

# Total vegetation cover soil protection

Region:LGA Manjimup\_(S) WA

Date: April 2024

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>



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Ecosystem Research Infrastructure



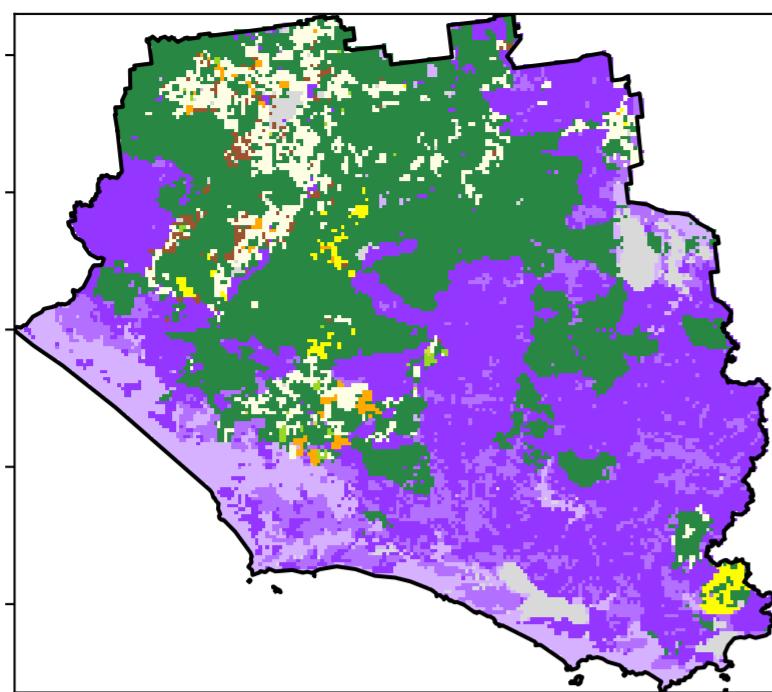
National  
Landcare  
Programme



# Vegetation Cover Apr 2024

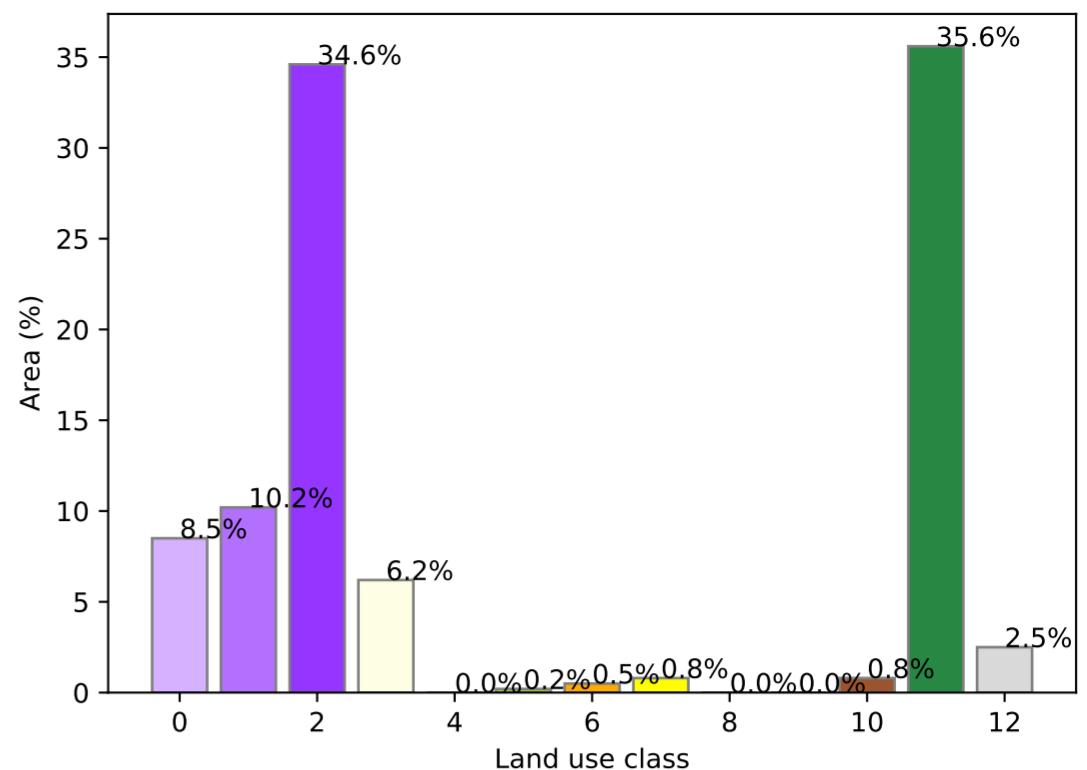
Land use and forest cover

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

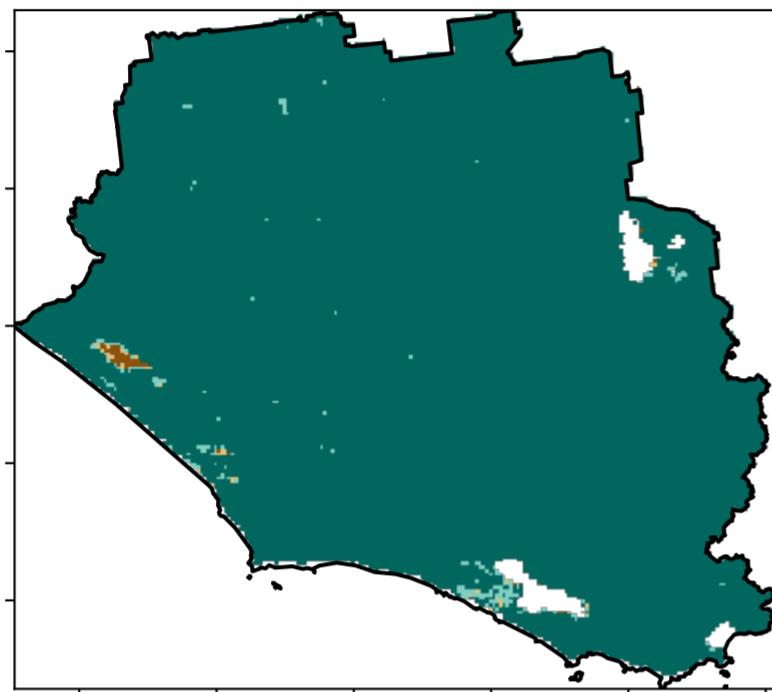


Legend with land class forest cover and number, i.e. Forests is 12	
1 Conservation and natural environments - Non-forest	
2 Conservation and natural environments - Woodland forest	
3 Conservation and natural environments - Non-Woodland forest	
4 Agriculture - Grazing - Non-forest	
5 Agriculture - Grazing - 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

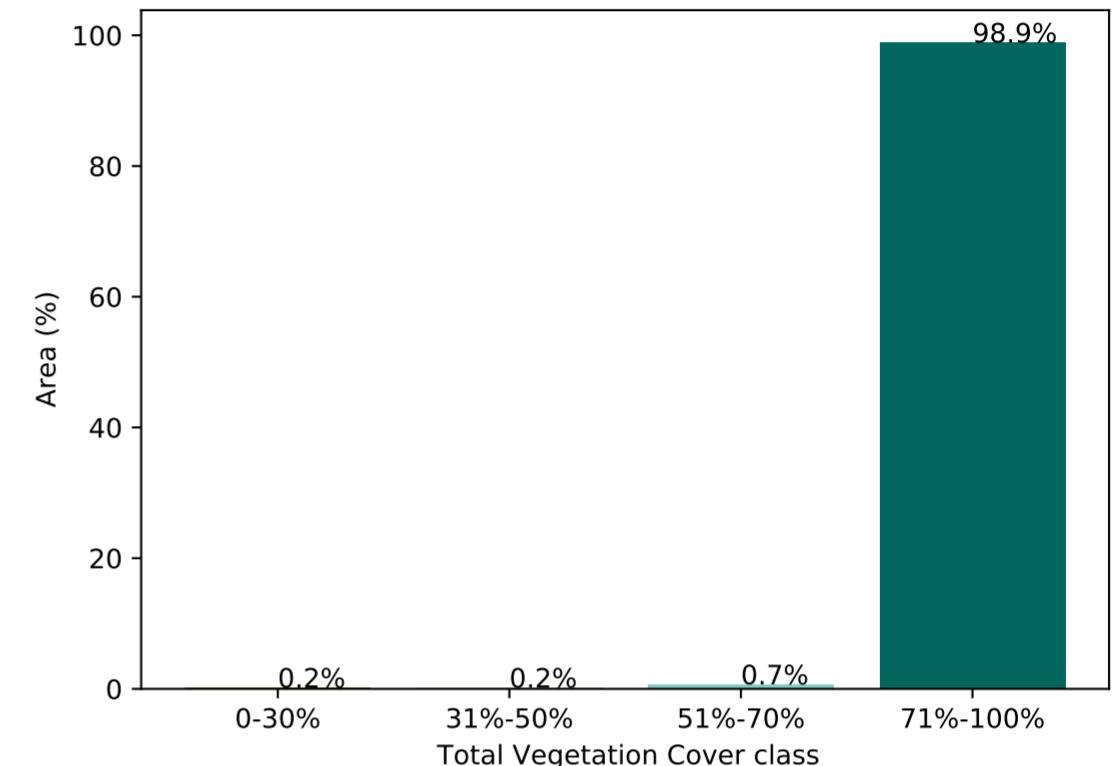


Total Vegetation Cover [%]

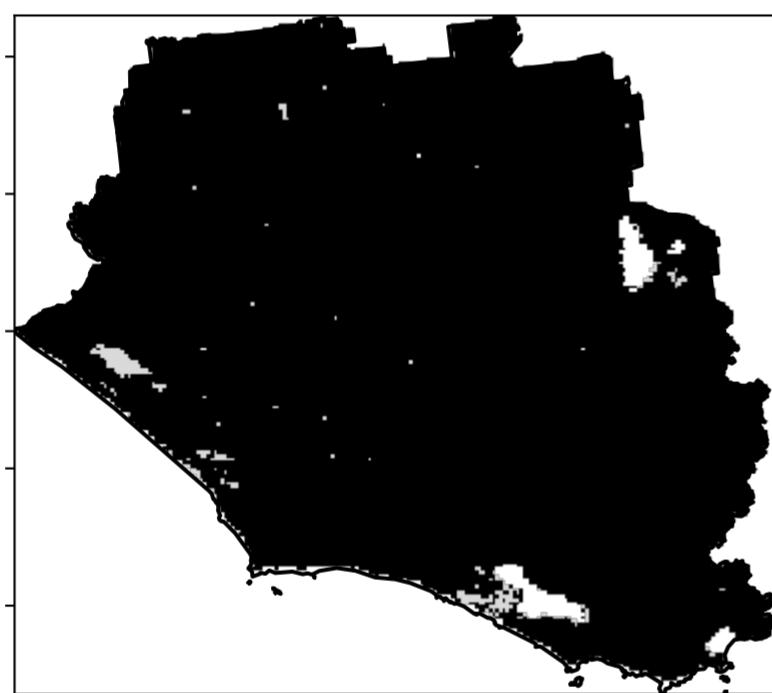


0-30%
31%-50%
51%-70%
71%-100%

Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

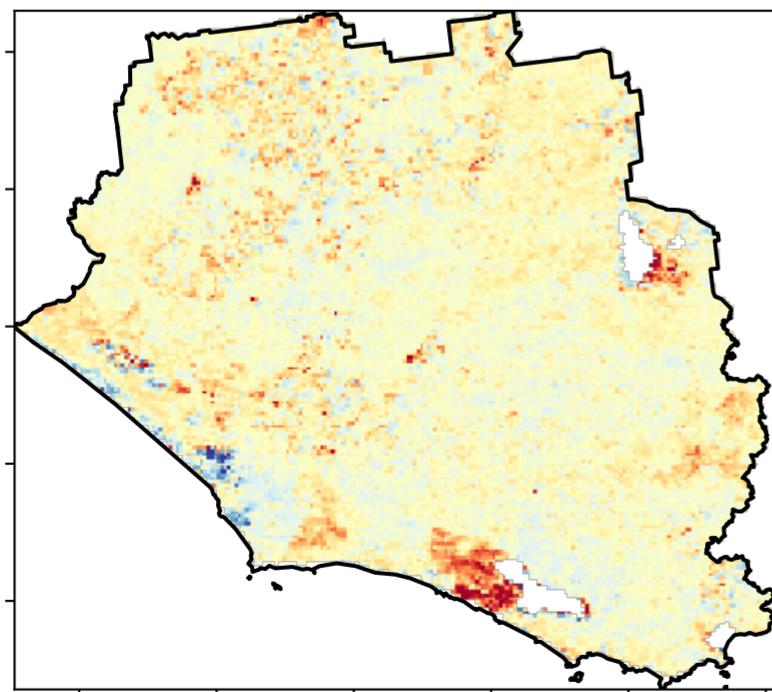


Area not protected	
1.1% of region (7,599 ha)	
Area protected	98.9% of region (683,251 ha)

% Area protected from wind erosion (>50%)

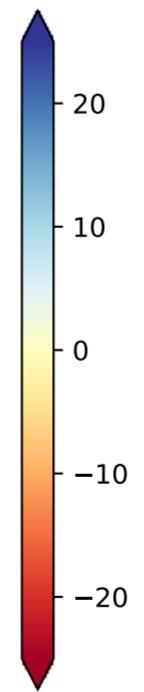


Total Vegetation Cover Anomaly [%]

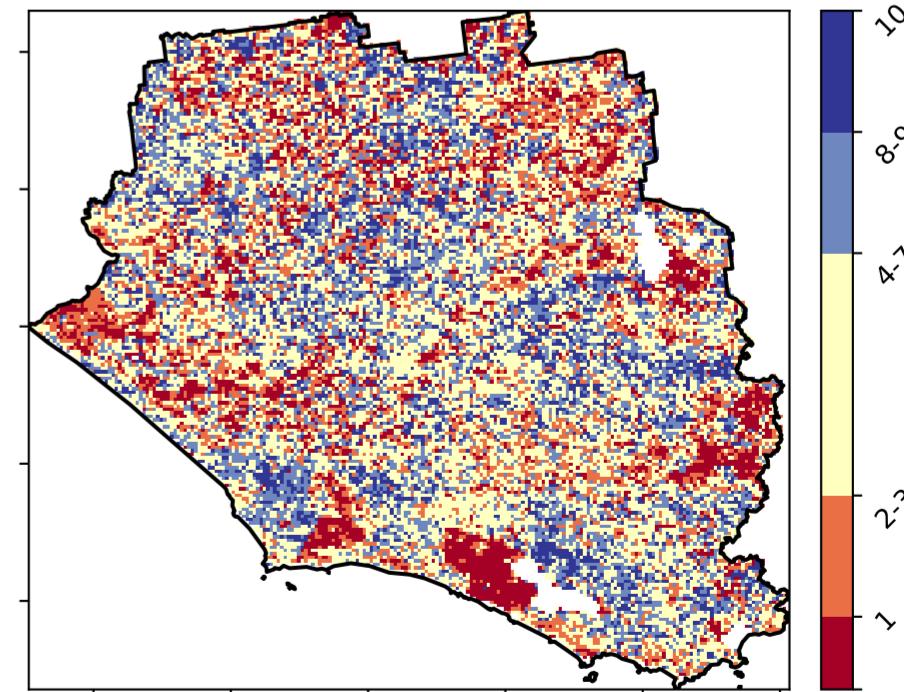


Anomaly shows how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.

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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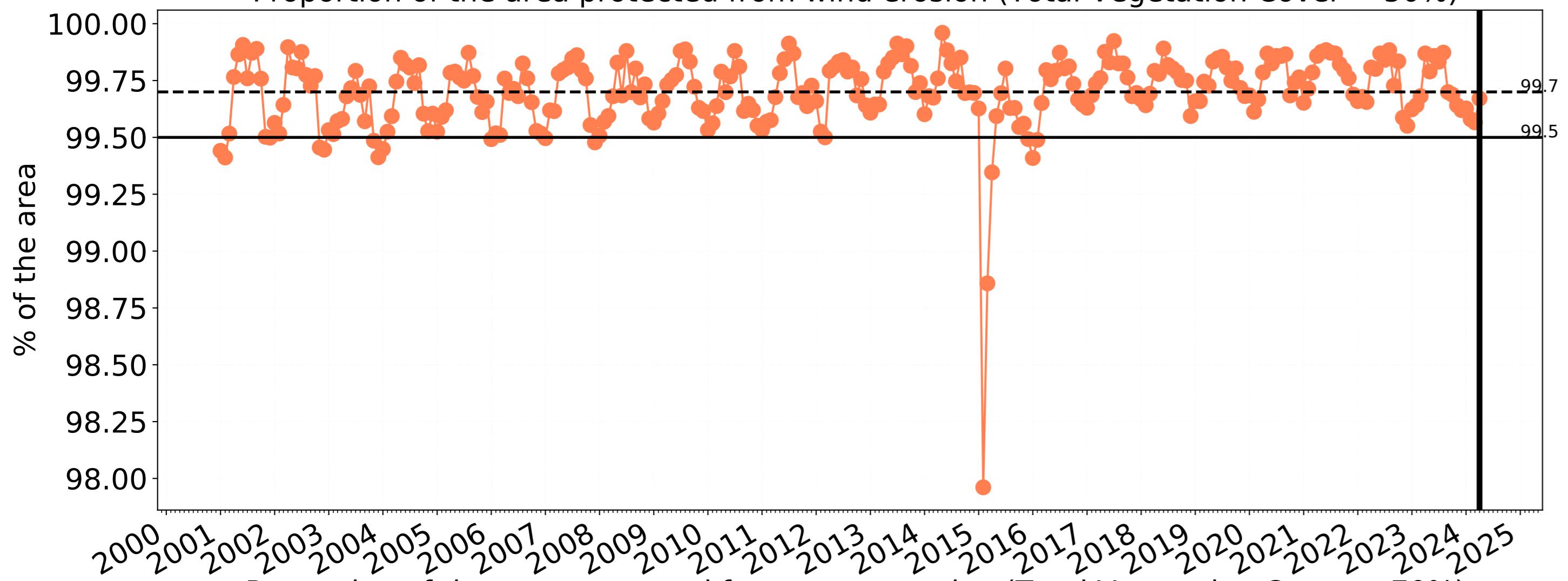
Ecosystem Research Infrastructure



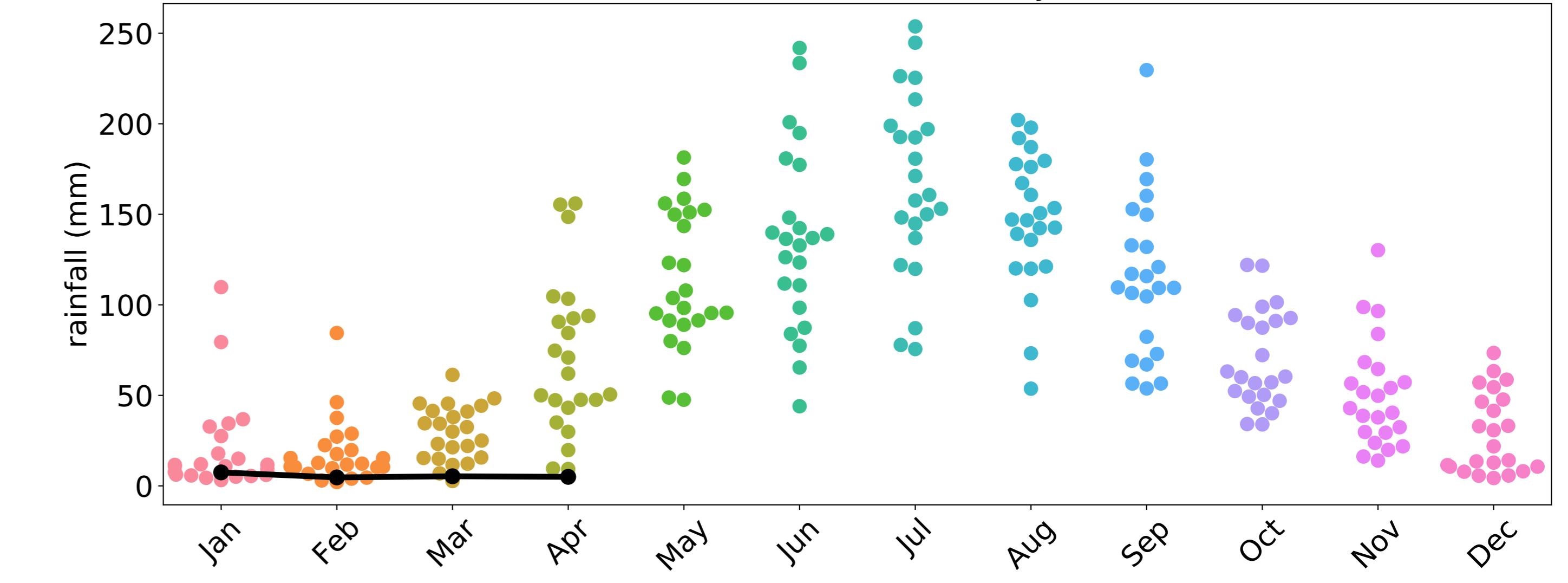
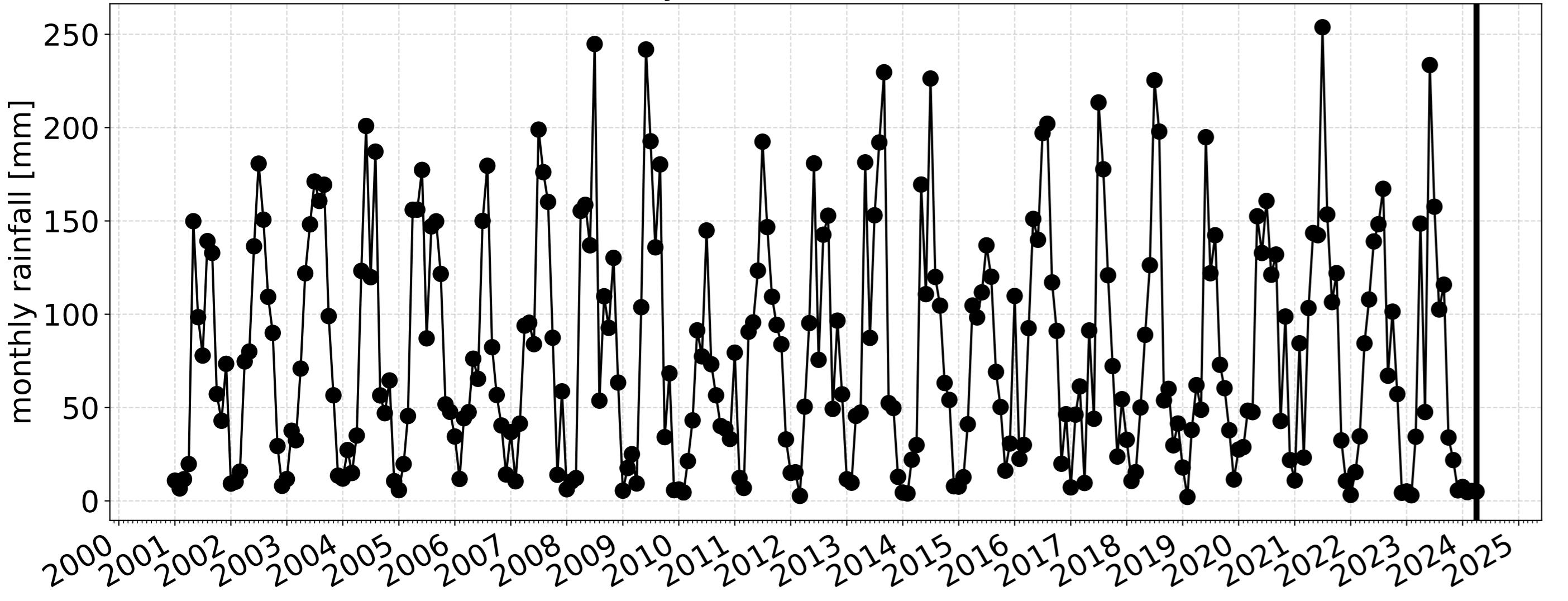
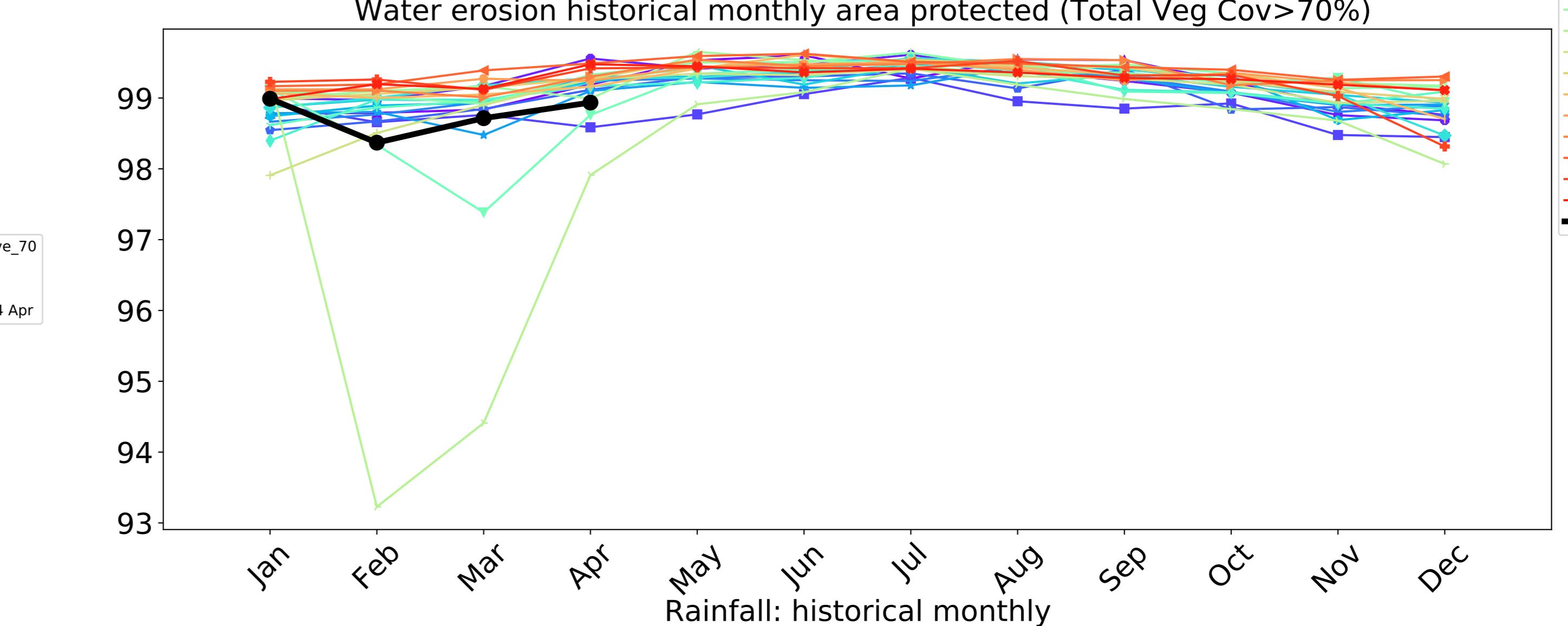
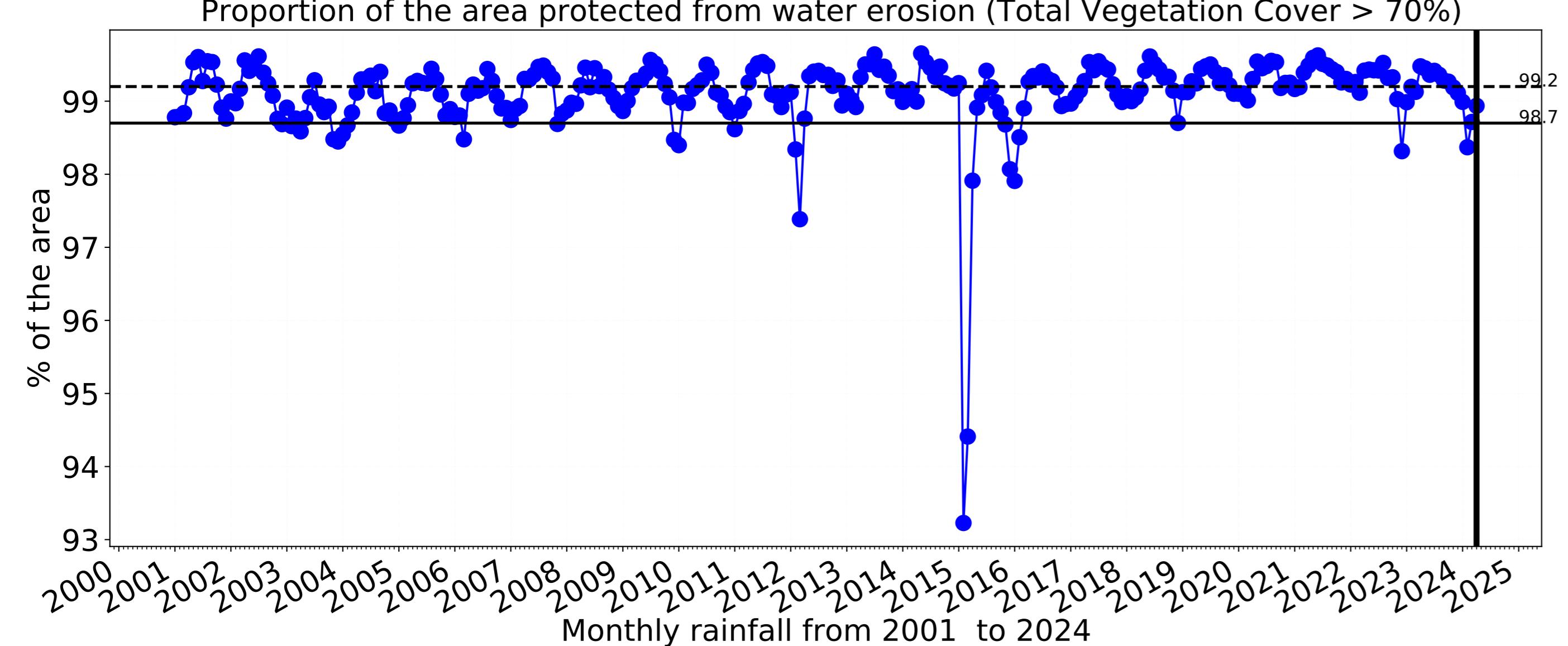
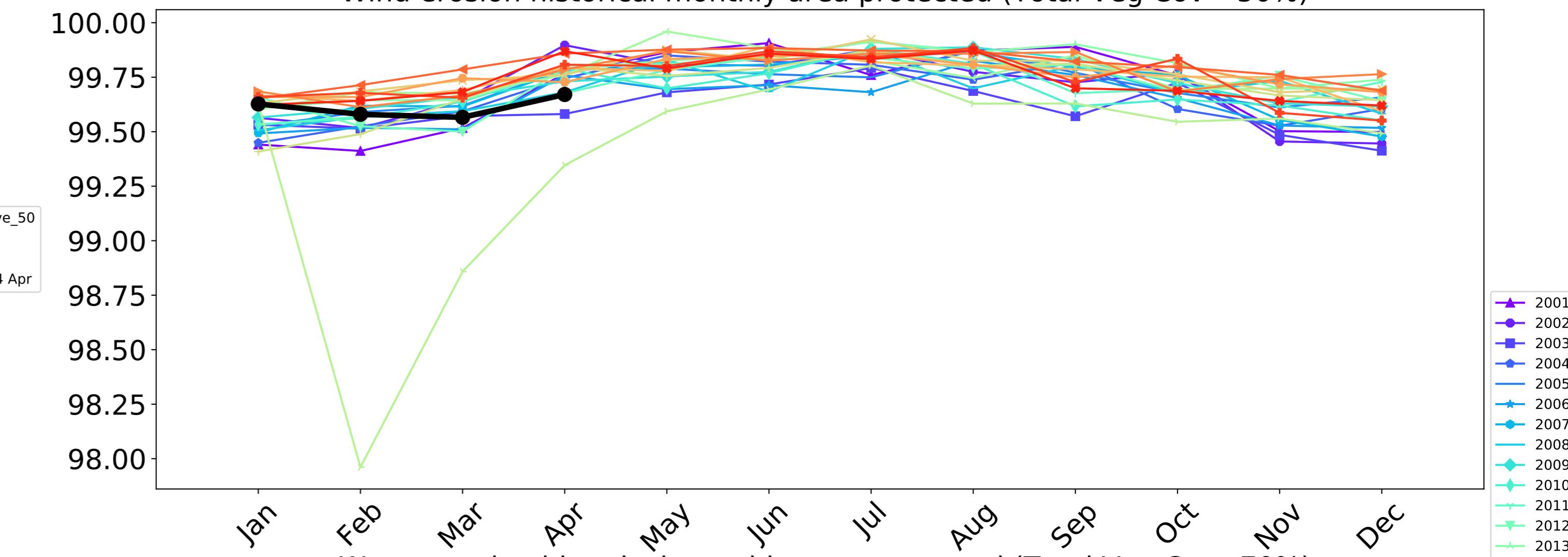
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Programme



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



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



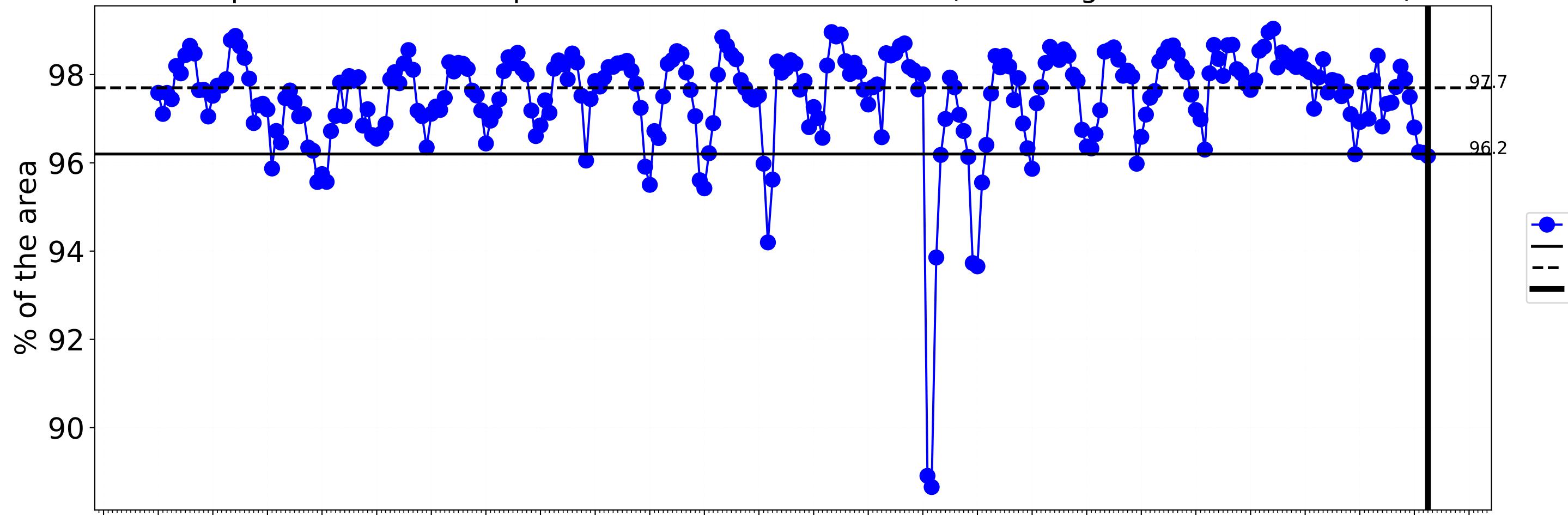
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Ecosystem Research Infrastructure



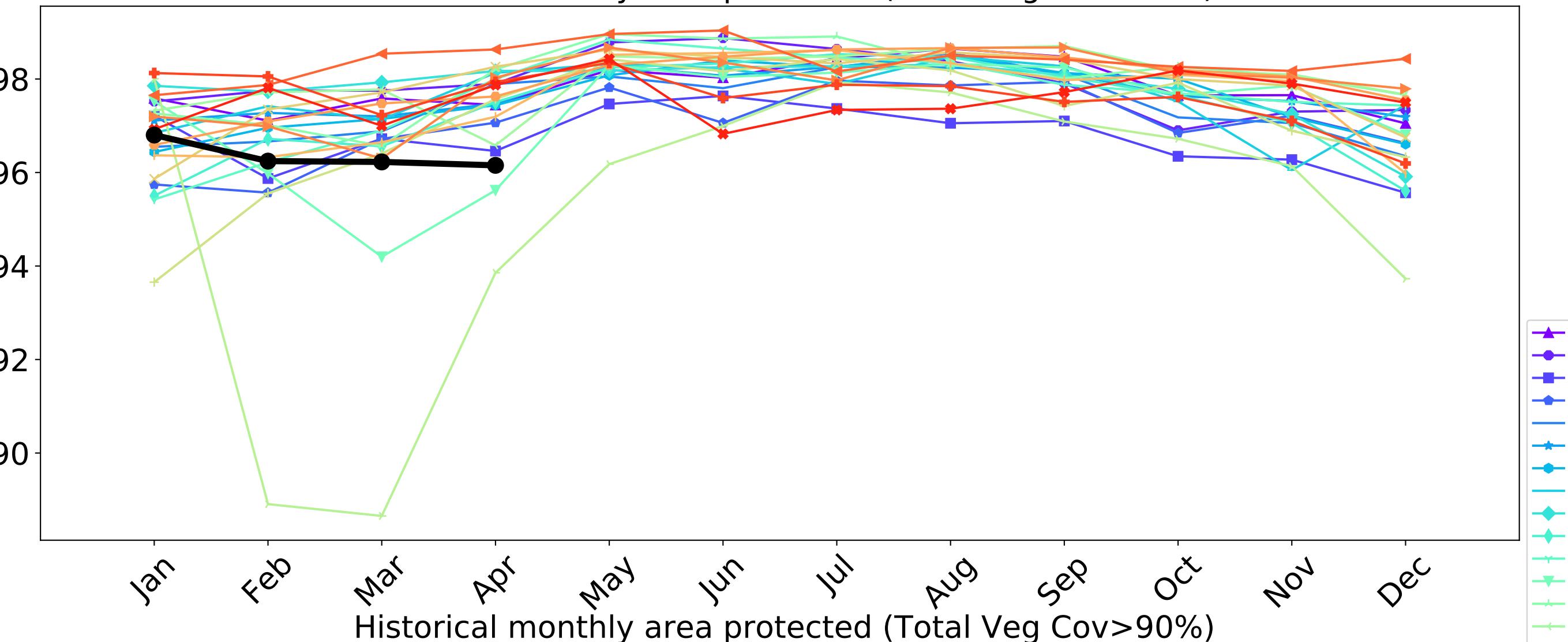
National  
Landcare  
Programme



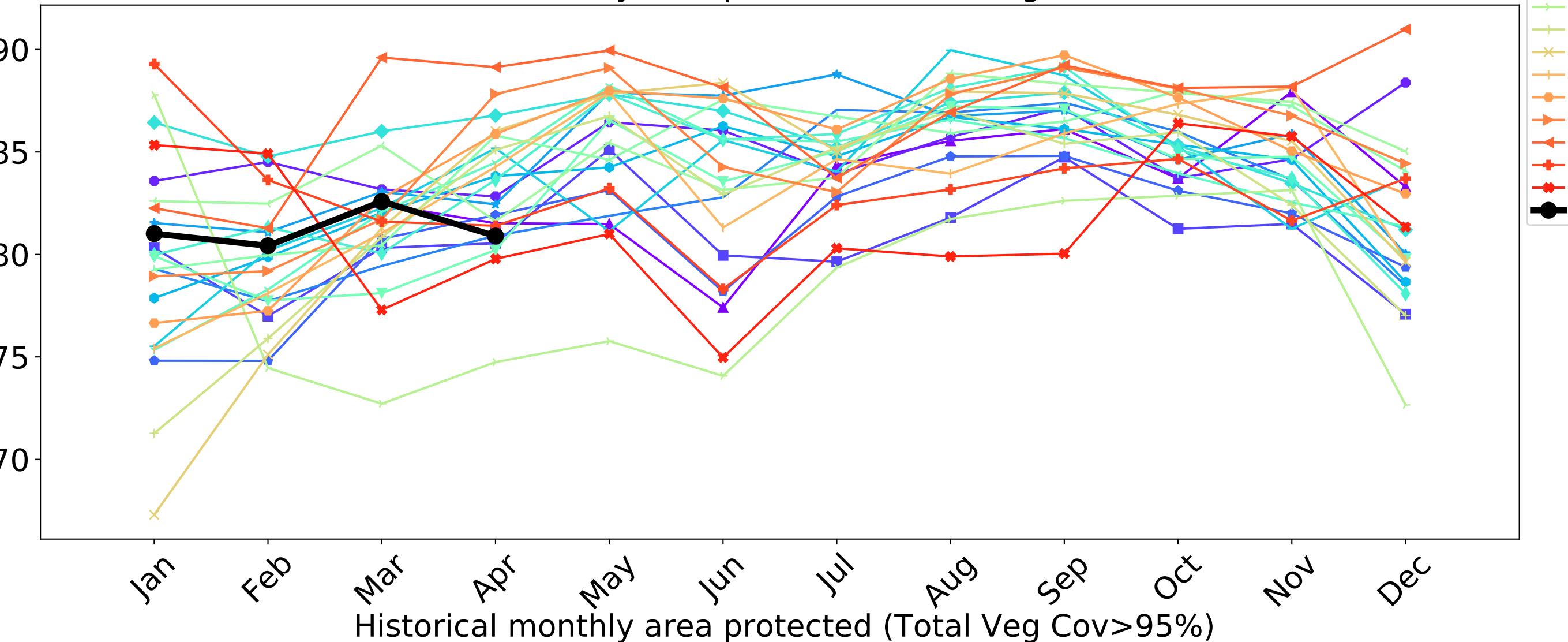
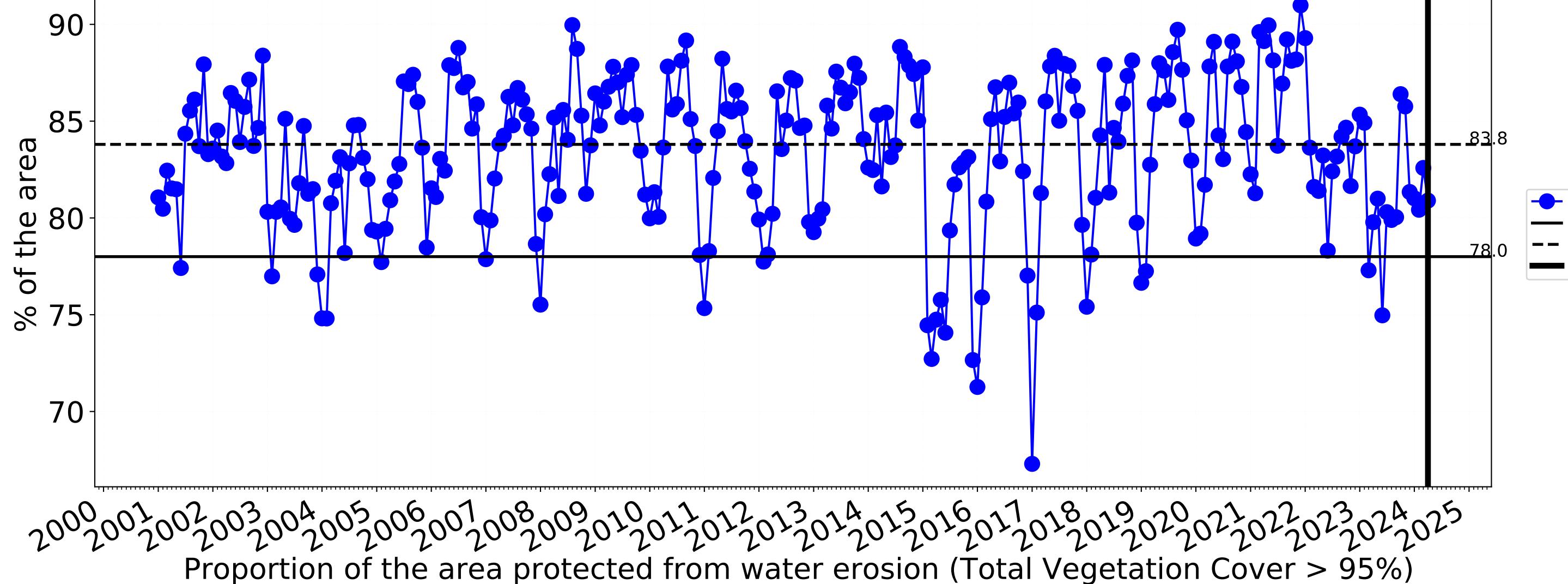
Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



