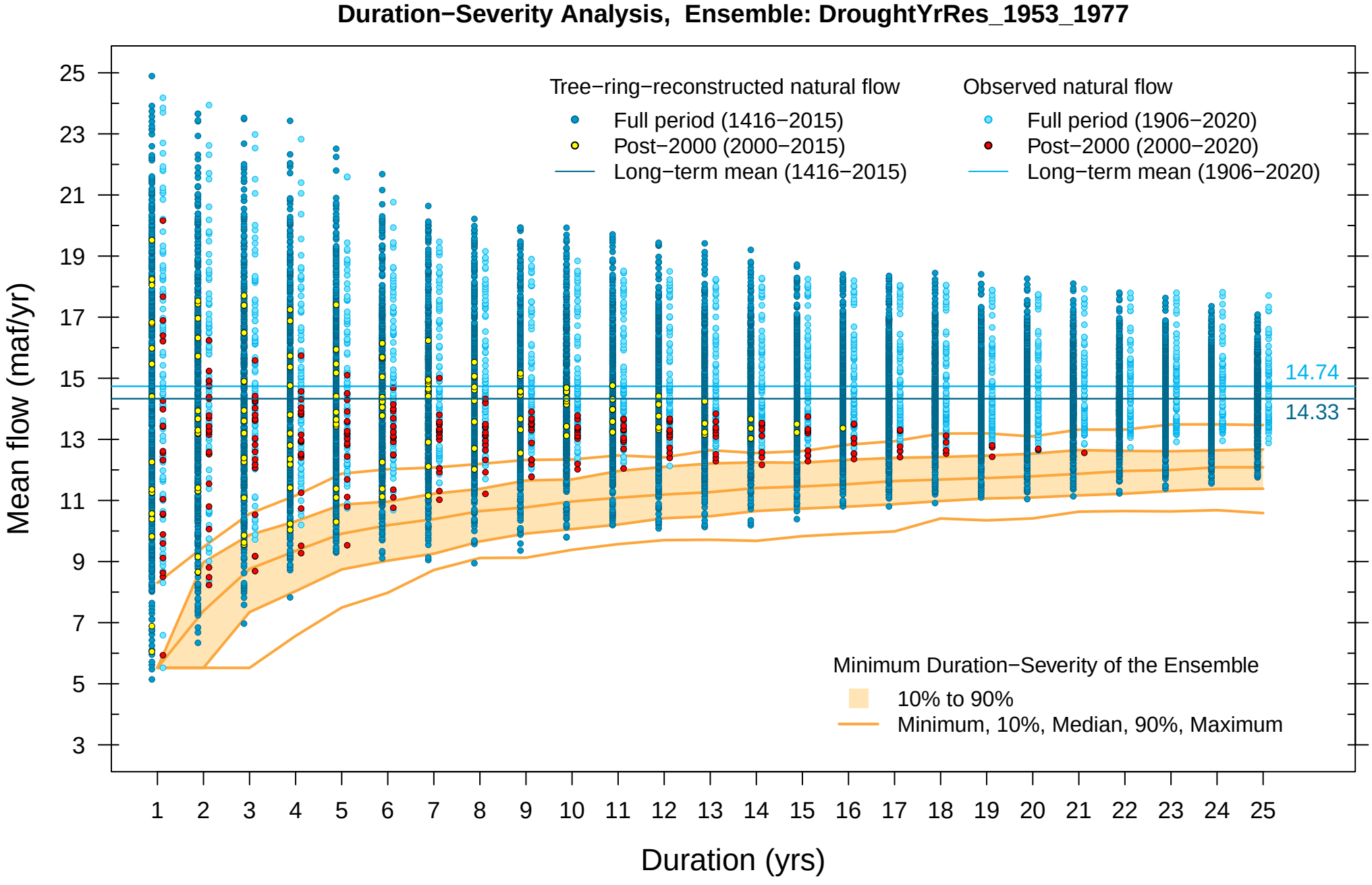
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: DroughtYrRes_1953_1977
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
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11
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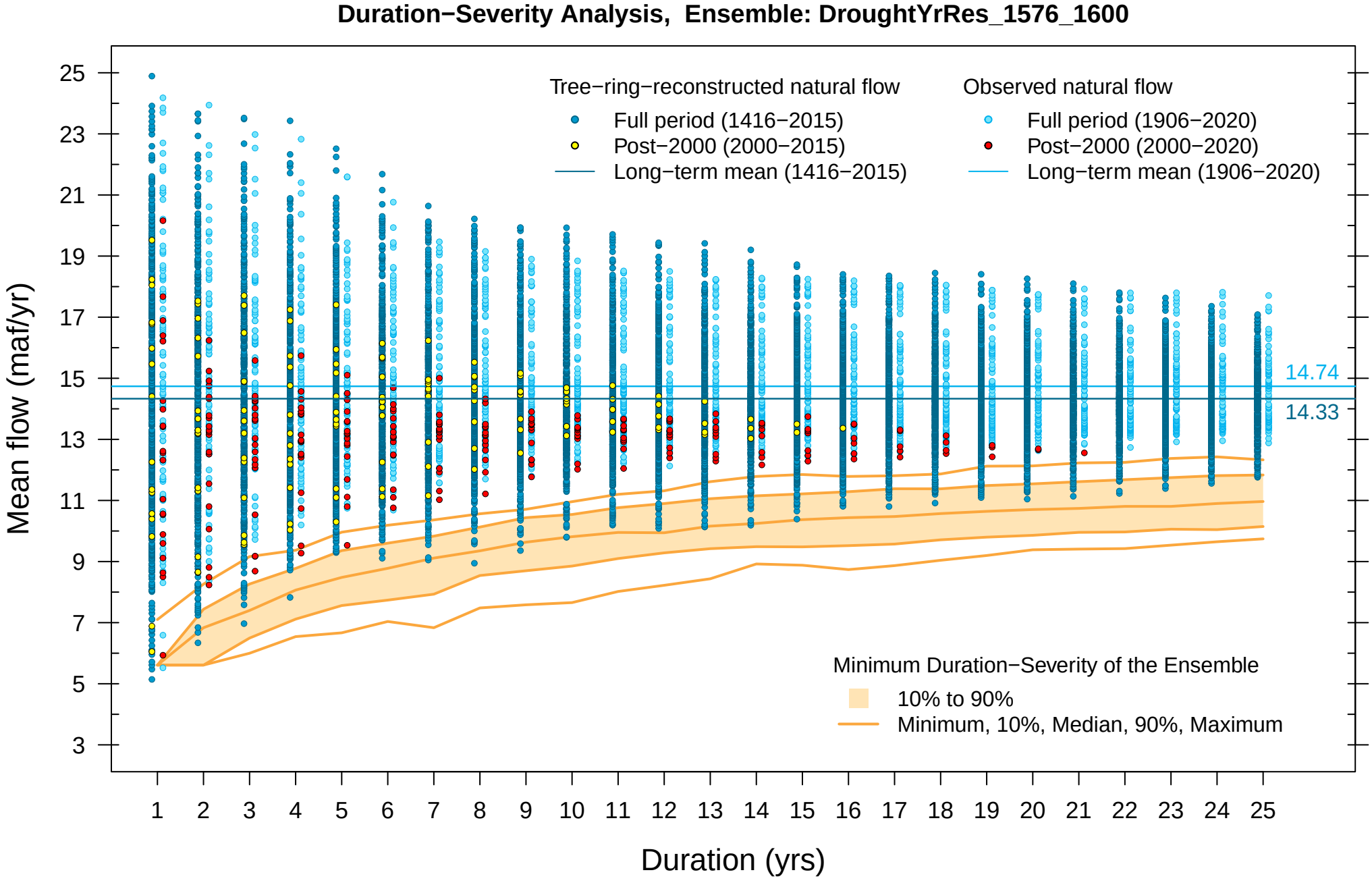
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: DroughtYrRes_1576_1600
