

Total vegetation cover soil protection

Region:LGA Whitsunday_(R) QLD

Date: July 2026

This report describes vegetation protecting the soil surface from erosion during a chosen month compared to previous years. This report has been generated using MODIS fractional vegetation cover information available in Rangelands and Pasture Productivity (RAPP) map tool <https://map.geo-rapp.org/#australia>. The report is based on 500 metre pixel data on monthly time steps.

Land use forest cover:

Results can be shown for the whole region (polygon), and separated by land use and forest cover classes which are likely to show different cover patterns and targets. Land use is divided into four broad classes: Conservation and natural environments, Agriculture, production native forests and plantation forests (no report), and other (no report). Agriculture is divided into grazing, crops and horticulture which are sub-divided into non-irrigated and irrigated. If forest is present land use is further divided into: non-forest, woodland forest and non-woodland forest. The area of each land use and forest class are shown as a map and chart. The report content is repeated for each land use and forest cover class that covers at least 1% of the area of the chosen region.

Total vegetation Cover:

The total vegetation cover indicates where soil is likely to be protected from wind and or water hillslope erosion. Total vegetation cover for this month is shown on a map and chart classified into 4 classes.

- 71-100% High cover - protected from wind and usually water erosion (high rainfall, steep slopes, and erodible soils may need greater than 80, 90, 95 and up to 100% cover)
- 51-70% Moderate cover - protected from wind erosion
- 31-50% Low cover - not protected
- 0-30% Very Low cover - not protected

Erosion protection: Wind erosion 50% total vegetation cover

The vegetation cover threshold required to prevent soil erosion is usually 50% to reduce wind erosion, 70% or 80% to reduce water (hillslope) erosion depending on the steepness and rainfall. Areas protected from erosion for the month:

- Map: water erosion protection (>70% cover) percentage area and hectares.
- Map: wind erosion protection (>50% cover) percentage area and hectares.

Comparison with previous years:

- Map: anomaly comparing this month to the average cover from the same month in previous years.
- Map: deciles rank of month against the same month in previous years.

Anomalies and deciles until September 2019 are calculated comparing to the same months 2001 to 2019. Extra monthly data will be used to calculate anomalies and deciles post September 2019 as they become available.

Time series monthly from January 2001 to current:

Erosion protection

- Wind erosion protection time series: percentage of the area of the region with greater than 50% cover for each month (orange lines). Horizontal lines are 10th (cover target) and 50th percentiles.
- Water erosion protection time series: percentage of the area of the region with greater than 70% cover for each month (blue line). Horizontal lines are 10th (cover target) and 50th percentiles.

Rainfall

- Millimetres rainfall each month (black line).

Each time series is also stacked by year. The black line shows the current year of data.

Water erosion protection for higher rainfall and steeper slopes:

Water erosion protection on higher slopes. As slope increases, more cover is required to control water erosion. The thresholds reported are:

- the percentage area with pixels greater than 80% total cover.
- the percentage area with pixels greater than 90% total cover.
- the percentage area with pixels greater than 95% total cover.

Acknowledgment of data:

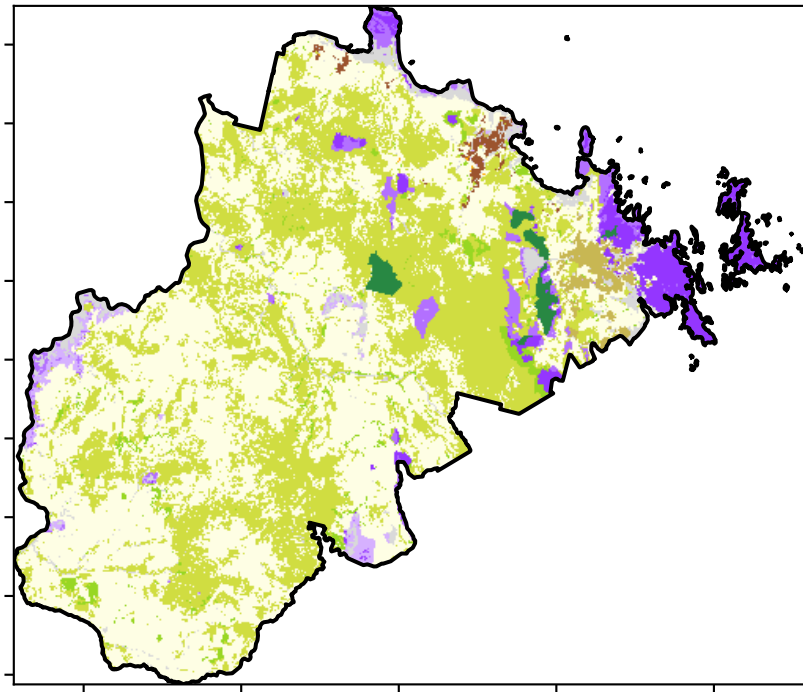
1. <http://www.agriculture.gov.au/abares/aclump/land-use/alum-classification>
2. <http://www.agriculture.gov.au/abares/forestsaustralia/sofr/sofr-2018>
3. <https://www.dpi.nsw.gov.au/agriculture/pastures-and-rangelands/establishment-mgmt/production-management2/groundcover>
4. MODIS Fractional cover algorithm:
<https://doi.org/10.4225/08/5848a3f19a7b3>



Vegetation Cover Jul 2026

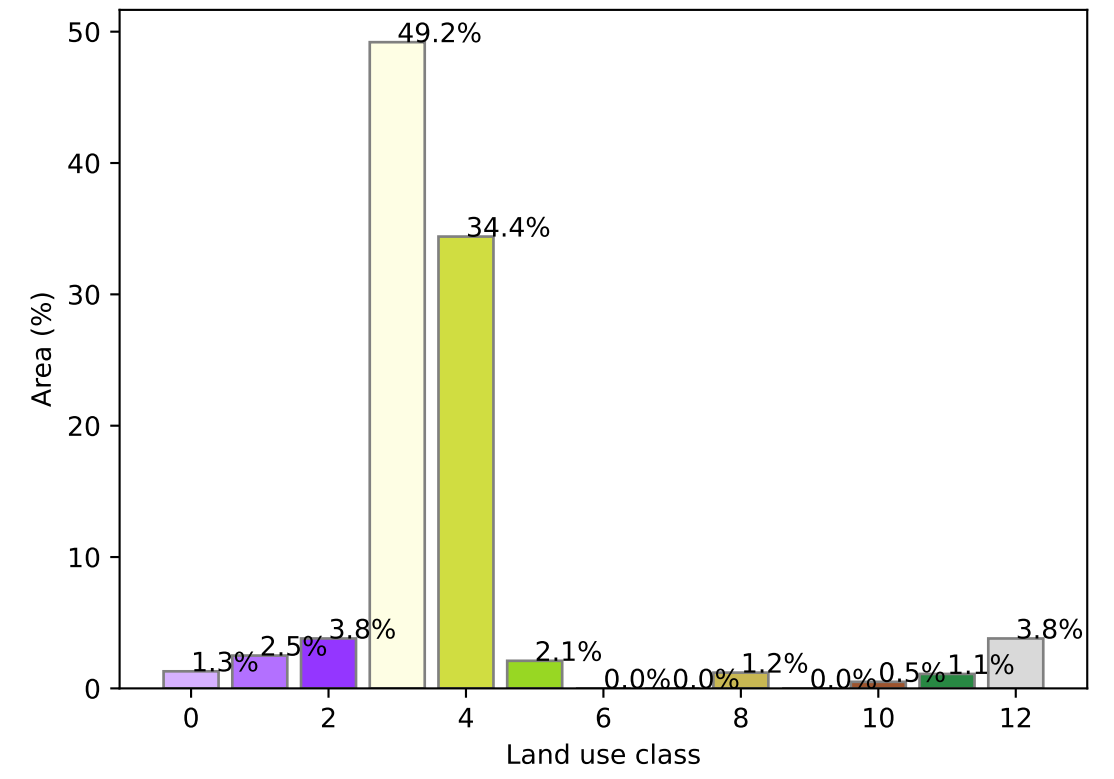
Land use and forest cover

Catchment Scale
Land Use and Forests
of Australia (2018)
Derived from
Catchment Scale Land
Use of Australia
(2018) and Forests
of Australia (2018)

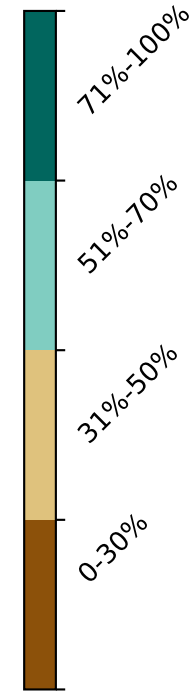
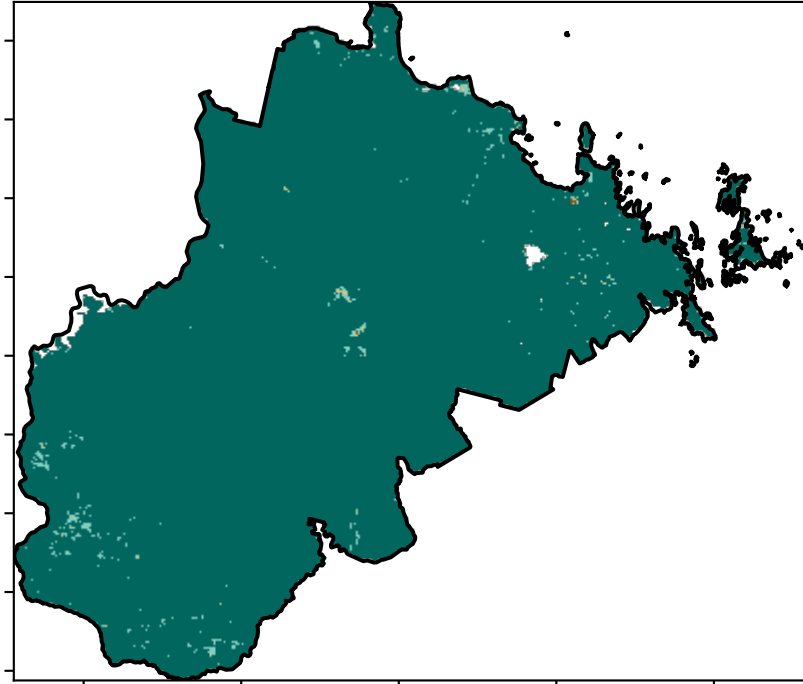


- Legend with land class forest cover and number, i.e. Forests is 12
- 1 Conservation and natural environments - Non-forest
 - 2 Conservation and natural environments - Woodland forest
 - 3 Conservation and natural environments - Non-Woodland forest
 - 4 Agriculture - Grazing - Non-forest
 - 5 Agriculture - Grazing - Woodland forest
 - 6 Agriculture - Grazing - Non-woodland forest
 - 7 Agriculture - Grazing - Irrigated
 - 8 Agriculture - Cropping - Non-irrigated
 - 9 Agriculture - Cropping - Irrigated
 - 10 Agriculture - Horticulture - Non-irrigated
 - 11 Agriculture - Horticulture - Irrigated
 - 12 Production native forests and plantation forests
 - 13 Other uses

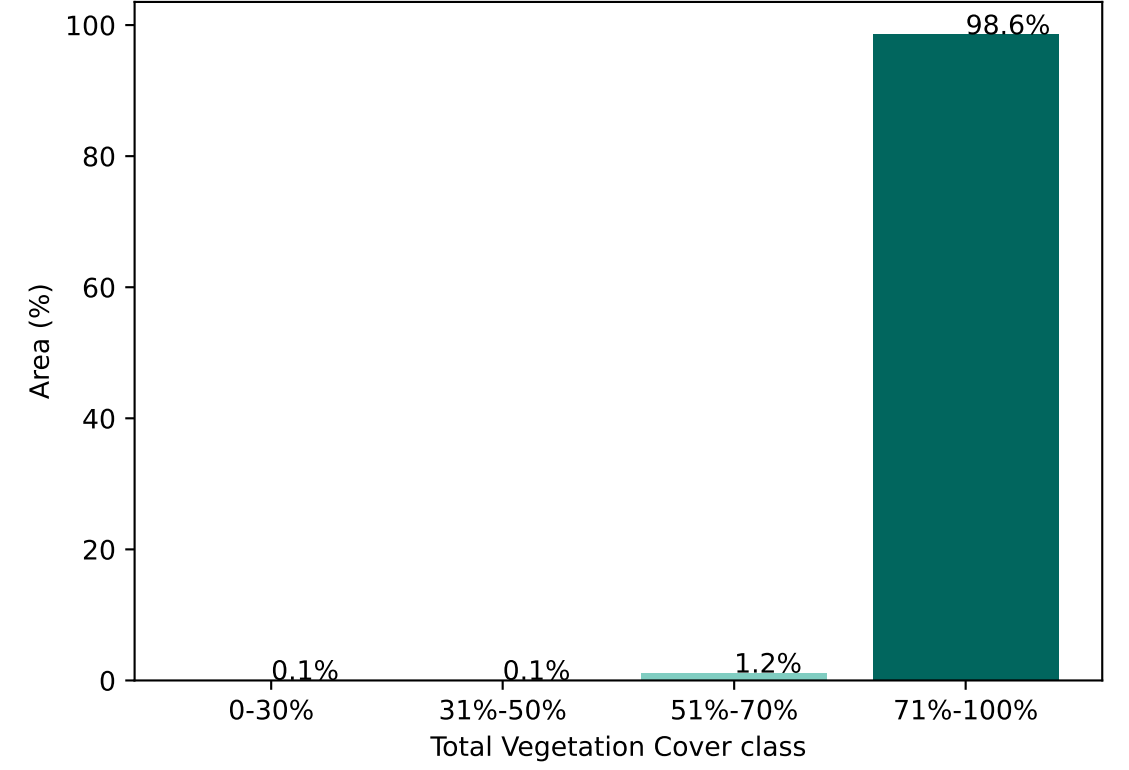
Proportion of each land class in area



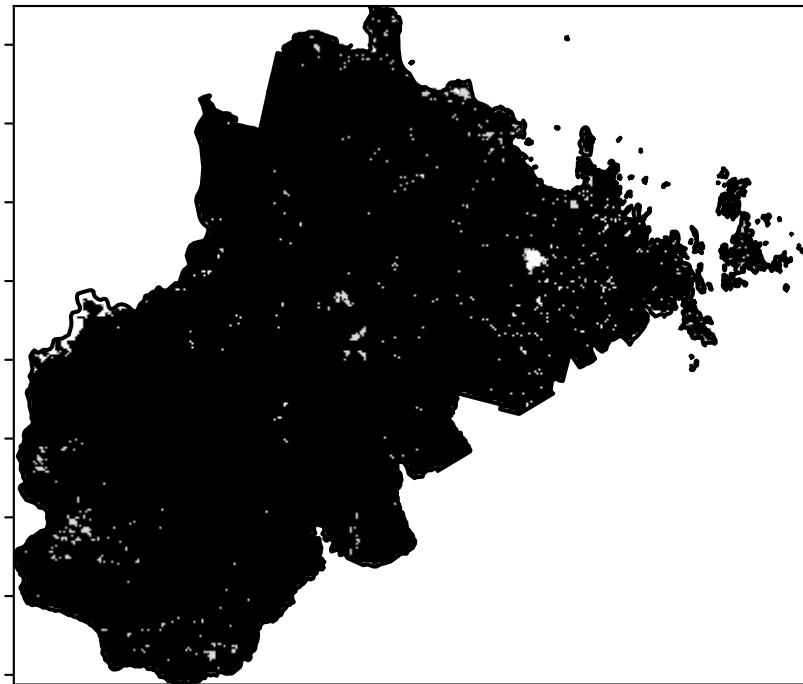
Total Vegetation Cover [%]



Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)



- Area not protected
1.4% of region
(33,009 ha)
- Area protected
98.6% of region
(2,324,791 ha)

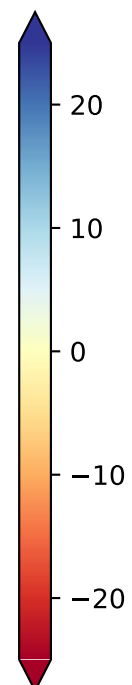
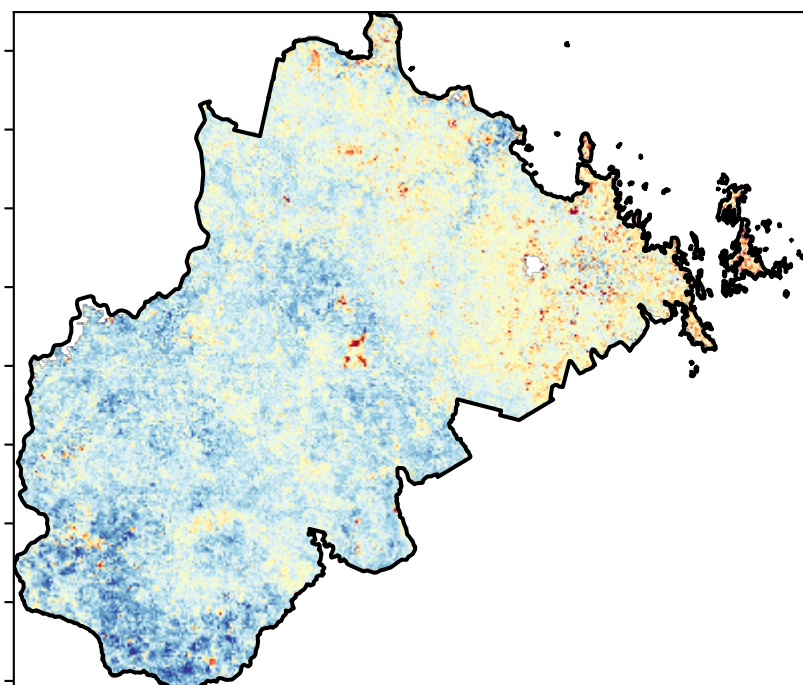
% Area protected from wind erosion (>50%)



- Area not protected
0.0% of region (0 ha)
- Area protected
100.0% of region
(2,357,800 ha)

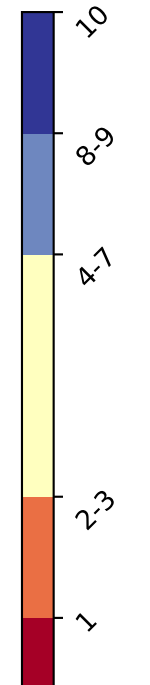
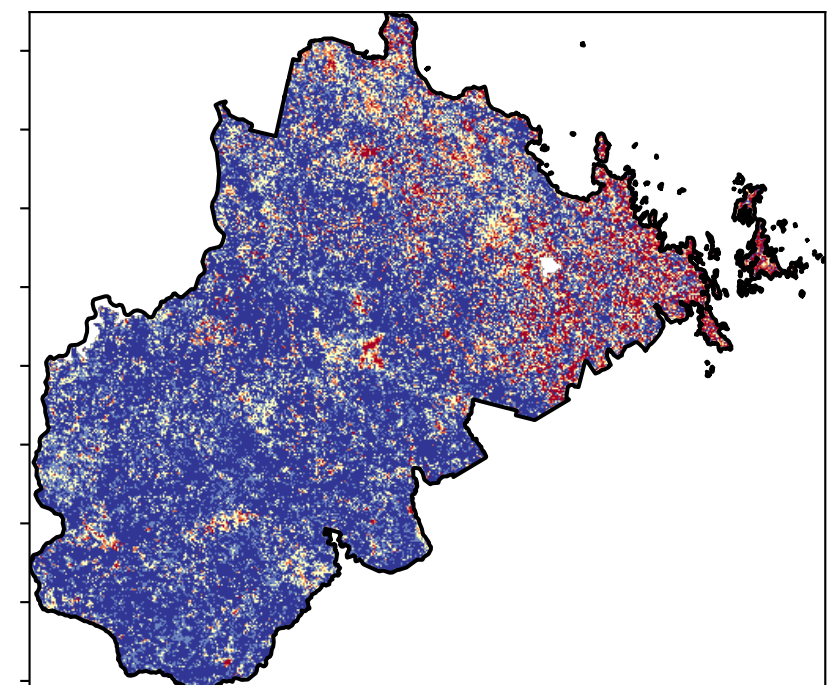
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

Total Vegetation Cover Decile [%]

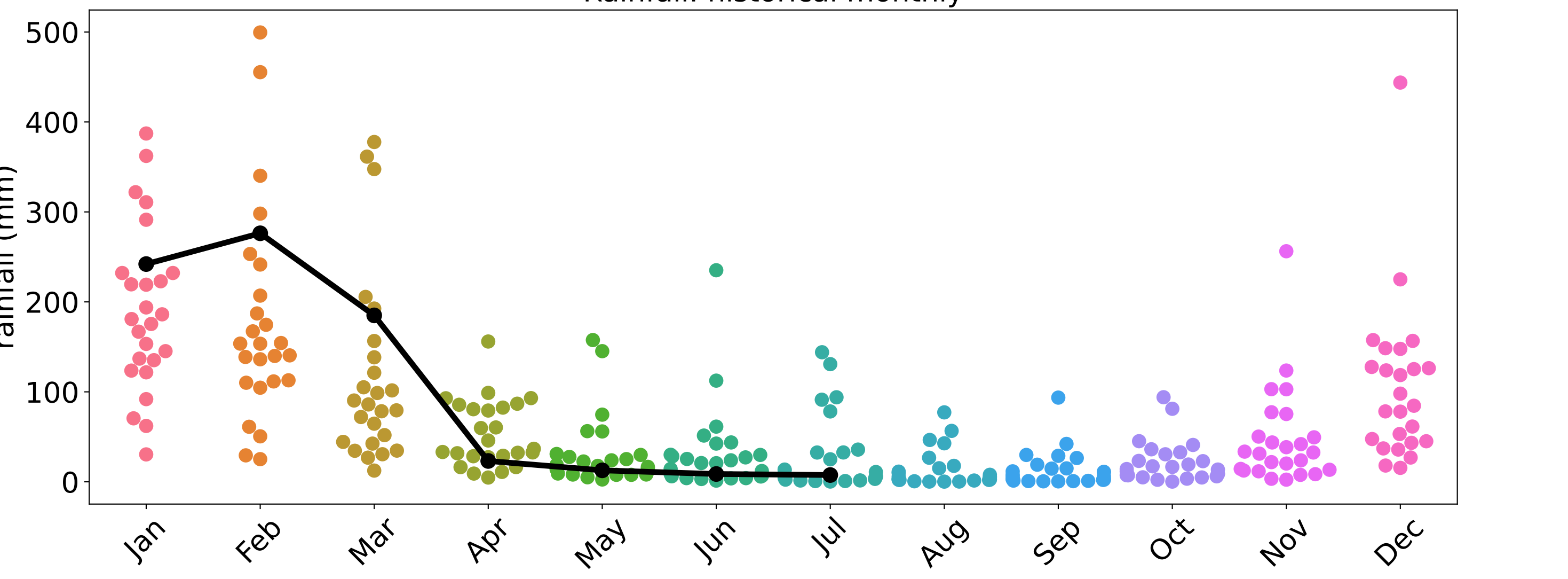
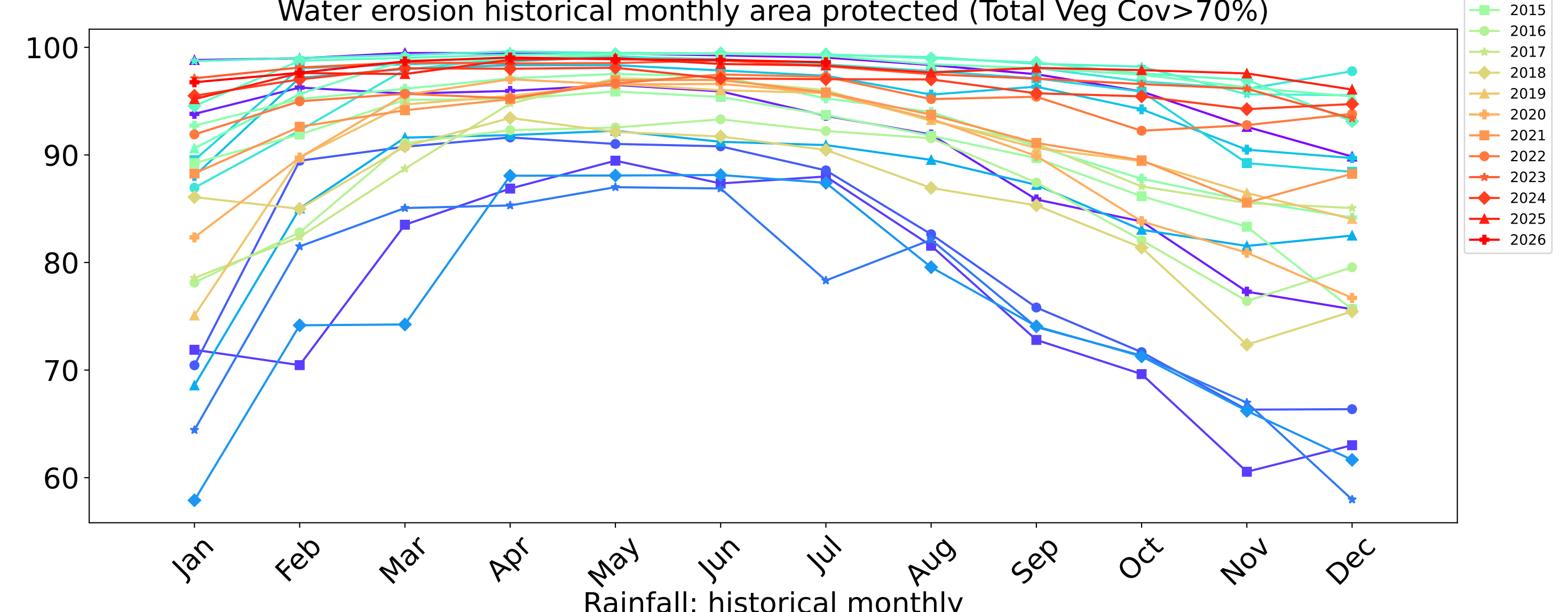
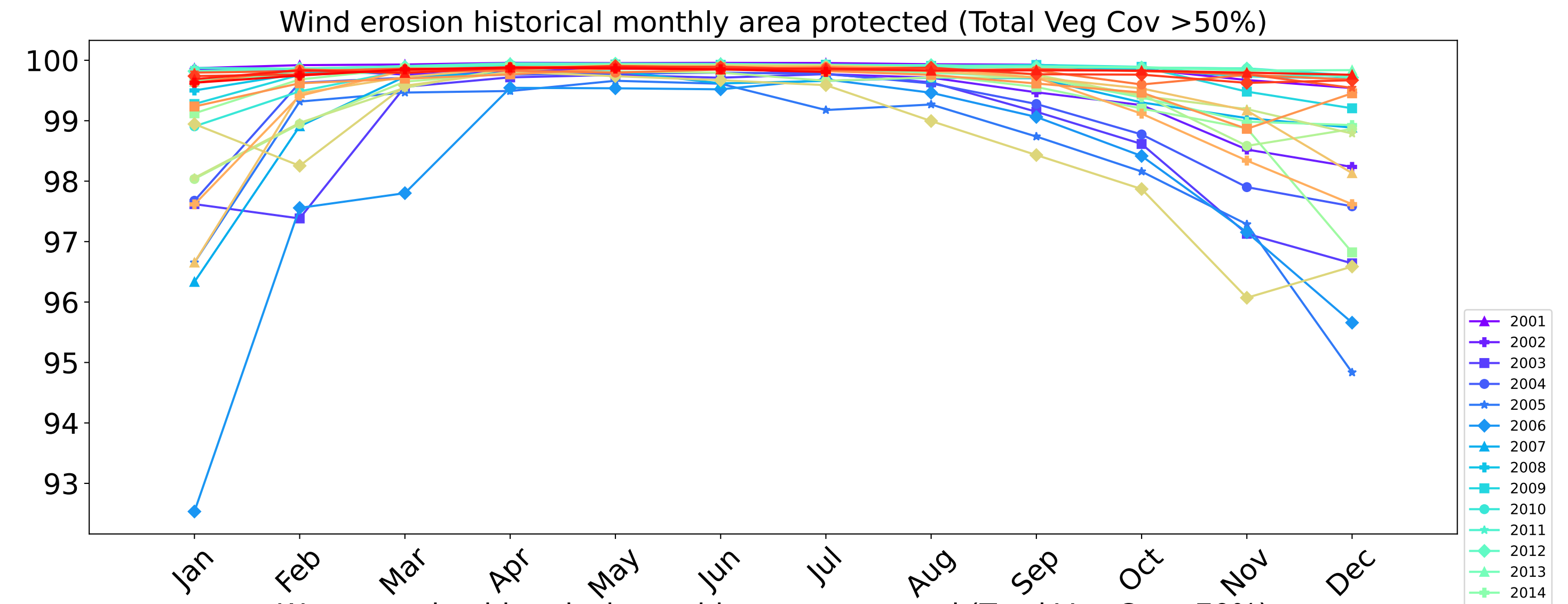
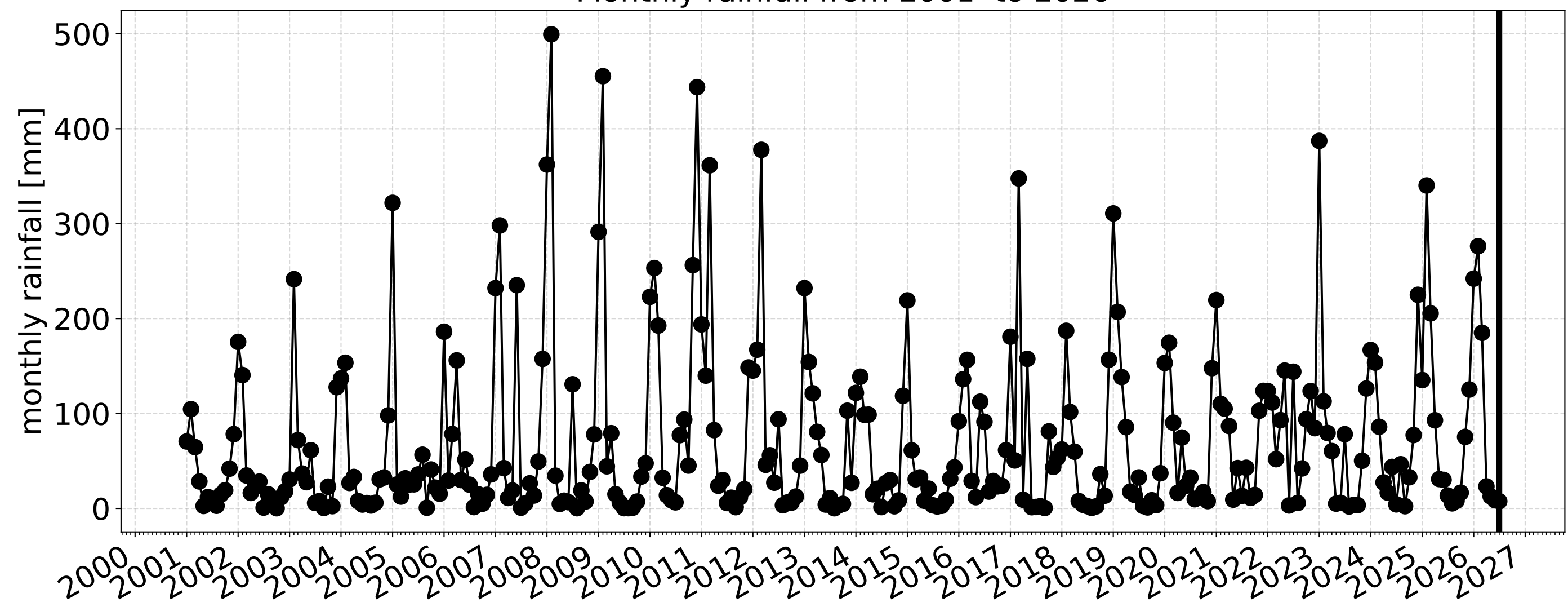
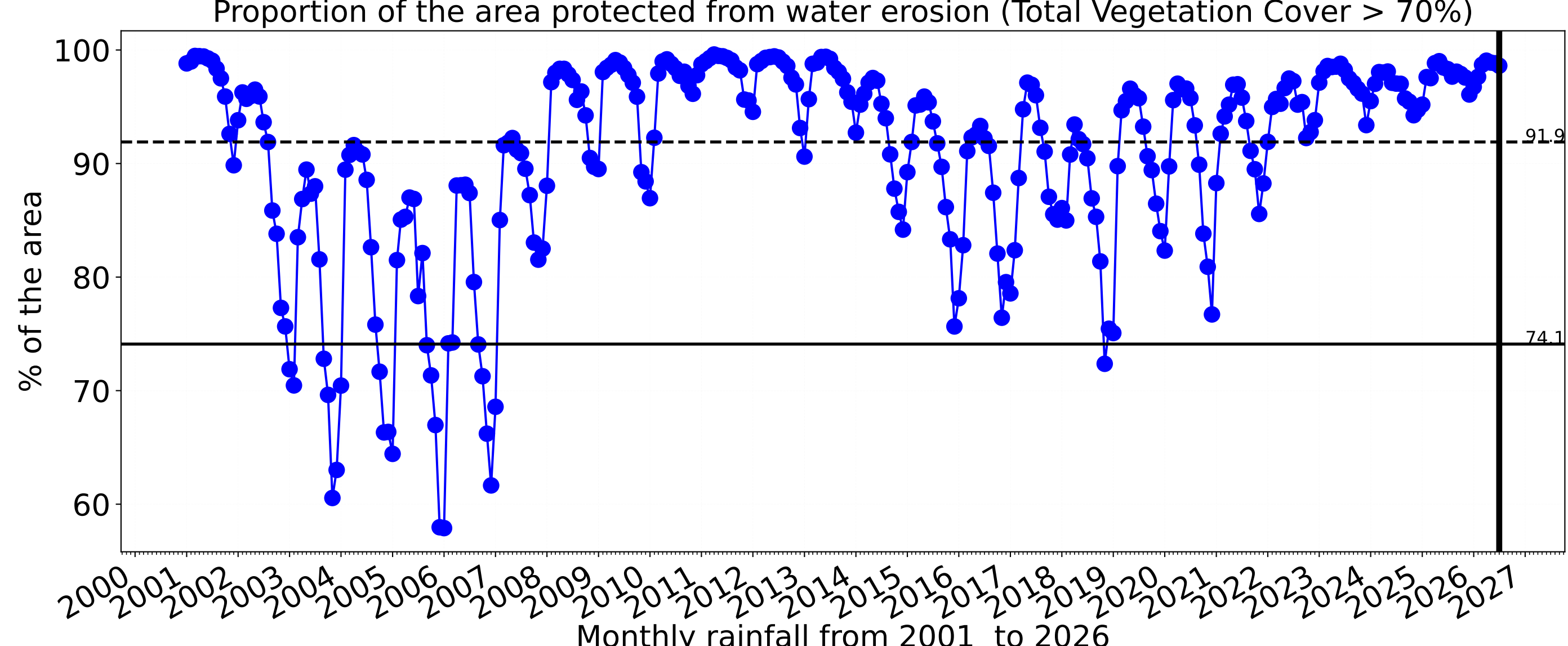
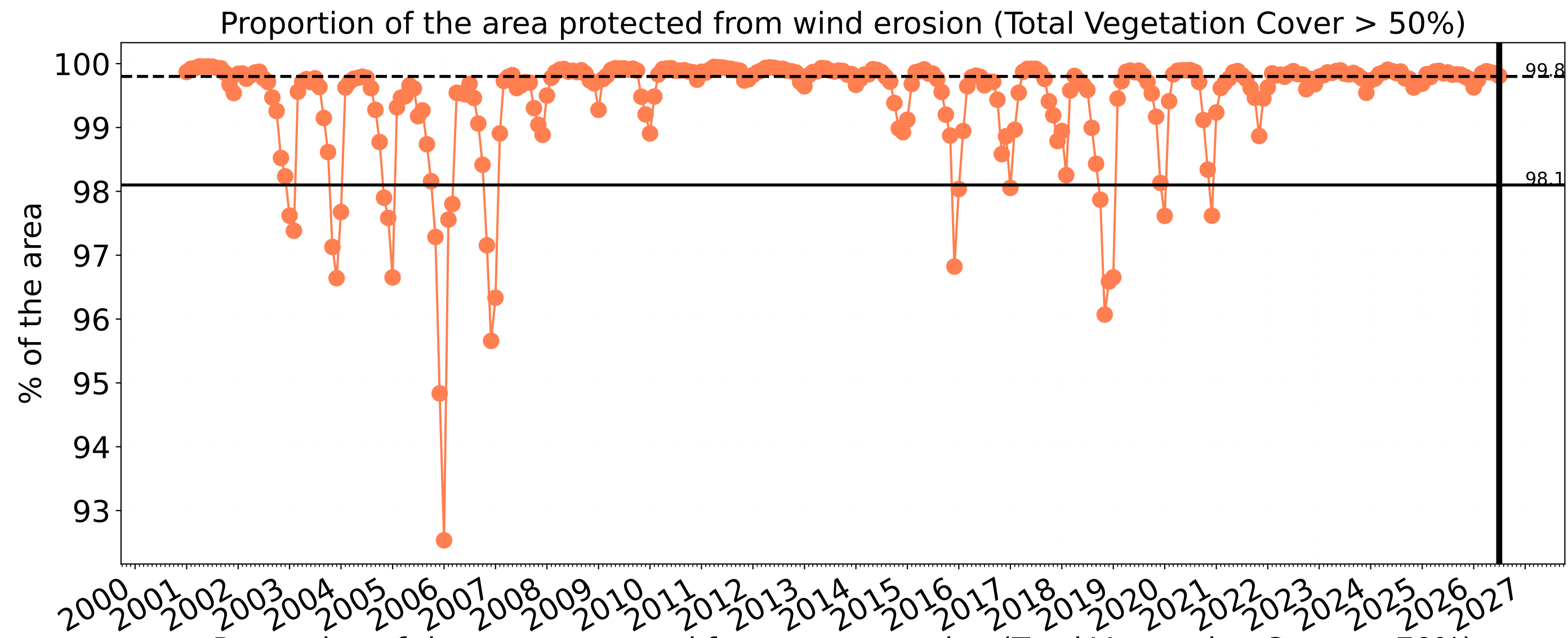


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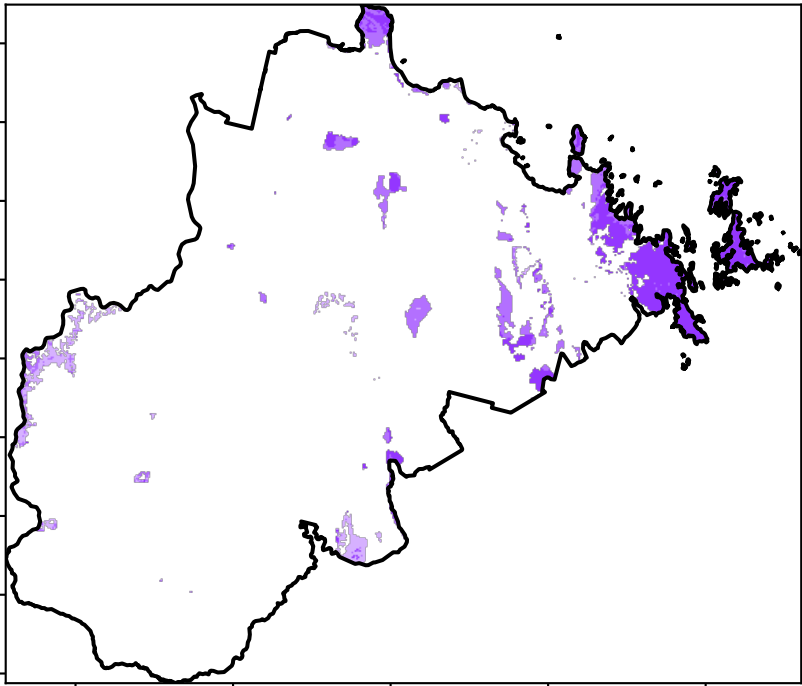




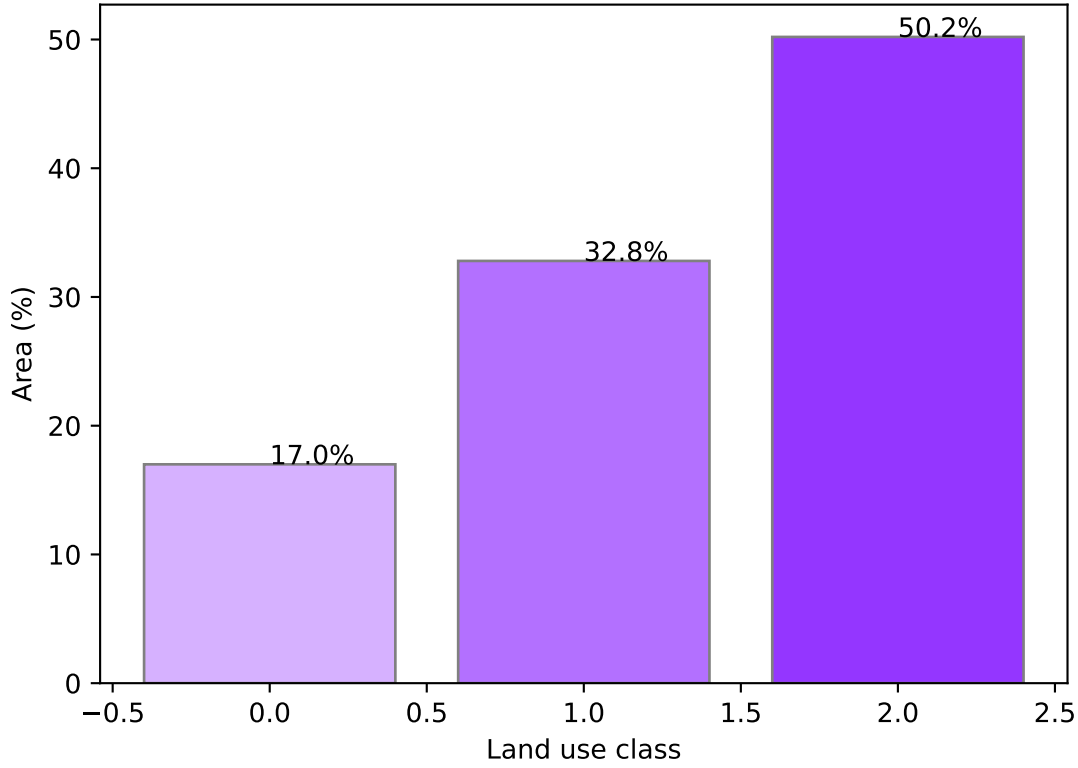
Conservation and natural environments

Land use and forest cover

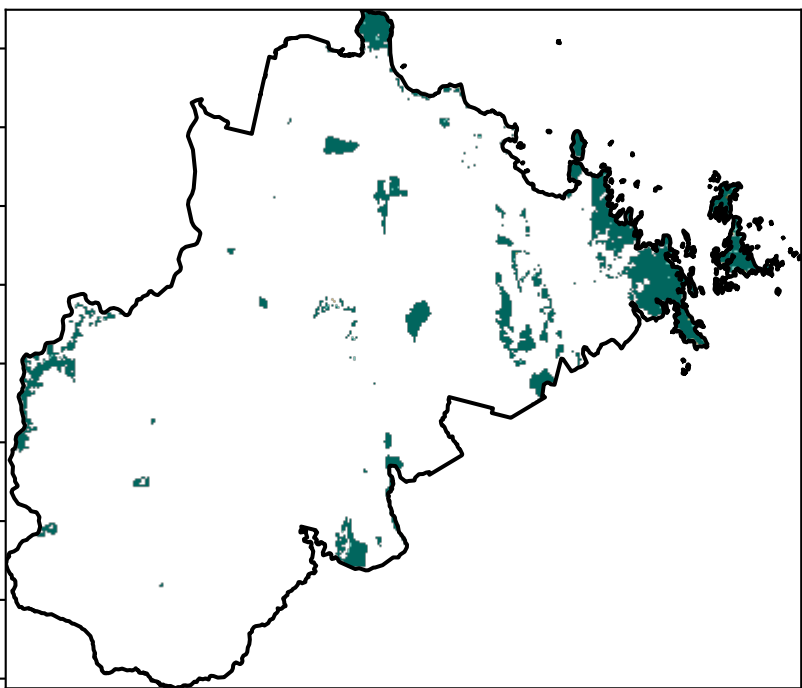
Catchment Scale Land Use and Forests of Australia (2018)
Derived from Catchment Scale Land Use of Australia (2018) and Forests of Australia (2018)