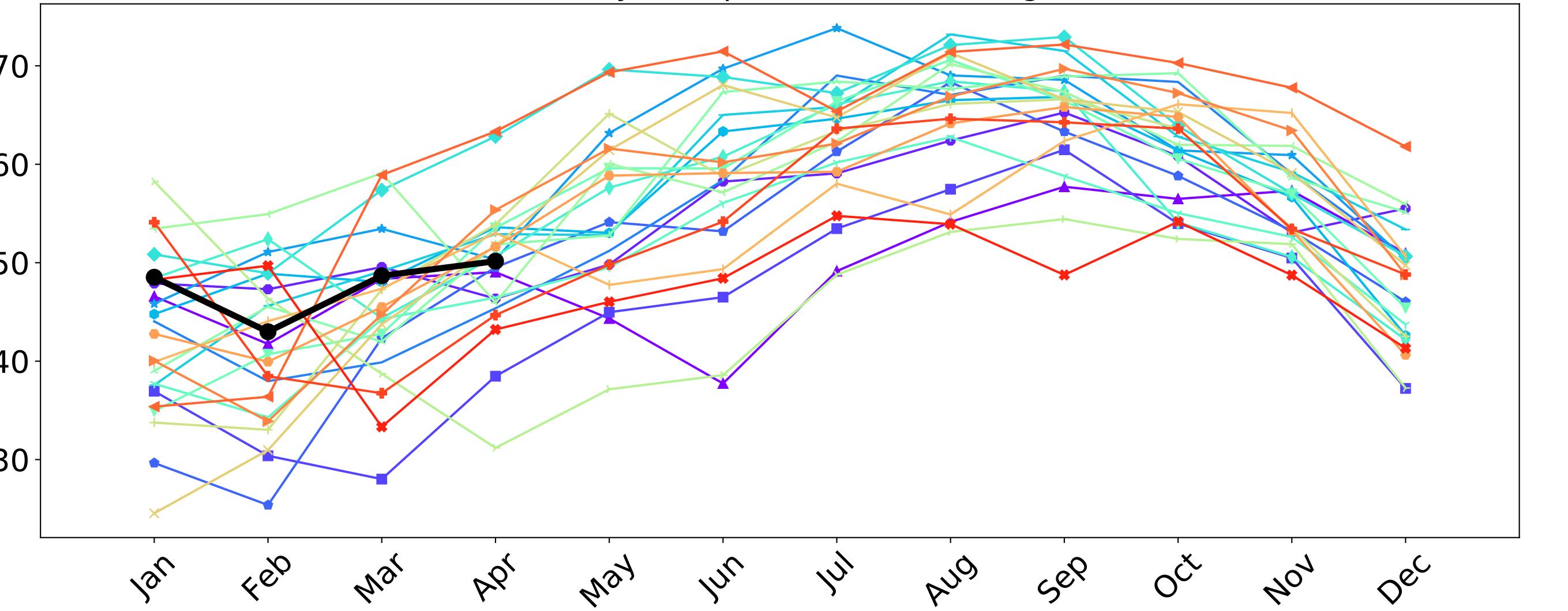
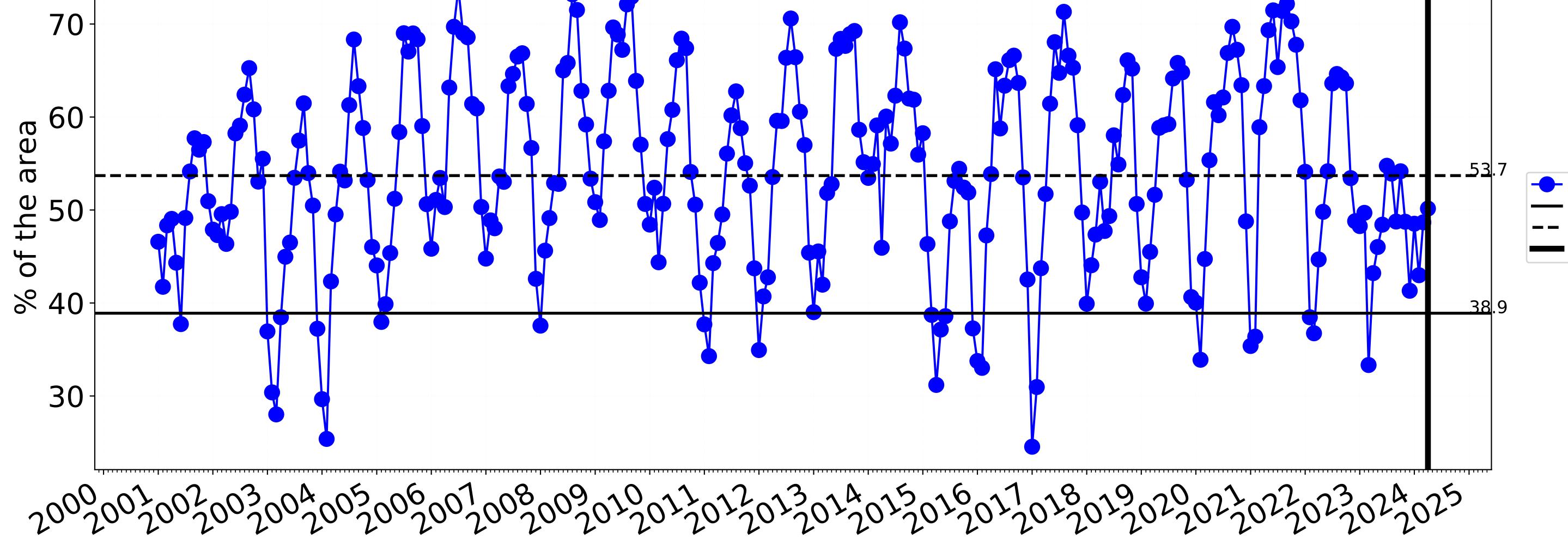
Historical monthly area protected (Total Veg Cov>80%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 90%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 95%)



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Ecosystem Research Infrastructure



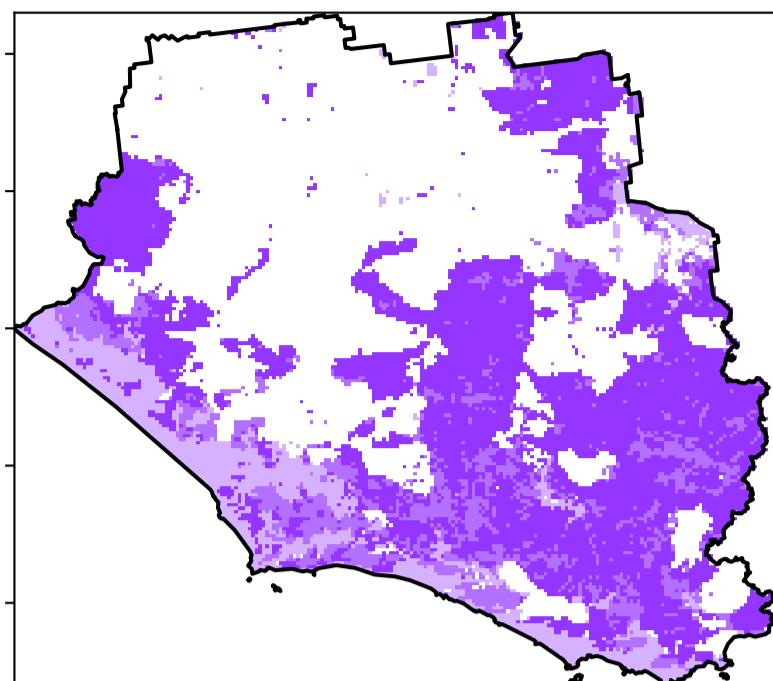
National Landcare Programme



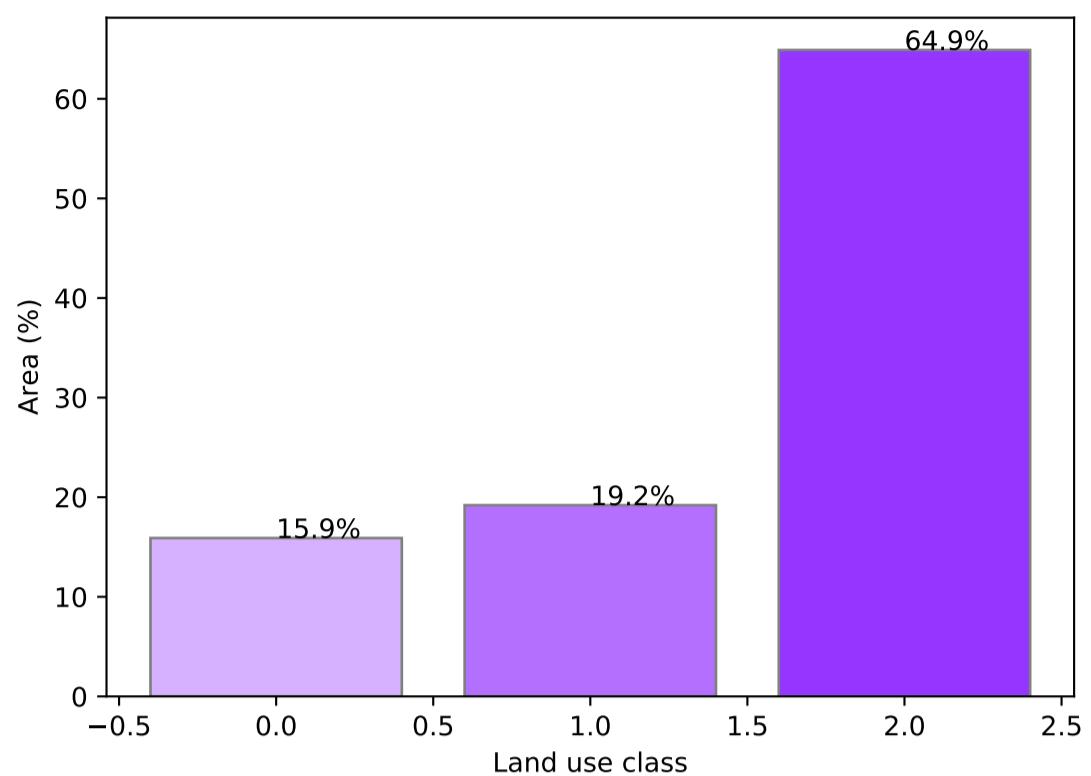
# Conservation and natural environments

**Land use and forest cover**

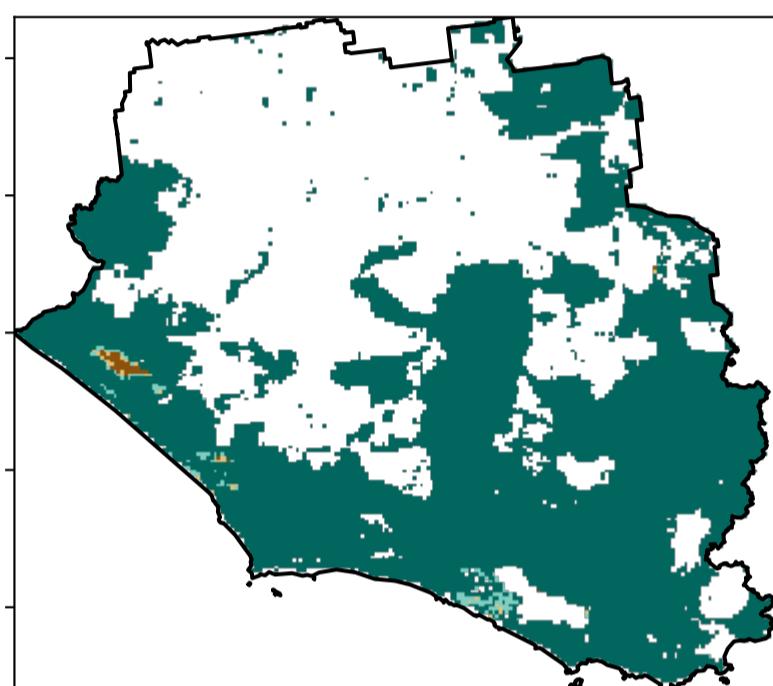
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



**Proportion of each land class in area**

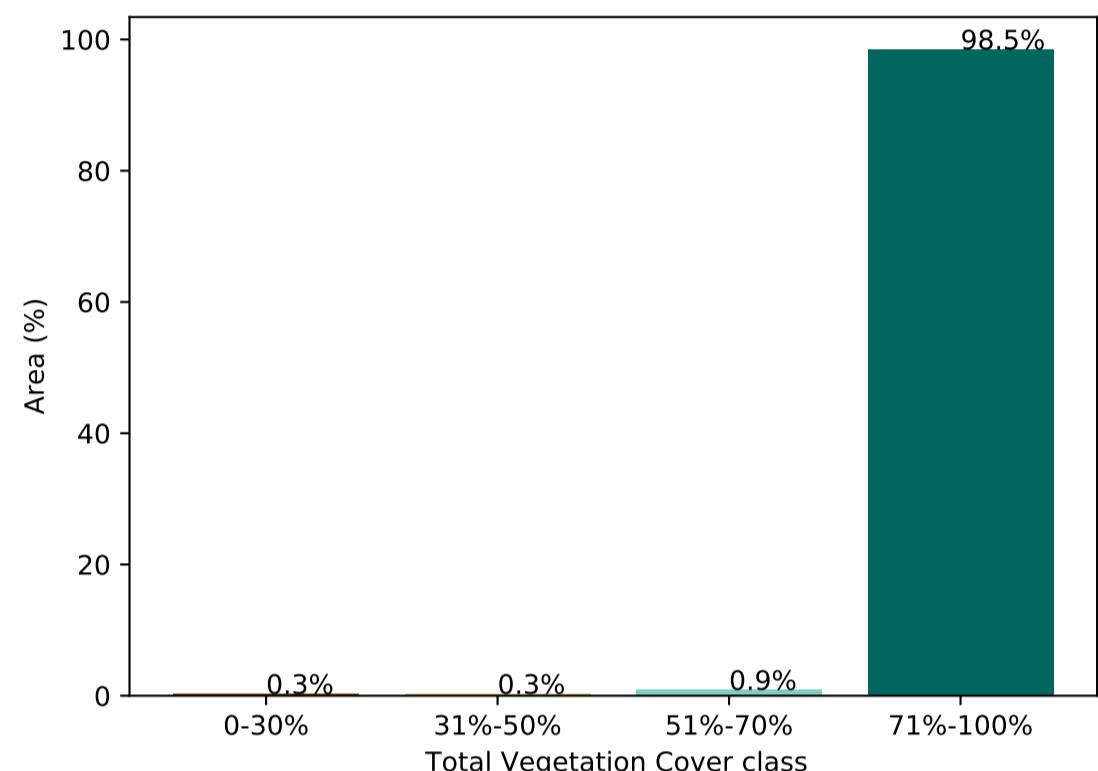


**Total Vegetation Cover [%]**

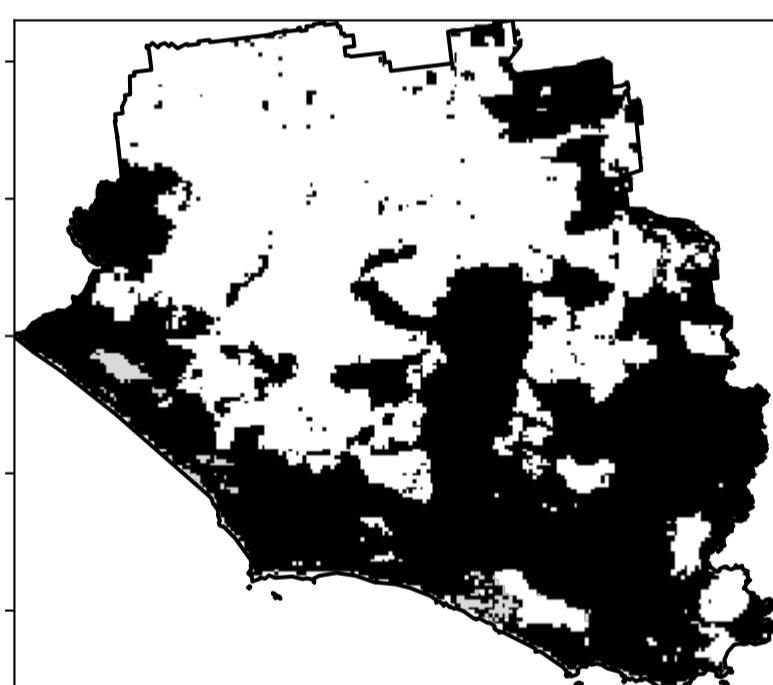


71-100%  
51-70%  
31-50%  
0-30%

**Proportion of vegetation cover class in area**

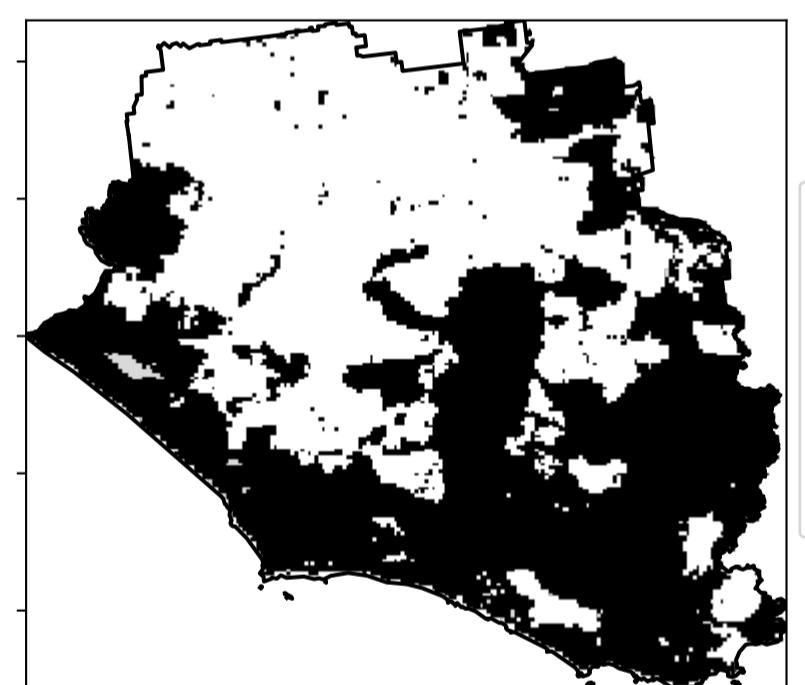


**% Area protected from water erosion (>70%)**



Area not protected  
1.5% of region  
(5,552 ha)  
Area protected  
98.5% of region  
(364,548 ha)

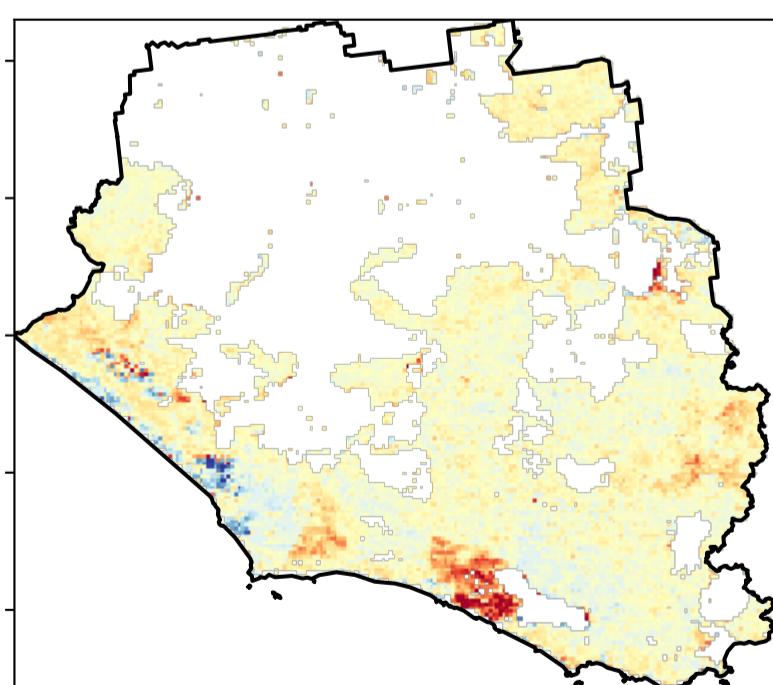
**% Area protected from wind erosion (>50%)**



Area not protected  
1.0% of region  
(3,701 ha)  
Area protected  
99.0% of region  
(366,399 ha)

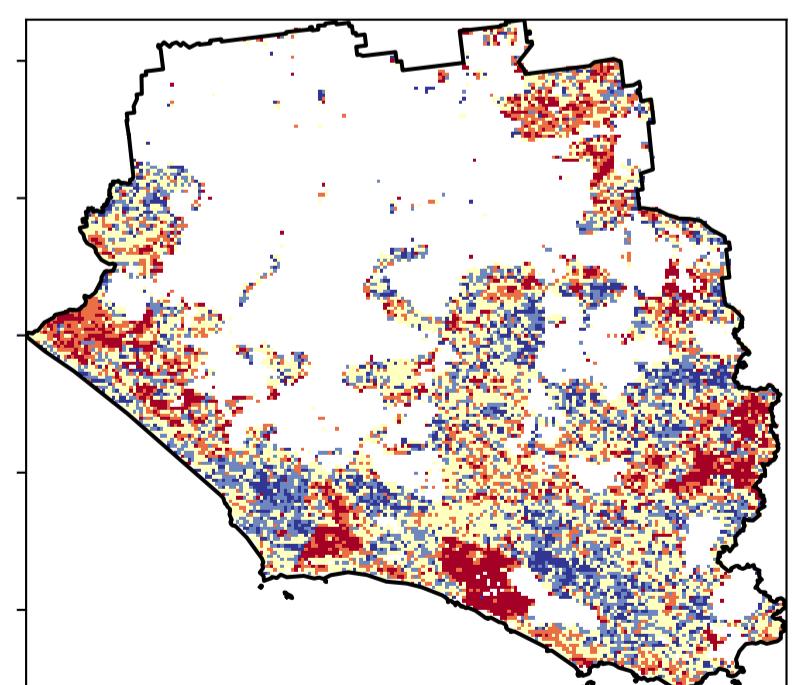
**Total Vegetation Cover Anomaly [%]**

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.



-20  
-10  
0  
10  
20

**Total Vegetation Cover Decile [%]**



1  
2  
3  
4  
5  
6  
7  
8  
9  
10

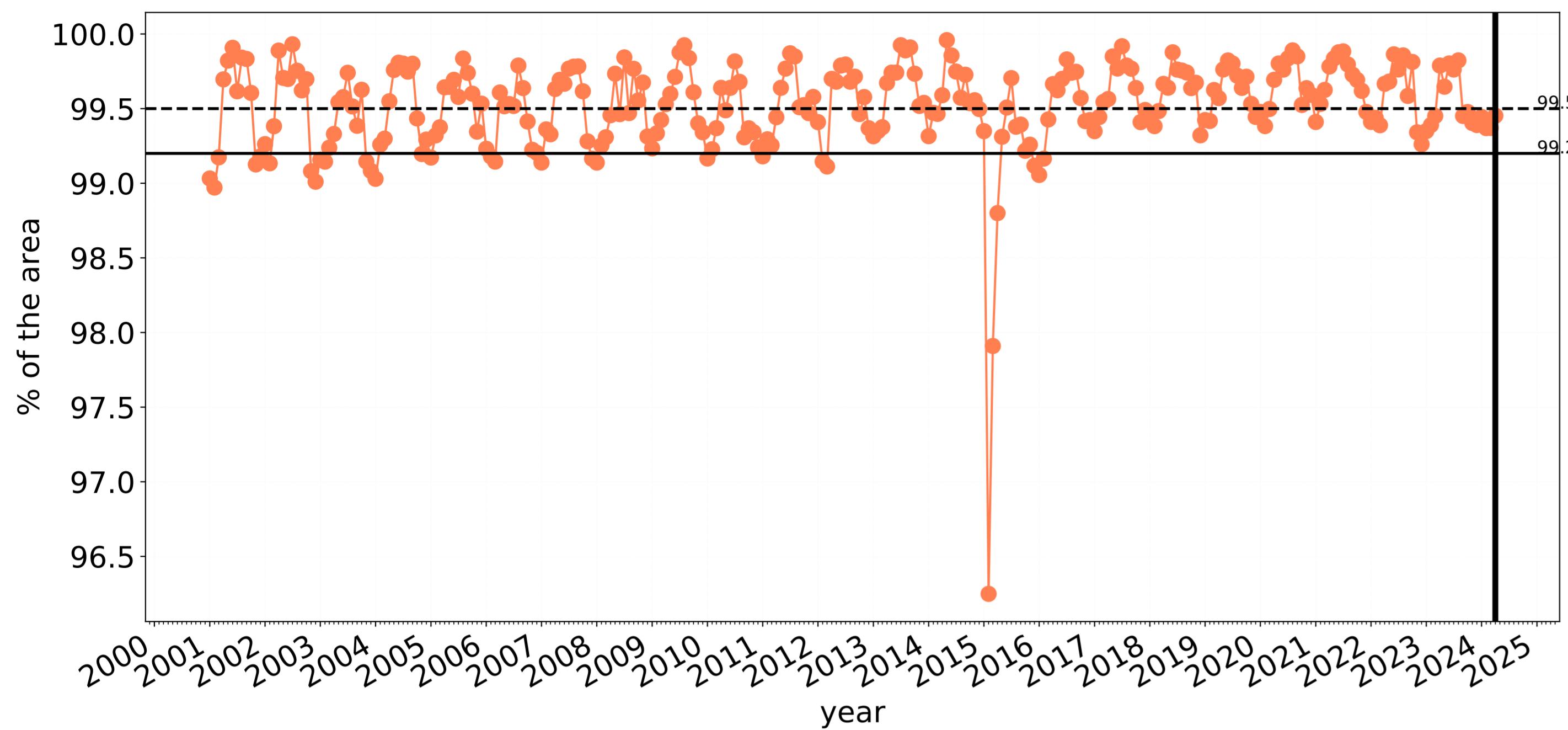


Ecosystem Research Infrastructure

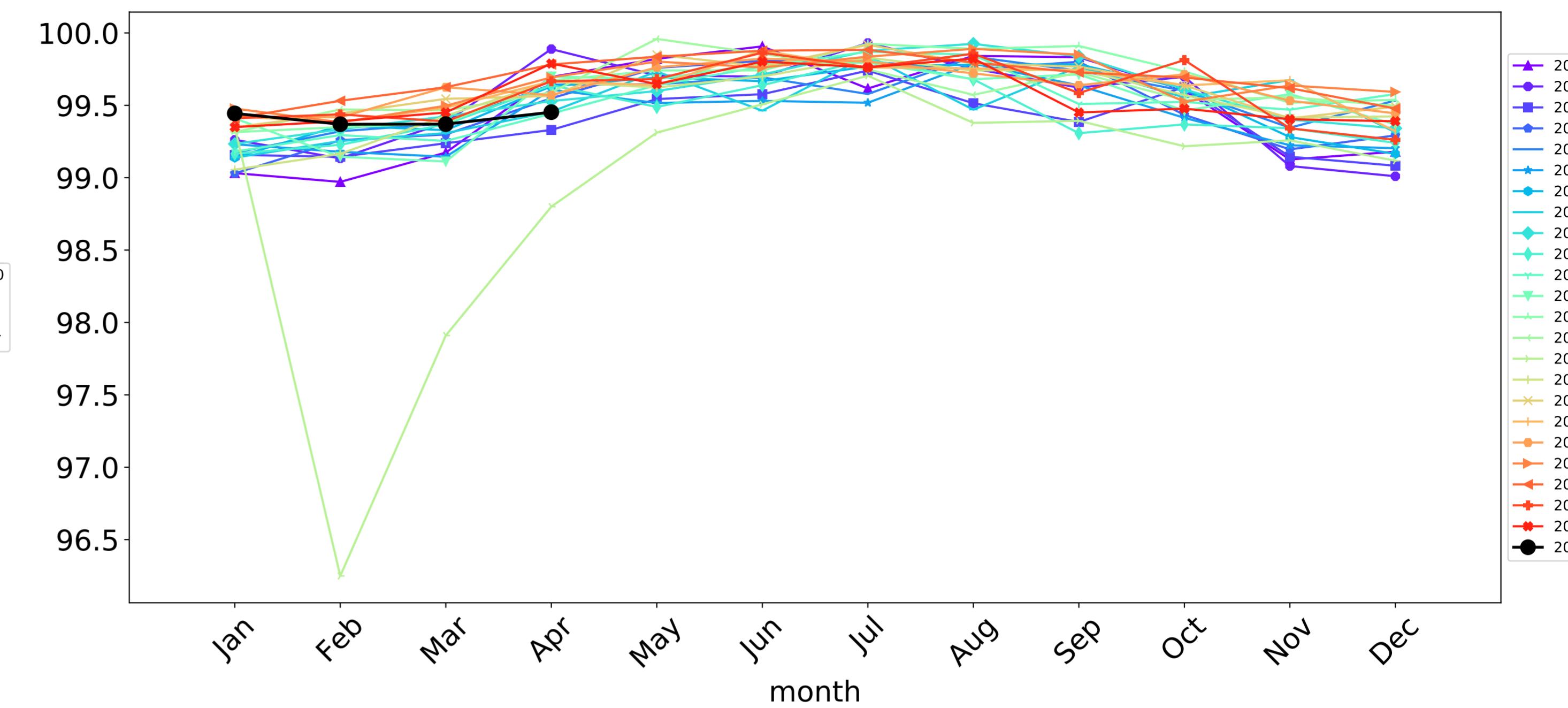


## Conservation and natural environments timeseries

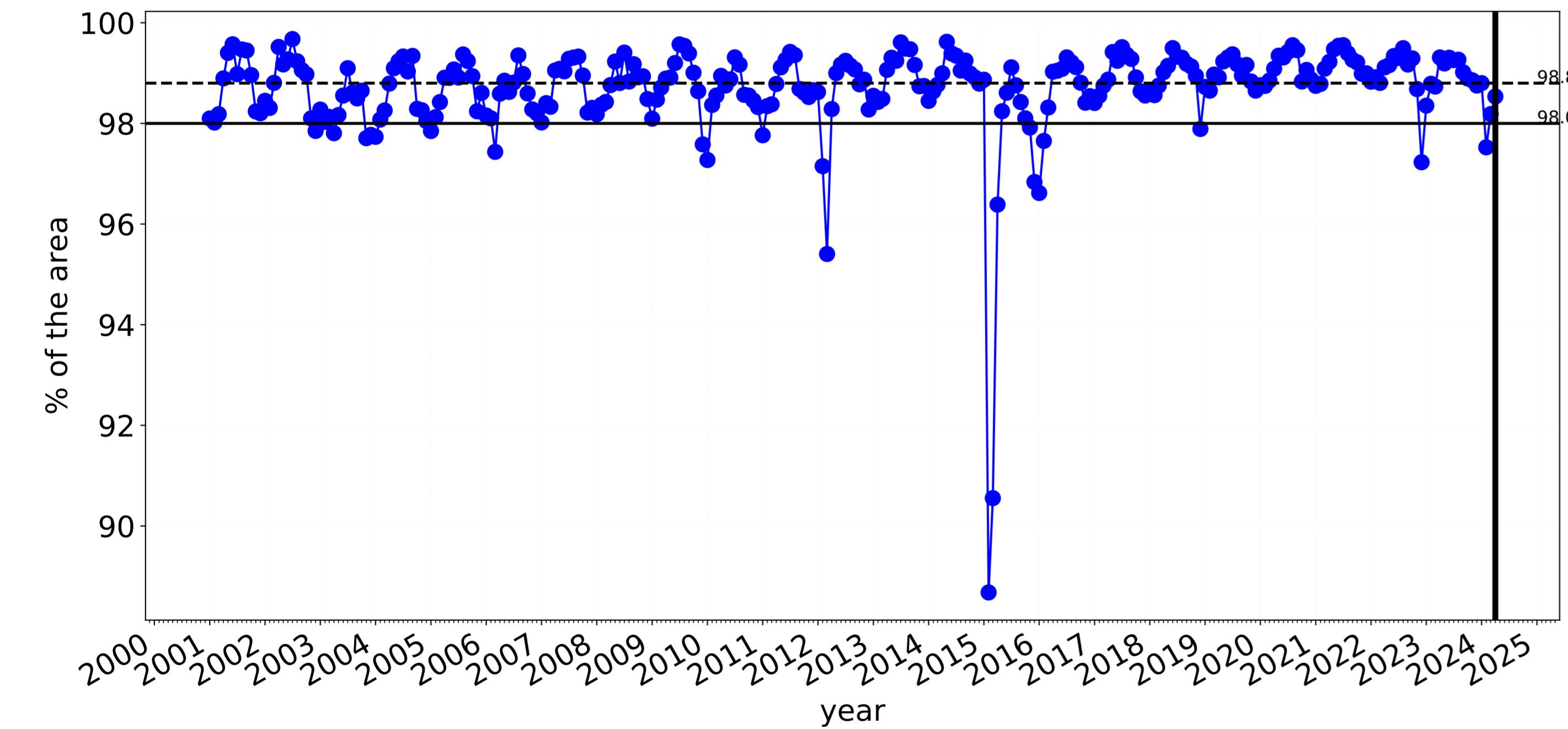
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



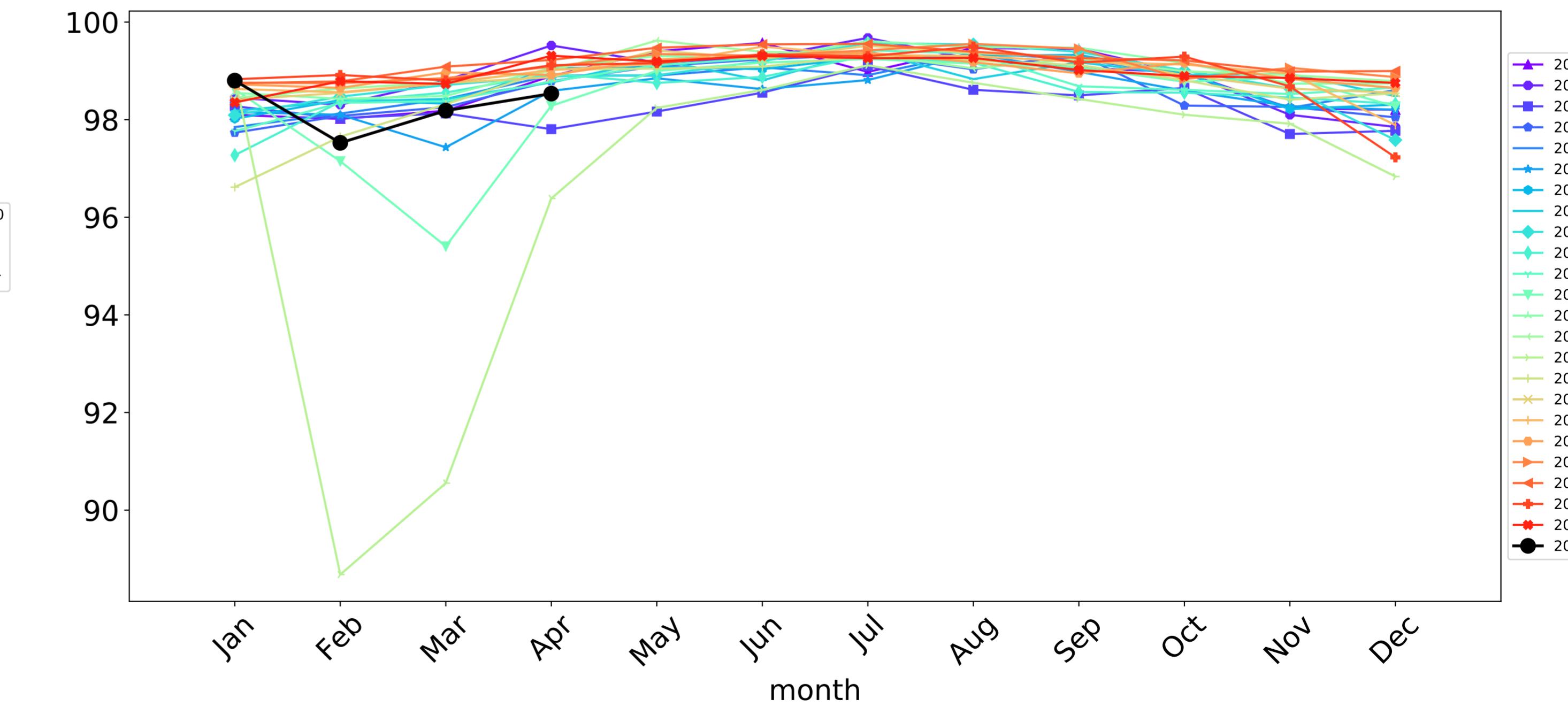
Wind erosion historical monthly area protected (Total Veg Cov >50%)



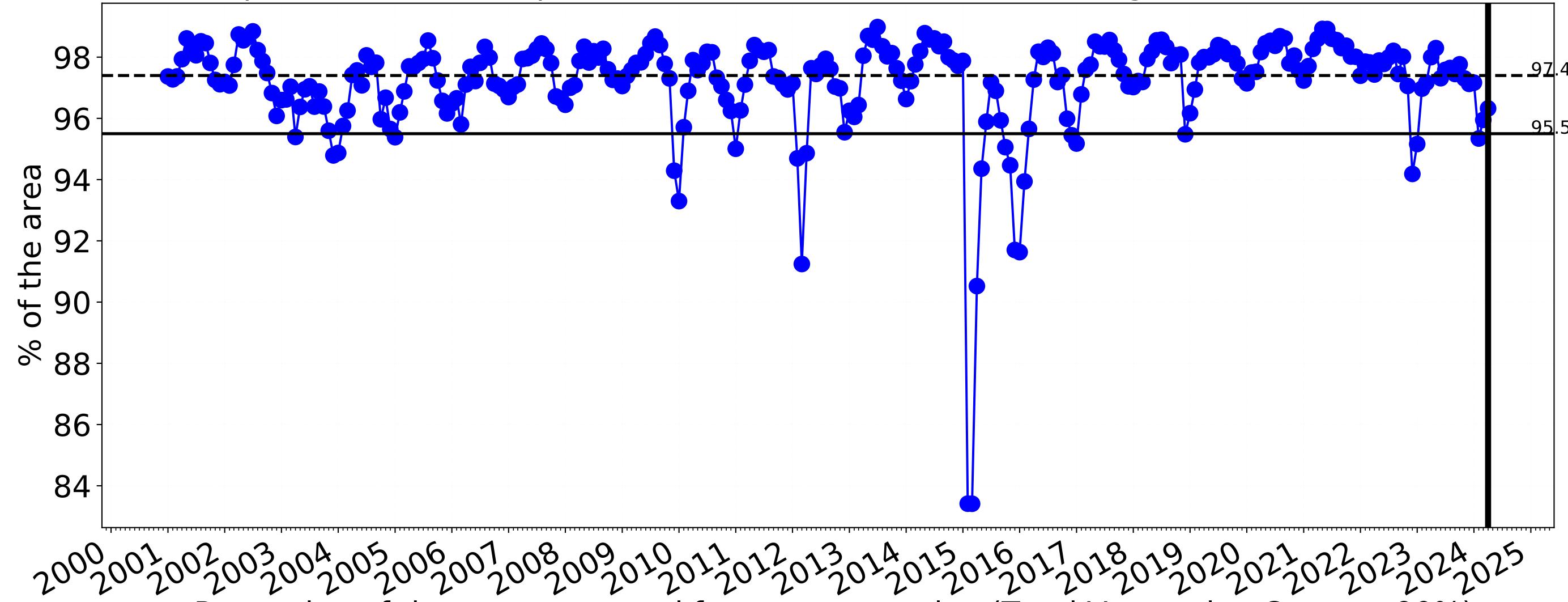
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