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
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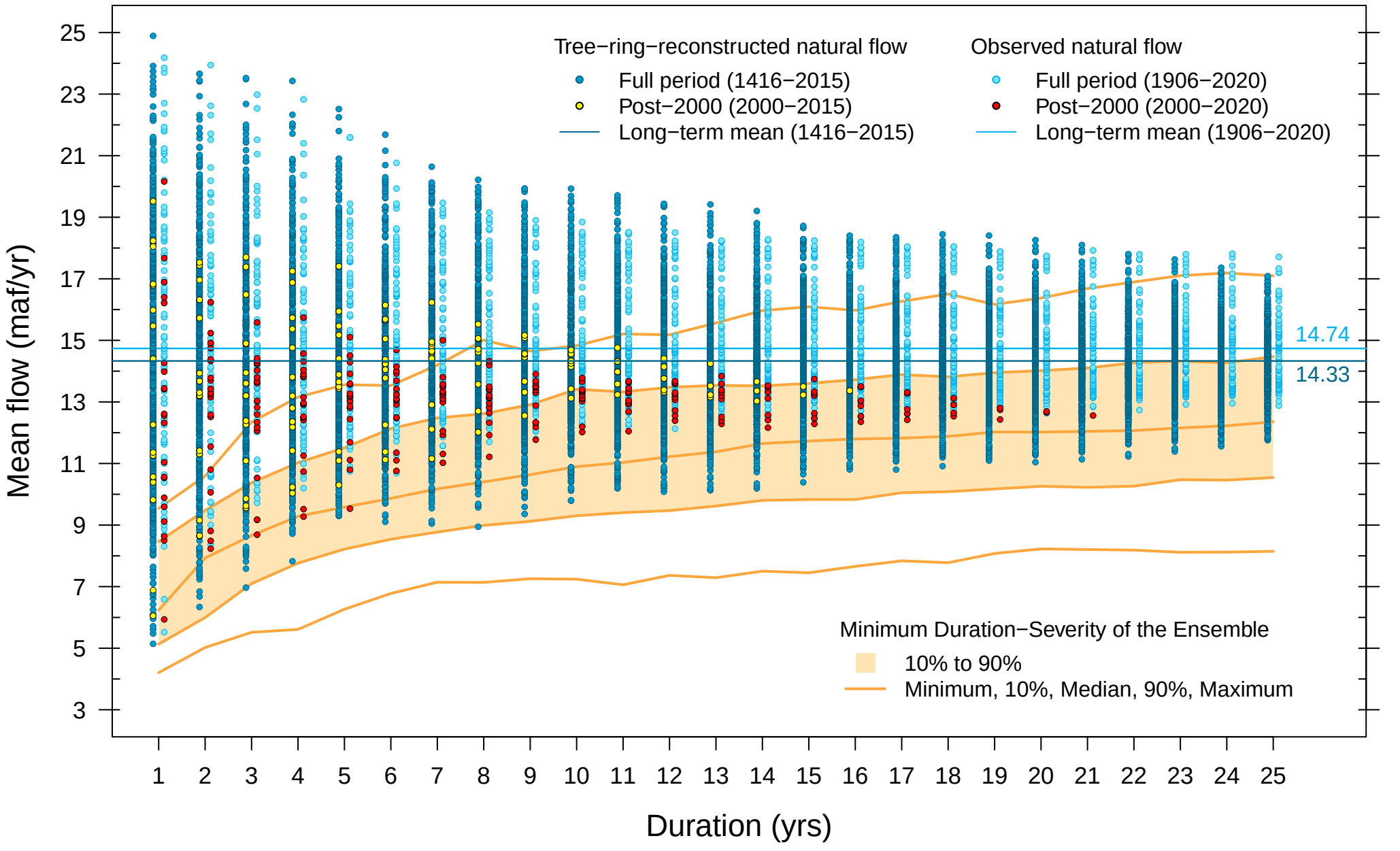
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: CMIP3_BCSD
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
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15