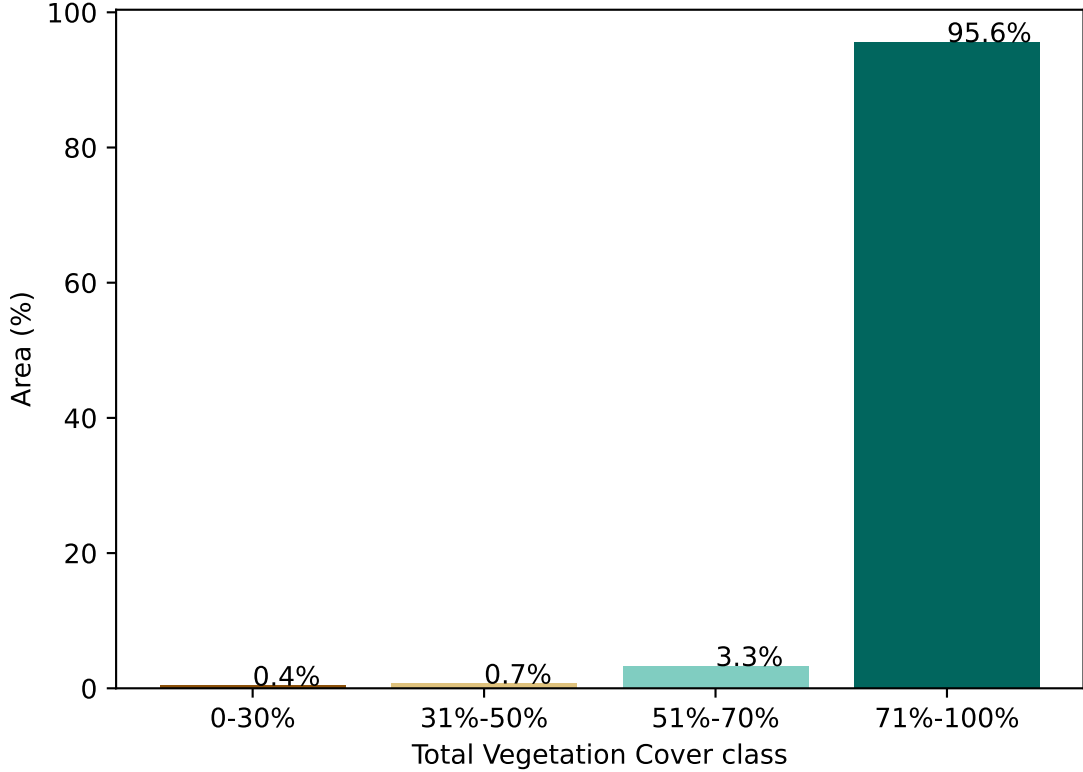
Proportion of each land class in area



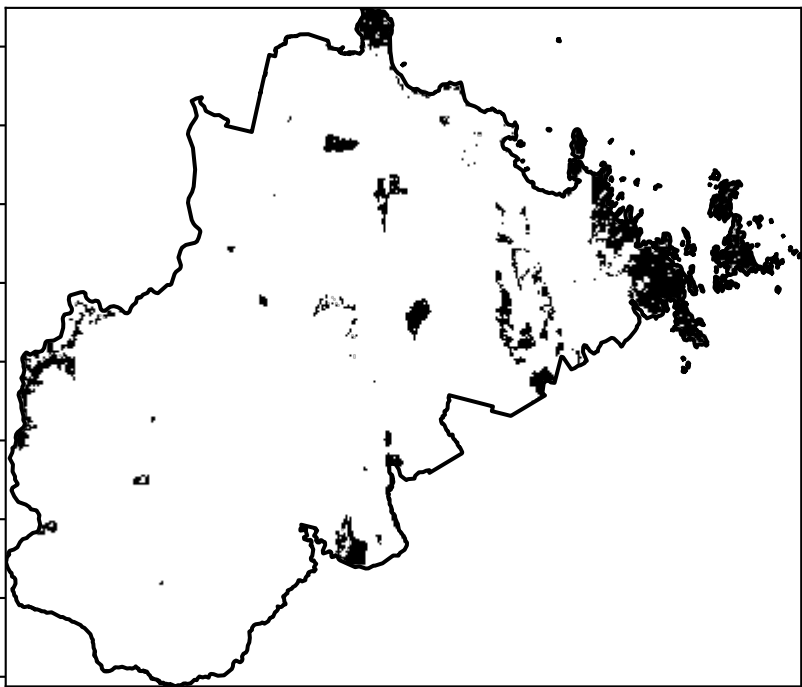
Total Vegetation Cover [%]



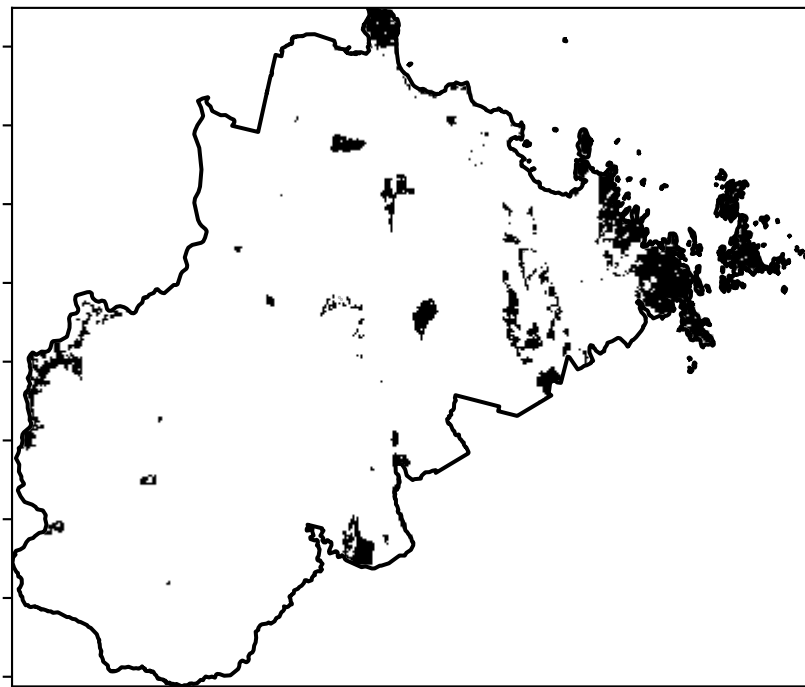
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

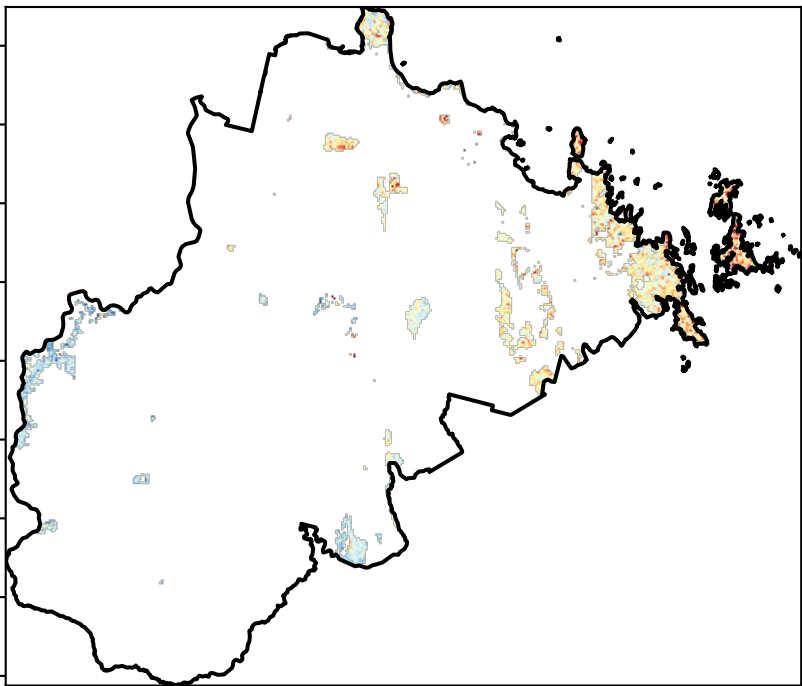


% Area protected from wind erosion (>50%)



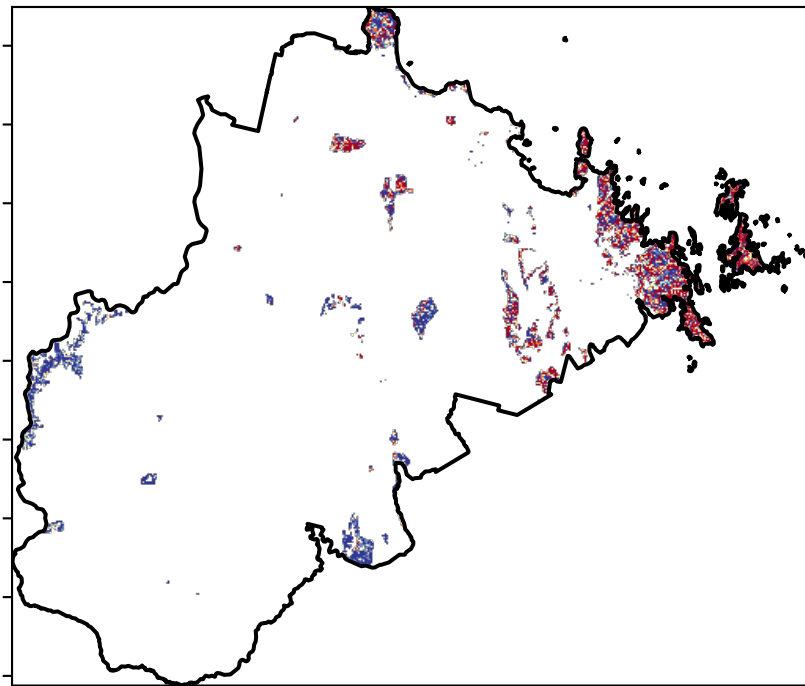
Total Vegetation Cover Anomaly [%]

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Total Vegetation Cover Decile [%]



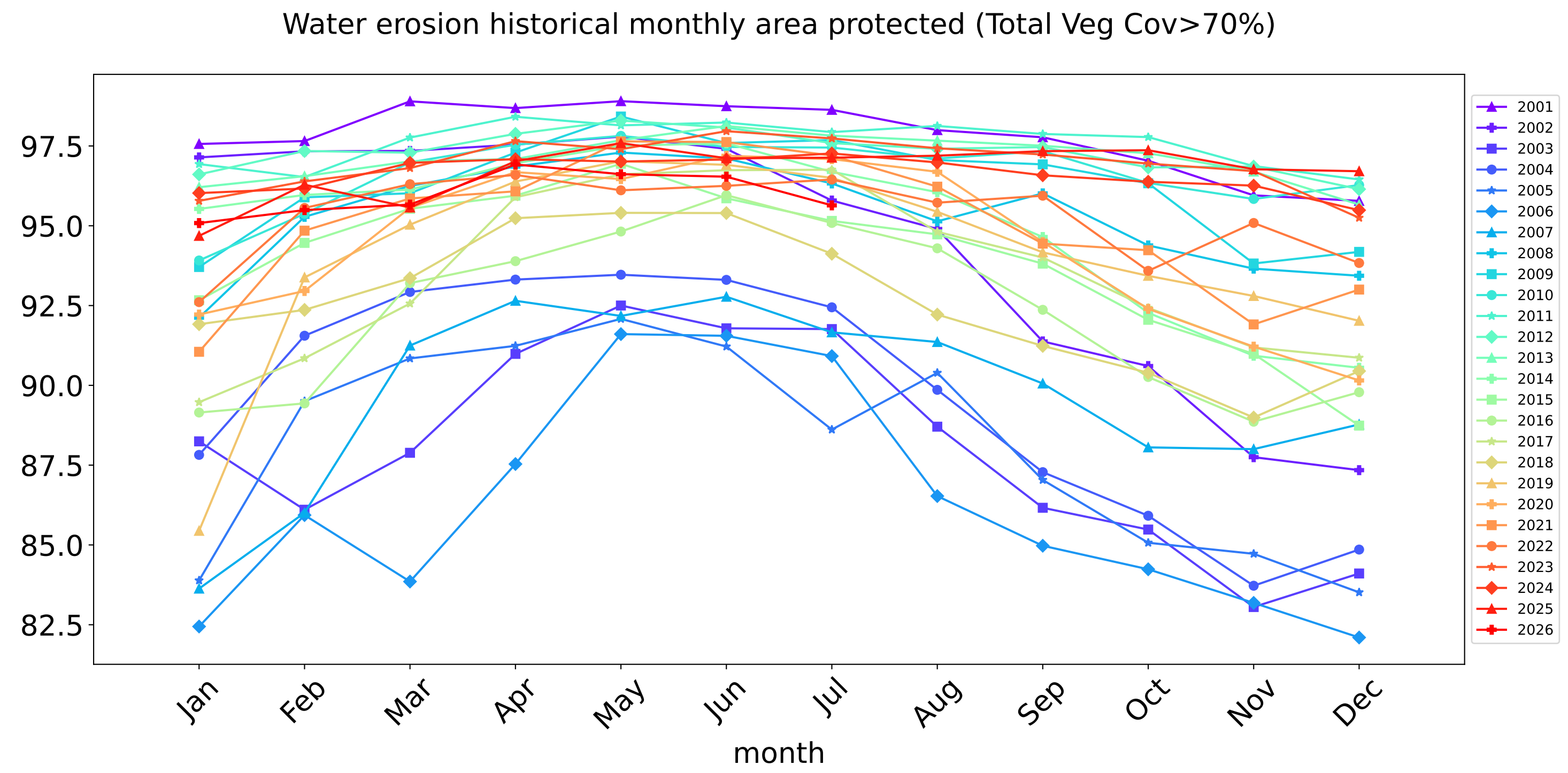
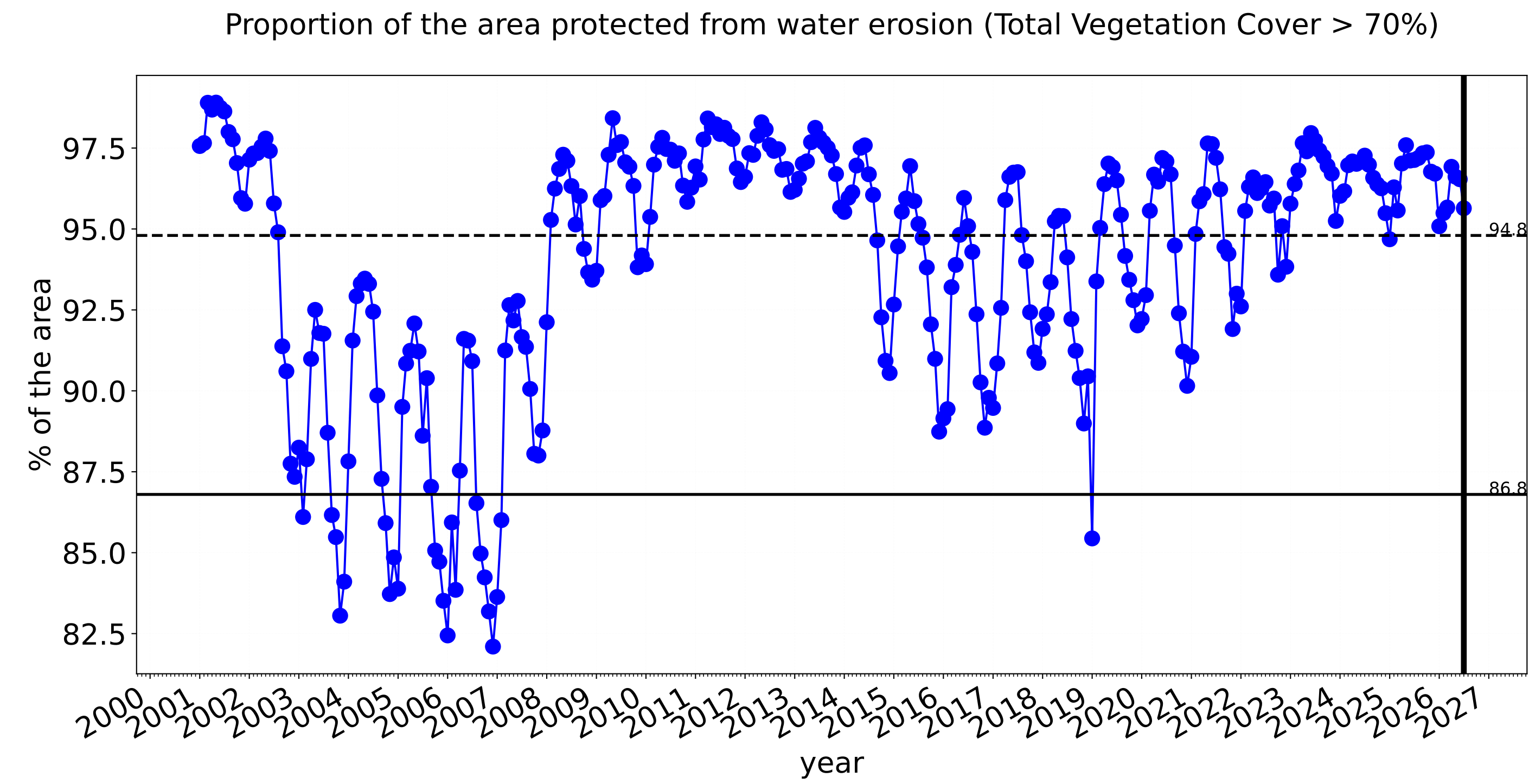
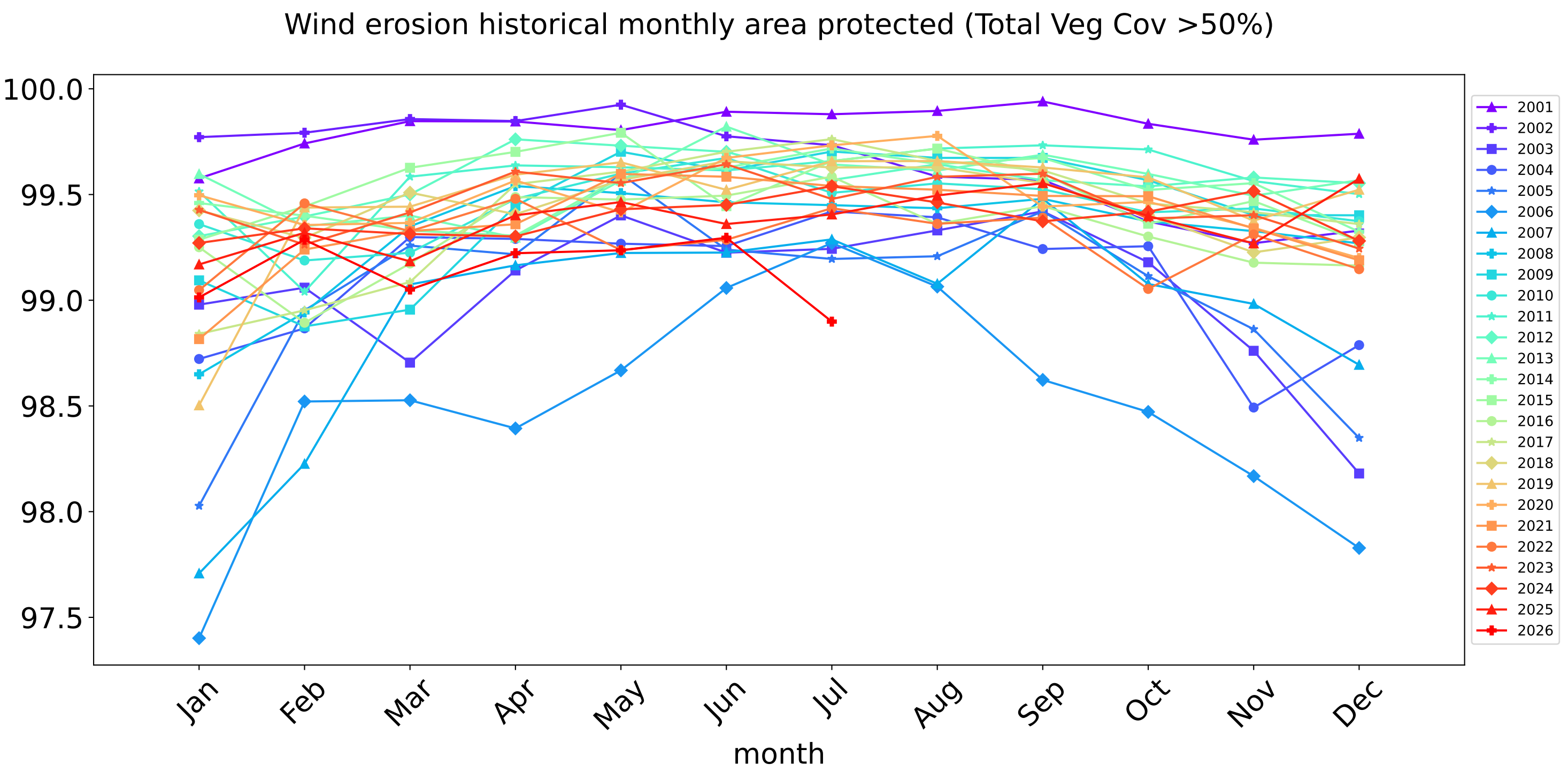
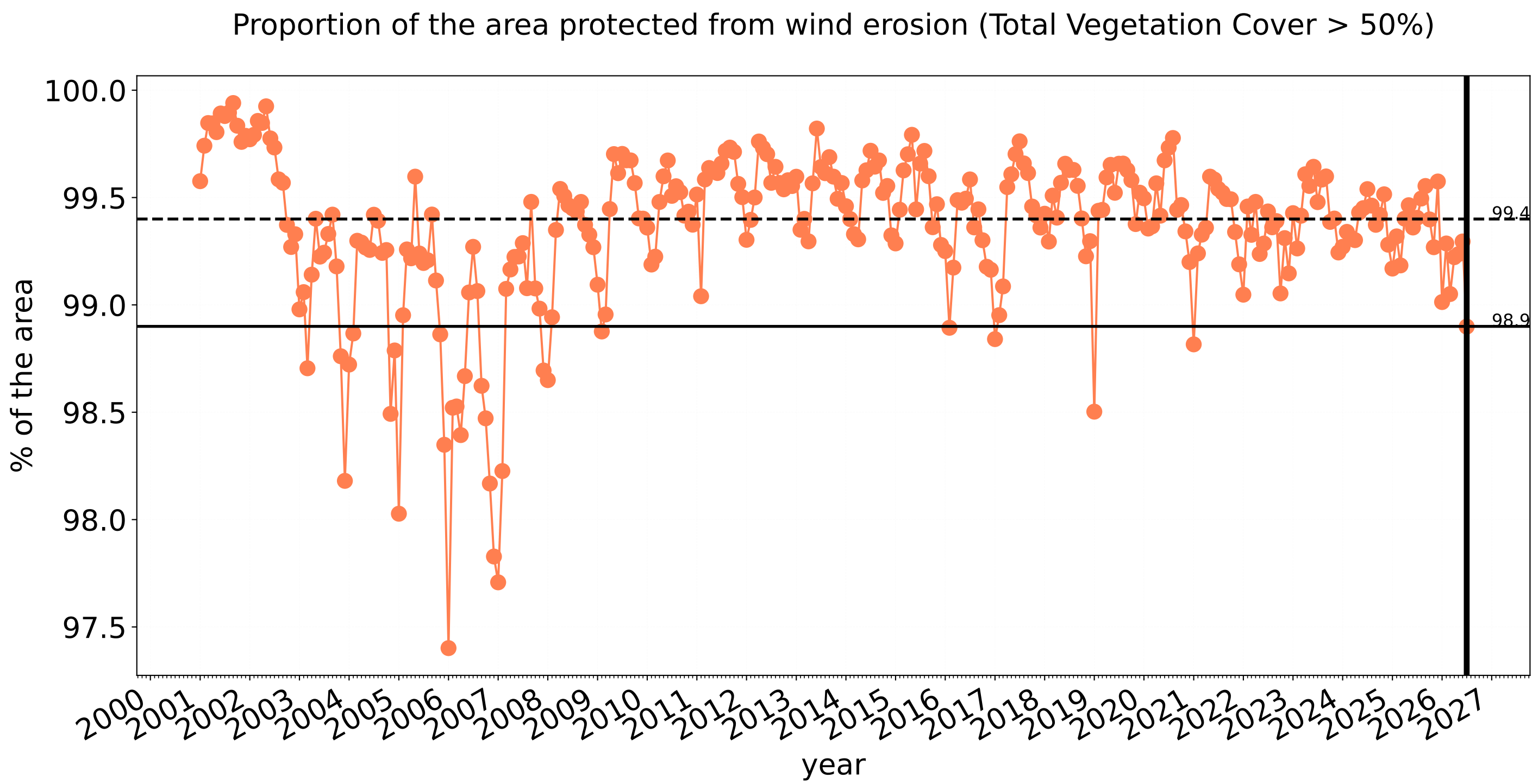
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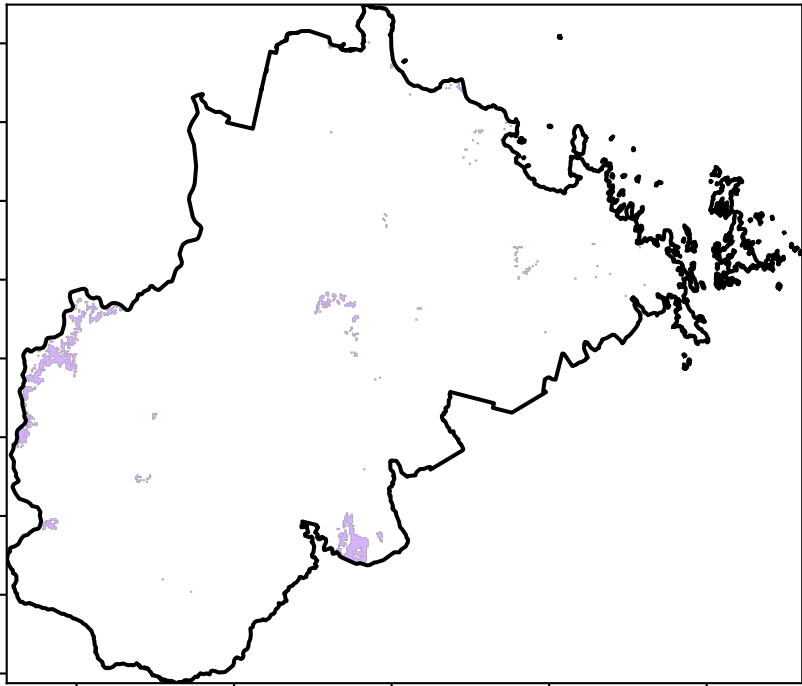
Conservation and natural environments timeseries



Conservation and natural environments non forest

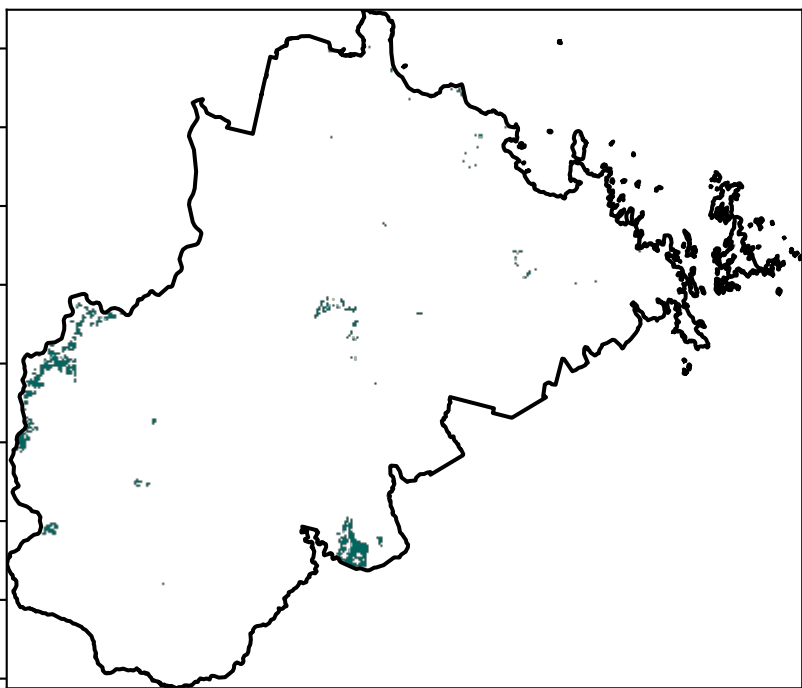
Land use and forest cover

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Derived from Catchment Scale Land Use of Australia (2018) and Forests of Australia (2018)

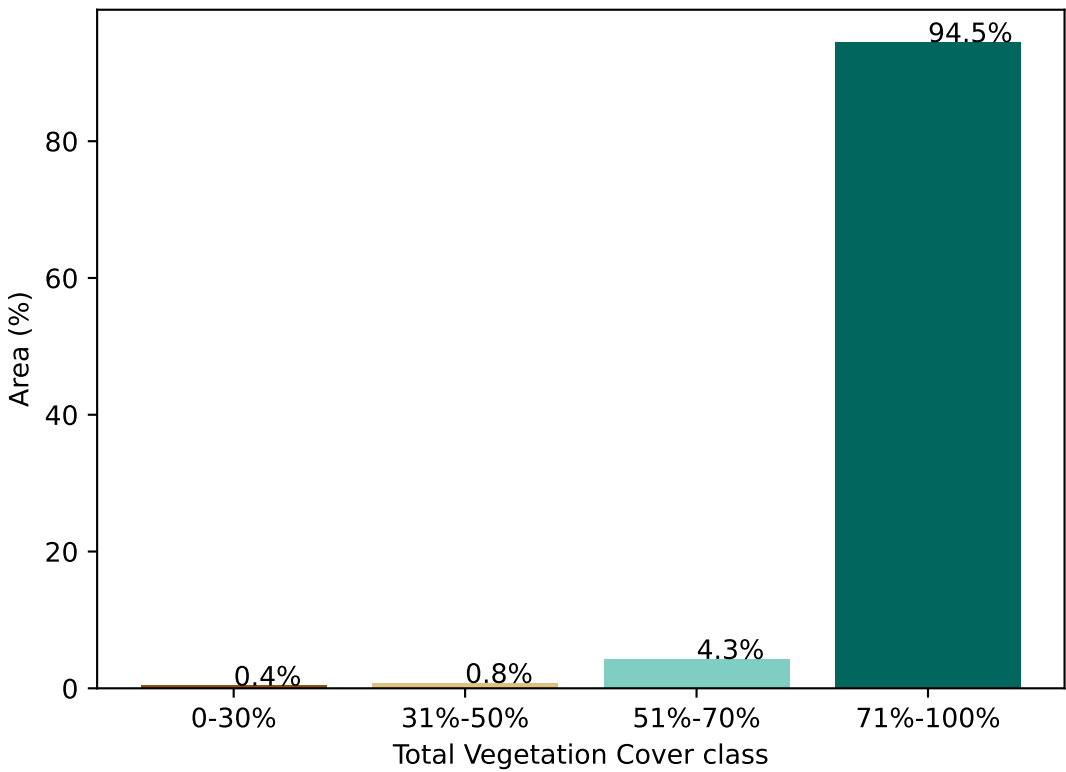


1 Conservation and natural environments - Non-forest

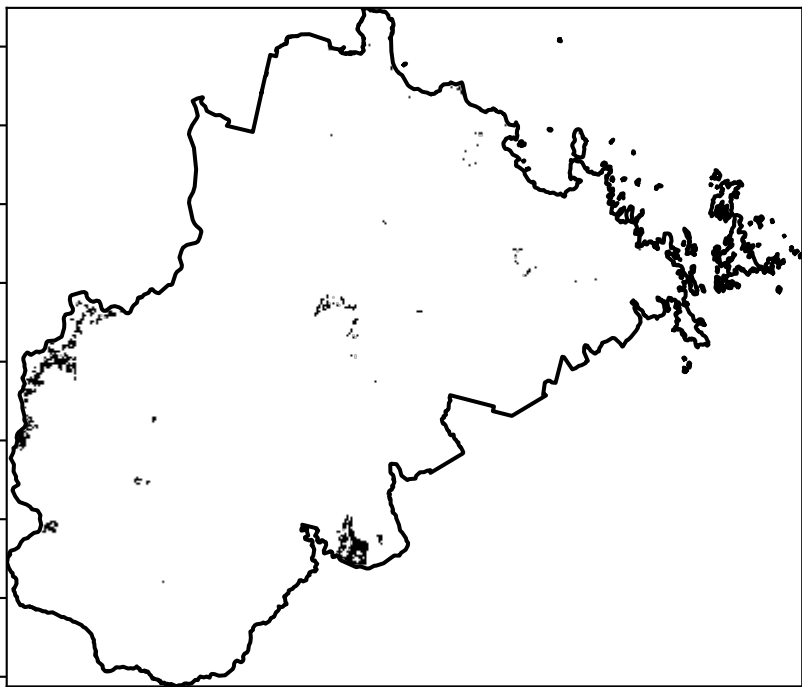
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

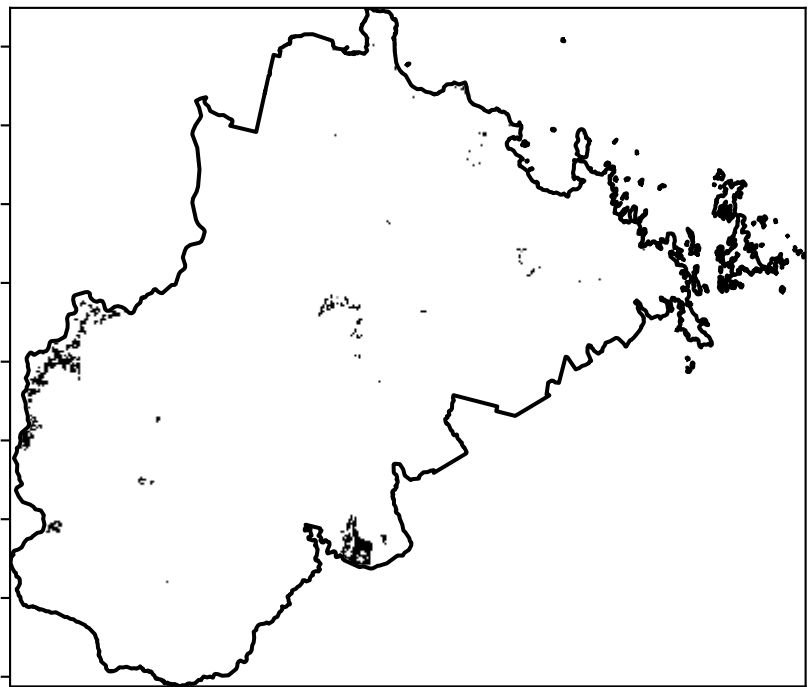


% Area protected from water erosion (>70%)



Area not protected
5.5% of region
(1,562 ha)
Area protected
94.5% of region
(26,838 ha)

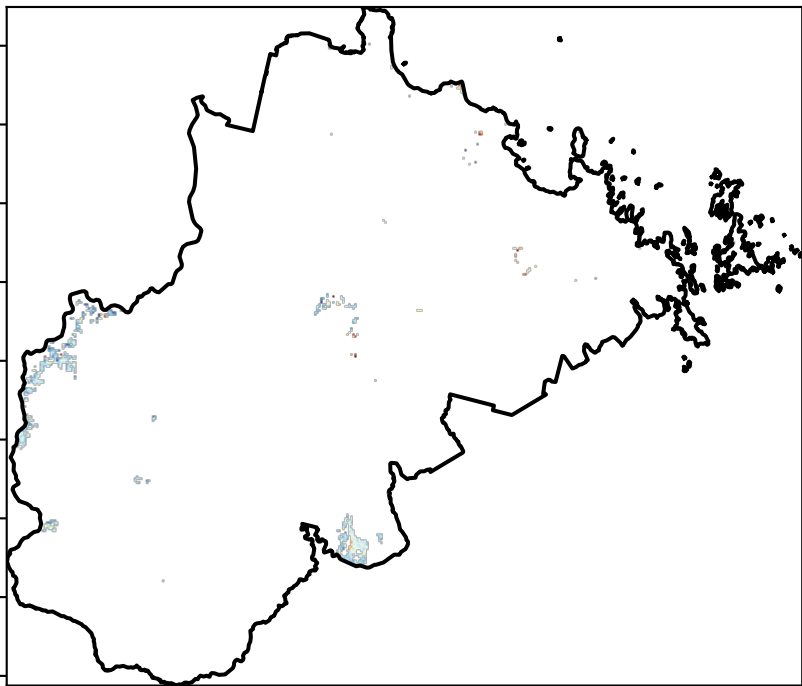
% Area protected from wind erosion (>50%)



Area not protected
1.0% of region
(284 ha)
Area protected
99.0% of region
(28,116 ha)

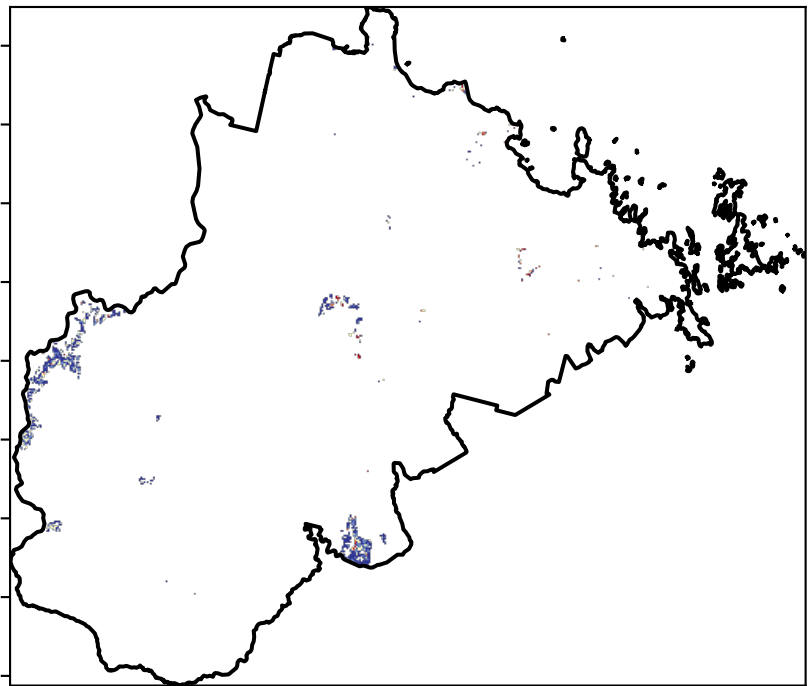
Total Vegetation Cover Anomaly [%]

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Total Vegetation Cover Decile [%]



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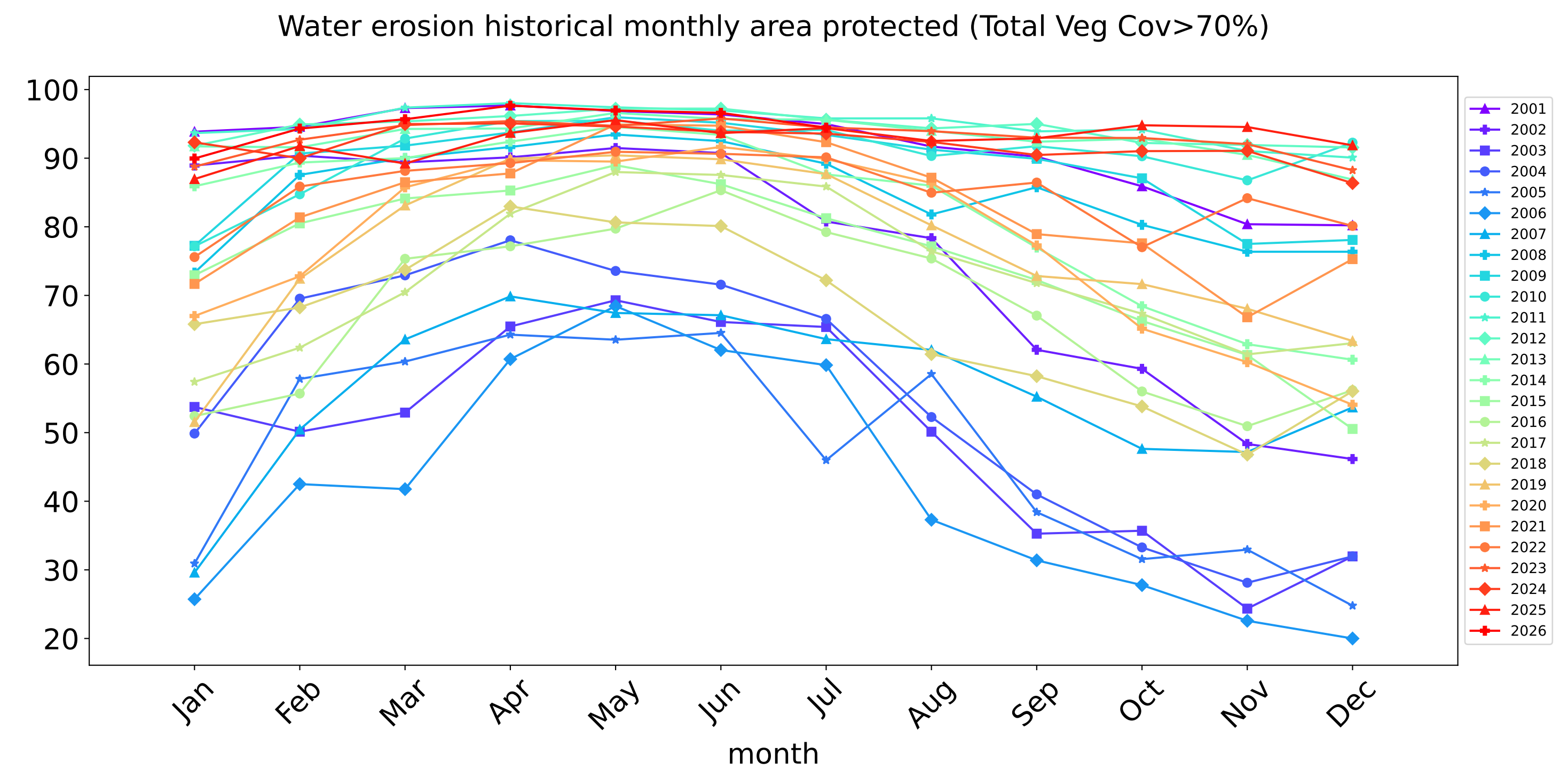
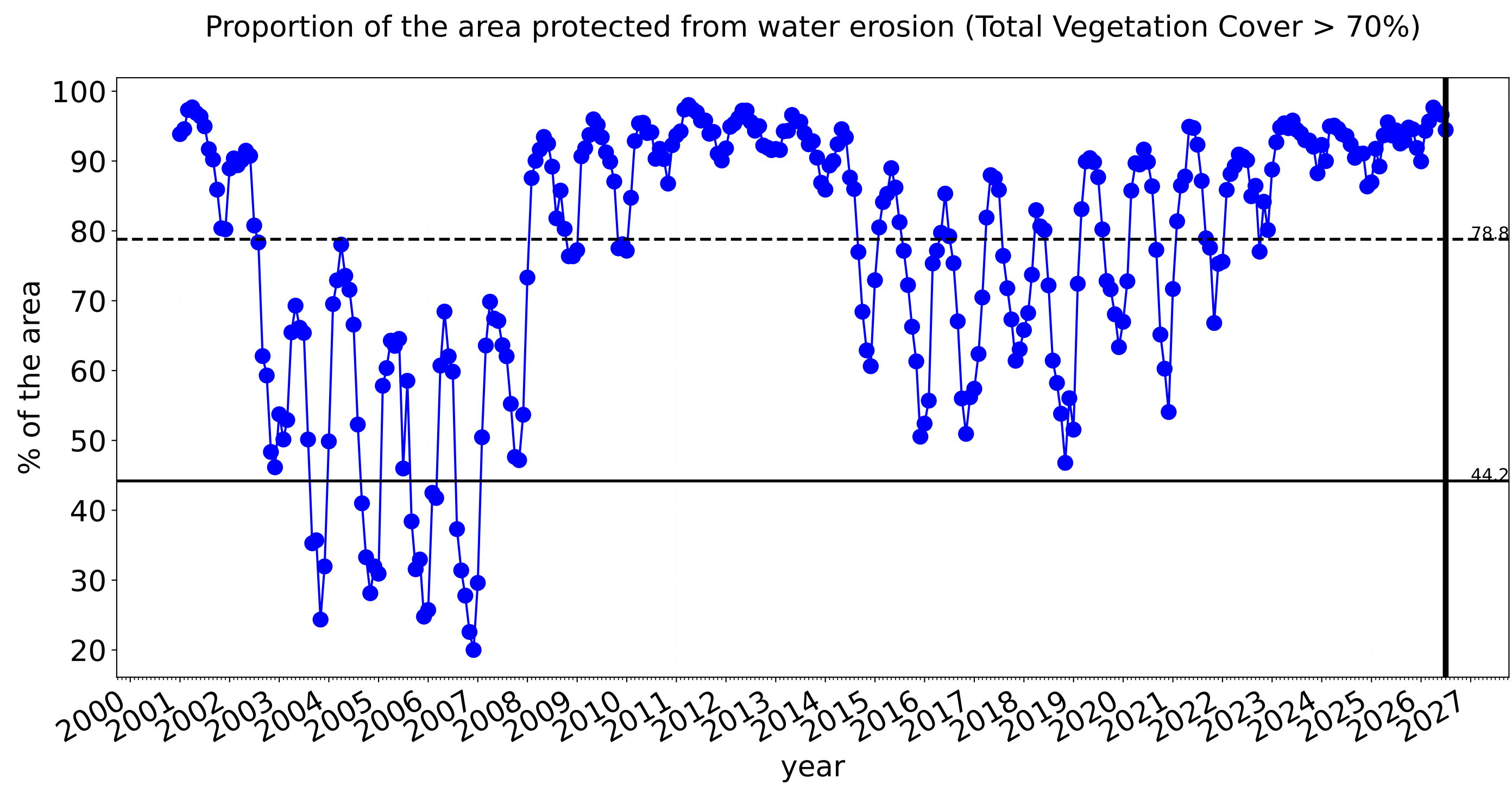
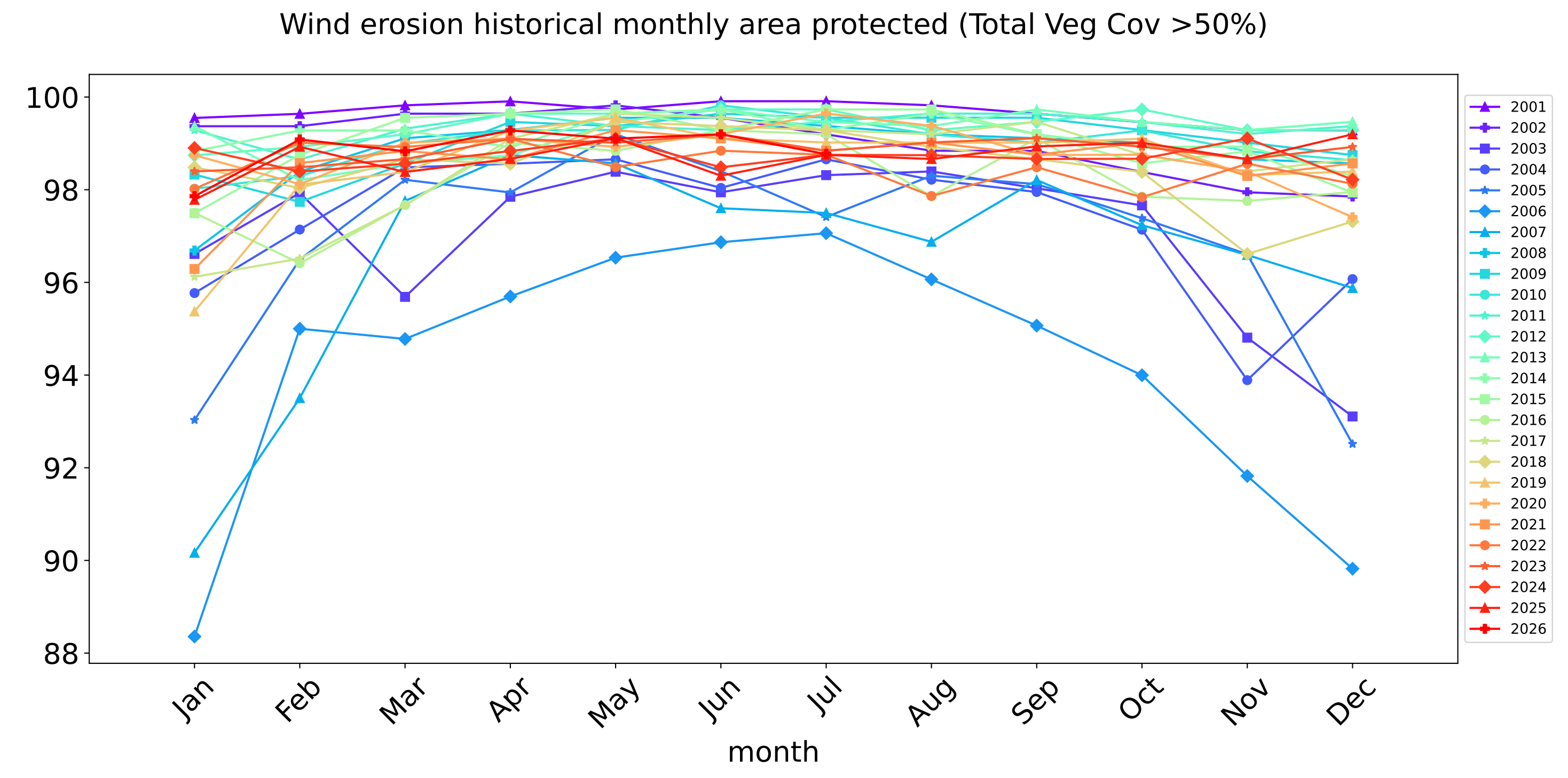
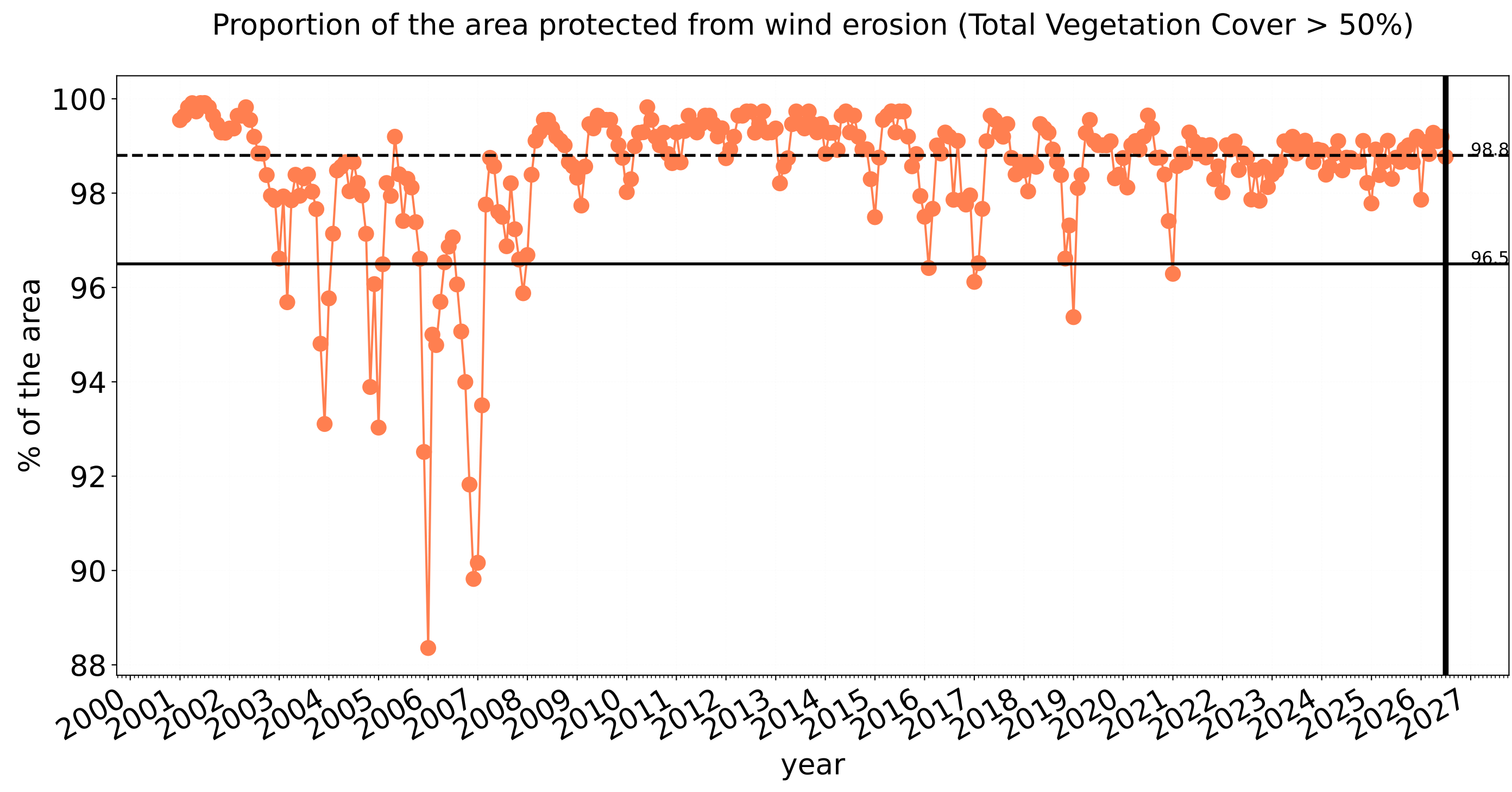