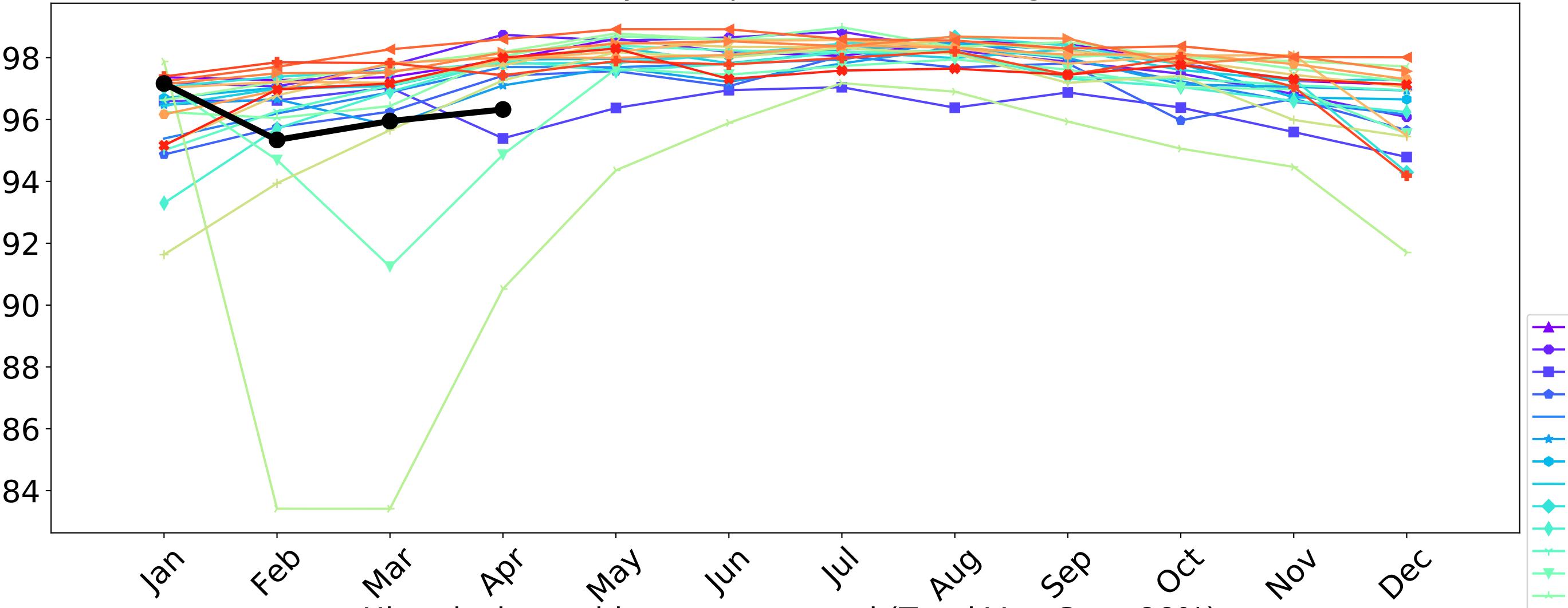
Water erosion historical monthly area protected (Total Veg Cov>70%)



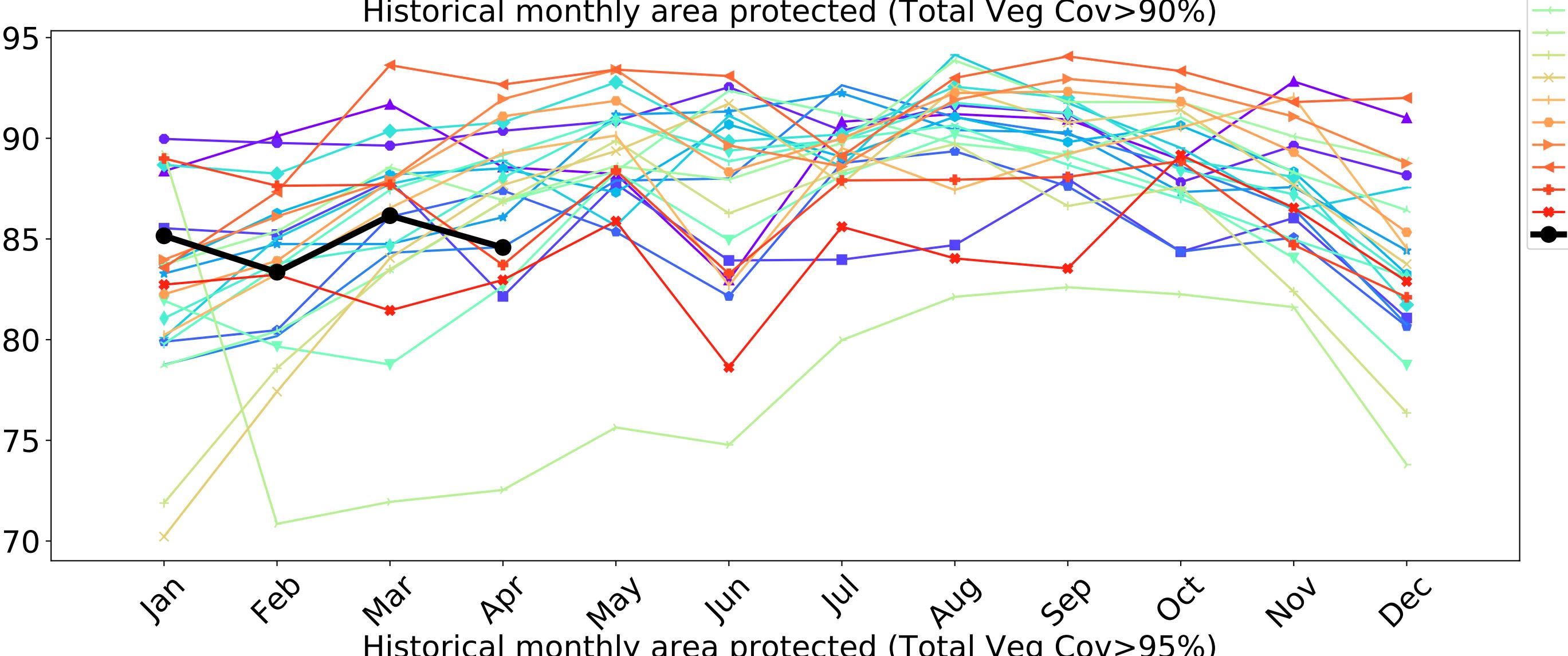
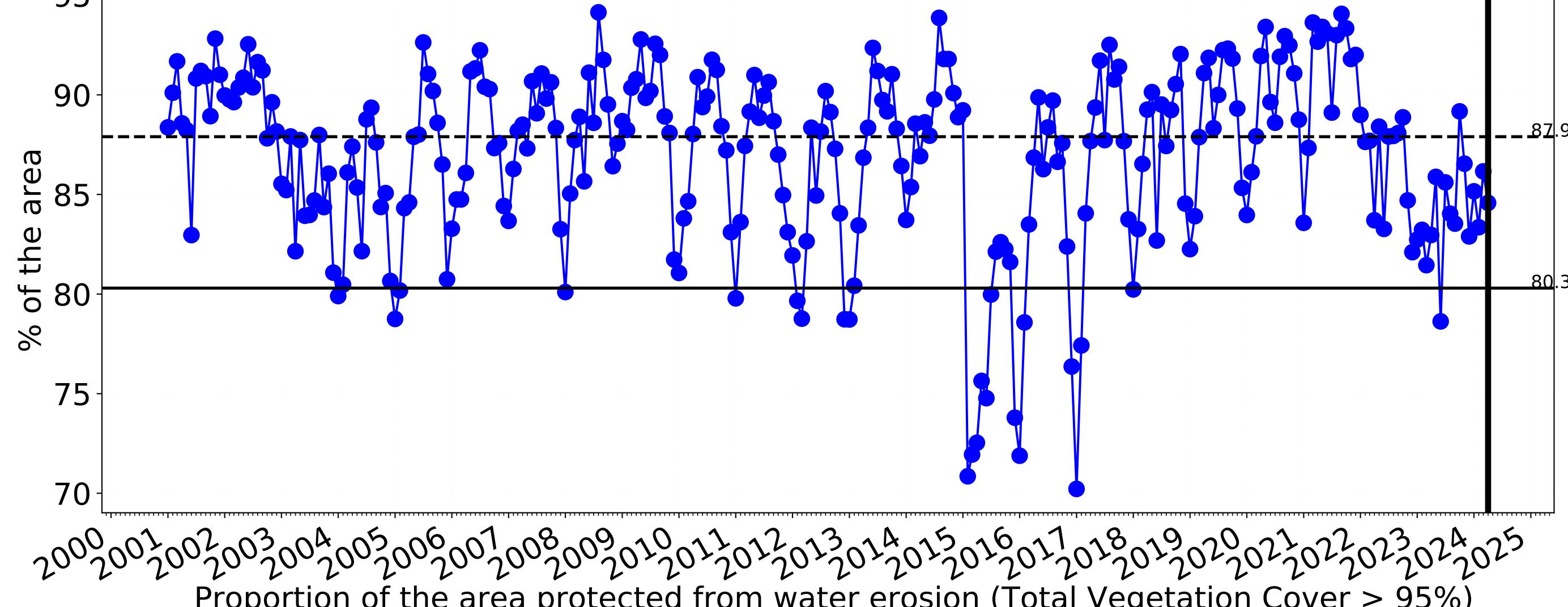
Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



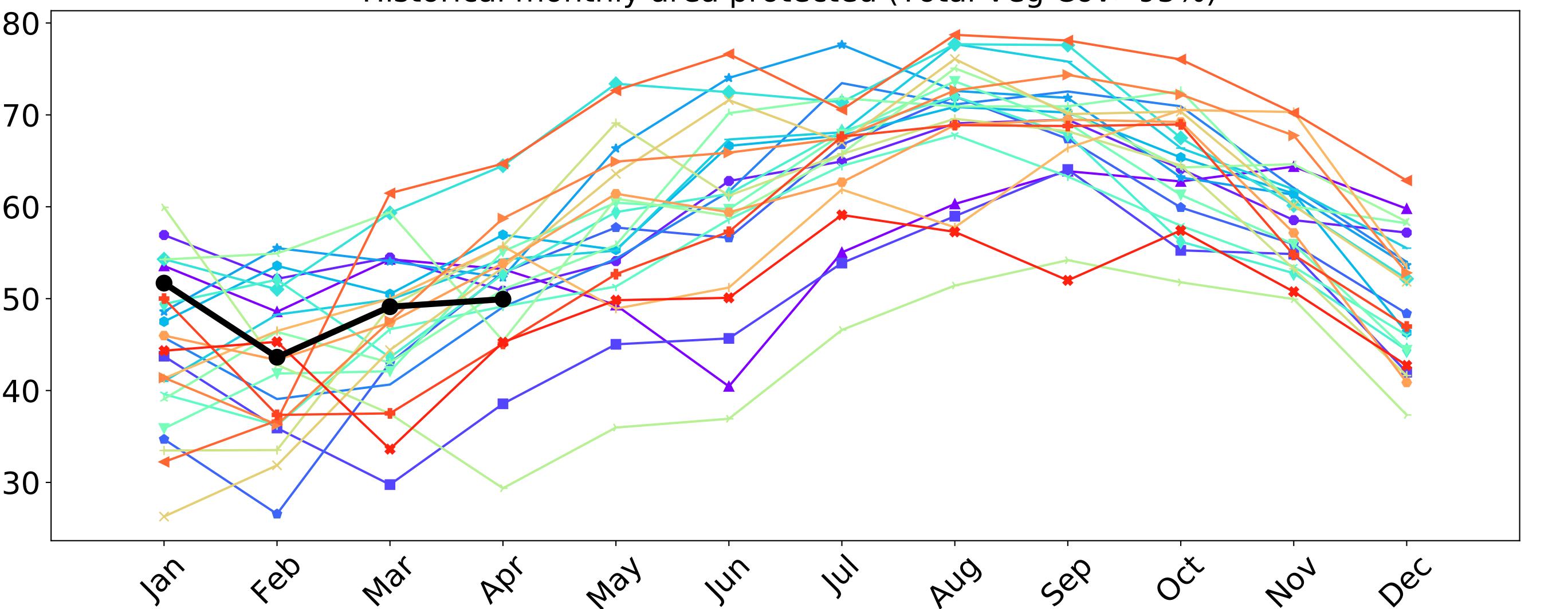
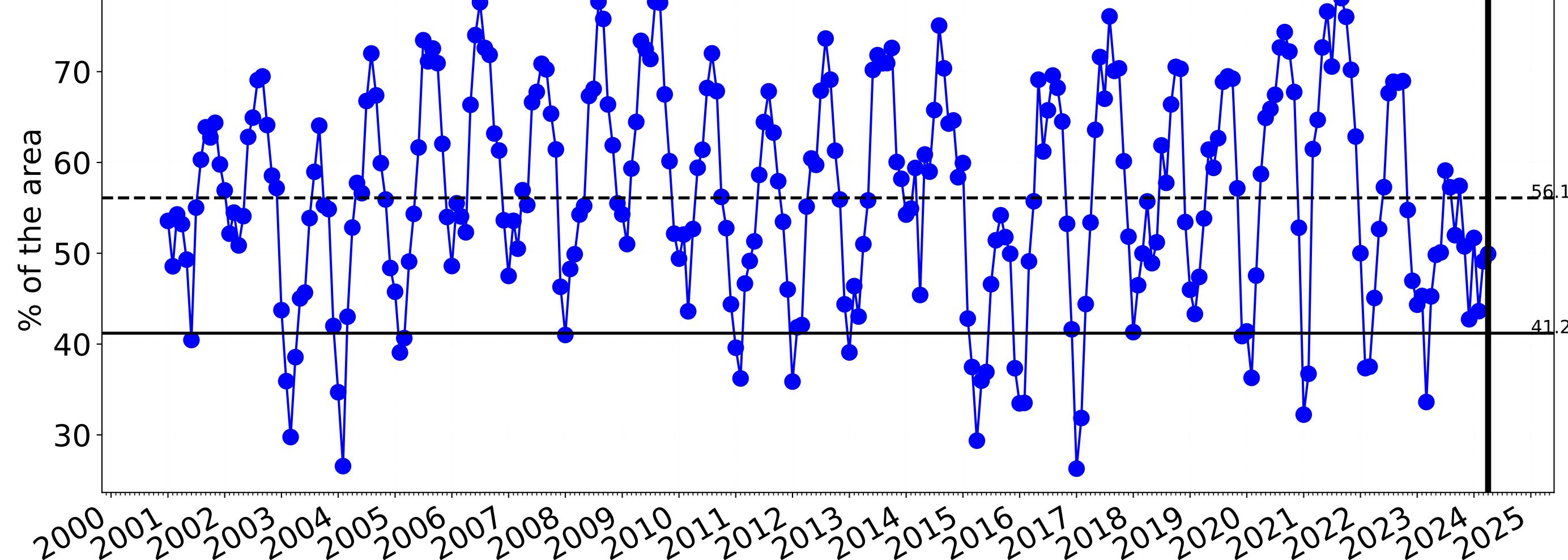
Historical monthly area protected (Total Veg Cov>80%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 90%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 95%)



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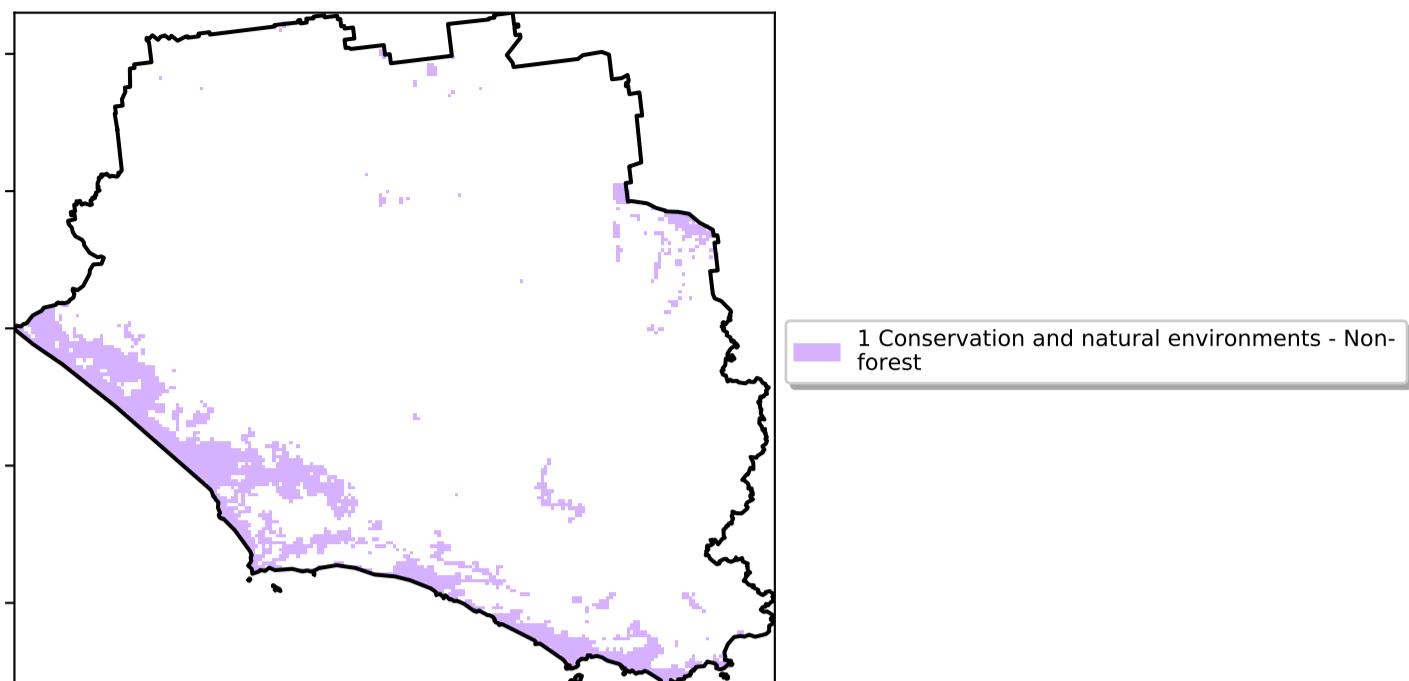
National  
Landcare  
Programme



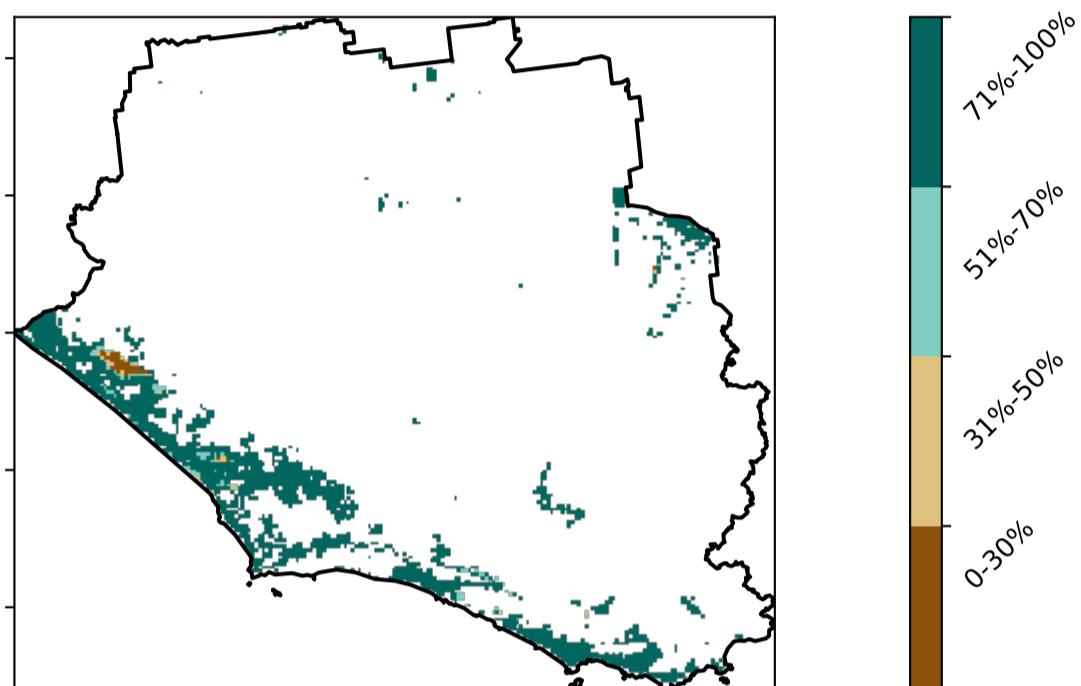
# Conservation and natural environments non forest

**Land use and forest cover**

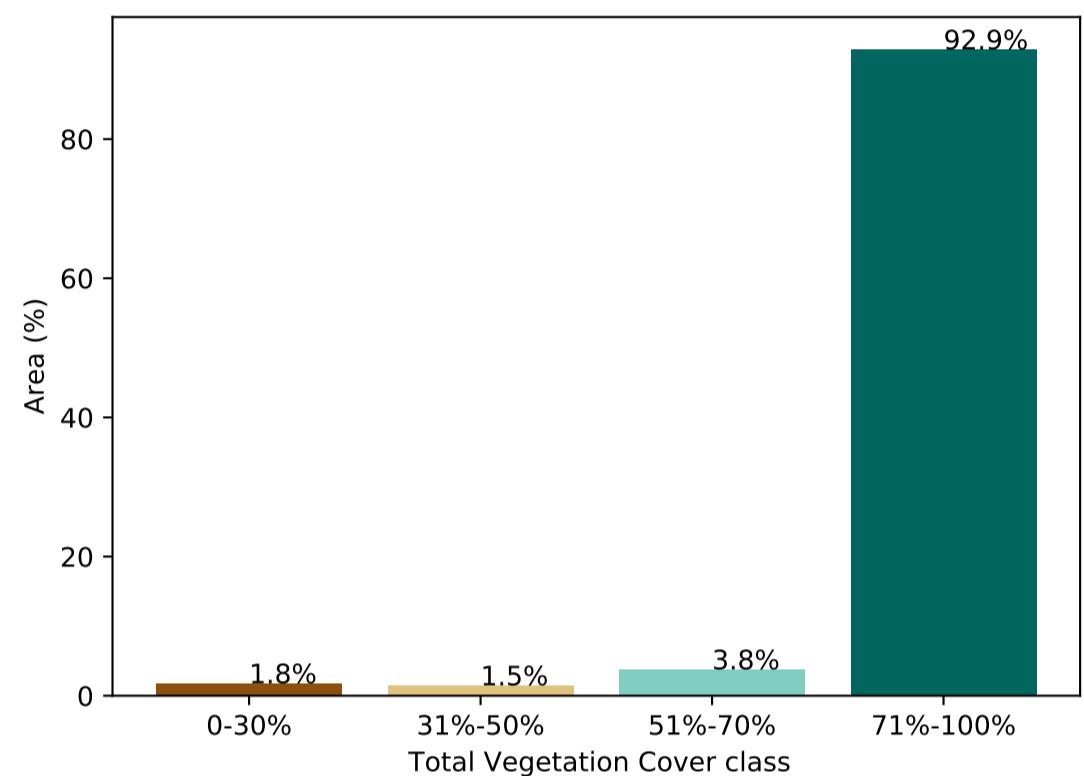
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



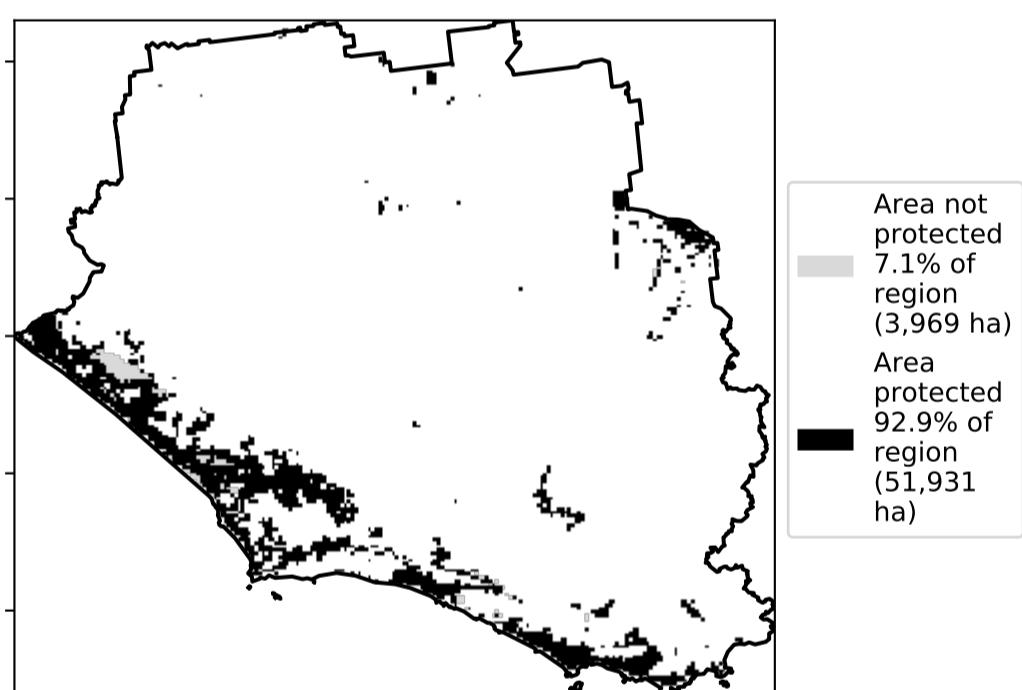
**Total Vegetation Cover [%]**



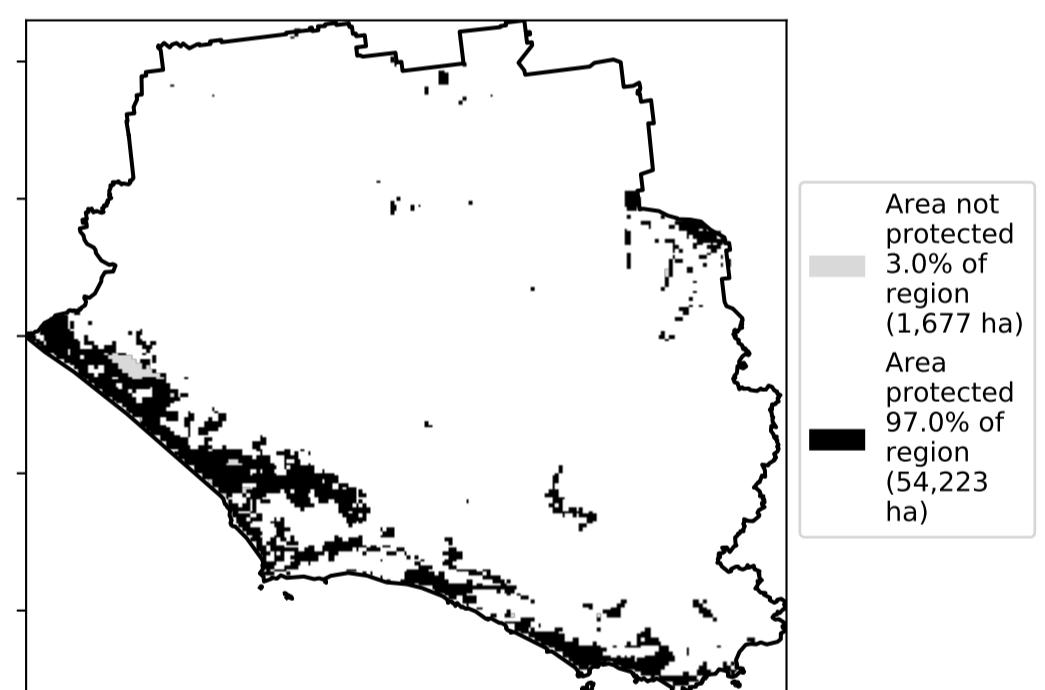
**Proportion of vegetation cover class in area**



**% Area protected from water erosion (>70%)**

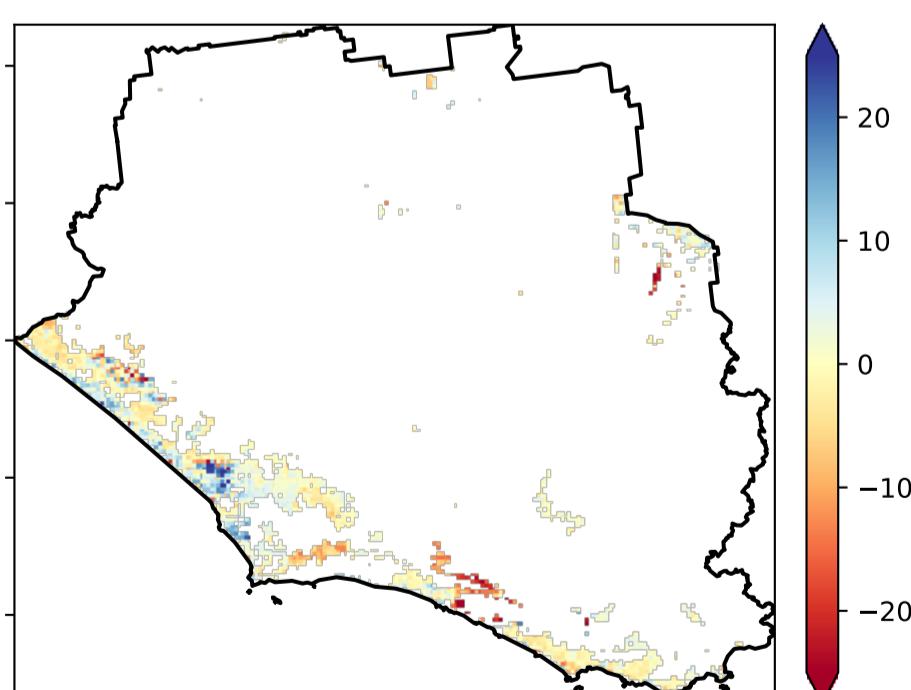


**% Area protected from wind erosion (>50%)**



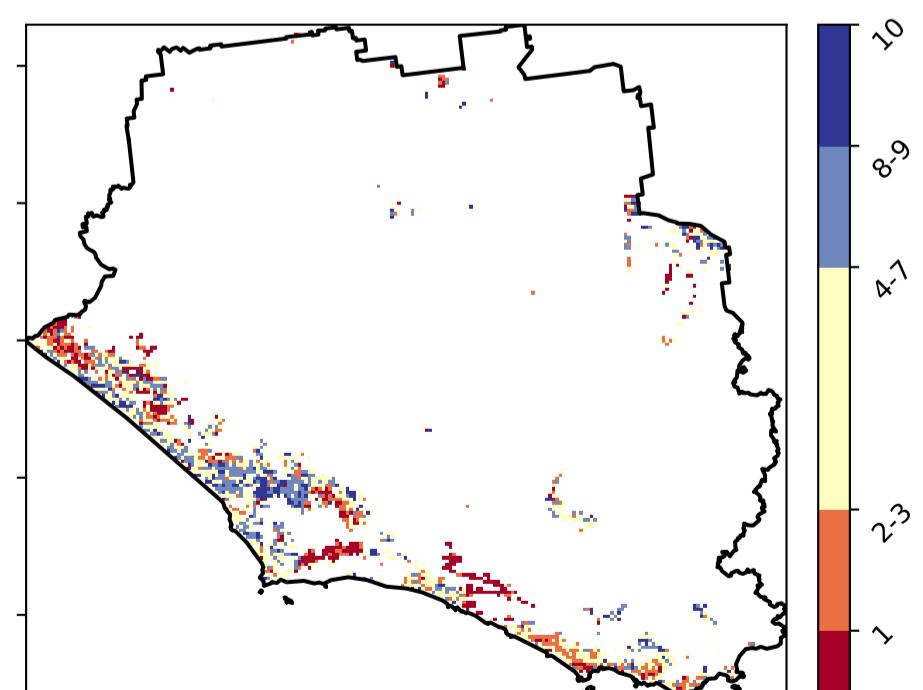
**Total Vegetation Cover Anomaly [%]**

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.



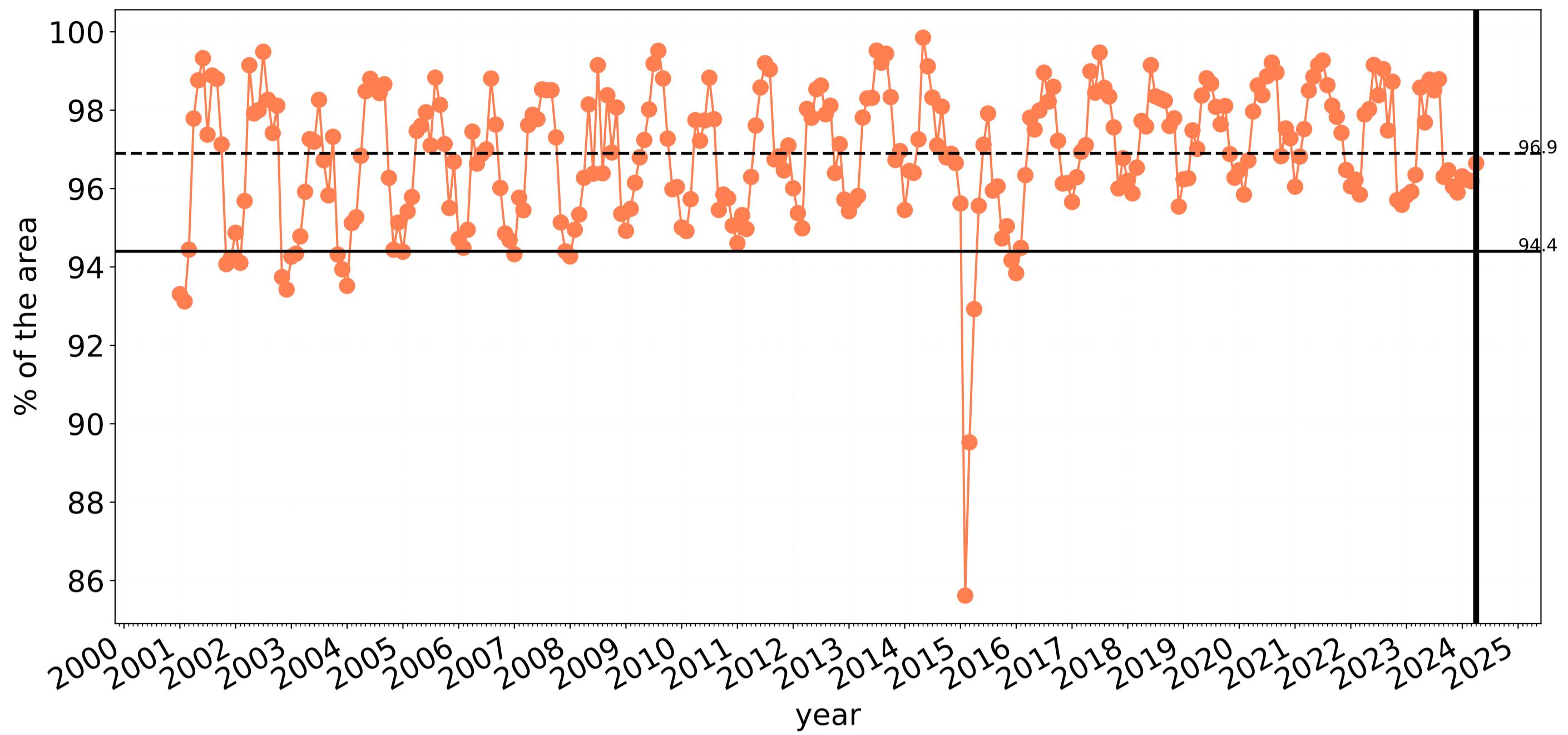
Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

**Total Vegetation Cover Decile [%]**

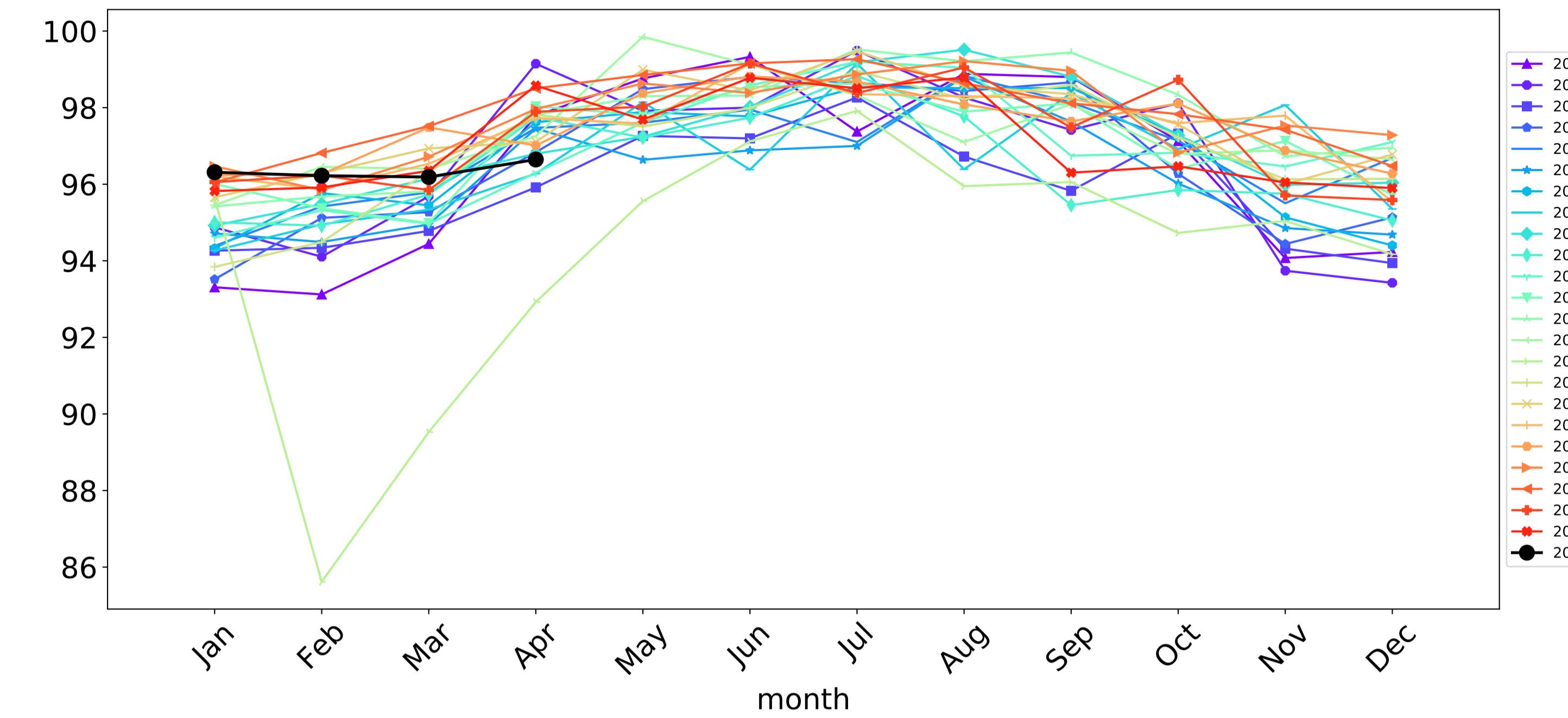


## Conservation and natural environments non forest timeseries

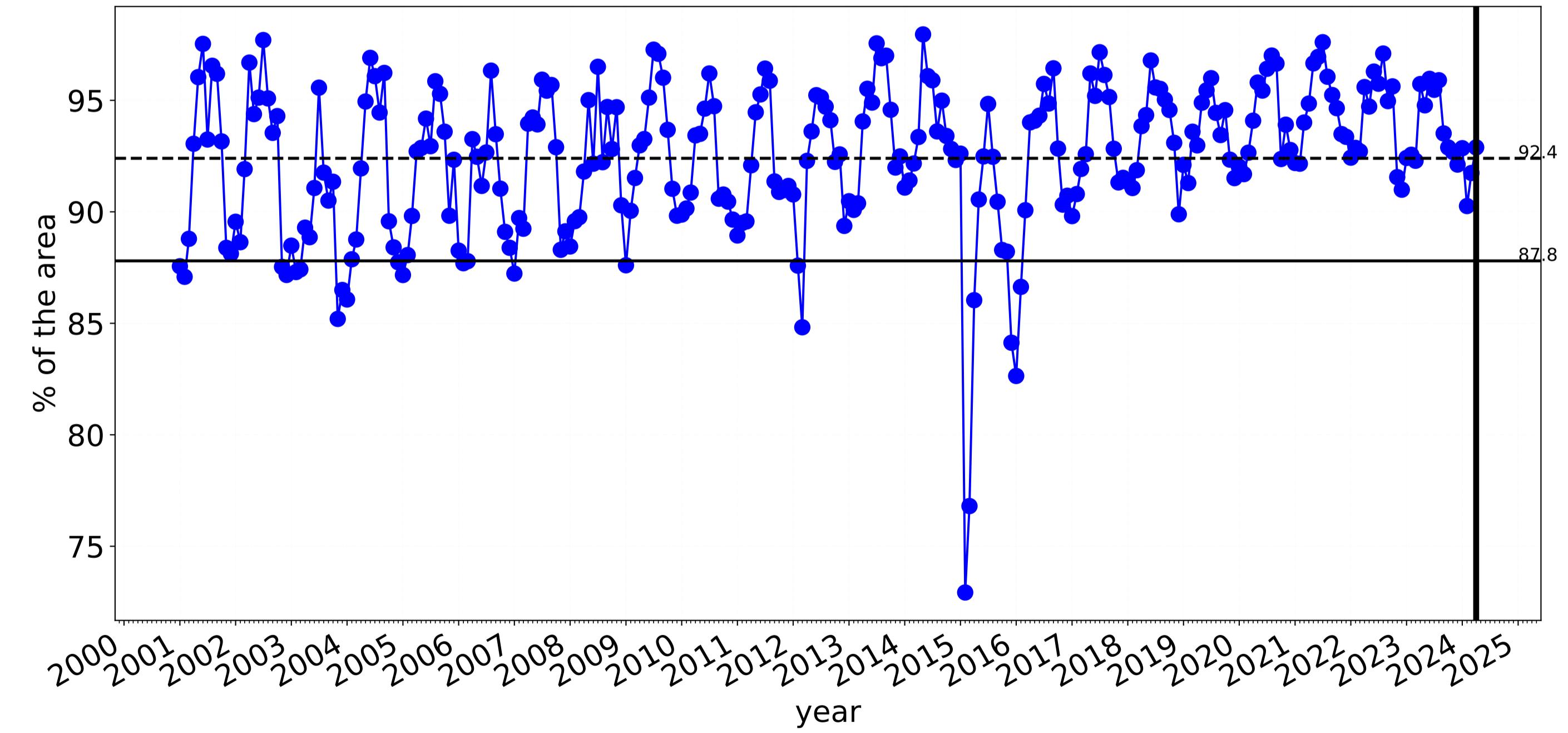
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