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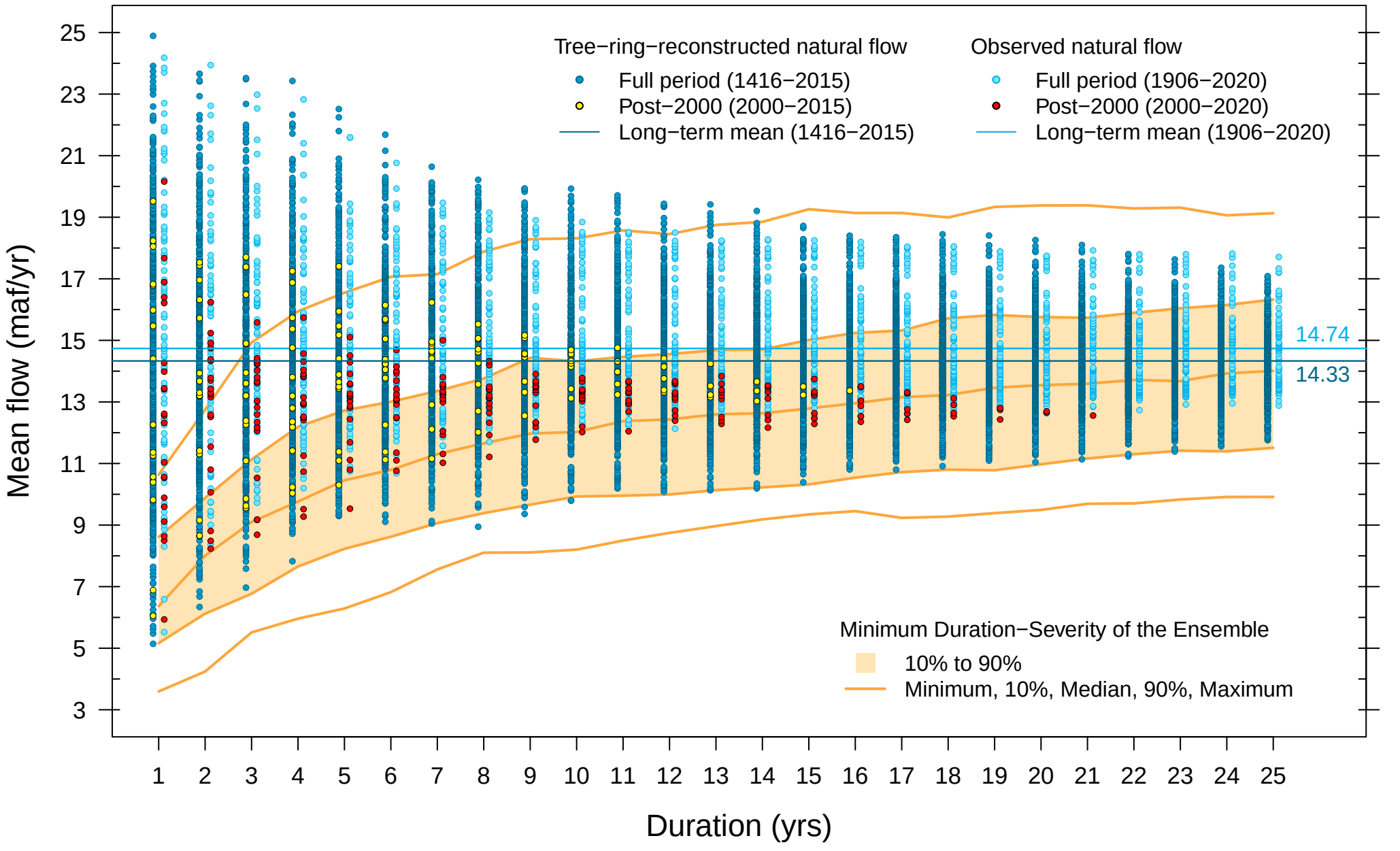
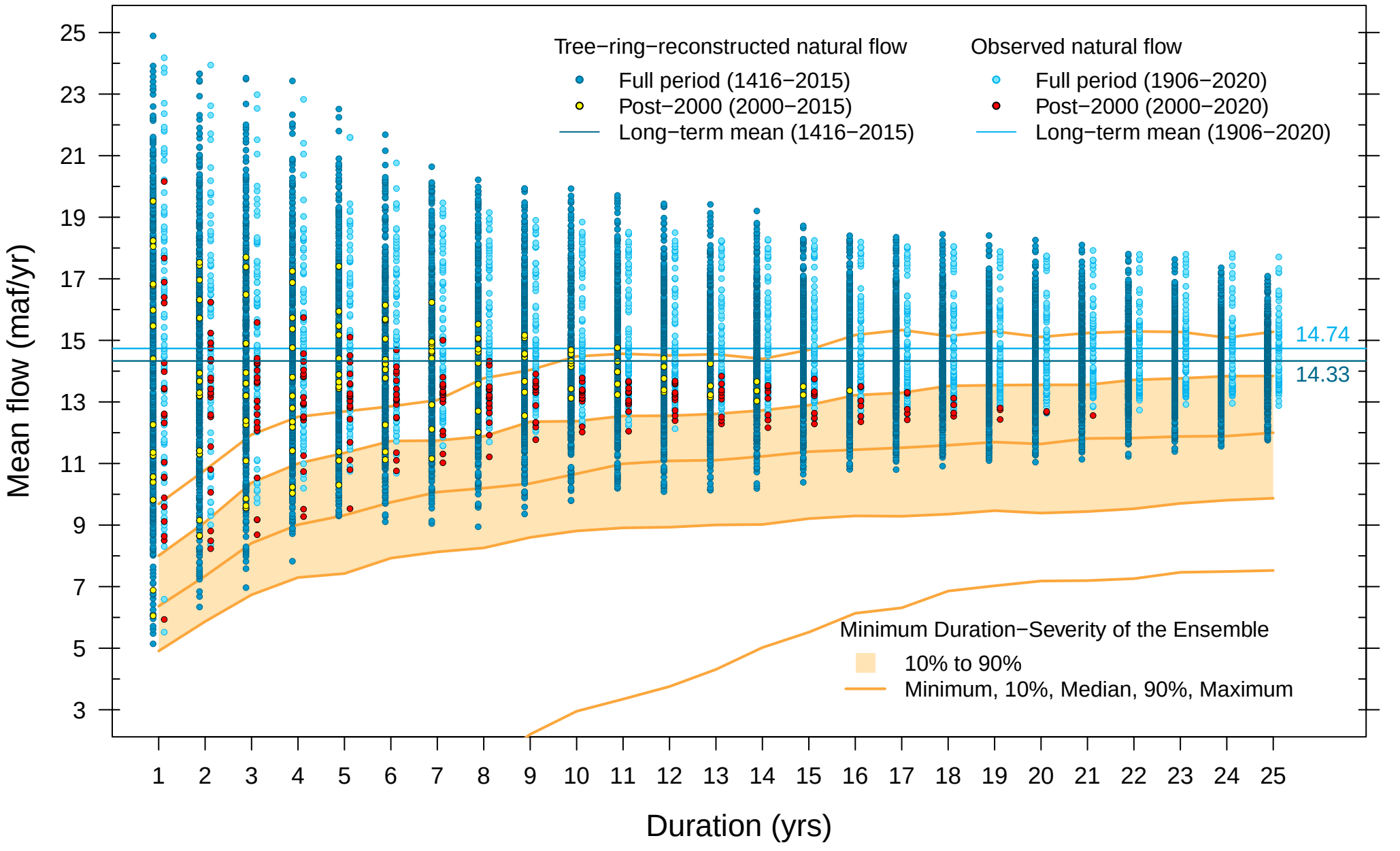
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: CMIP5_BCSD
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
21
19
17
15
13
11
9
7
5
3
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25


Duration−Severity Analysis, Ensemble: CMIP5_LOCA