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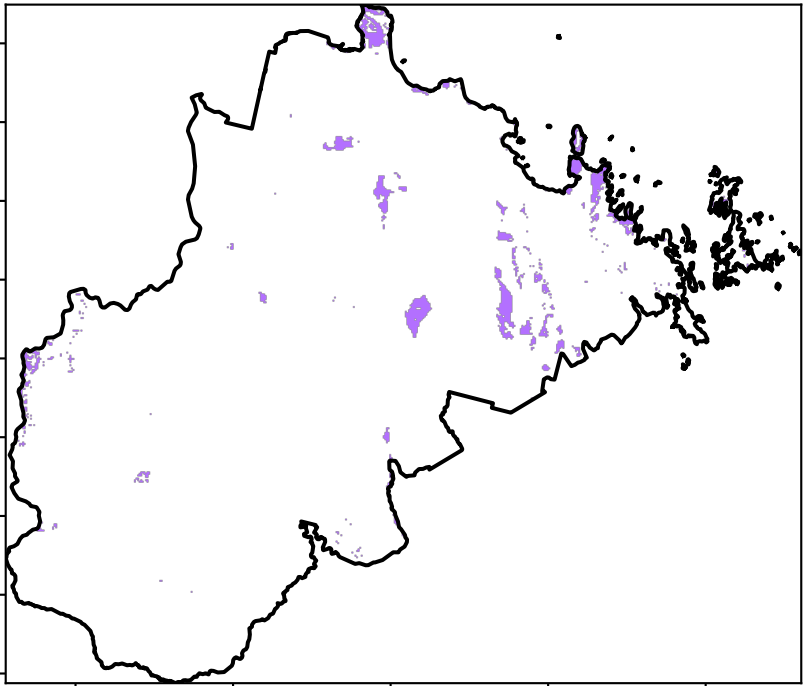
Conservation and natural environments non forest timeseries



Conservation and natural environments Woodland forest

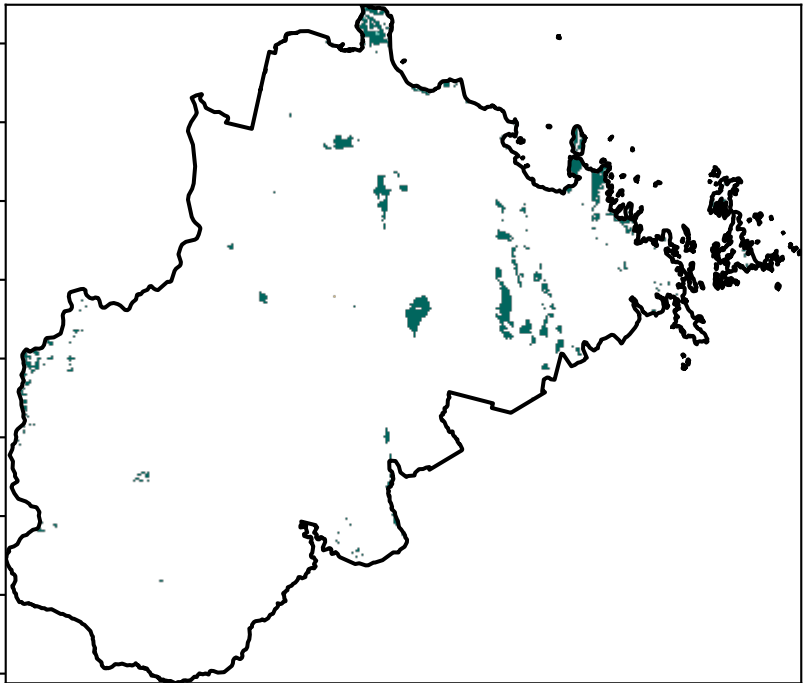
Land use and forest cover

Catchment Scale
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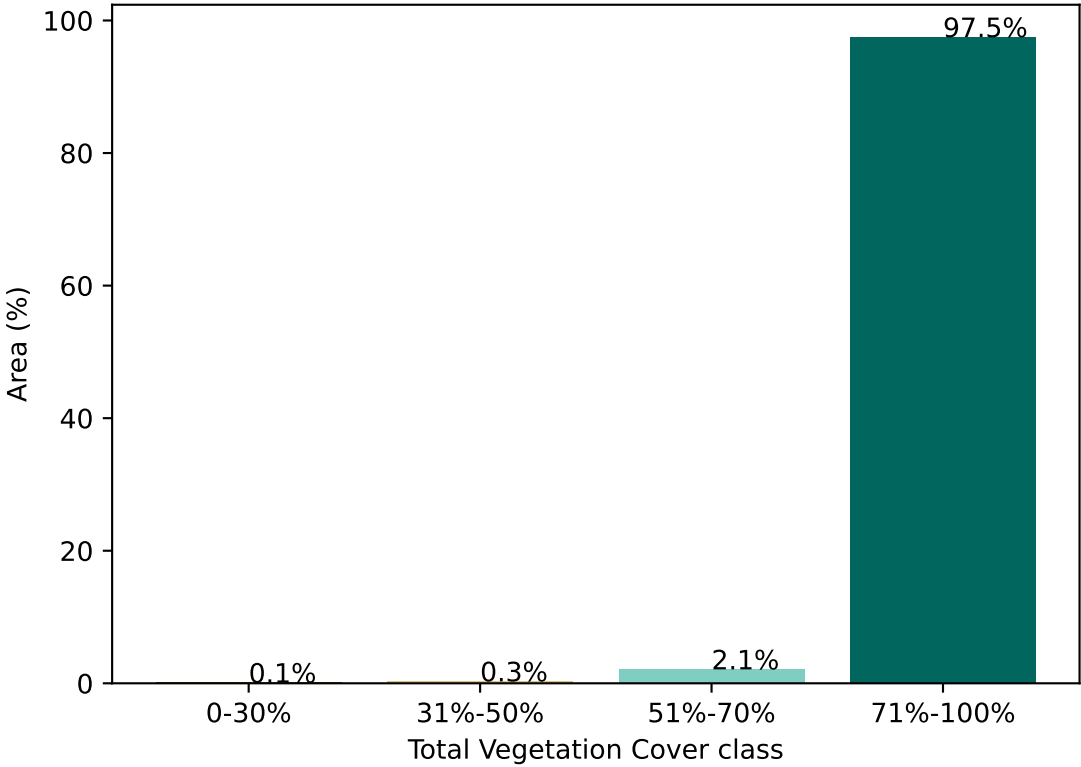


1 Conservation and natural environments - Woodland forest

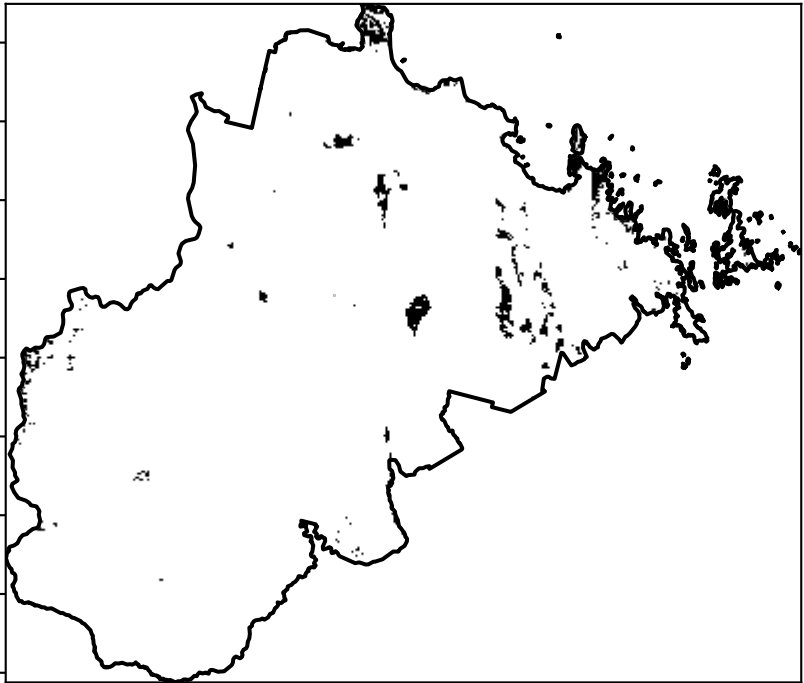
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

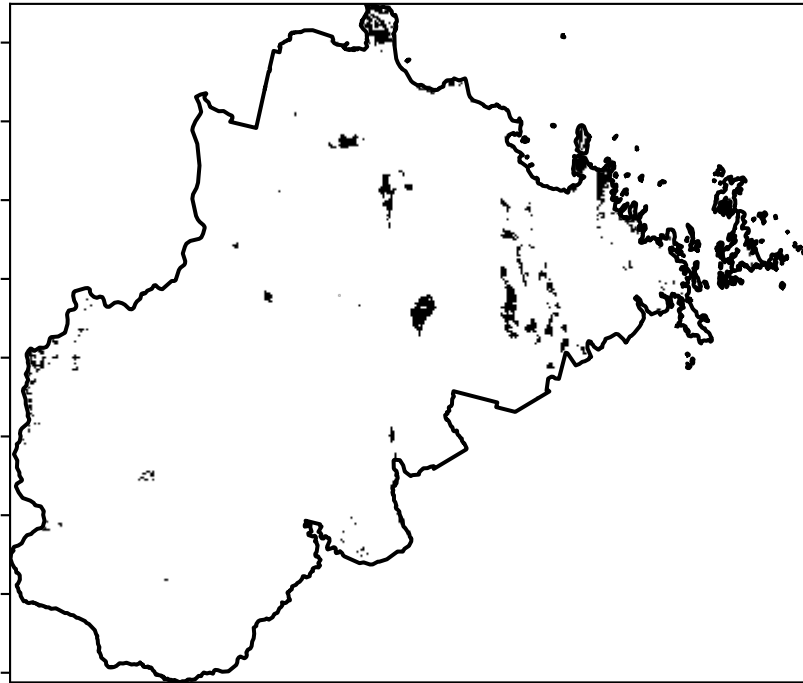


% Area protected from water erosion (>70%)



Area not protected
2.5% of region
(1,429 ha)
Area protected
97.5% of region
(55,721 ha)

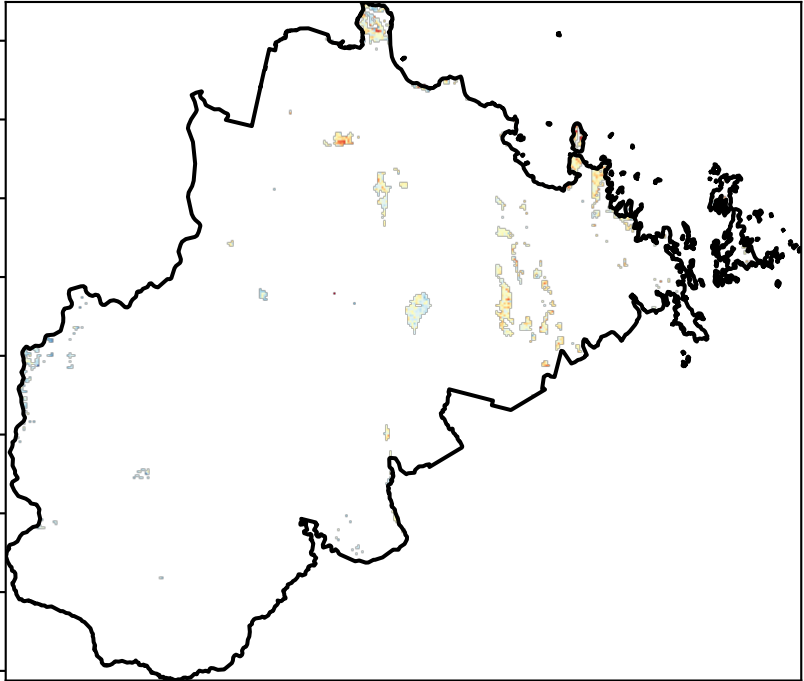
% Area protected from wind erosion (>50%)



Area not protected
0.0% of region (0 ha)
Area protected
100.0% of region
(57,150 ha)

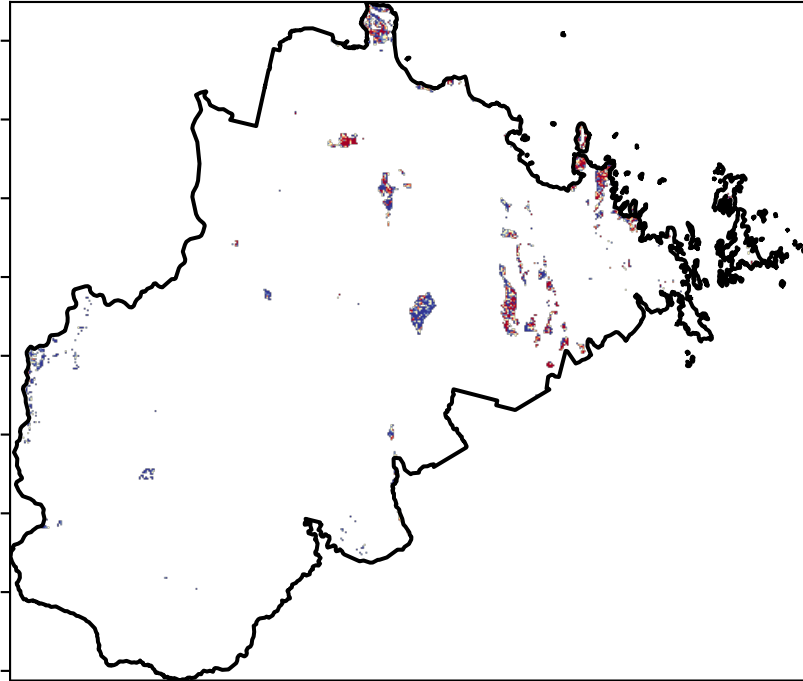
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



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Total Vegetation Cover Decile [%]



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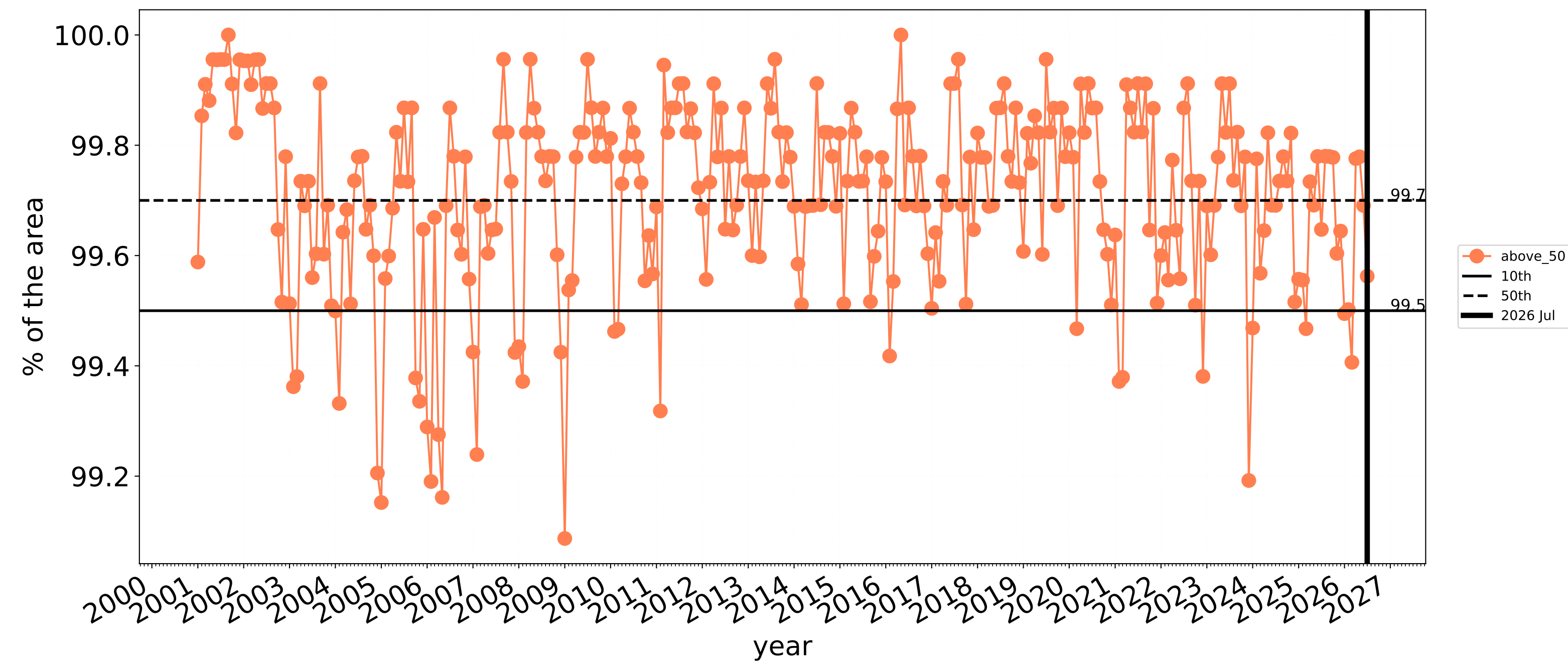
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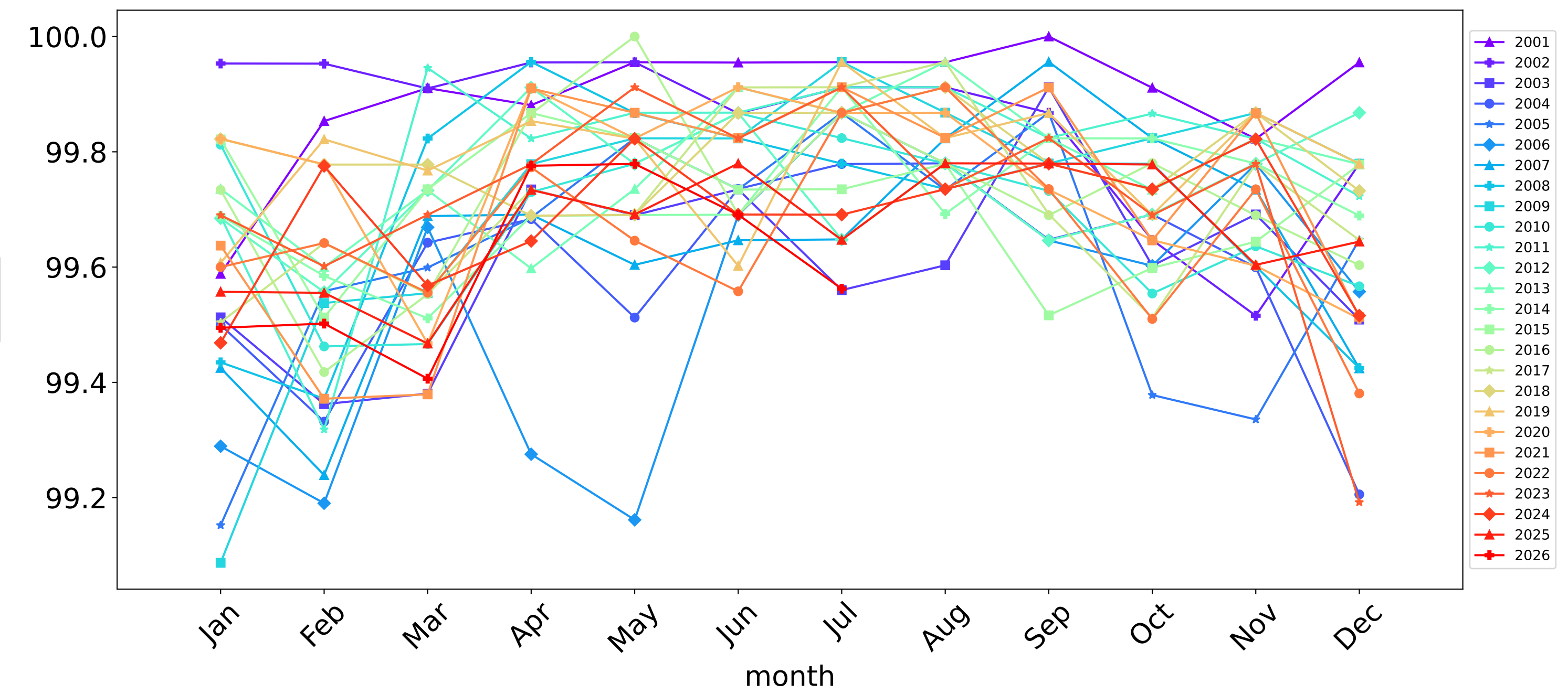


Conservation and natural environments Woodland forest timeseries

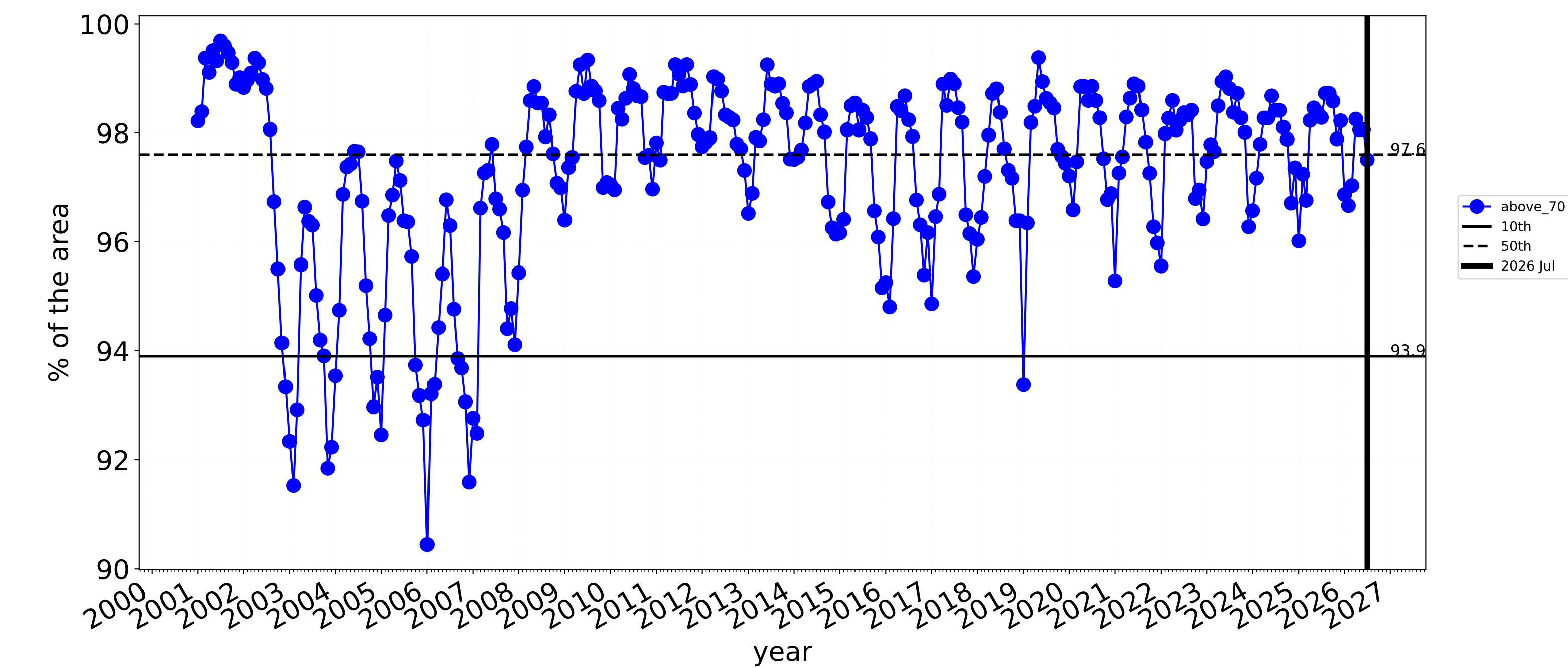
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



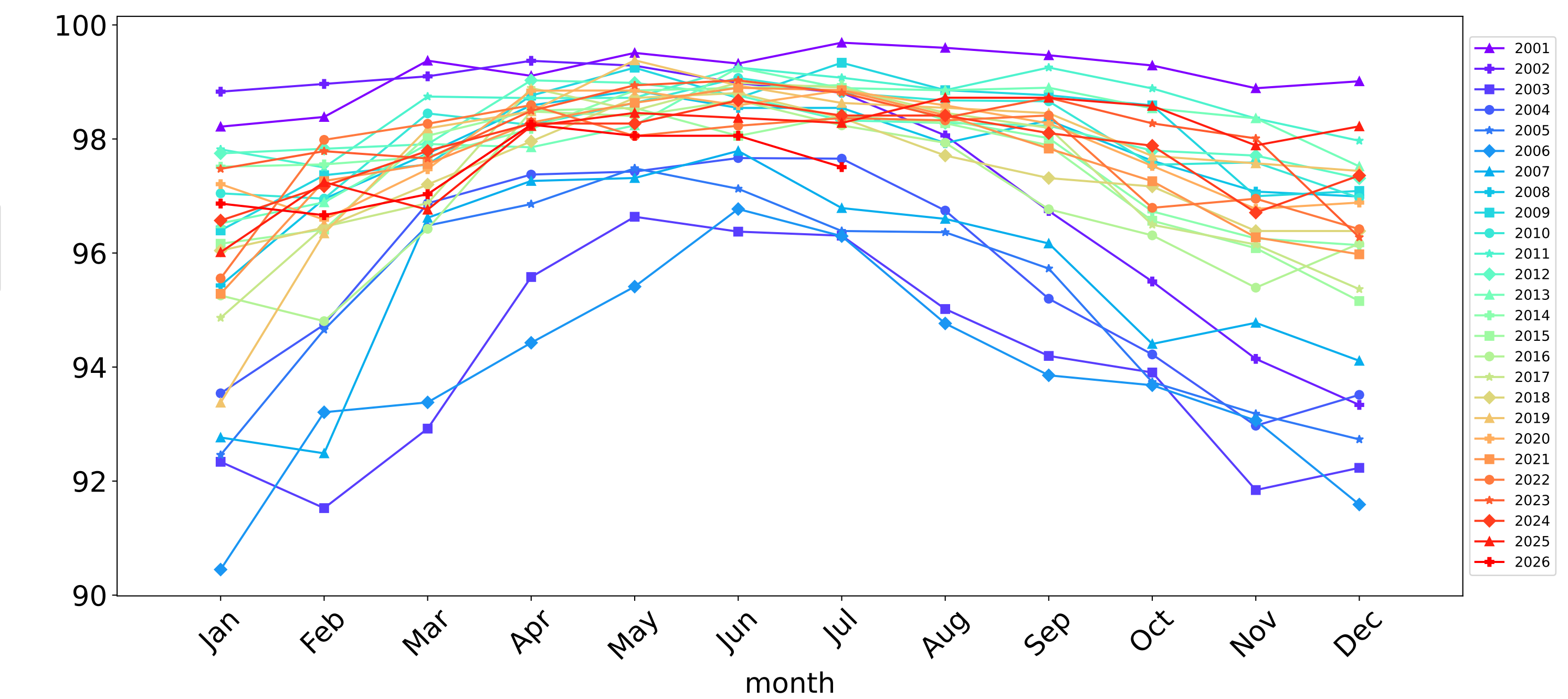
Wind erosion historical monthly area protected (Total Veg Cov >50%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



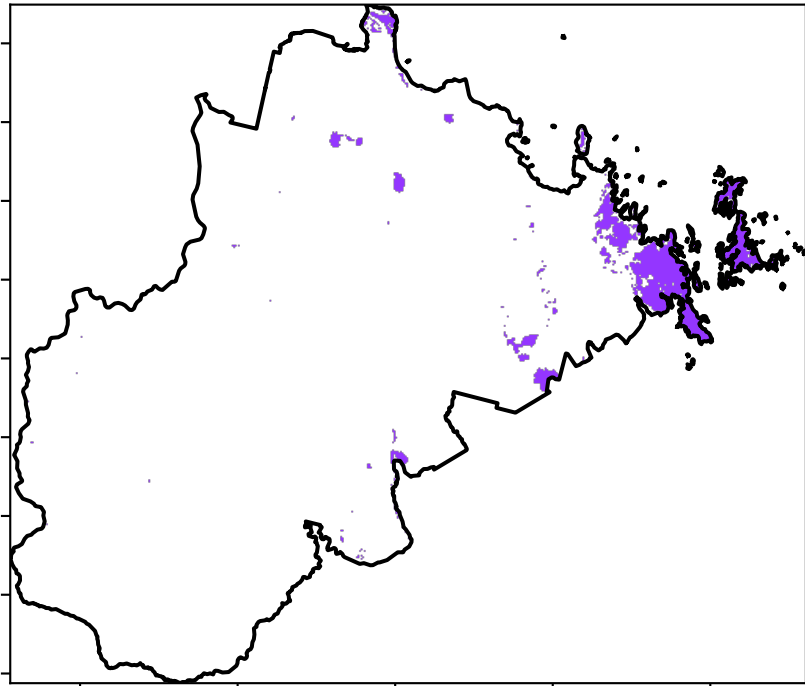
Water erosion historical monthly area protected (Total Veg Cov>70%)



Conservation and natural environments Forest (non woodland)

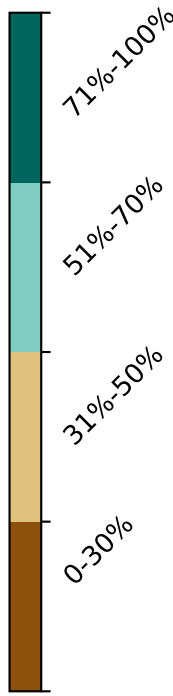
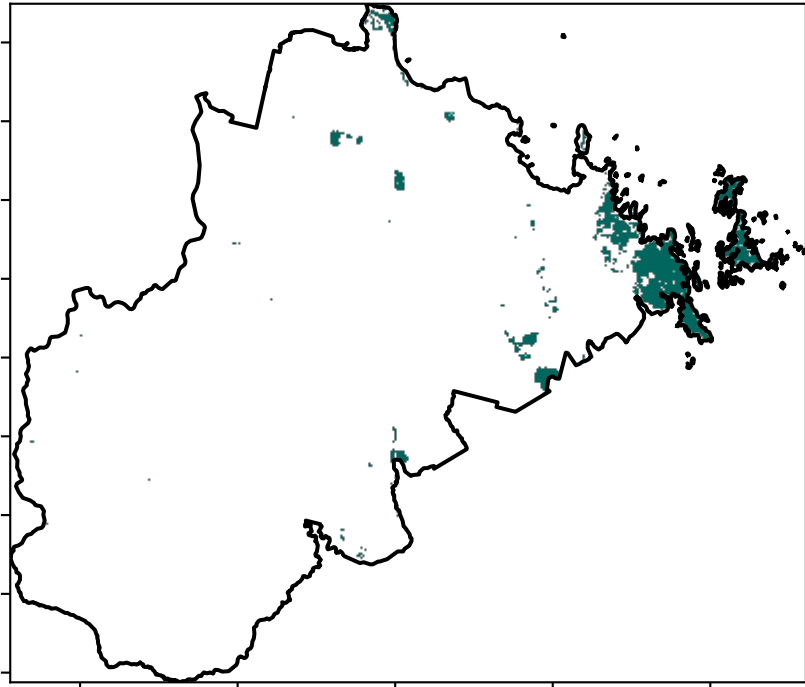
Land use and forest cover

Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Land Use of Australia (2018) and Forests of Australia (2018)

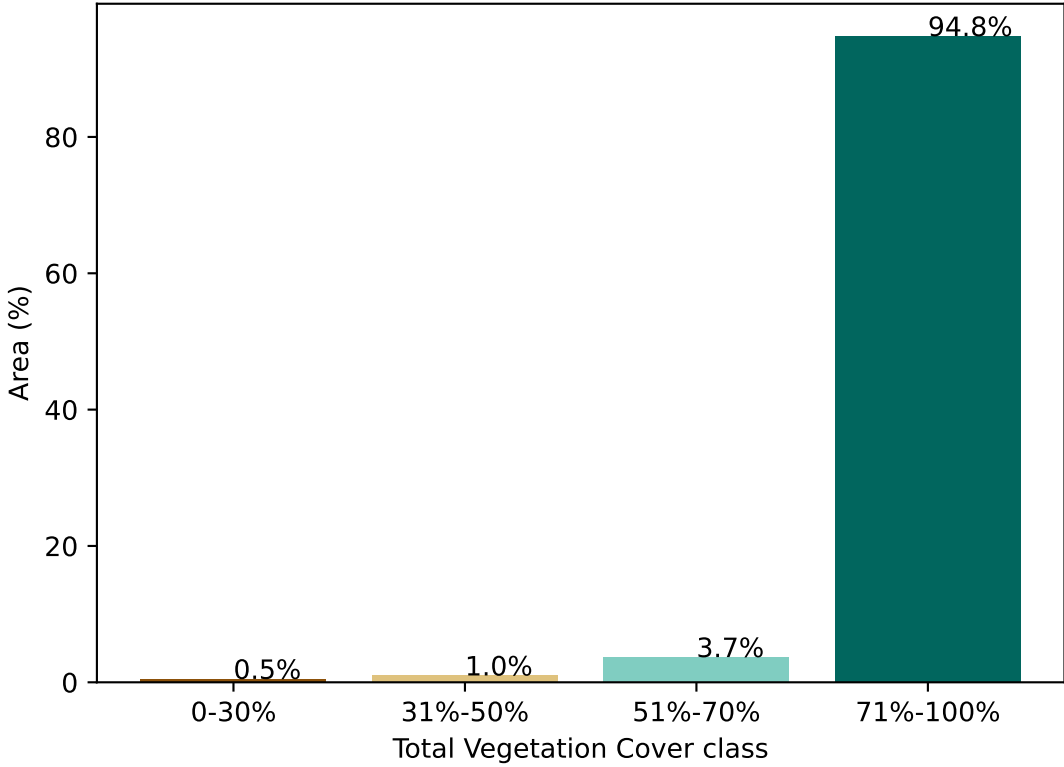


1 Conservation and natural environments - Non-woodland forest

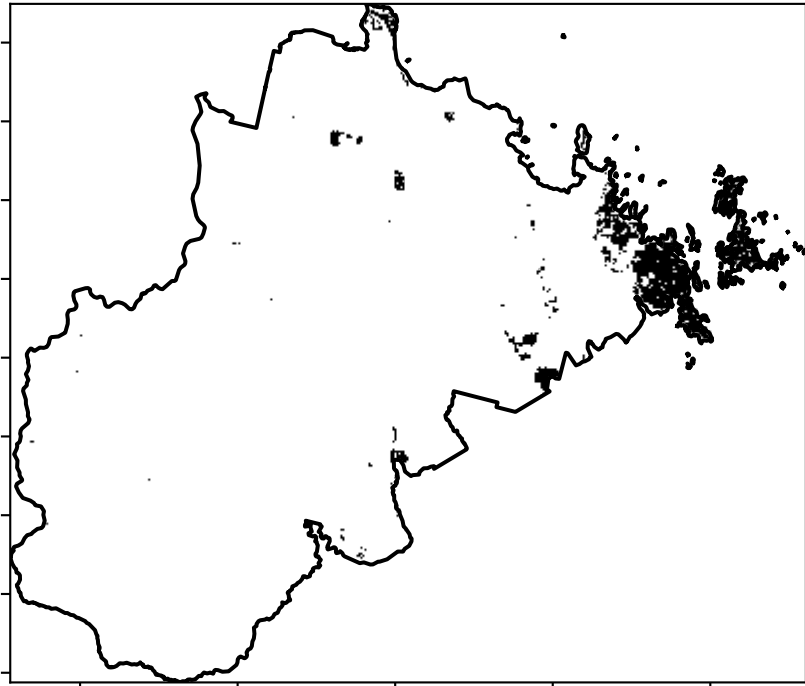
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

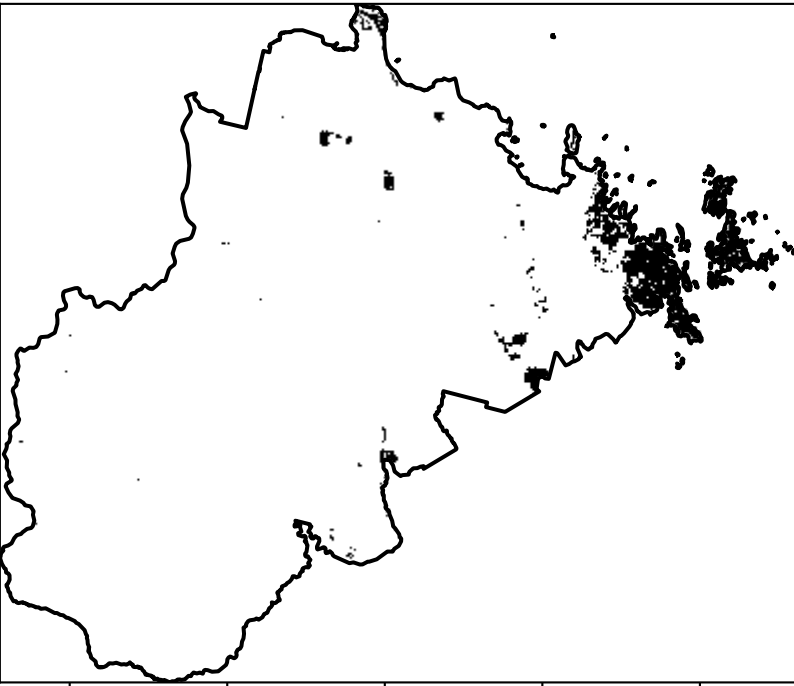


% Area protected from water erosion (>70%)



Area not protected 5.2% of region (4,406 ha)
Area protected 94.8% of region (80,319 ha)

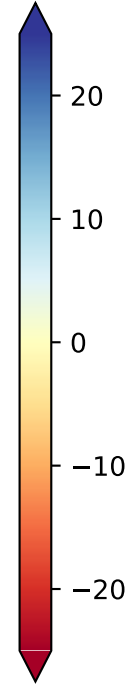
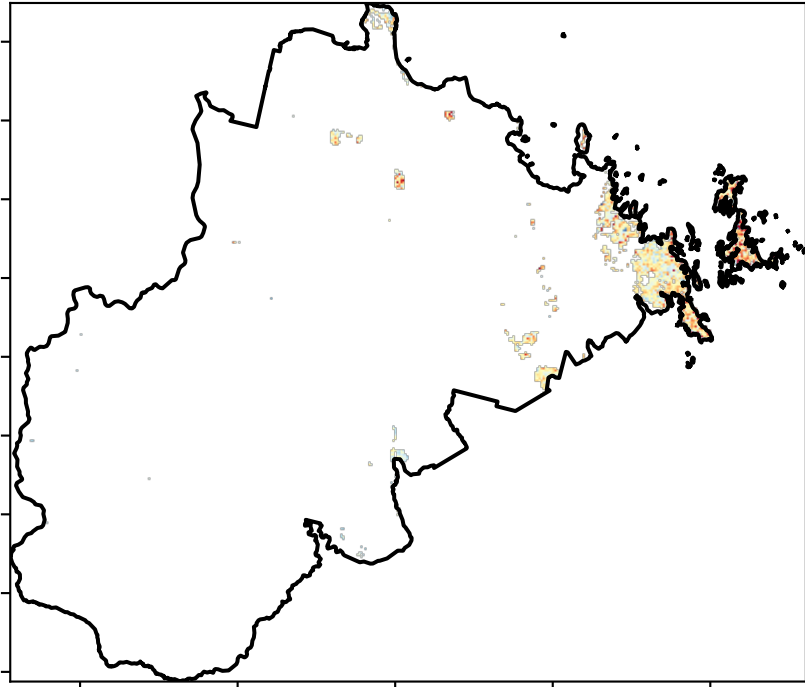
% Area protected from wind erosion (>50%)



Area not protected 2.0% of region (1,694 ha)
Area protected 98.0% of region (83,030 ha)

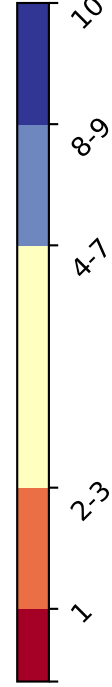
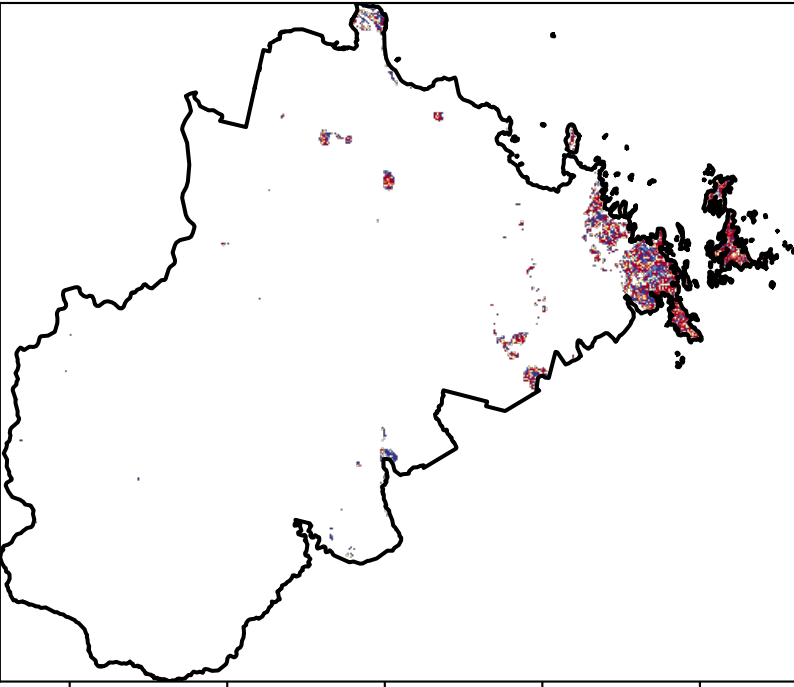
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



