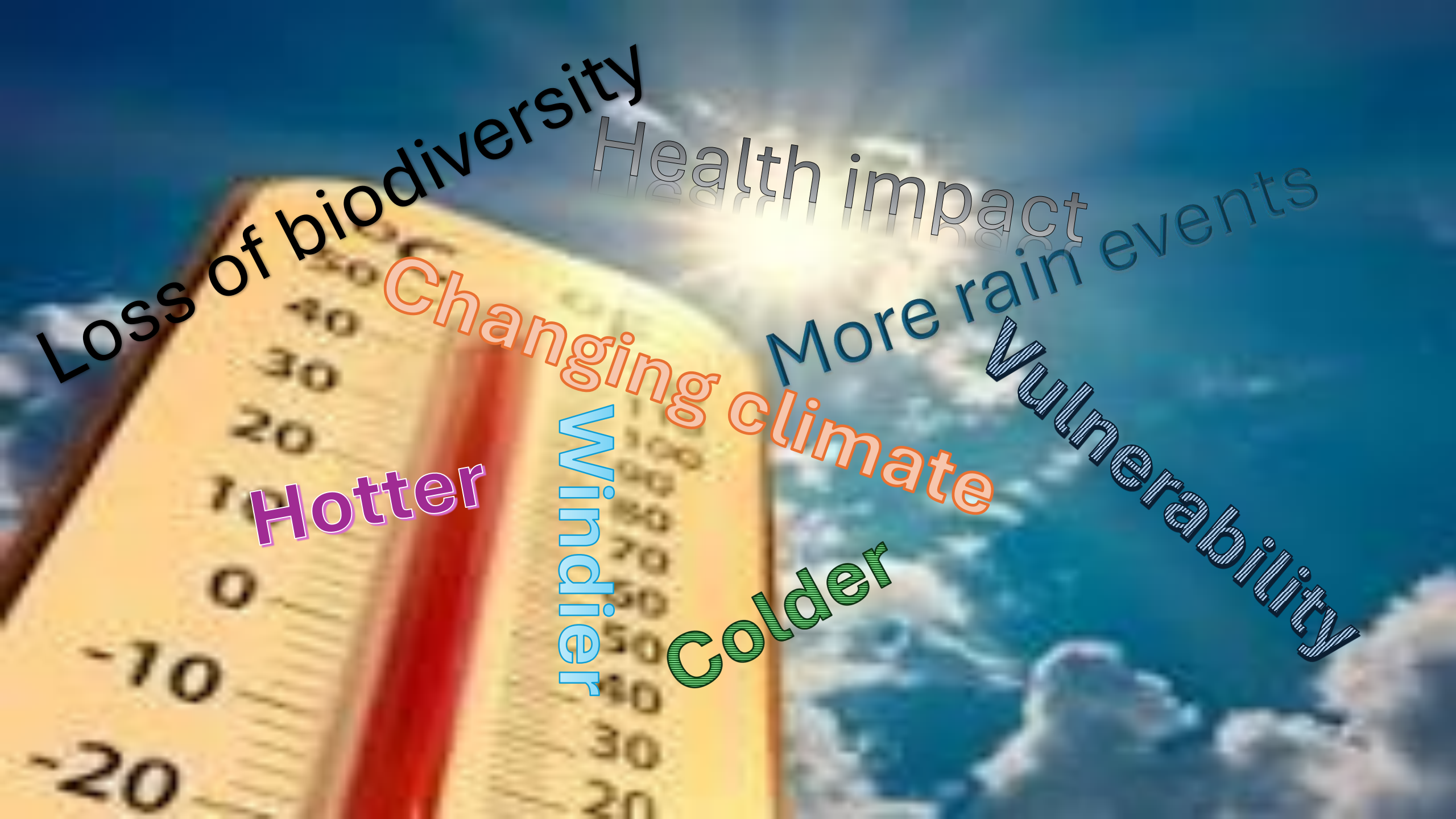


Healing Country

What stories
do the data
tell us?





Loss of biodiversity

Health impact

More rain events

Vulnerability

Changing climate

Hotter

Windier

Colder

AusEnHealth

AusEnHealth is Australia's first national digital environmental health decision support platform.

This open-source resource is designed to enable policy makers, health managers, and researchers identify vulnerable populations, predict future disease burden, and plan for a changing climate in a coordinated, timely manner.



8

Collaborating
Organisations



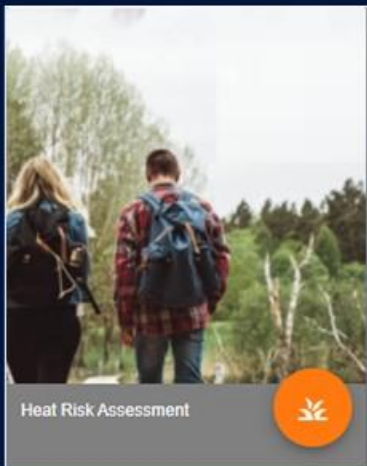
183

Environmental
Health
Variables



12

Vulnerability
Indices



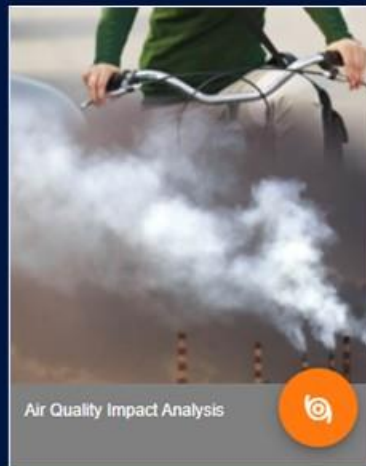
Heat Risk Assessment



Climate Change Assessment



Heat Health Data Analytics



Air Quality Impact Analysis



Air Quality Public Awareness



Air Quality Campaign Awareness



Heat Risk Assessment SA3 level

[Go to SA2 Level](#)

Search

Filter By
Year

Year
2020

Filter

Download Data

Heat Factor

Cold Factor

Please click ⓘ on the columns for more functionality

Region	Spatial %	Historical Daily %	Heat Factor %
Queanbeyan	45.67	49.7	78.27
Snowy Mountains	65.07	64.58	92.56
South Coast	81.79	78.27	30.95
Goulburn - Murrumbidgee	33.13	42.86	88.1
Young - Yass	38.21	42.56	77.38
Gosford	59.4	53.57	49.4
Wyong	65.07	50.6	47.62
Bathurst	43.28	44.35	80.06
Lachlan Valley	29.85	21.43	81.85
Lithgow - Mudgee	29.85	30.65	76.19
Orange	31.34	33.04	90.48
Clarence Valley	65.07	65.77	25.3
Coffs Harbour	81.79	67.26	25.89
Bourke - Cobar - Coonamble	33.13	34.52	87.2
Broken Hill and Far West	11.64	8.04	83.33
Dubbo	31.34	29.76	89.58
Lower Hunter	48.96	52.38	65.48
Maitland	59.4	50.3	59.82
Port Stephens	33.13	35.42	51.79
Upper Hunter	33.13	31.55	55.65
Dapto - Port Kembla	59.4	60.42	48.21
Illawarra Catchment Reserve	48.96	48.51	62.2
Kiama - Shellharbour	59.4	63.1	49.11
Wollongong	59.4	52.98	50
Great Lakes	48.96	47.32	38.39



Filter
Filter Indicator
Heat High %

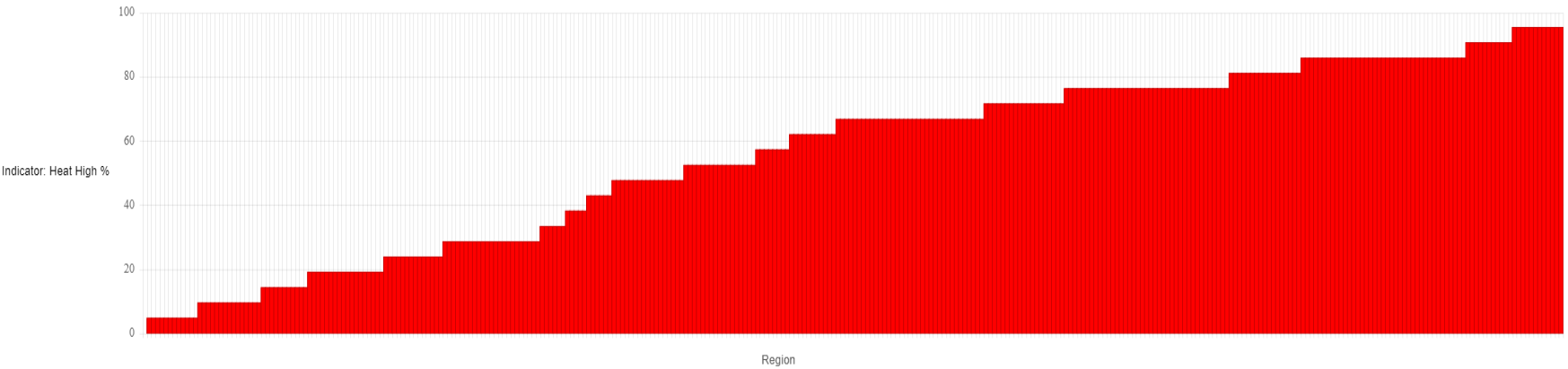
Click ⓘ for more information about legend