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)
25
23
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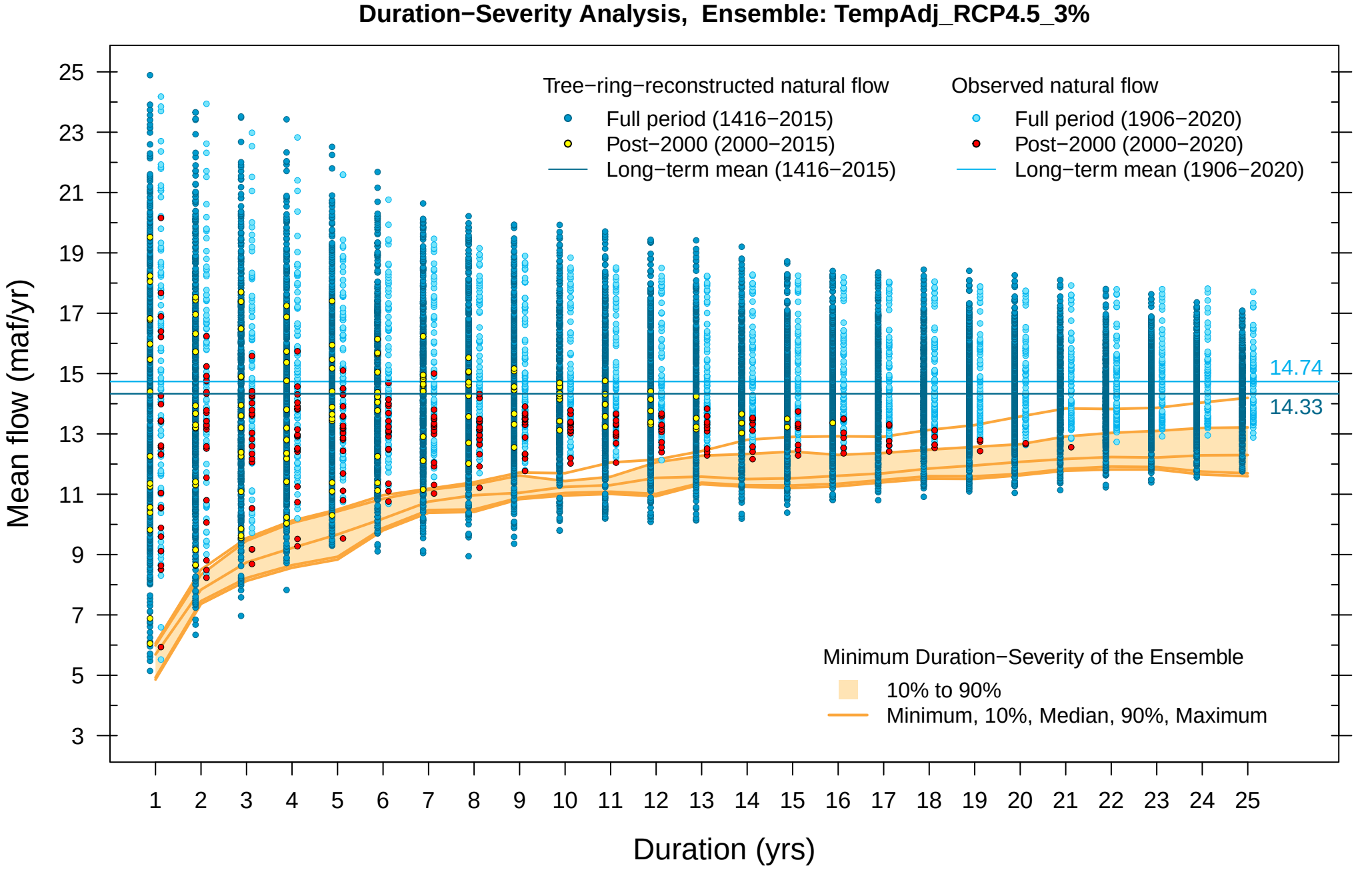
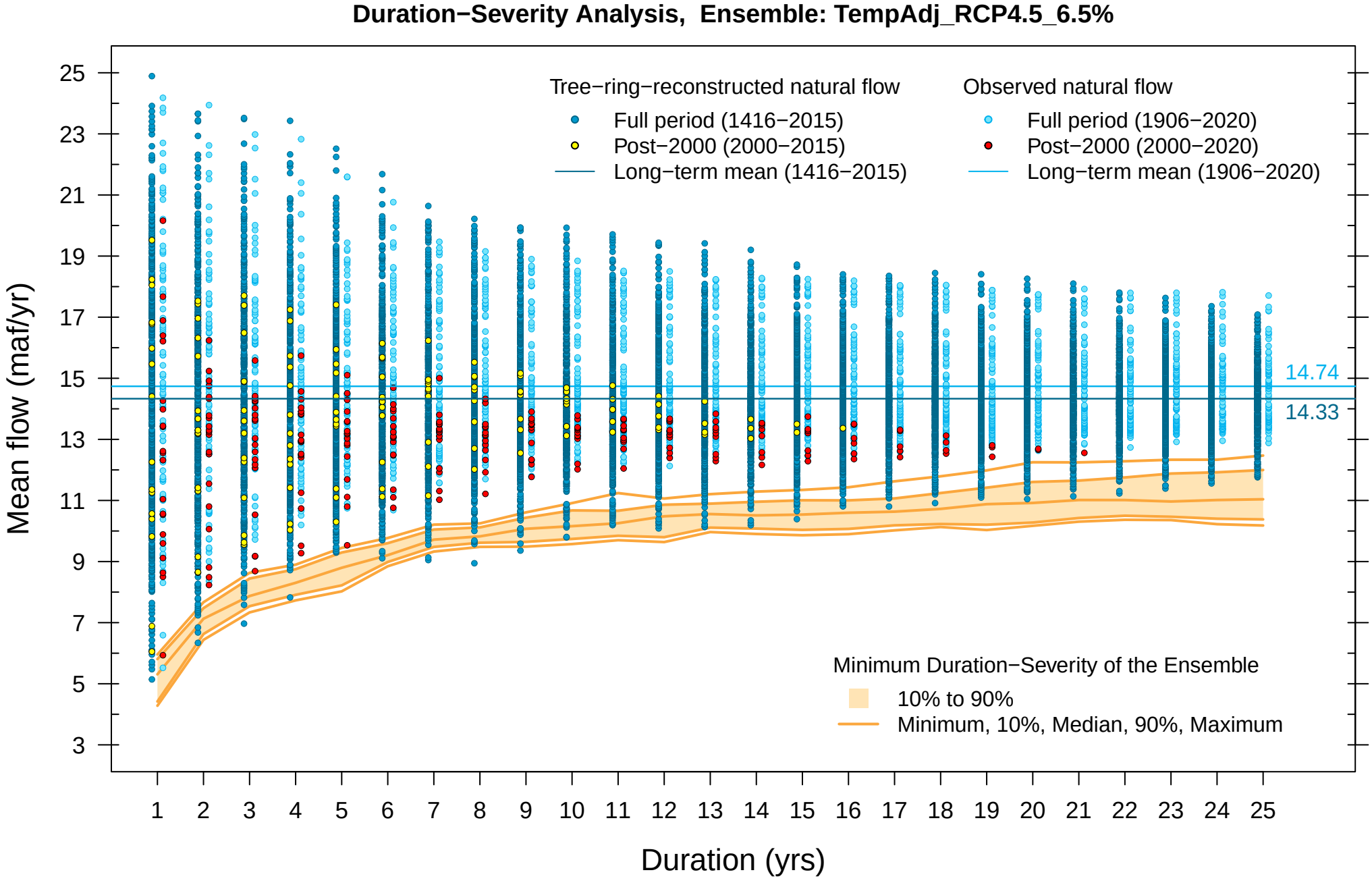
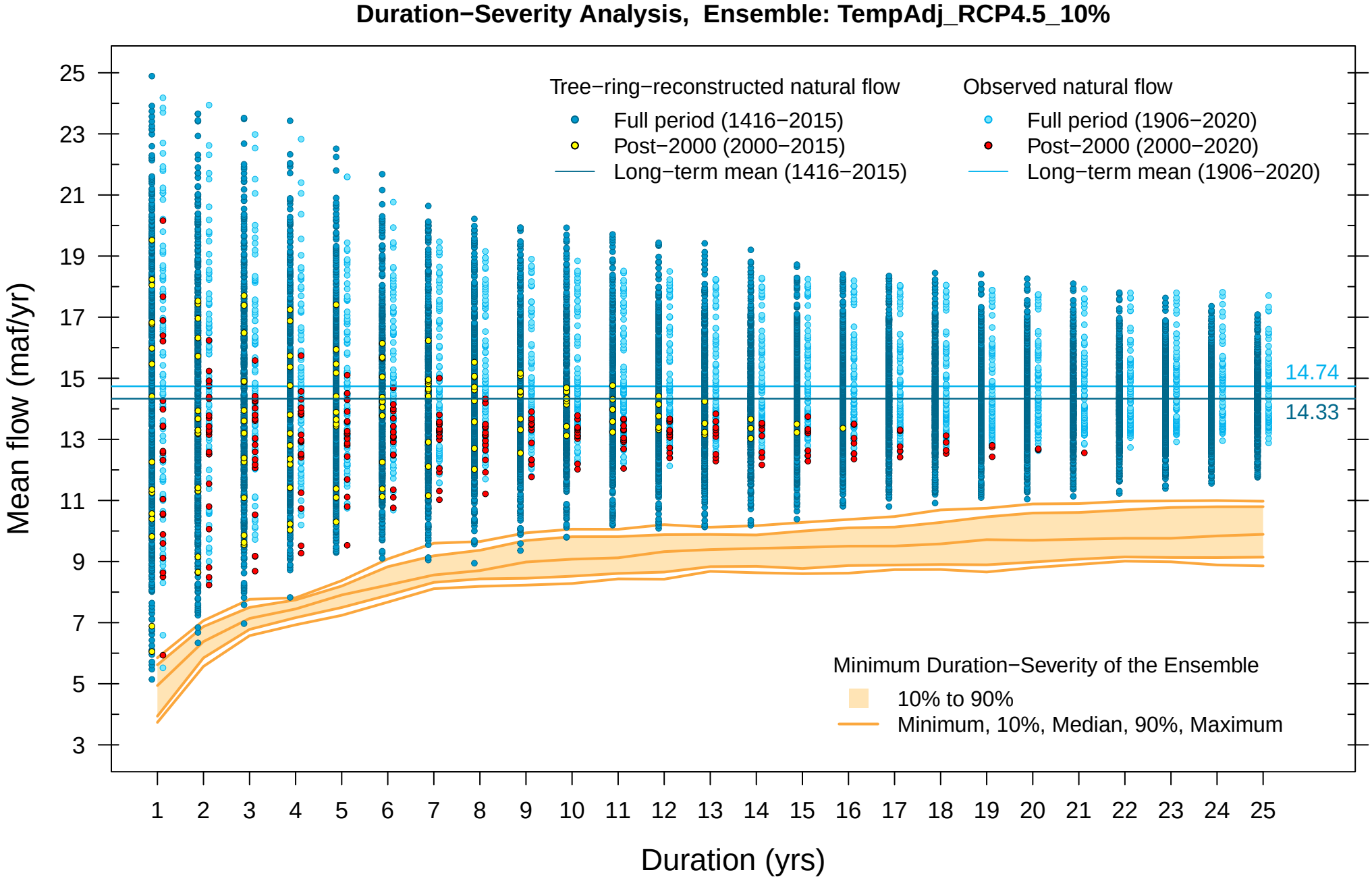
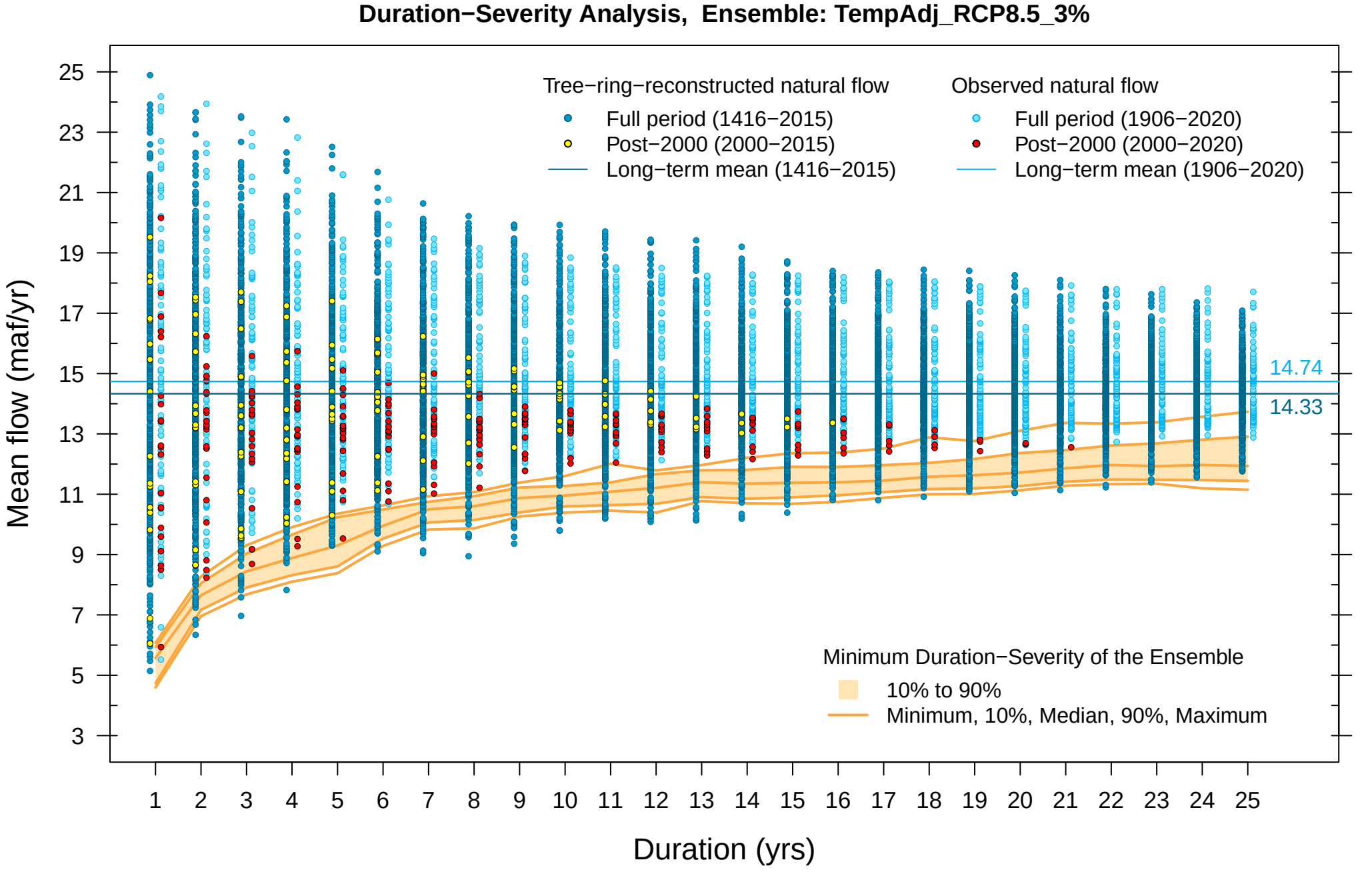
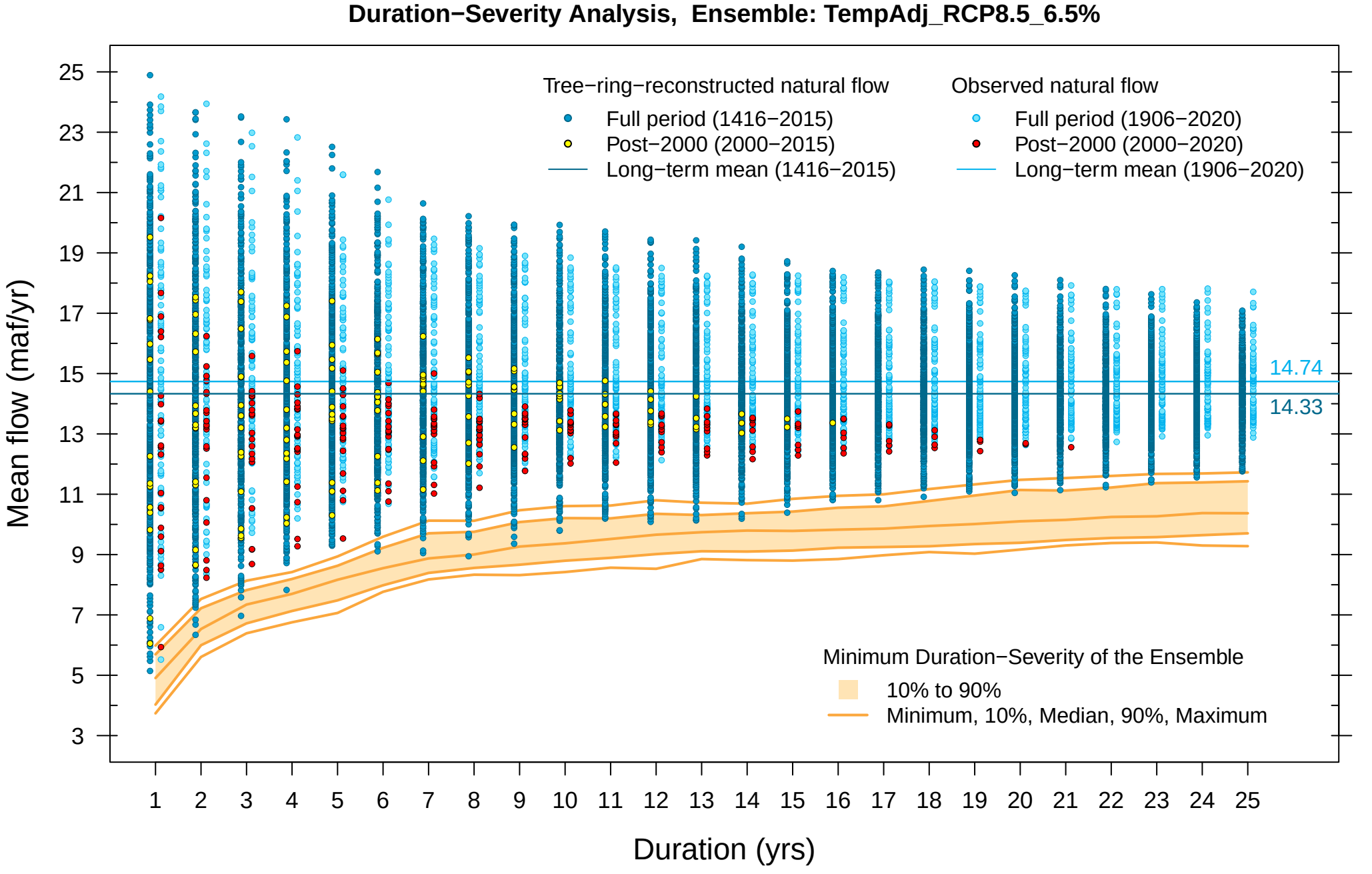
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