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Total Vegetation Cover Decile [%]



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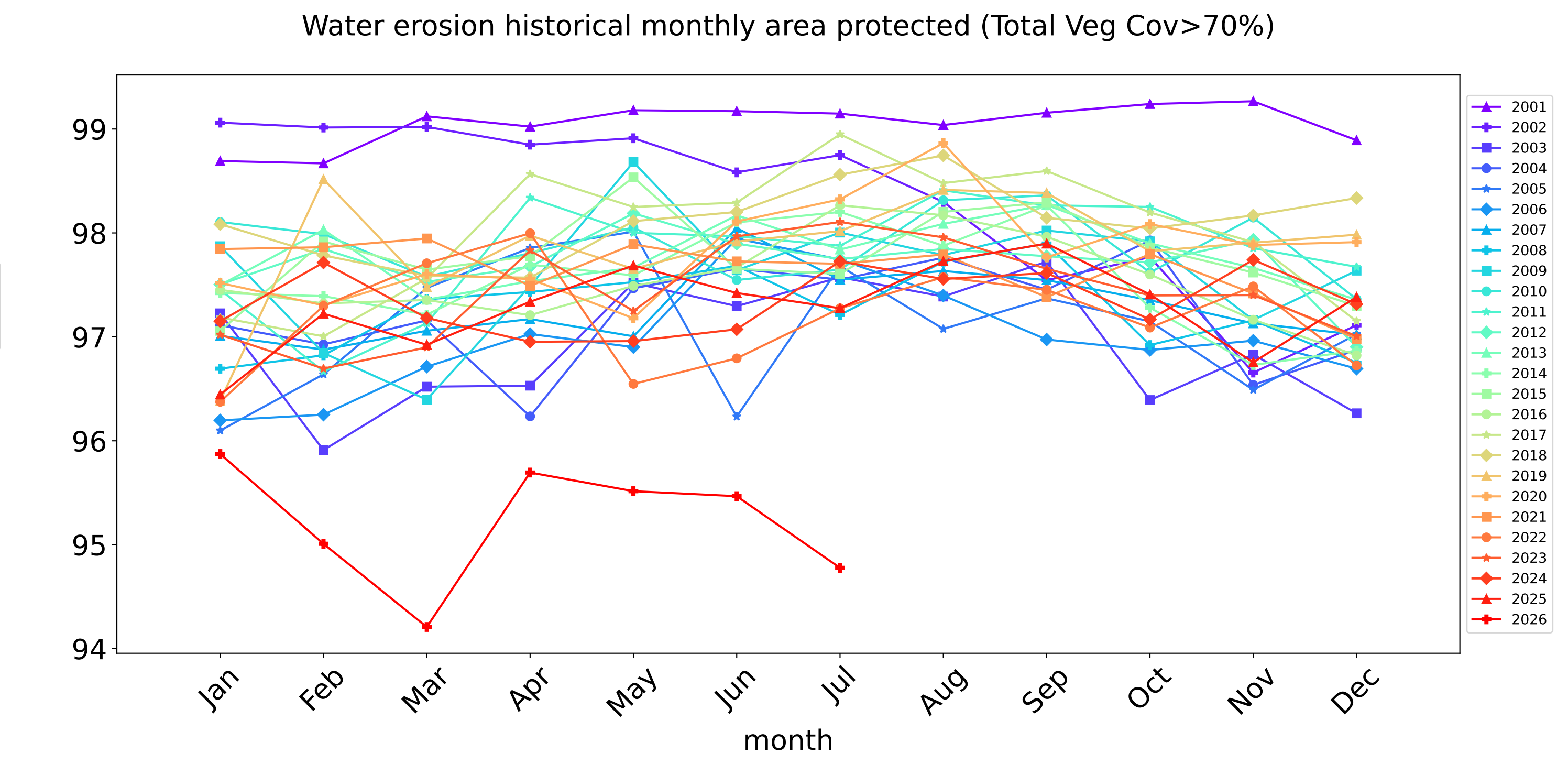
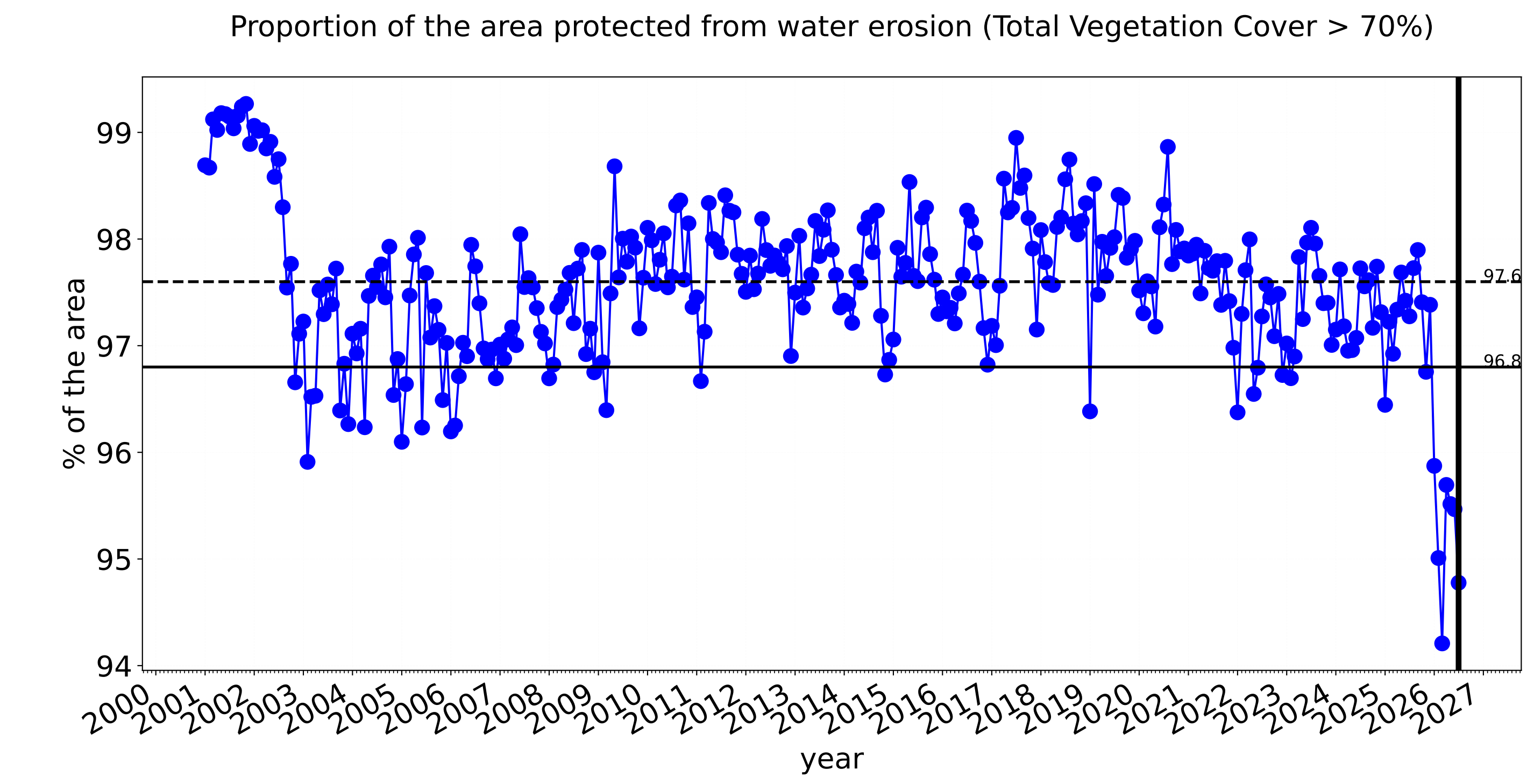
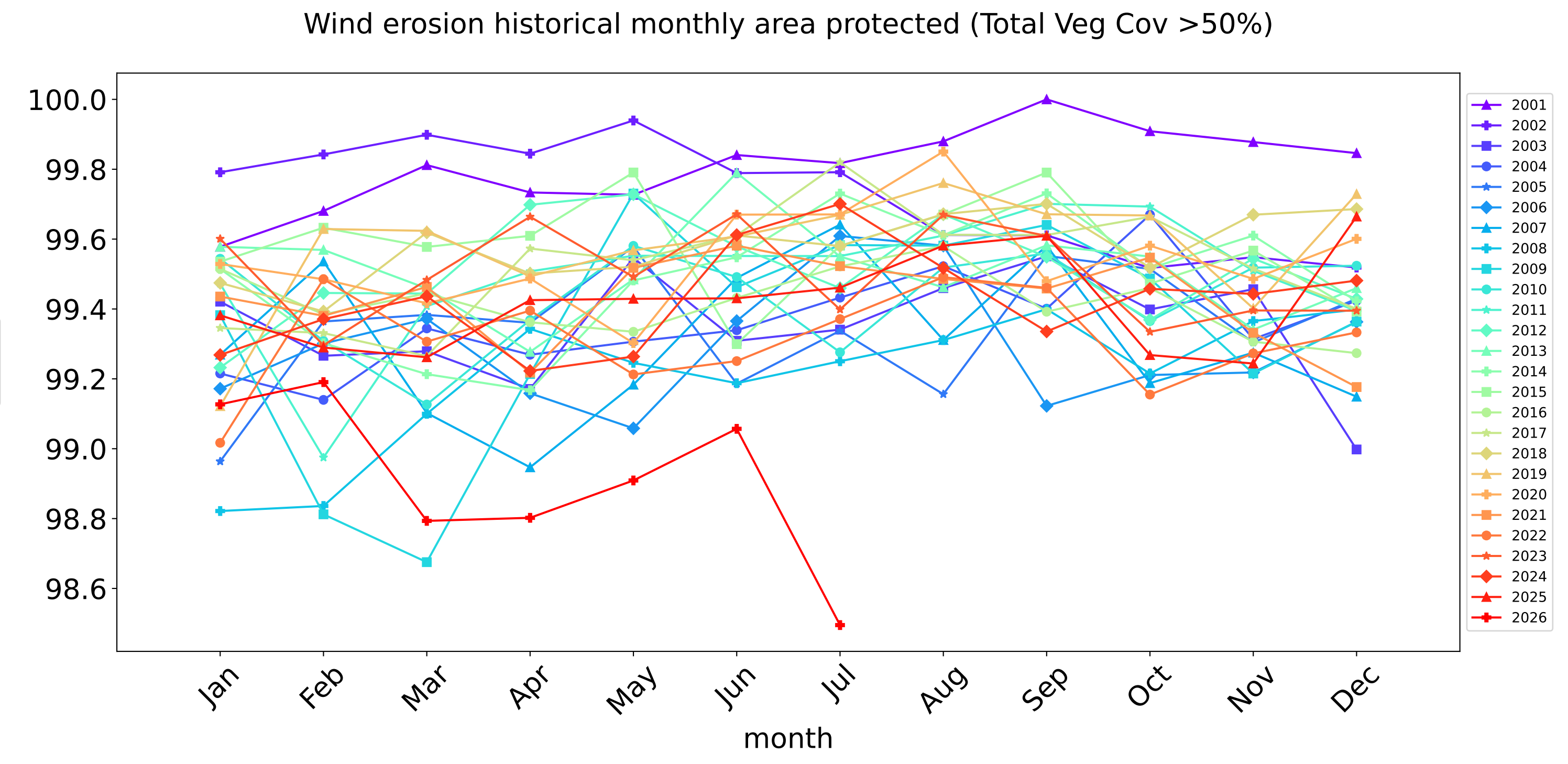
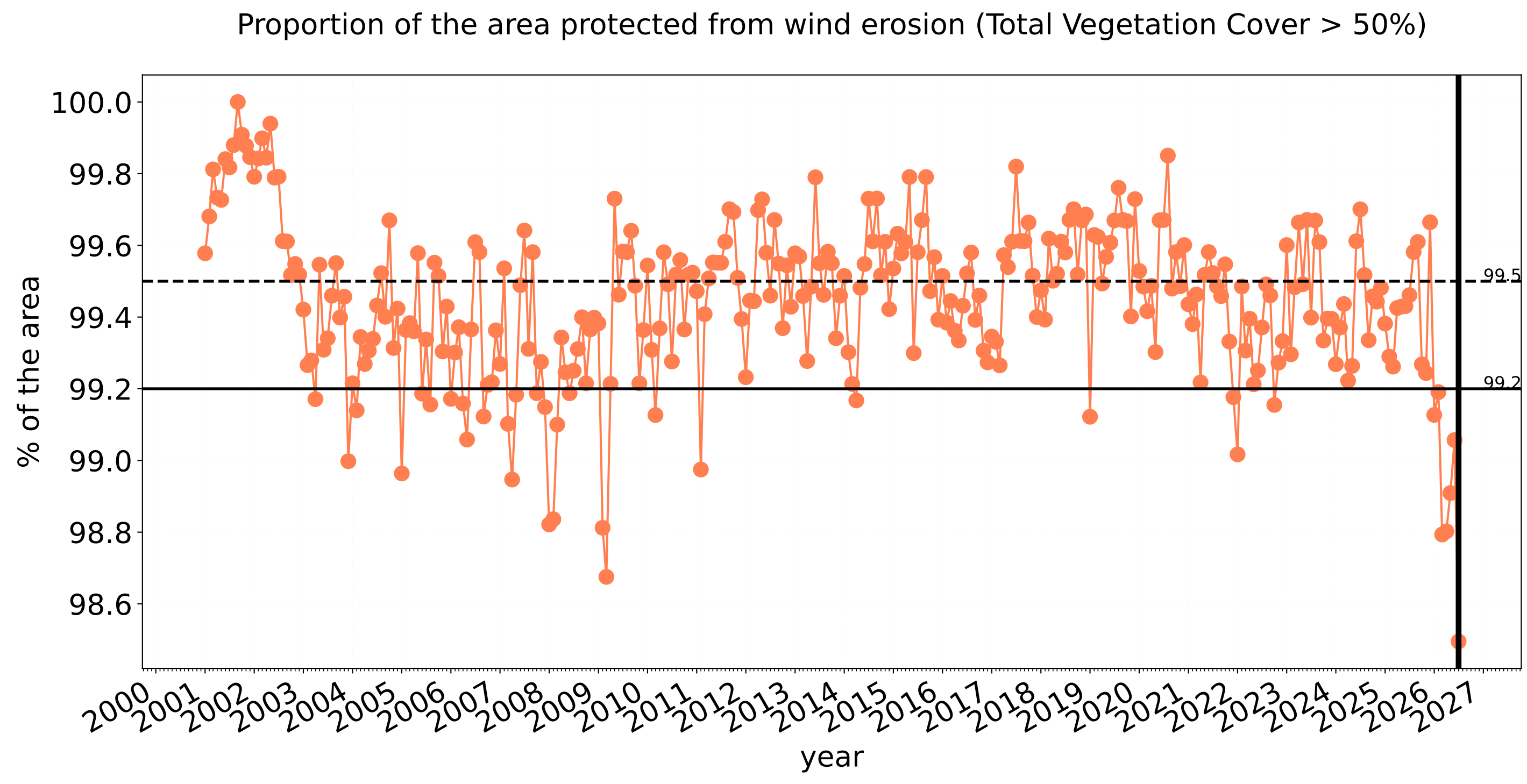


Australian Government

National Landcare Programme



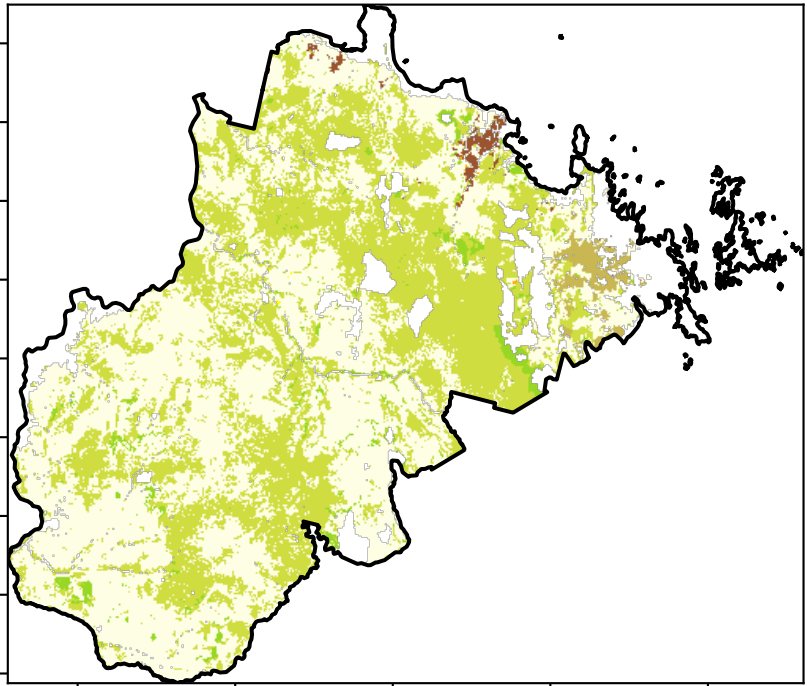
Conservation and natural environments Forest (non woodland) timeseries



Agriculture

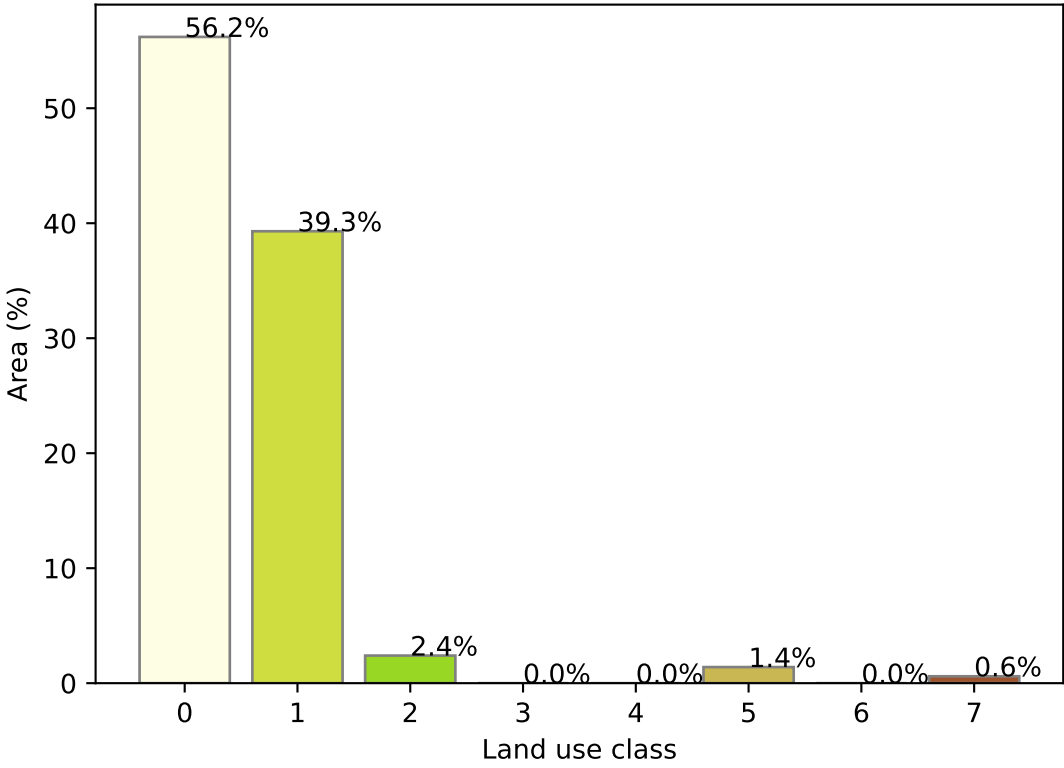
Land use and forest cover

Catchment Scale Land Use and Forests of Australia (2018)
Derived from Catchment Scale Land Use of Australia (2018) and Forests of Australia (2018)

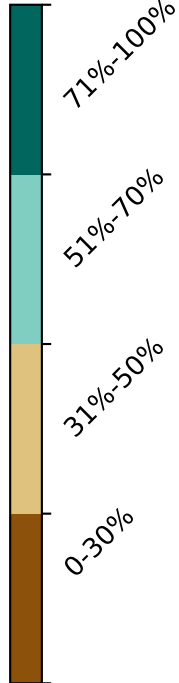
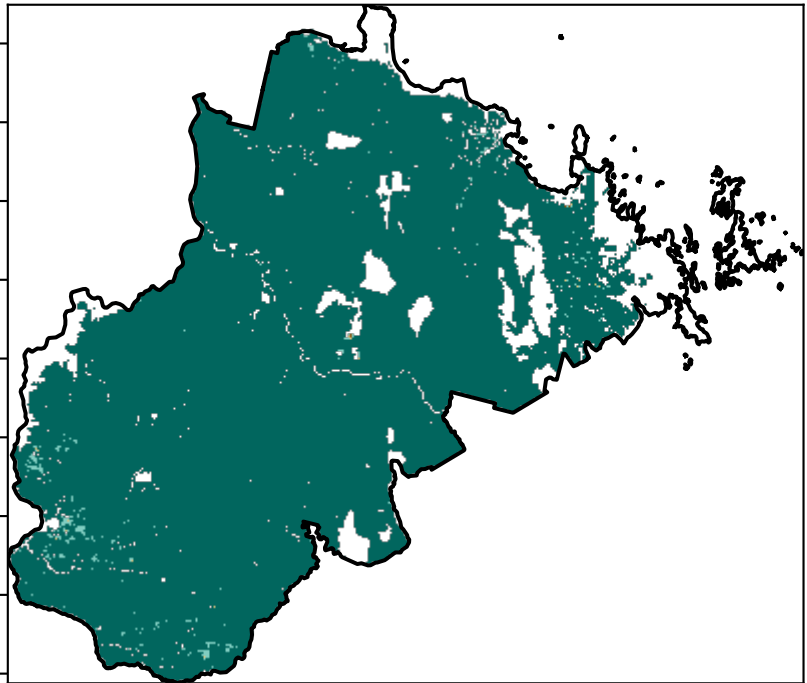


- 1 Agriculture - Grazing - Non forest
- 2 Agriculture - Grazing - Woodland forest
- 3 Agriculture - Grazing - Non-woodland forest
- 4 Agriculture - Grazing - Irrigated
- 5 Agriculture - Cropping - Non-irrigated
- 6 Agriculture - Cropping - Irrigated
- 7 Agriculture - Horticulture - Non-irrigated
- 8 Agriculture - Horticulture - Irrigated

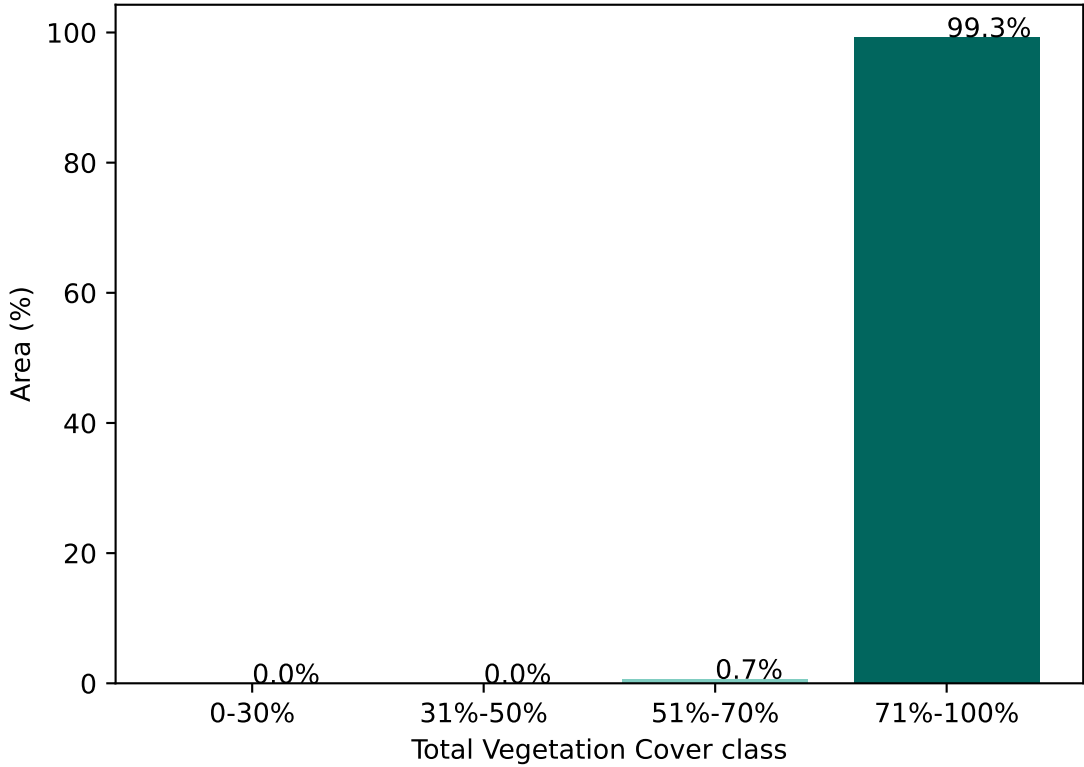
Proportion of each land class in area



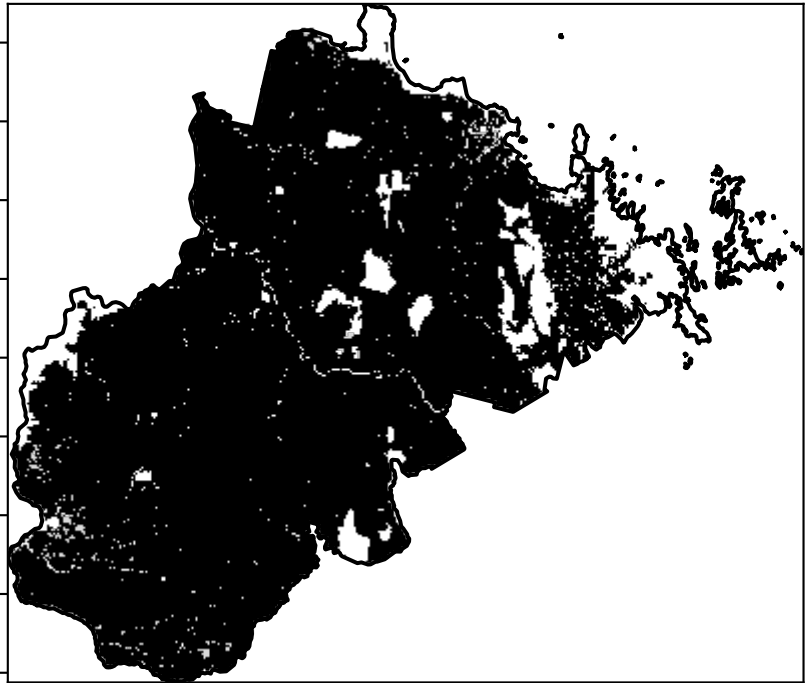
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

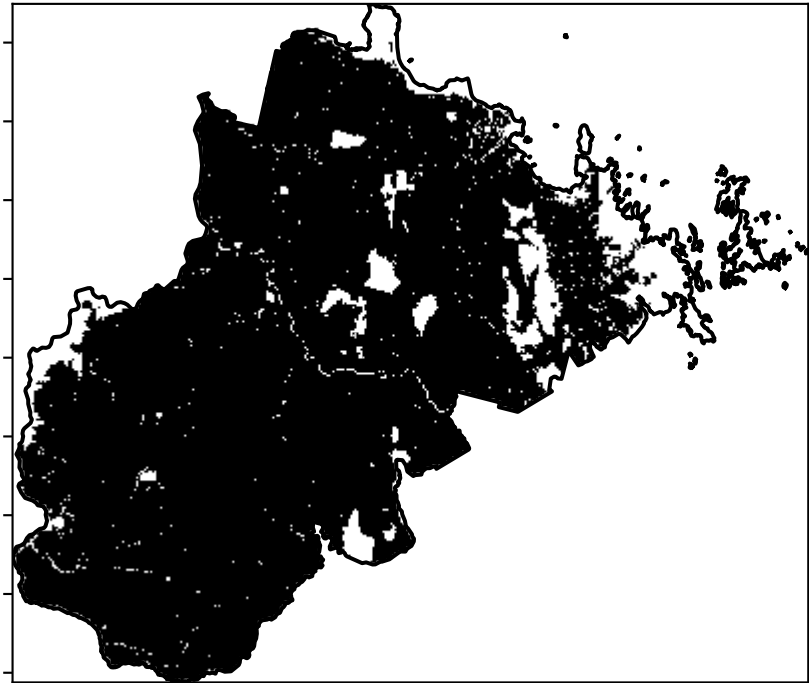


% Area protected from water erosion (>70%)



- Area not protected
0.7% of region
(14,594 ha)
- Area protected
99.3% of region
(2,070,306 ha)

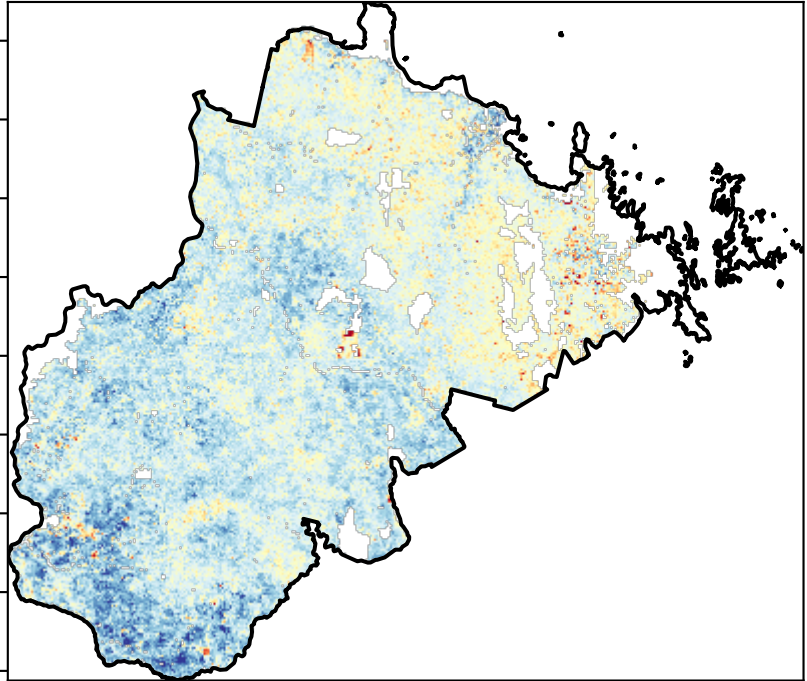
% Area protected from wind erosion (>50%)



- Area not protected
0.0% of region
(0 ha)
- Area protected
100.0% of region
(2,084,900 ha)

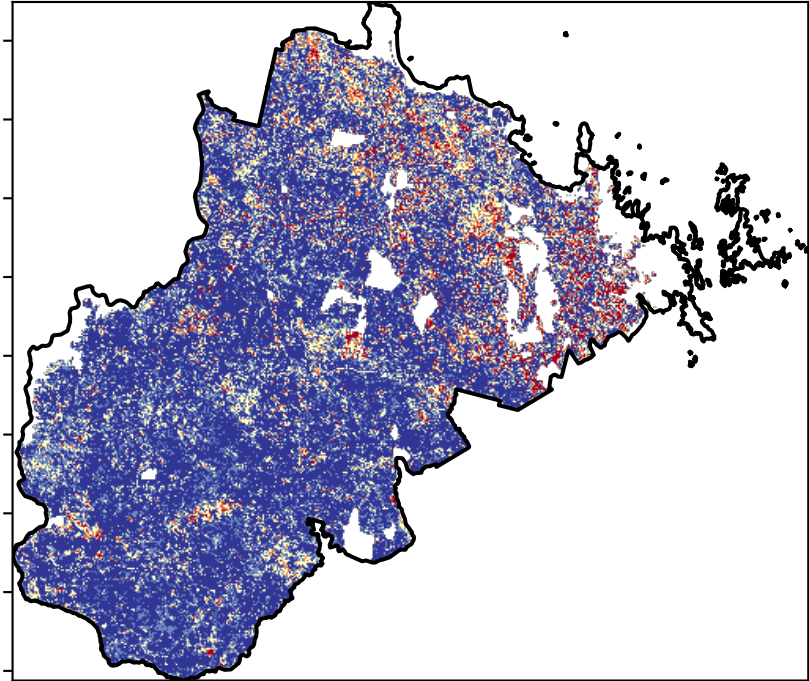
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

Total Vegetation Cover Decile [%]



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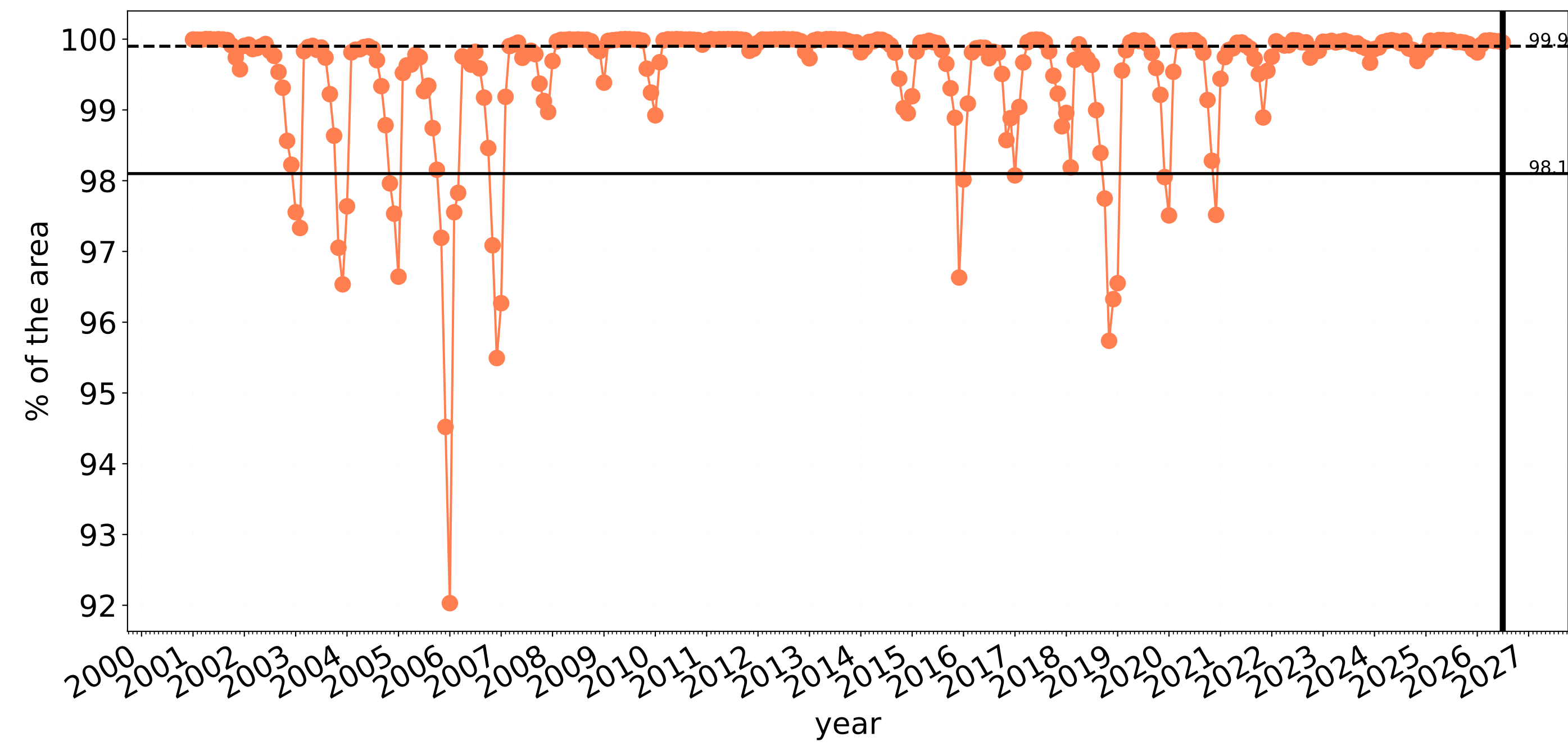


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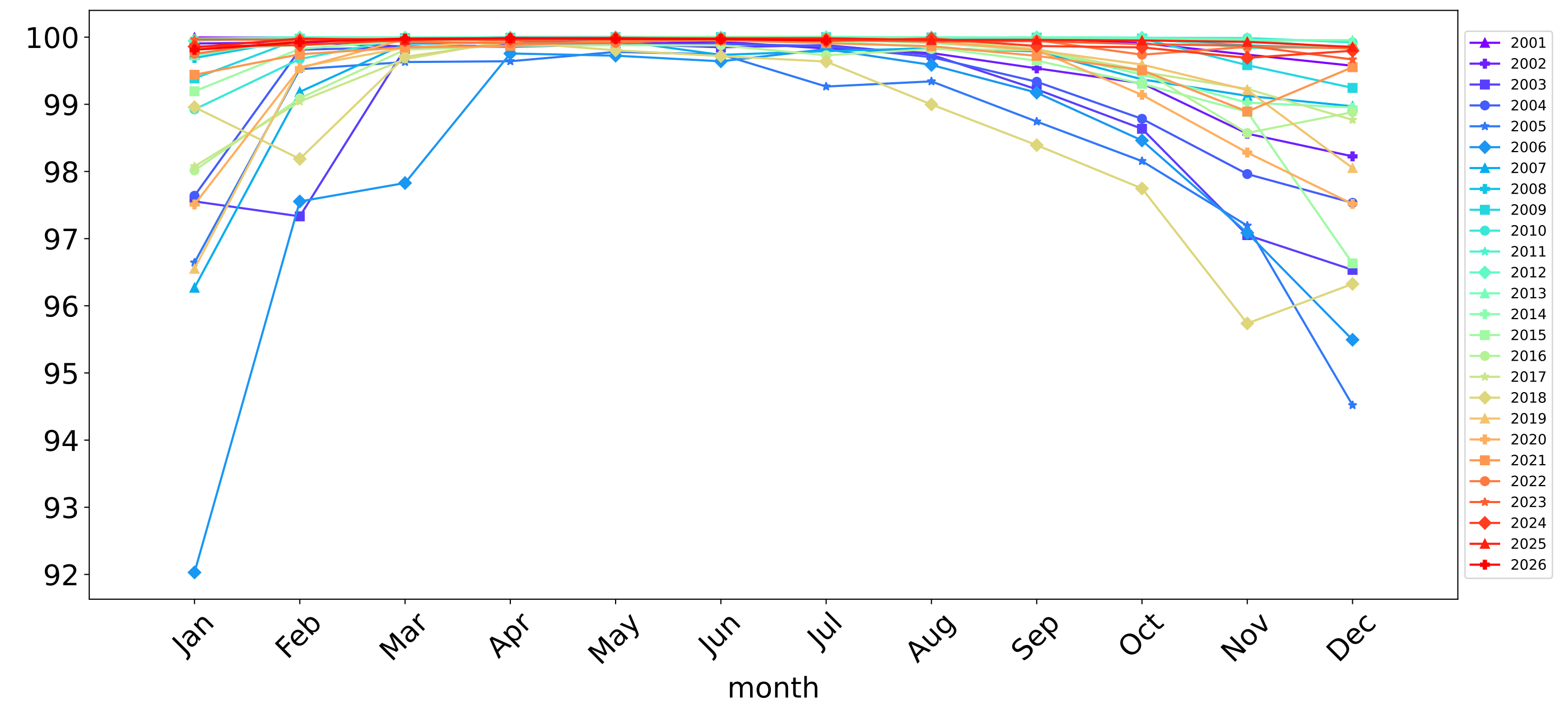


Agriculture timeseries

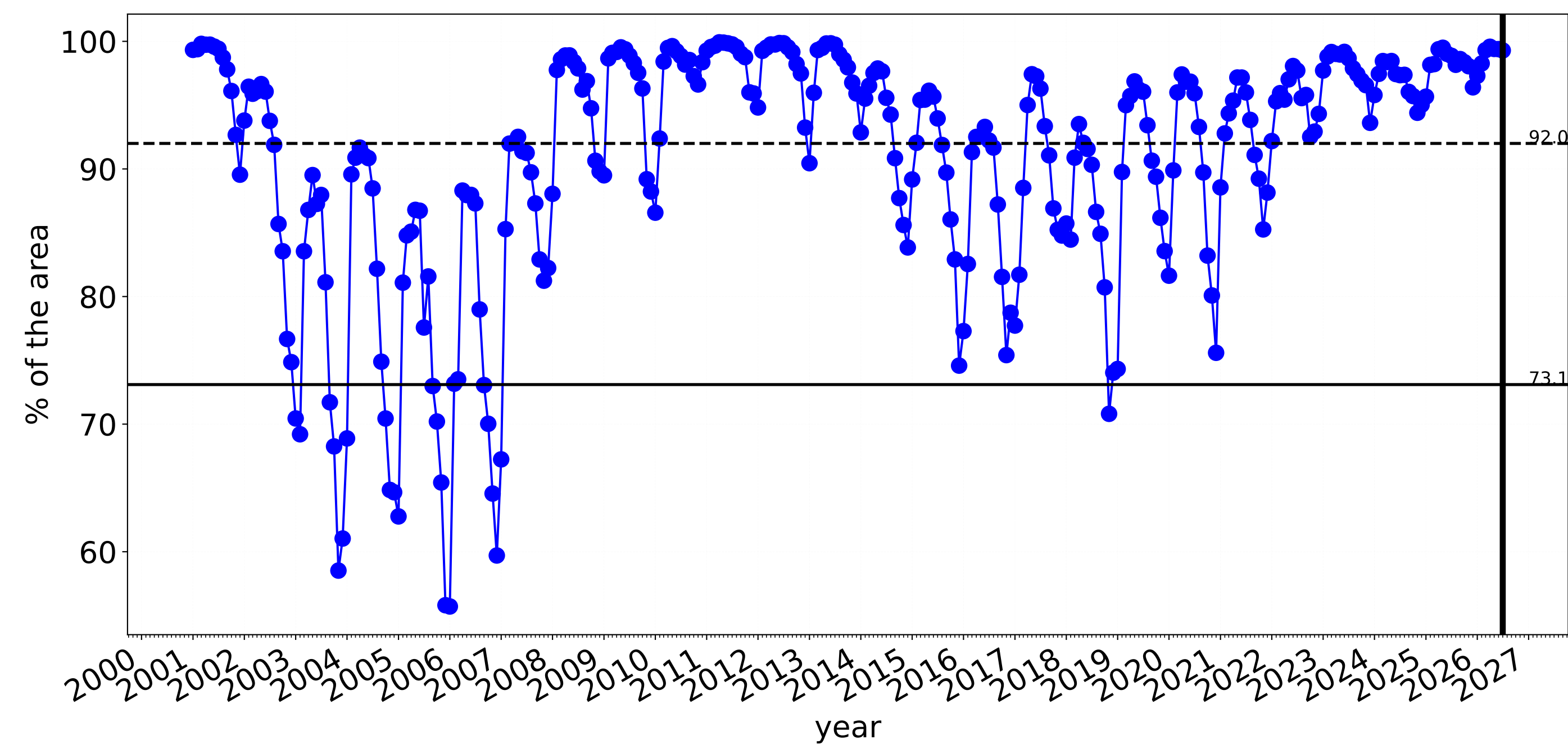
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



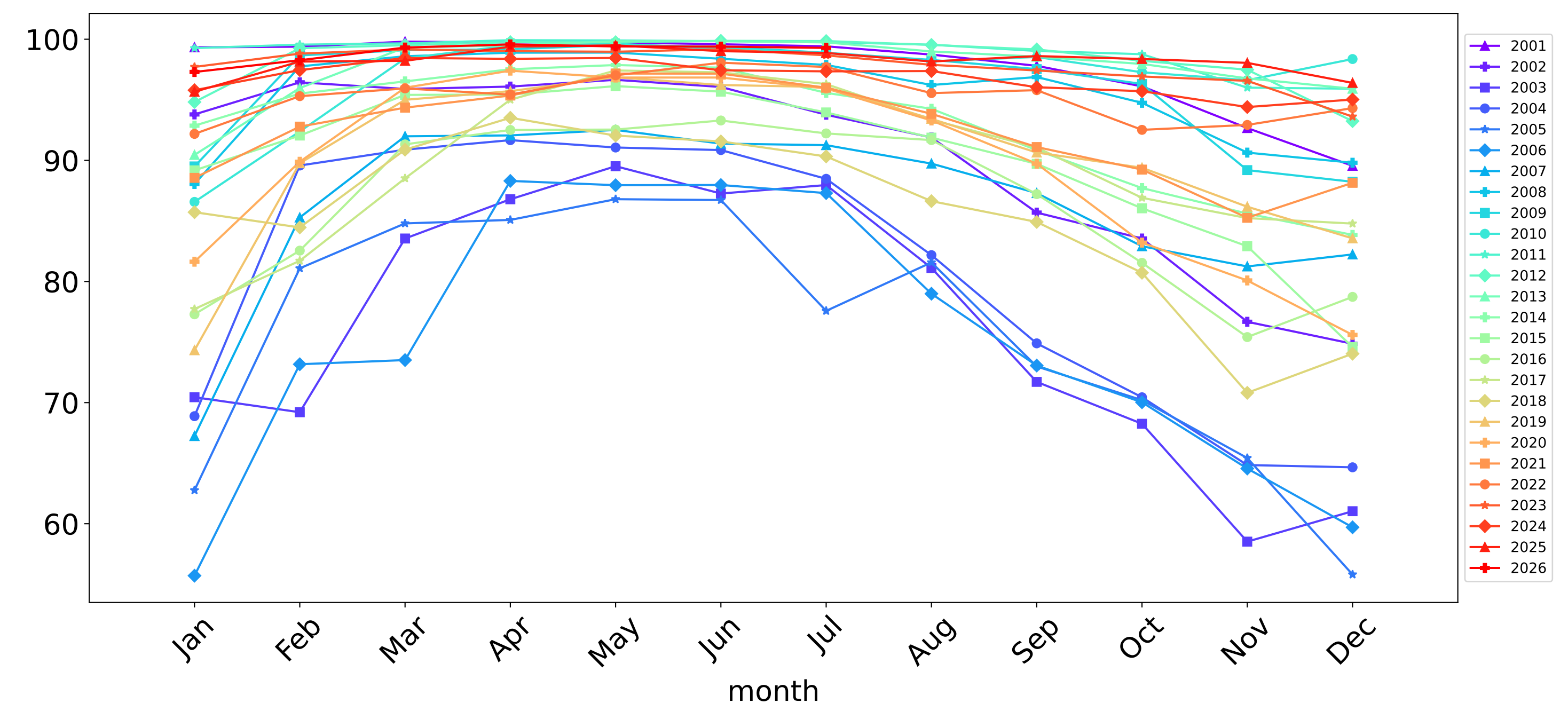
Wind erosion historical monthly area protected (Total Veg Cov >50%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