- 80 to 100
- 60 to 80
- 40 to 60
- 20 to 40
- 0 to 20

Google

Benchmark

Temporal



1

Filter By

Year

2020

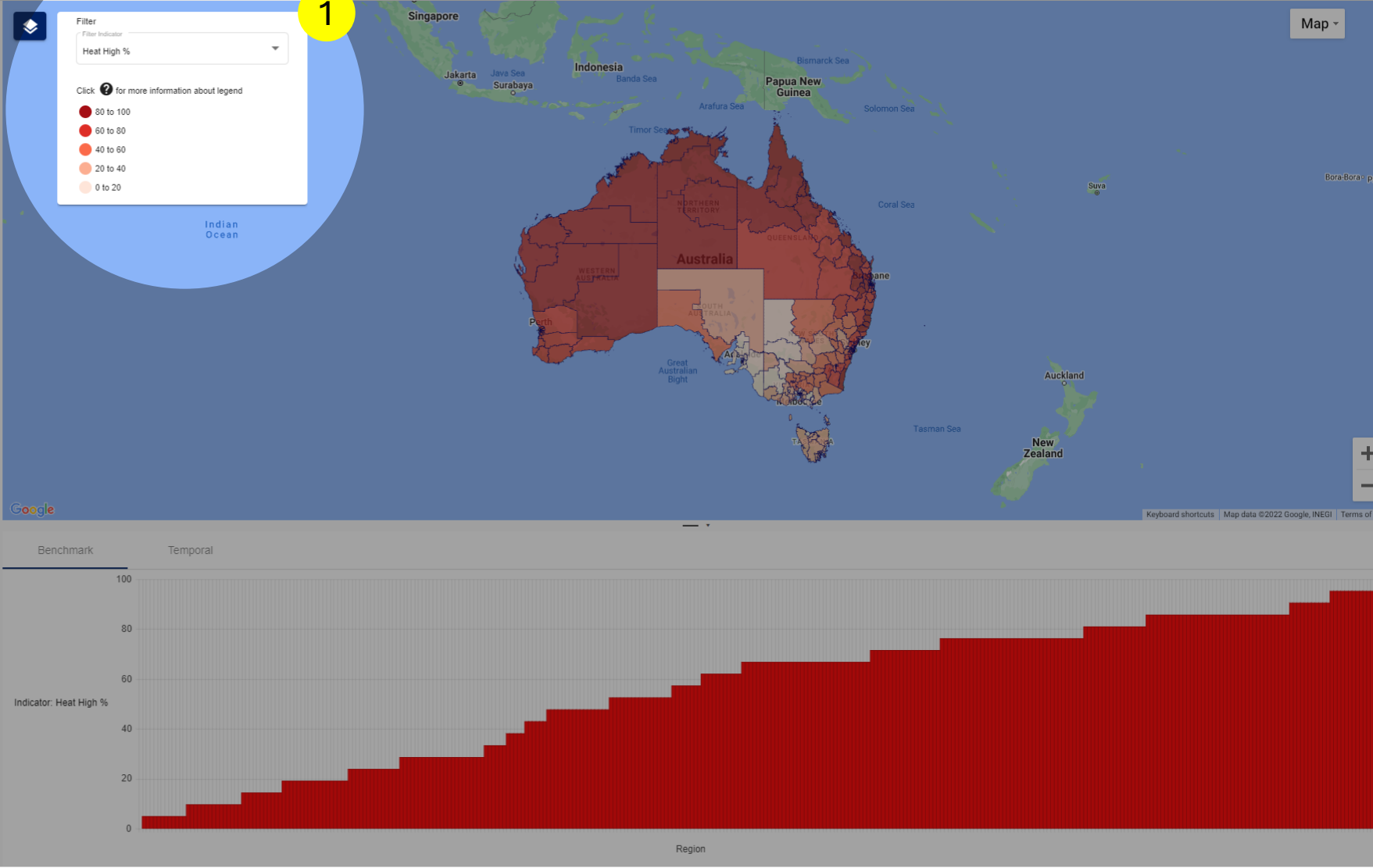
Filter

Download Data

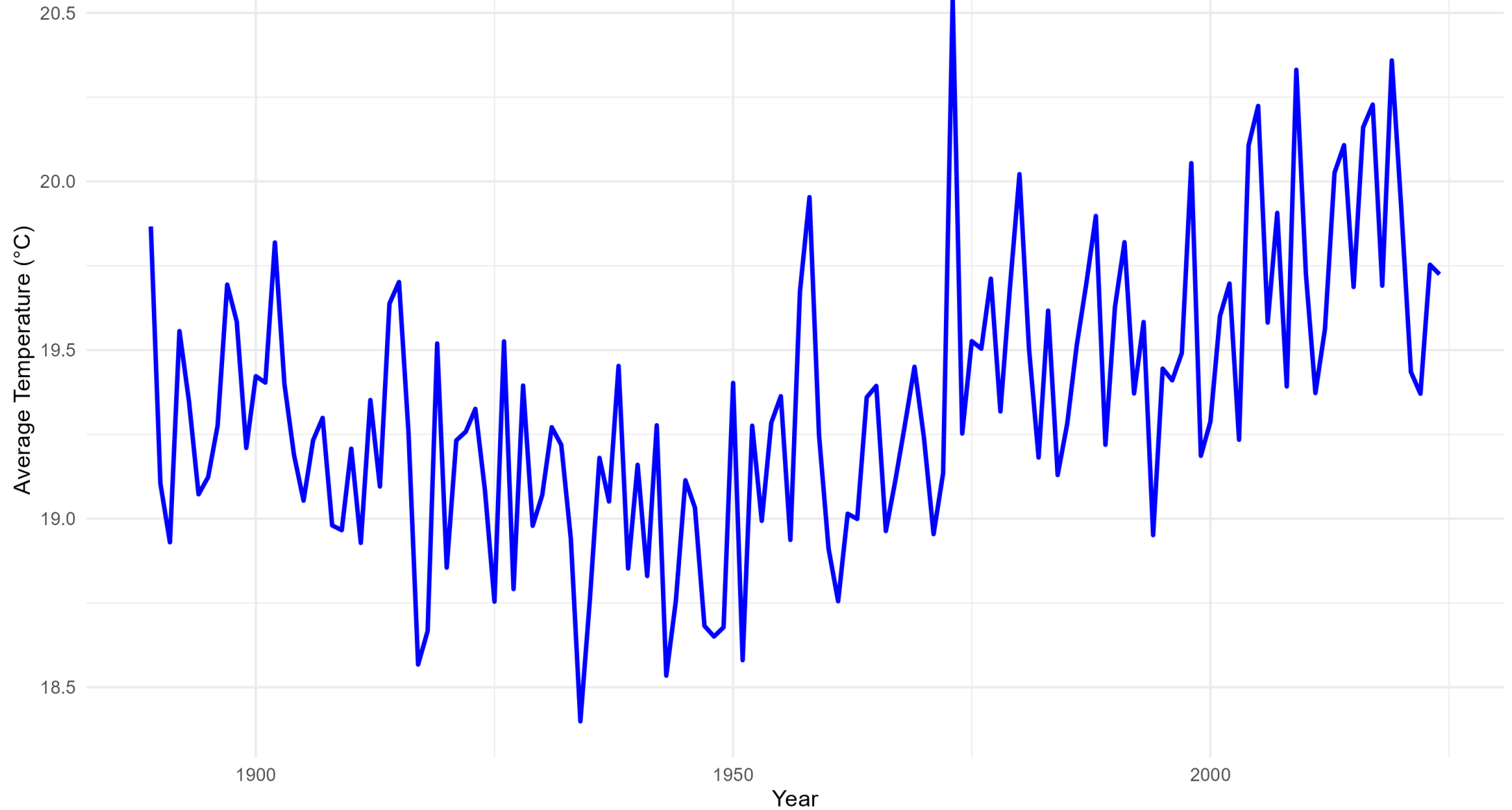
Heat FactorCold Factor

Please click + on the columns for more functionality

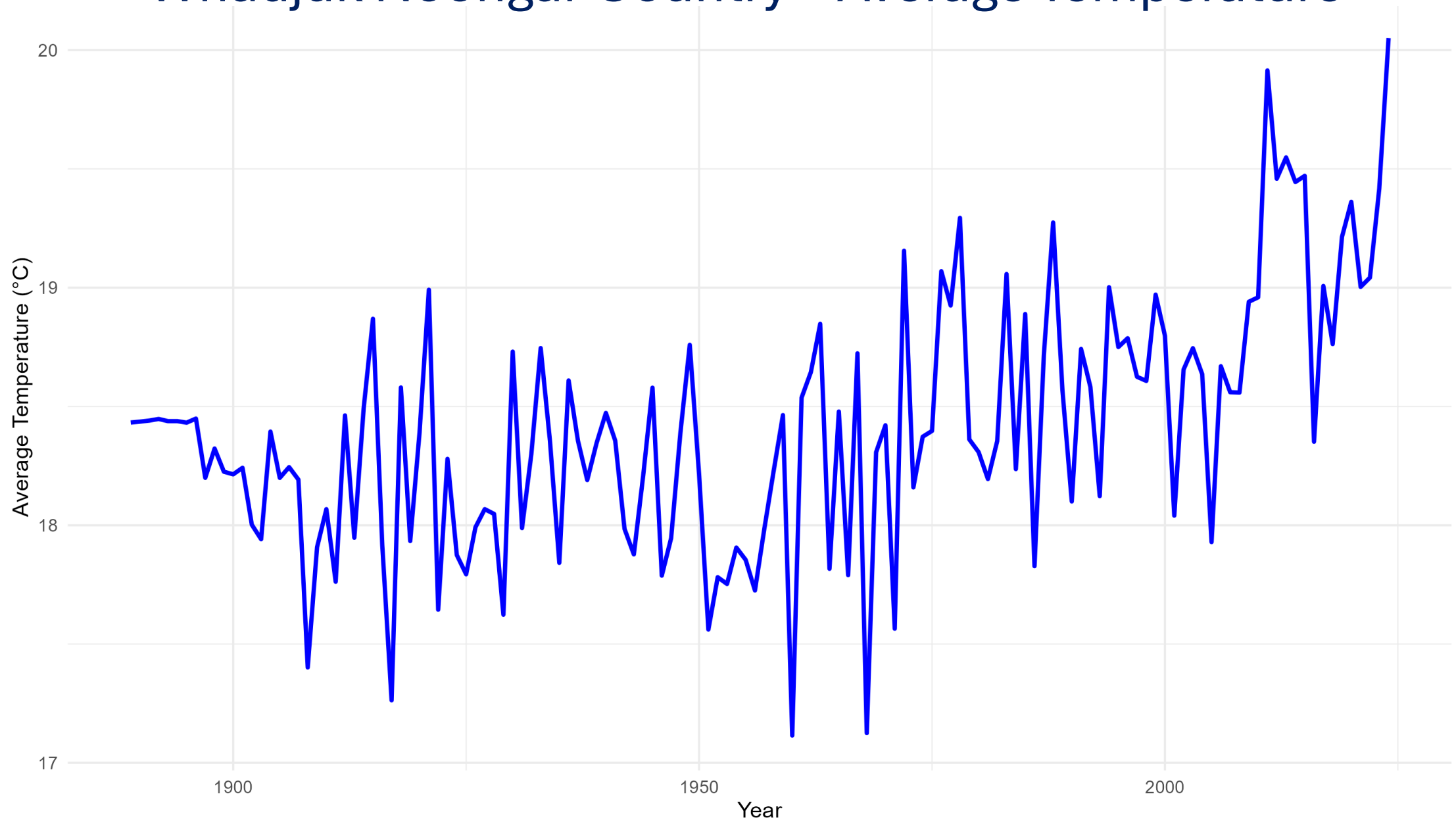
Region	Spatial %	Historical Daily %	Heat Factor %
Queanbeyan	45.67	49.7	78.27
Snowy Mountains	65.07	64.58	92.56
South Coast	81.79	78.27	30.95
Goulburn - Murrumbidgee	33.13	42.86	88.1
Young - Yass	38.21	42.56	77.38
Gosford	59.4	53.57	49.4
Wyong	65.07	50.6	47.62
Bathurst	43.28	44.35	80.06
Lachlan Valley	29.85	21.43	81.85
Lithgow - Mudgee	29.85	30.65	76.19
Orange	31.34	33.04	90.48
Clarence Valley	65.07	65.77	25.3
Coffs Harbour	81.79	67.26	25.89
Bourke - Cobar - Coonamble	33.13	34.52	87.2
Broken Hill and Far West	11.64	8.04	83.33
Dubbo	31.34	29.76	89.58
Lower Hunter	48.96	52.38	65.48
Maitland	59.4	50.3	59.82
Port Stephens	33.13	35.42	51.79
Upper Hunter	33.13	31.55	55.65
Dapto - Port Kembla	59.4	60.42	48.21
Illawarra Catchment Reserve	48.96	48.51	62.2
Kiama - Shellharbour	59.4	63.1	49.11
Wollongong	59.4	52.98	50
Great Lakes	48.96	47.32	38.39



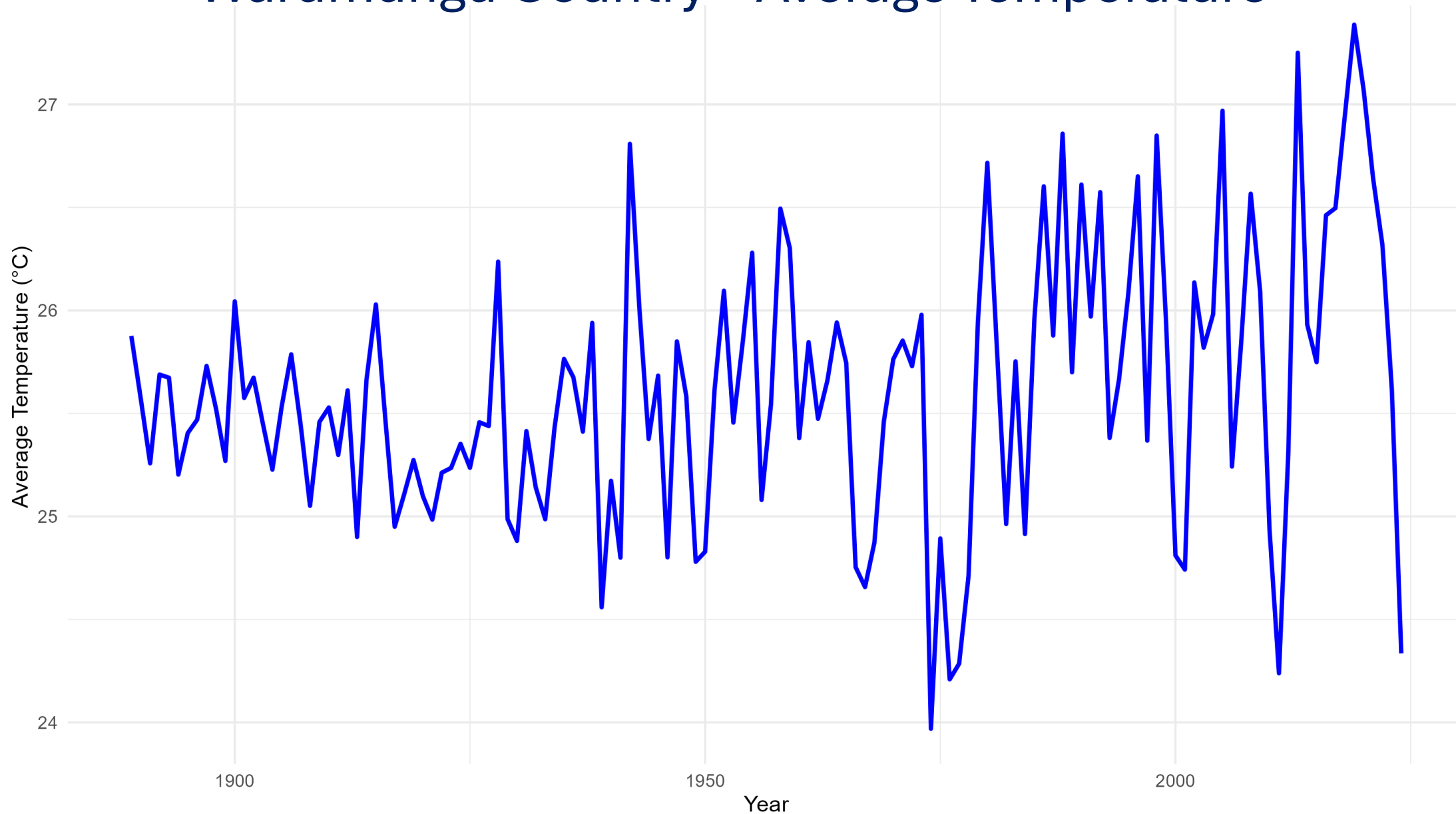
Bundjalung Country – Average Temperature



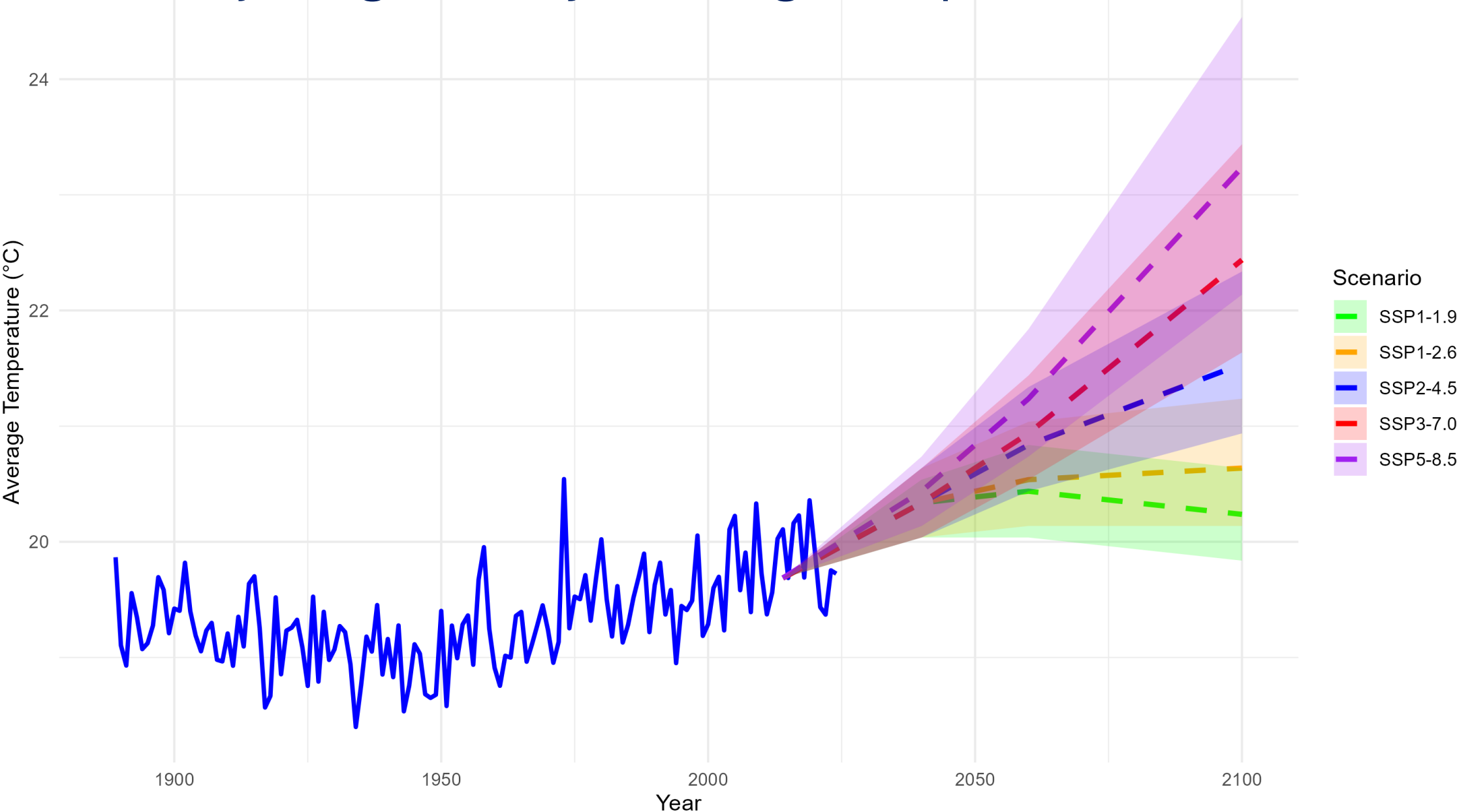
Whadjuk Noongar Country – Average Temperature



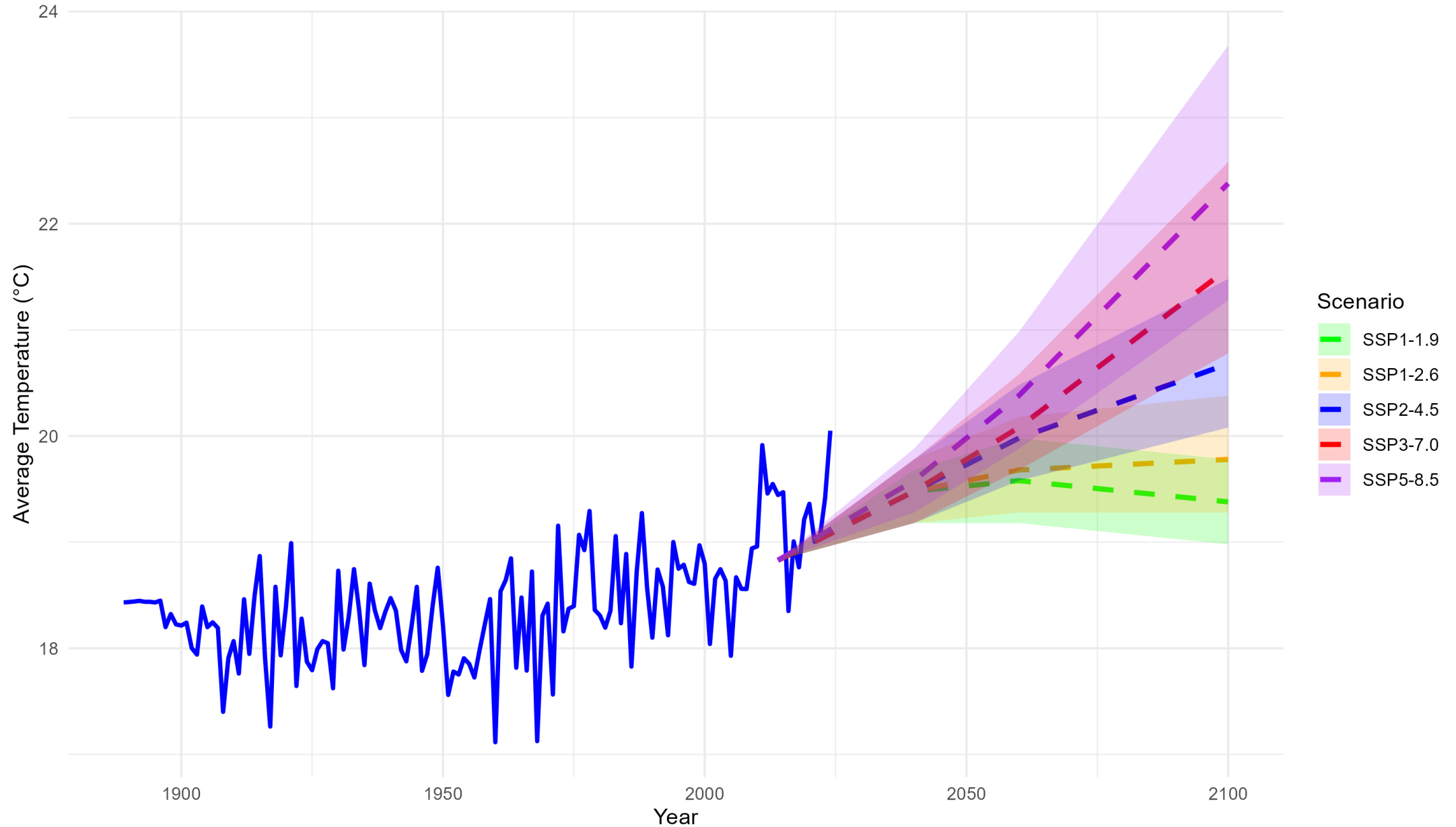
Warumungu Country – Average Temperature



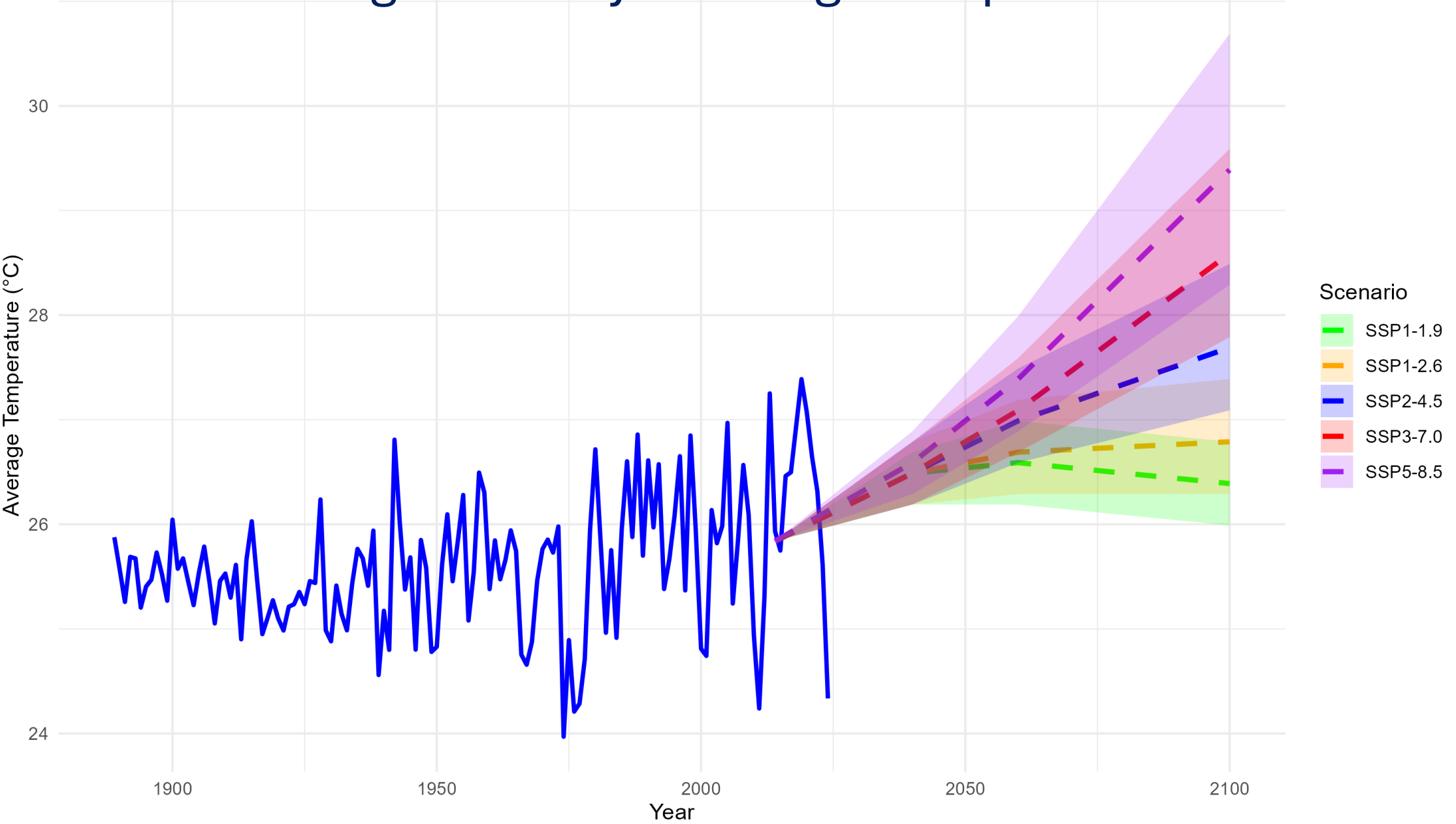
Bundjalung Country – Average Temperature