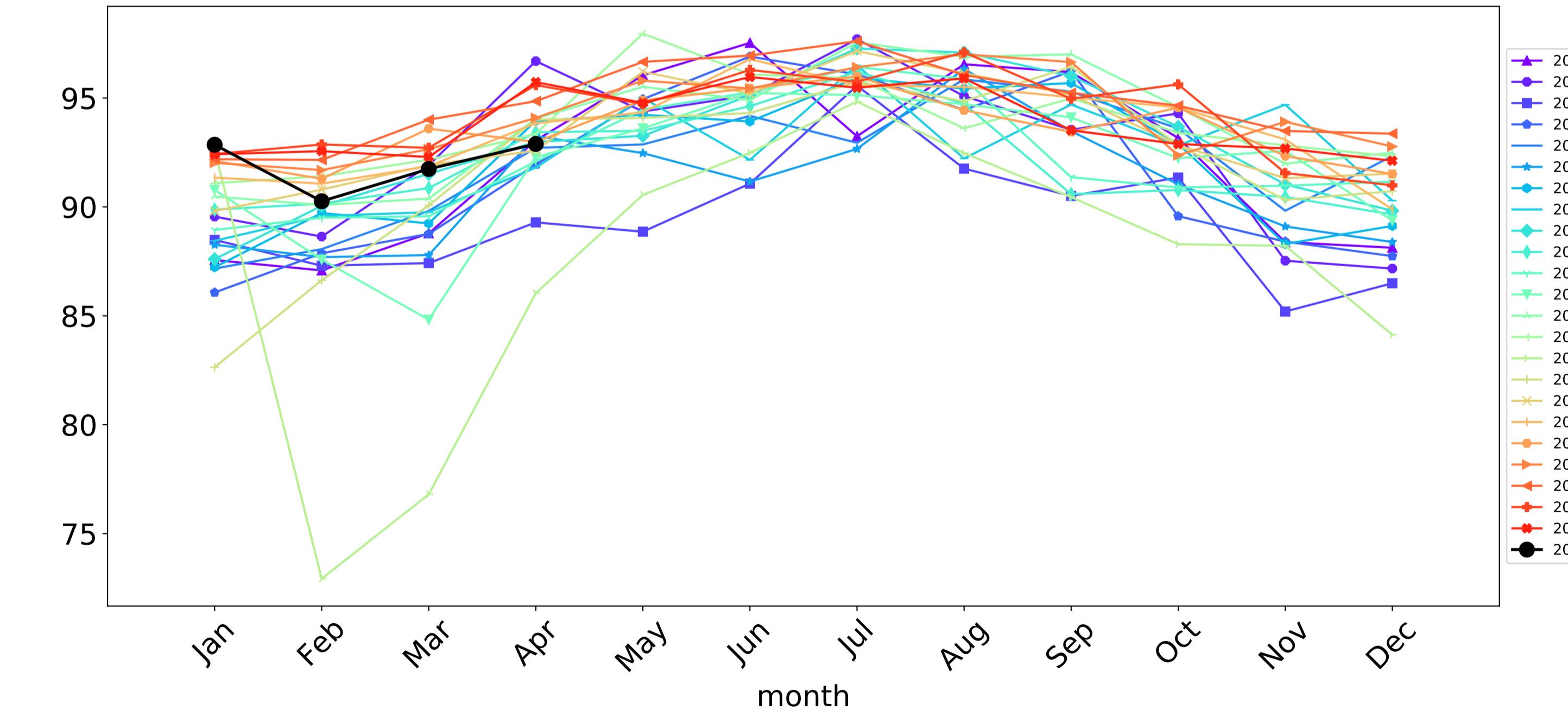
Wind erosion historical monthly area protected (Total Veg Cov >50%)



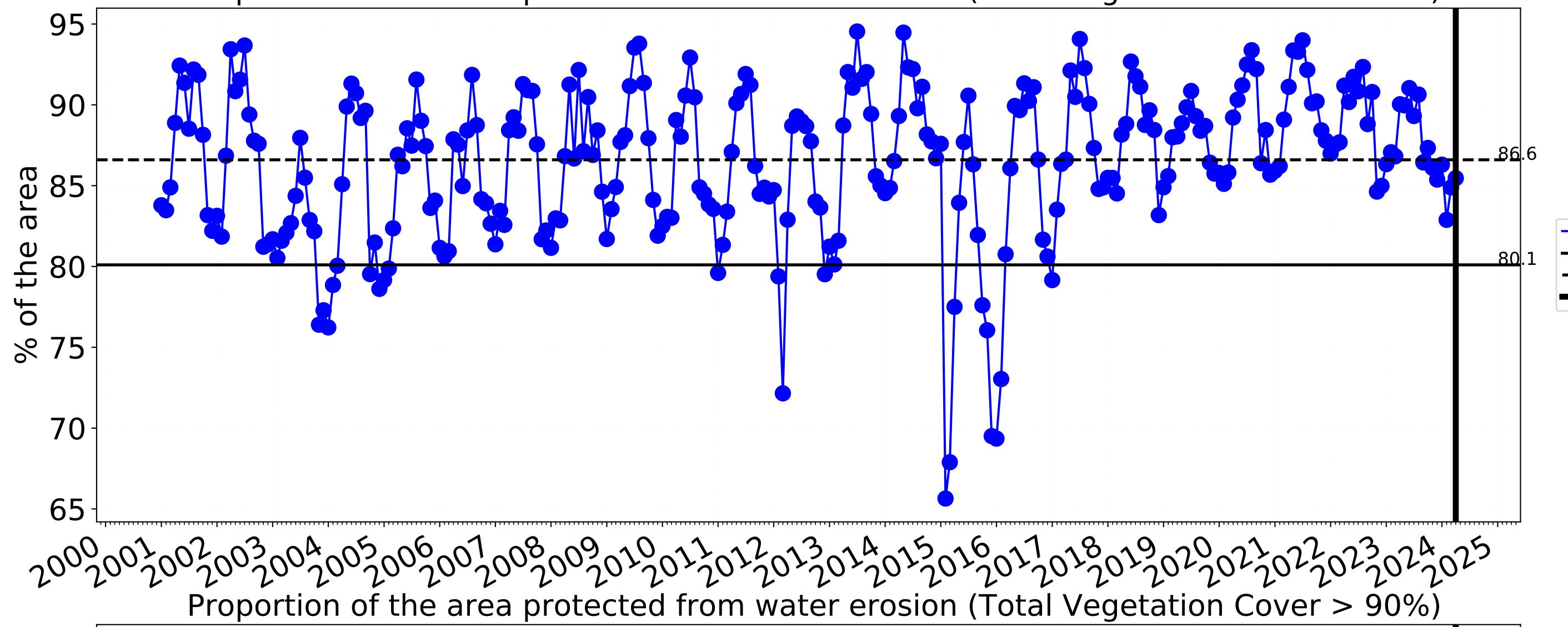
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



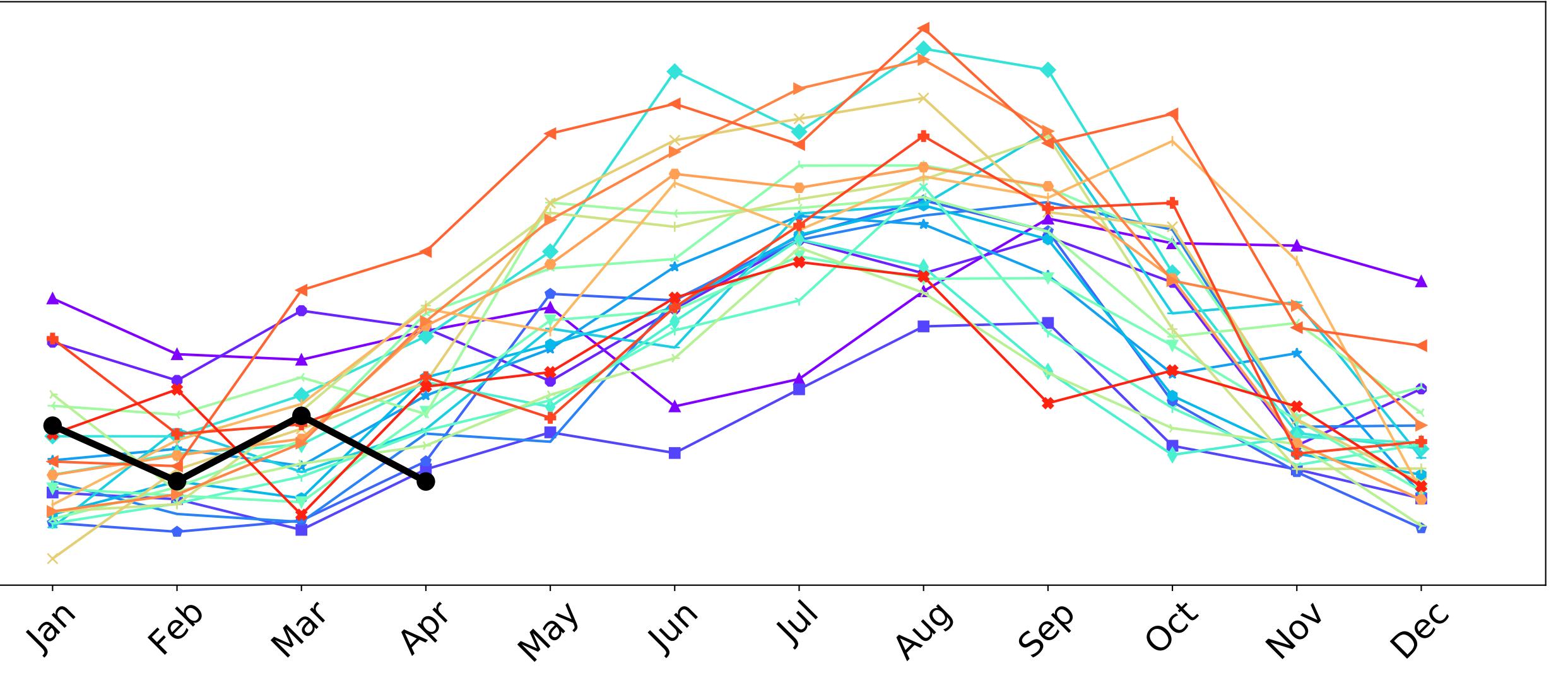
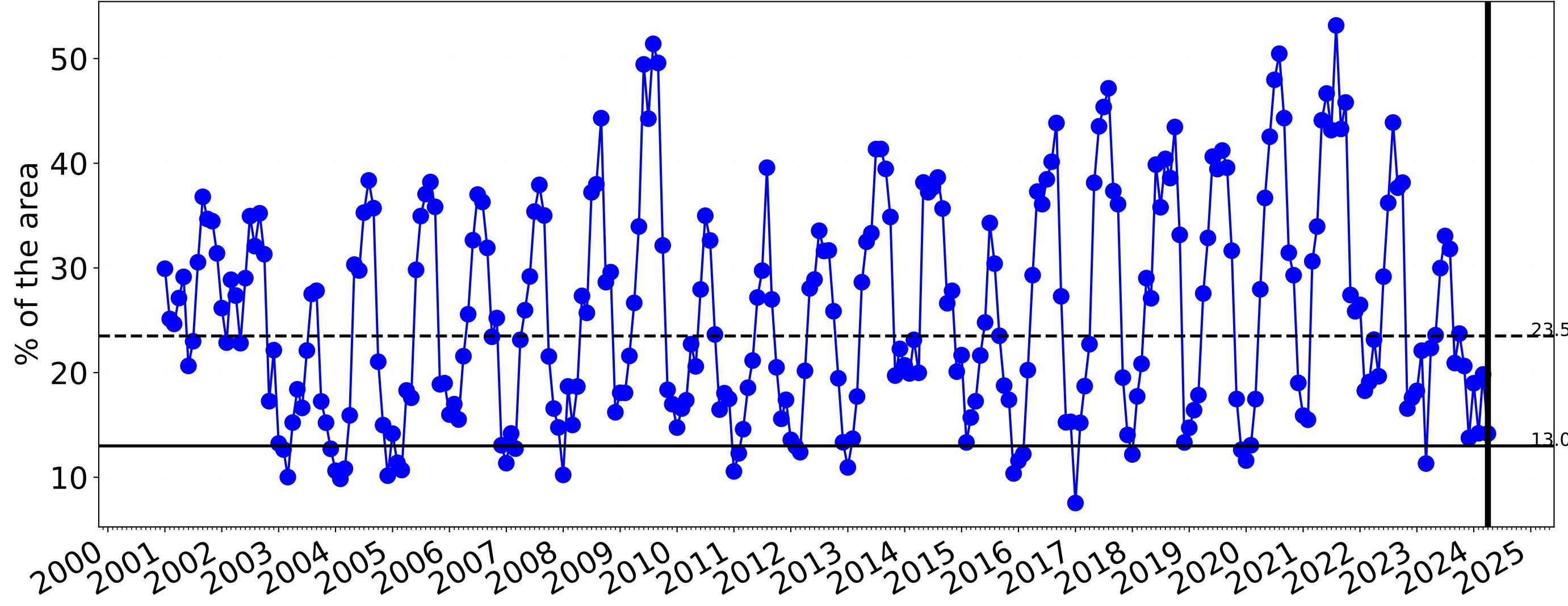
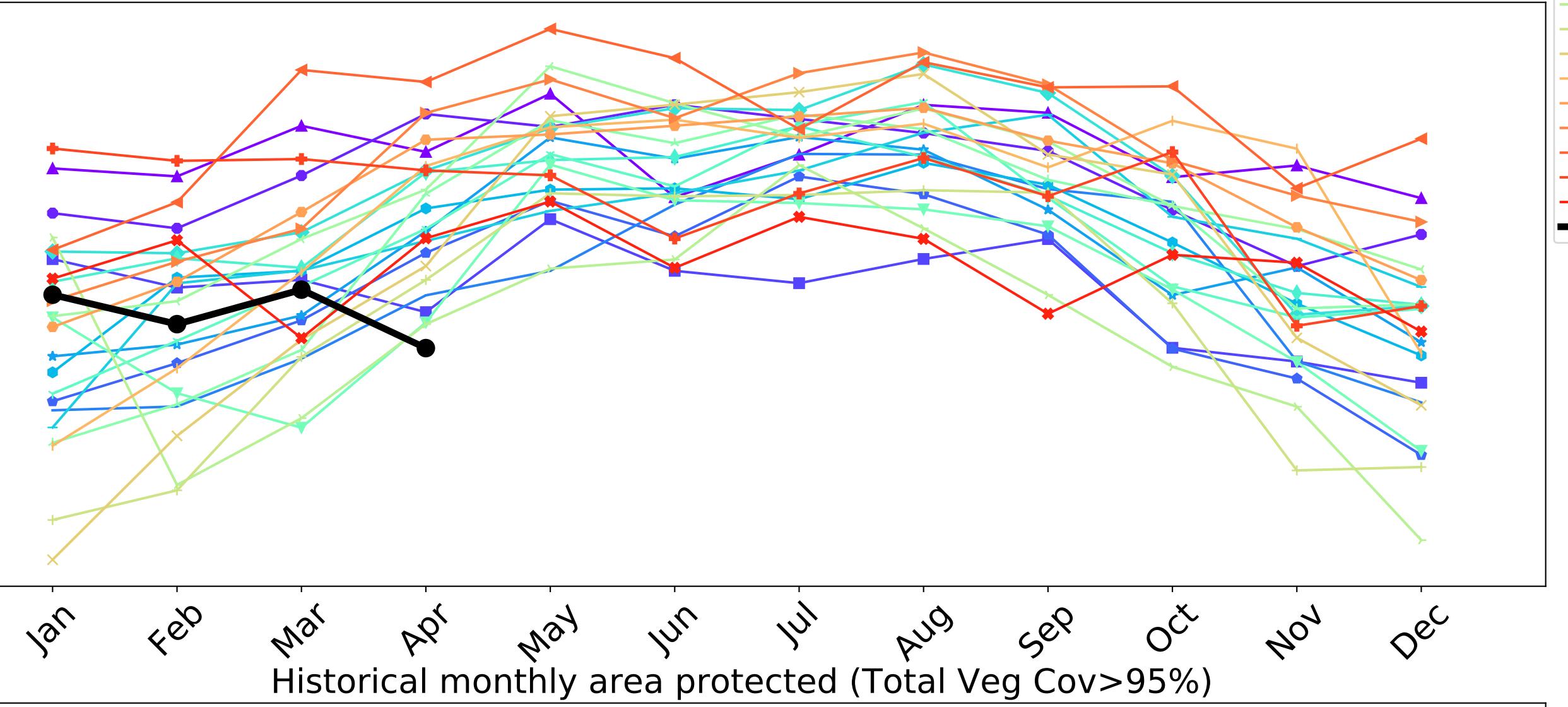
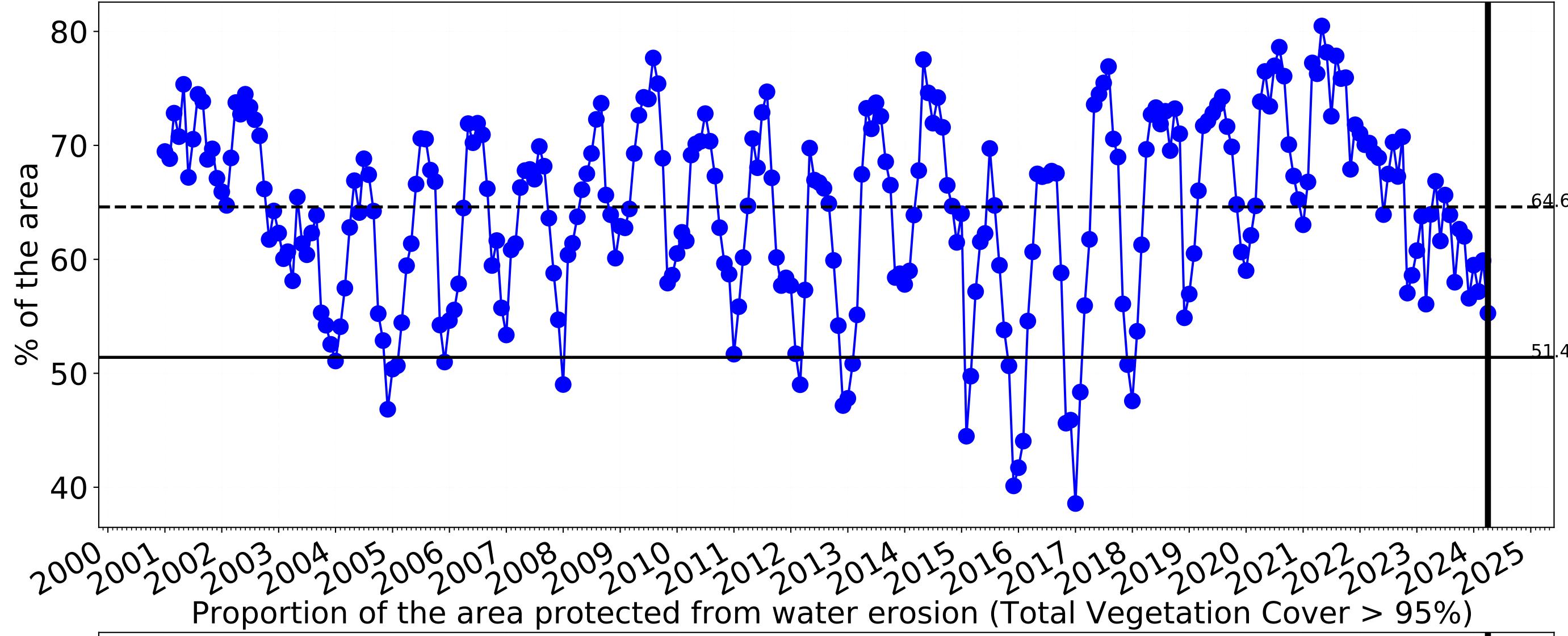
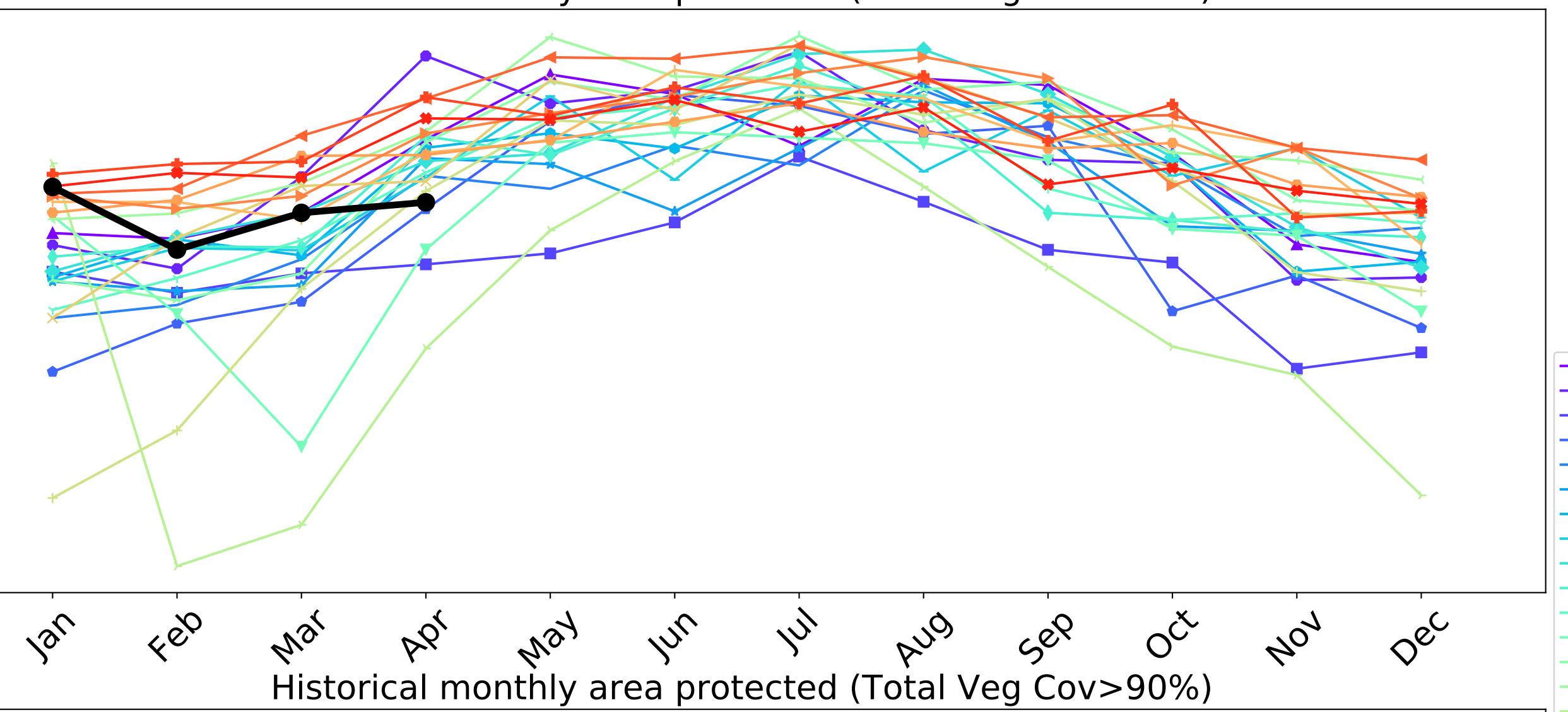
Water erosion historical monthly area protected (Total Veg Cov>70%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



Historical monthly area protected (Total Veg Cov>80%)



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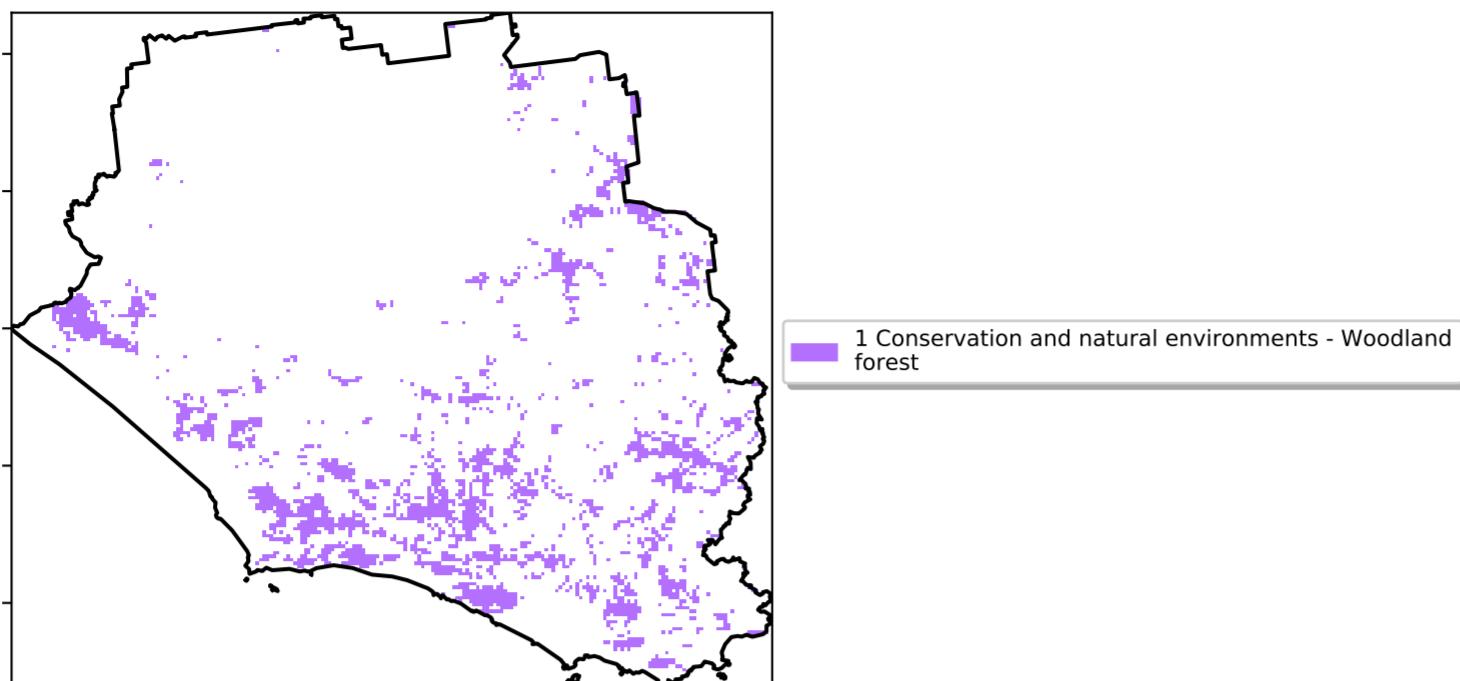
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Landcare  
Programme



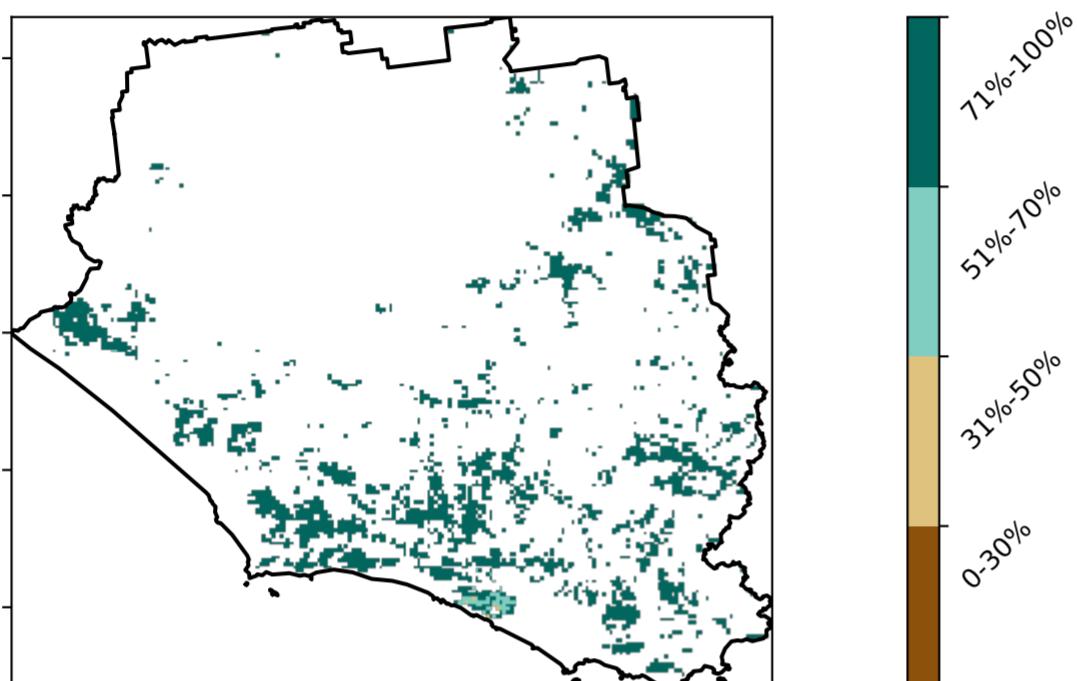
# Conservation and natural environments Woodland forest

**Land use and forest cover**

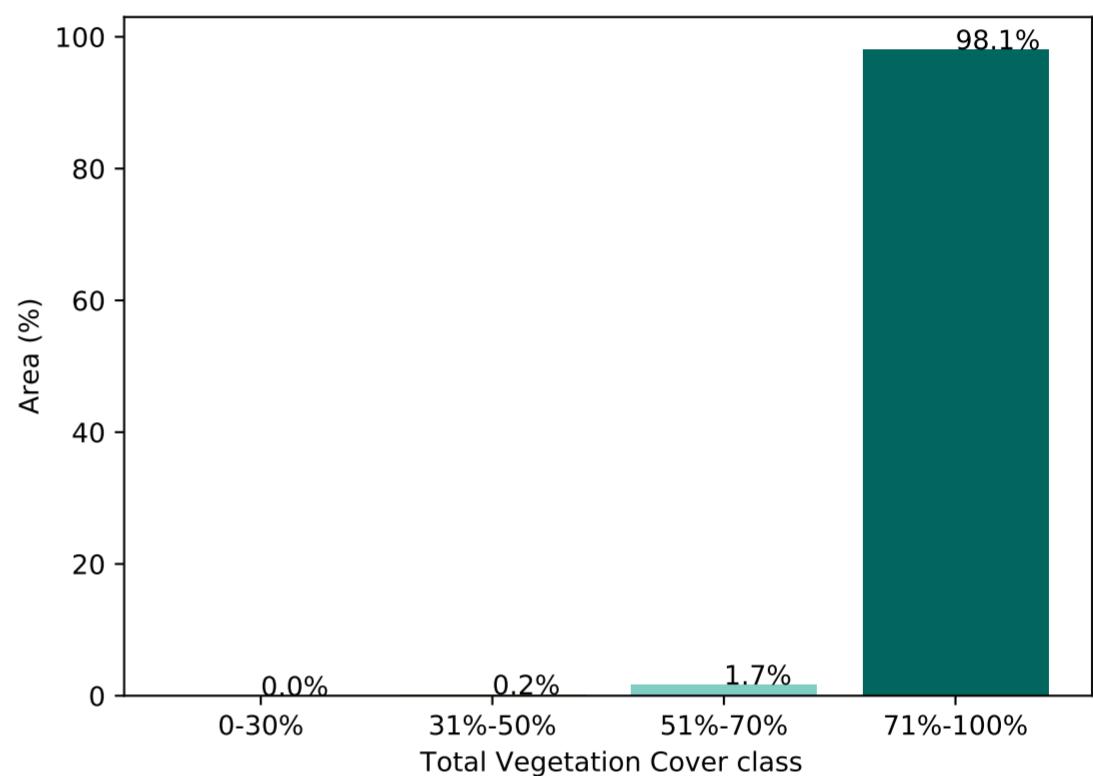
Catchment Scale  
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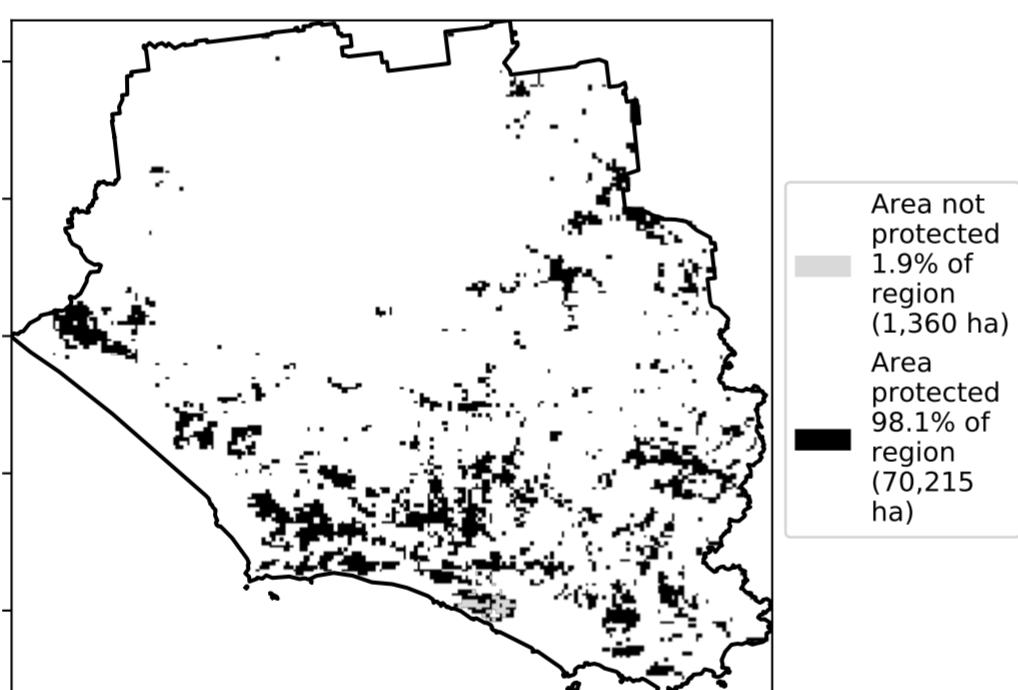
**Total Vegetation Cover [%]**



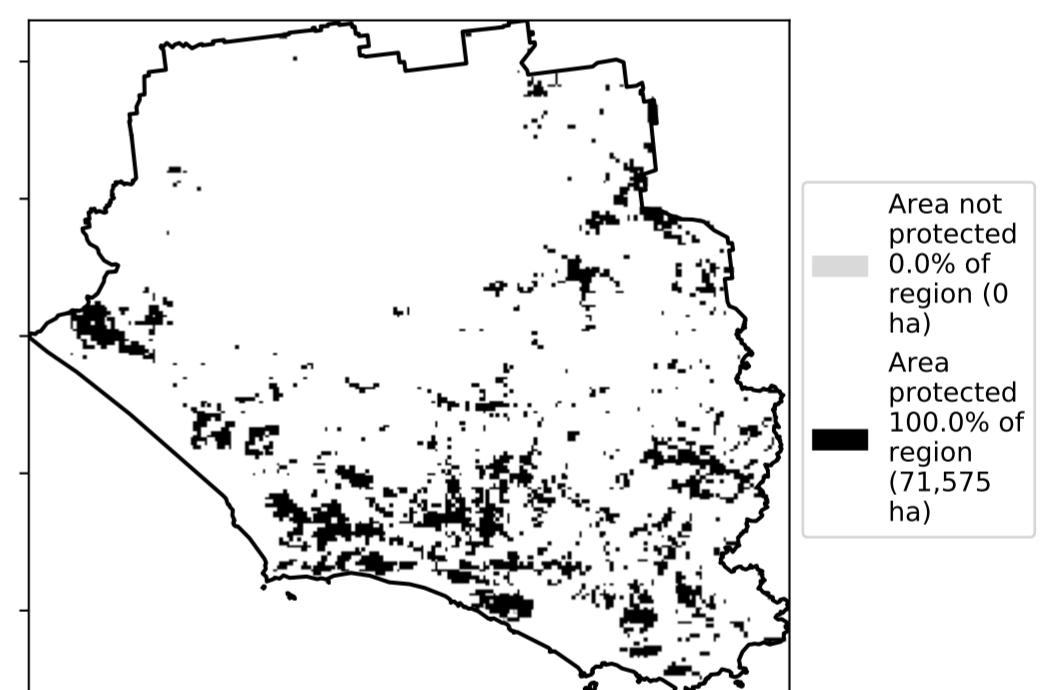
**Proportion of vegetation cover class in area**



**% Area protected from water erosion (>70%)**

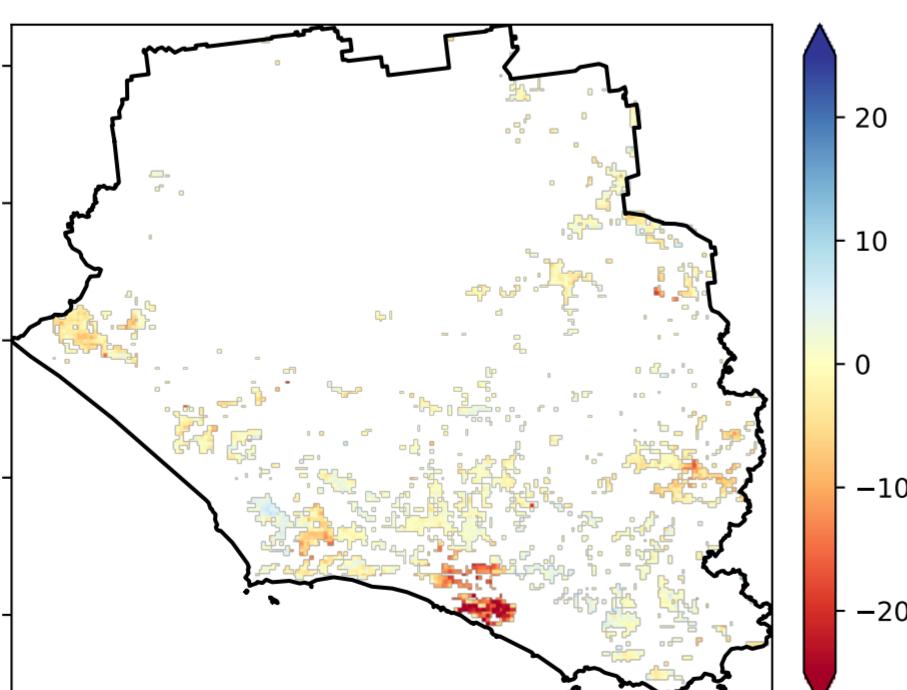


**% Area protected from wind erosion (>50%)**

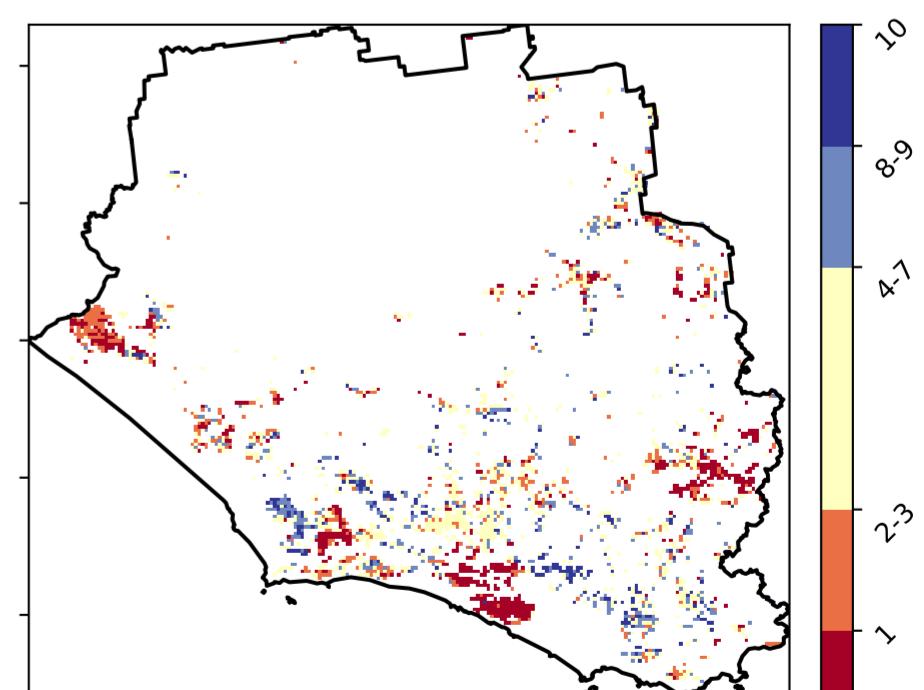


**Total Vegetation Cover Anomaly [%]**

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.