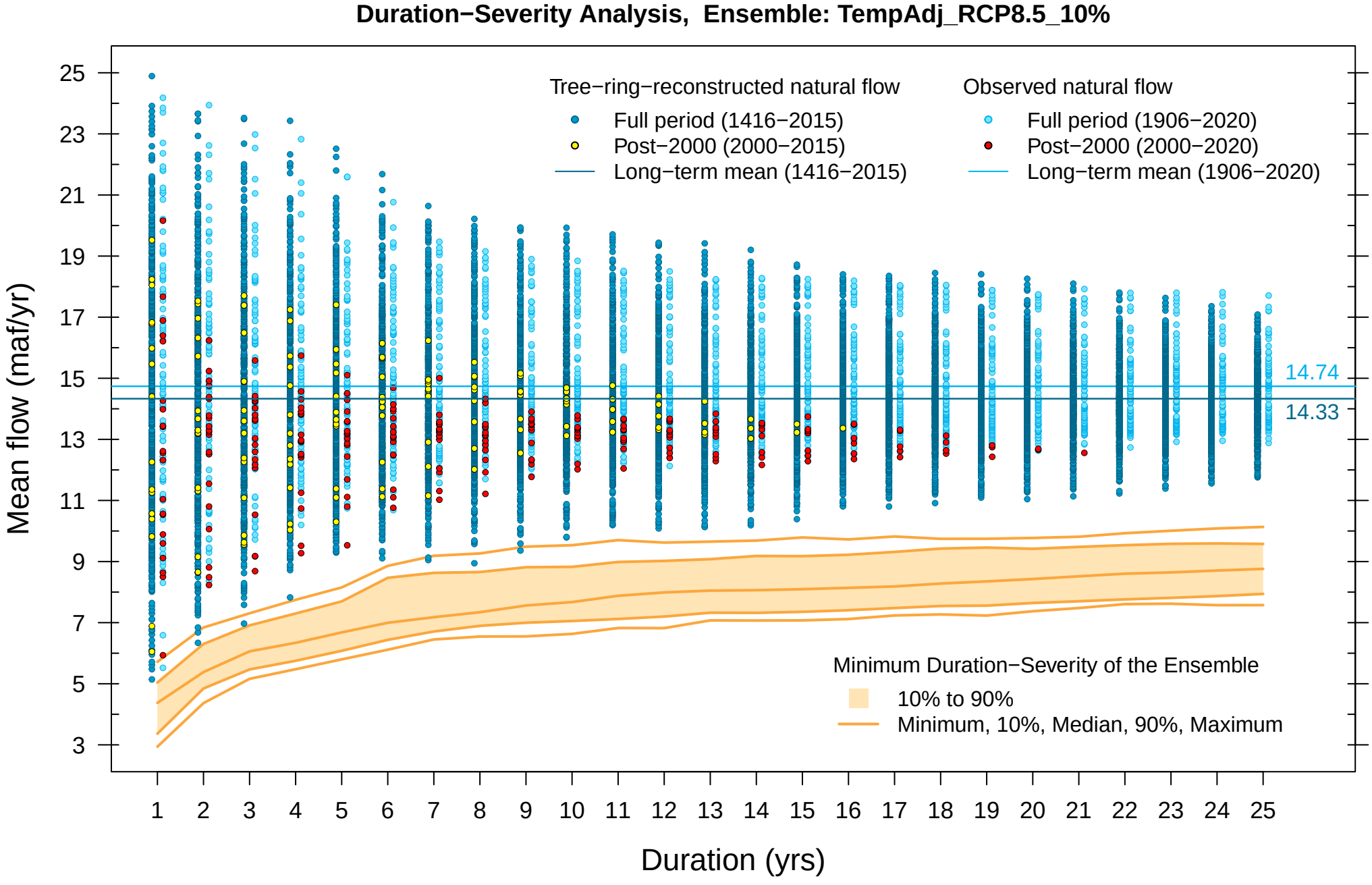

Duration−Severity Analysis, Ensemble: TempAdj_RCP4.5_3%
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)

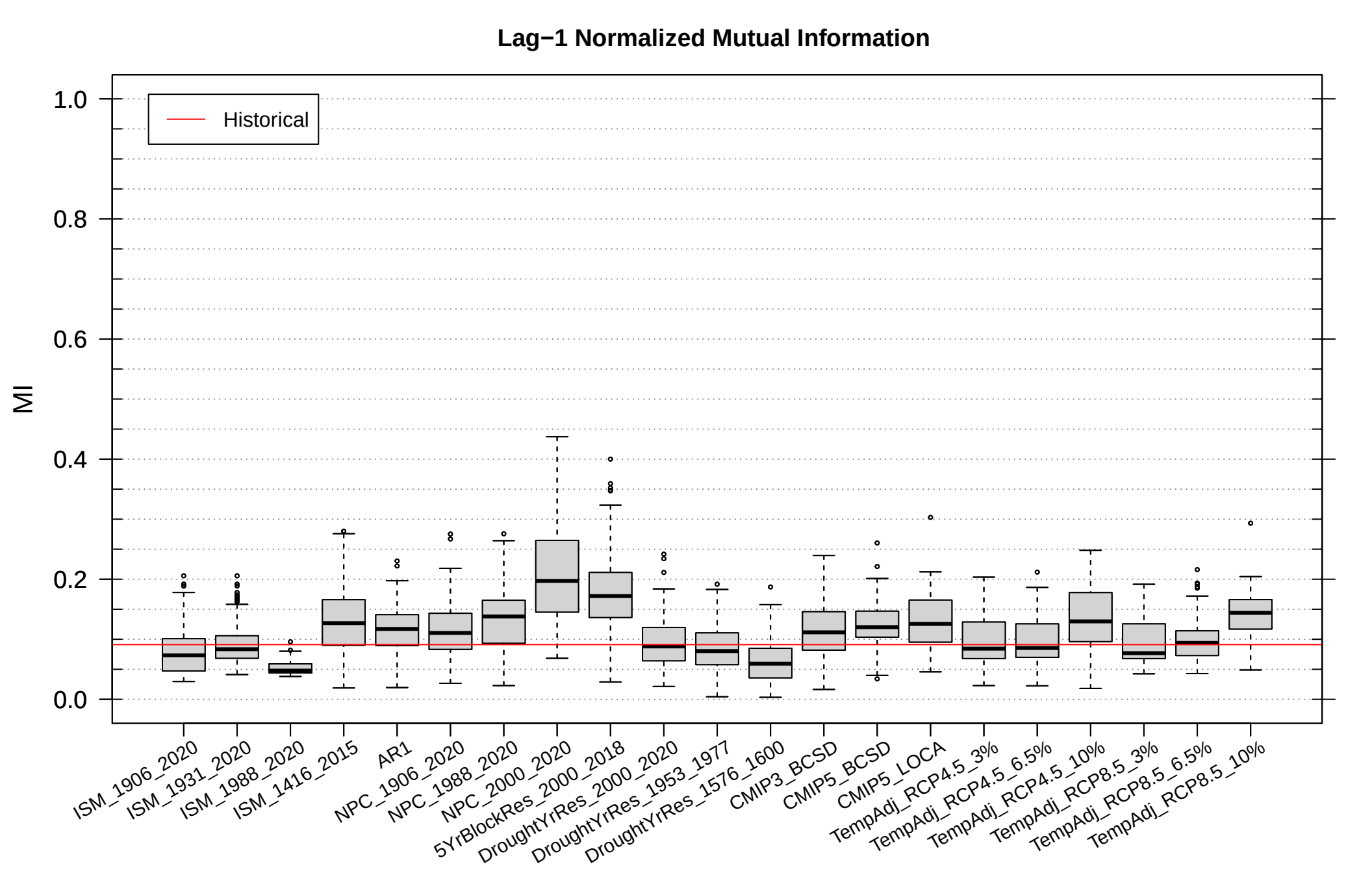

Duration−Severity Analysis, Ensemble: TempAdj_RCP4.5_6.5%
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Duration−Severity Analysis, Ensemble: TempAdj_RCP4.5_10%