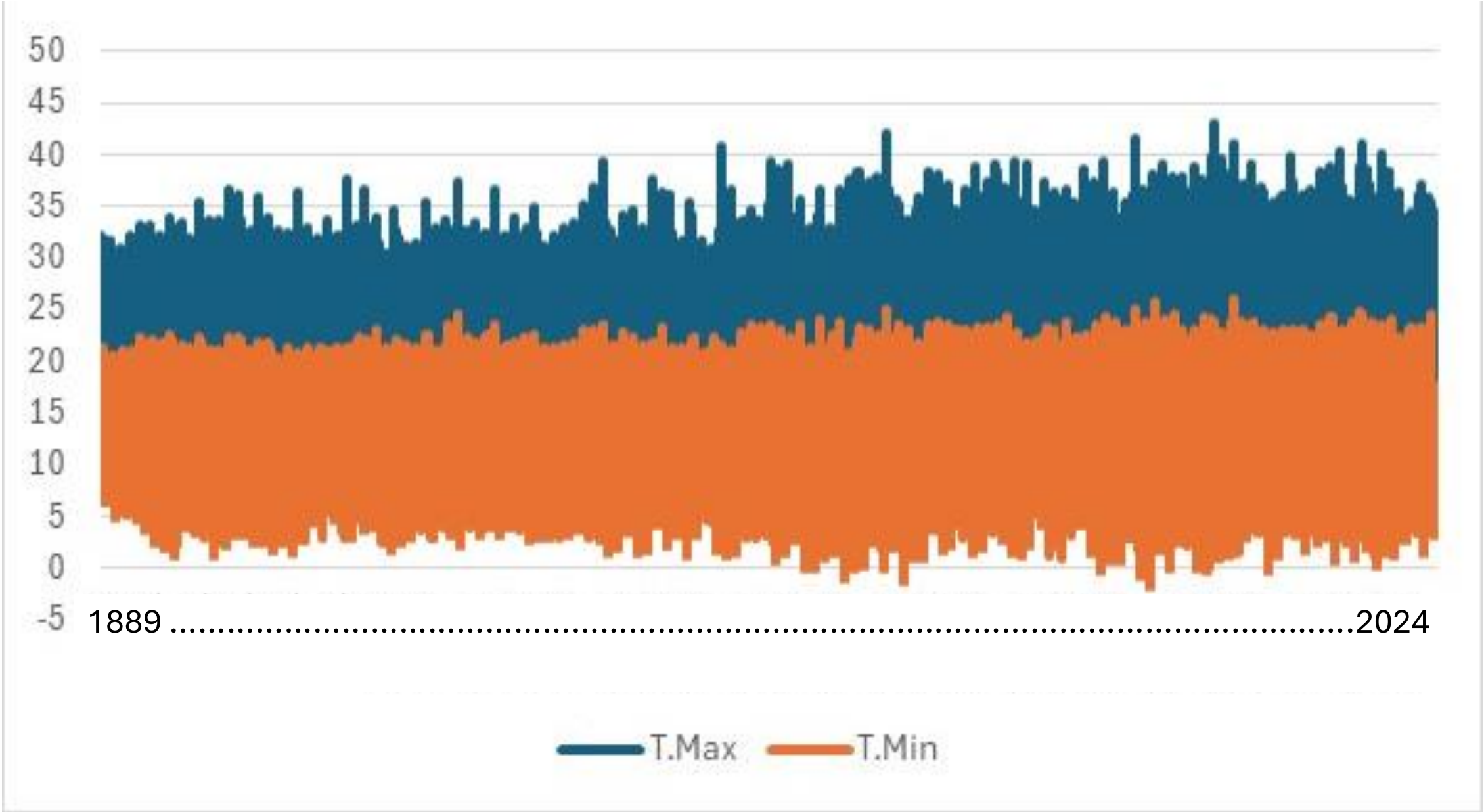
Whadjuk Noongar Country – Average Temperature



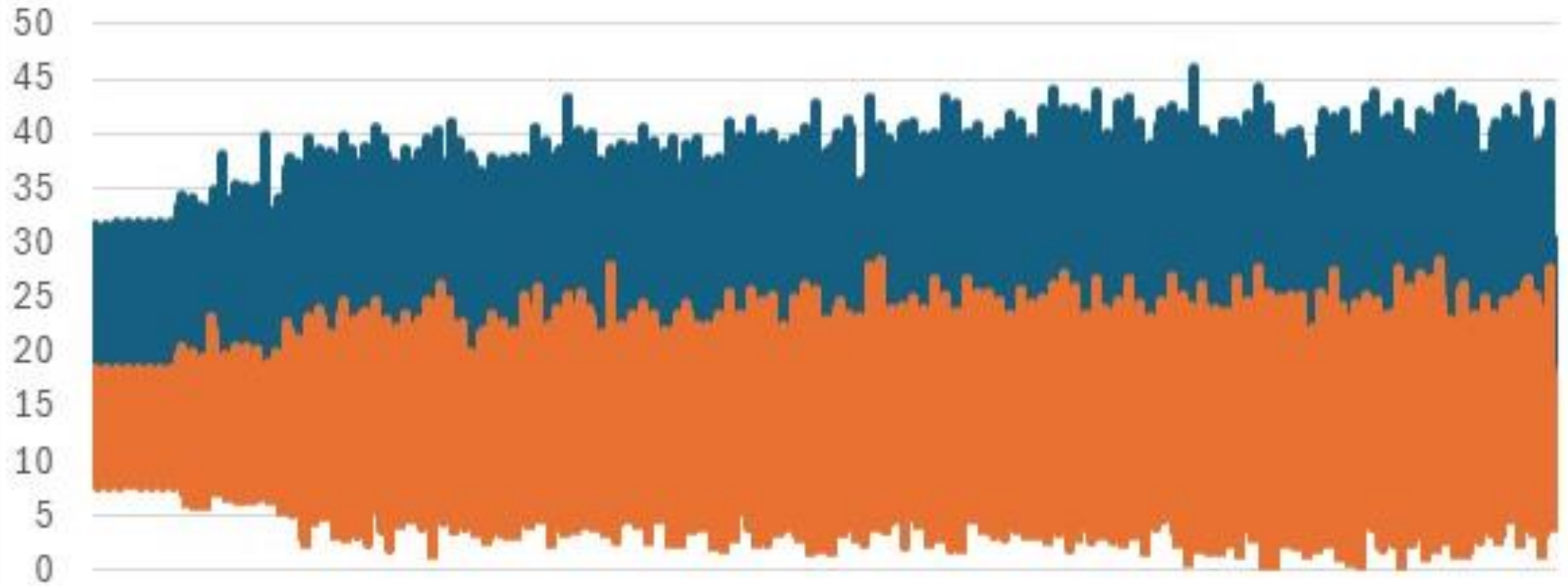
Warumungu Country – Average Temperature



Bundjalung Country – Min & Max Temperature



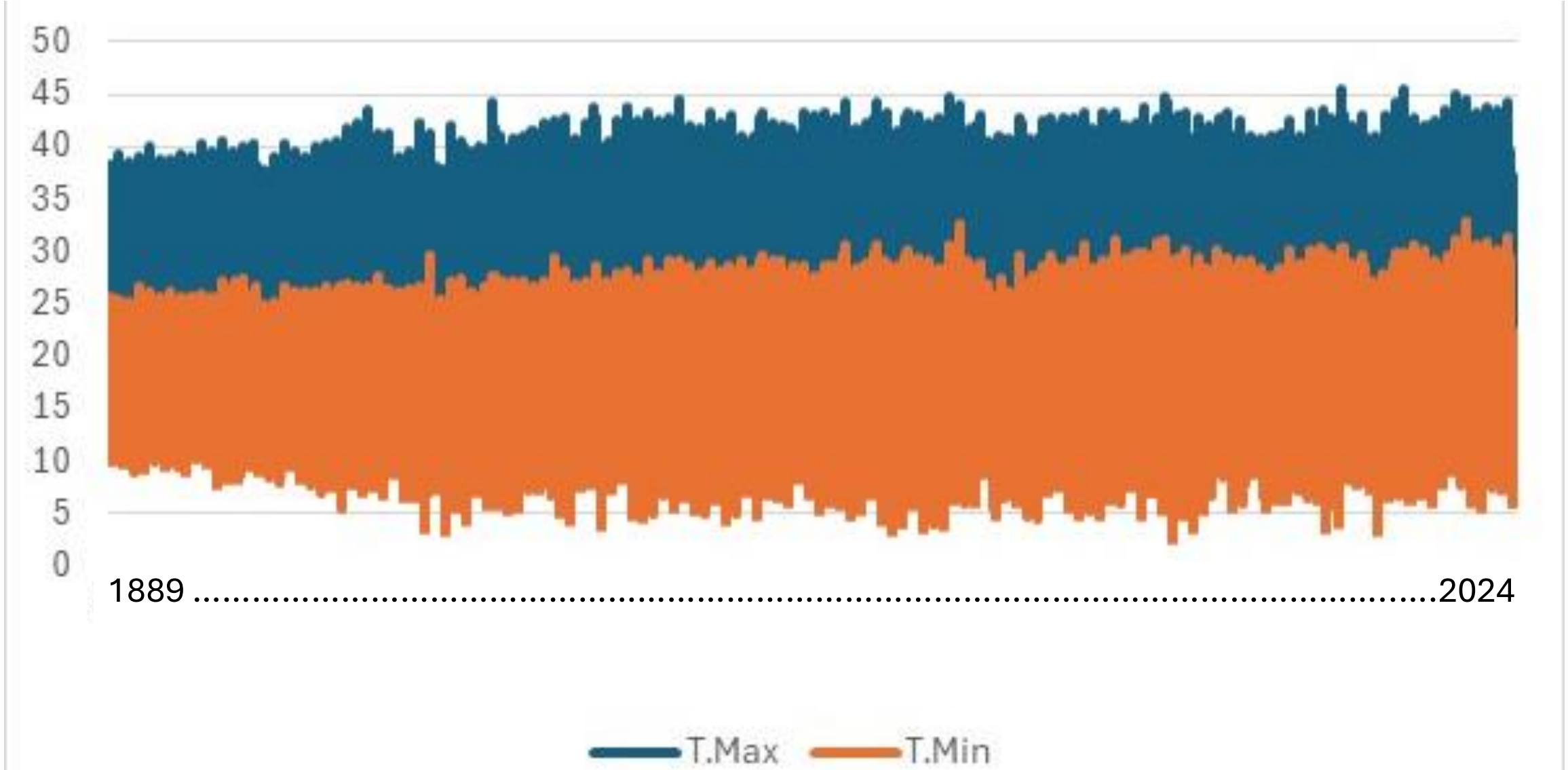
Whadjuk Noongar Country – Min & Max Temperature



18892024

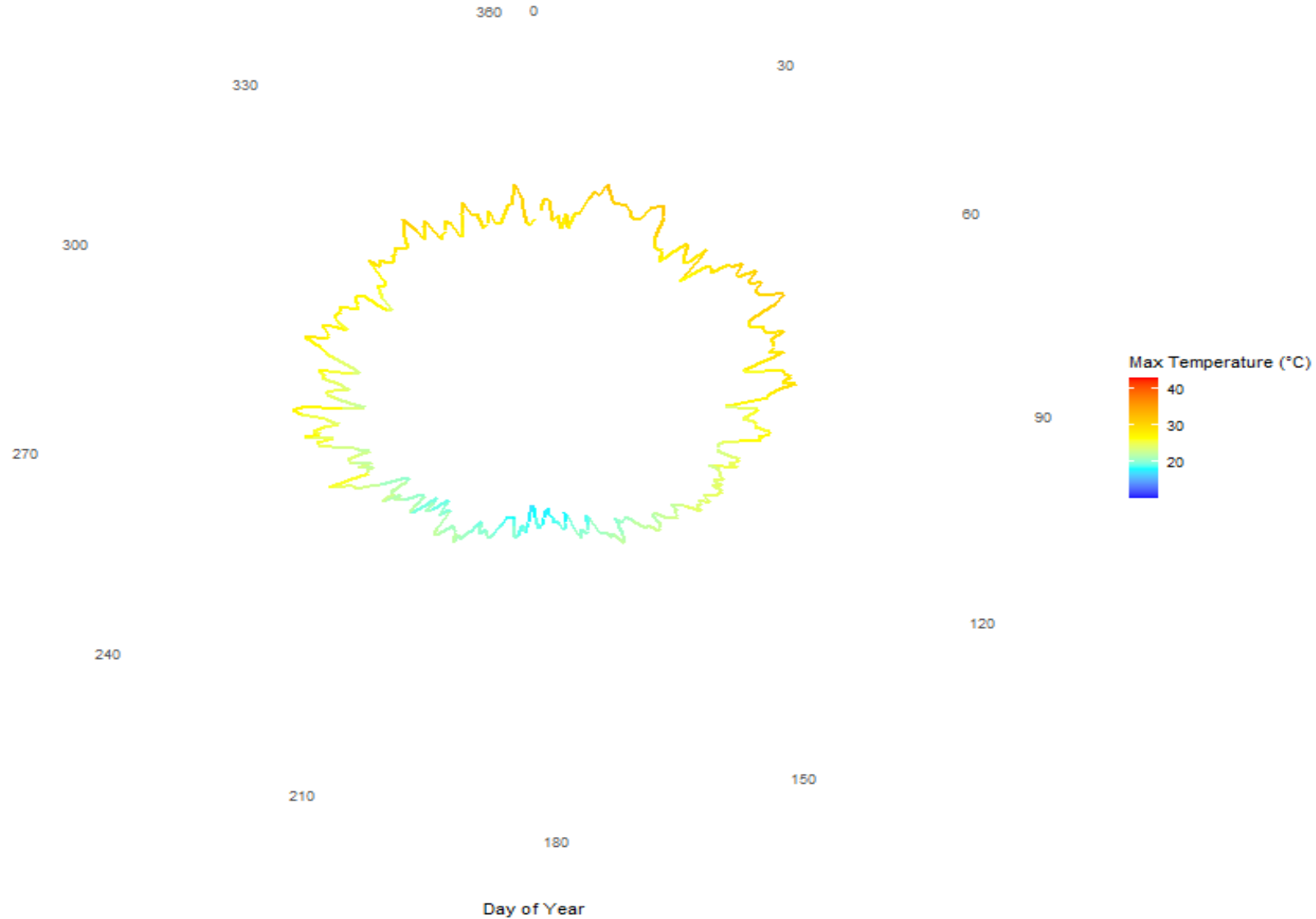
— T.Max — T.Min

Warumungu Country – Min & Max Temperatures



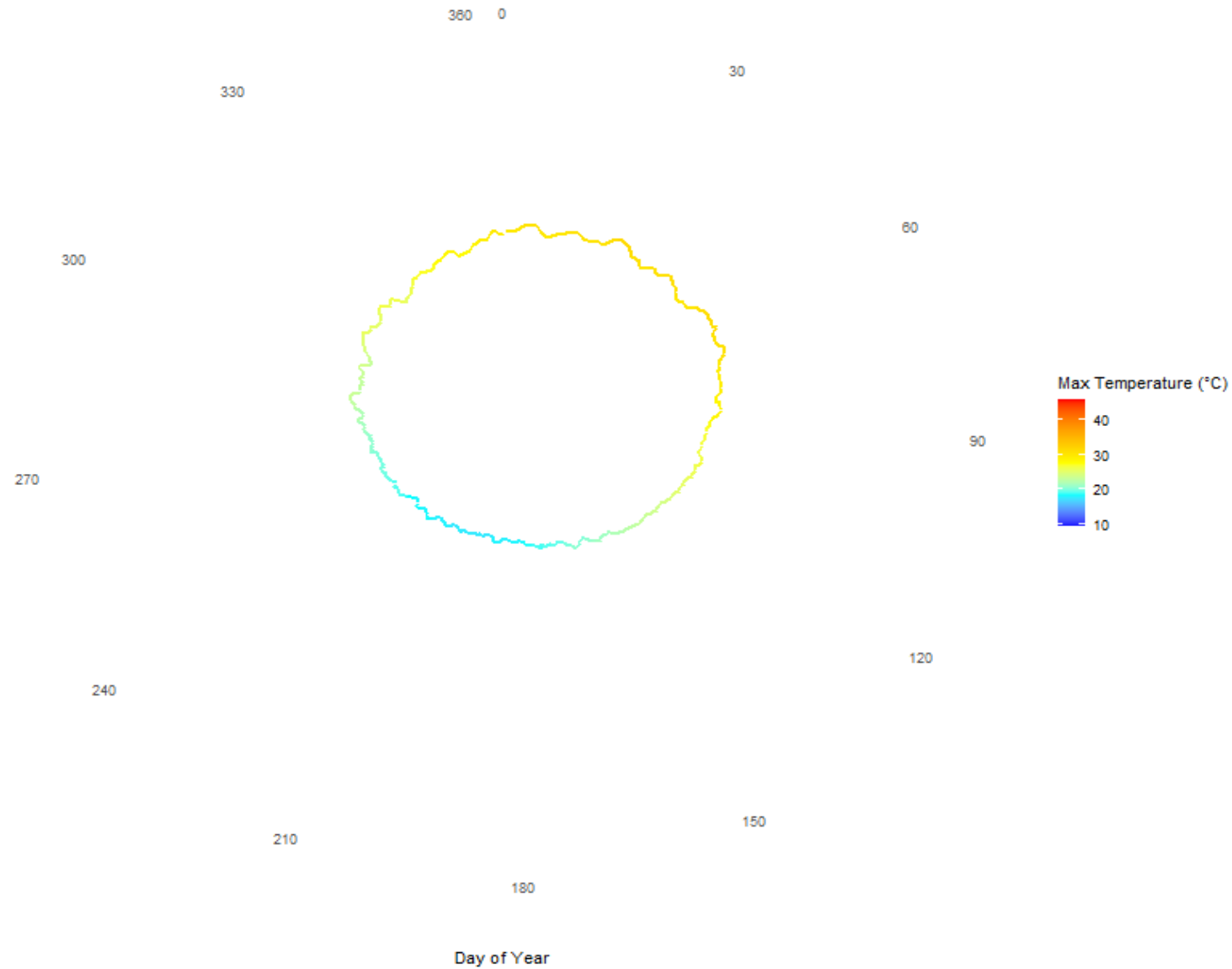
Bundjalung Country – Max. daily temperature