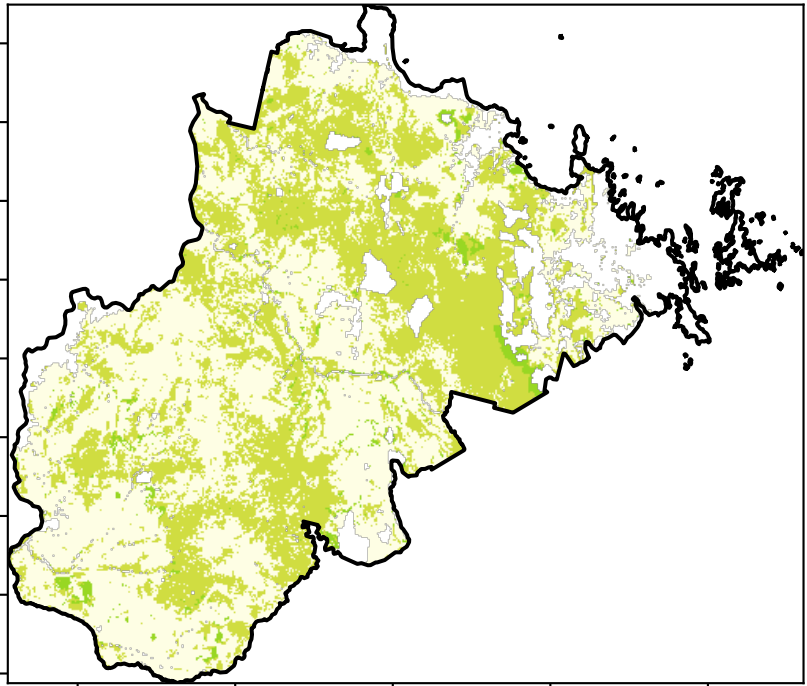
Water erosion historical monthly area protected (Total Veg Cov>70%)



Grazing

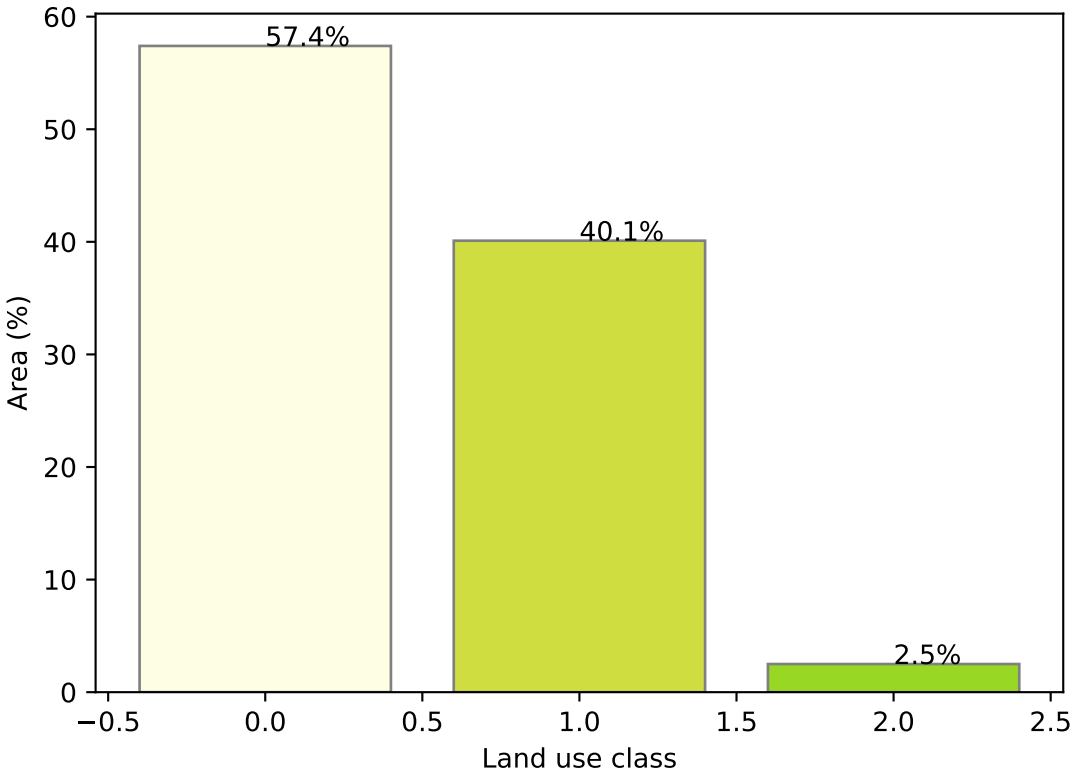
Land use and forest cover

Catchment Scale Land Use and Forests of Australia (2018)
Derived from Catchment Scale Land Use of Australia (2018) and Forests of Australia (2018)

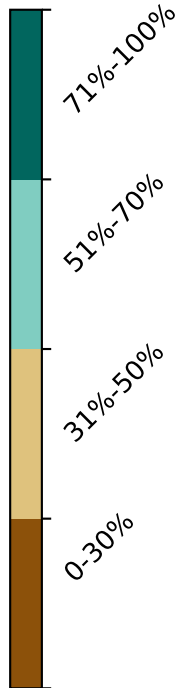
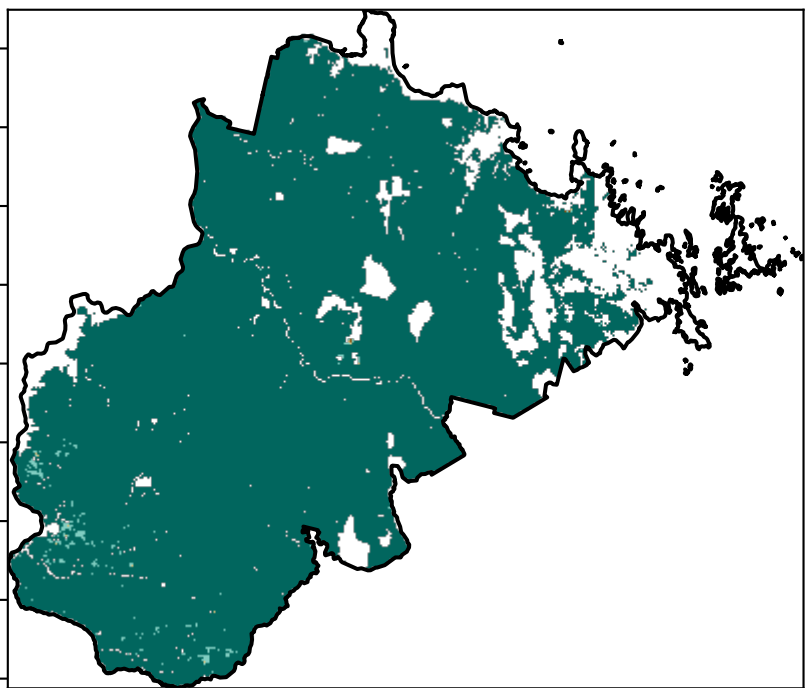


- 1 Agriculture - Grazing - Non forest
- 2 Agriculture - Grazing - Woodland forest
- 3 Agriculture - Grazing - Non-woodland forest

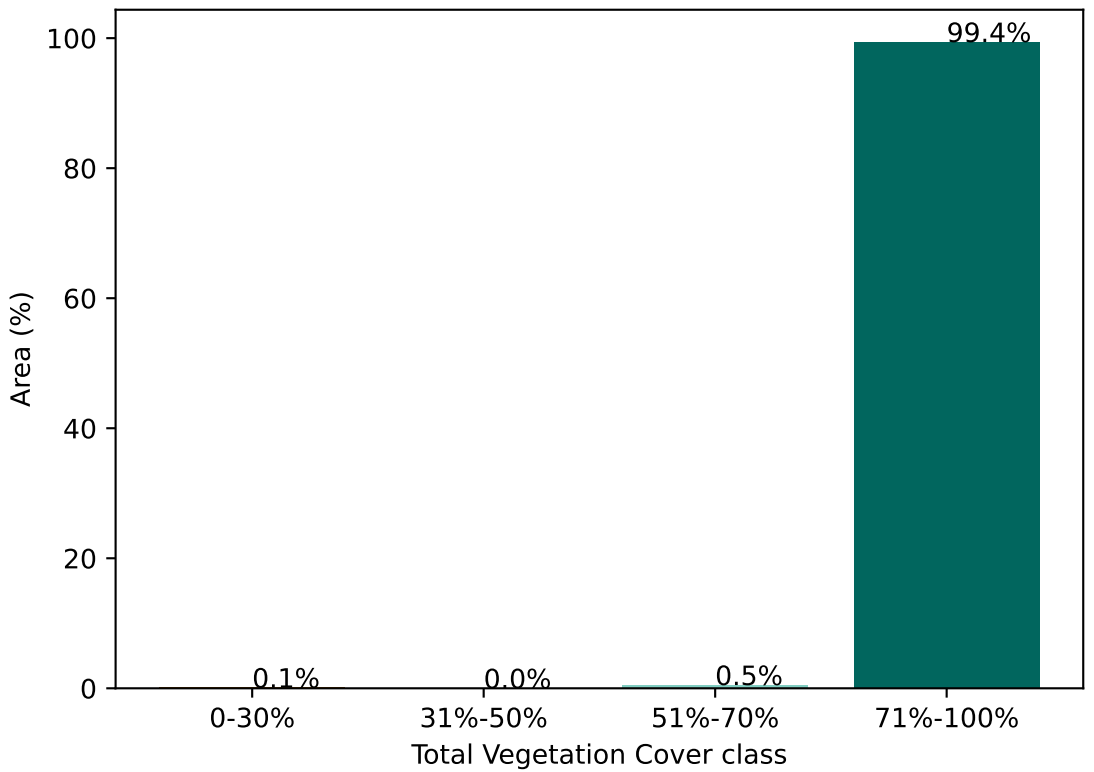
Proportion of each land class in area



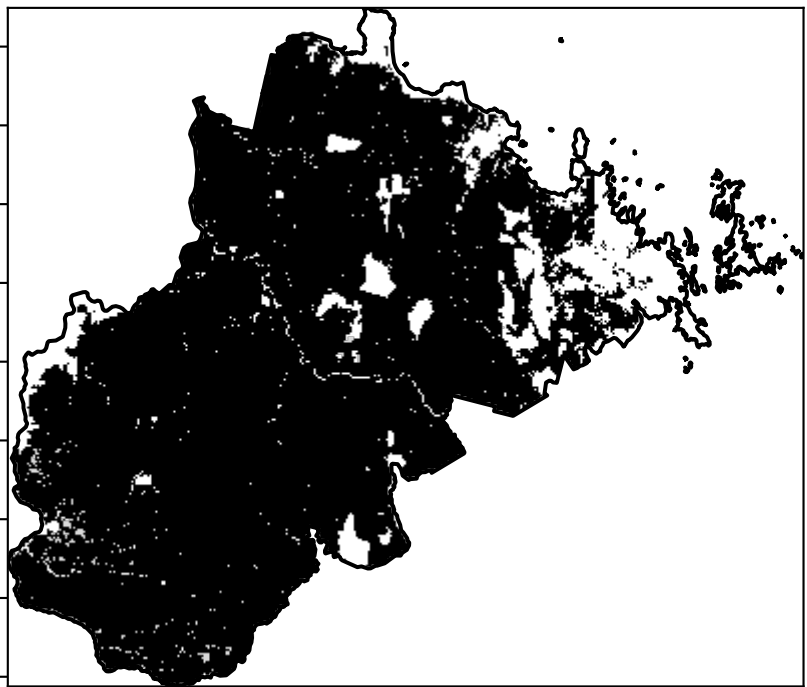
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

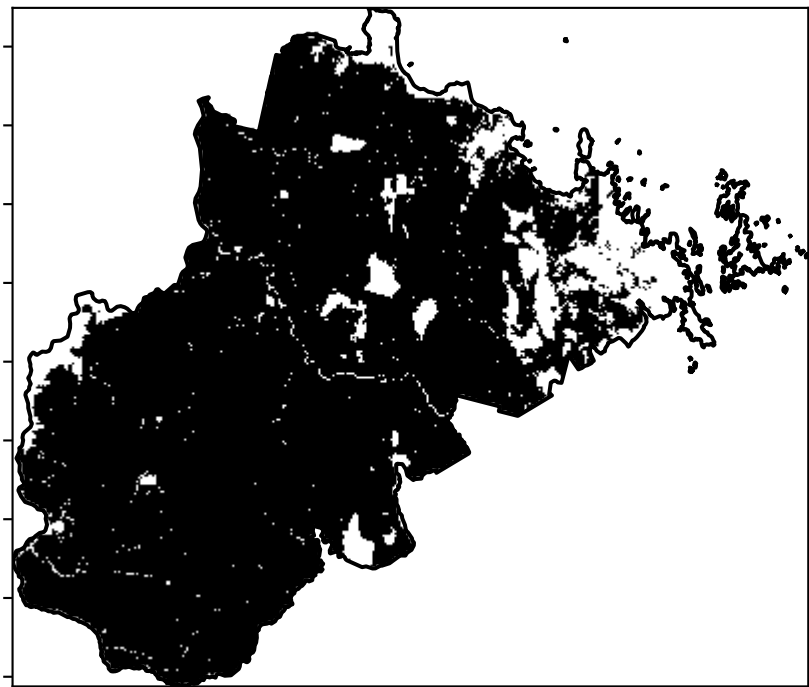


% Area protected from water erosion (>70%)



- Area not protected 0.6% of region (12,255 ha)
- Area protected 99.4% of region (2,030,220 ha)

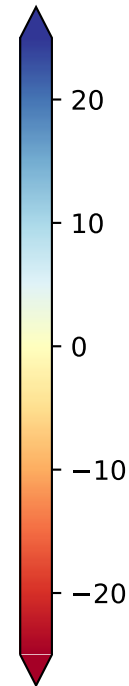
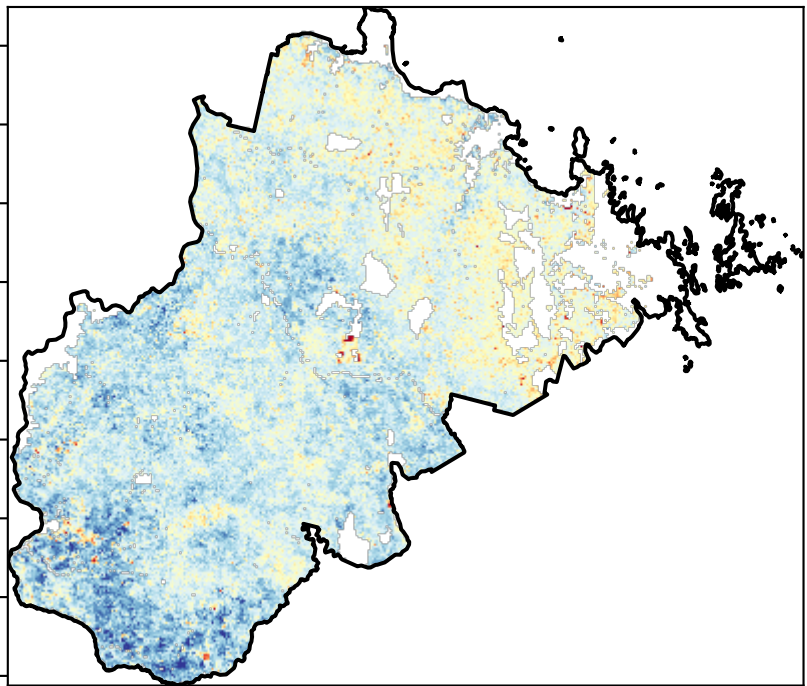
% Area protected from wind erosion (>50%)



- Area not protected 0.0% of region (0 ha)
- Area protected 100.0% of region (2,042,475 ha)

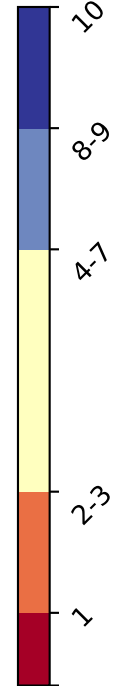
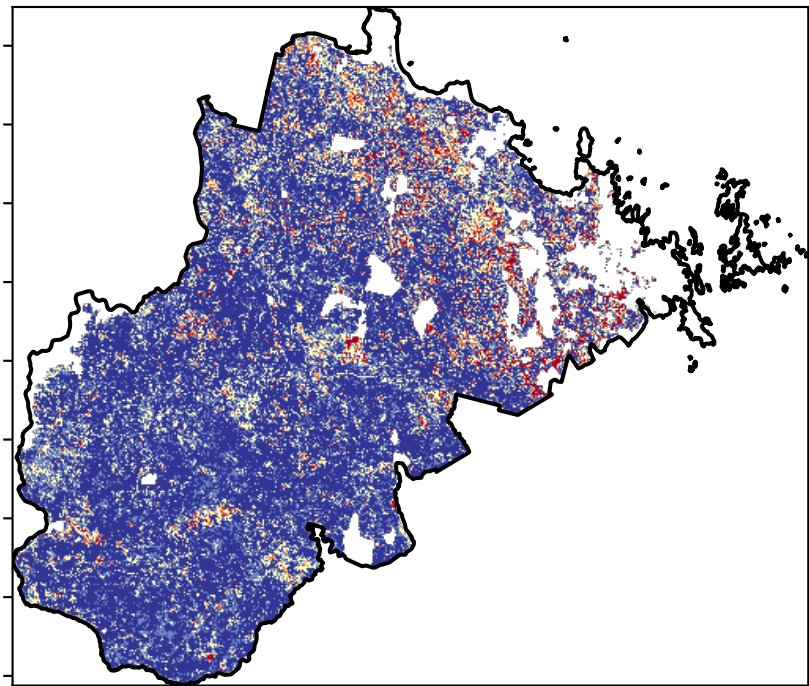
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

Total Vegetation Cover Decile [%]



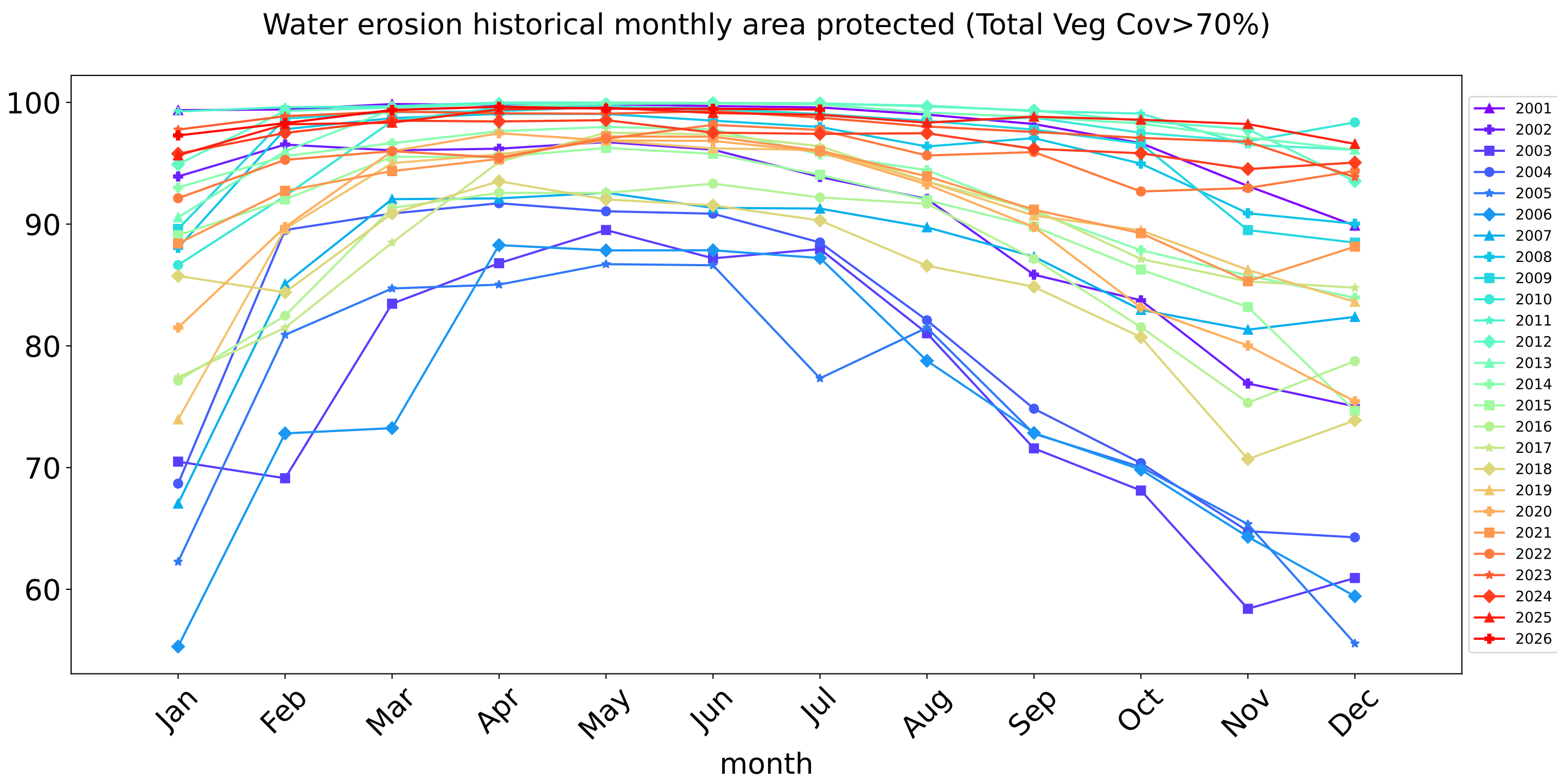
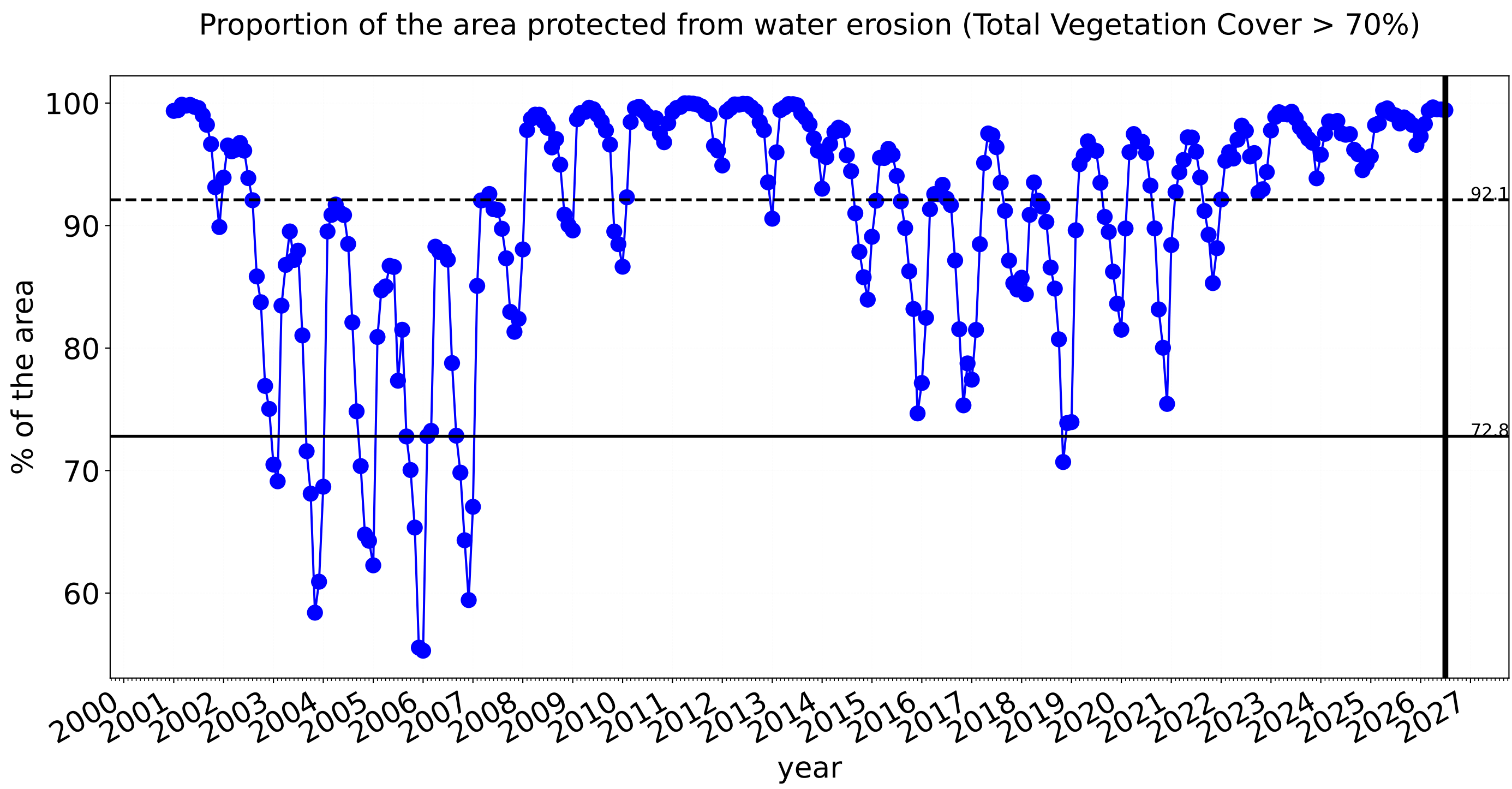
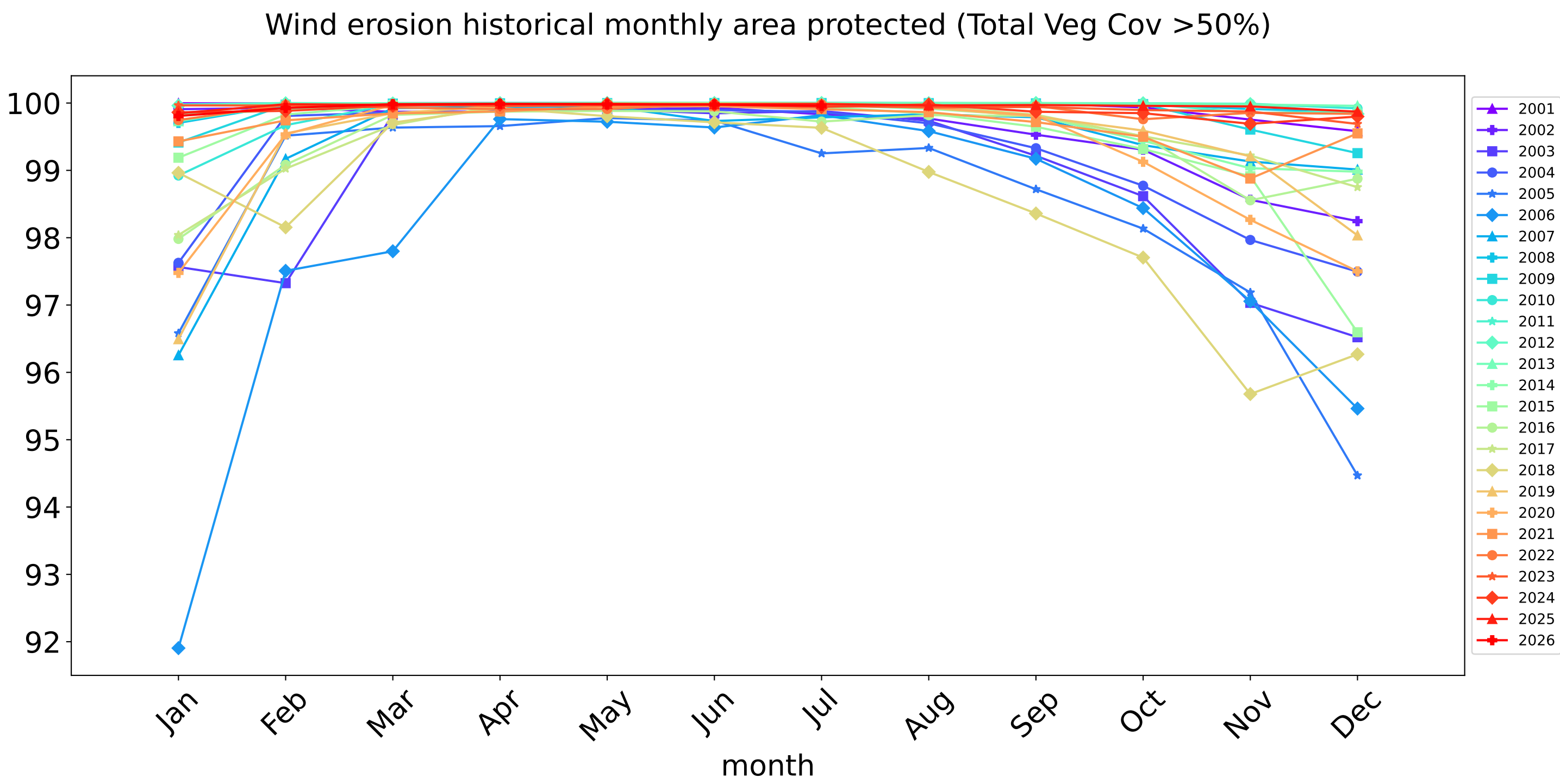
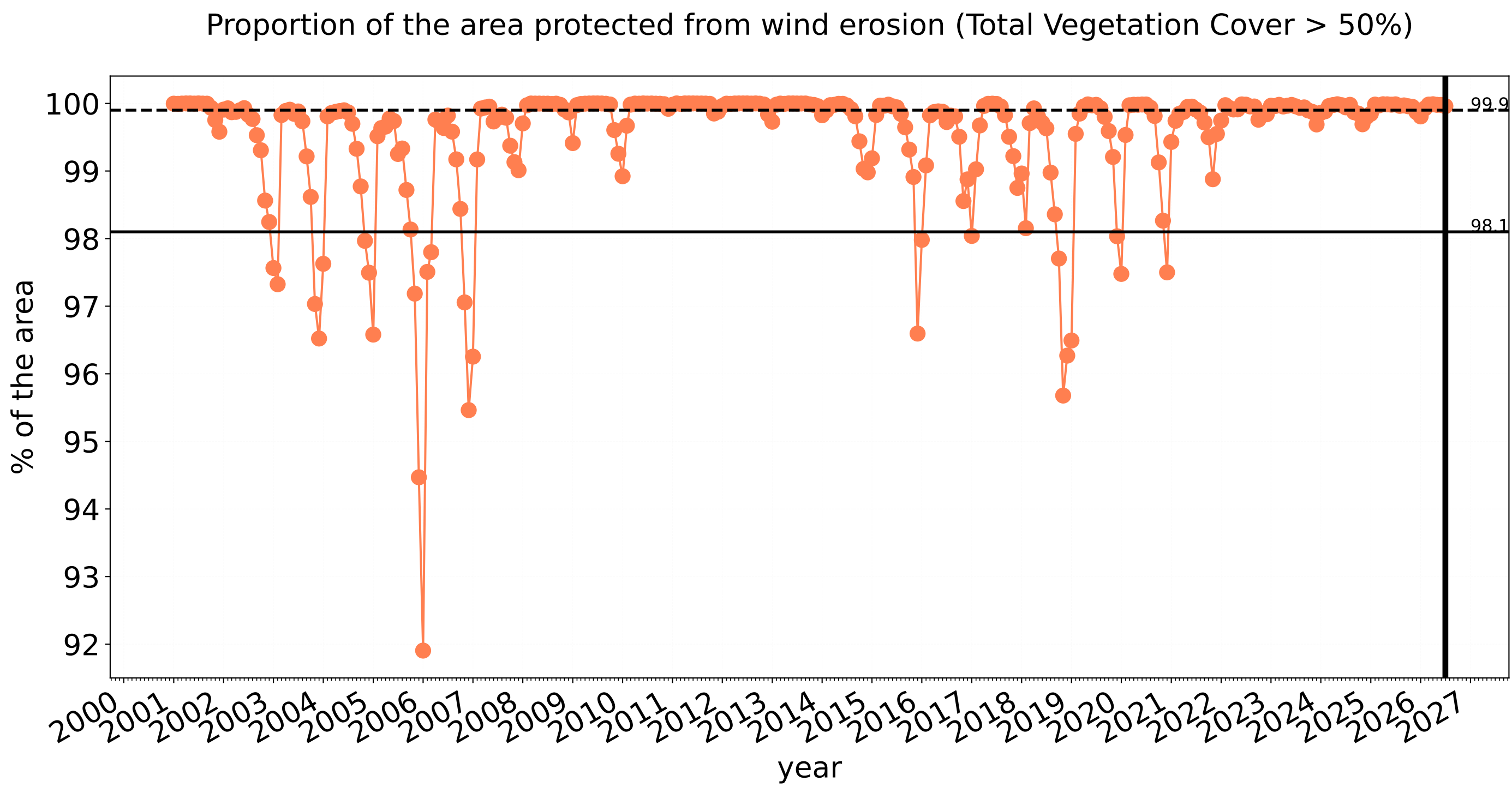
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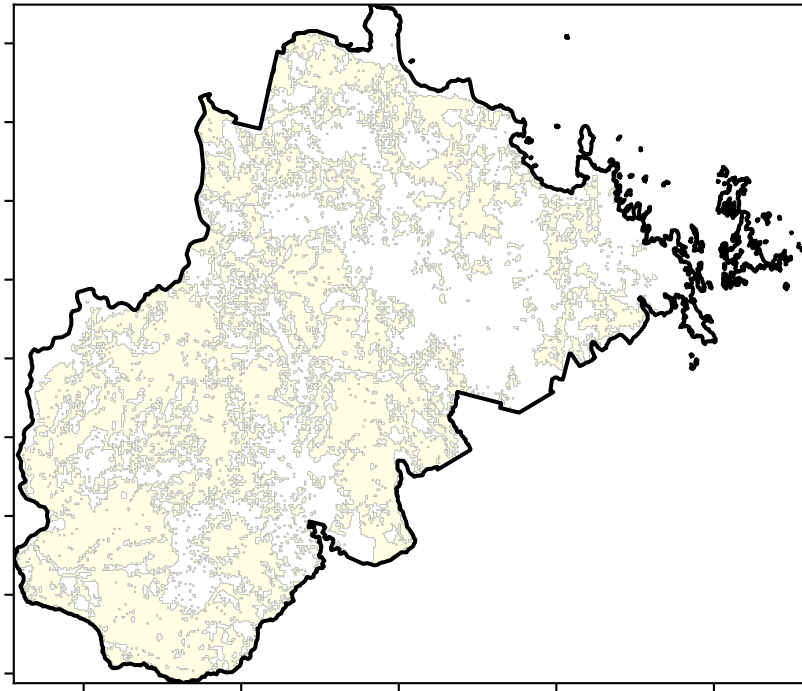
Grazing timeseries



Grazing non forest

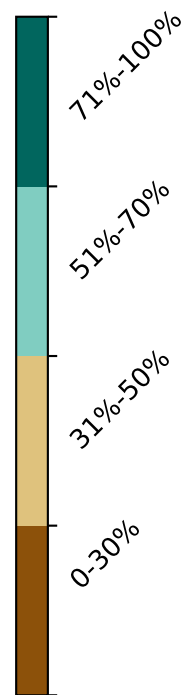
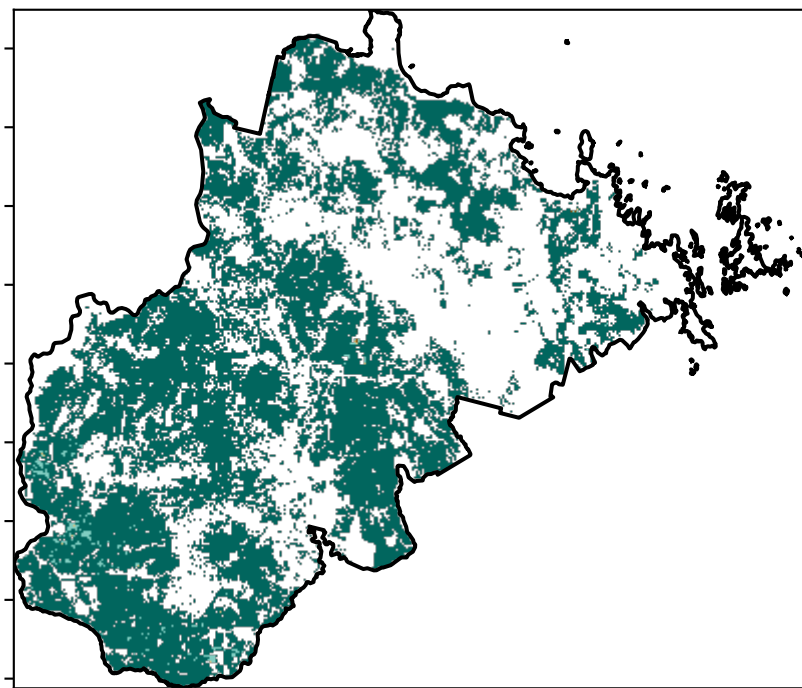
Land use and forest cover

Catchment Scale
Land Use and Forests
of Australia (2018)
Derived from
Catchment Scale Land
Use of Australia
(2018) and Forests
of Australia (2018)

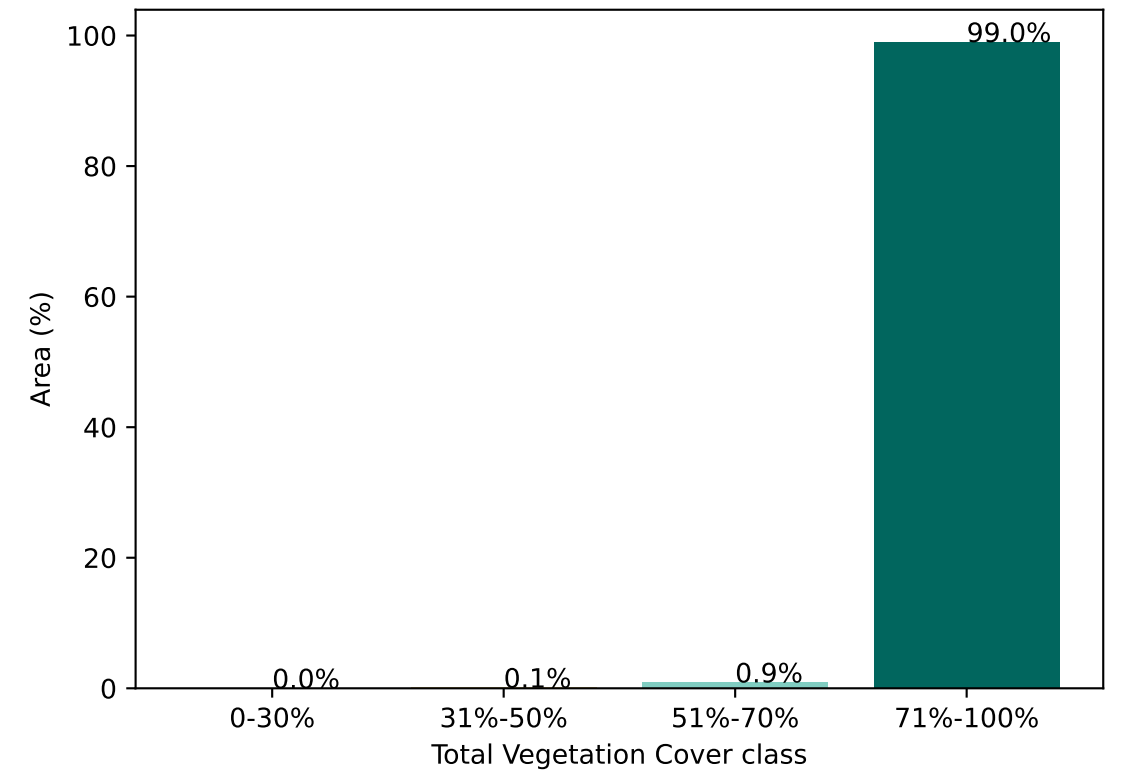


1 Agriculture - Grazing - Non forest

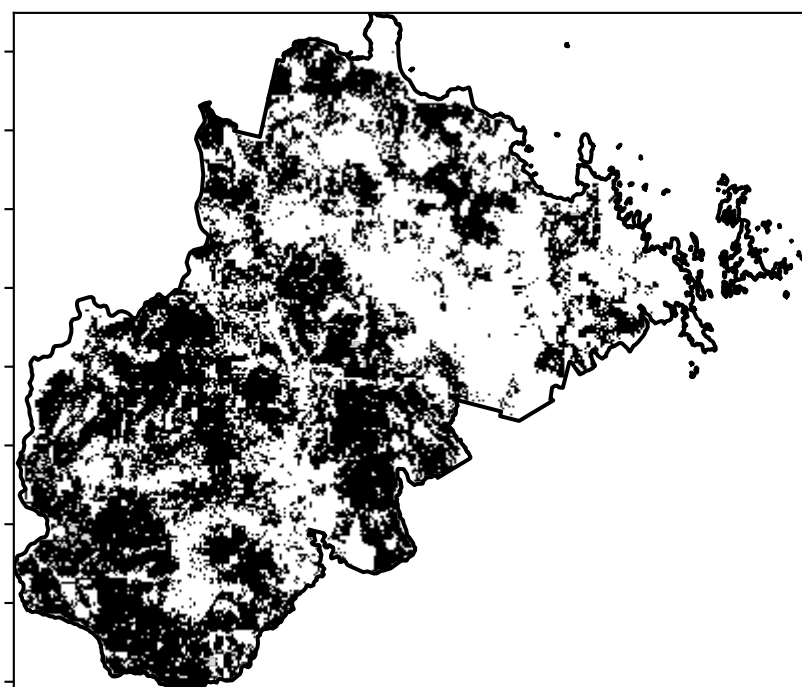
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

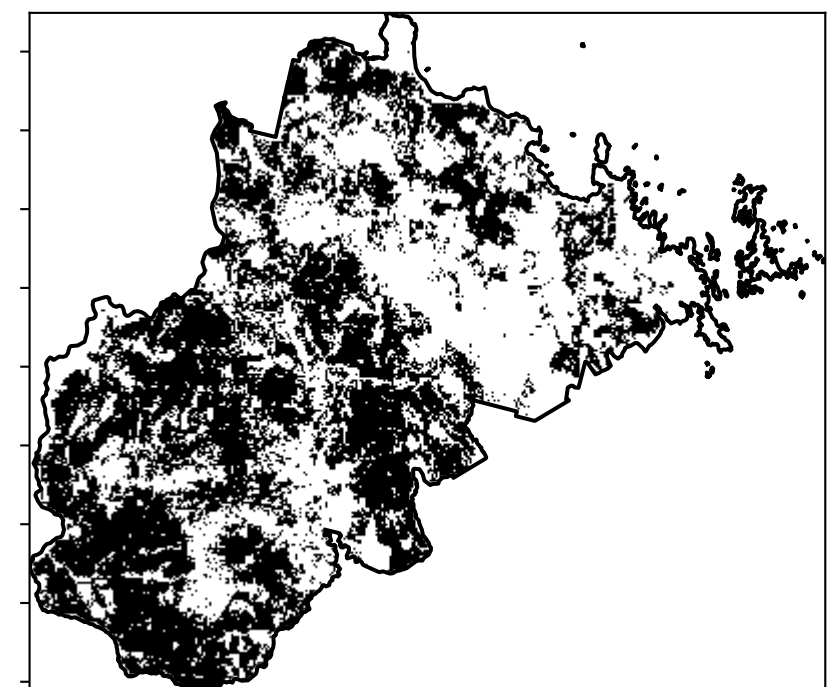


% Area protected from water erosion (>70%)



Area not protected
1.0% of
region
(11,718
ha)
Area protected
99.0% of
region
(1,160,082
ha)

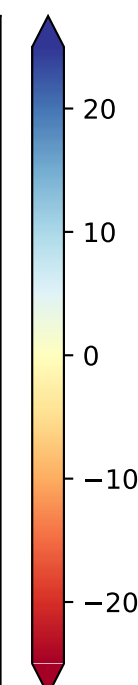
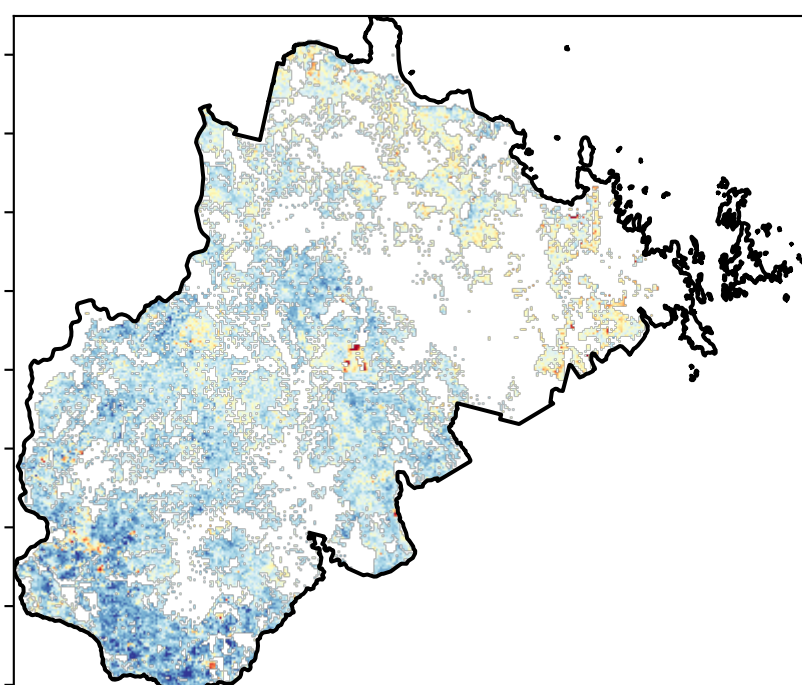
% Area protected from wind erosion (>50%)



Area not protected
0.0% of
region (0
ha)
Area protected
100.0% of
region
(1,171,800
ha)

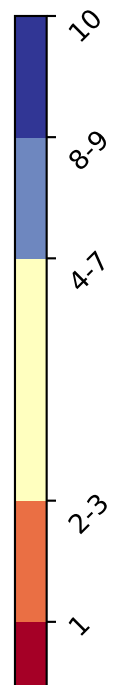
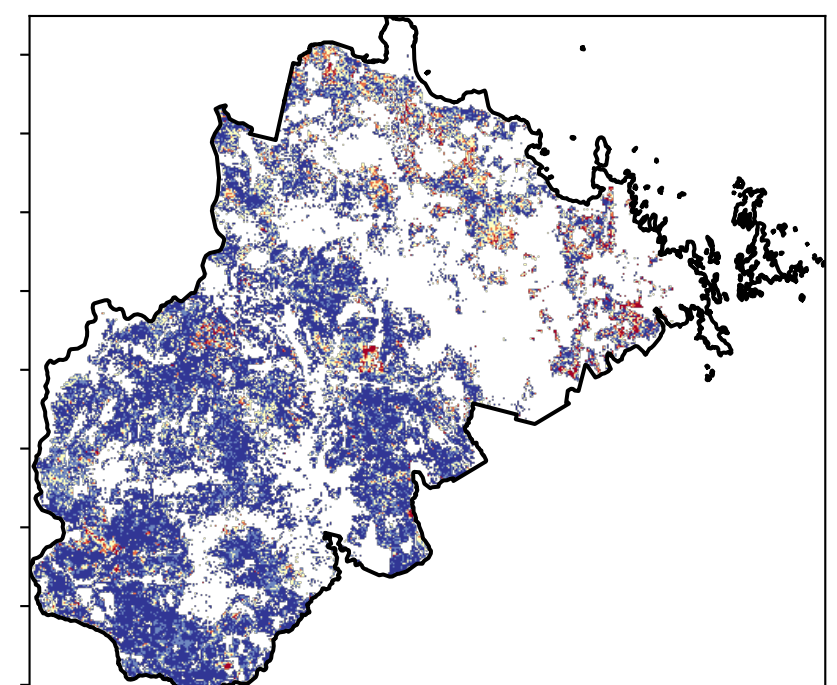
Total Vegetation Cover Anomaly [%]

Anomaly show how
many percentage
points each
pixel is from
the mean. That
is, red pixels
are about 20%
lower than the
mean of that
pixel. The mean
is only for the
month of the map
using baseline
from 2001 to
2019.