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Duration−Severity Analysis, Ensemble: TempAdj_RCP8.5_3%
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Duration−Severity Analysis, Ensemble: TempAdj_RCP8.5_6.5%
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Duration−Severity Analysis, Ensemble: TempAdj_RCP8.5_10%
Tree−ring−reconstructed natural flow
Full period (1416−2015)
Post−2000 (2000−2015)
Long−term mean (1416−2015)
Observed natural flow
Full period (1906−2020)
Post−2000 (2000−2020)
Long−term mean (1906−2020)
14.74
14.33
Minimum Duration−Severity of the Ensemble
10% to 90%
Minimum, 10%, Median, 90%, Maximum
Mean flow (maf/yr)
Duration (yrs)


Lag−1 Normalized Mutual Information
MI
1.0
0.8
0.6
0.4
0.2
0.0
Historical
ISM_1906_2020
ISM_1931_2020
ISM_1988_2020
ISM_1416_2015
AR1
NPC_1906_2020
NPC_1988_2020
NPC_2000_2020
5YrBlockRes_2000_2018
DroughtYrRes_2000_2020
DroughtYrRes_1953_1977
DroughtYrRes_1576_1600
CMIP3_BCSD
CMIP5_BCSD
CMIP5_LOCA
TempAdj_RCP4.5_3%
TempAdj_RCP4.5_6.5%
TempAdj_RCP4.5_10%
TempAdj_RCP8.5_3%
TempAdj_RCP8.5_6.5%
TempAdj_RCP8.5_10%