Year: 1889



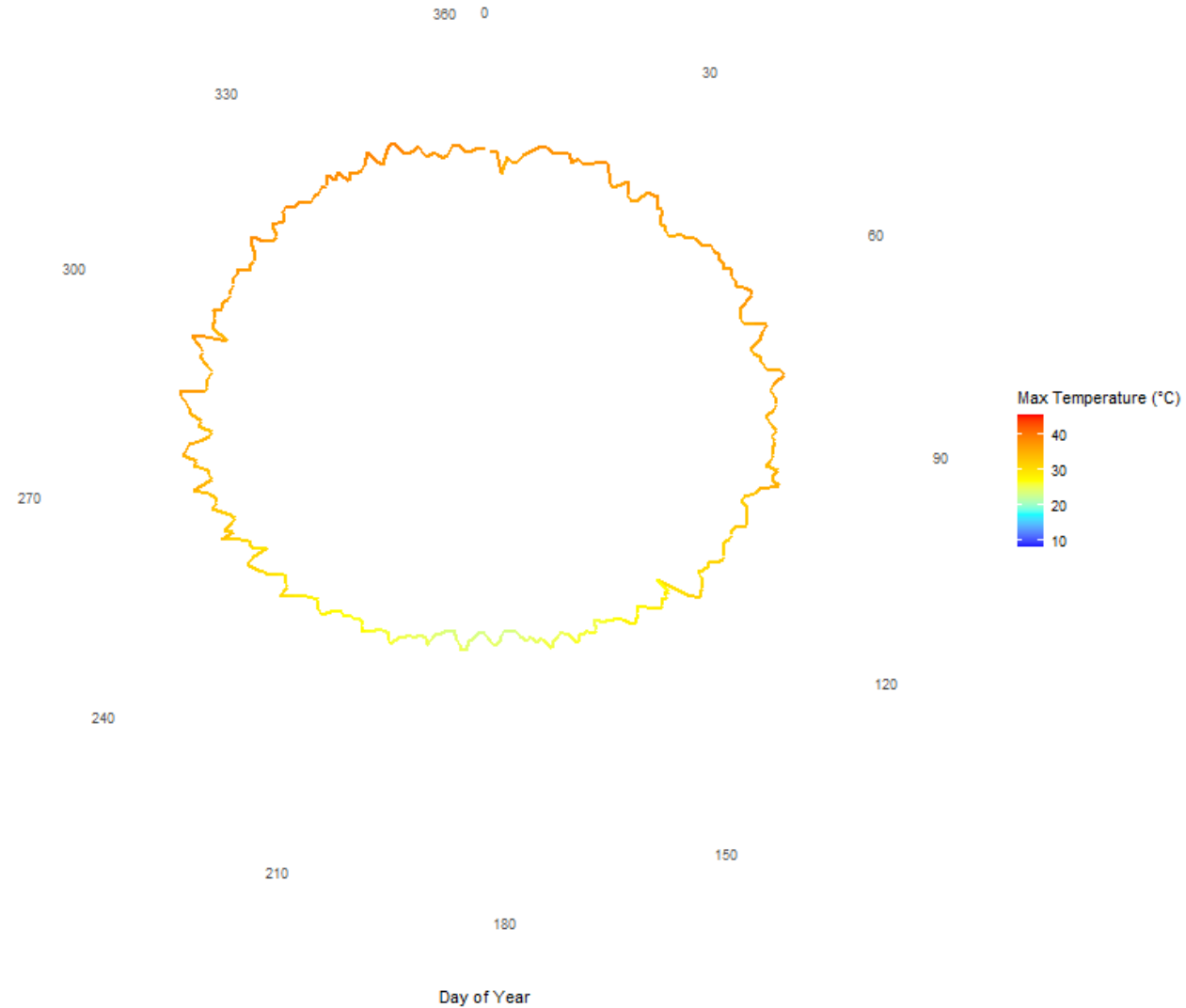
Warumungu Country – Max daily temperature

Year: 1889

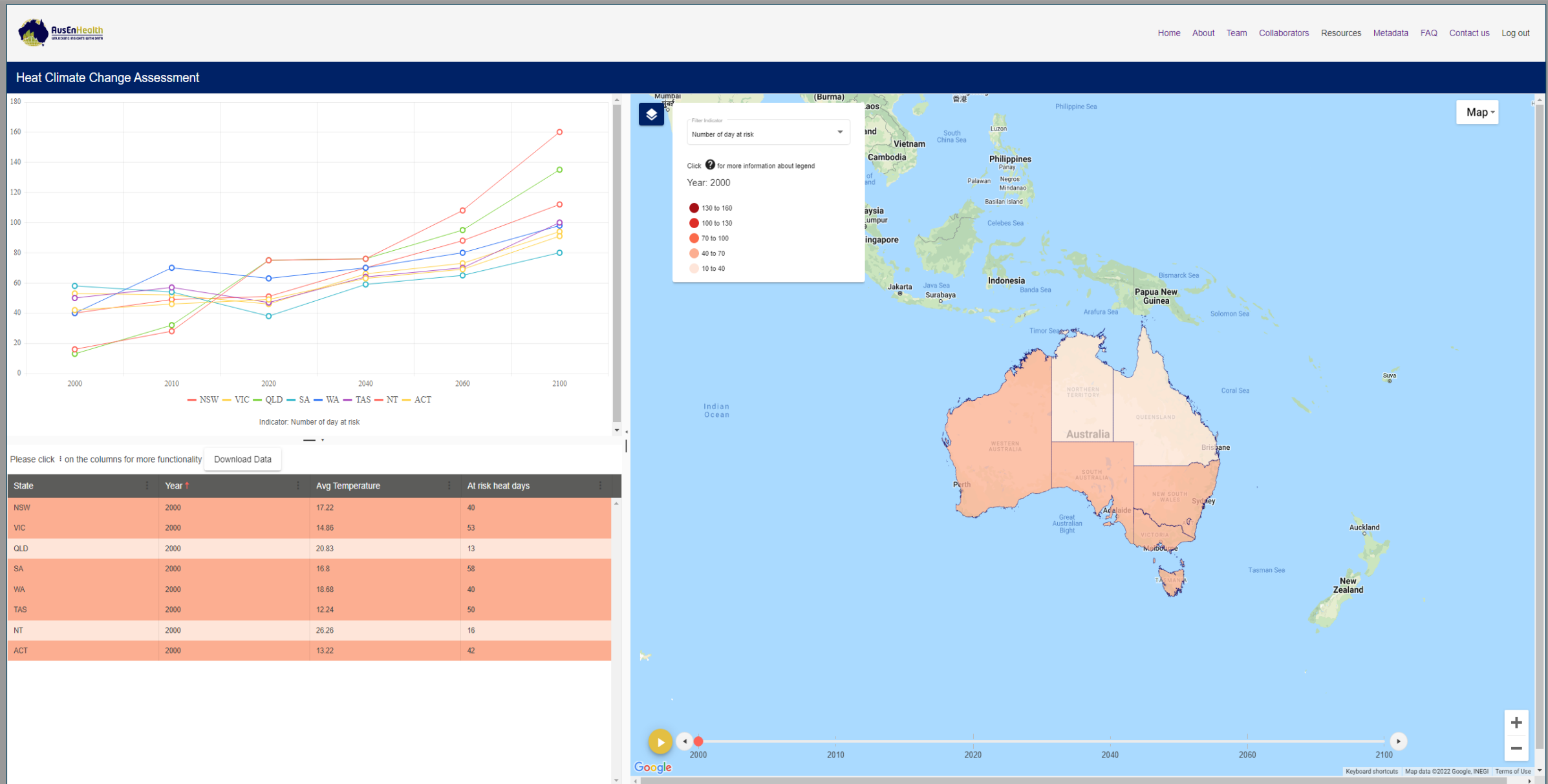


Whadjuk Noongar Country – Max daily temperature

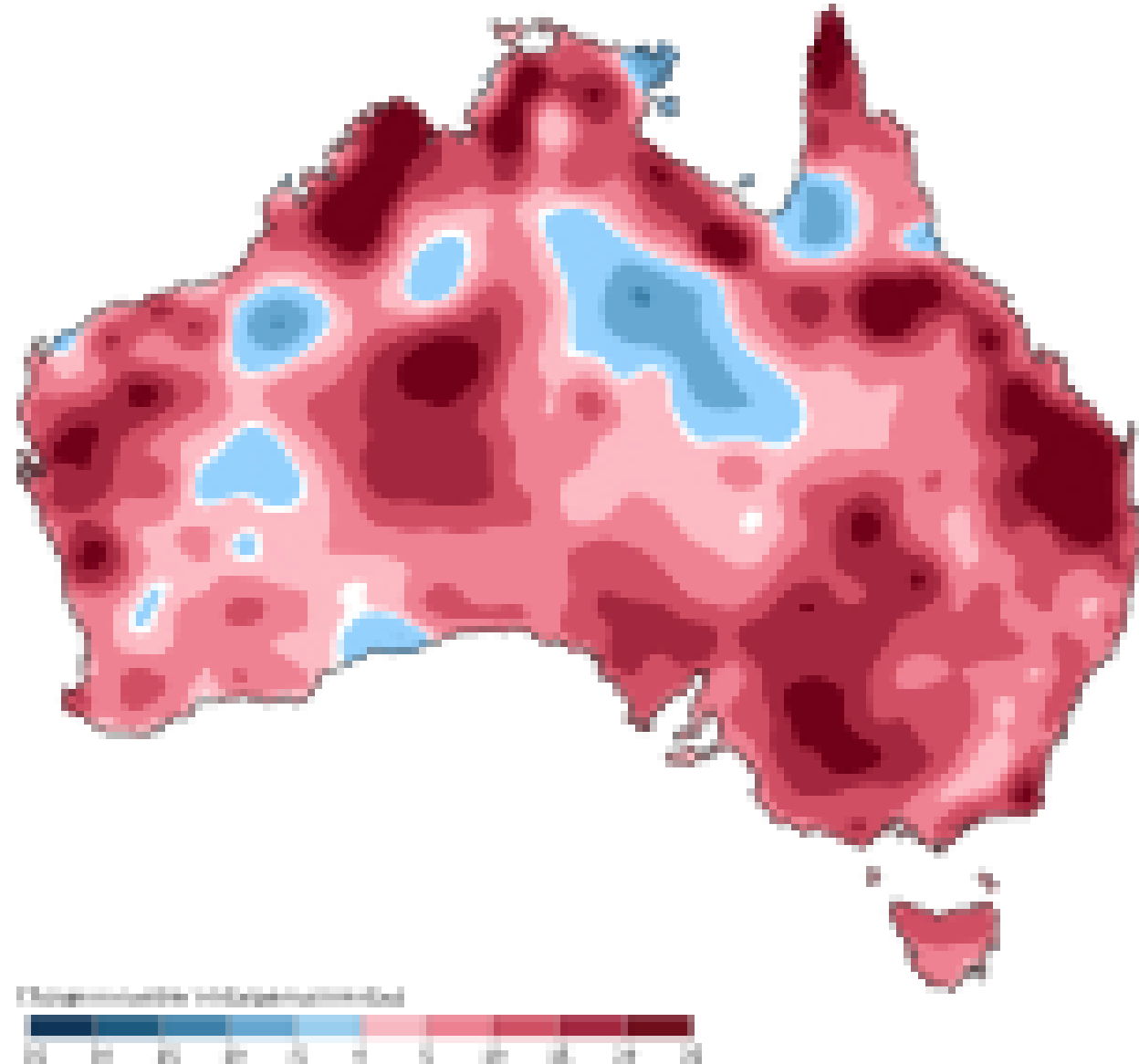
Year: 1889



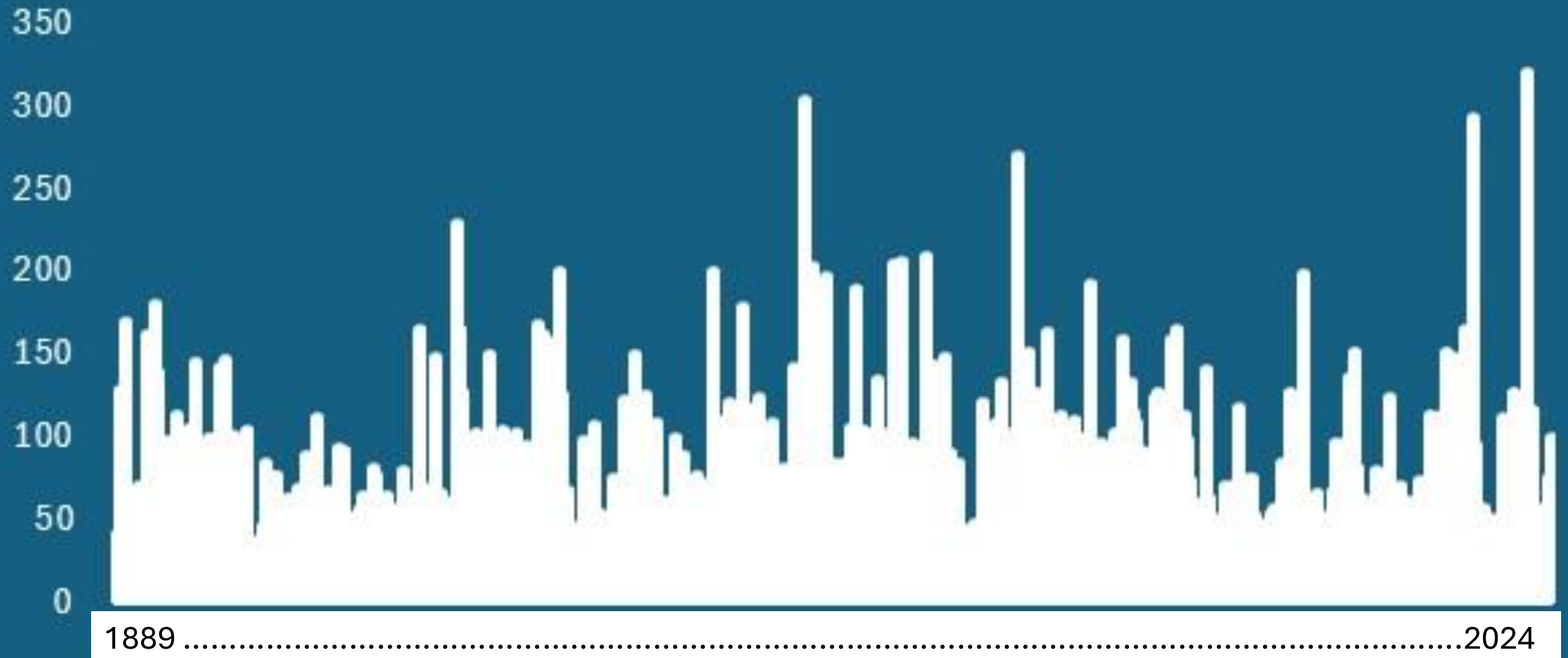
Heat indicators: e.g. number of days at risk (by State/Territory)



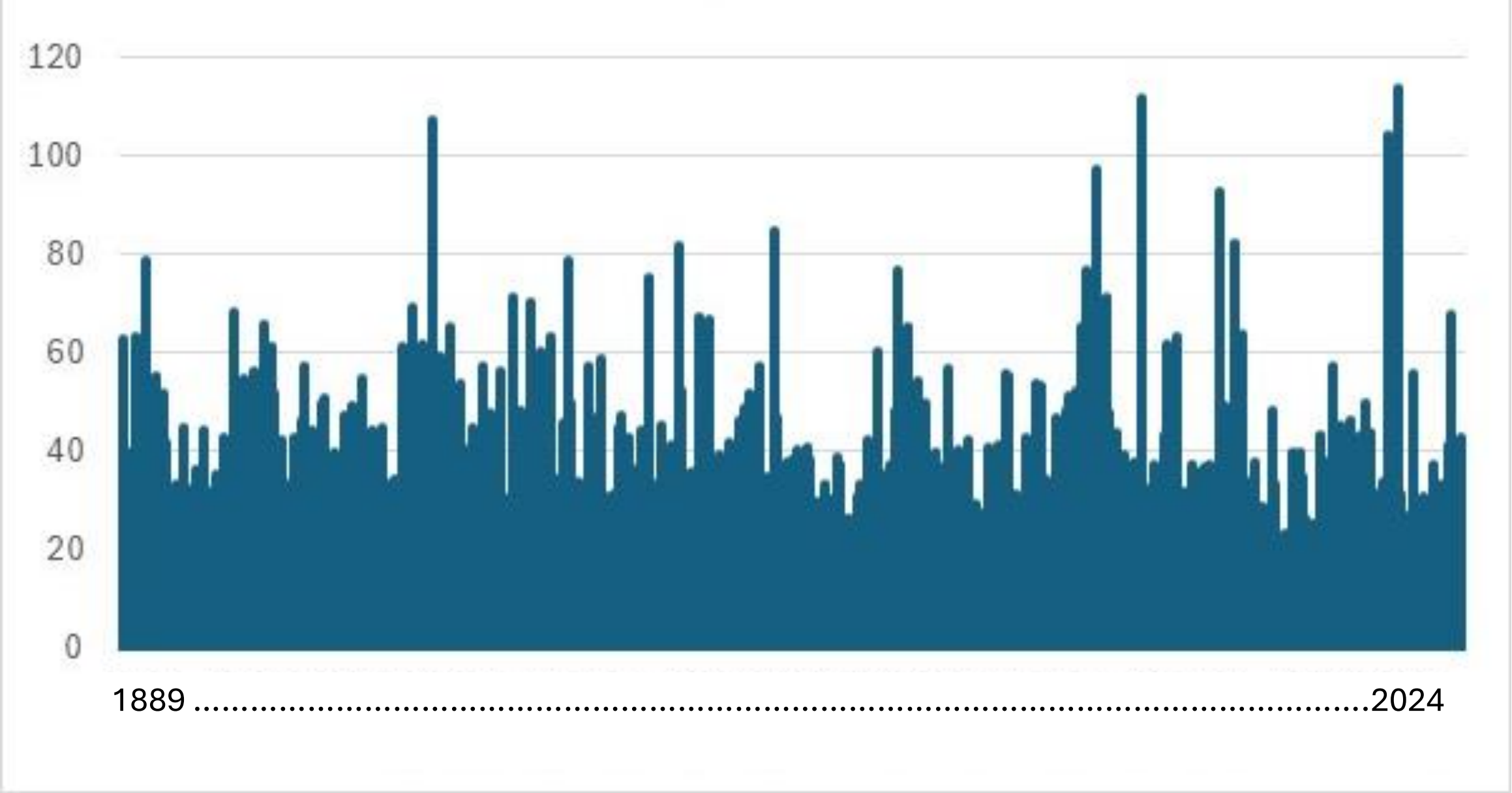
Changes in the number of dangerous fire days