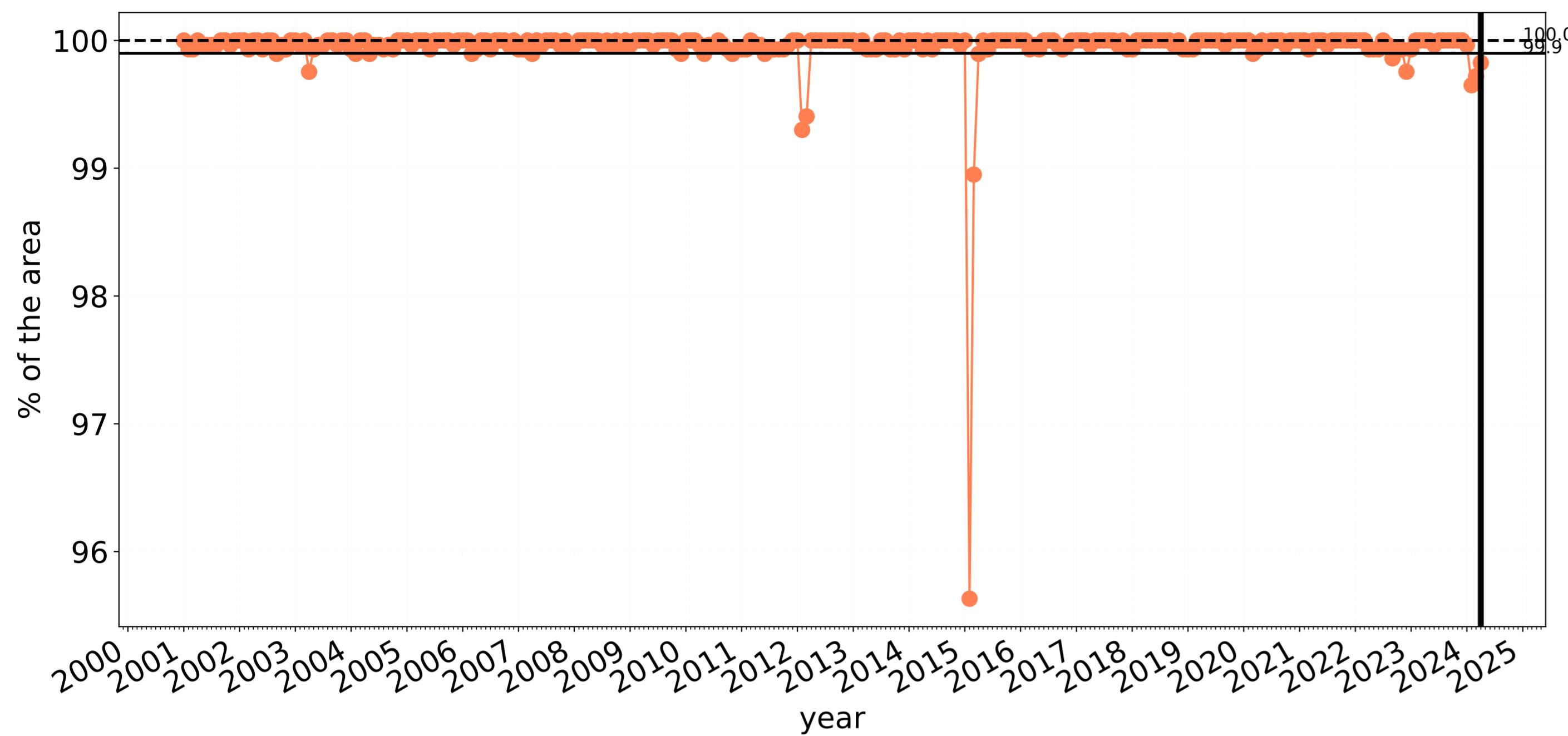


**Total Vegetation Cover Decile [%]**

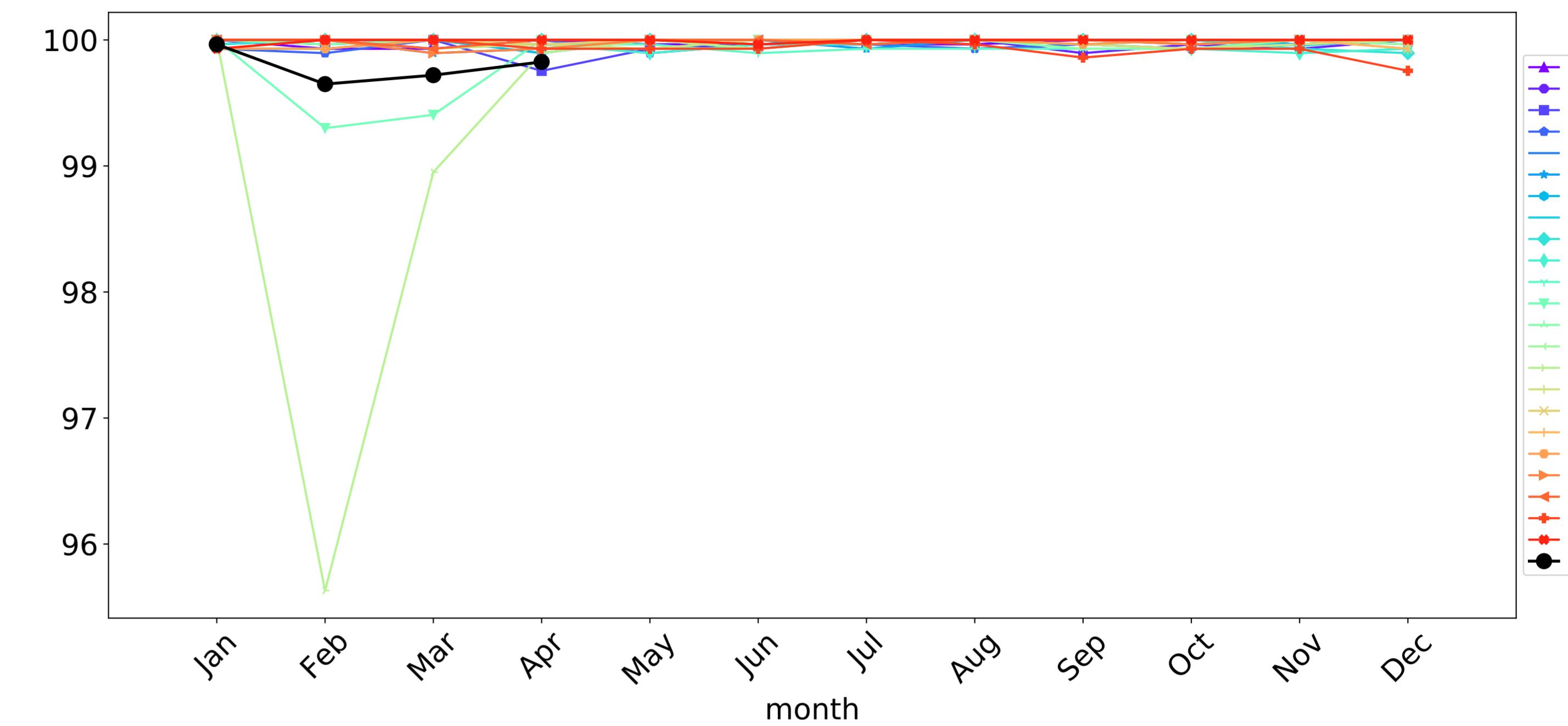


## Conservation and natural environments Woodland forest timeseries

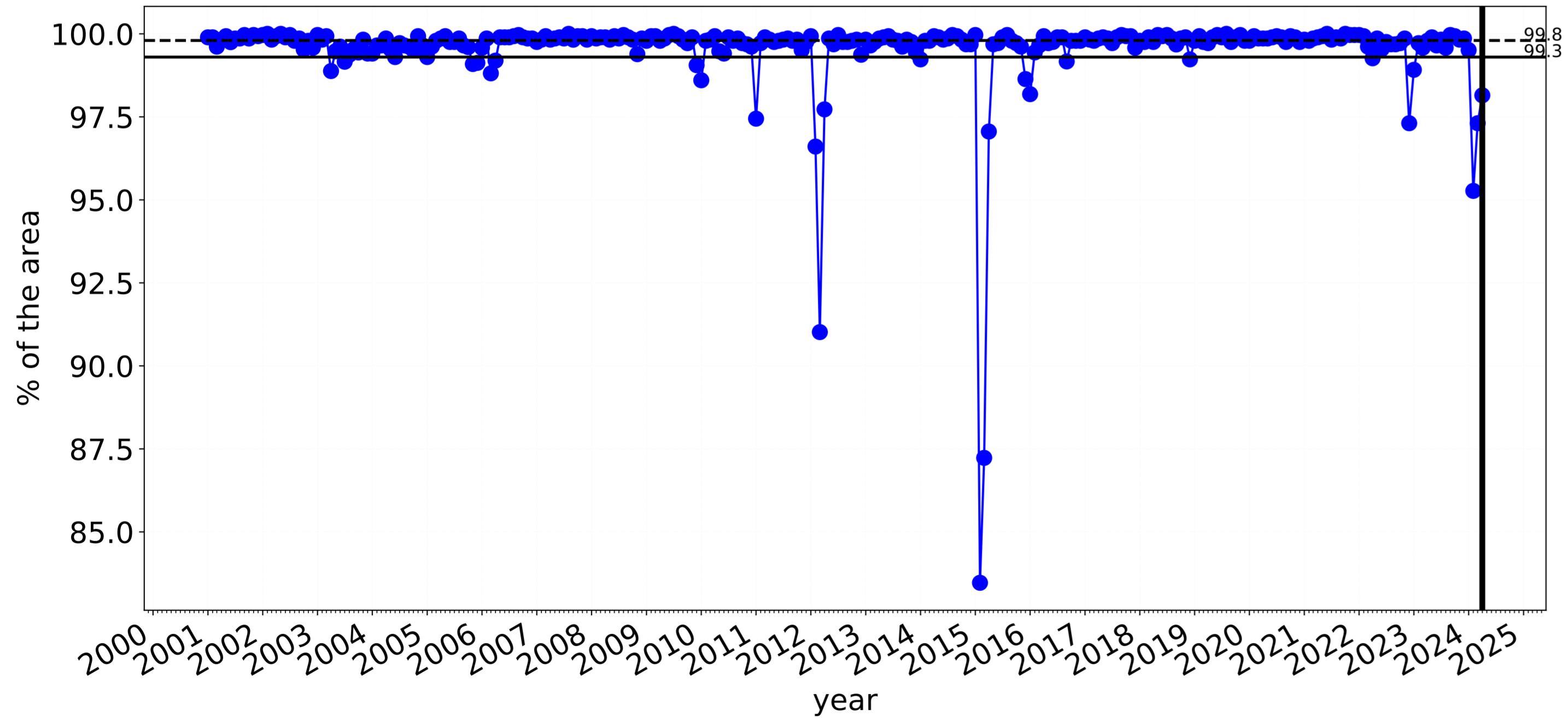
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



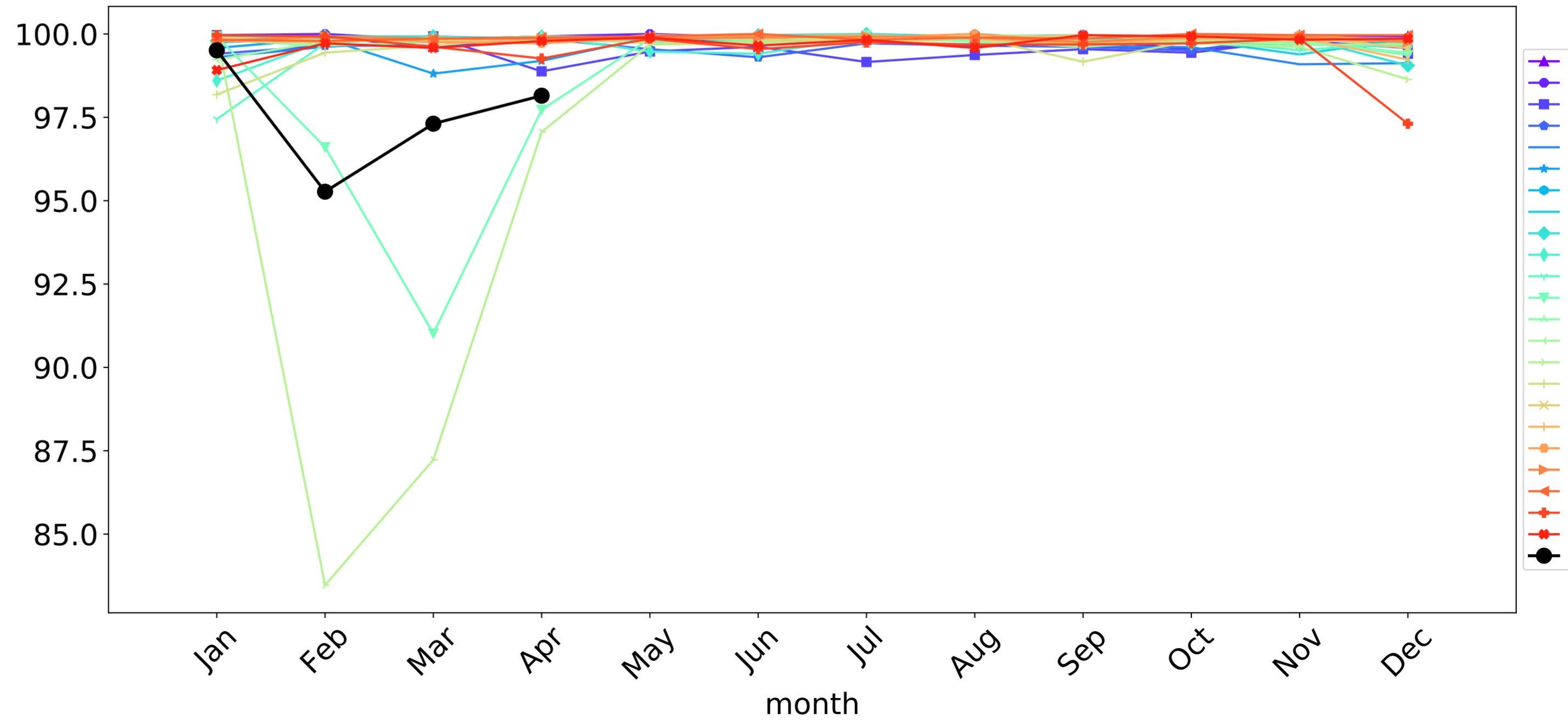
Wind erosion historical monthly area protected (Total Veg Cov >50%)



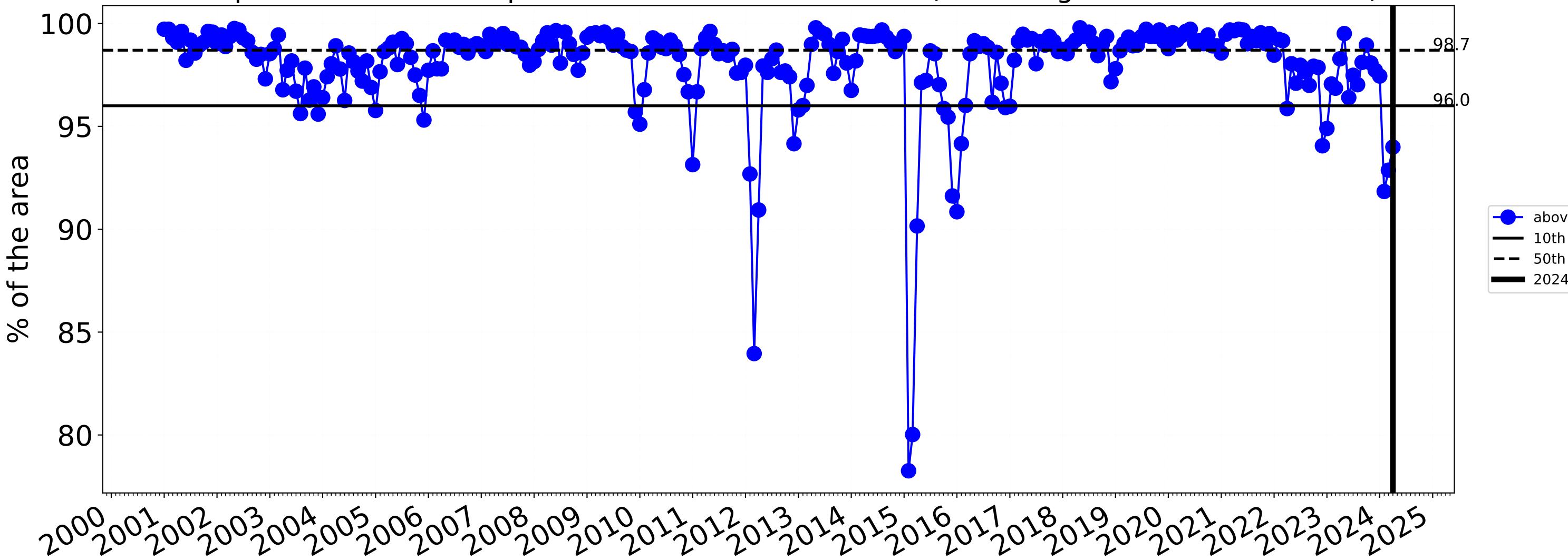
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



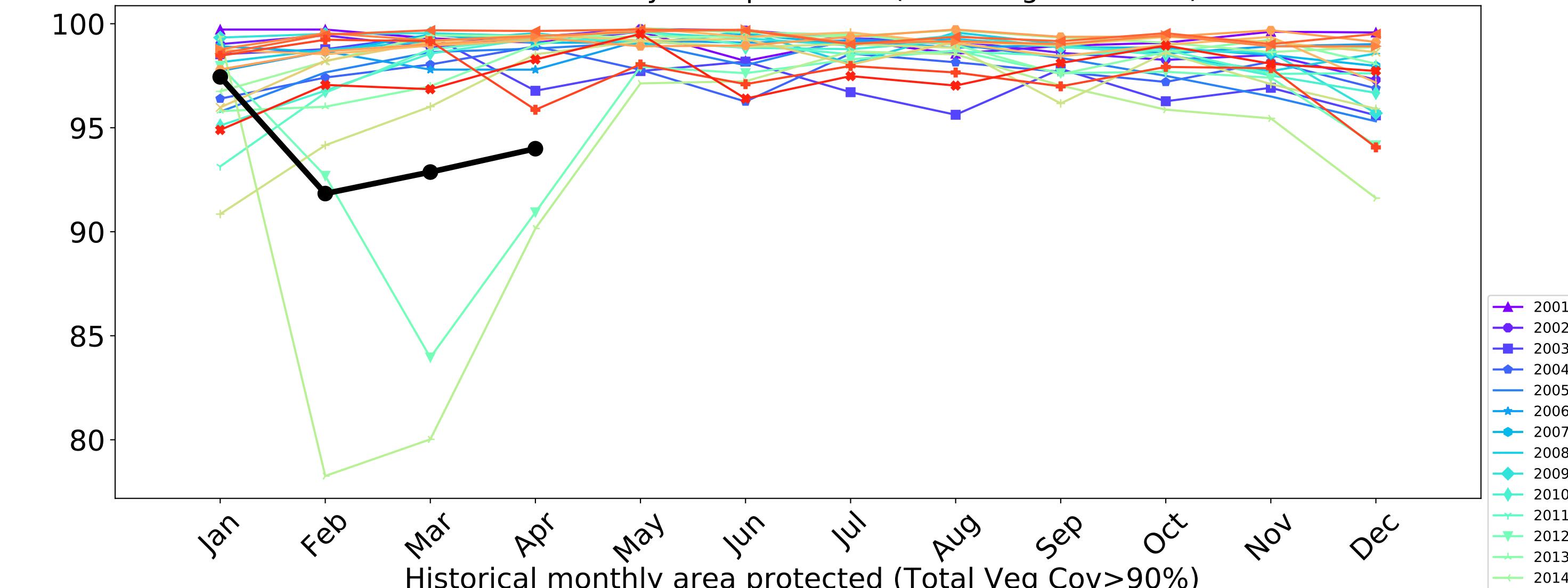
Water erosion historical monthly area protected (Total Veg Cov>70%)



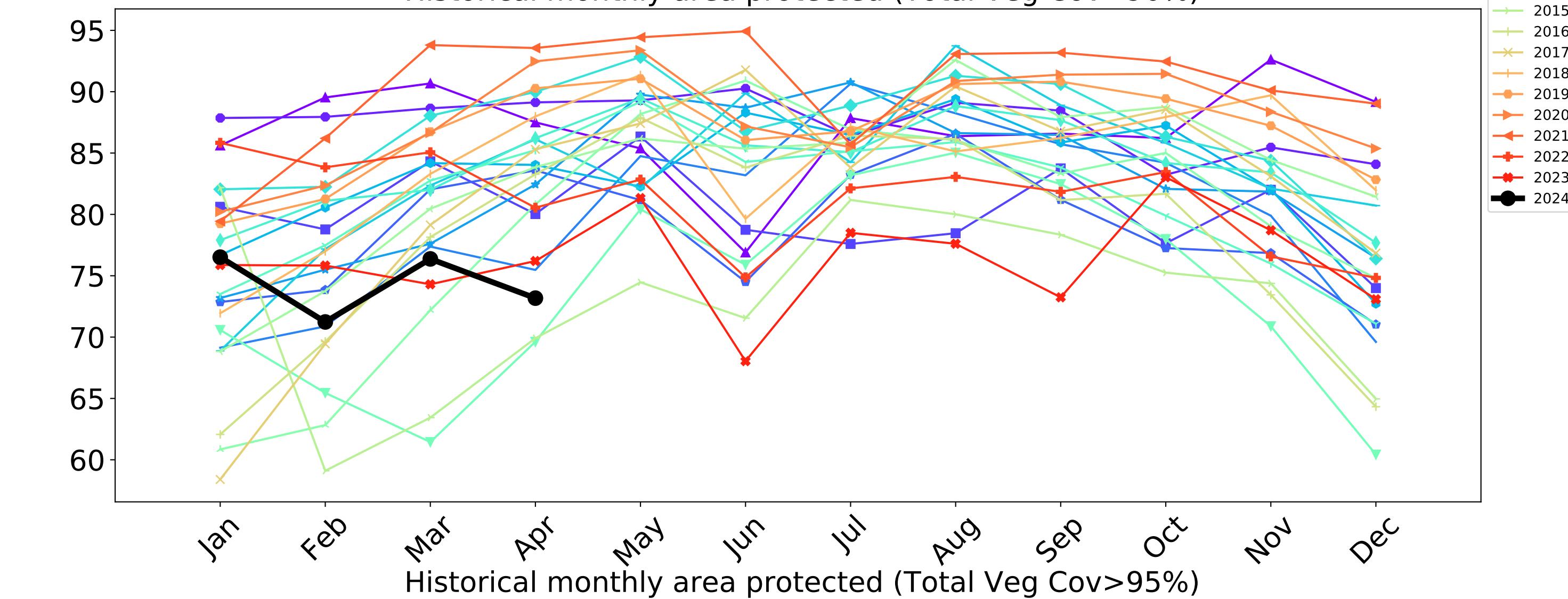
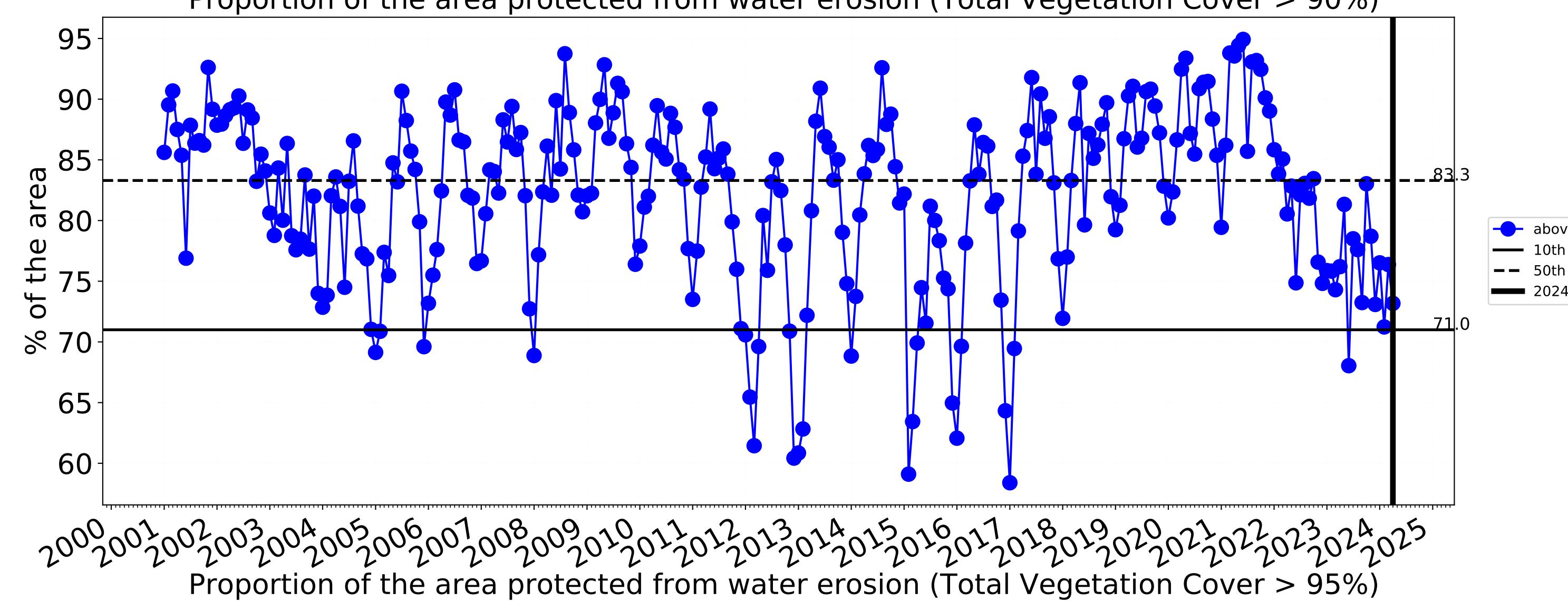
Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



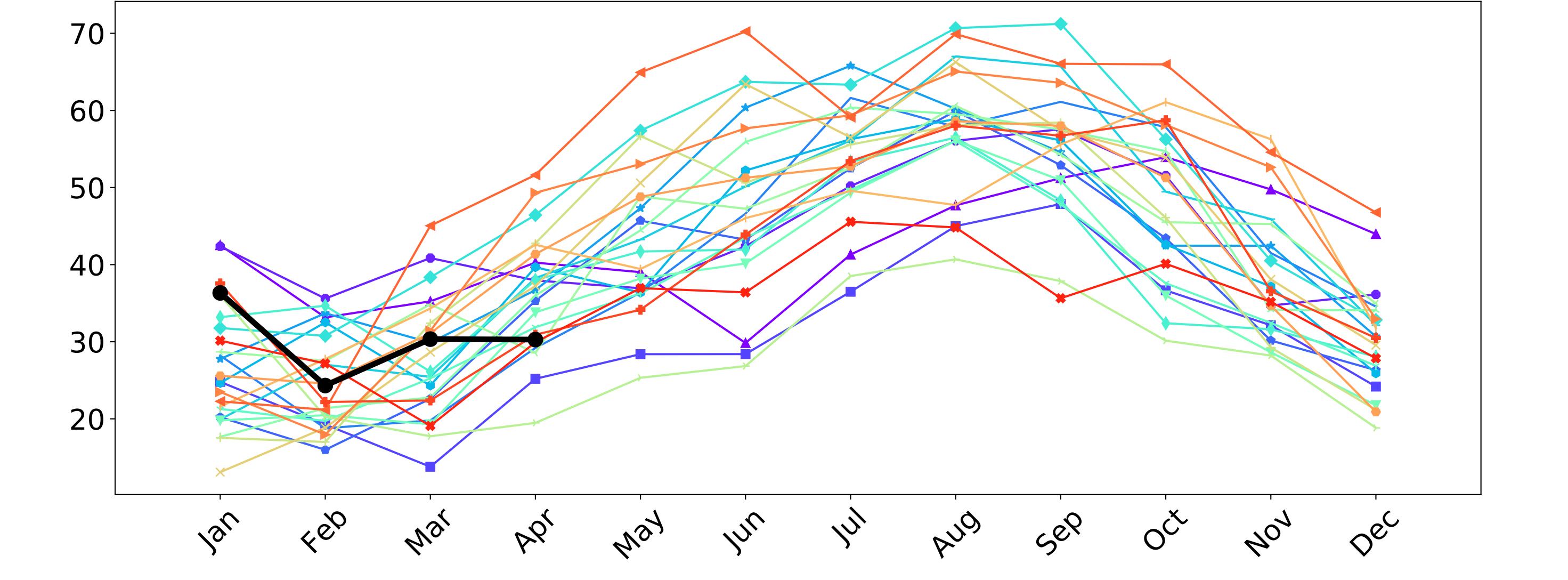
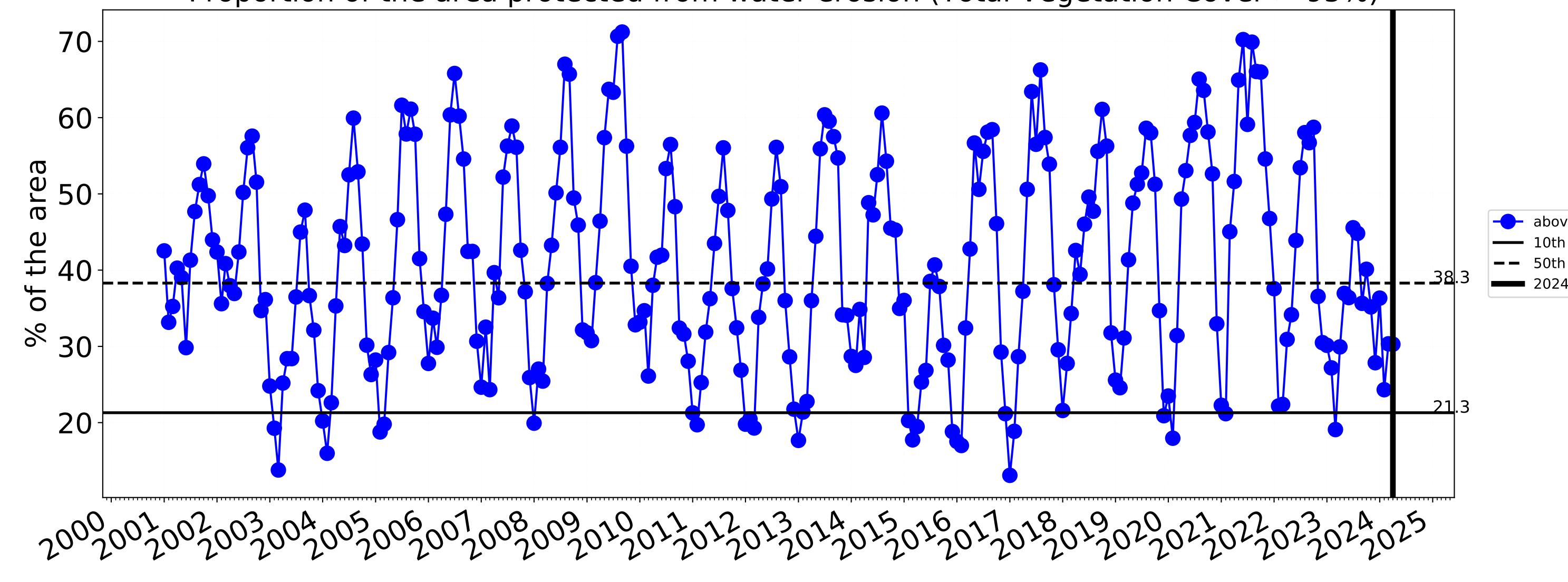
Historical monthly area protected (Total Veg Cov>80%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 90%)



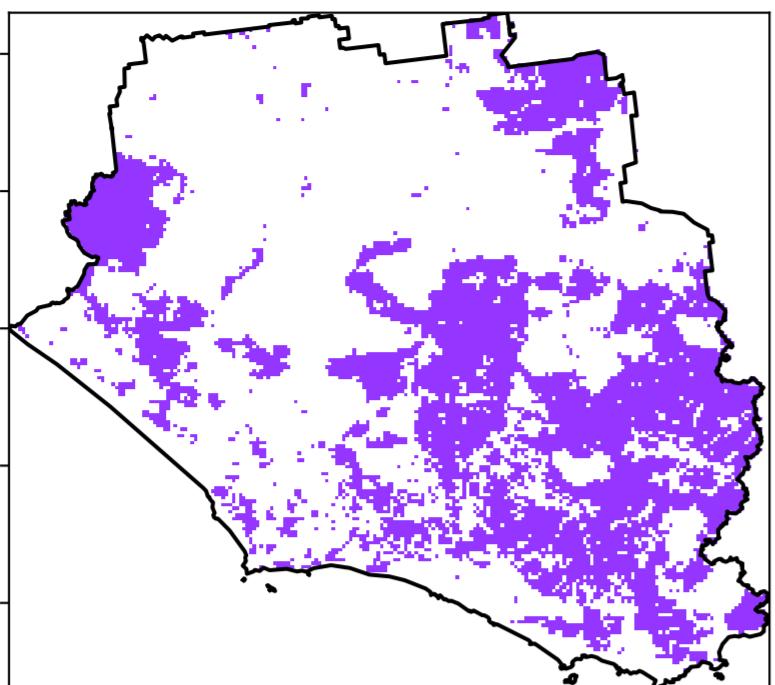
Proportion of the area protected from water erosion (Total Vegetation Cover > 95%)



# Conservation and natural environments Forest (non woodland)

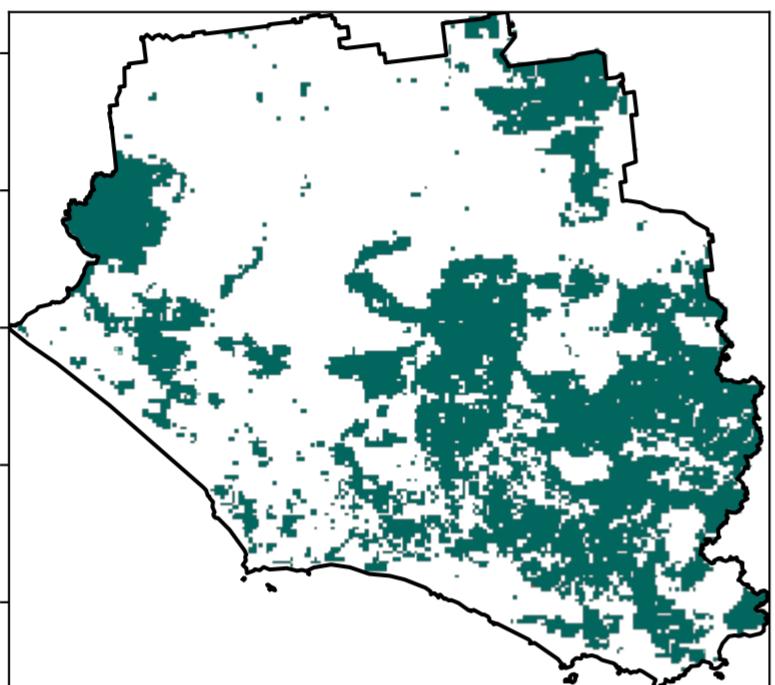
**Land use and forest cover**

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



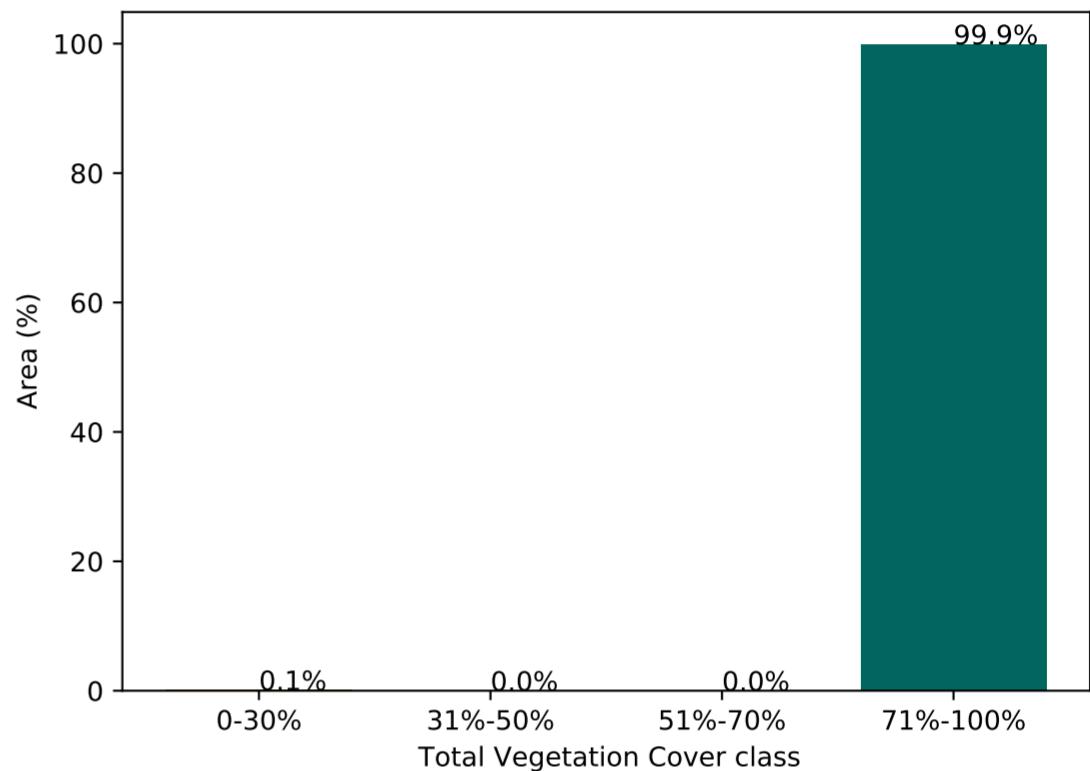
1 Conservation and natural environments - Non-woodland forest

**Total Vegetation Cover [%]**

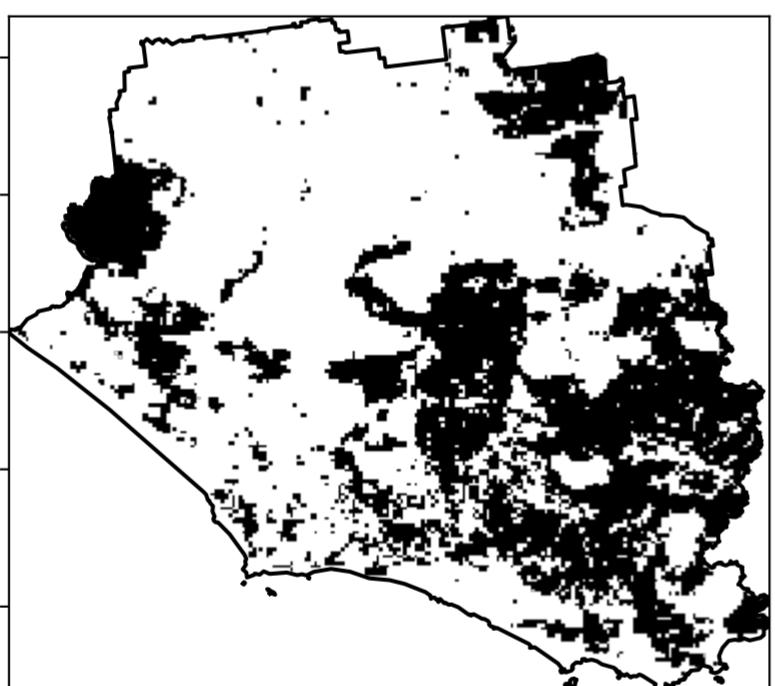


71%-100%  
51%-70%  
31%-50%  
0-30%

**Proportion of vegetation cover class in area**

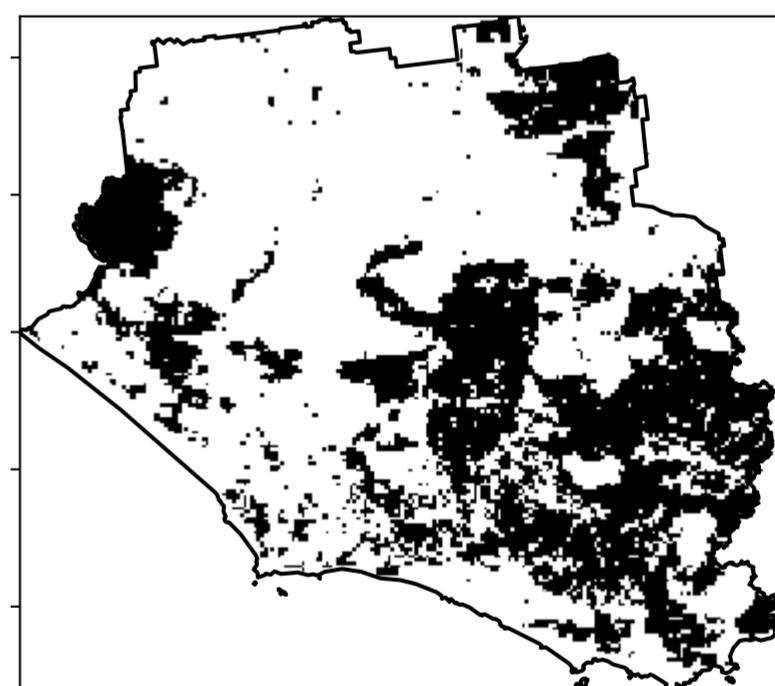


**% Area protected from water erosion (>70%)**



Area not protected  
0.1% of region (243 ha)  
Area protected  
99.9% of region (242,382 ha)

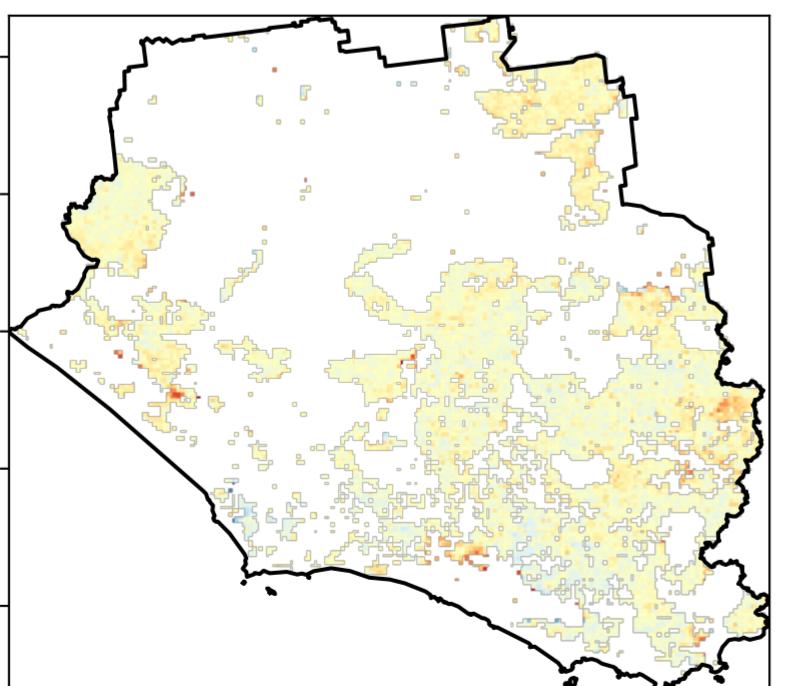
**% Area protected from wind erosion (>50%)**



Area not protected  
0.0% of region (0 ha)  
Area protected  
100.0% of region (242,625 ha)

**Total Vegetation Cover Anomaly [%]**

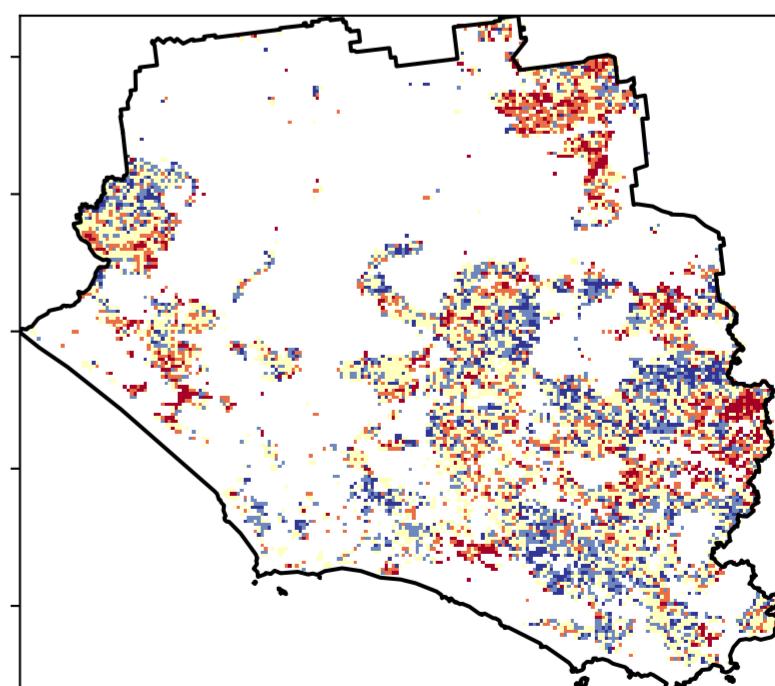
Anomaly shows how many percentage points each pixel is from the mean. That is, red pixels are about 20% lower than the mean of that pixel. The mean is only for the month of the map using baseline from 2001 to 2019.