Deciles show where the
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That is, red pixels are
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the map using baseline
from 2001 to 2019.

Total Vegetation Cover Decile [%]



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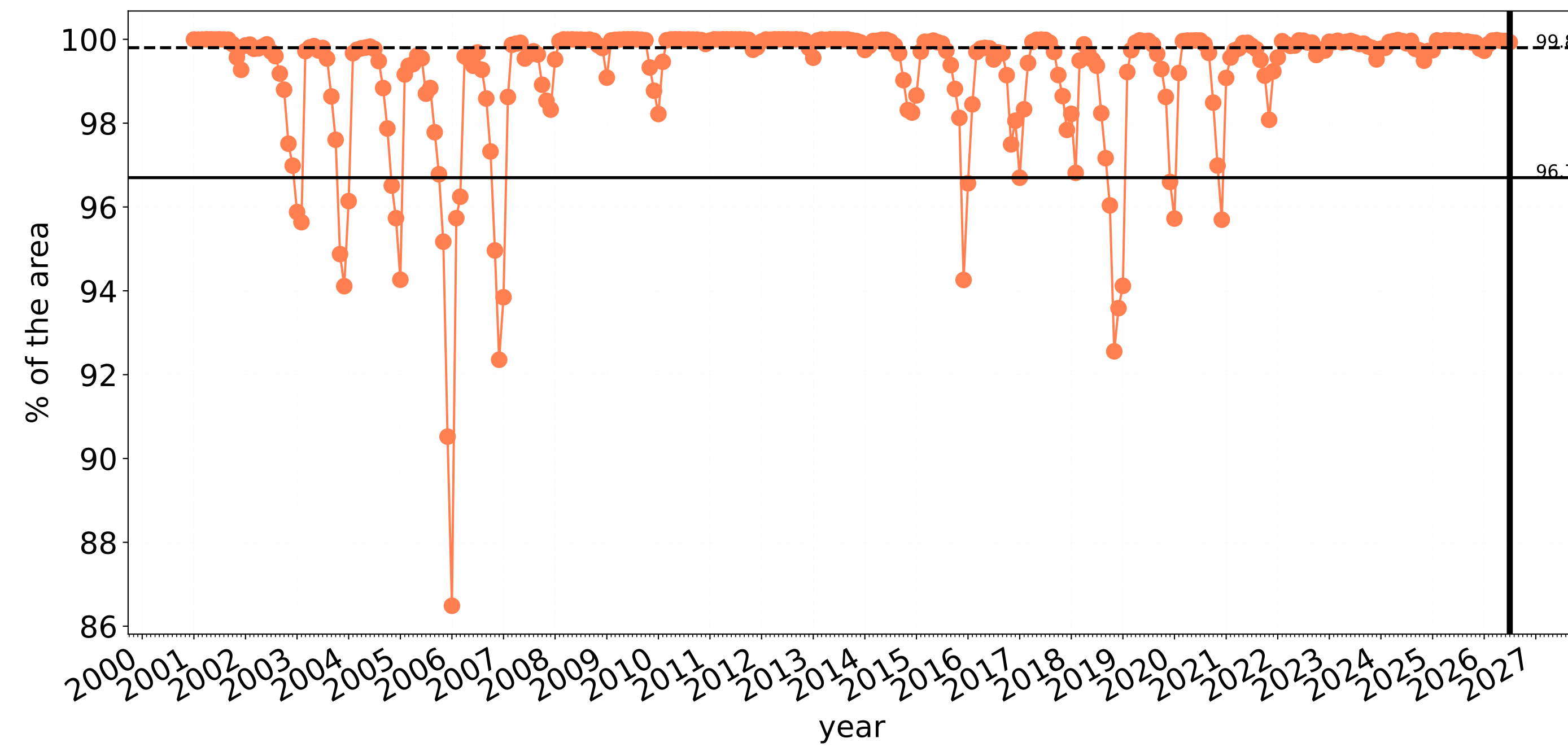


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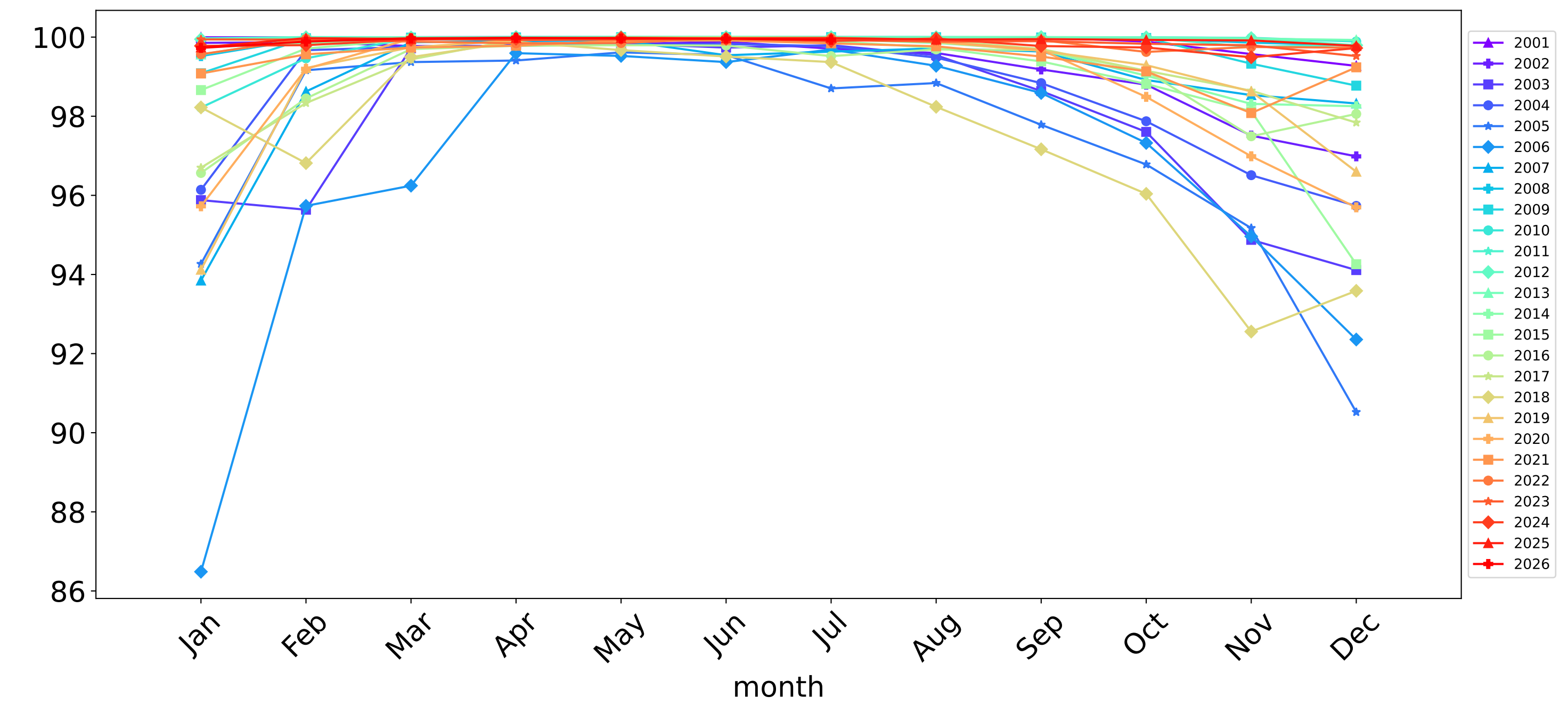


Grazing non forest timeseries

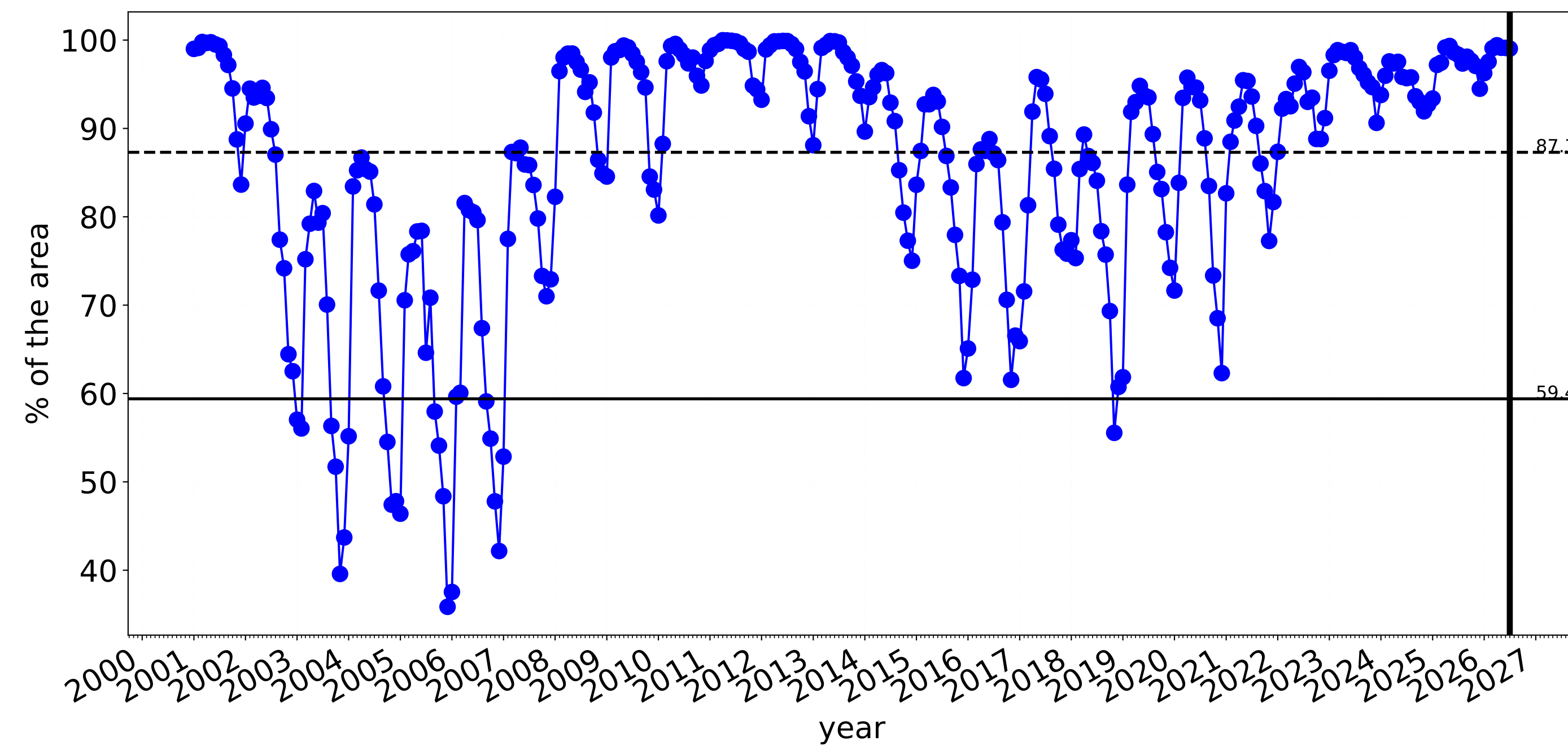
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



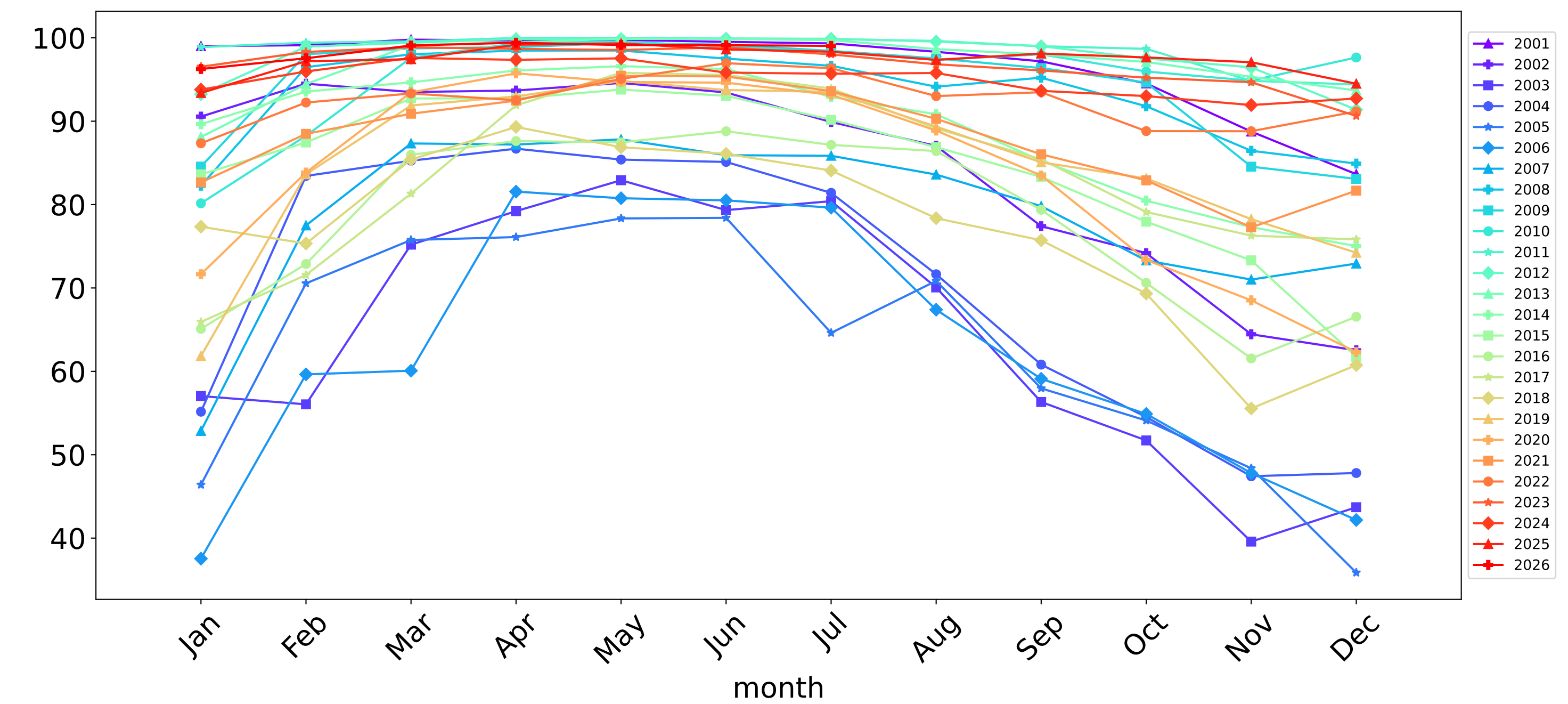
Wind erosion historical monthly area protected (Total Veg Cov >50%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



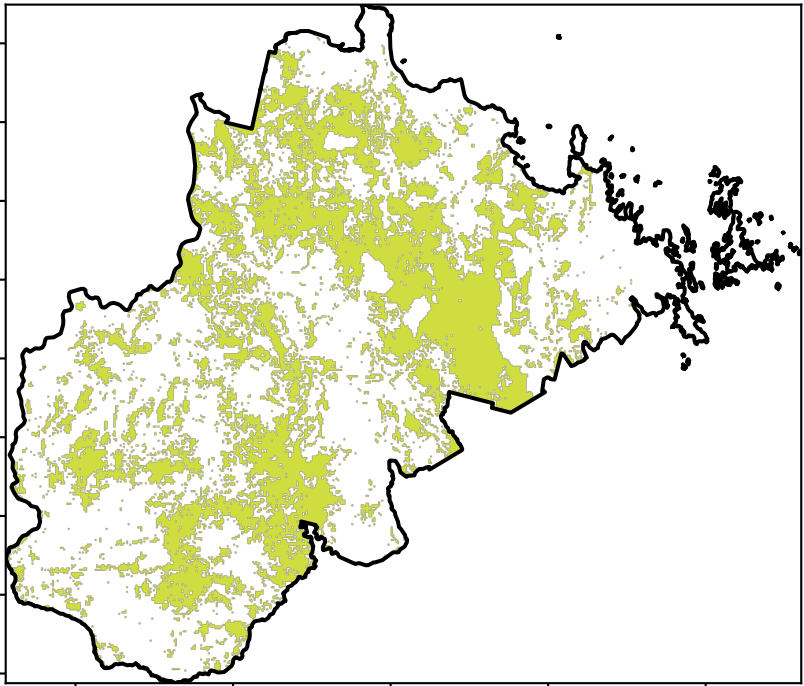
Water erosion historical monthly area protected (Total Veg Cov>70%)



Grazing Woodland forest

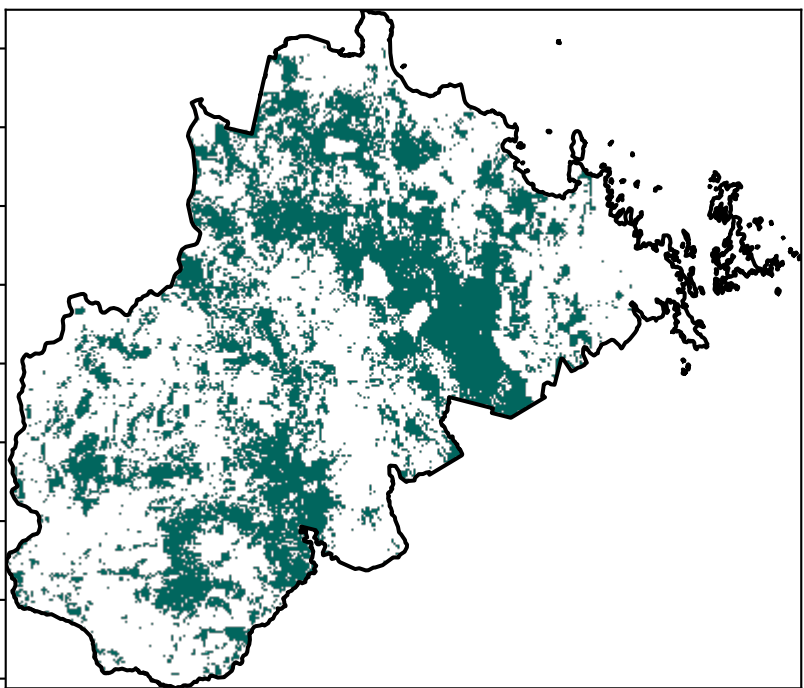
Land use and forest cover

Catchment Scale
Land Use and Forests
of Australia (2018)
Derived from
Catchment Scale Land
Use of Australia
(2018) and Forests
of Australia (2018)

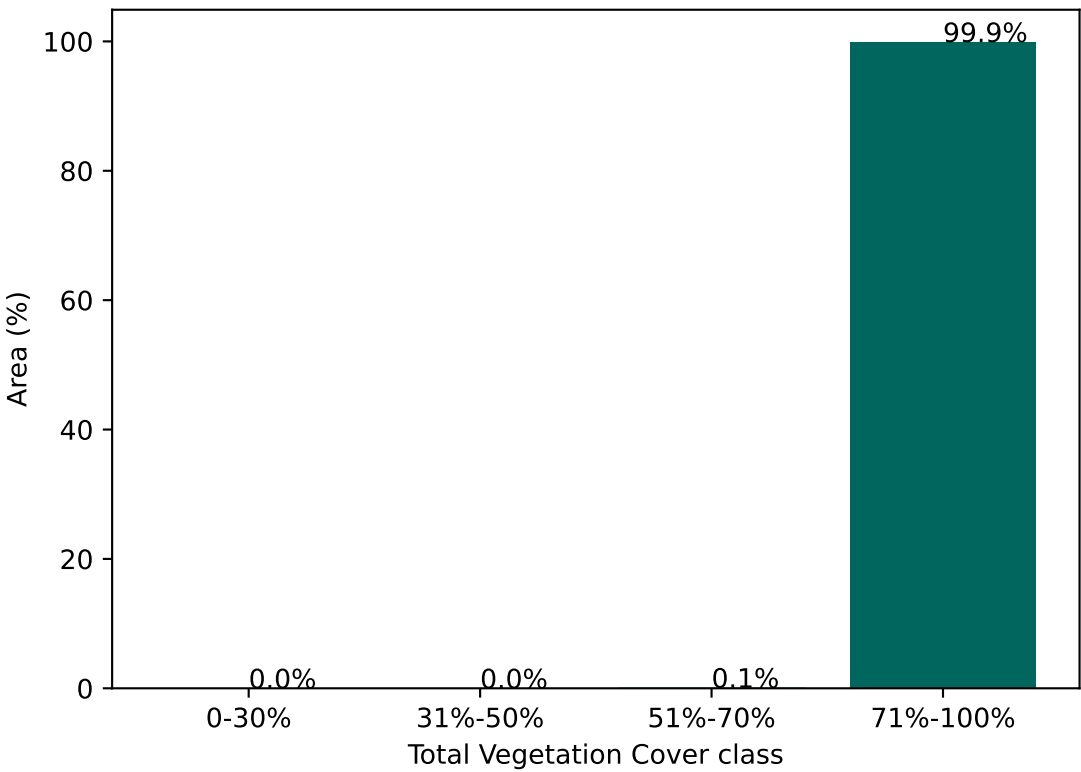


1 Agriculture - Grazing - Woodland forest

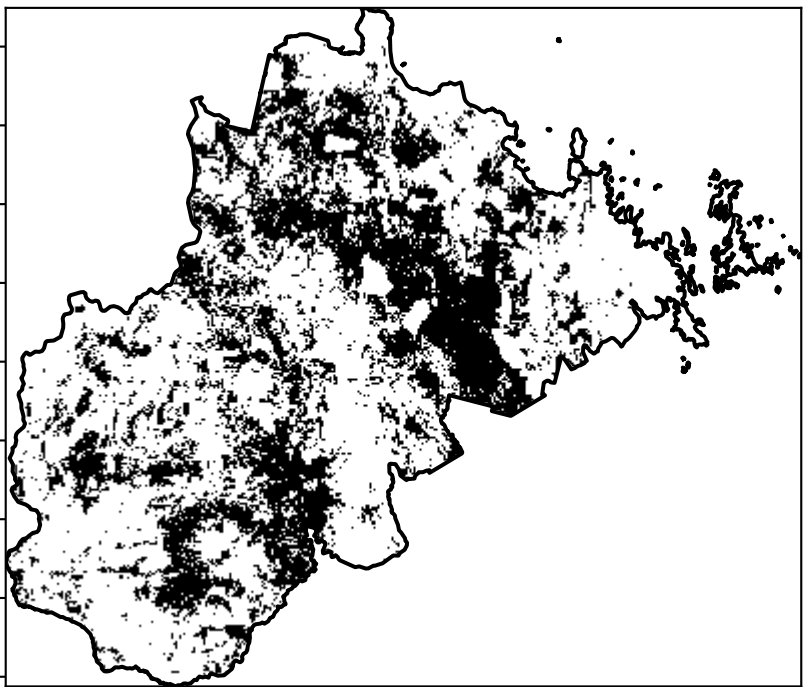
Total Vegetation Cover [%]



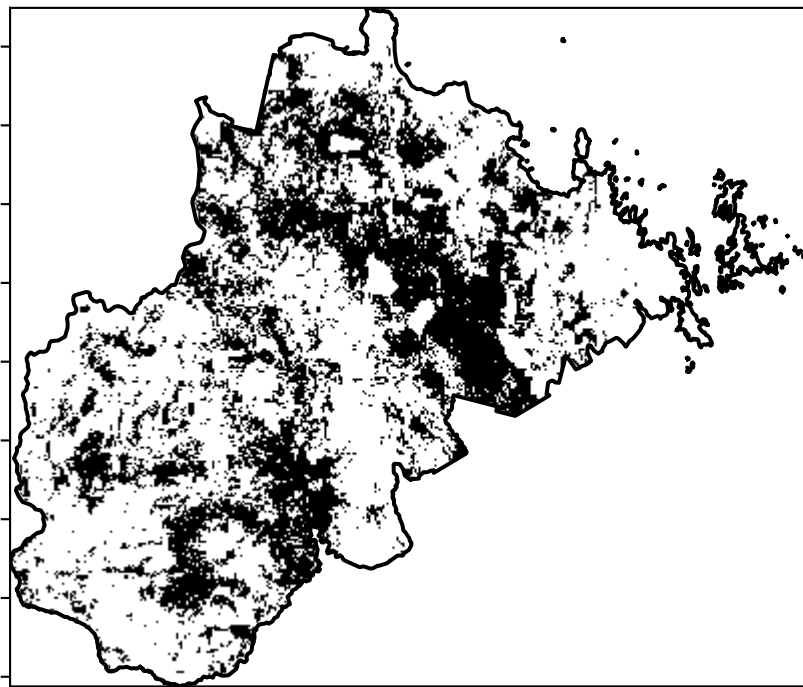
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

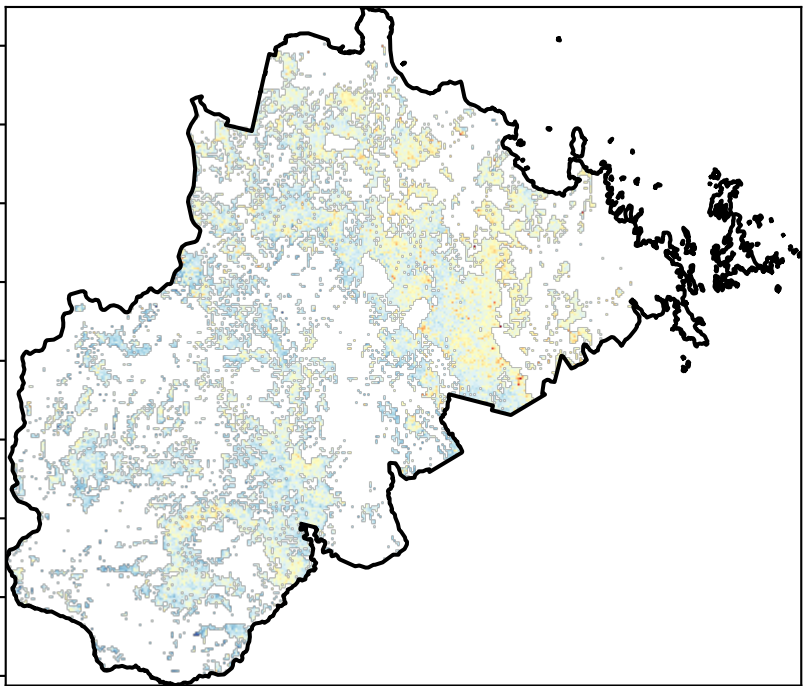


% Area protected from wind erosion (>50%)



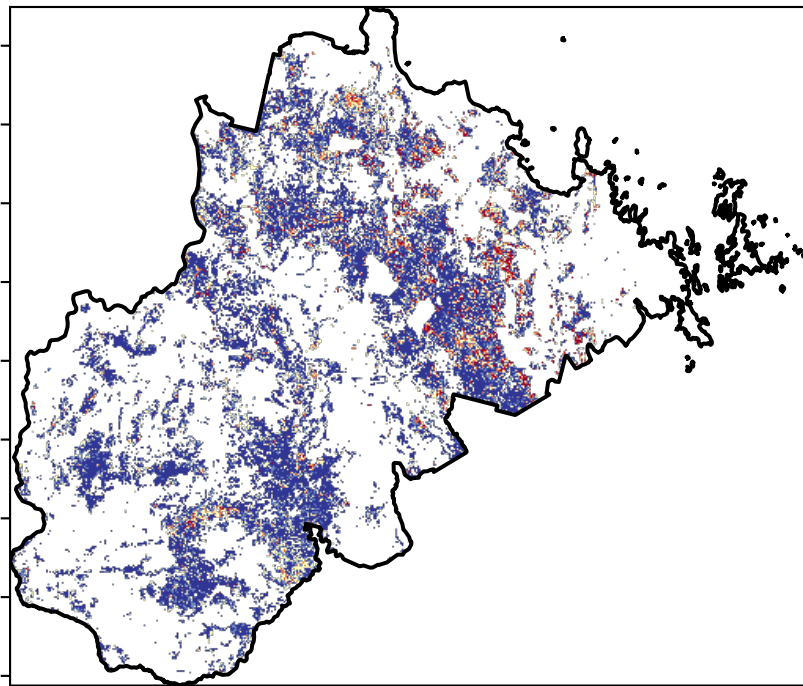
Total Vegetation Cover Anomaly [%]

Anomaly show how
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Total Vegetation Cover Decile [%]



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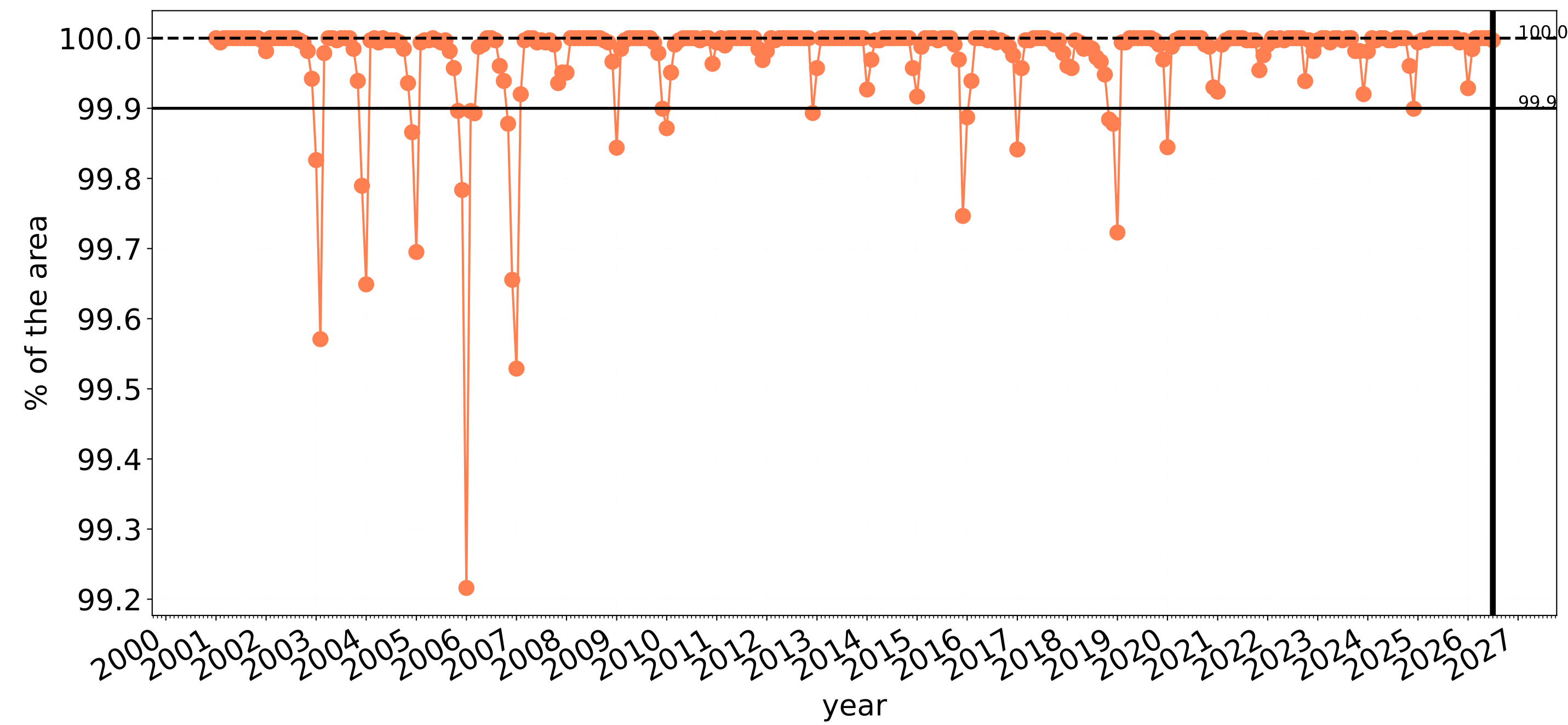


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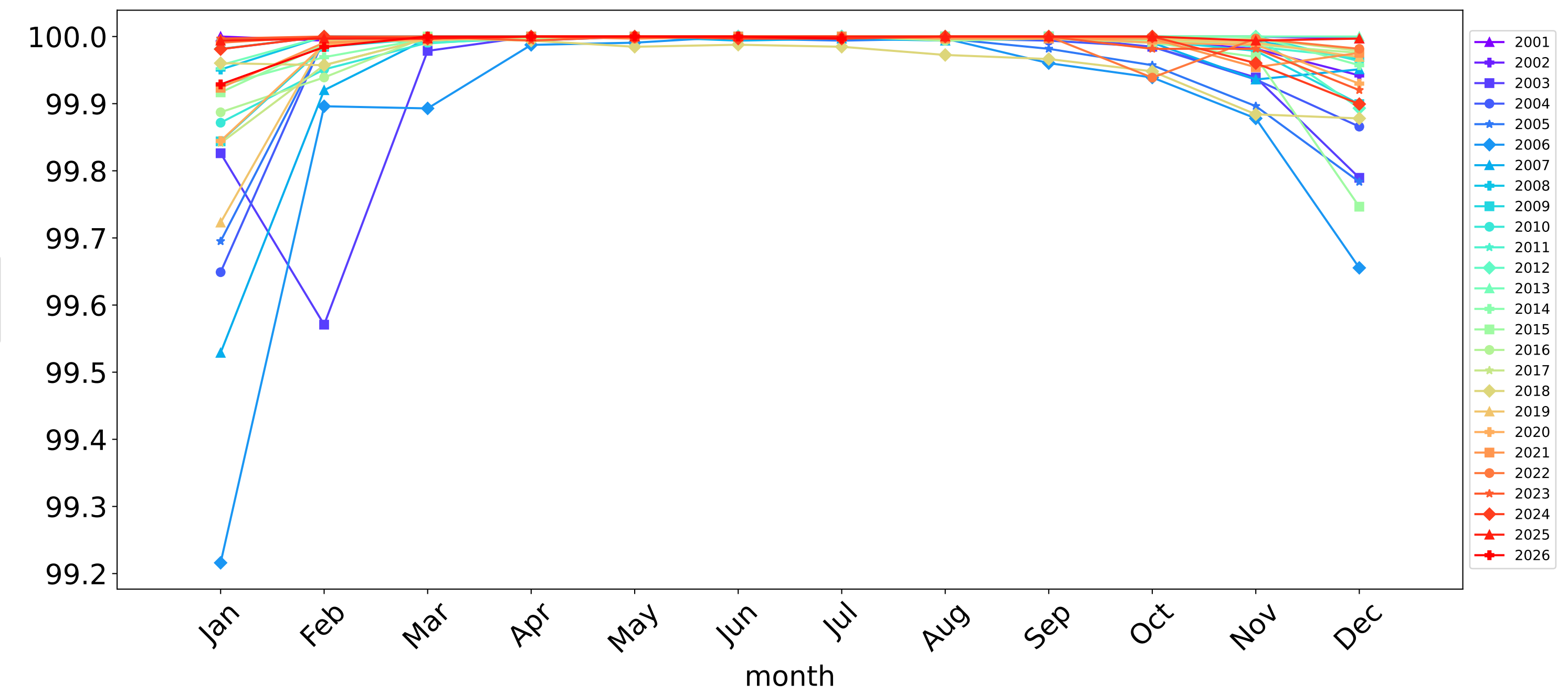


Grazing Woodland forest timeseries

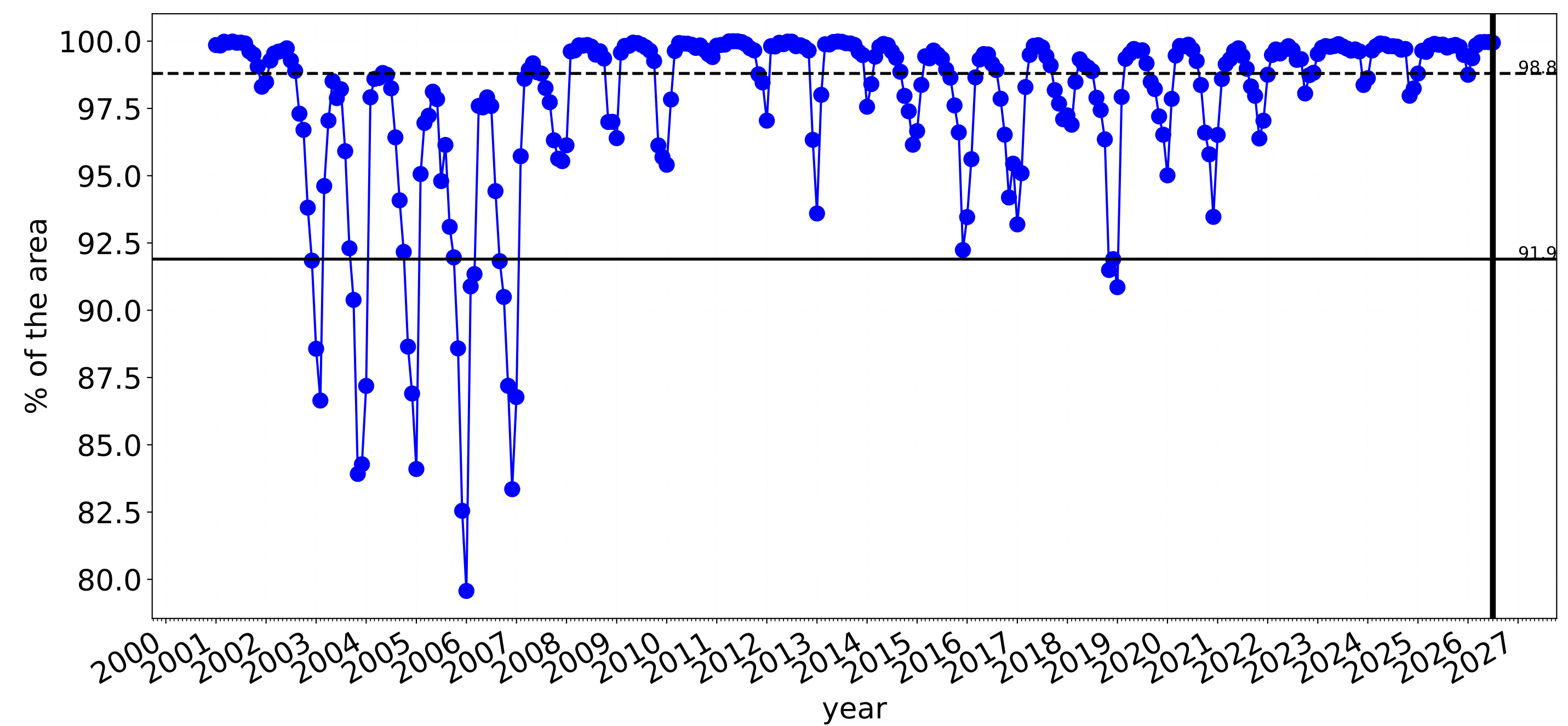
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



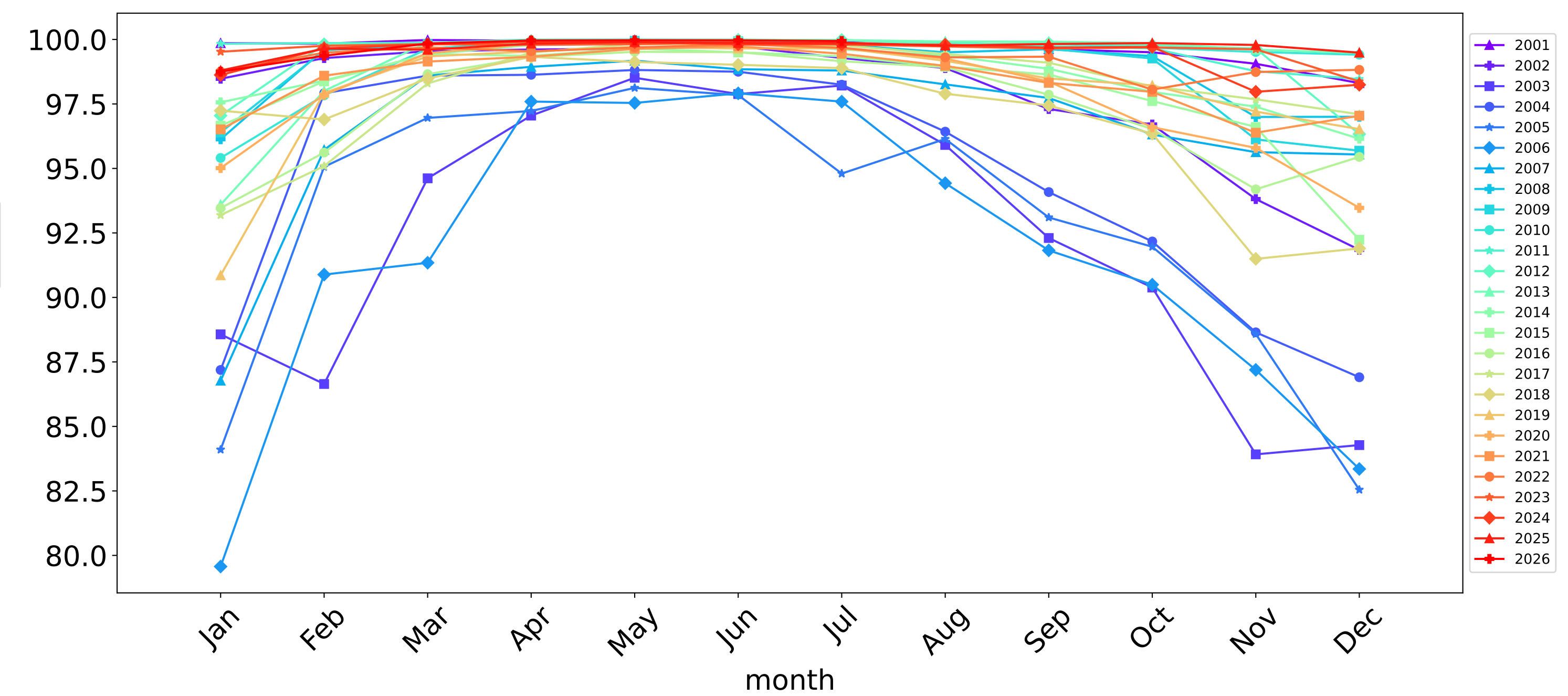
Wind erosion historical monthly area protected (Total Veg Cov >50%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



Water erosion historical monthly area protected (Total Veg Cov>70%)



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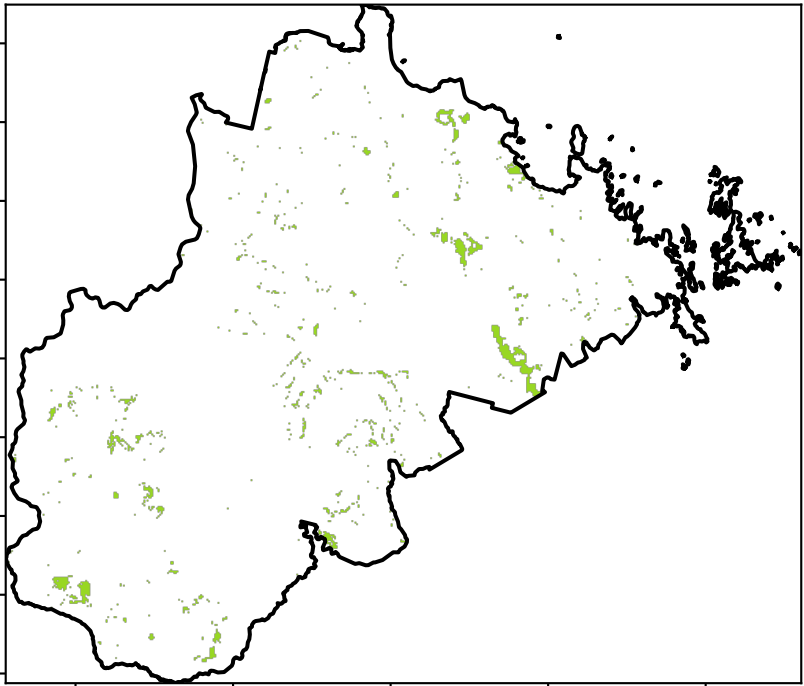
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Grazing - Forest (non woodland)