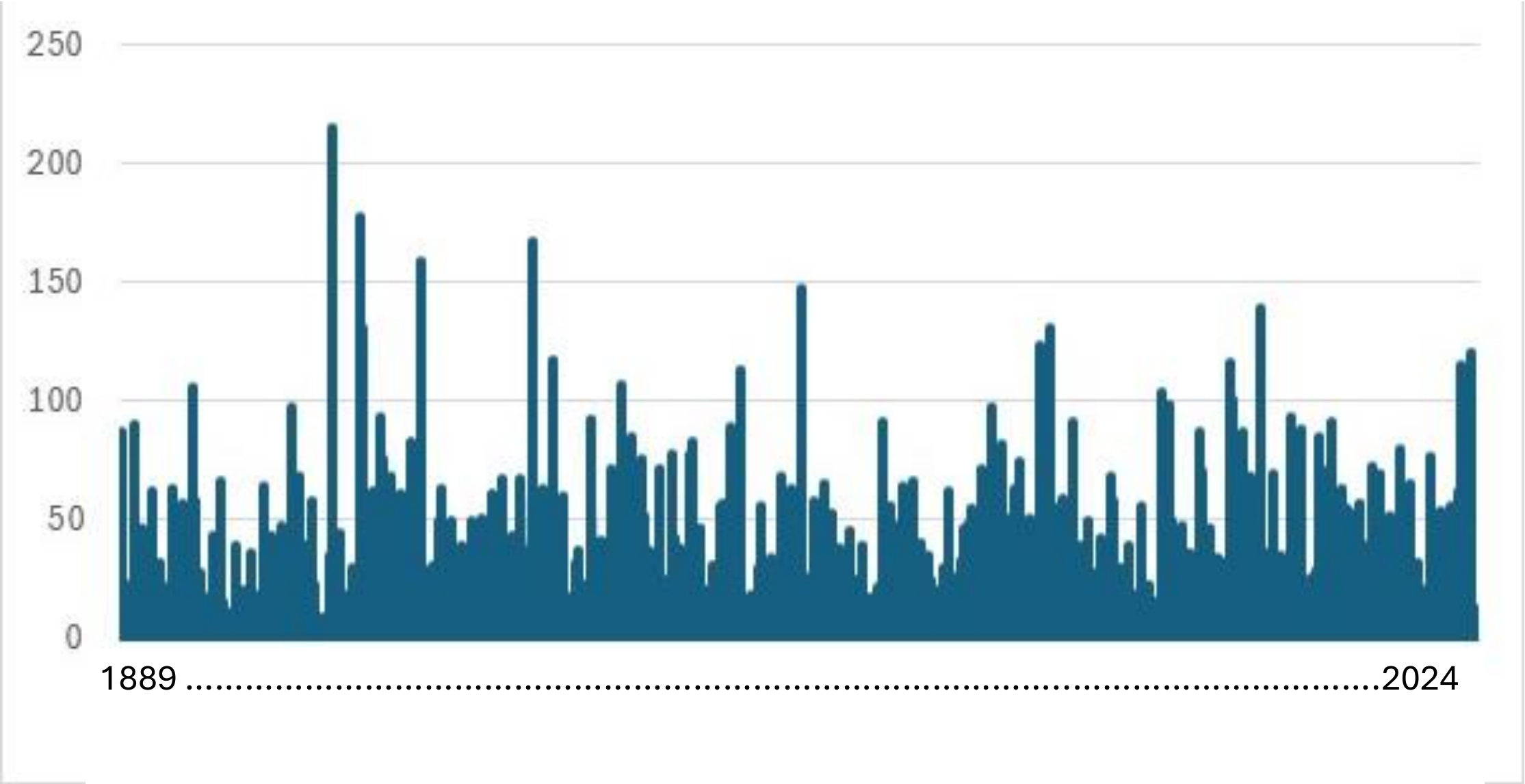
Bundjalung Country – Daily Rainfall



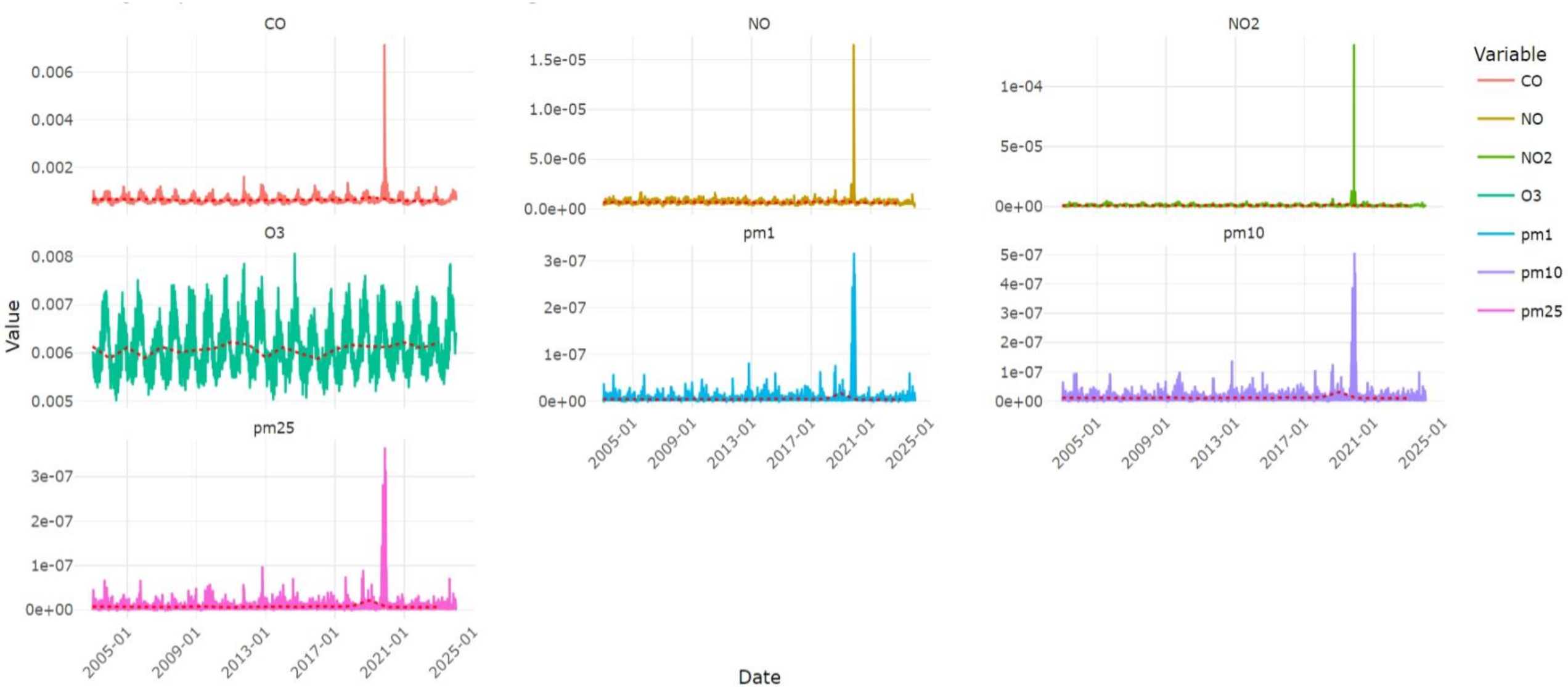
Whadjuk Noongar Country – Daily rainfall