-20  
-10  
0  
10  
20

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 [%]**



1  
2  
3  
4  
5  
6  
7  
8  
9  
10



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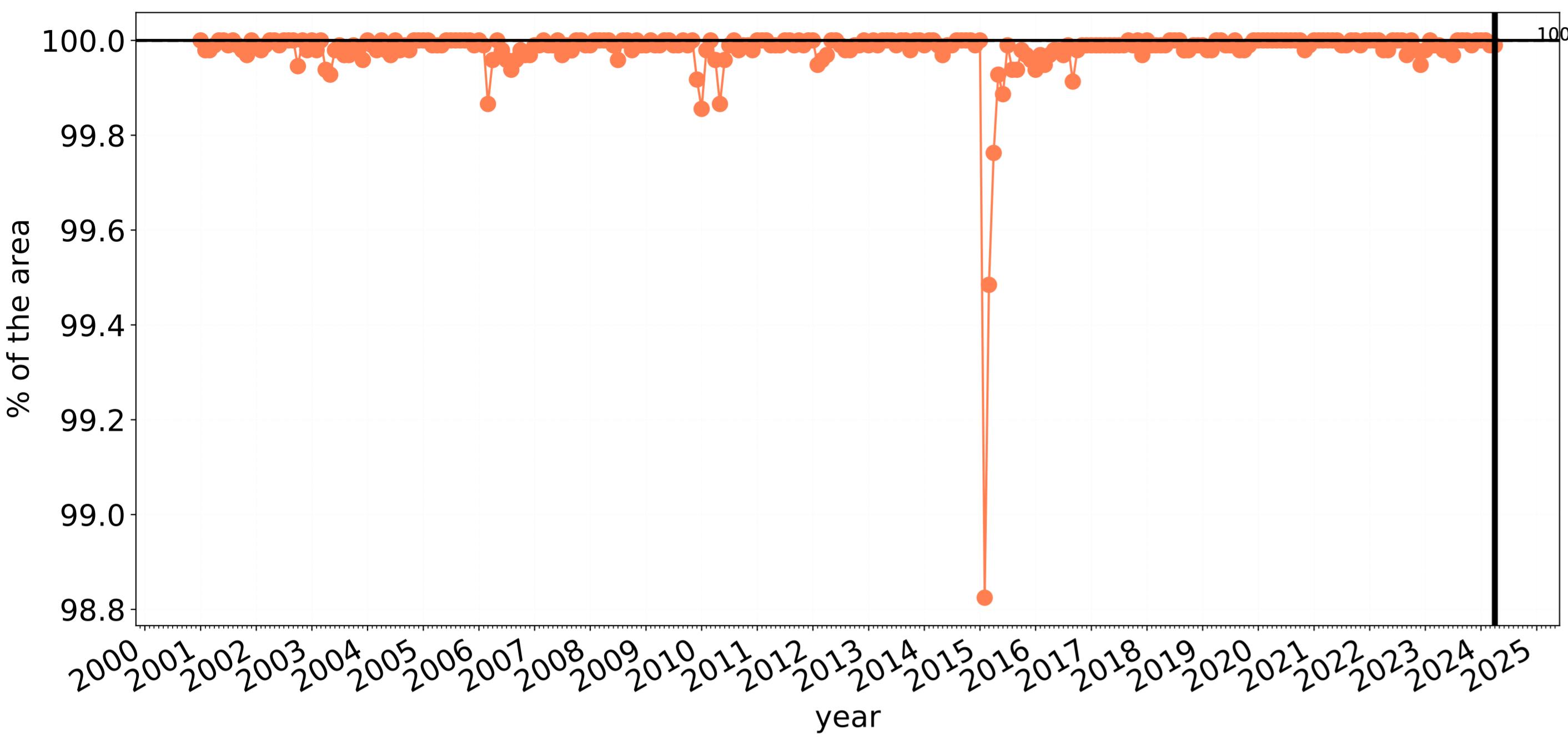


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Landcare  
Programme

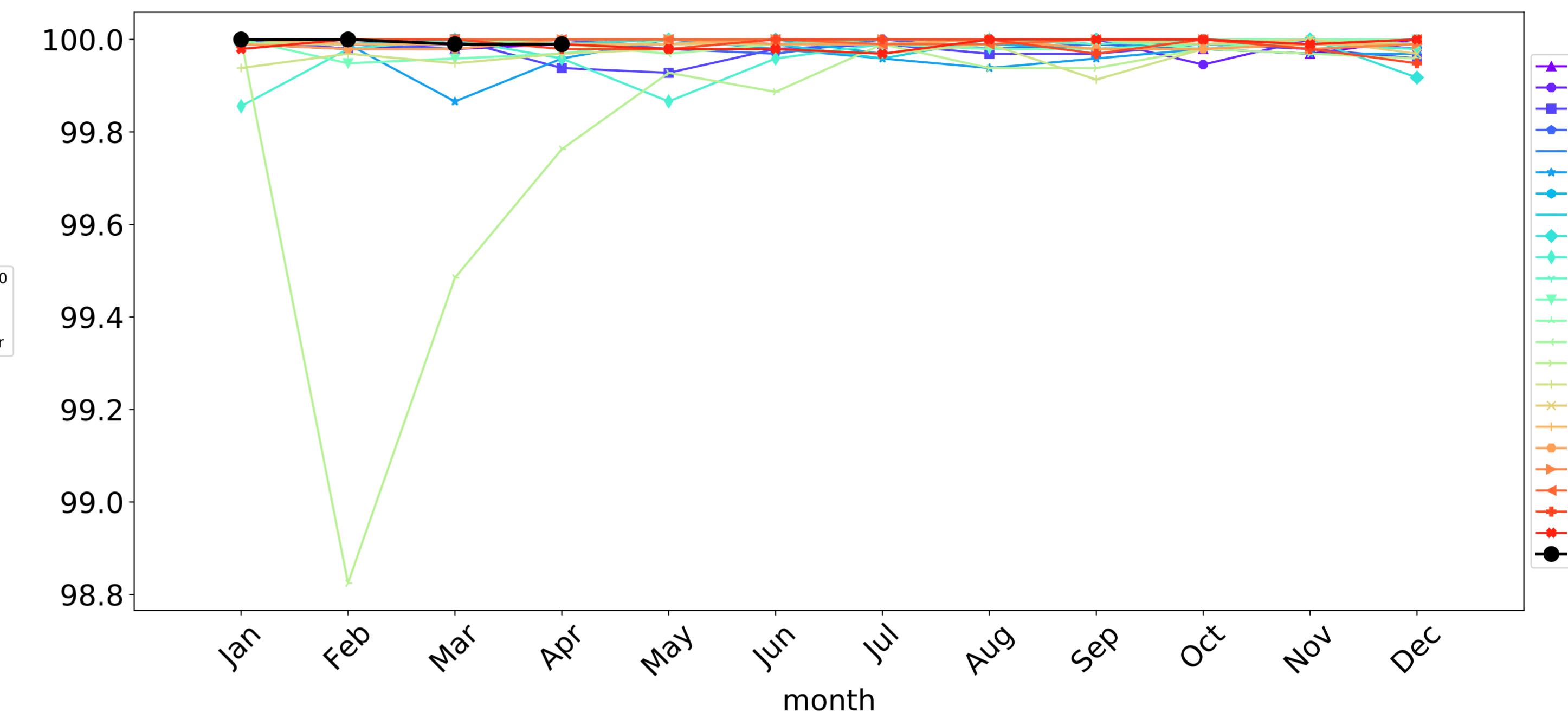


## Conservation and natural environments Forest (non woodland) timeseries

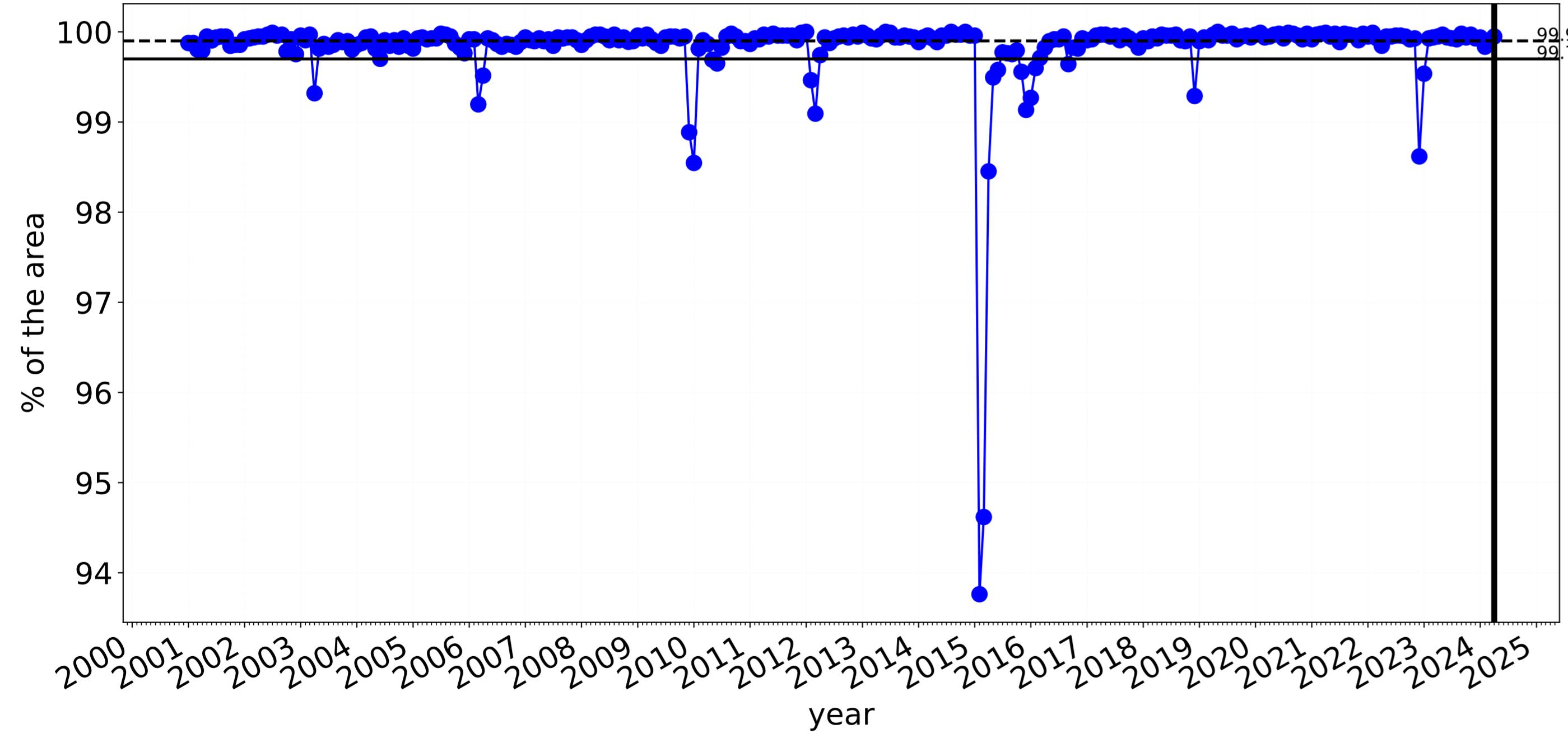
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



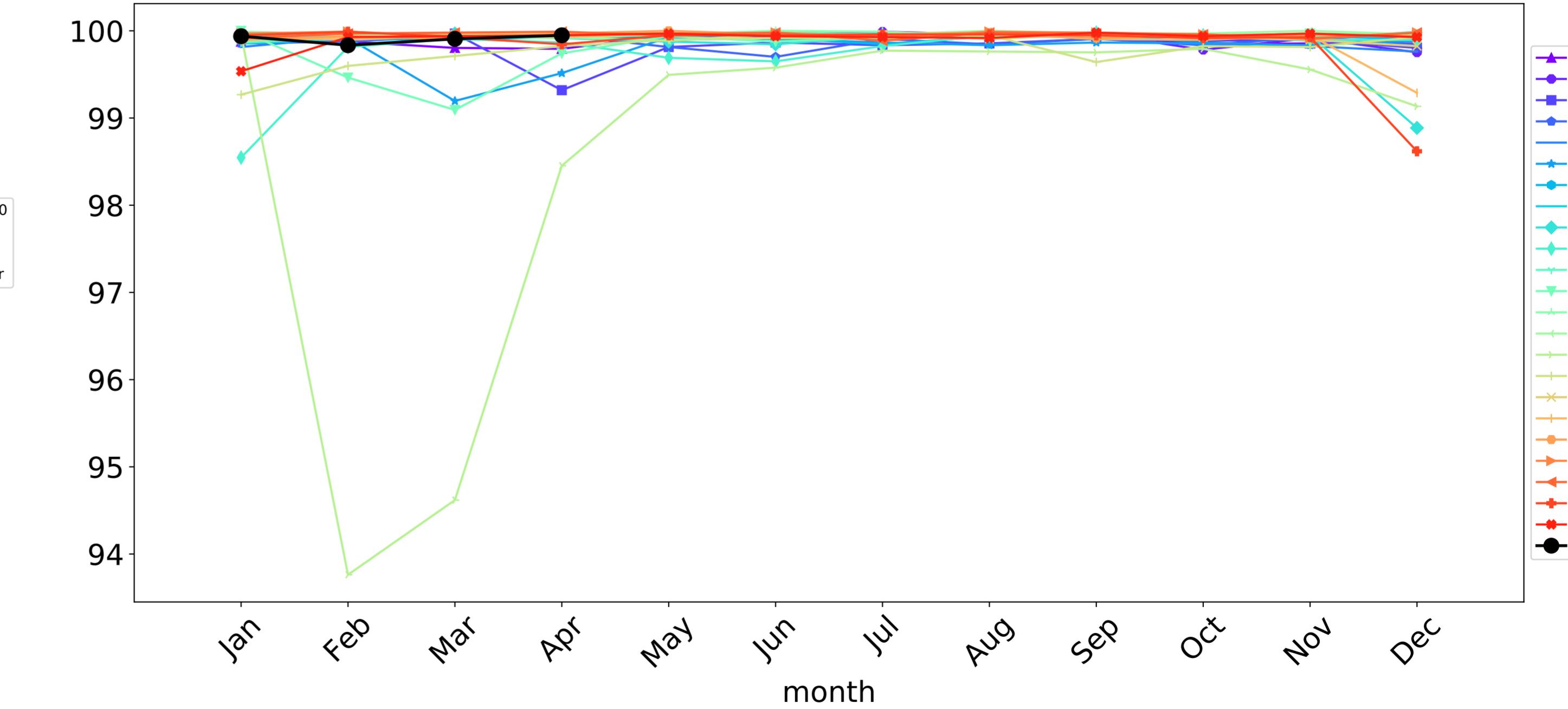
Wind erosion historical monthly area protected (Total Veg Cov >50%)



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



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



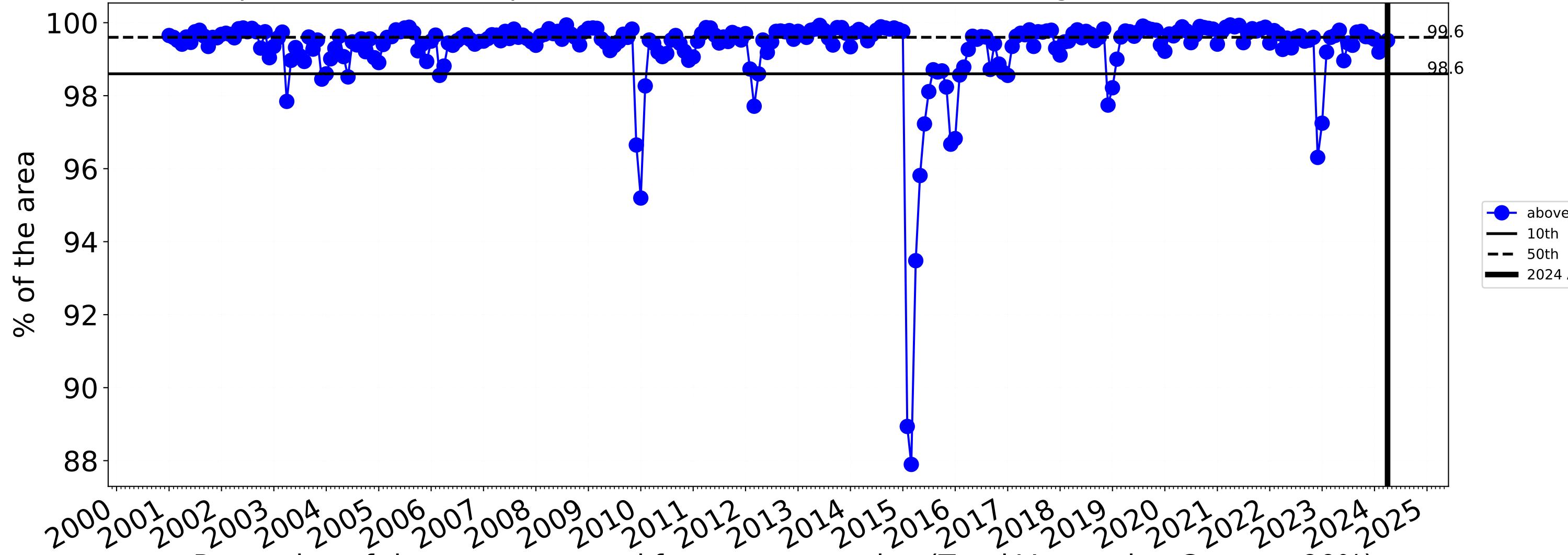
**tern**  
Ecosystem Research Infrastructure



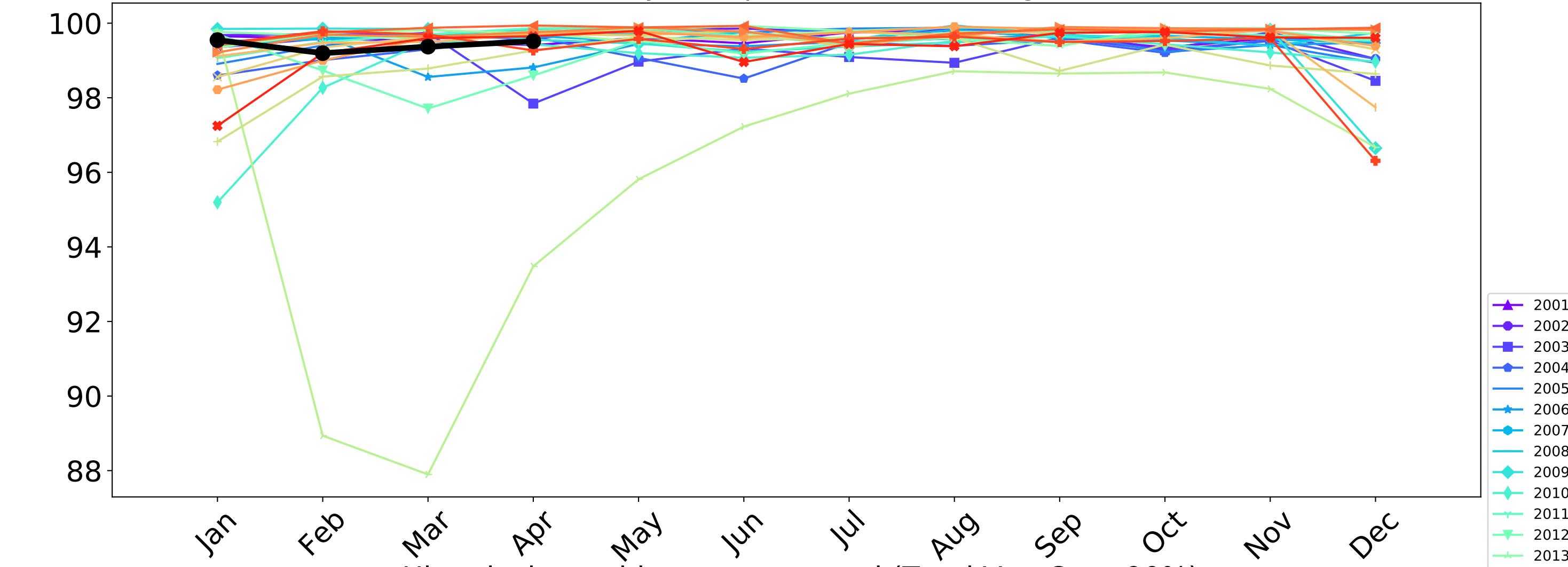
National  
Landcare  
Programme



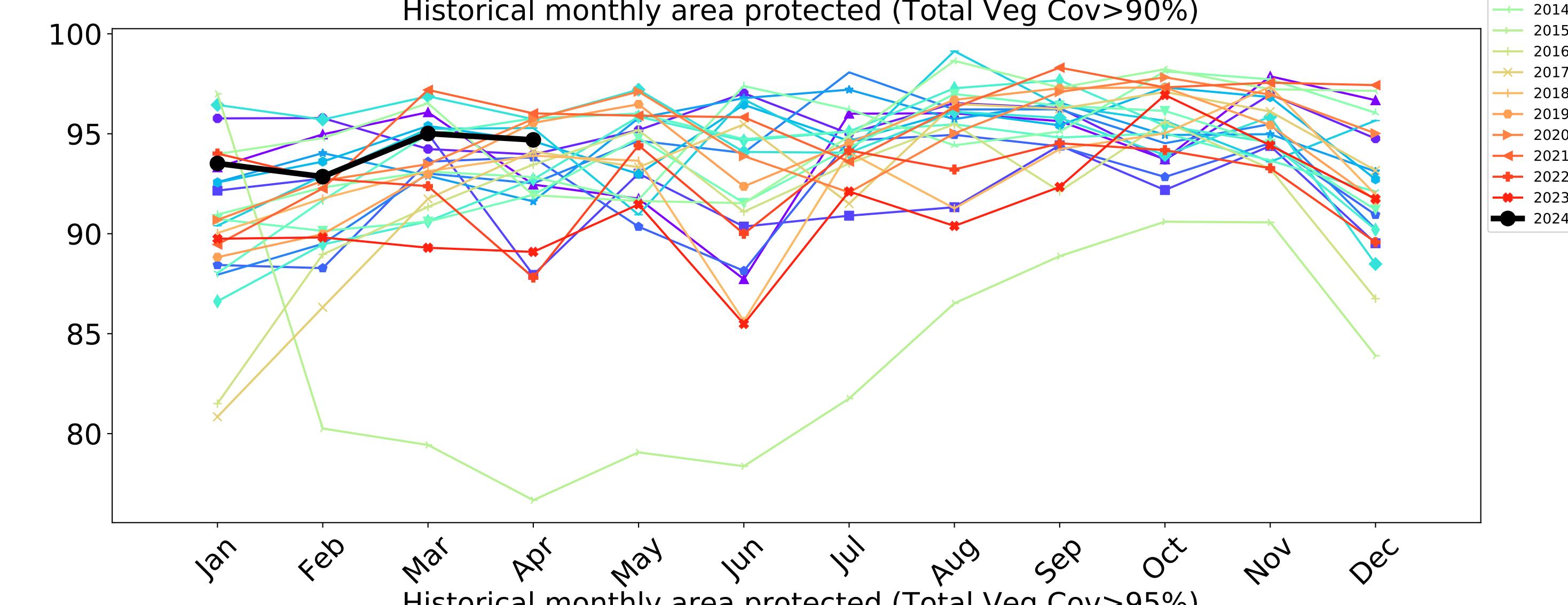
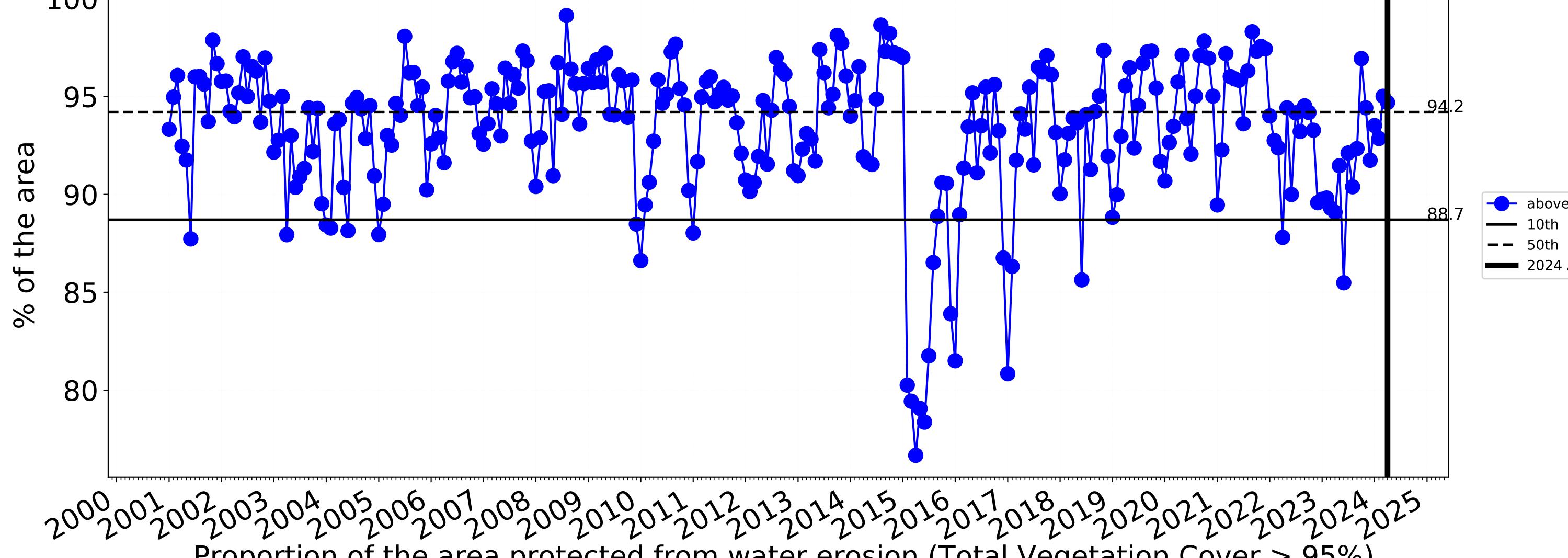
Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



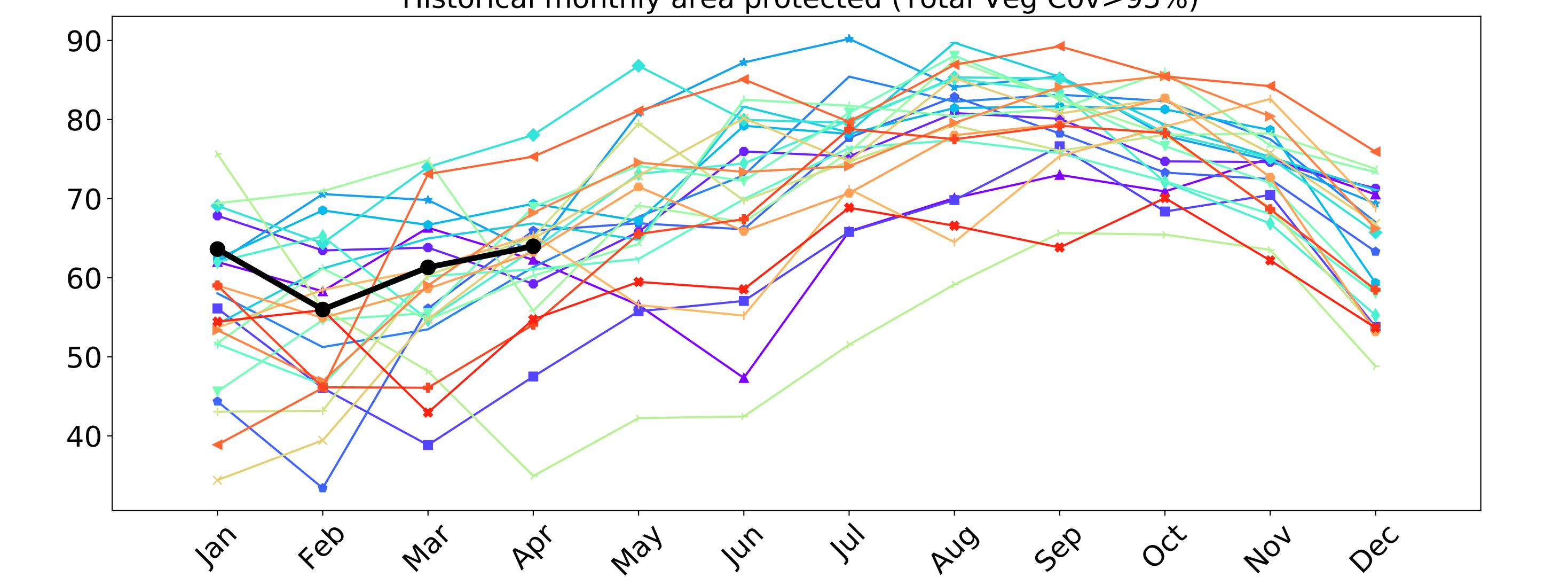
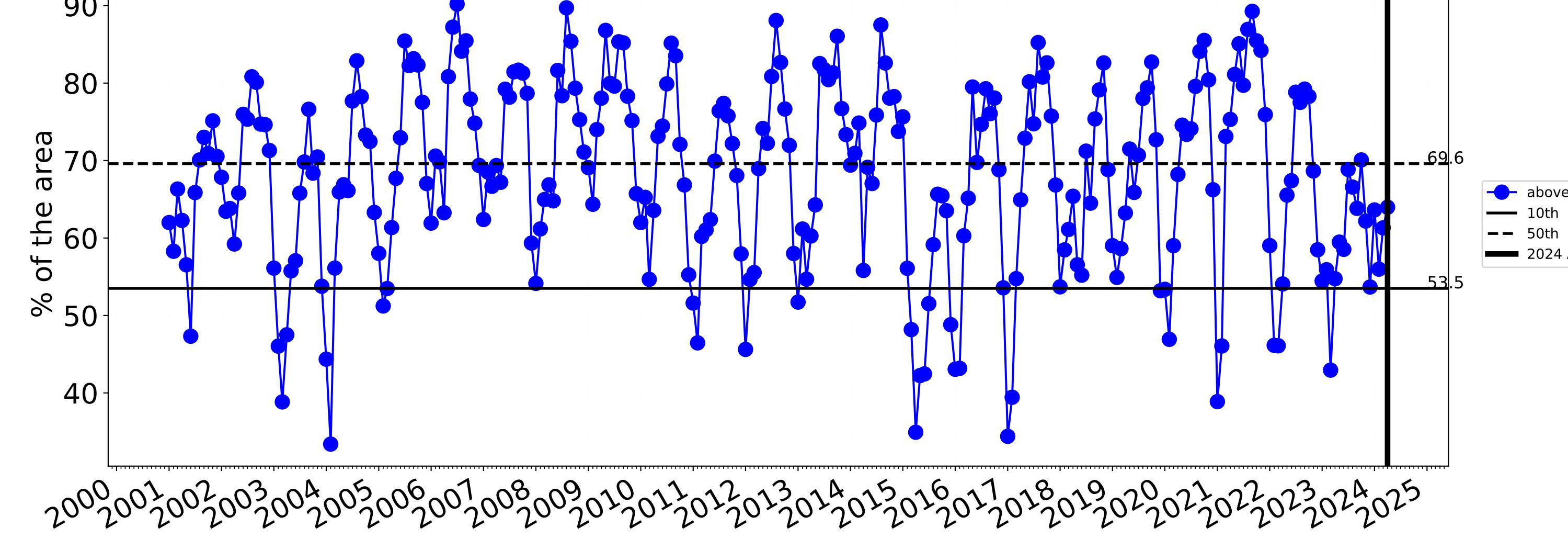
Historical monthly area protected (Total Veg Cov>80%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 90%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 95%)



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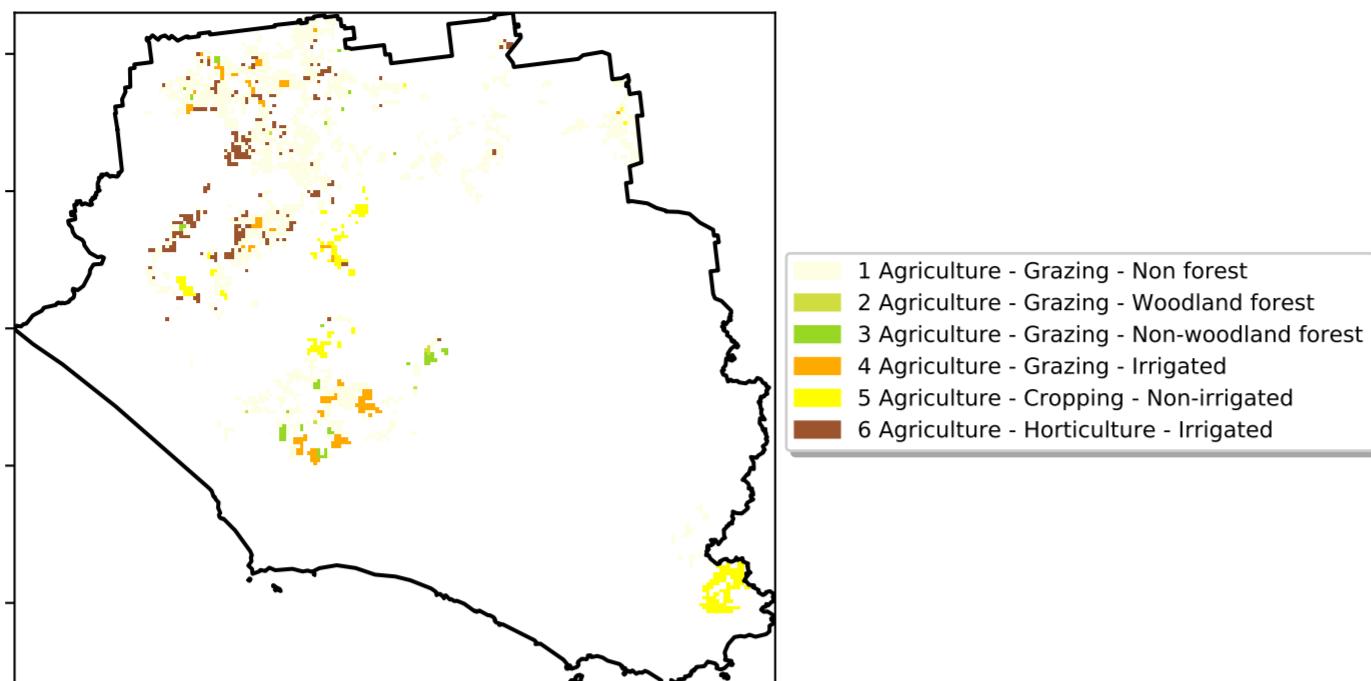
National  
Landcare  
Programme



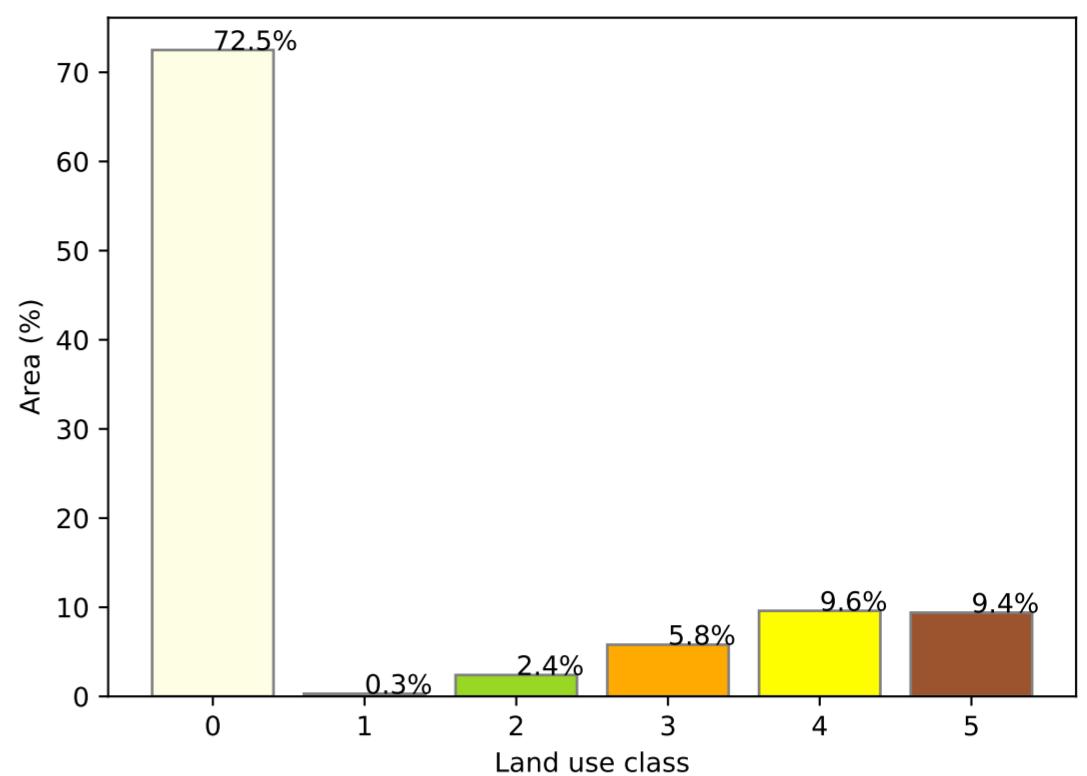
# Agriculture

**Land use and forest cover**

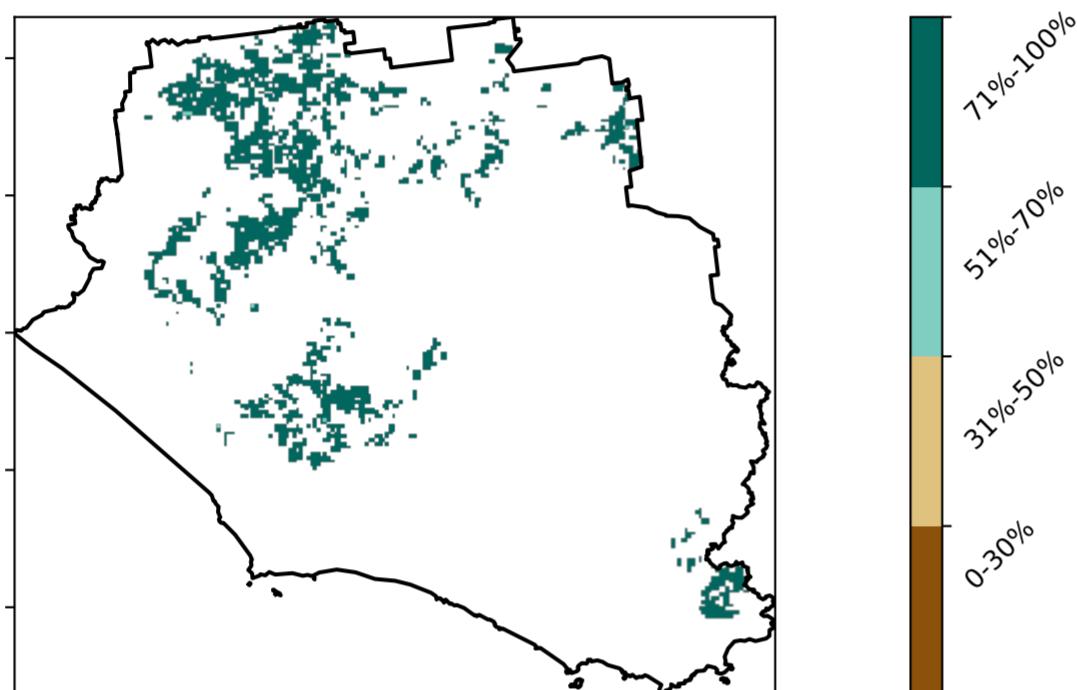
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