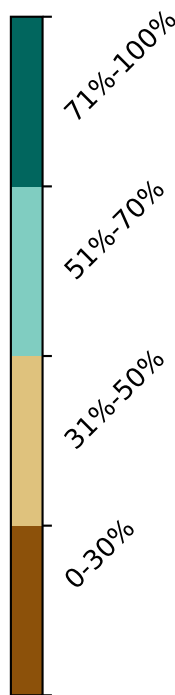
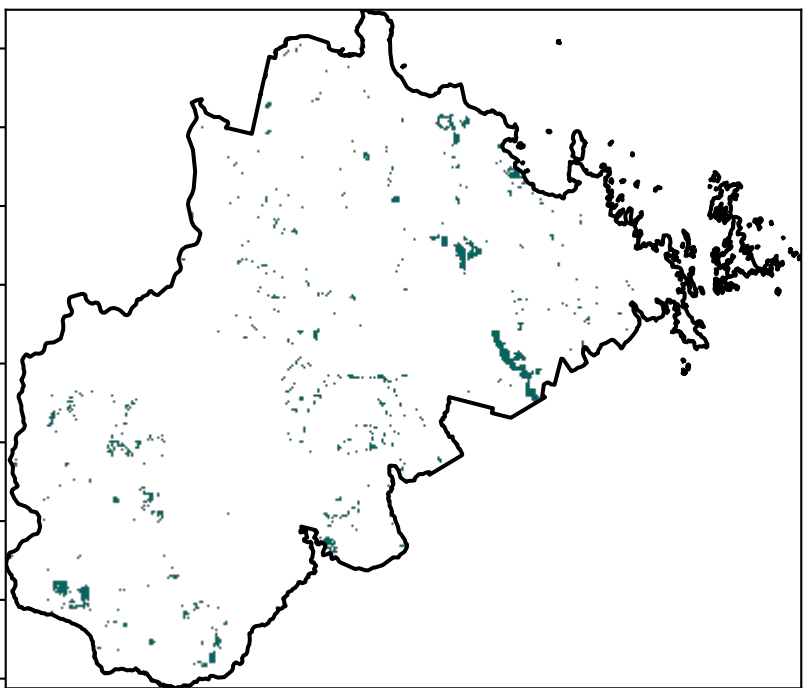
Land use and forest cover

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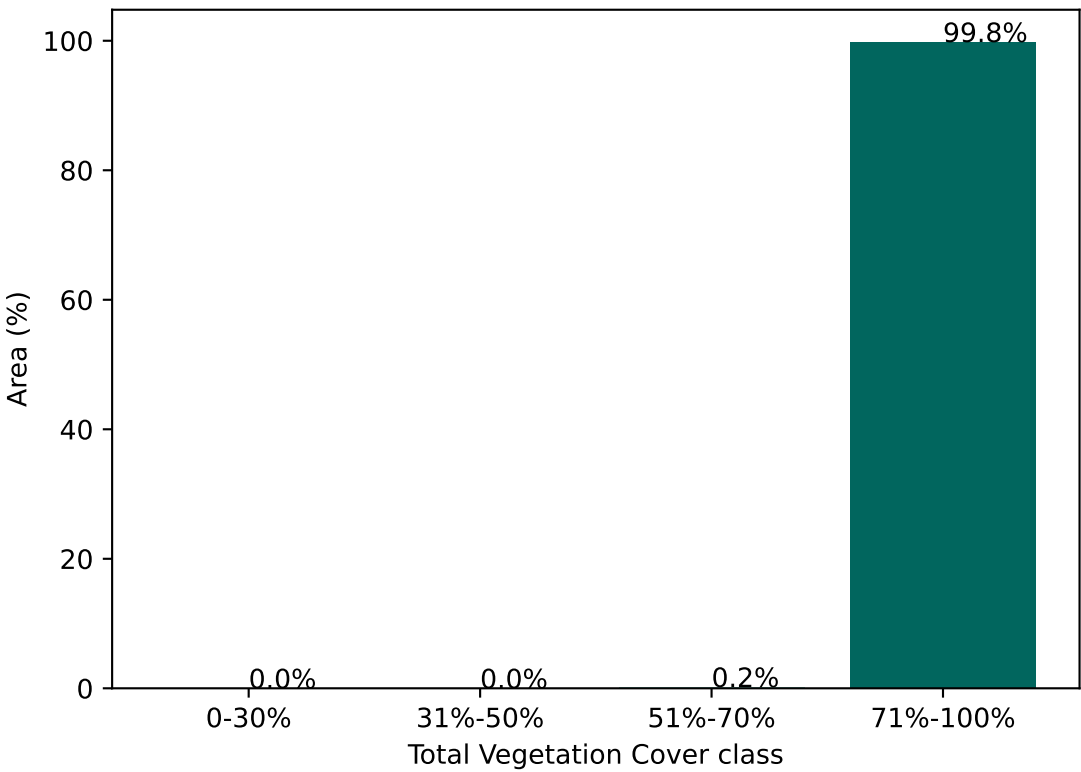


1 Agriculture - Grazing - Non-woodland forest

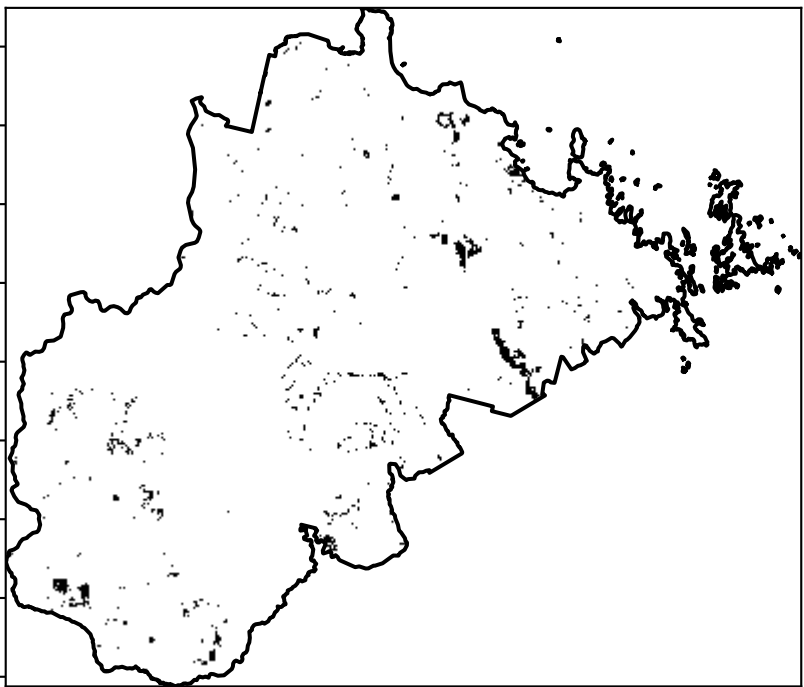
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

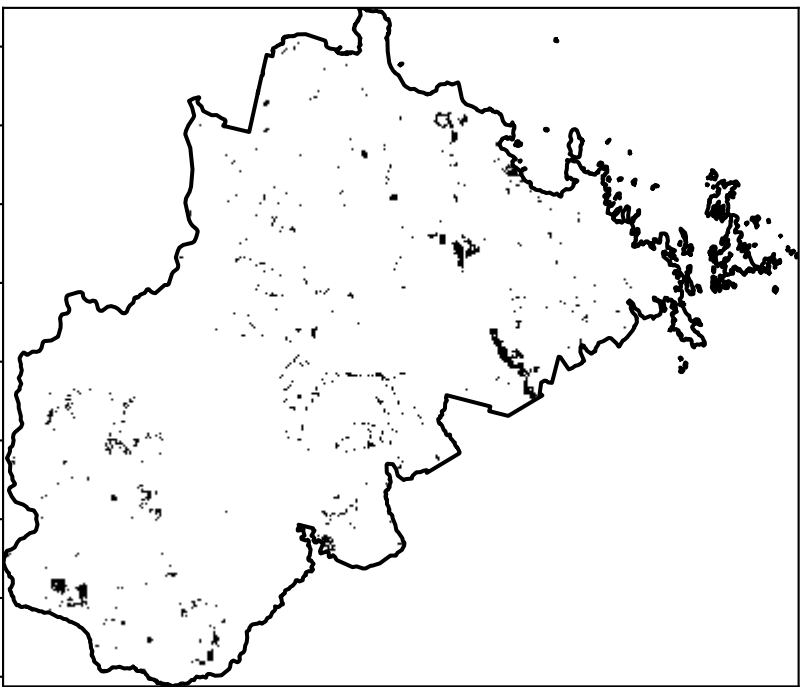


% Area protected from water erosion (>70%)



Area not
protected
0.2% of
region
(102 ha)
Area
protected
99.8% of
region
(50,748
ha)

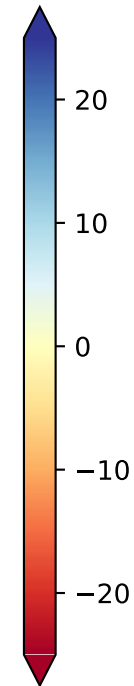
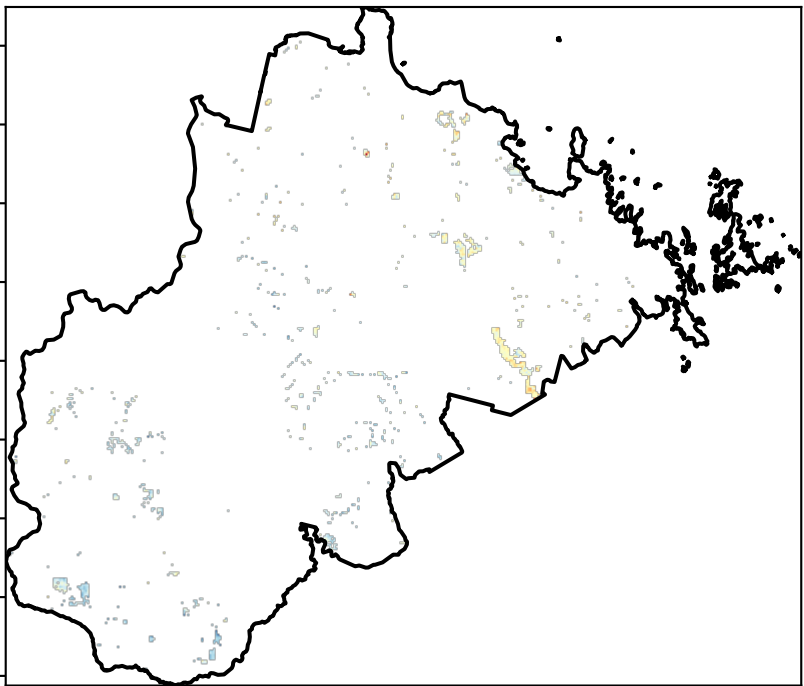
% Area protected from wind erosion (>50%)



Area
protected
100.0% of
region
(50,850
ha)

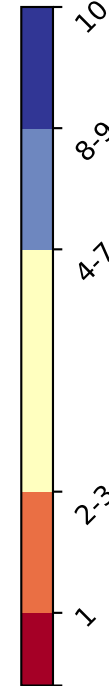
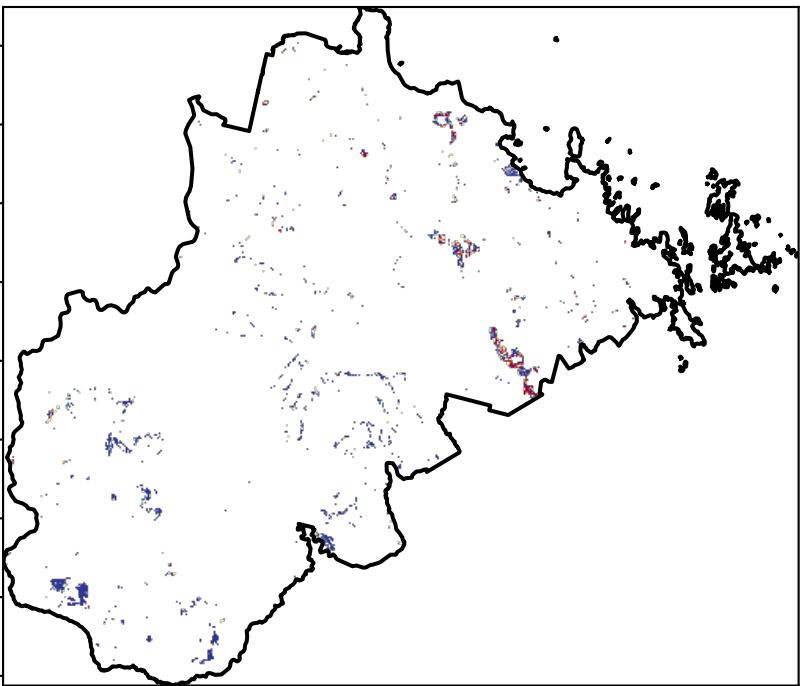
Total Vegetation Cover Anomaly [%]

Anomaly show how
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from 2001 to 2019.

Total Vegetation Cover Decile [%]



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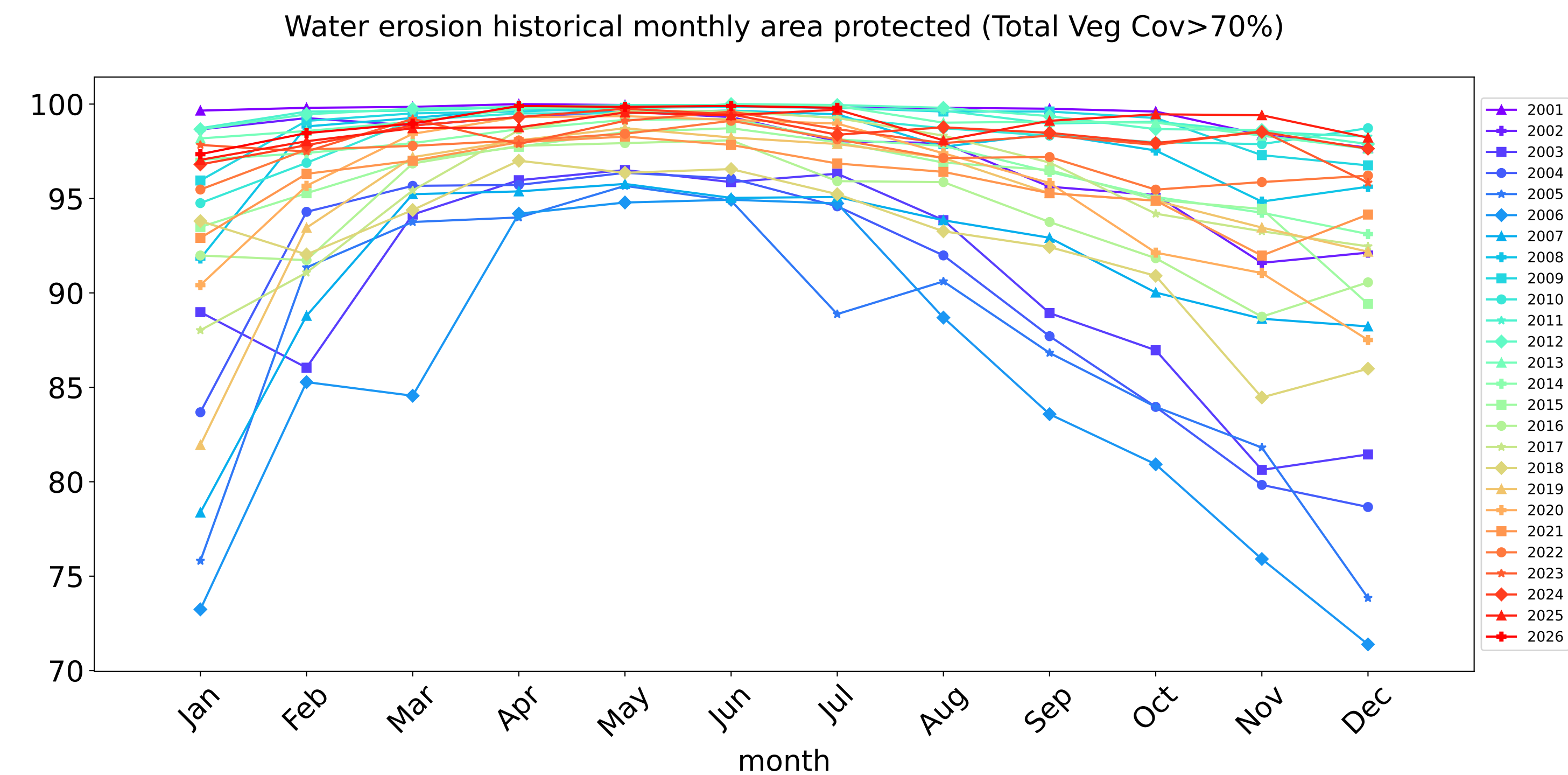
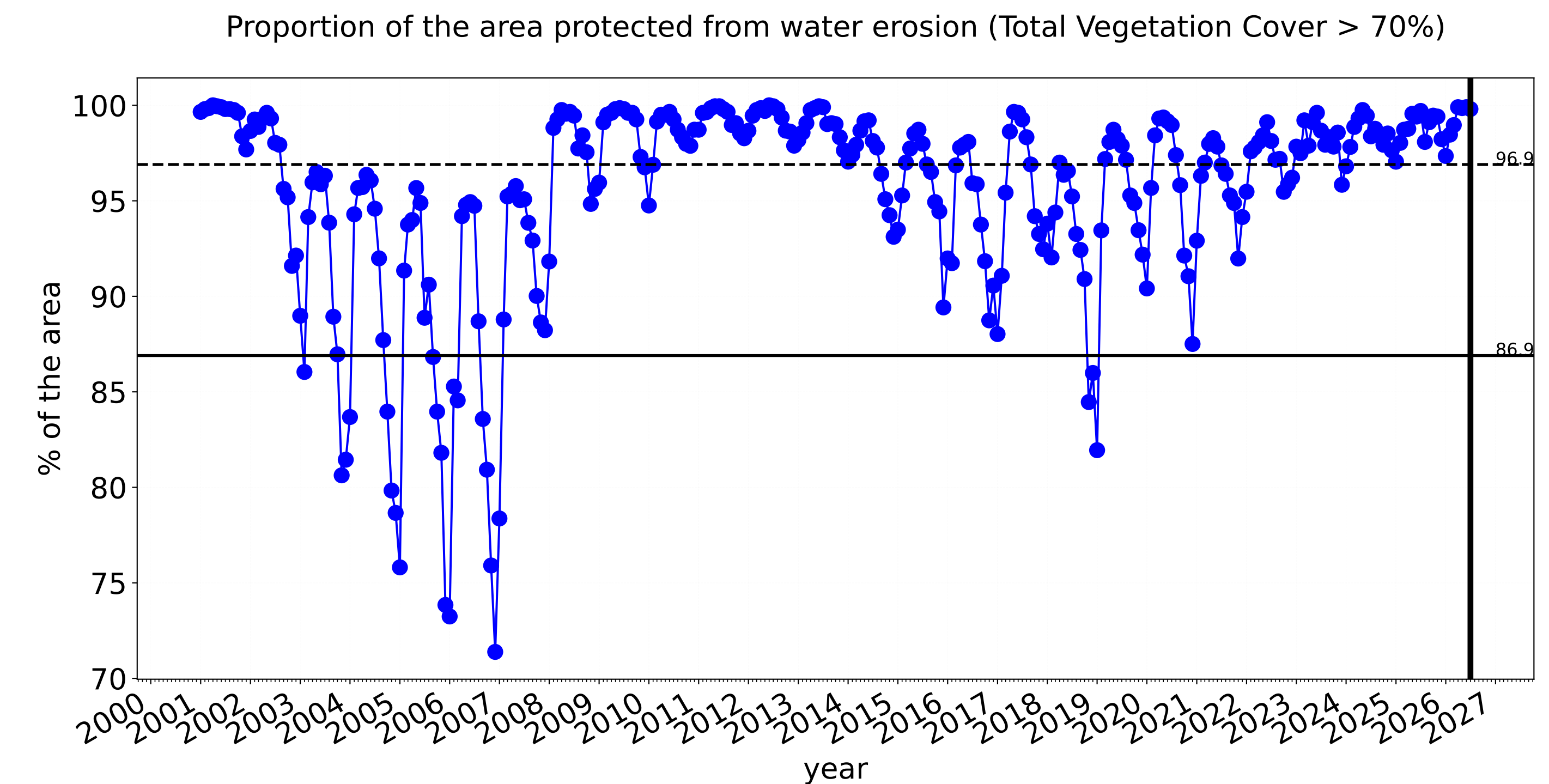
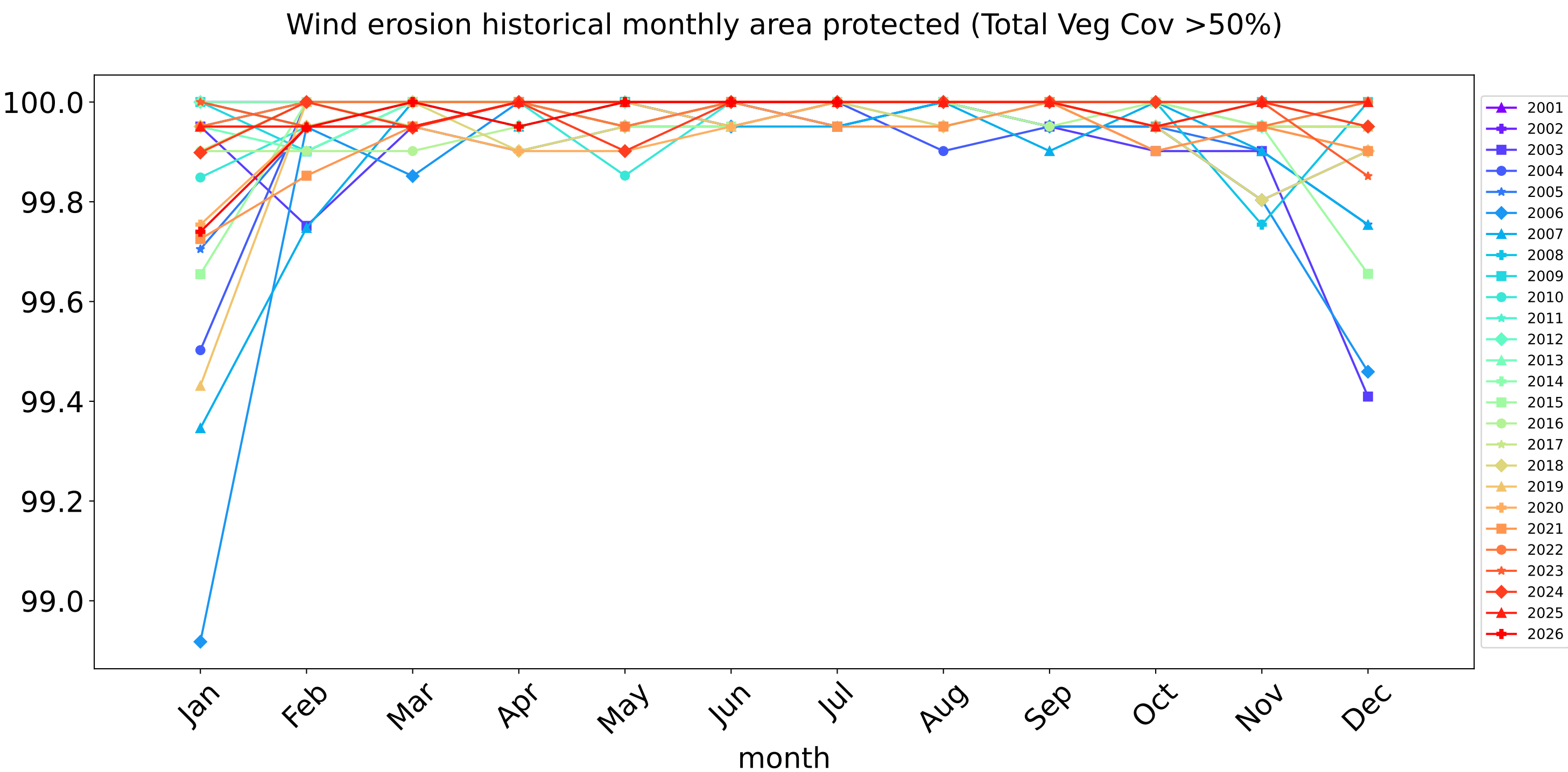
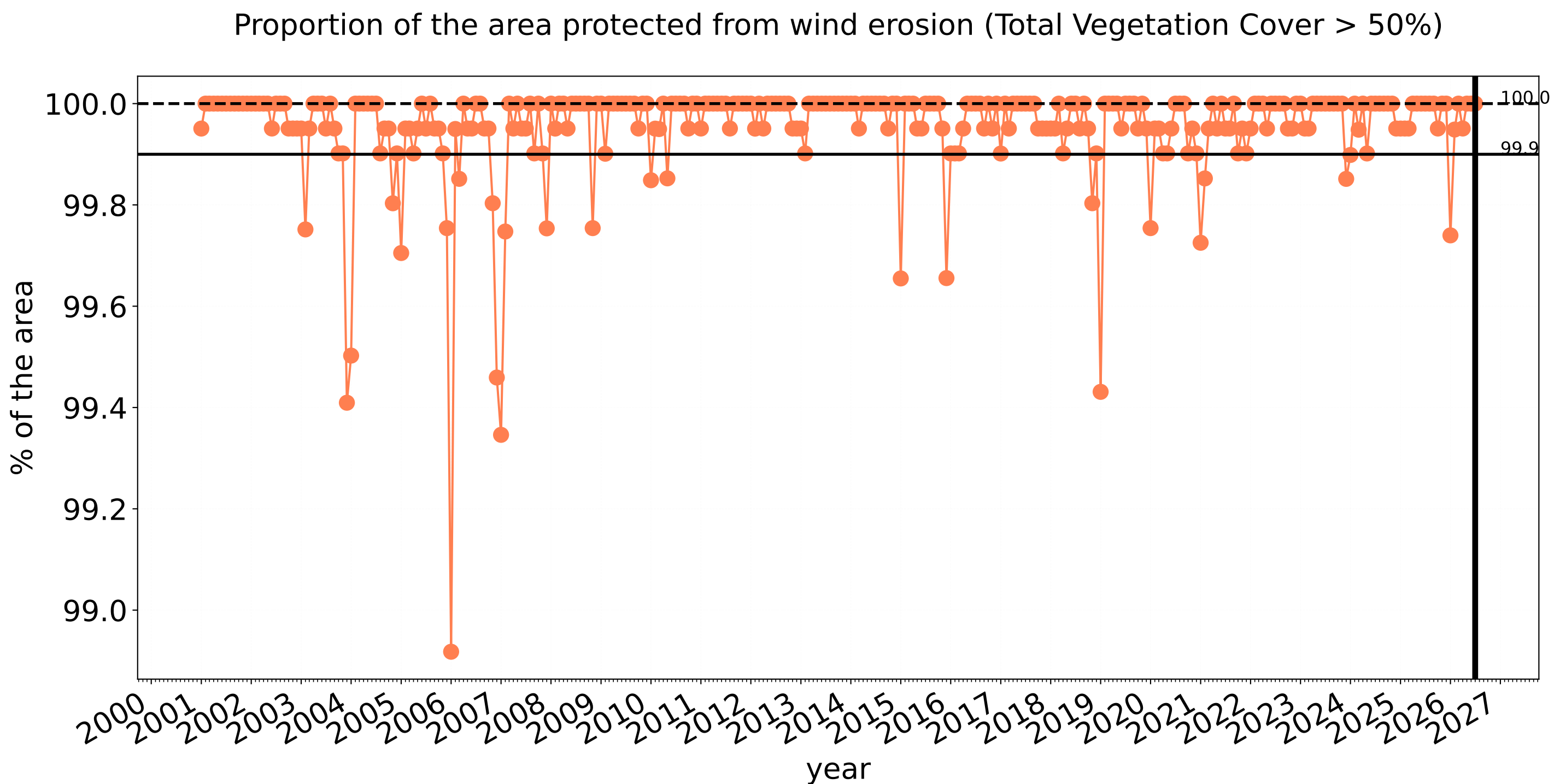
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Grazing - Forest (non woodland) timeseries



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Ecosystem Research Infrastructure



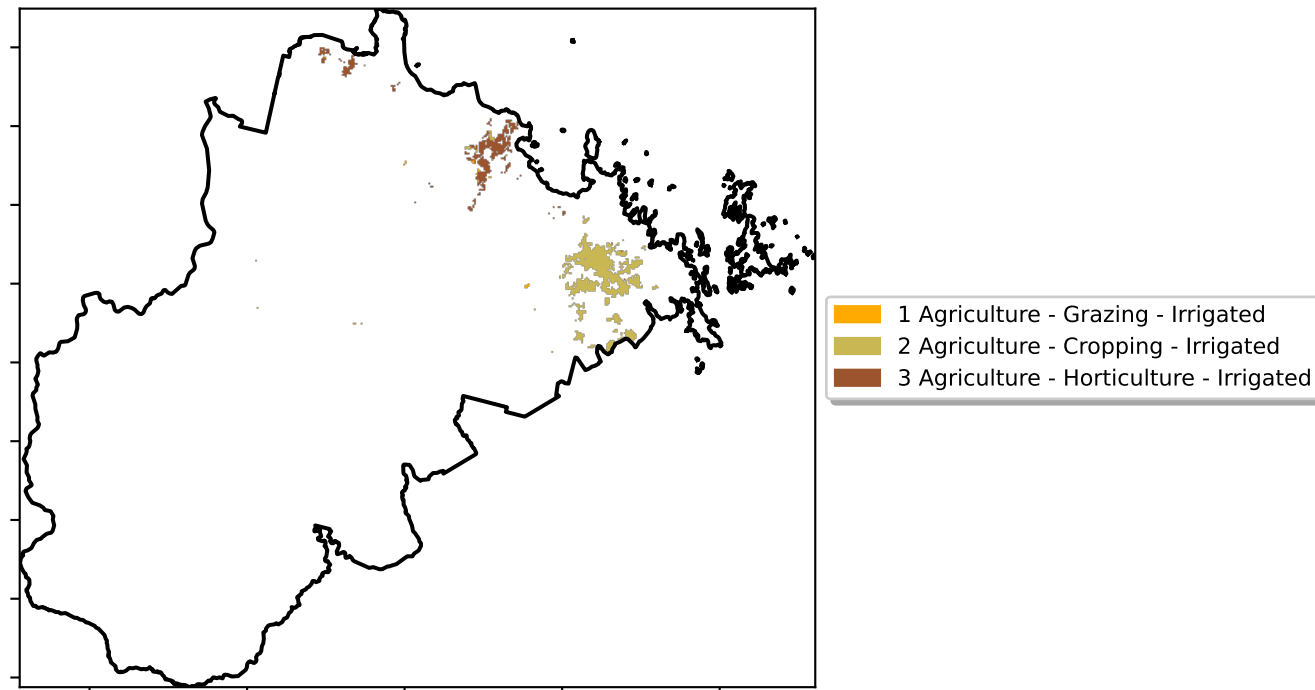
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Landcare
Programme



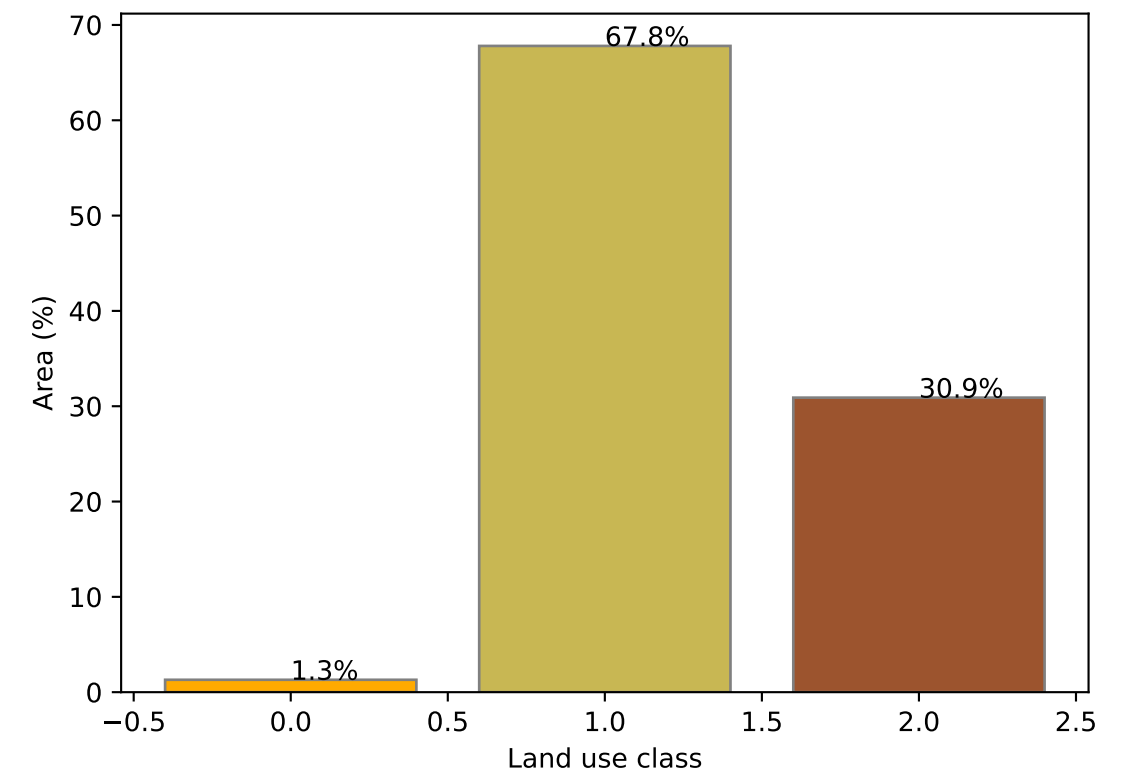
Irrigation

Land use and forest cover

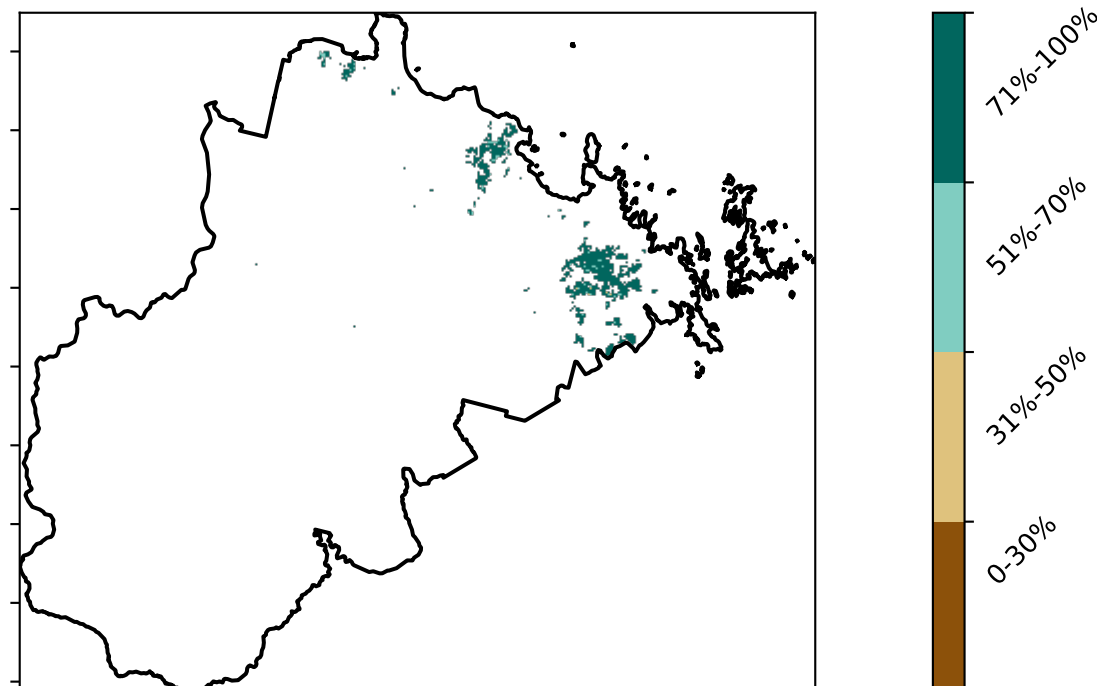
Catchment Scale Land Use and Forests of Australia (2018)
Derived from Catchment Scale Land Use of Australia (2018) and Forests of Australia (2018)



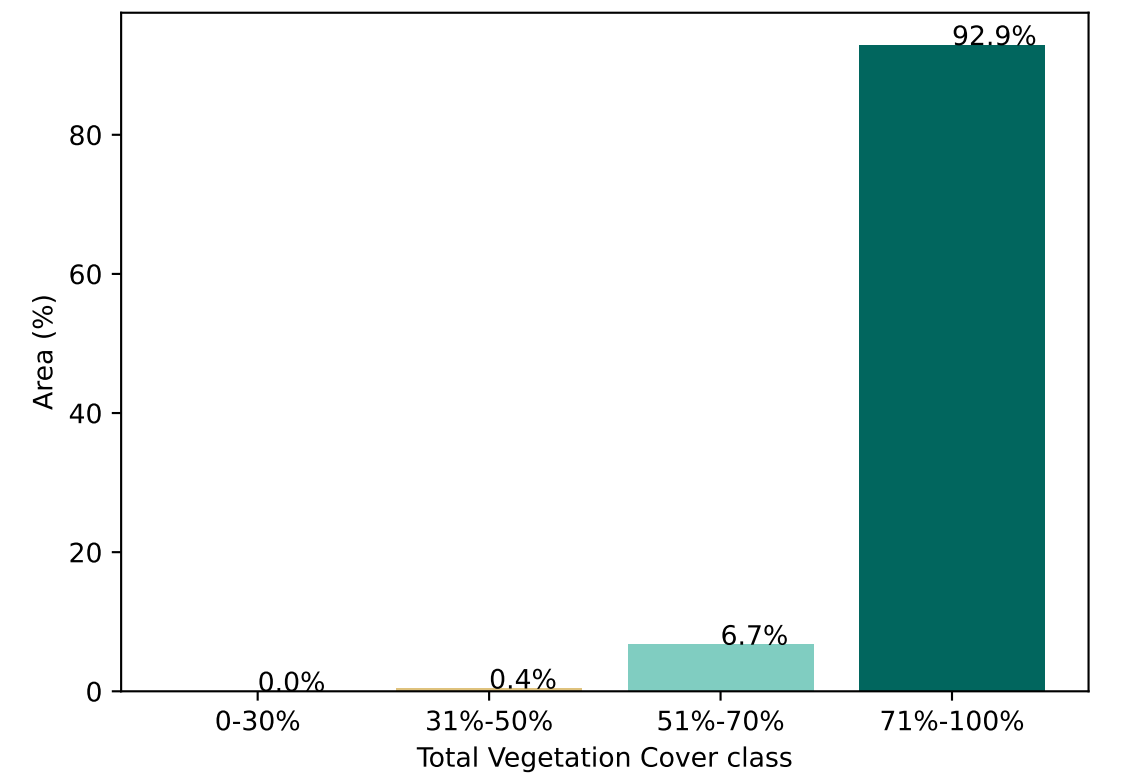
Proportion of each land class in area



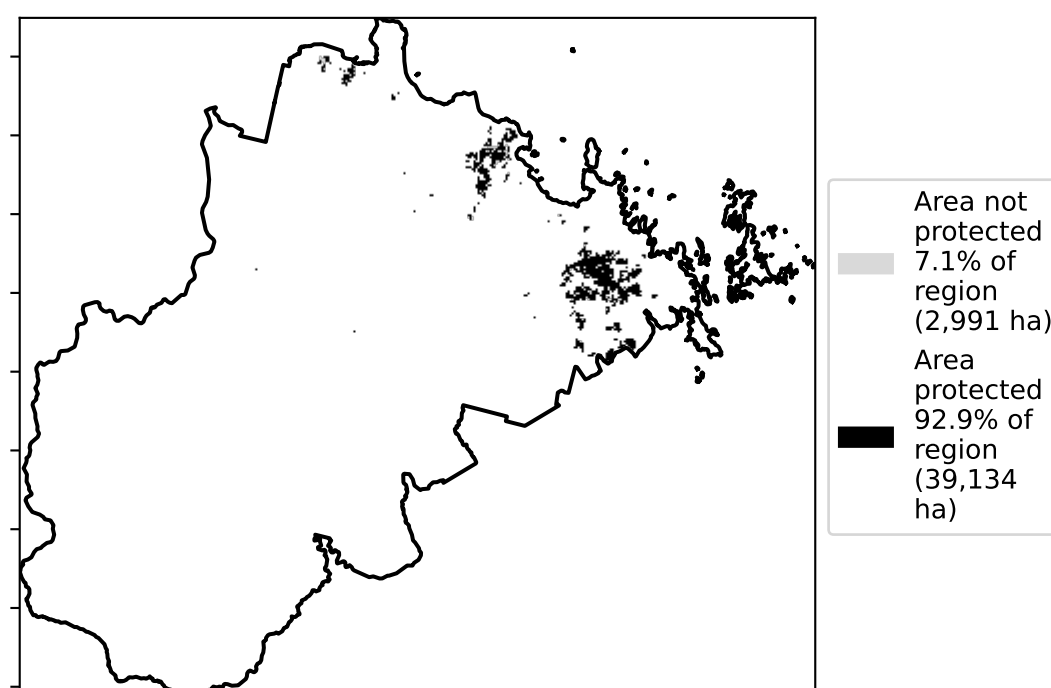
Total Vegetation Cover [%]



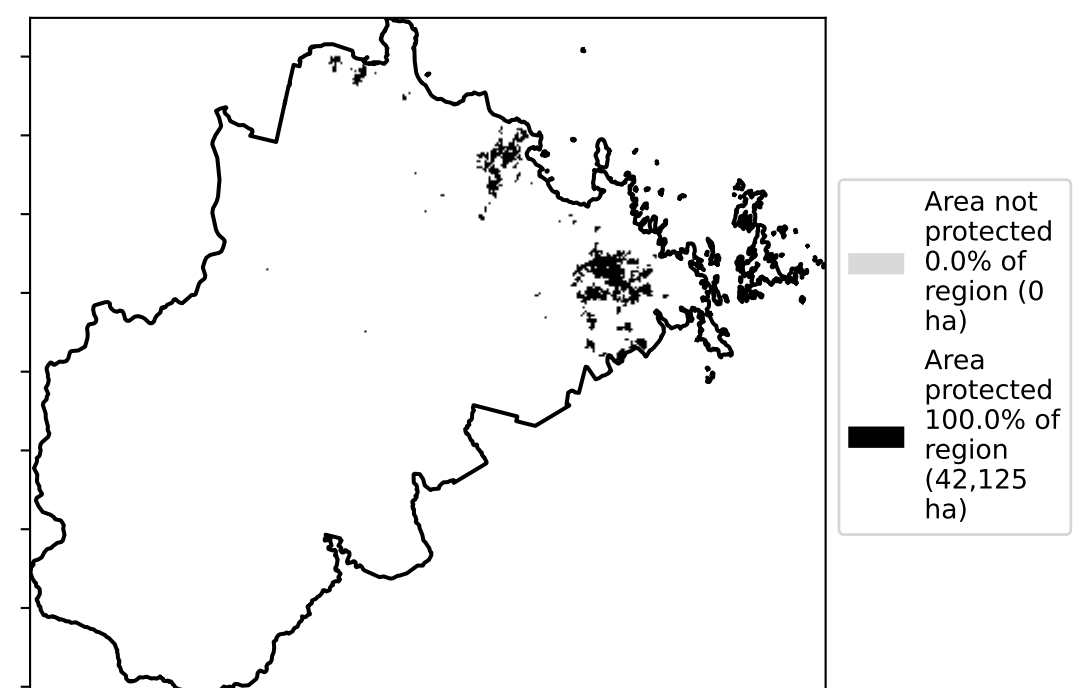
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

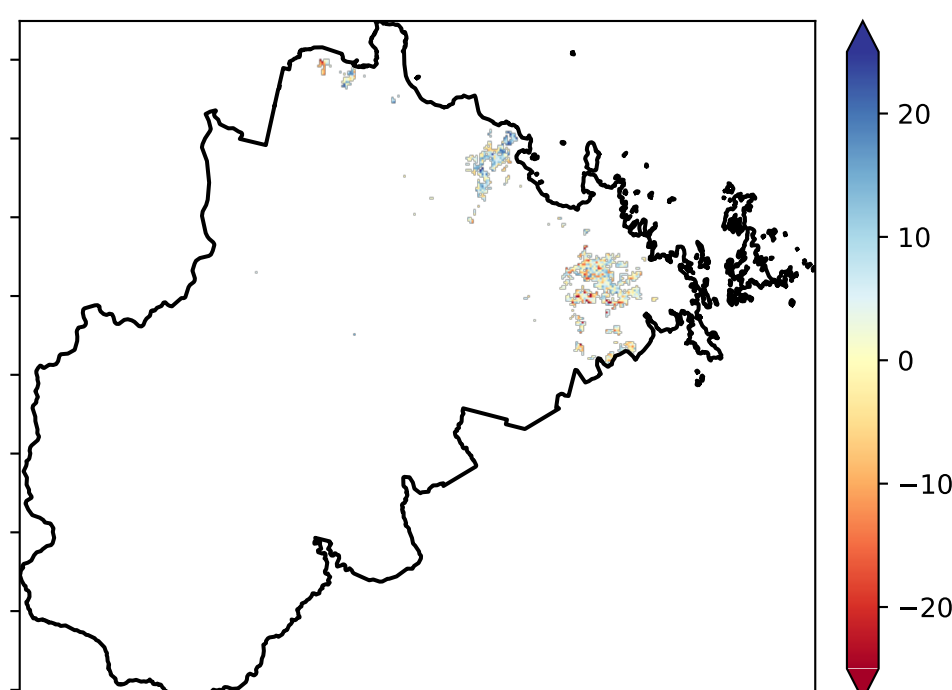


% Area protected from wind erosion (>50%)