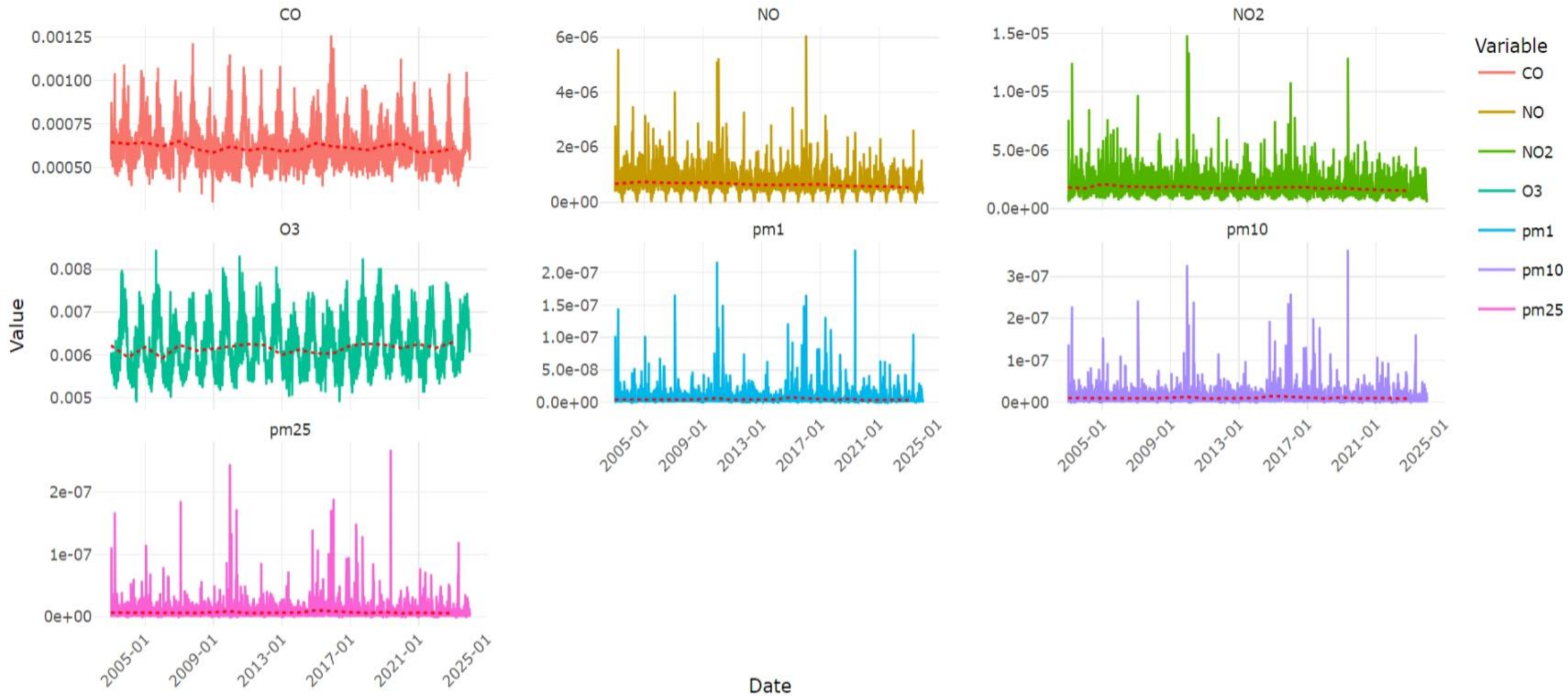
Warumungu Country – Daily rainfall



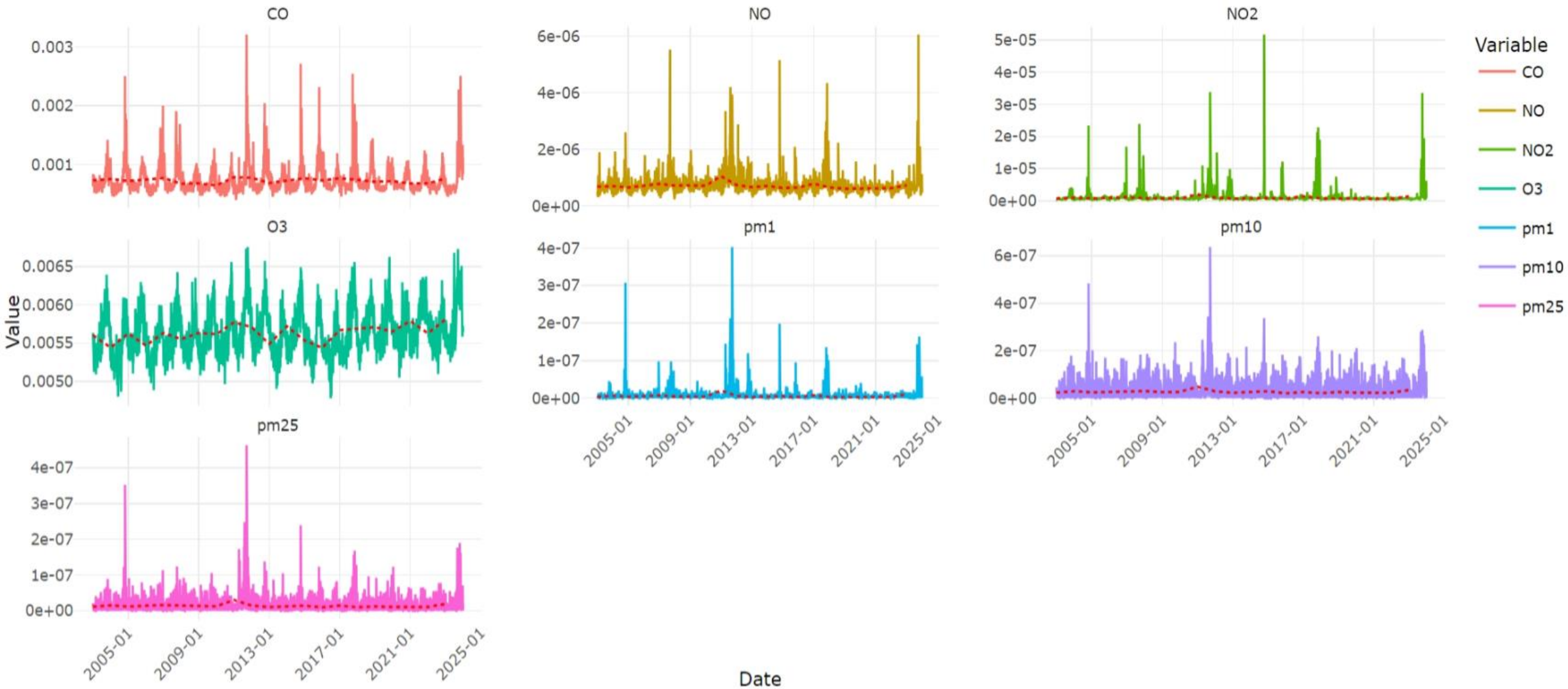
Bundjalung Country – Air quality



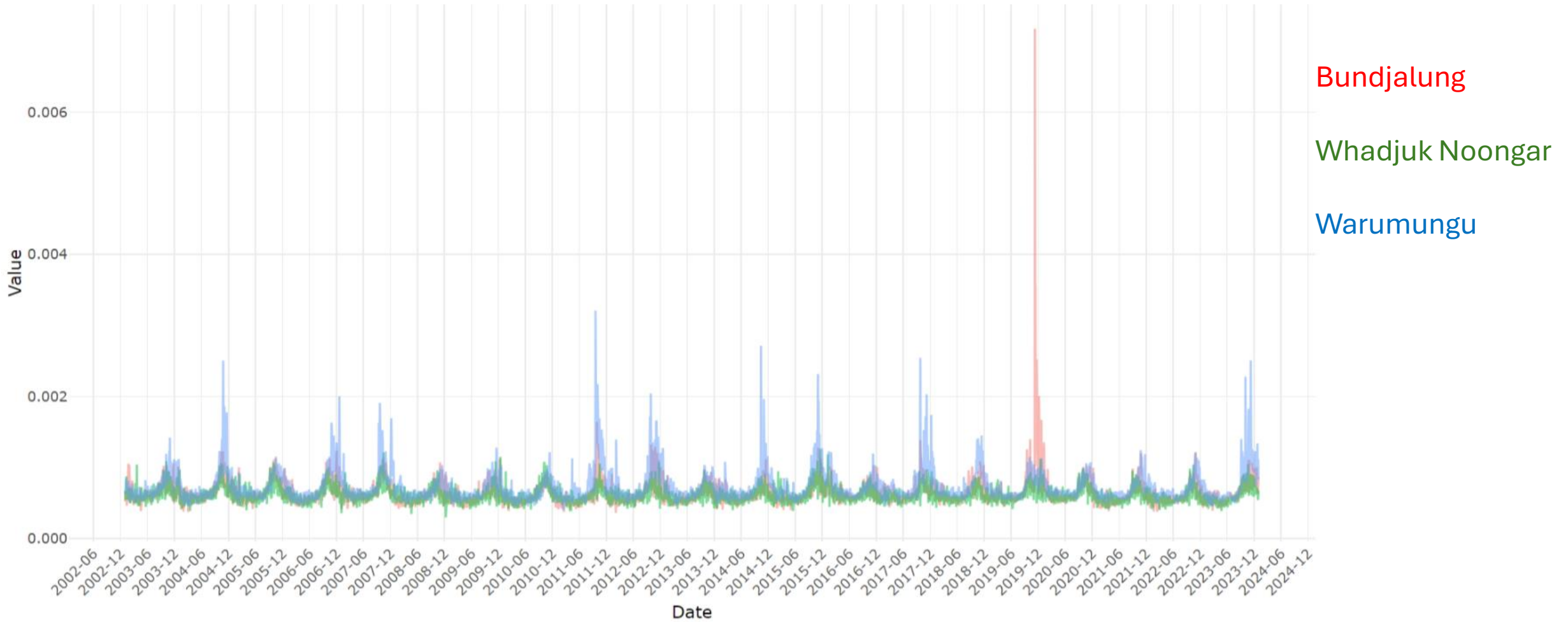
Whadjuk Noongar Country – Air quality



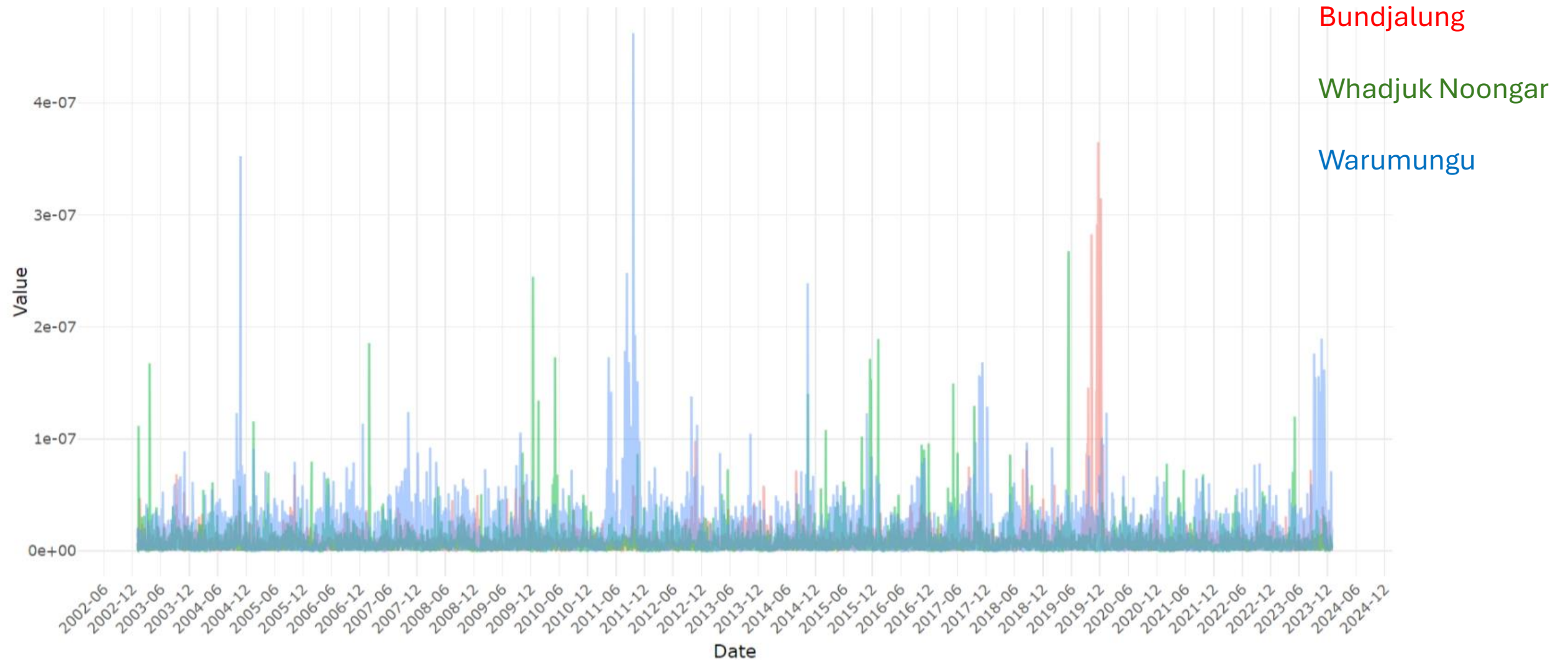
Warumungu Country – Air quality



All three sites – Comparison of air quality (CO)



All three sites – Comparison of air quality (PM2.5)



Combining data – Vulnerability Index



Home About Team Collaborators Resources Metadata FAQ Contact us Log out

Heat Risk Assessment SA3 level [Go to SA2 Level](#)

Filter By

Year

2020

Filter

Download Data

Heat Factor Cold Factor

Please click ⓘ on the columns for more functionality

Region	Spatial %	Historical Daily %	Heat Vulnerability Index
Queanbeyan	45.67	49.7	78.2
Snowy Mountains	65.07	64.58	92.5
South Coast	81.79	78.27	30.9
Goulburn - Murrumbidgee	33.13	42.85	88.2
Young - Yass	38.21	42.56	77.3
Gosford	59.4	53.57	49.4
Wyong	65.07	50.6	47.6
Bathurst	43.28	44.35	80.1
Lachlan Valley	29.85	21.43	81.8
Lithgow - Mudgee	29.85	30.65	76.1
Orange	31.34	33.04	90.3
Clarence Valley	65.07	65.77	25.3
Coffs Harbour	81.79	67.26	25.8
Bourke - Cobar - Coonamble	33.13	34.52	87.2
Broken Hill and Far West	11.64	8.04	83.3
Dubbo	31.34	29.76	89.2
Lower Hunter	48.96	52.38	65.4
Maitland	59.4	50.3	59.8
Port Stephens	33.13	35.42	51.7
Upper Hunter	33.13	31.55	55.1
Dapto - Port Kembla	59.4	60.42	48.2
Illawarra Catchment Reserve	48.96	48.51	62.2
Kiama - Shellharbour	59.4	63.1	49.11
Wollongong	59.4	52.98	50
Great Lakes	48.96	47.32	38.39

You can get the metadata information from [metadata information](#)

Heat High %

Historically ranked average temperature, with heat high (%). Otherwise referred to as heat high percent. This parameter is derived from average temperature by comparing each region to its own historical values. A region value of 0 means that region is the coldest in its history. Likewise, a region value of 1 means that region is the hottest in its history.

Cold High %

Historically ranked average temperature, with cold high (%). Otherwise referred to as cold high percent. This parameter is derived from average temperature by comparing each region to its own historical values. A region value of 0 means that region is the hottest in its history. Likewise, a region value of 1 means that region is the coldest in its history.

Heat Vulnerability Index

This parameter is derived by averaging the spatial rankings the relevant exposure, sensitivity, and adaptive capacity sub-indices.

Heat Exposure Index

Exposure sub-index for heat vulnerability index. The parameter is derived by averaging the spatial rankings of all relevant exposure parameters for a given spatial and temporal resolution. In this calculation, the included parameters are weighted based on their correlation with all-cause mortality.

Heat Sensitivity Index

Sensitivity sub-index for heat vulnerability index. The parameter is derived by averaging the spatial rankings of all relevant sensitivity parameters for a given spatial and temporal resolution. In this calculation, the included parameters are weighted based on their correlation with all-cause mortality.

Heat Adaptive Index

Adaptive capacity sub-index for heat vulnerability index. The parameter is derived by averaging the spatial rankings of all relevant adaptive parameters for a given spatial and temporal resolution. In this calculation, the included parameters are weighted based on their correlation with all-cause mortality.

Cold Vulnerability Index

This parameter is derived by averaging the spatial rankings the relevant exposure, sensitivity, and adaptive capacity sub-indices.

Cold Exposure Index

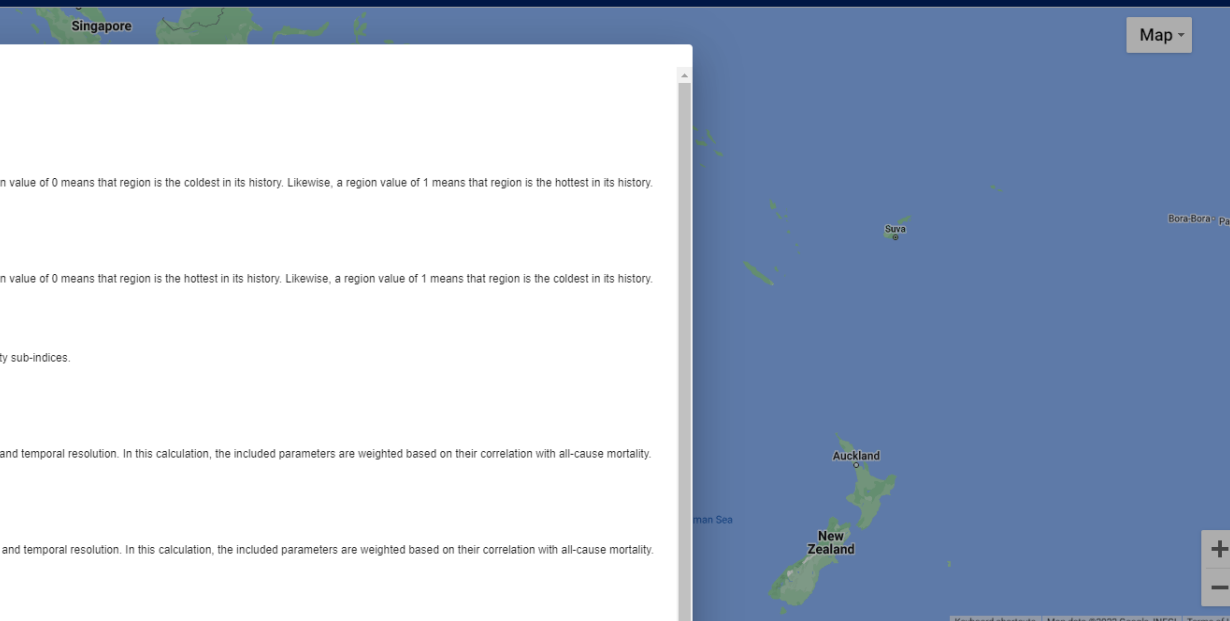
Exposure sub-index for cold vulnerability index. The parameter is derived by averaging the spatial rankings of all relevant exposure parameters for a given spatial and temporal resolution. In this calculation, the included parameters are weighted based on their correlation with all-cause mortality.

Cold Sensitivity Index

Sensitivity sub-index for cold vulnerability index. The parameter is derived by averaging the spatial rankings of all relevant sensitivity parameters for a given spatial and temporal resolution. In this calculation, the included parameters are weighted based on their correlation with all-cause mortality.

OK

Map



Keyboard shortcuts | Map data ©2022 Google, INEGI | Terms of Use

Whadjuk Noongar - Heat Vulnerability Index



Heat Risk Assessment SA3 level [Go to SA2 Level](#)

Filter By

Year

2015

Filter

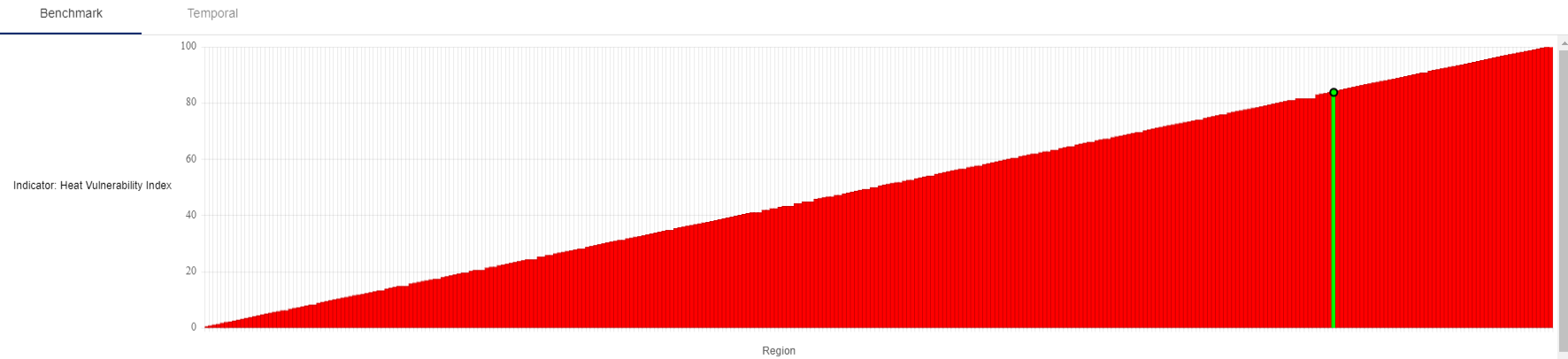
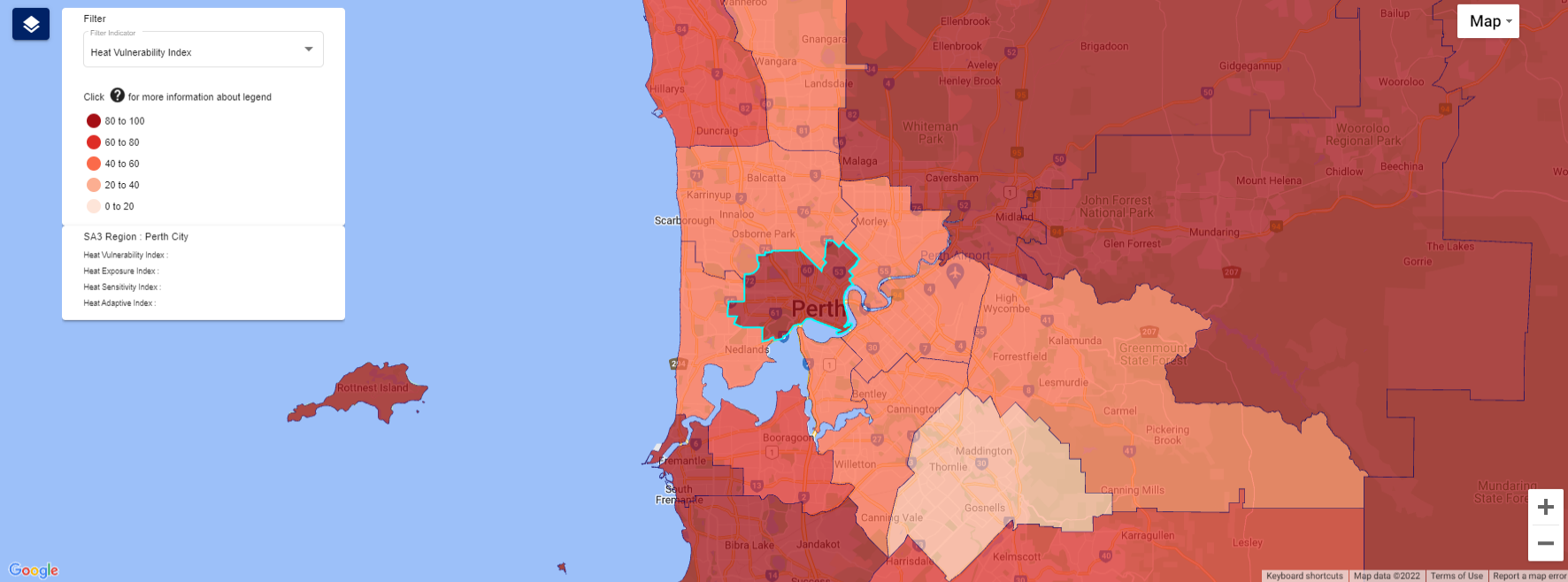
Clear Selection

Download Data

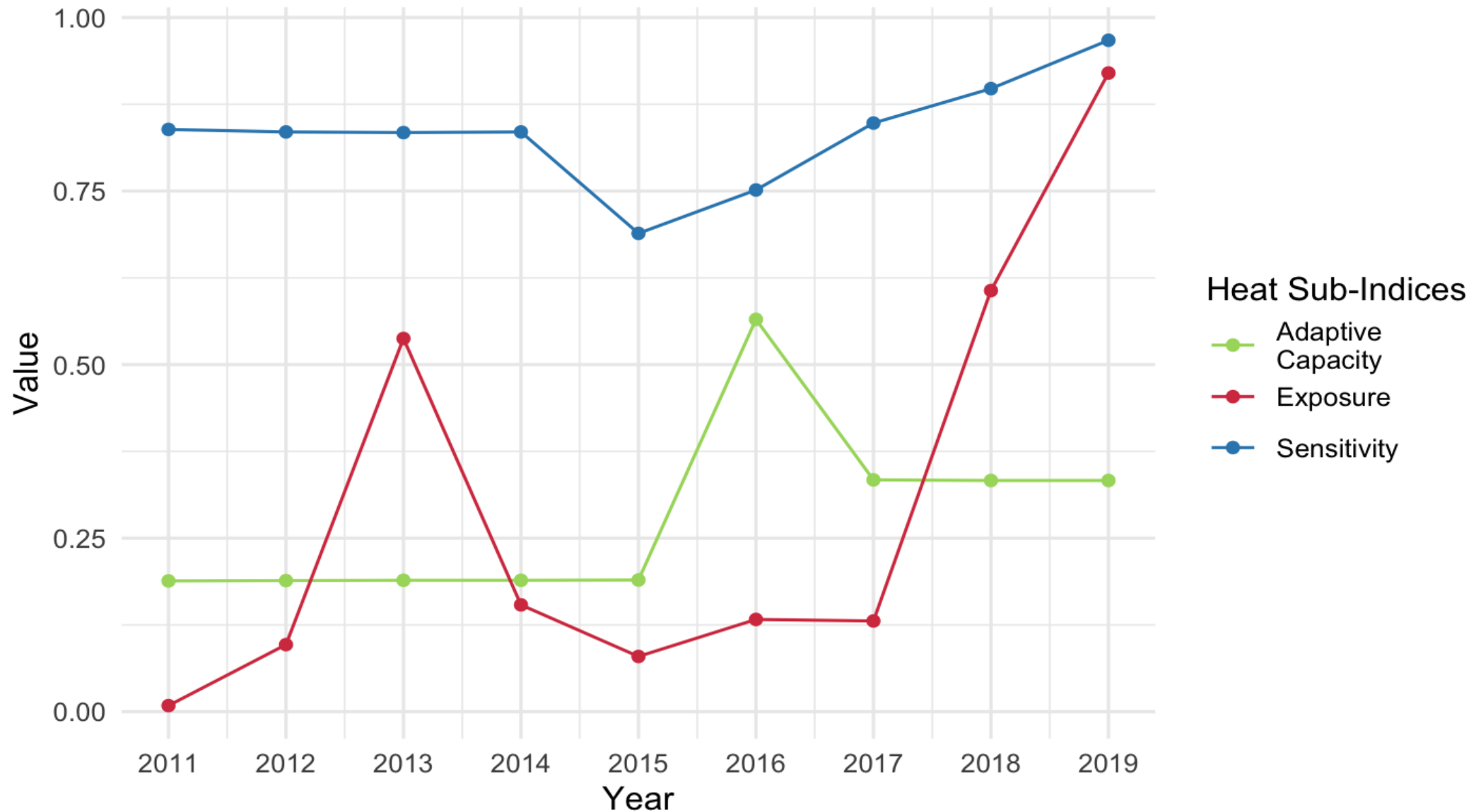
Heat Factor Cold Factor

Please click ⓘ on the columns for more functionality

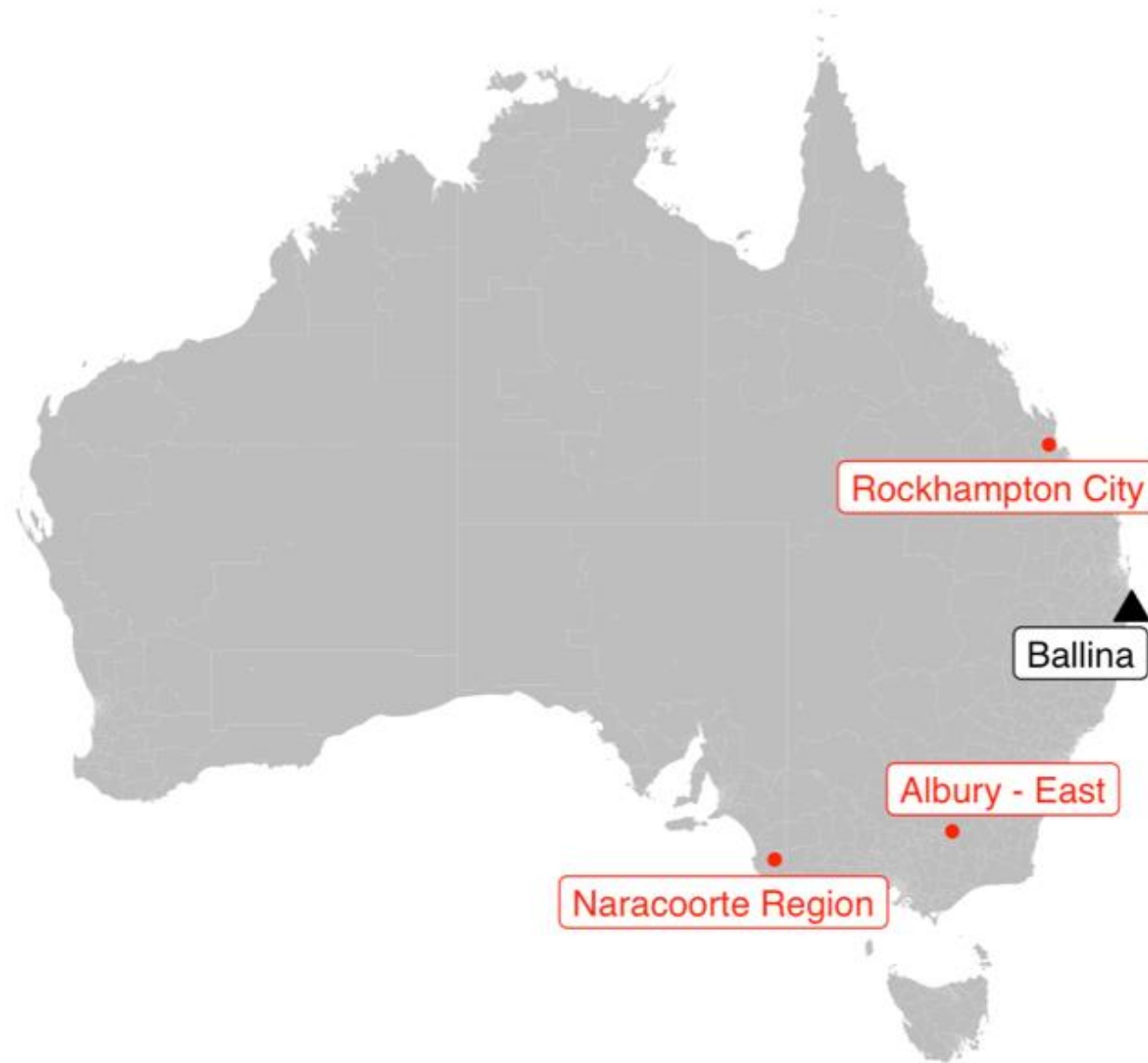
Region	Spatial %	Historical Daily %	Heat Factor %
Perth City	93.13	97.92	64.88
Bayswater - Bassendean	95.82	98.21	61.61
Mundaring	95.82	94.94	66.96
Swan	95.82	97.62	61.01
Joondalup	93.13	99.7	49.7
Stirling	93.13	99.11	58.63
Wanneroo	93.13	99.4	50.6
Armadale	95.82	92.56	65.77
Belmont - Victoria Park	95.82	96.43	63.69
Canning	95.82	95.24	63.99
Gosnells	95.82	93.45	64.29
Kalamunda	95.82	94.64	66.37
Serpentine - Jarrahdale	95.82	91.96	61.31
South Perth	93.13	96.73	59.82
Cockburn	91.34	94.35	63.1
Fremantle	89.25	96.13	42.56
Kwinana	91.34	91.67	57.74
Melville	91.34	95.83	60.12
Rockingham	91.34	93.15	55.65
Albany	99.1	94.05	70.24
Wheat Belt - North	99.1	91.07	58.93
Wheat Belt - South	99.1	91.37	61.9
Kimberley	80.3	88.1	11.31
East Pilbara	89.25	90.77	41.37
West Pilbara	86.87	86.01	62.2



Warumungu Country – Heat Vulnerability Index



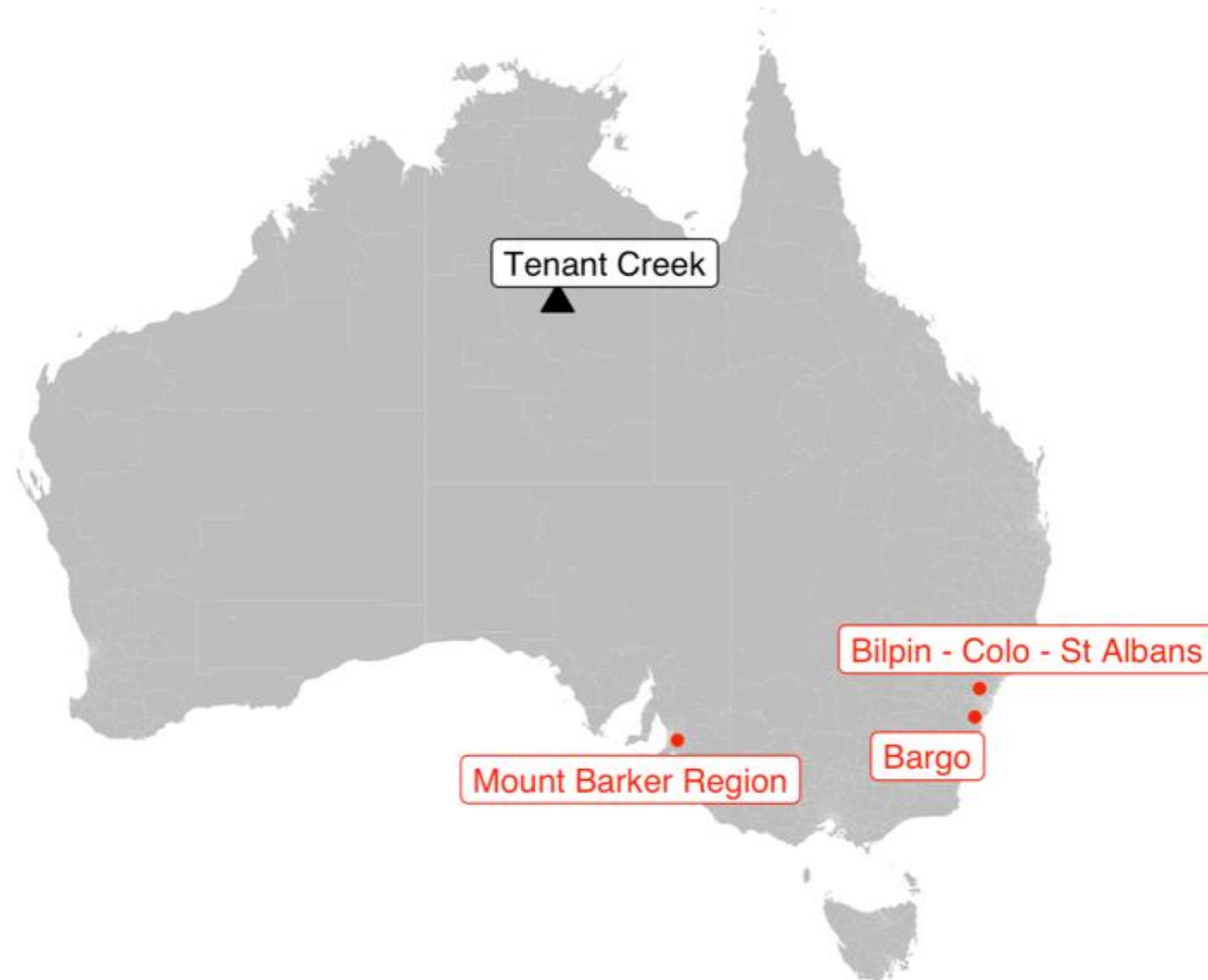
Bundjalung Country – “which areas are like me?”



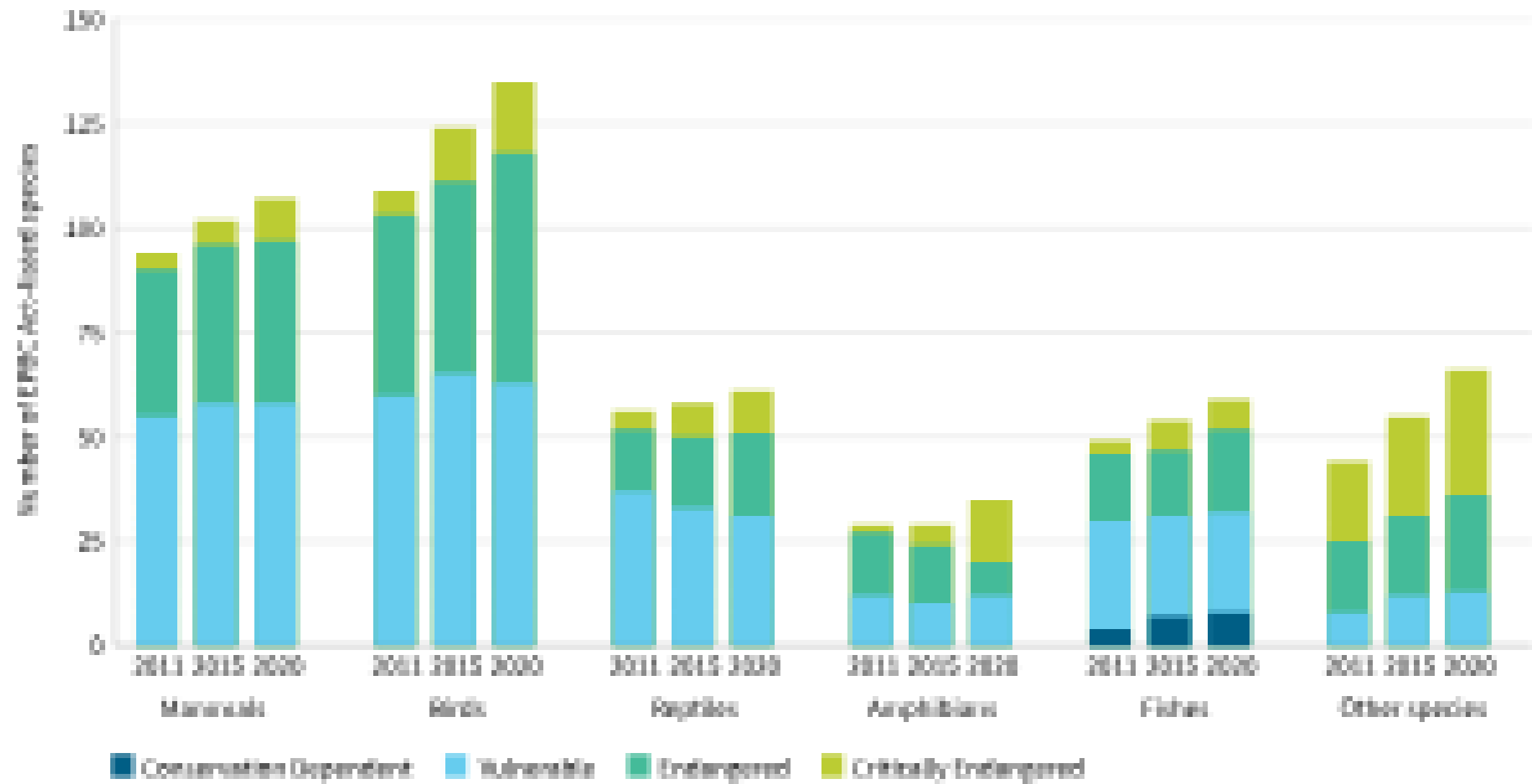
Whadjuk Noongar – “which areas are like me?”



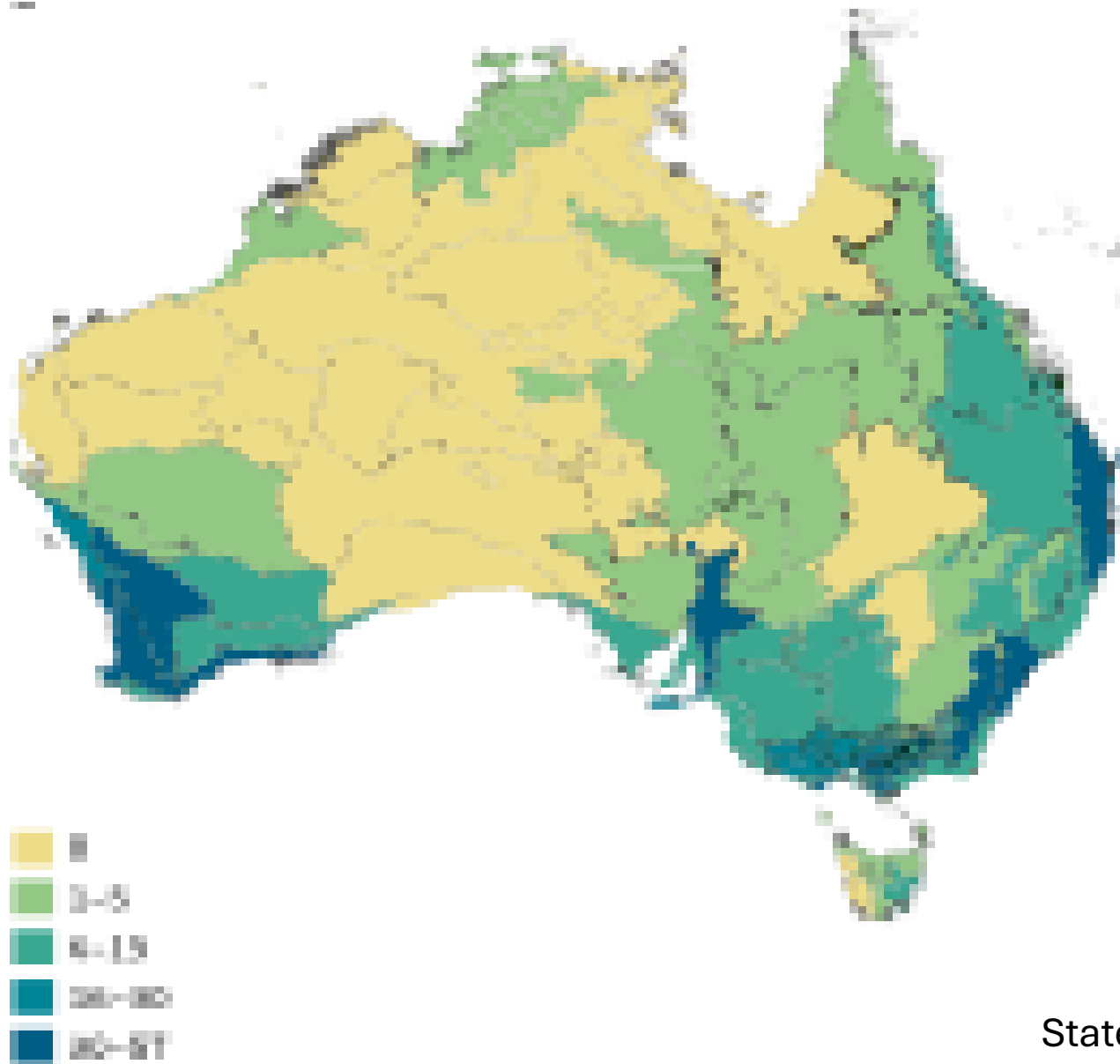
Warumungu Country – “which areas are like me?”