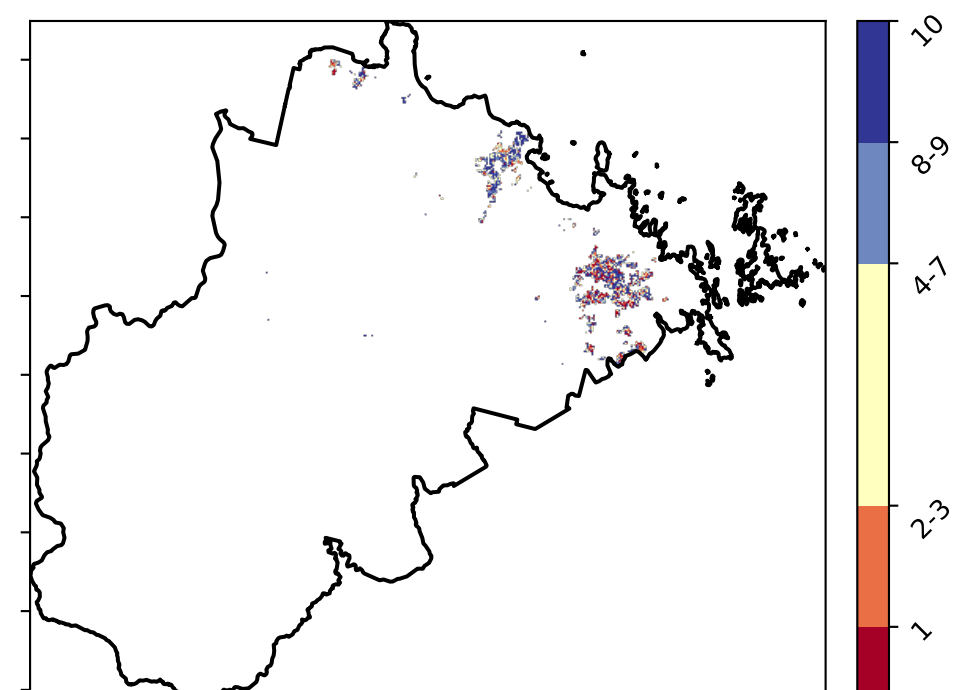
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

Total Vegetation Cover Decile [%]



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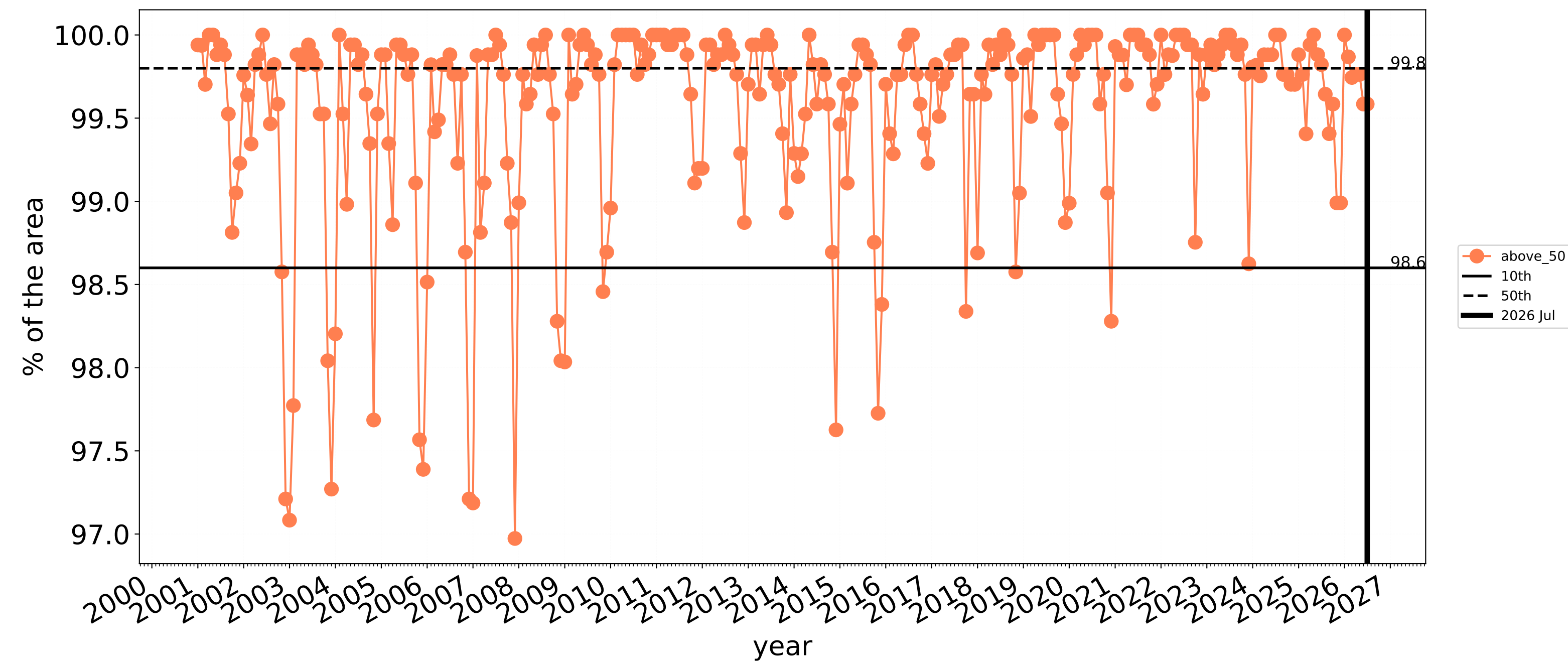
Australian Government

National Landcare Programme

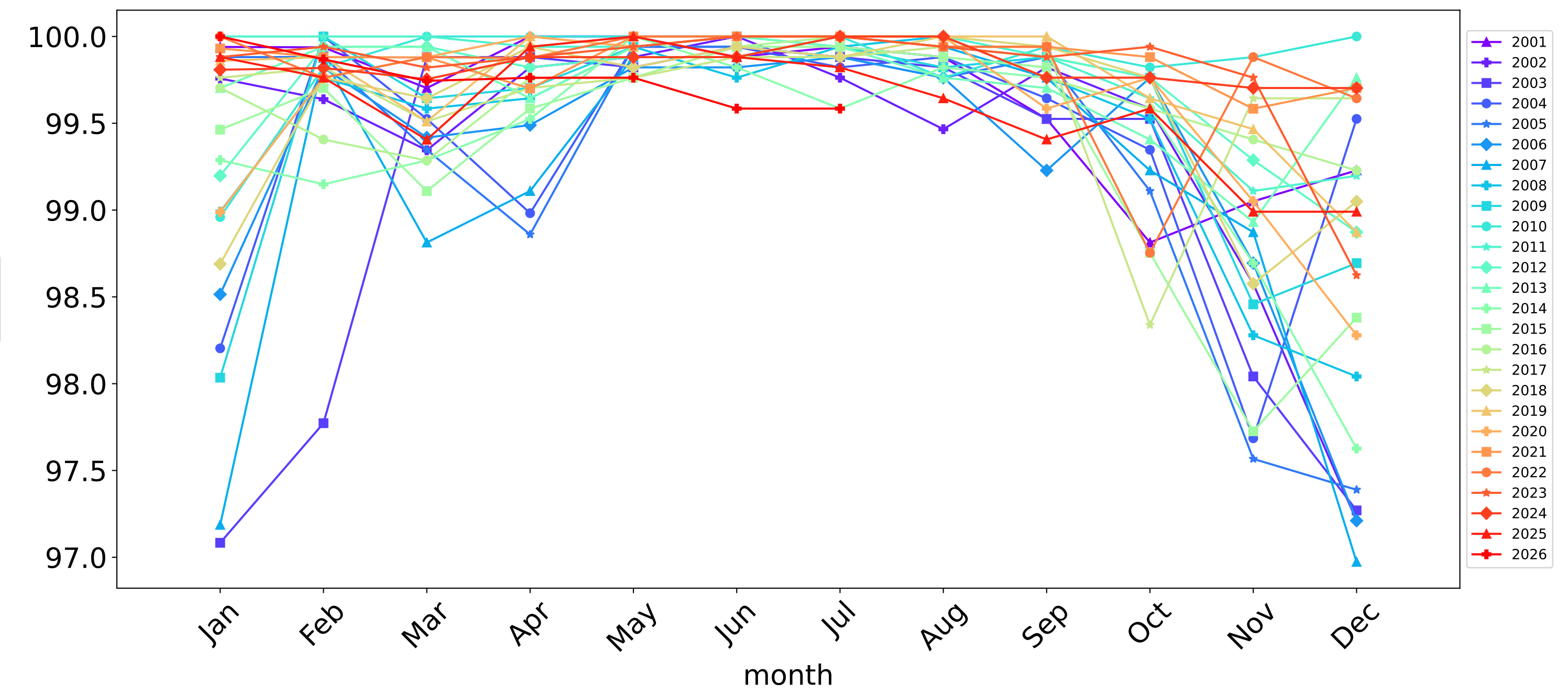


Irrigation timeseries

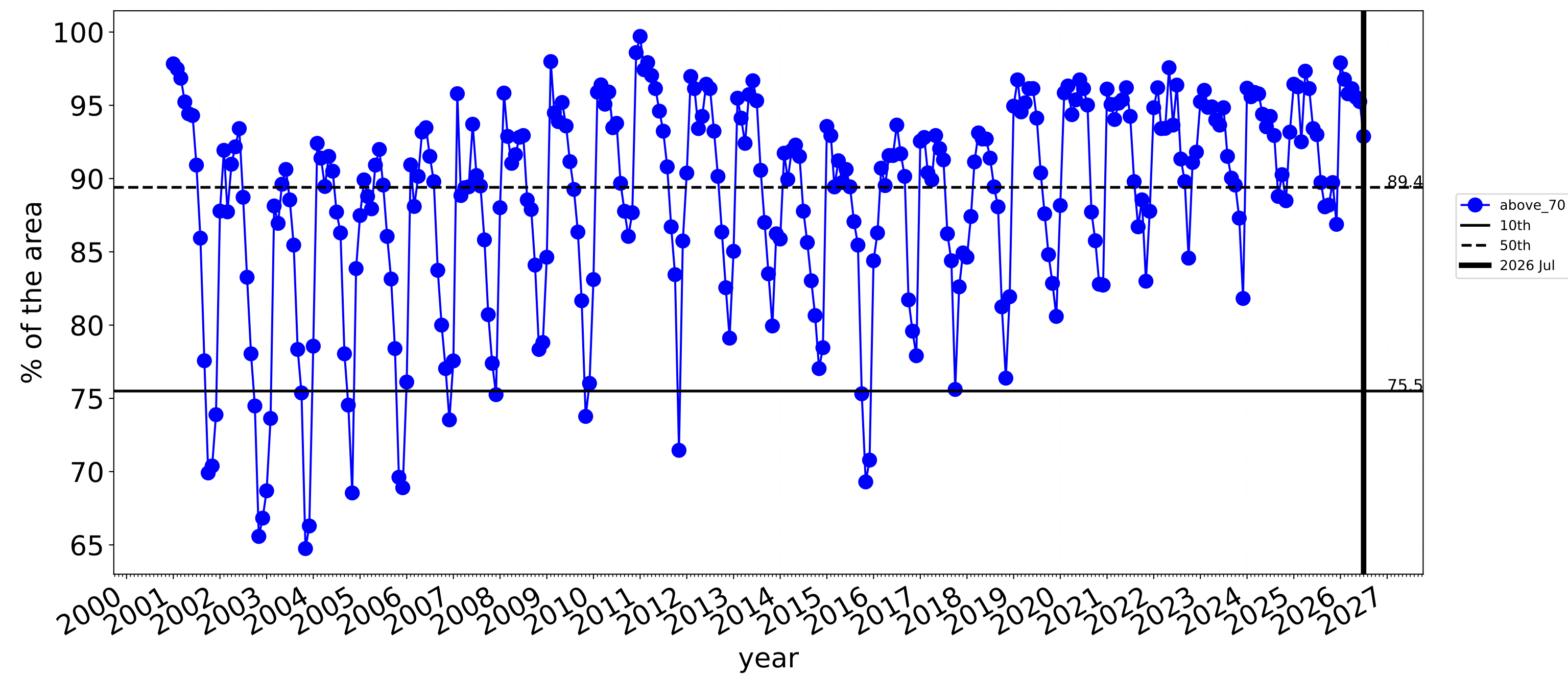
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



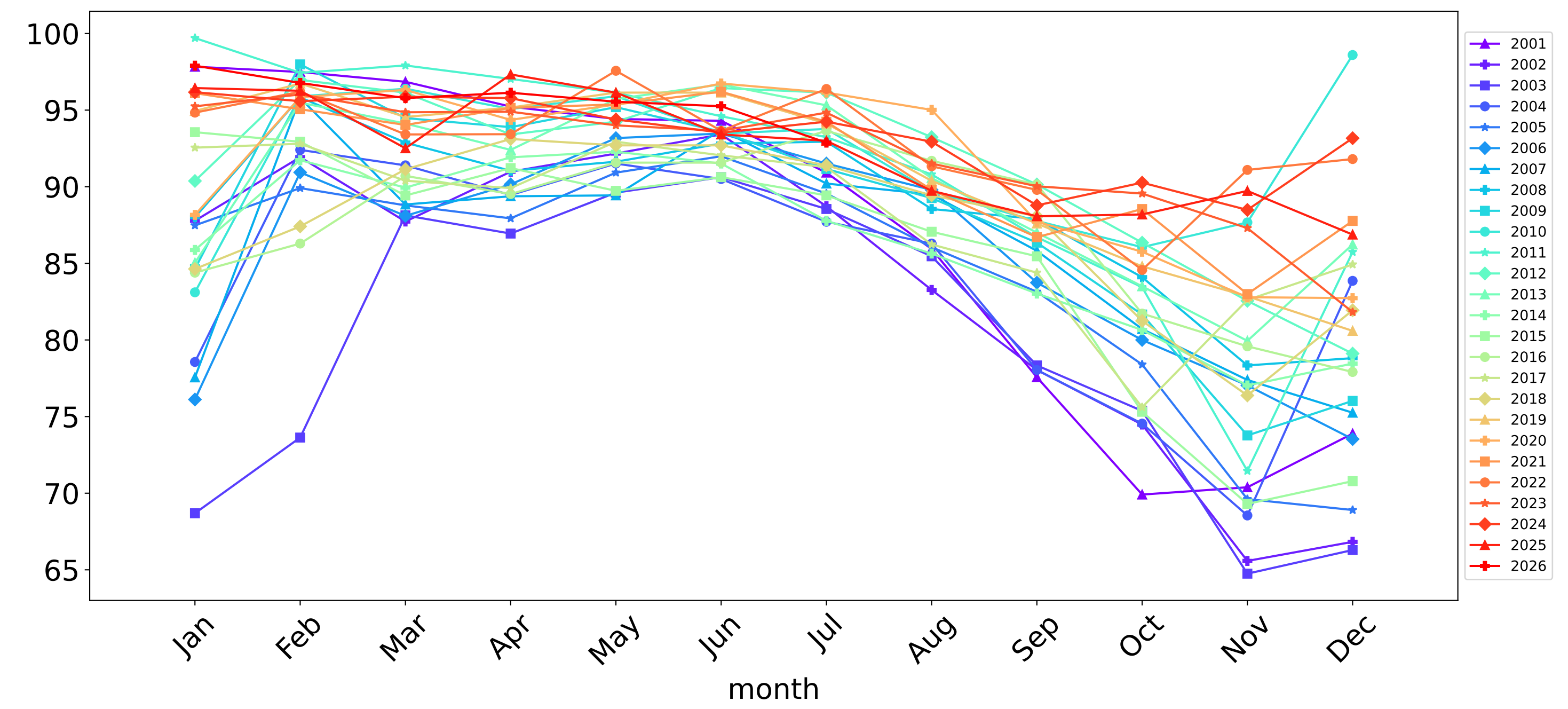
Wind erosion historical monthly area protected (Total Veg Cov >50%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



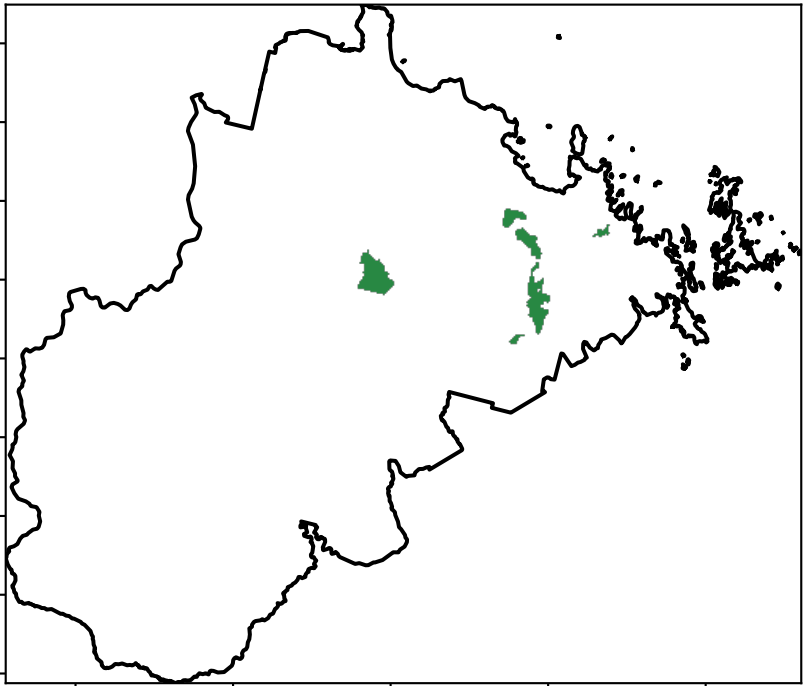
Water erosion historical monthly area protected (Total Veg Cov>70%)



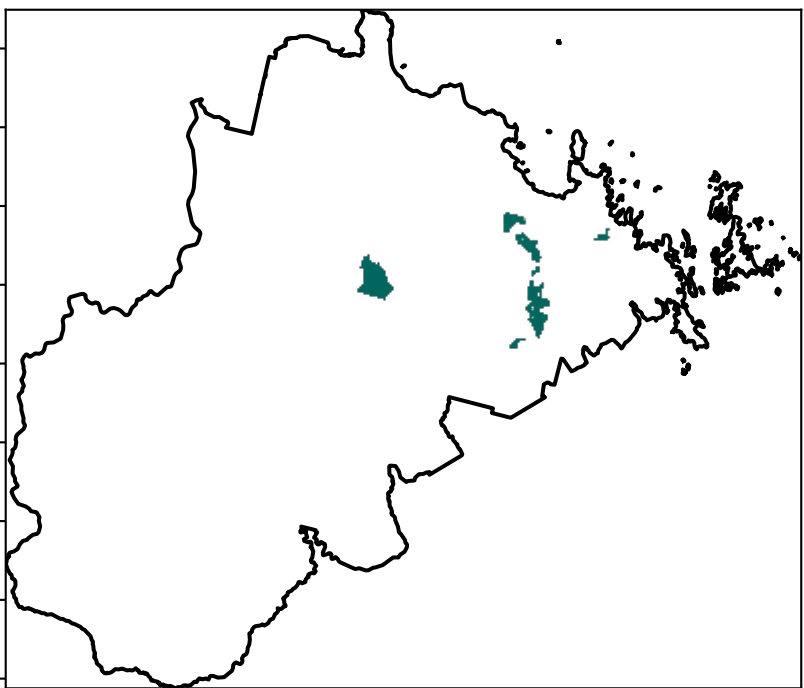
Production native forests and plantation forests

Land use and forest cover

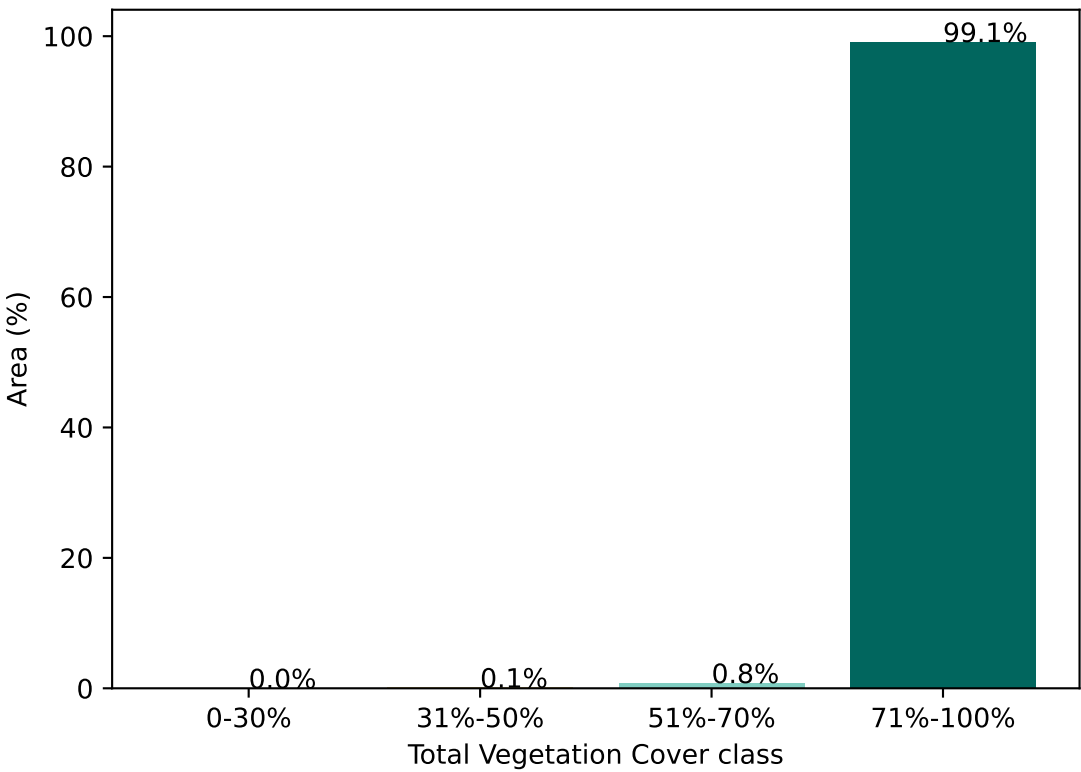
Catchment Scale
Land Use and Forests
of Australia (2018)
Derived from
Catchment Scale Land
Use of Australia
(2018) and Forests
of Australia (2018)



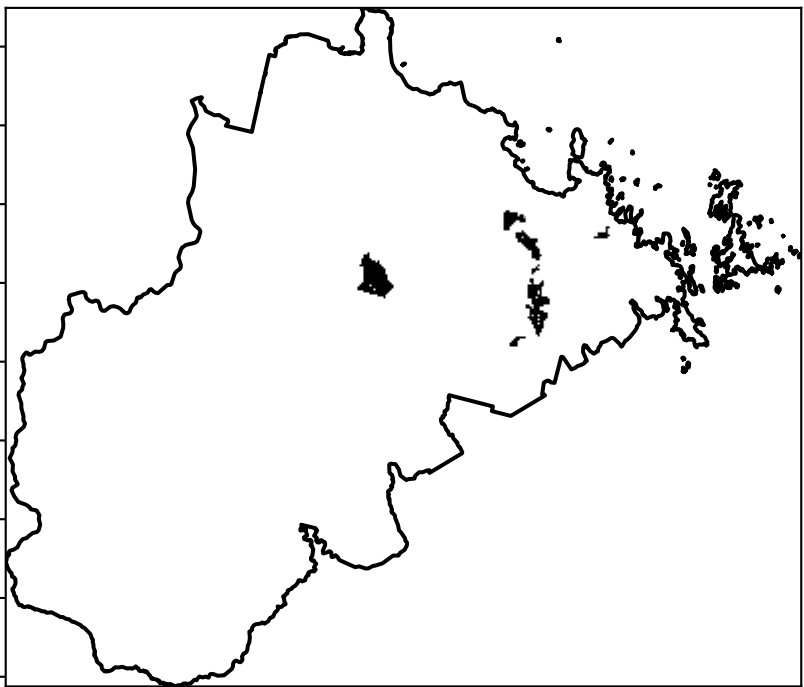
Total Vegetation Cover [%]



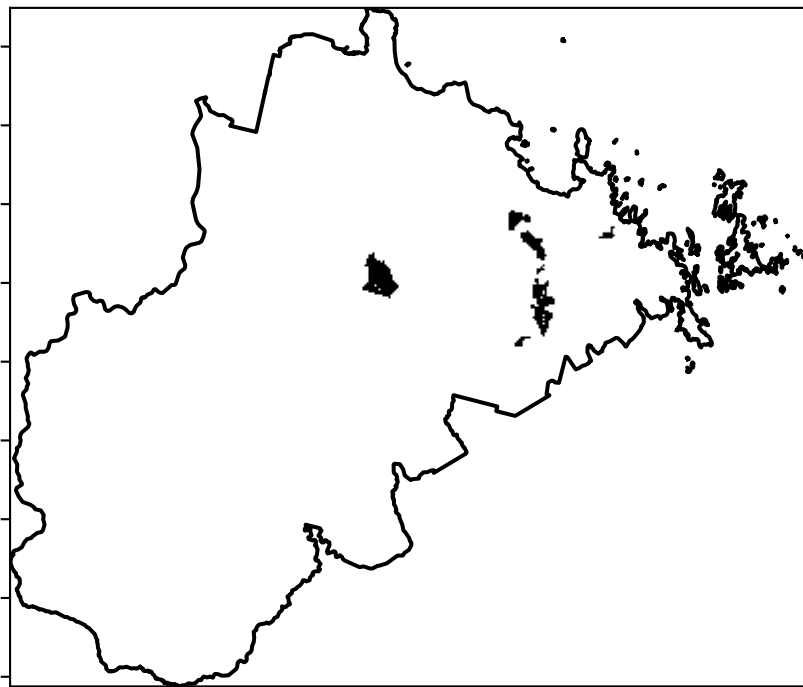
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

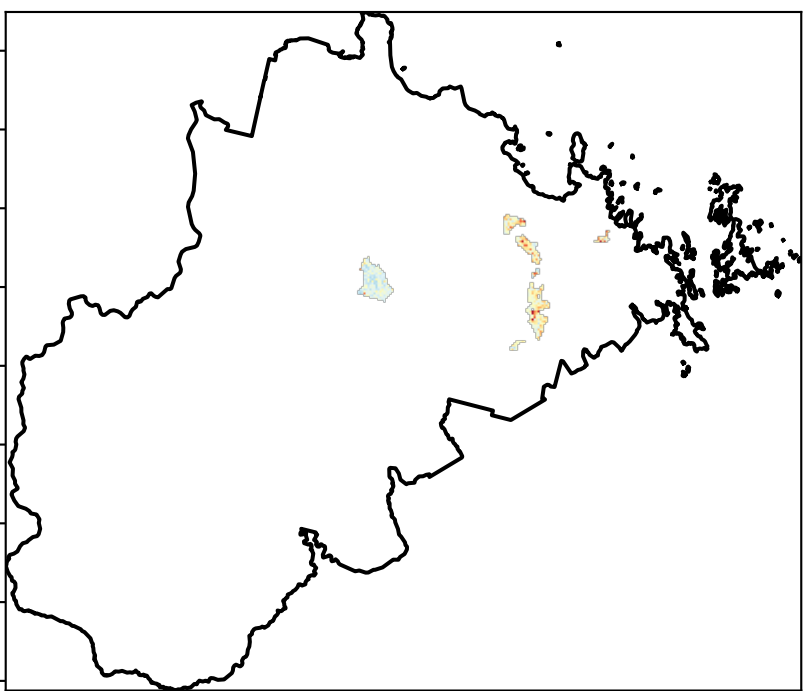


% Area protected from wind erosion (>50%)



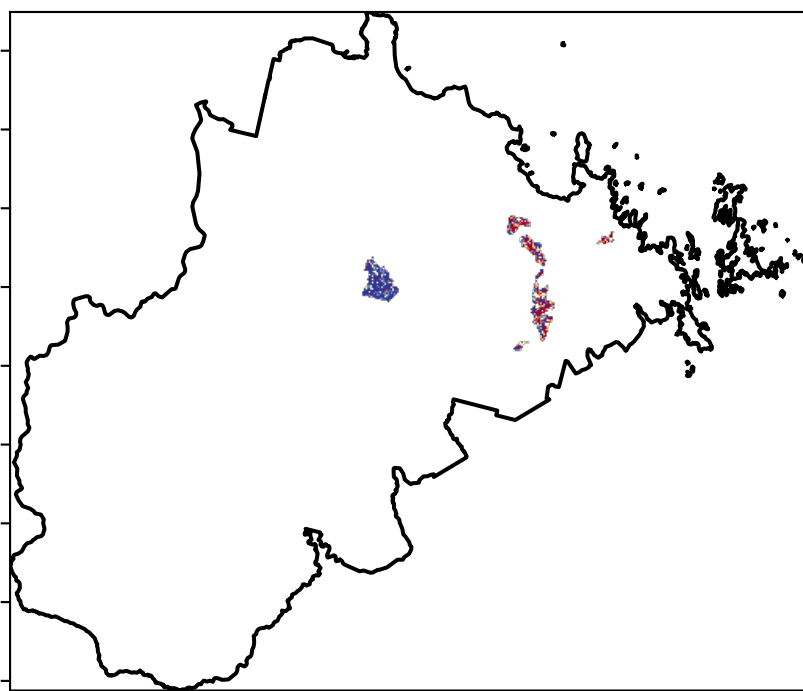
Total Vegetation Cover Anomaly [%]

Anomaly show how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

Total Vegetation Cover Decile [%]



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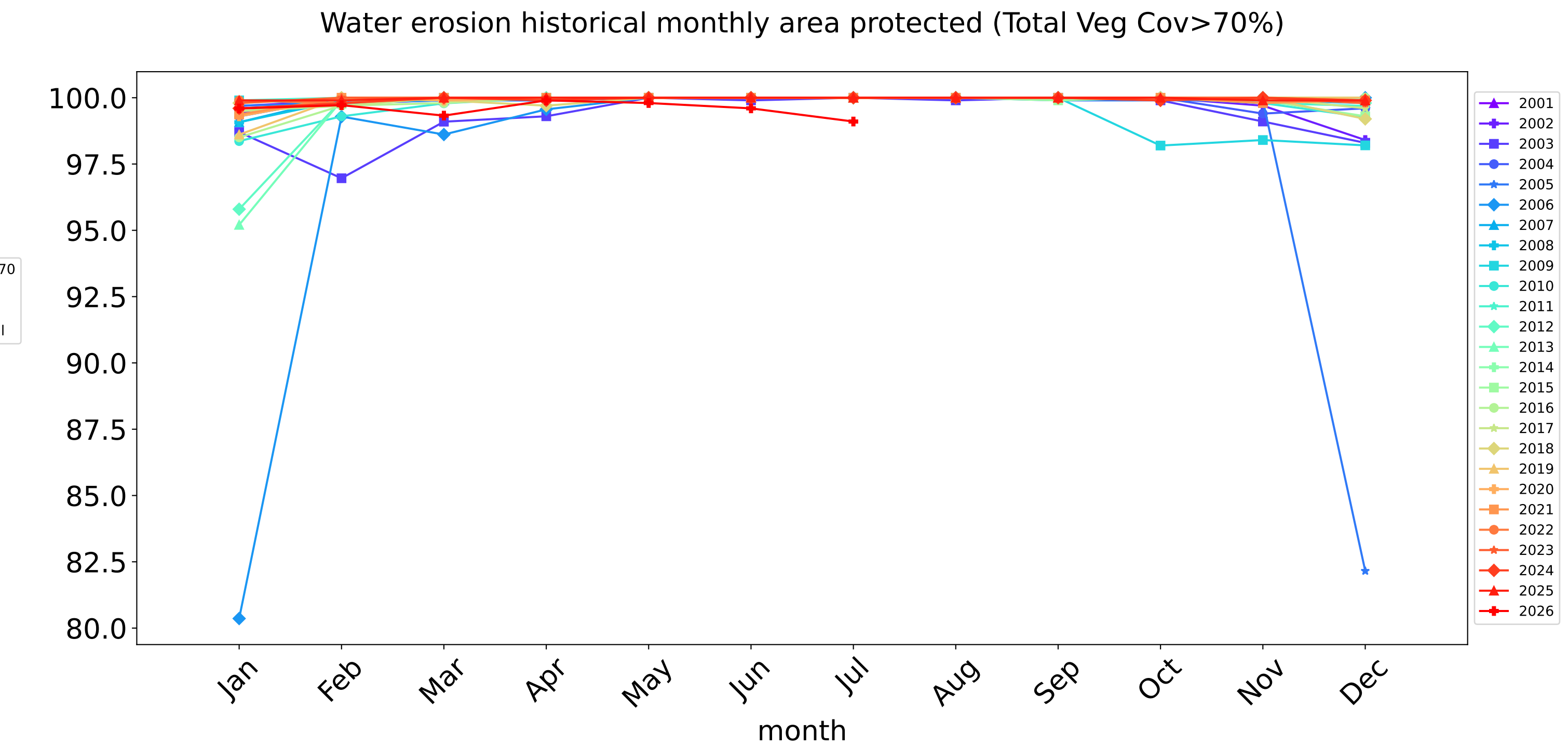
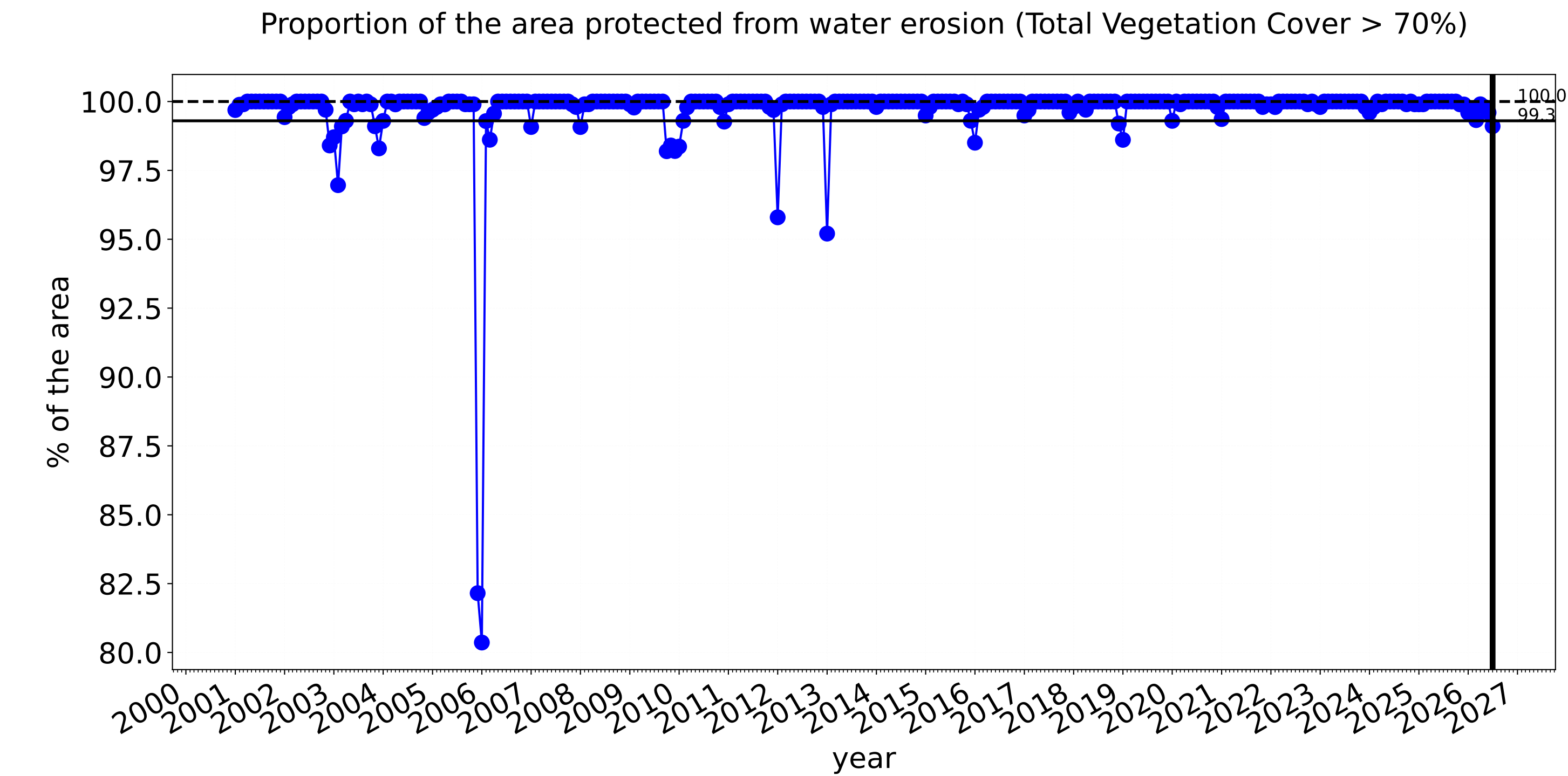
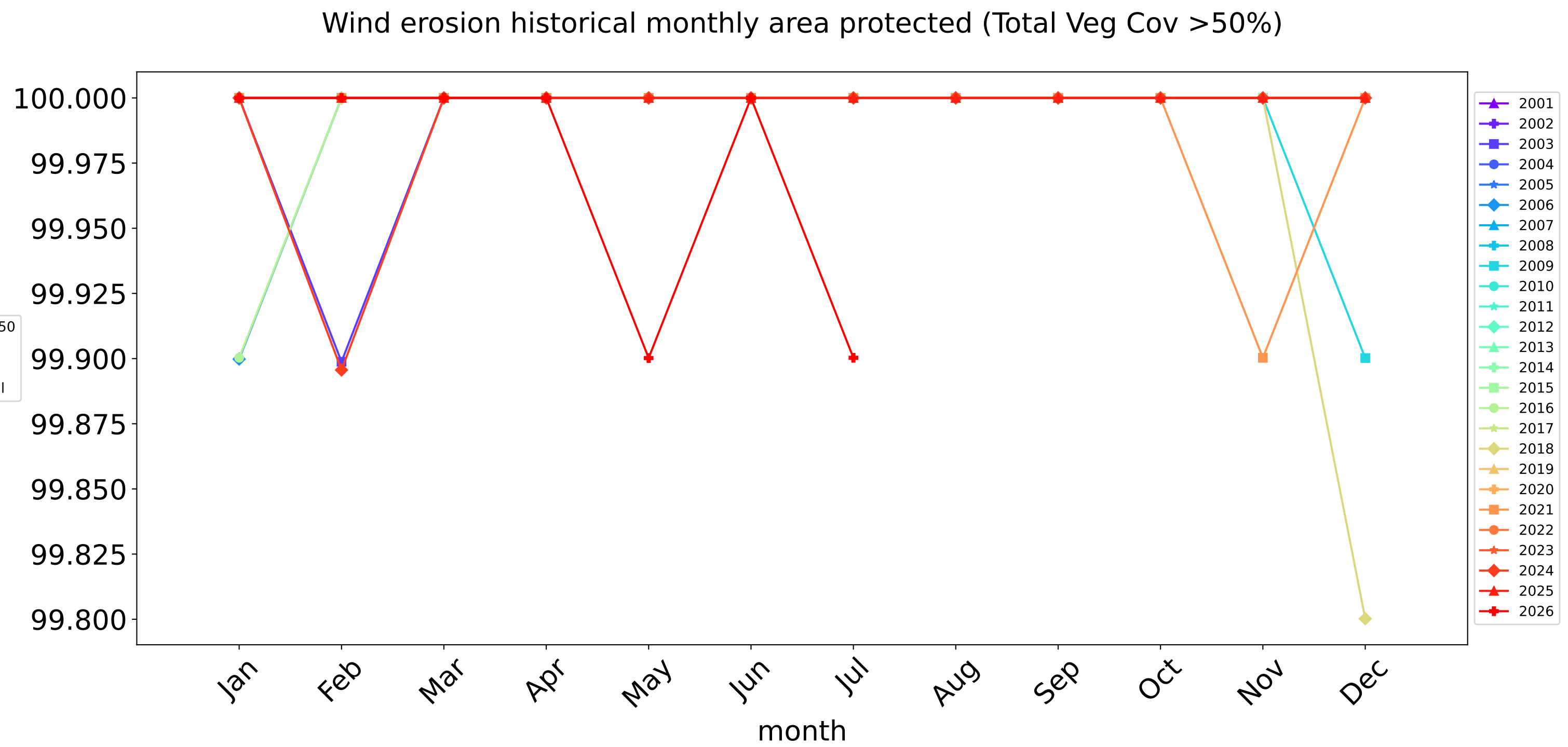
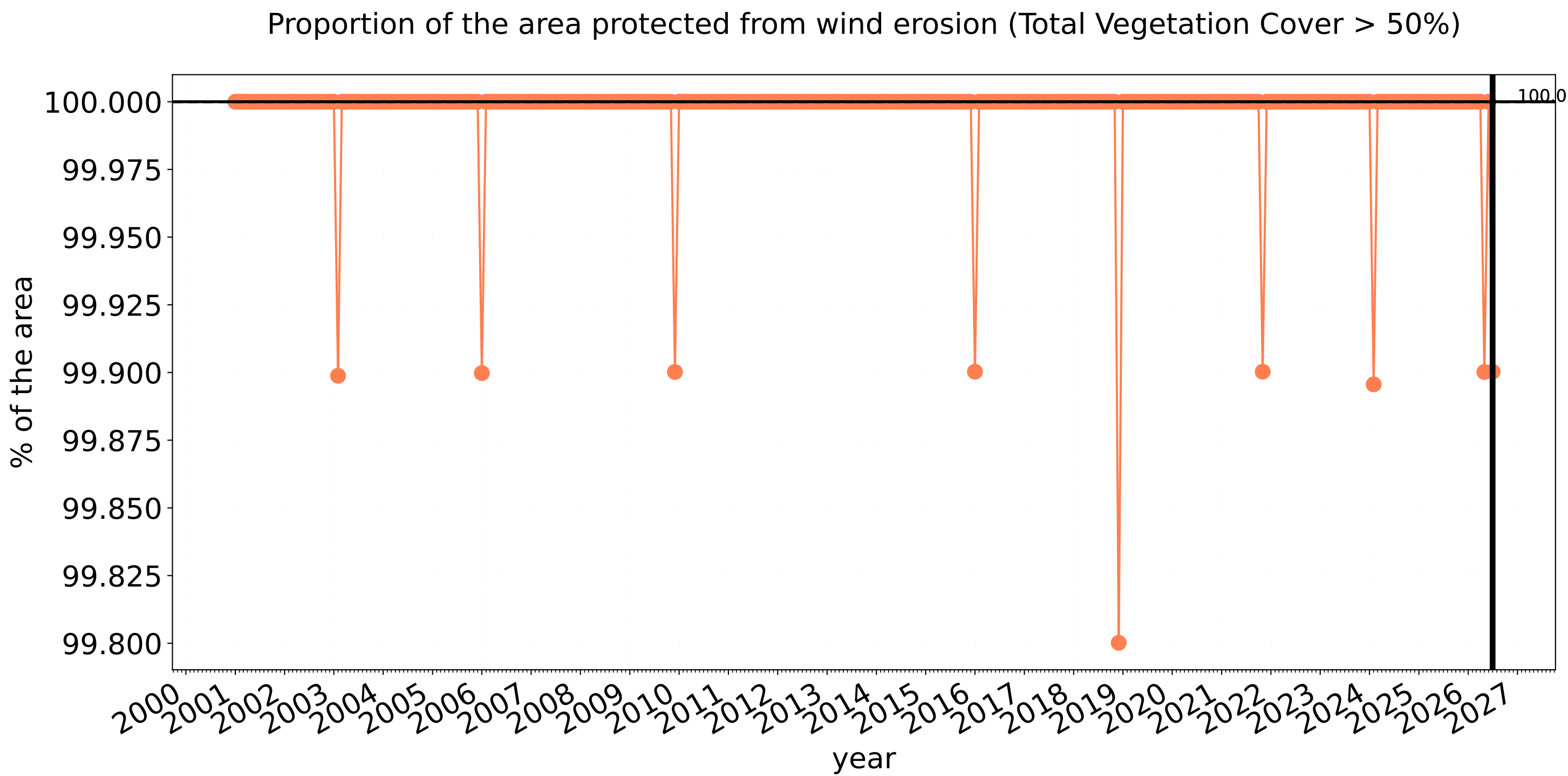


Australian Government

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Landcare
Programme



Production native forests and plantation forests timeseries



Ecosystem Research Infrastructure



National Landcare Programme



Whitsunday_(R) (2,357,800 ha and no data 24,076 ha) Percentage area
and hectares protected with TVC threshold 30,50,70,80,90 and 95%

Land use and forest cover Class	area(ha)	above_30	above_50	above_70	above_80	above_90	above_95
Entire region	2,357,800	100.0% 2,356,625	99.8% 2,353,250	98.6% 2,325,125	95.1% 2,242,700	70.1% 1,653,850	34.5% 814,425
Conservation and natural environments	170,275	99.6% 169,625	98.9% 168,400	95.6% 162,850	88.3% 150,275	54.7% 93,175	28.7% 48,825
Conservation and natural environments non forest	28,400	99.6% 28,275	98.8% 28,050	94.5% 26,825	84.7% 24,050	32.6% 9,250	9.7% 2,750
Conservation and natural environments Woodland forest	57,150	99.8% 57,050	99.6% 56,900	97.5% 55,725	92.7% 52,950	66.4% 37,950	36.3% 20,725
Conservation and natural environments Forest (non woodland)	84,725	99.5% 84,300	98.5% 83,450	94.8% 80,300	86.5% 73,275	54.3% 45,975	29.9% 25,350
Agriculture	2,084,900	100.0% 2,084,675	100.0% 2,083,900	99.3% 2,070,000	96.5% 2,012,375	72.6% 1,513,150	35.5% 741,000
Grazing	2,042,475	100.0% 2,042,275	100.0% 2,041,650	99.4% 2,030,575	97.0% 1,980,575	73.3% 1,496,950	35.9% 732,600
Grazing non forest	1,171,800	100.0% 1,171,600	99.9% 1,171,000	99.0% 1,160,475	95.3% 1,116,475	66.8% 782,475	30.1% 352,975
Grazing Woodland forest	819,825	100.0% 819,825	100.0% 819,800	99.9% 819,350	99.3% 814,400	82.9% 679,575	44.4% 363,600
Grazing - Forest (non woodland)	50,850	100.0% 50,850	100.0% 50,850	99.8% 50,750	97.7% 49,700	68.6% 34,900	31.5% 16,025
Irrigation	42,125	99.9% 42,100	99.6% 41,950	92.9% 39,125	74.8% 31,500	37.9% 15,975	19.5% 8,200
Production native forests and plantation forests	25,075	100.0% 25,075	99.9% 25,050	99.1% 24,850	96.3% 24,150	80.6% 20,200	52.0% 13,050



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