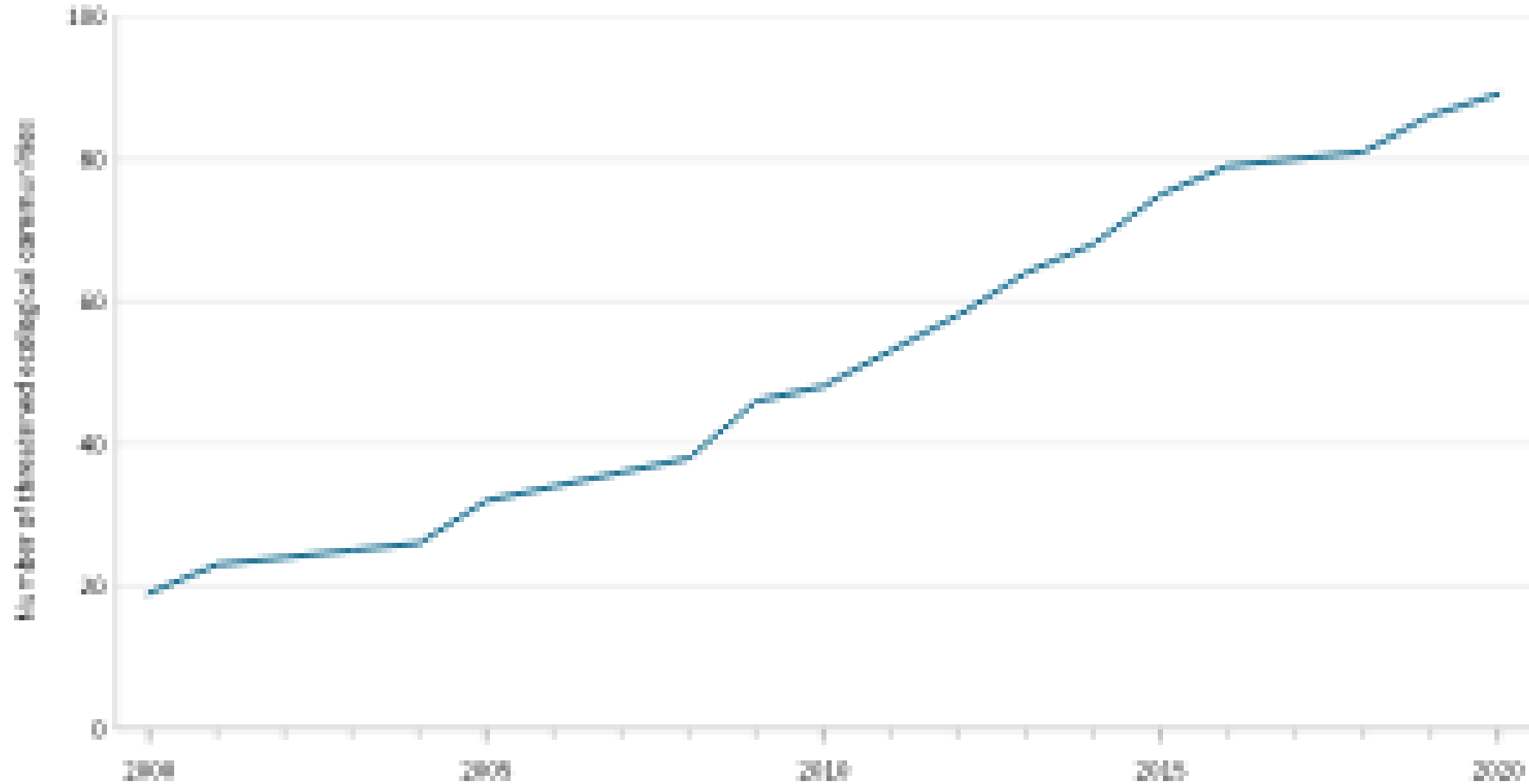
Biodiversity trends (national)



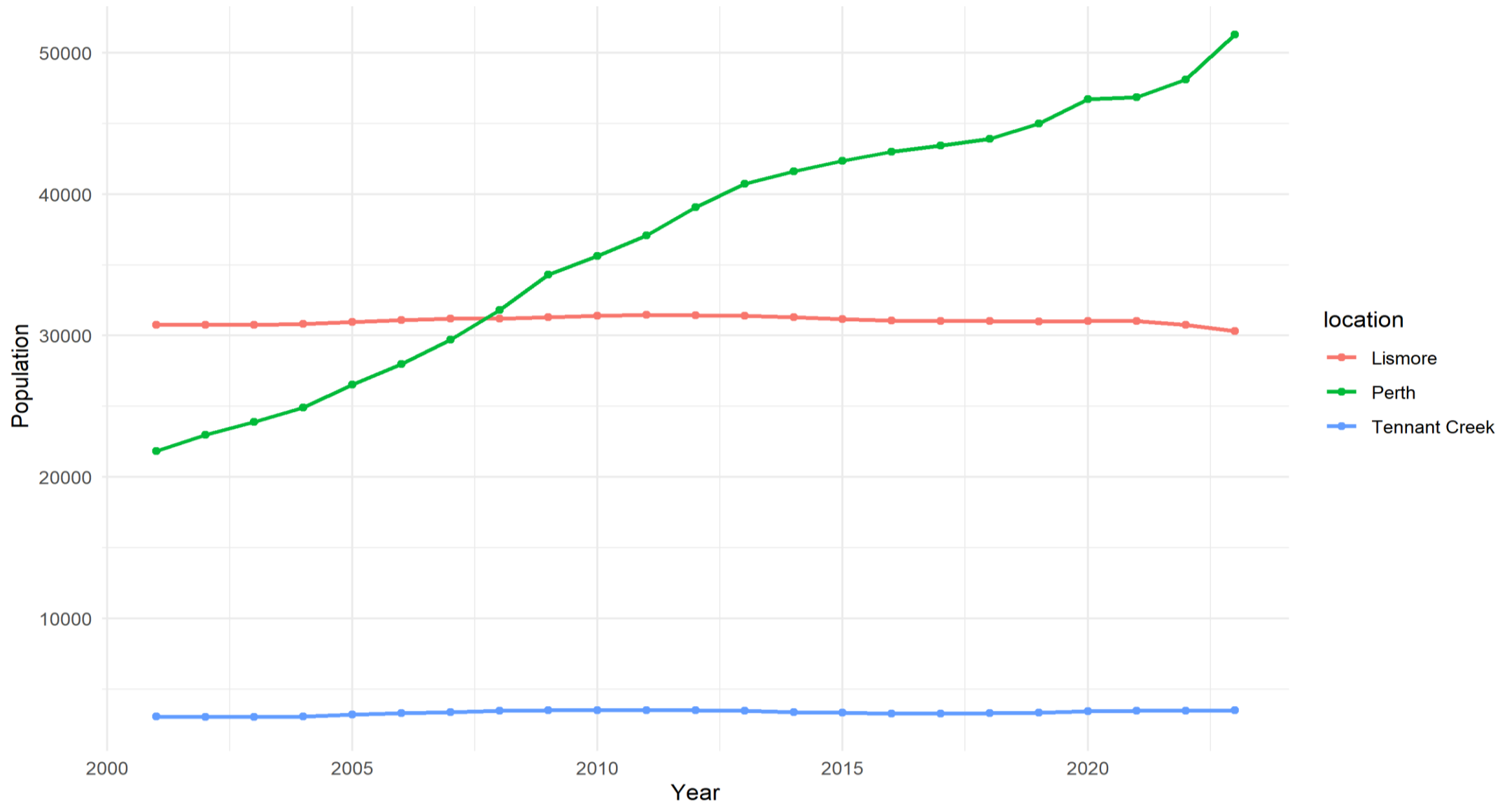
Number of declining species



Trend in total number of threatened species (national)



Other data – e.g., ABS: population trends



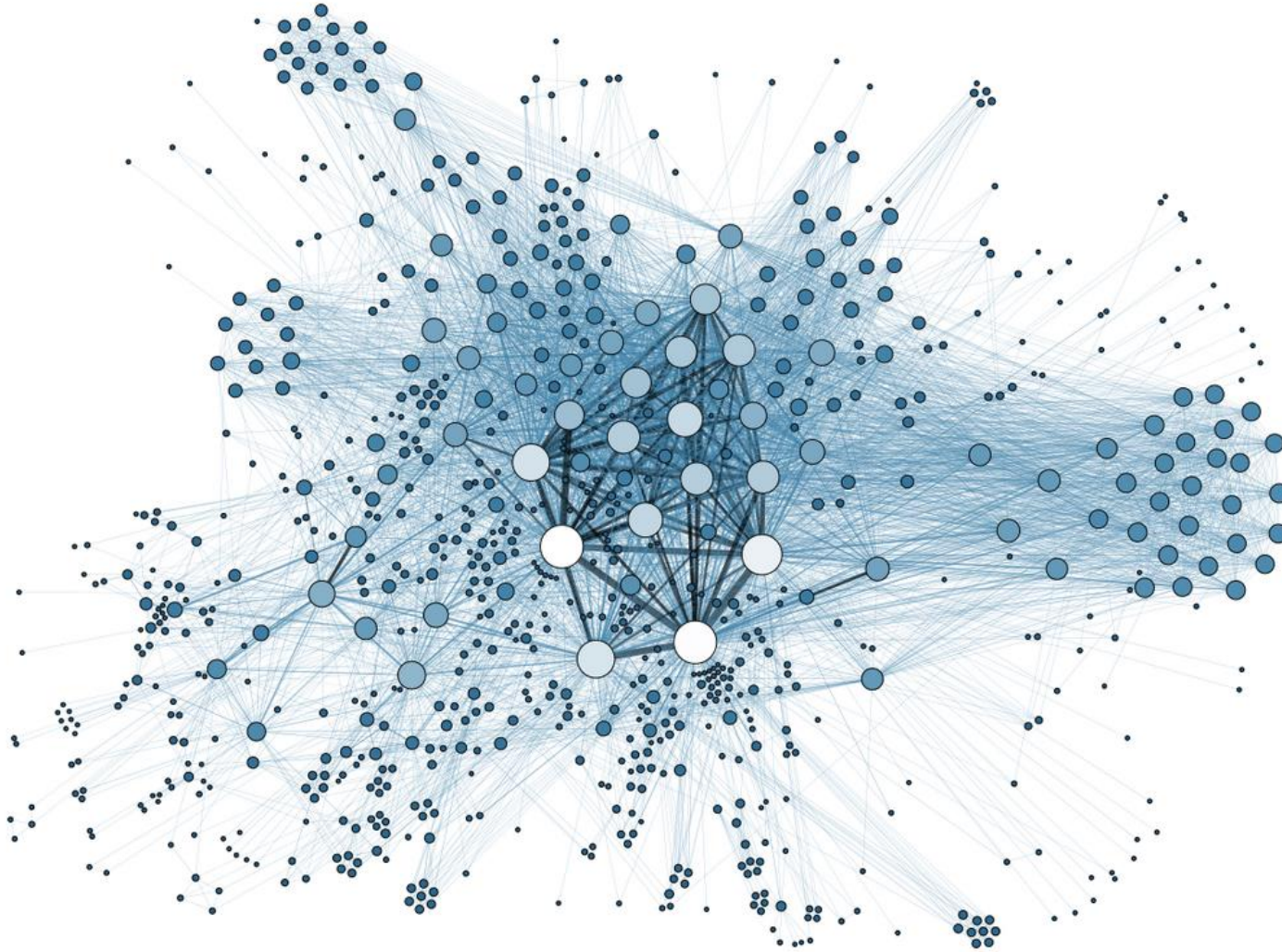
Other Data: virtual reality (VR)



Other Data: citizen science



Other Data: networks



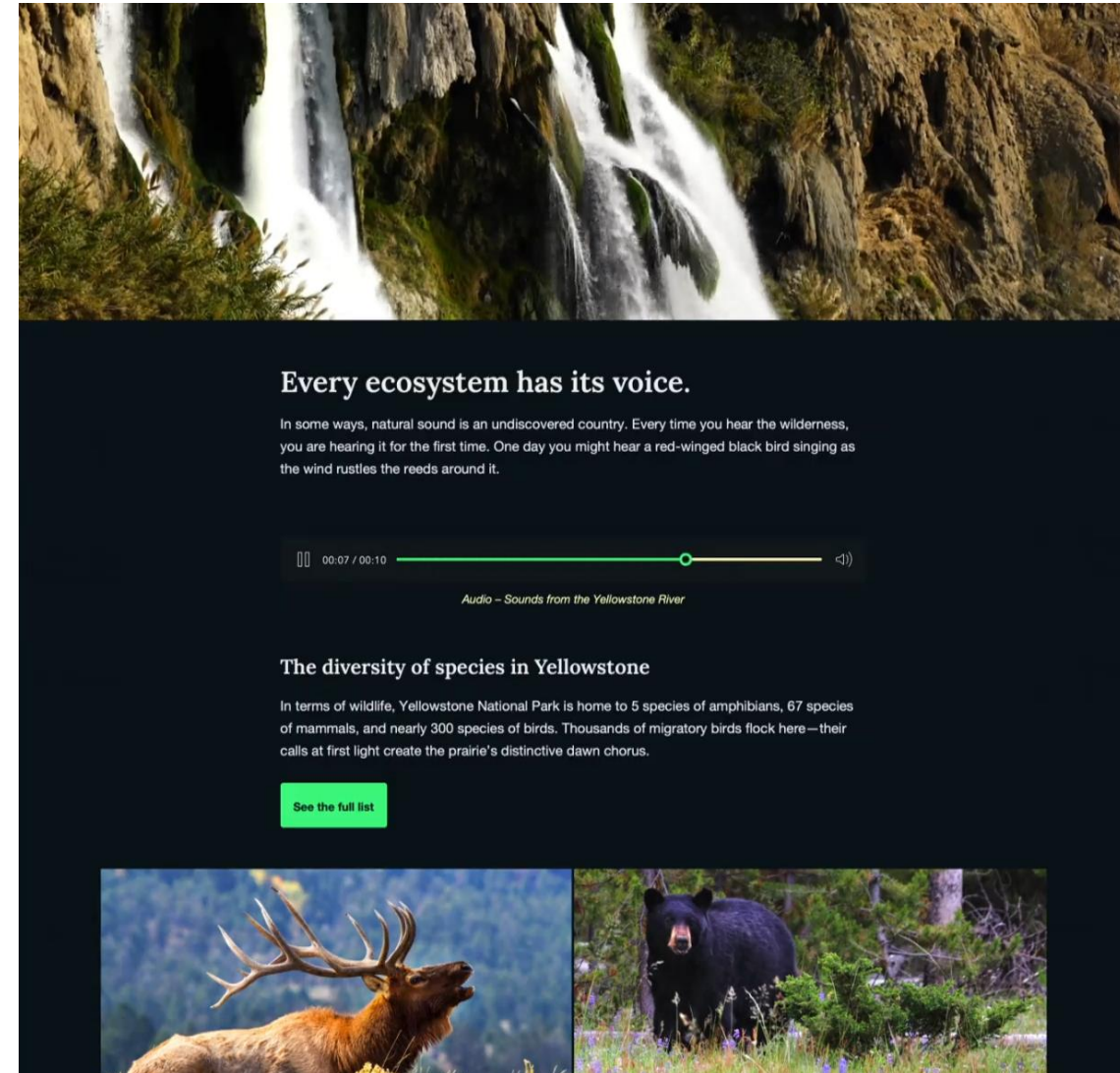
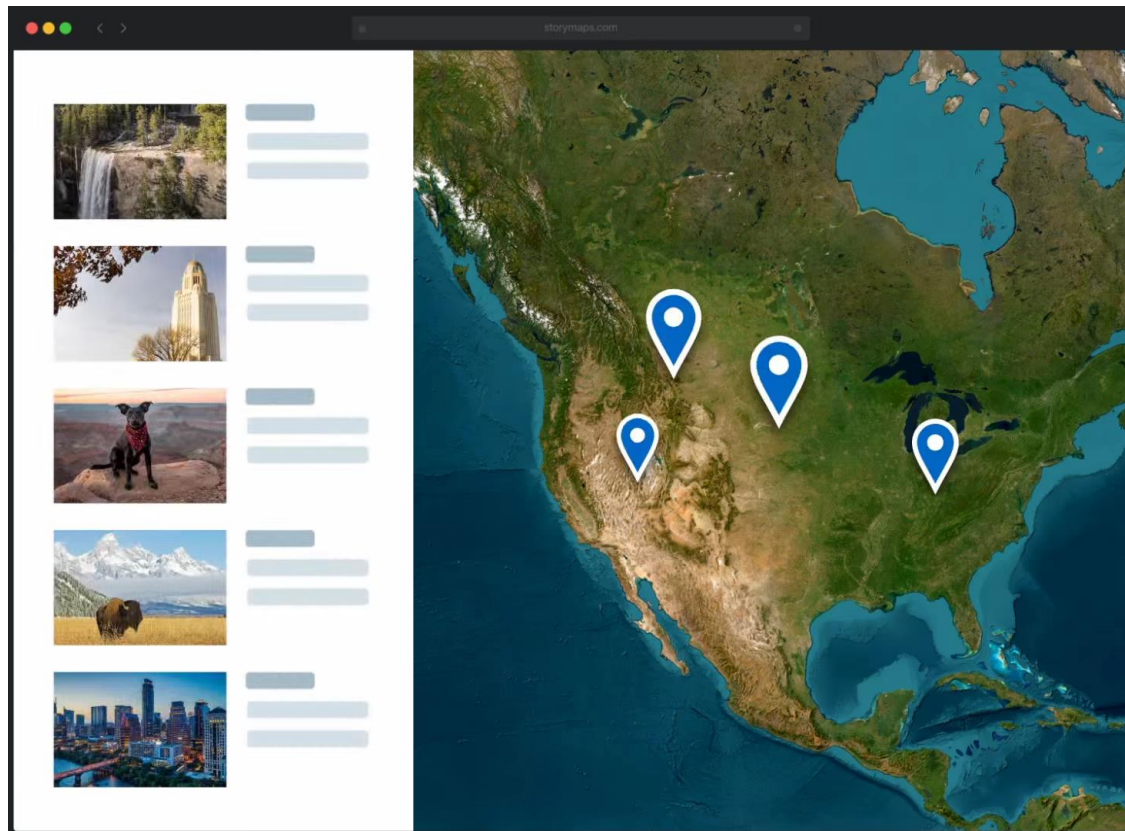
Healing Country

Combining
the stories



Example: Esri story maps

<https://storymaps.com/>



Many ways

<https://shorthand.com/the-craft/how-to-tell-stories-with-maps/index.html>

<https://flourish.studio/visualisations/scrollytelling/>