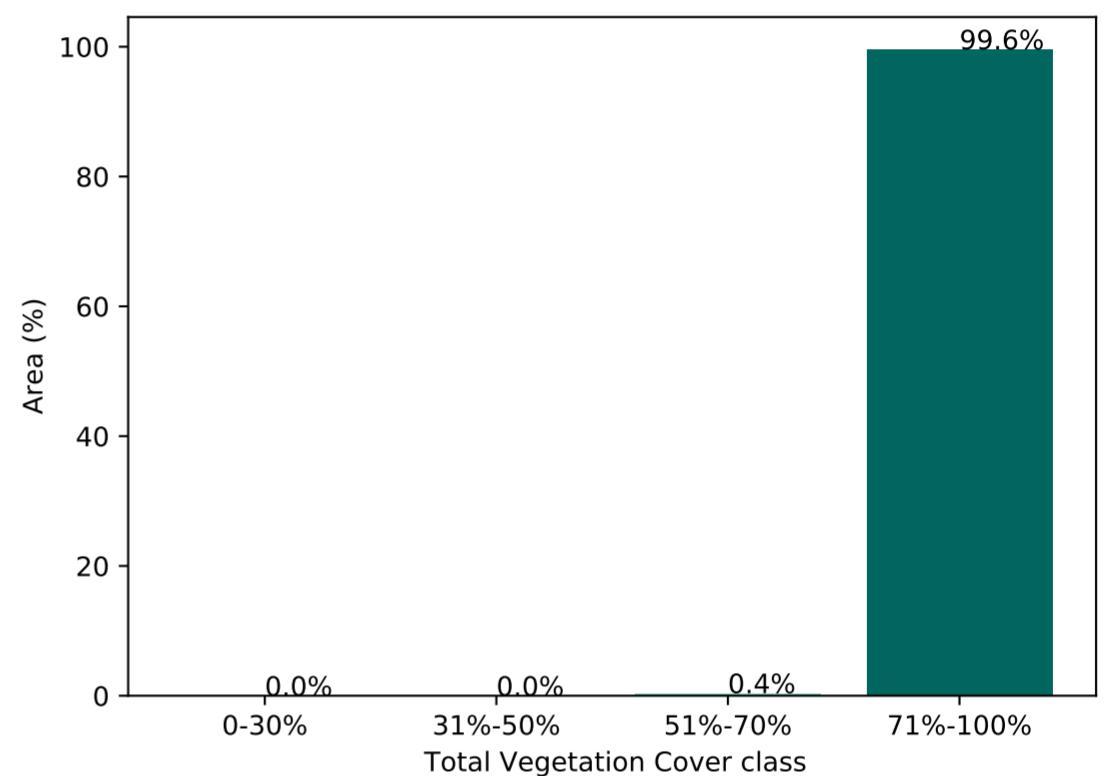
**Proportion of each land class in area**



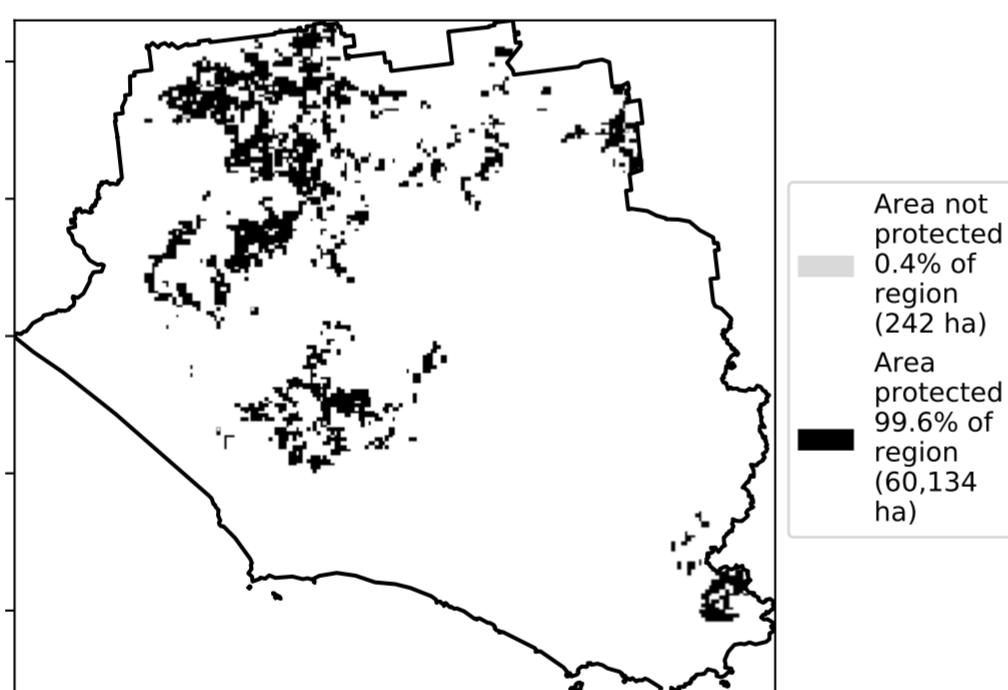
**Total Vegetation Cover [%]**



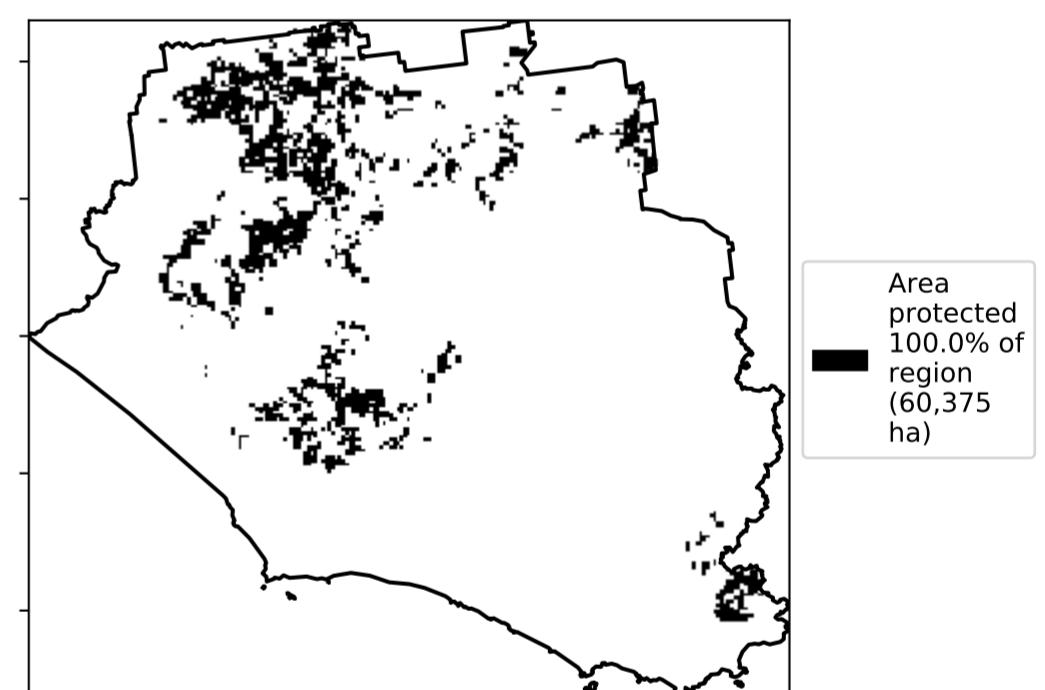
**Proportion of vegetation cover class in area**



**% Area protected from water erosion (>70%)**

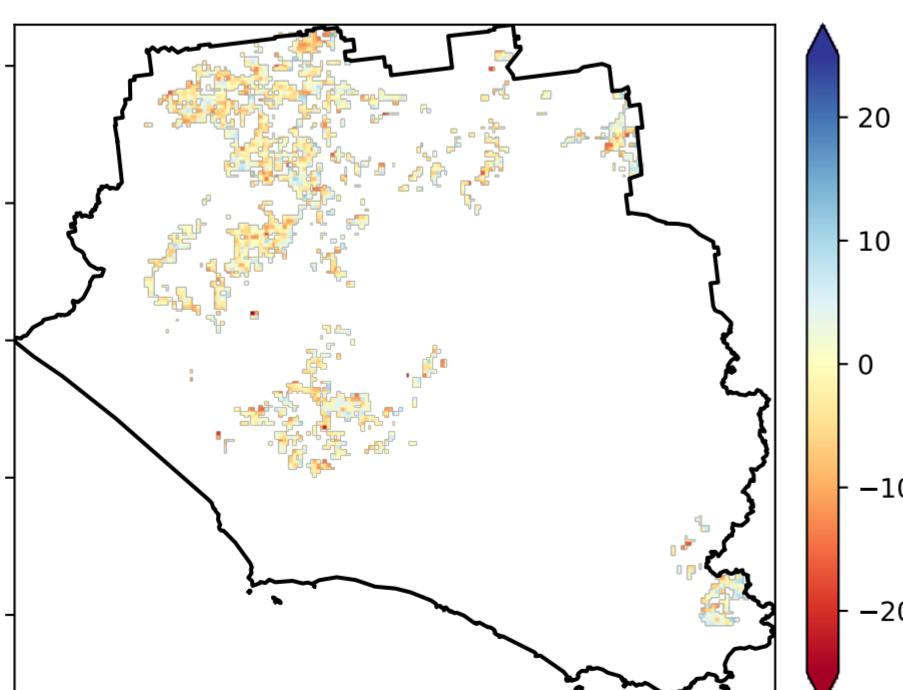


**% Area protected from wind erosion (>50%)**



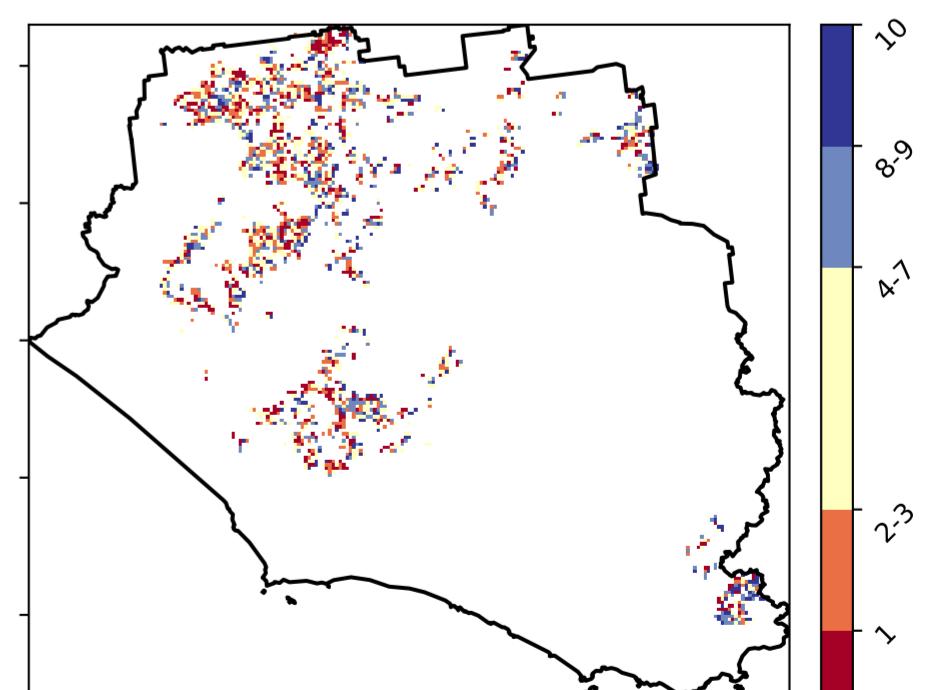
**Total Vegetation Cover Anomaly [%]**

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.

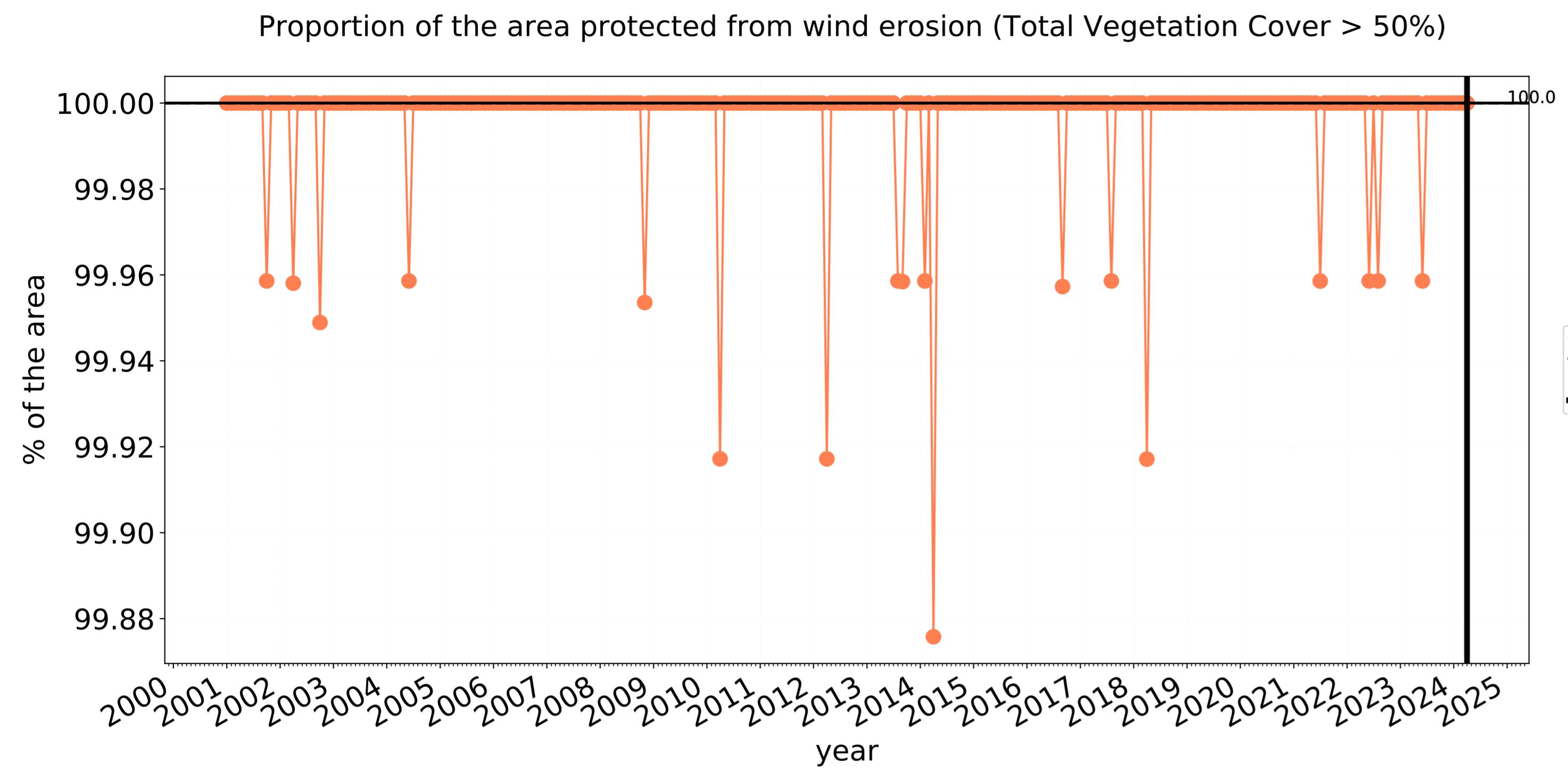


Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

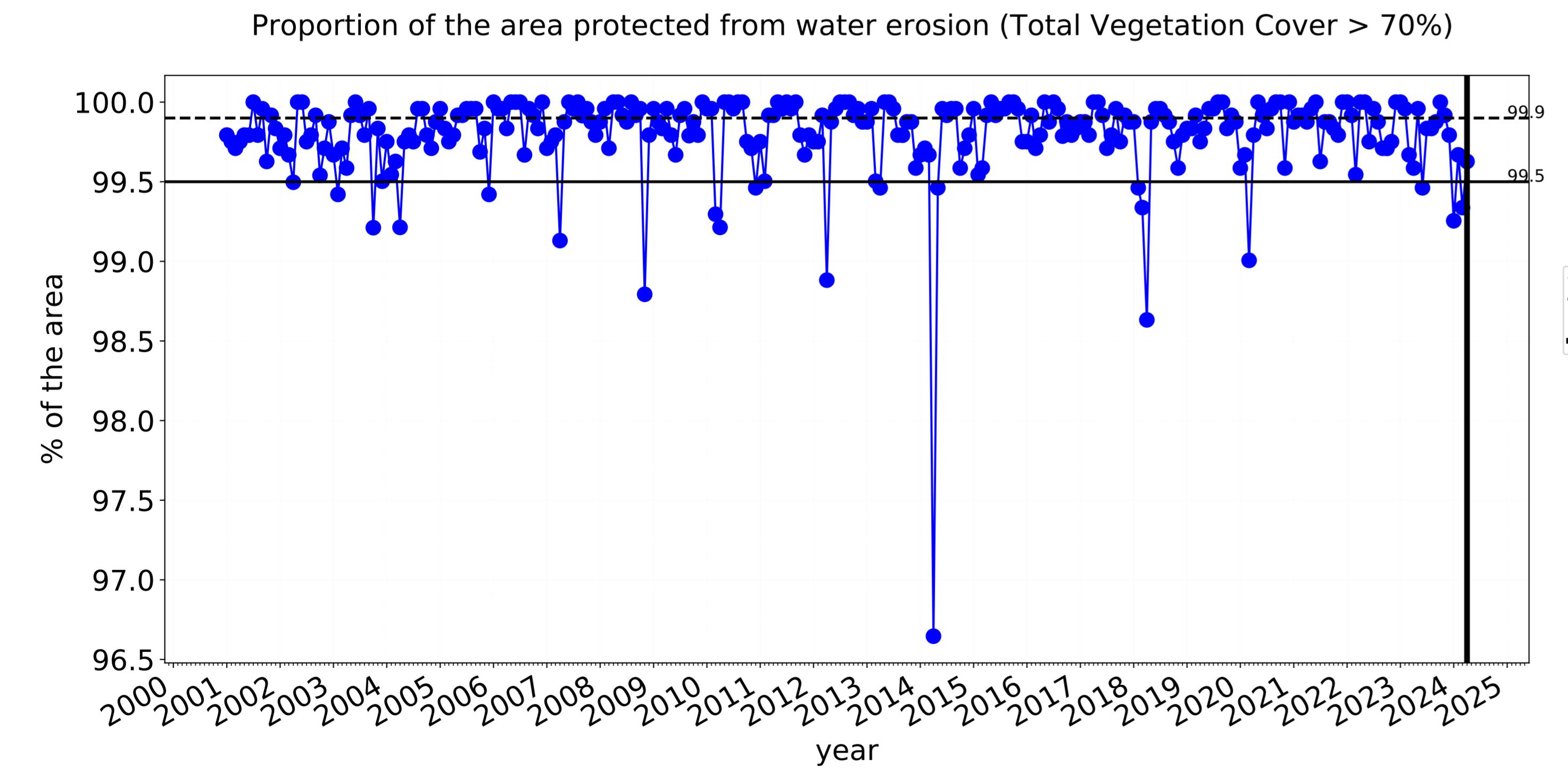
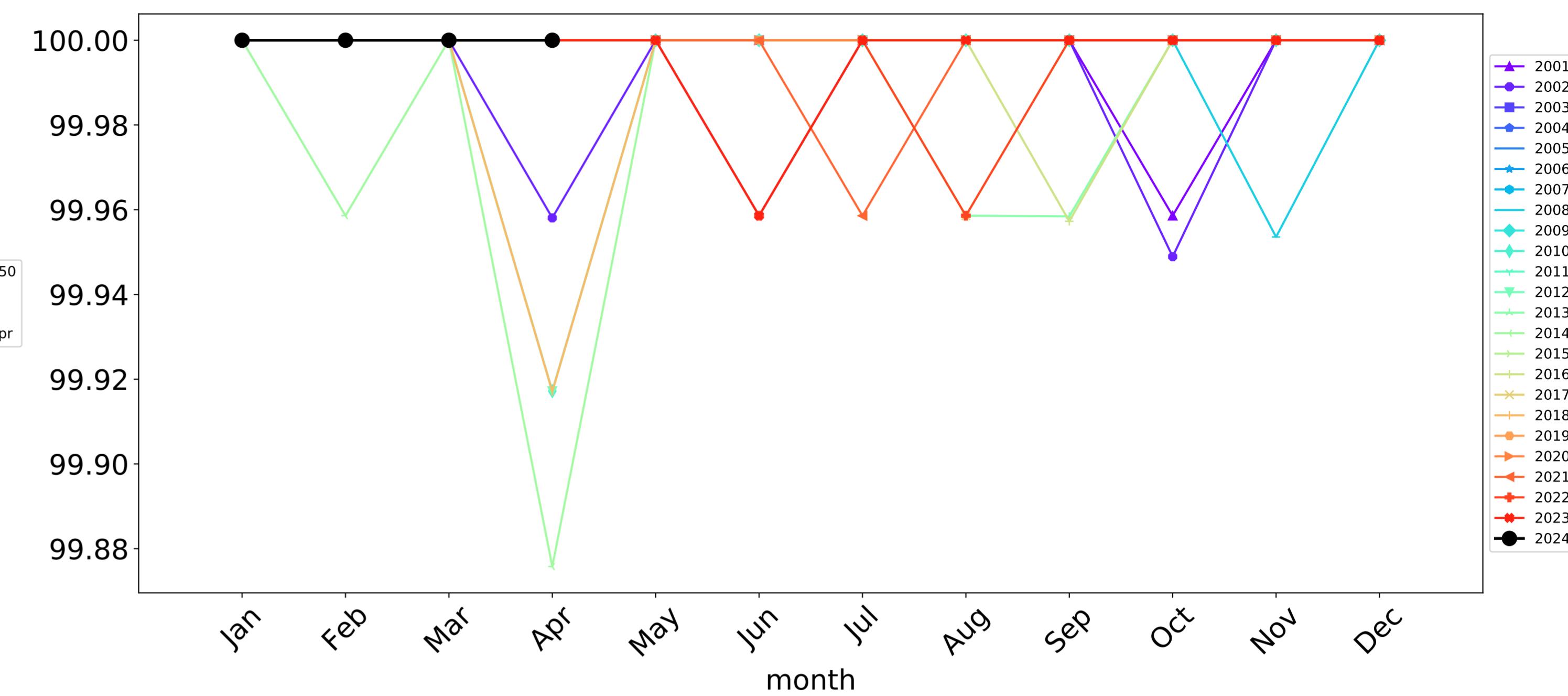
**Total Vegetation Cover Decile [%]**



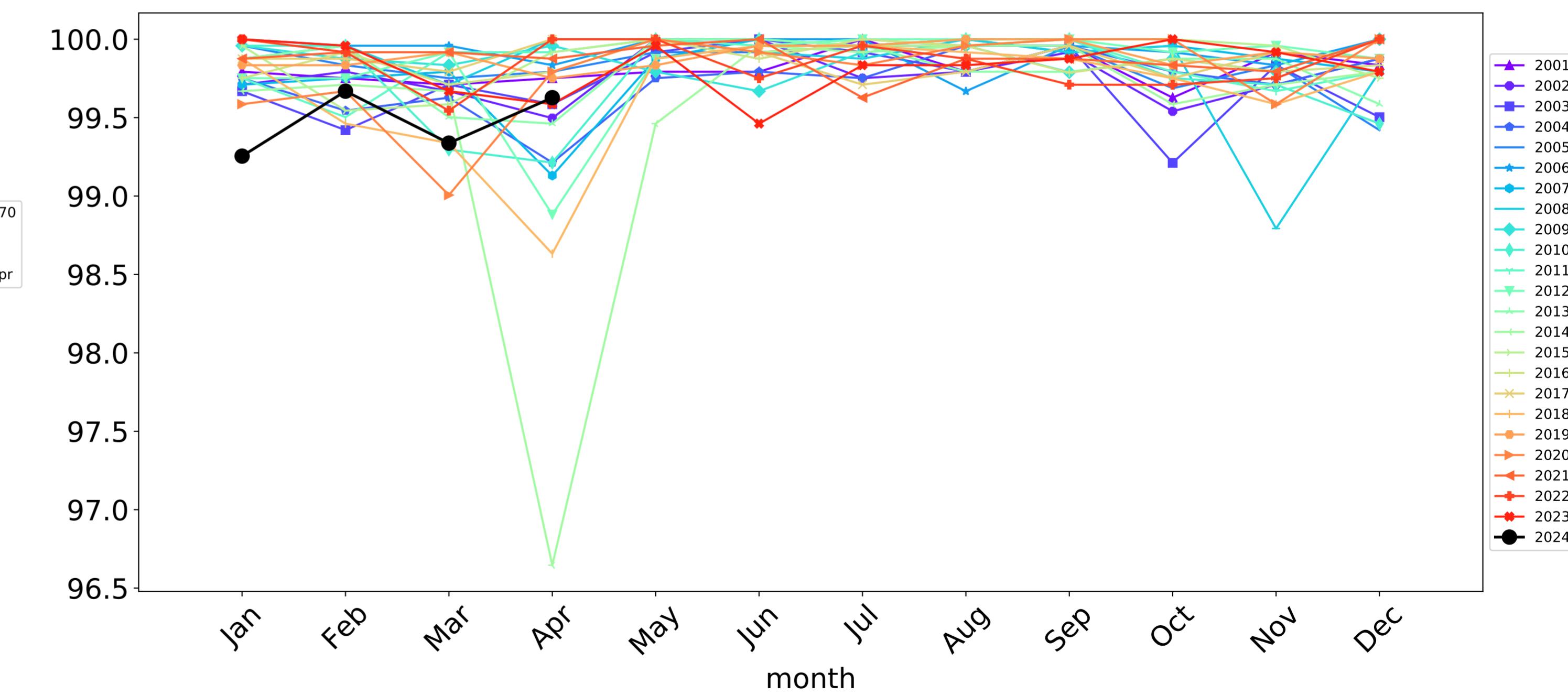
## Agriculture timeseries



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



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



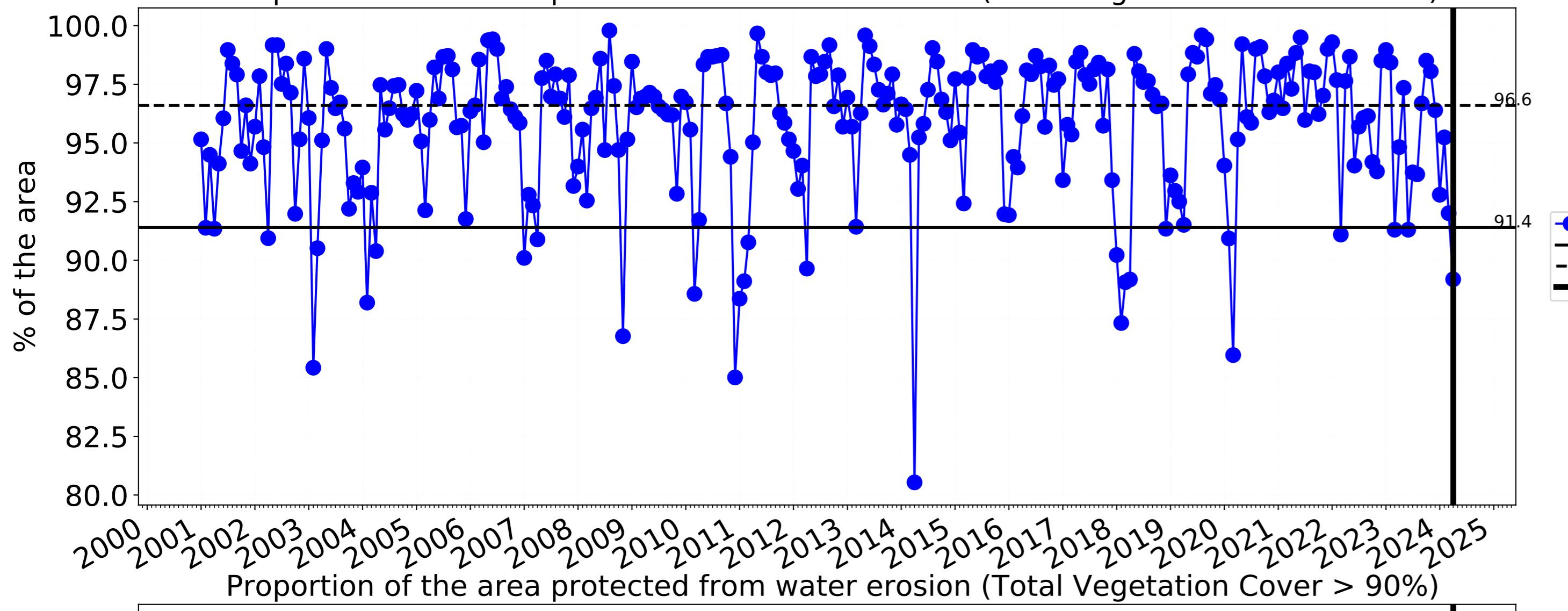
**tern**  
Ecosystem Research Infrastructure



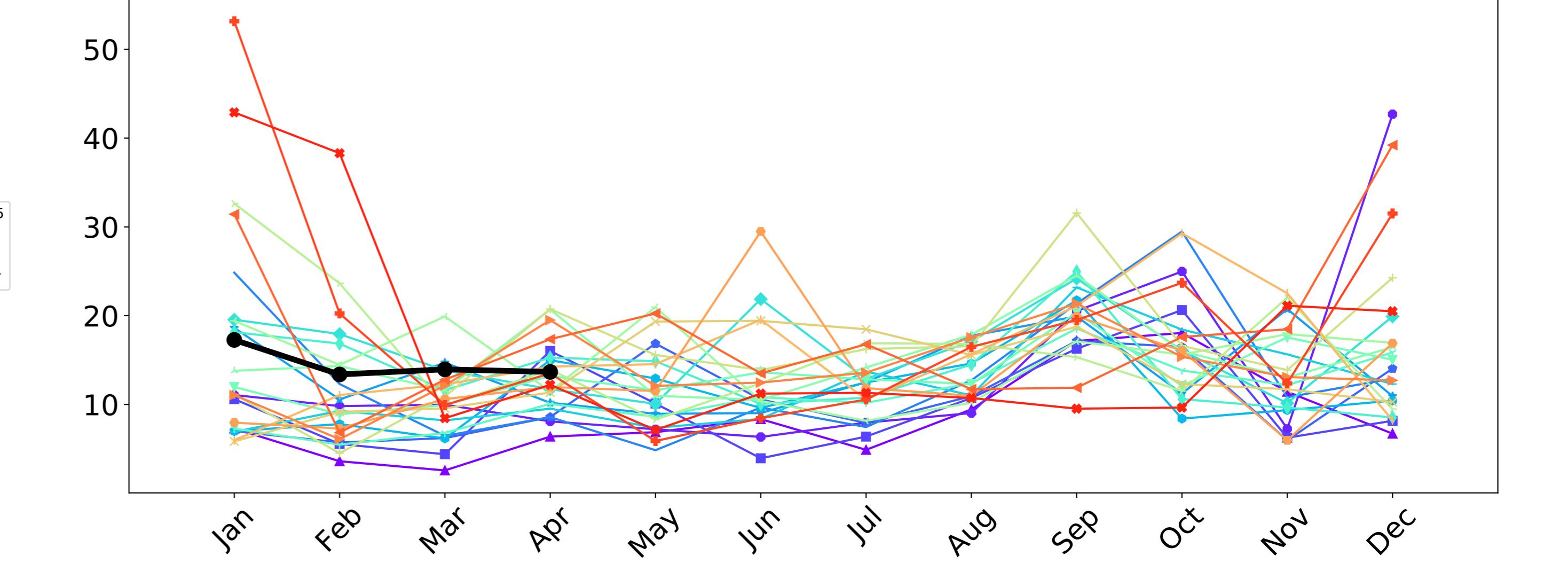
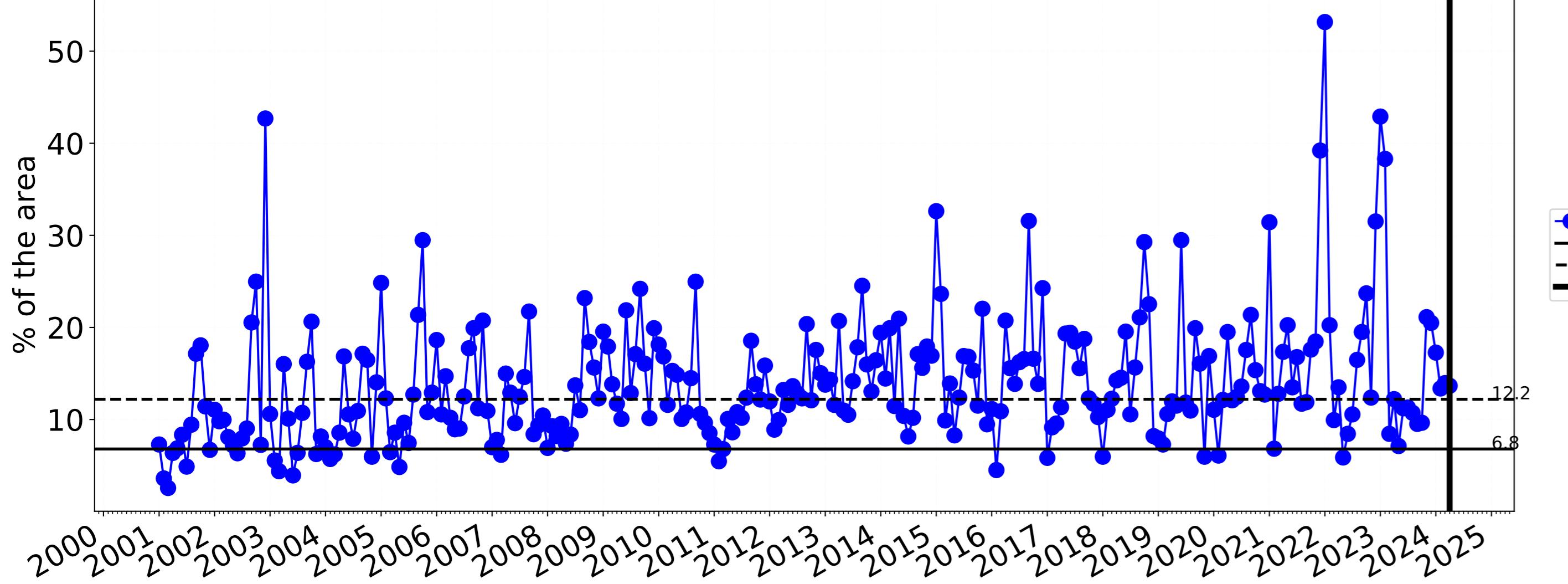
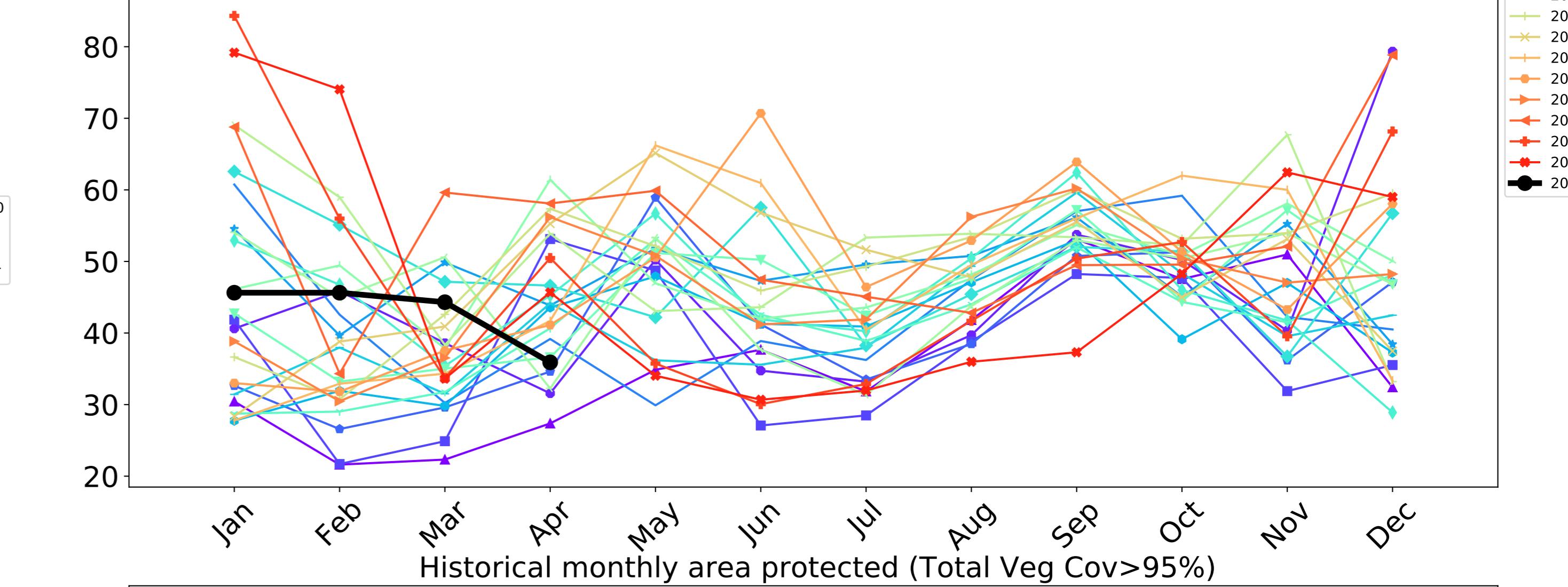
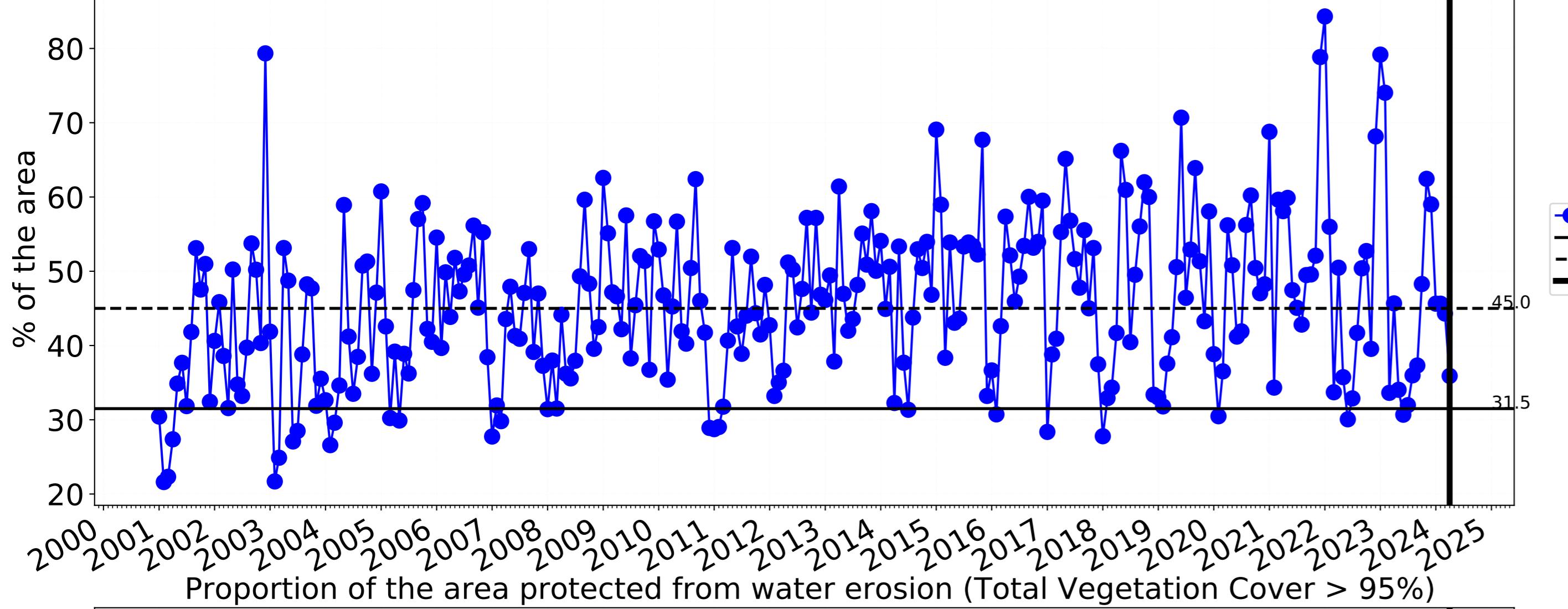
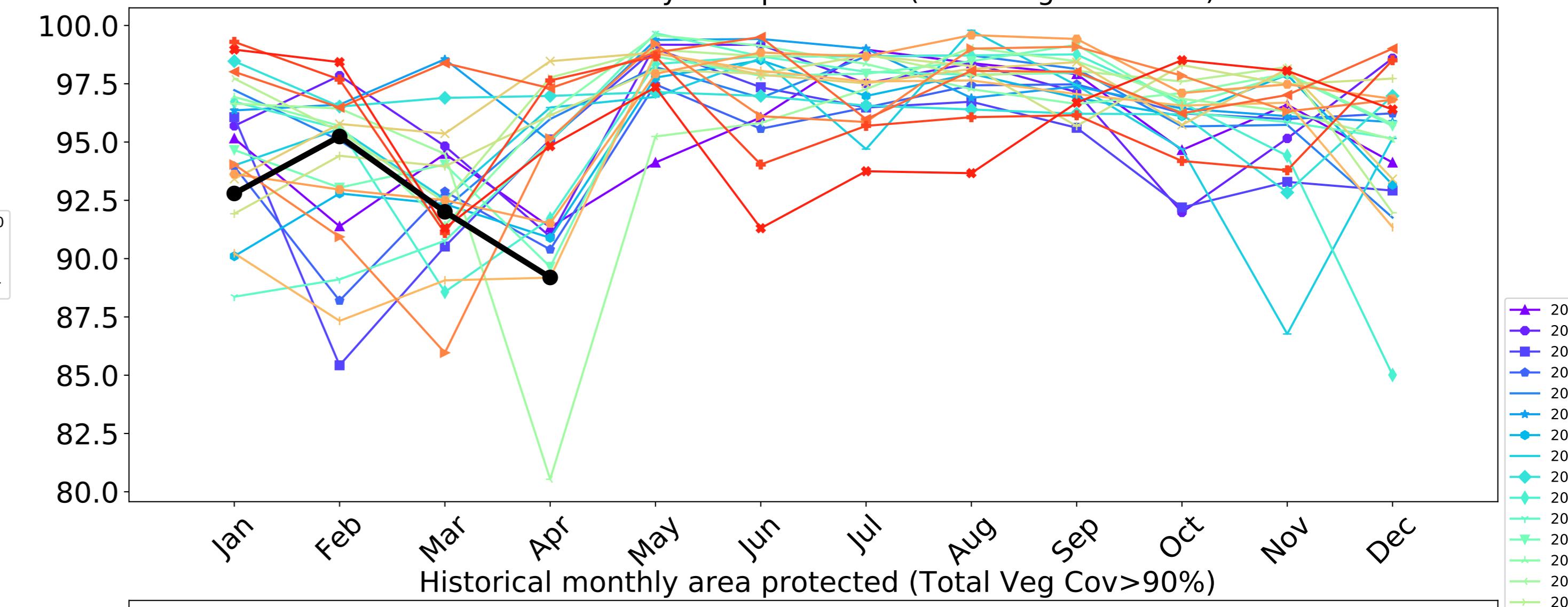
National  
Landcare  
Programme



Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



Historical monthly area protected (Total Veg Cov>80%)

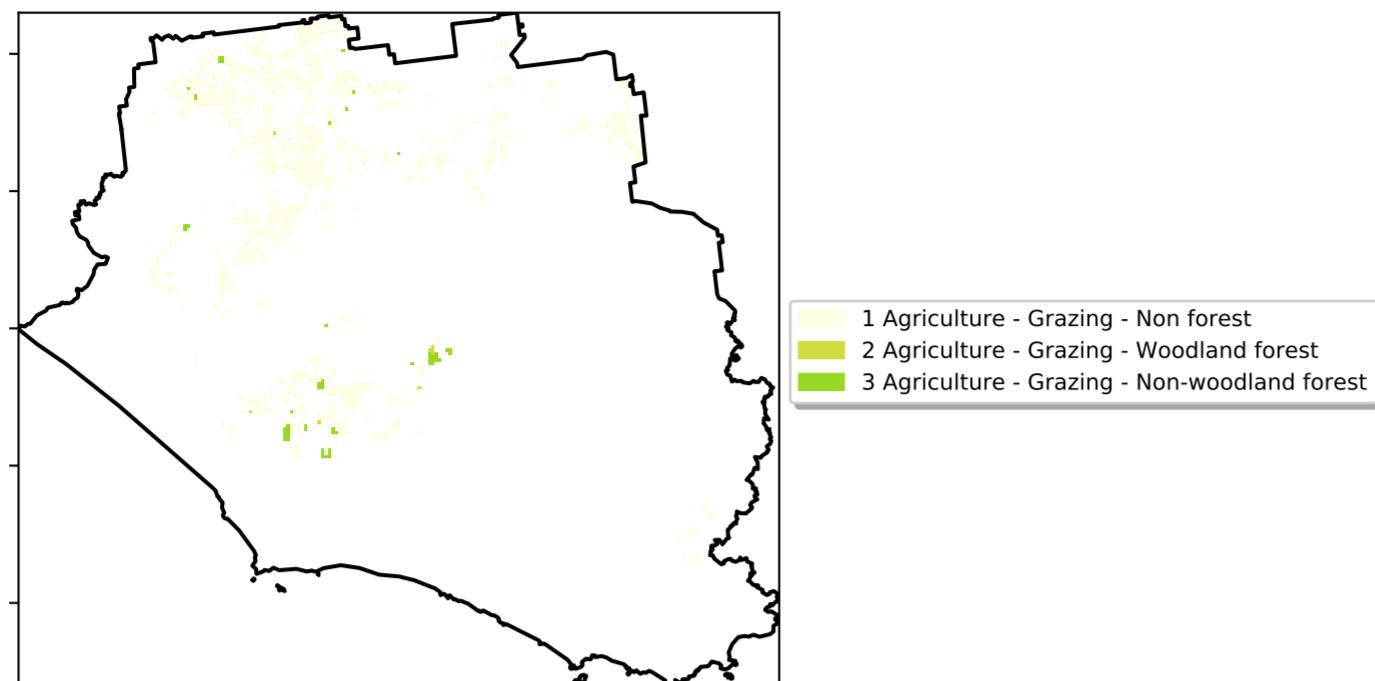


Australian Government

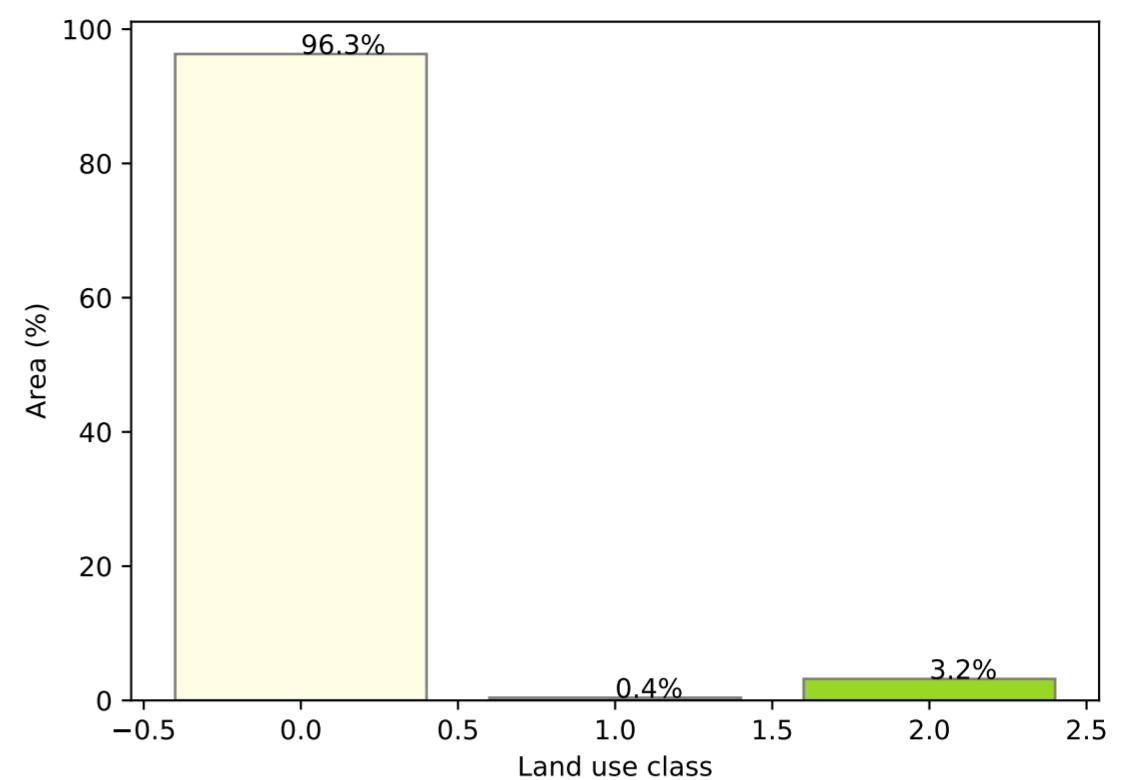


## Grazing

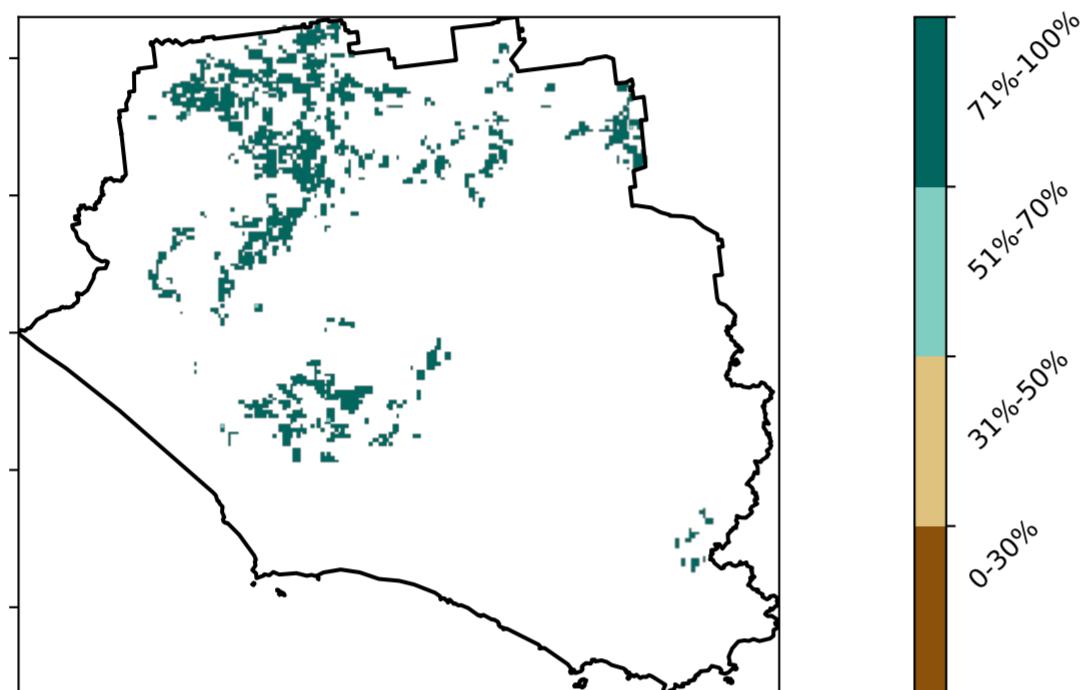
**Land use and forest cover**



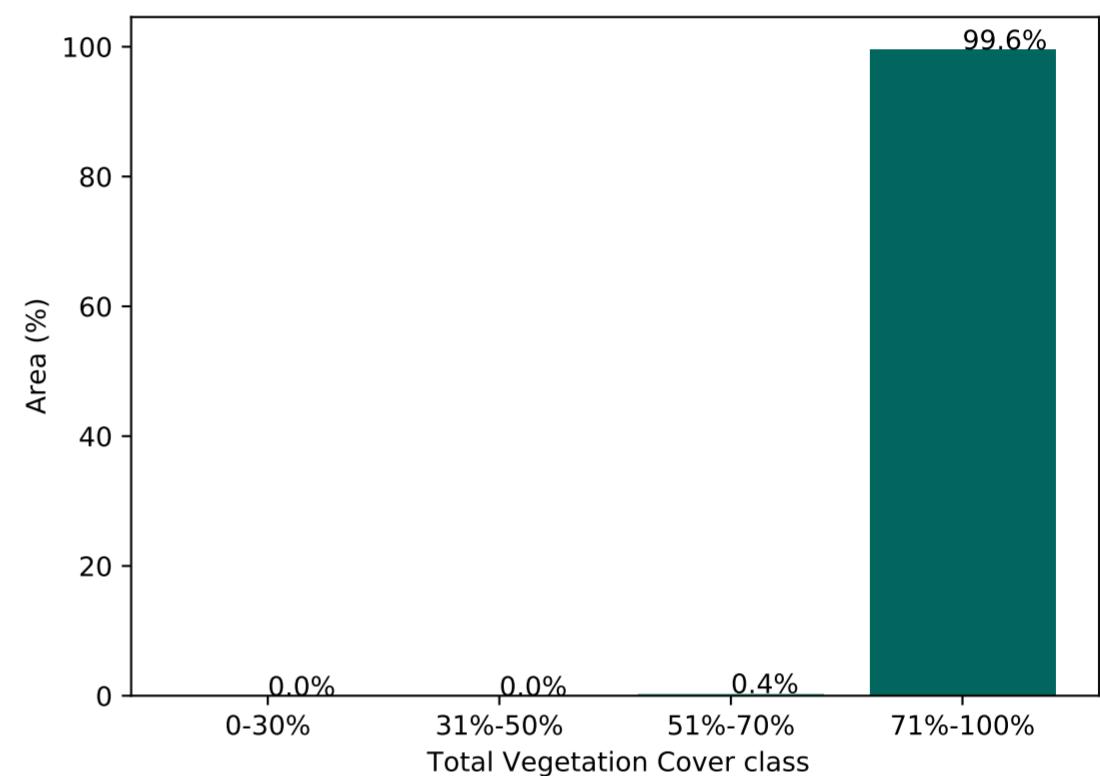
**Proportion of each land class in area**



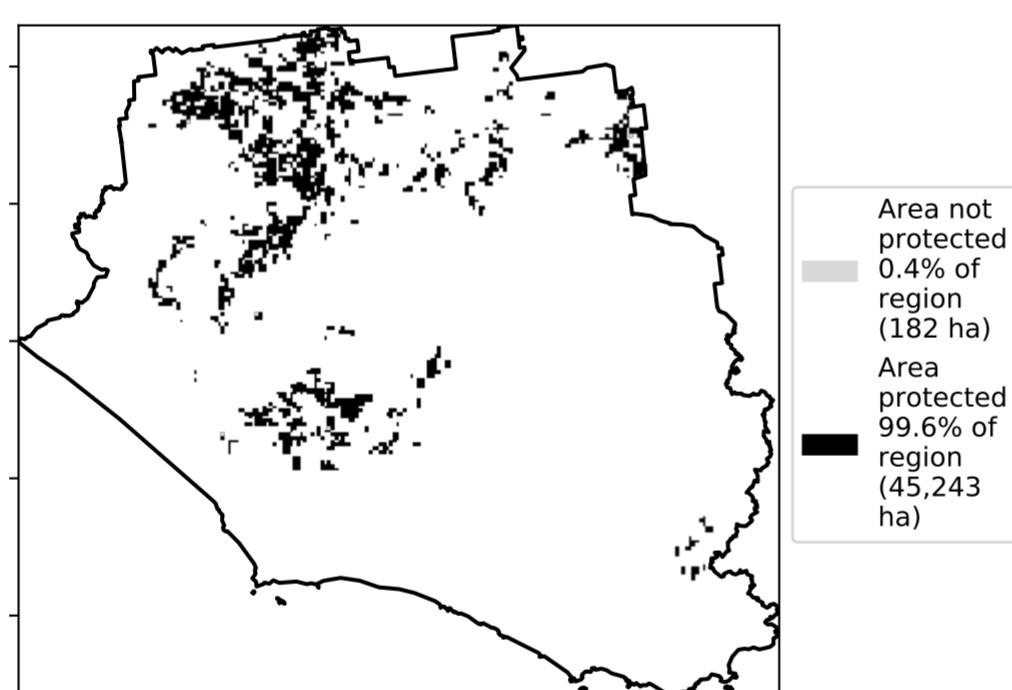
**Total Vegetation Cover [%]**



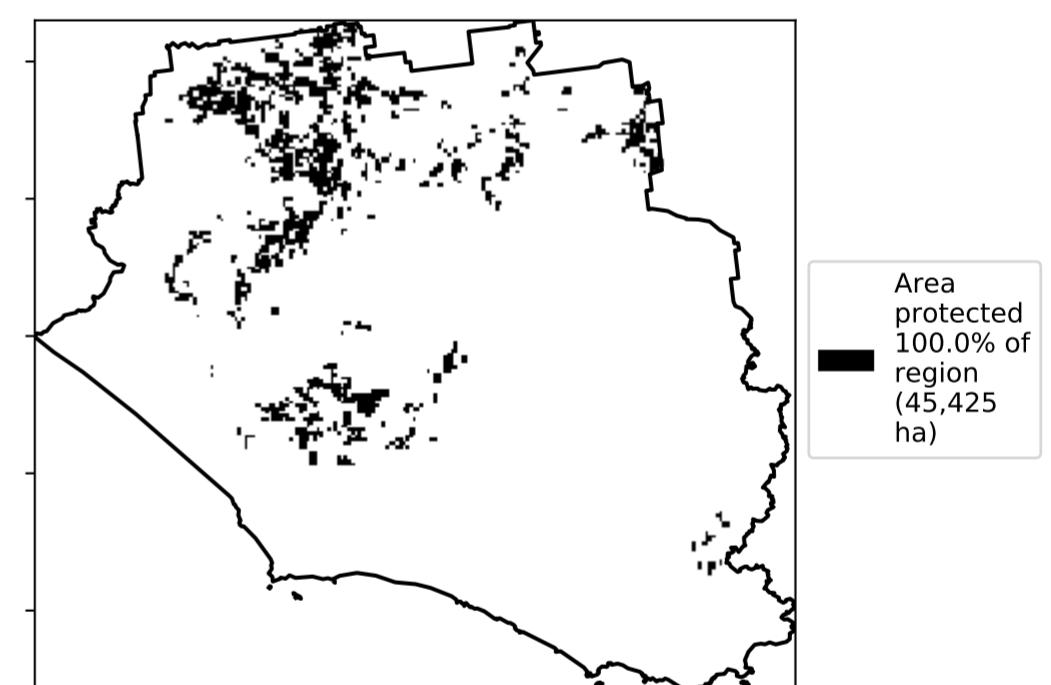
**Proportion of vegetation cover class in area**



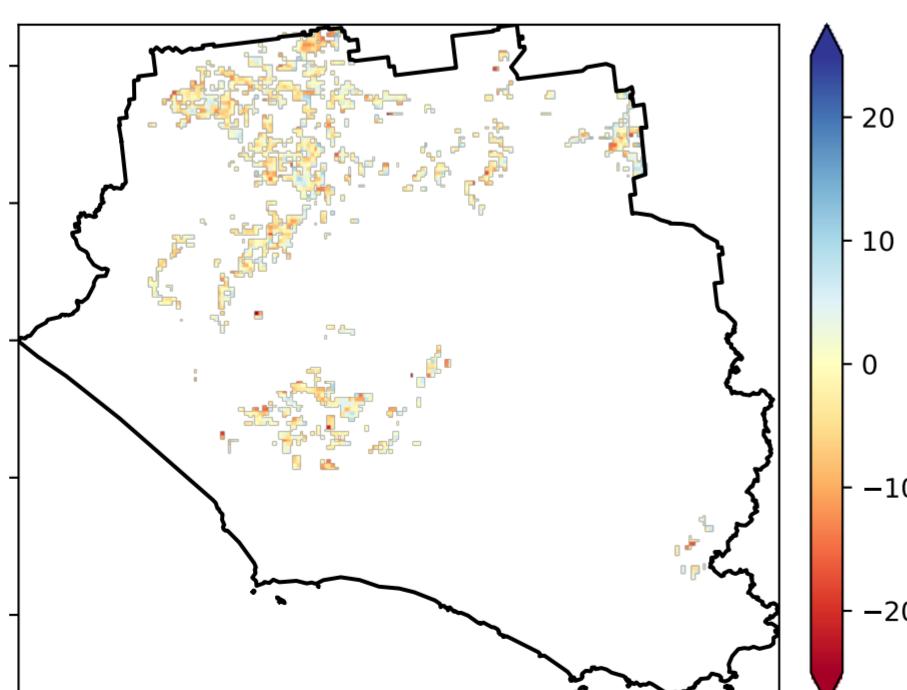
**% Area protected from water erosion (>70%)**



**% Area protected from wind erosion (>50%)**

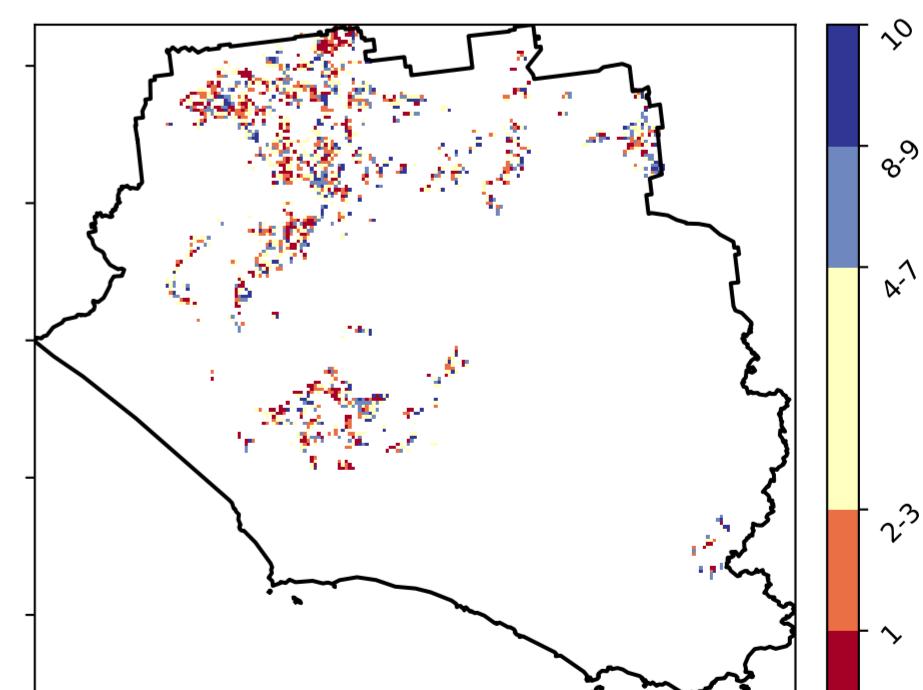


**Total Vegetation Cover Anomaly [%]**



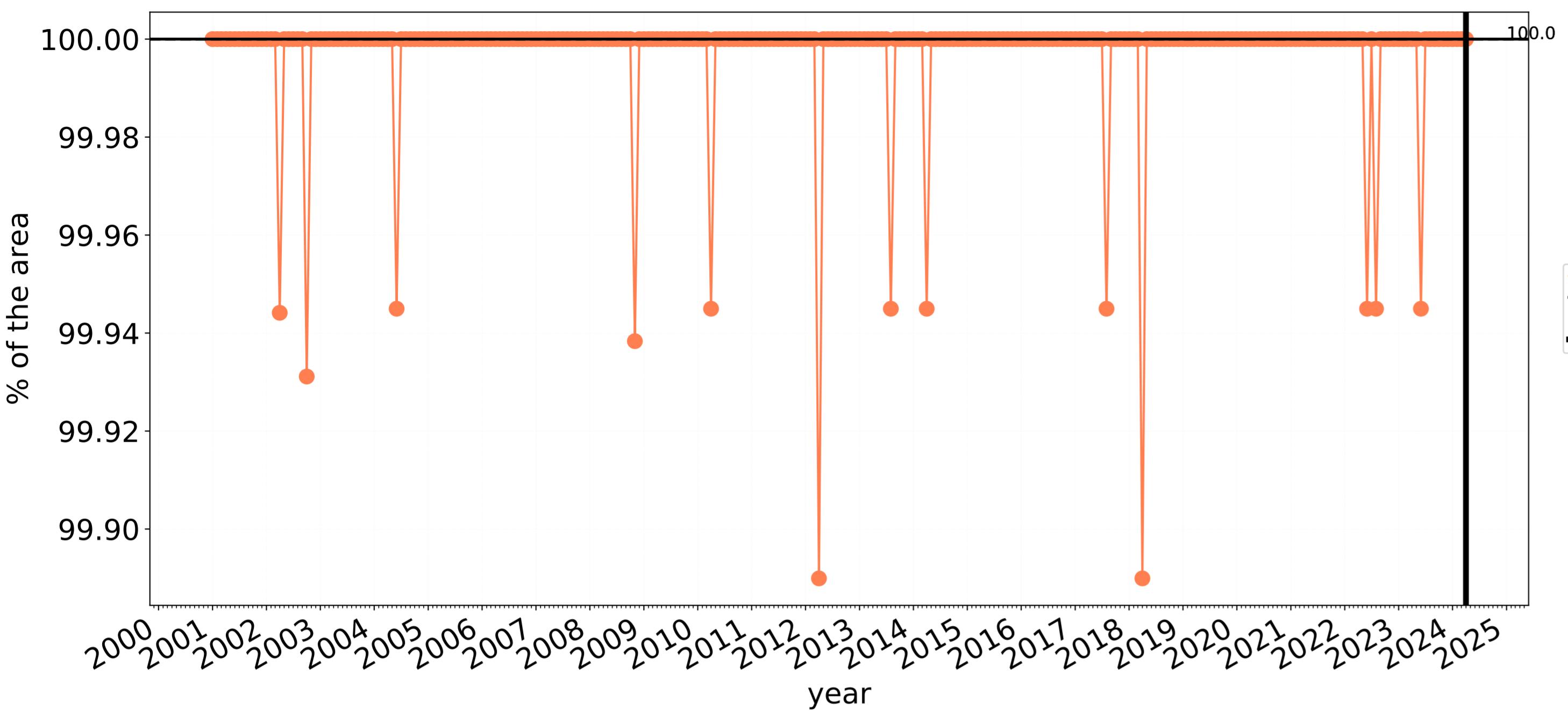
Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

**Total Vegetation Cover Decile [%]**

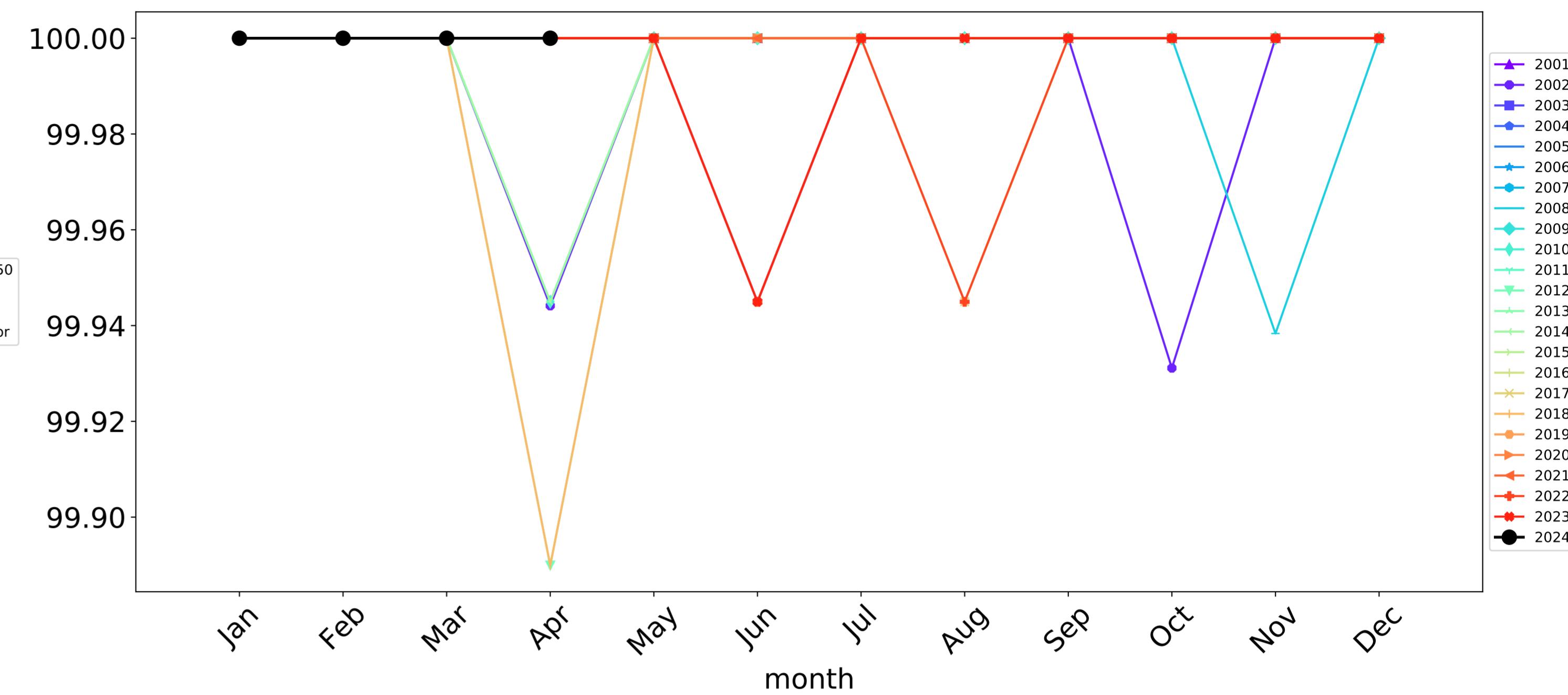


### Grazing timeseries

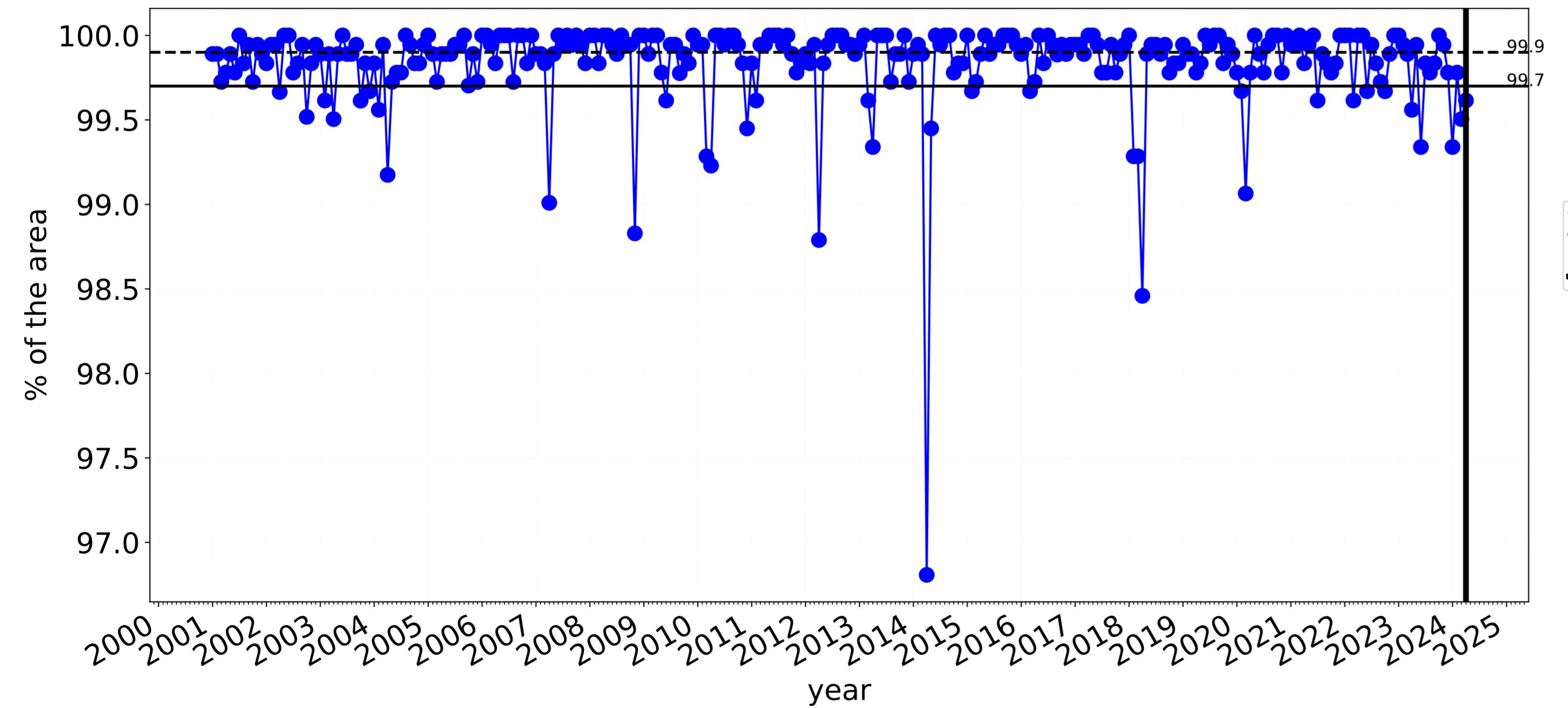
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



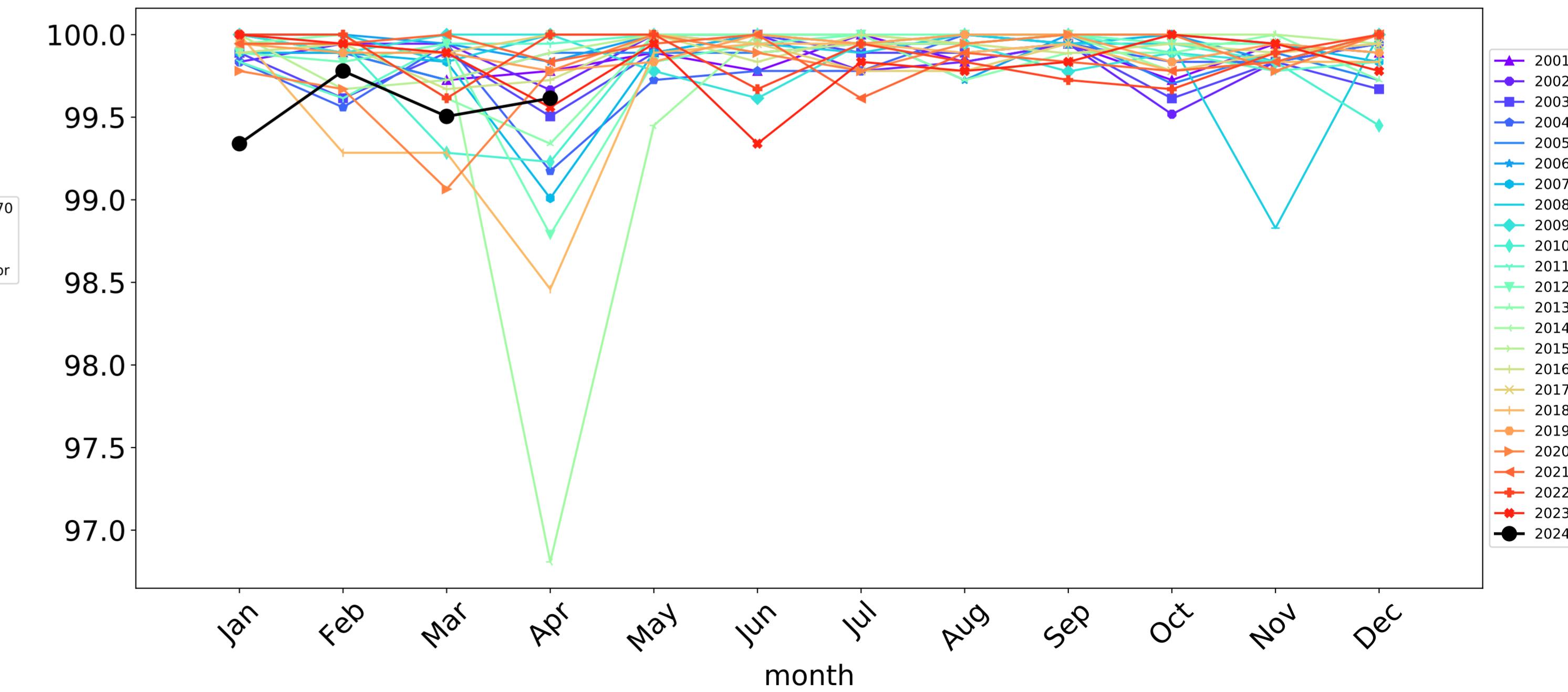
Wind erosion historical monthly area protected (Total Veg Cov >50%)



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



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



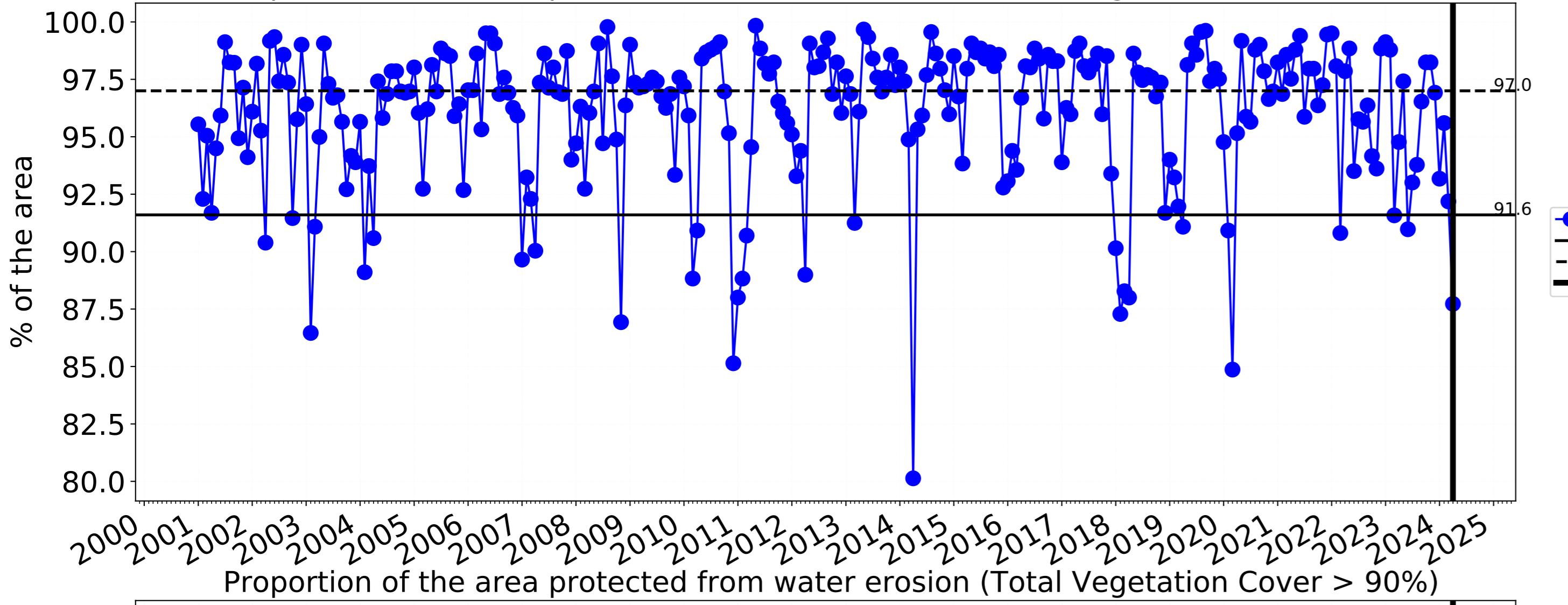
**tern**  
Ecosystem Research Infrastructure



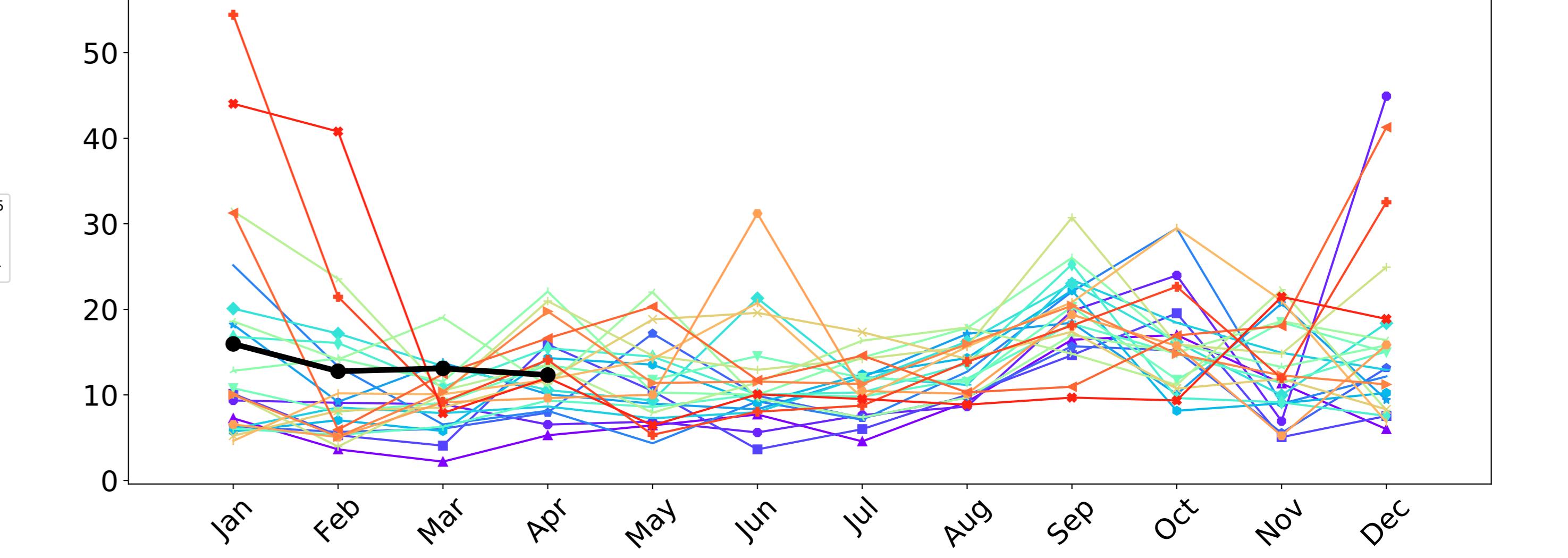
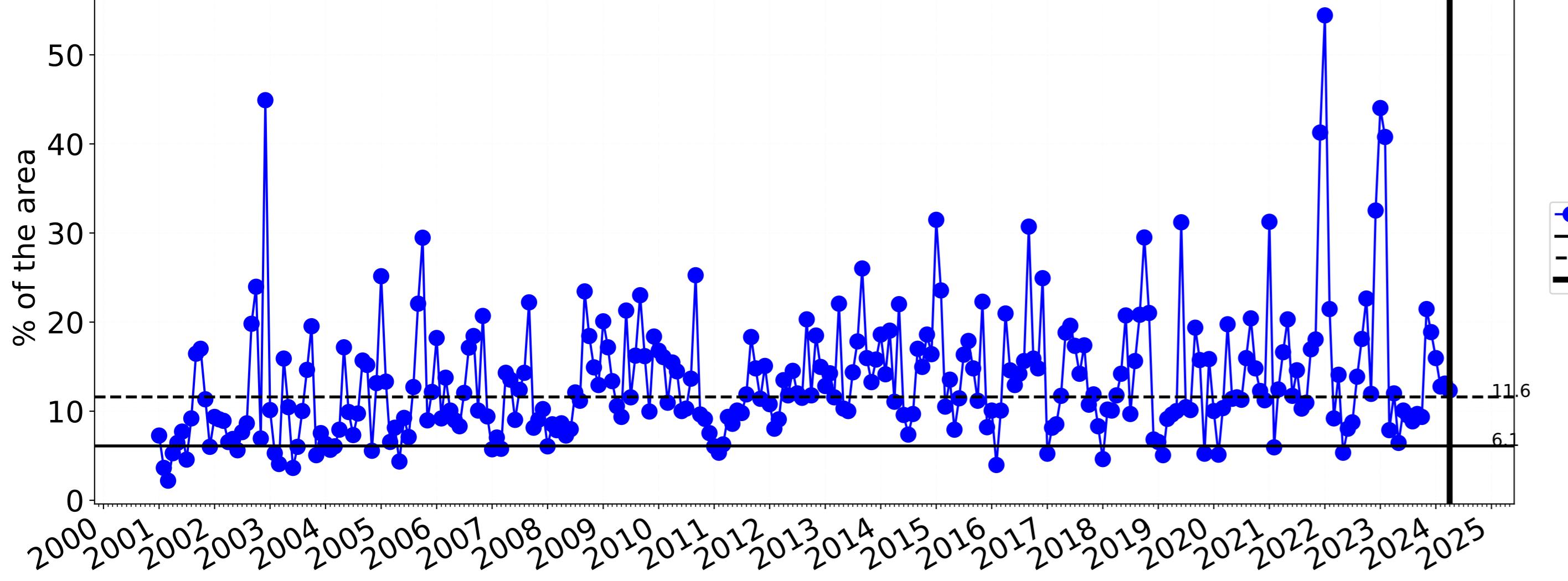
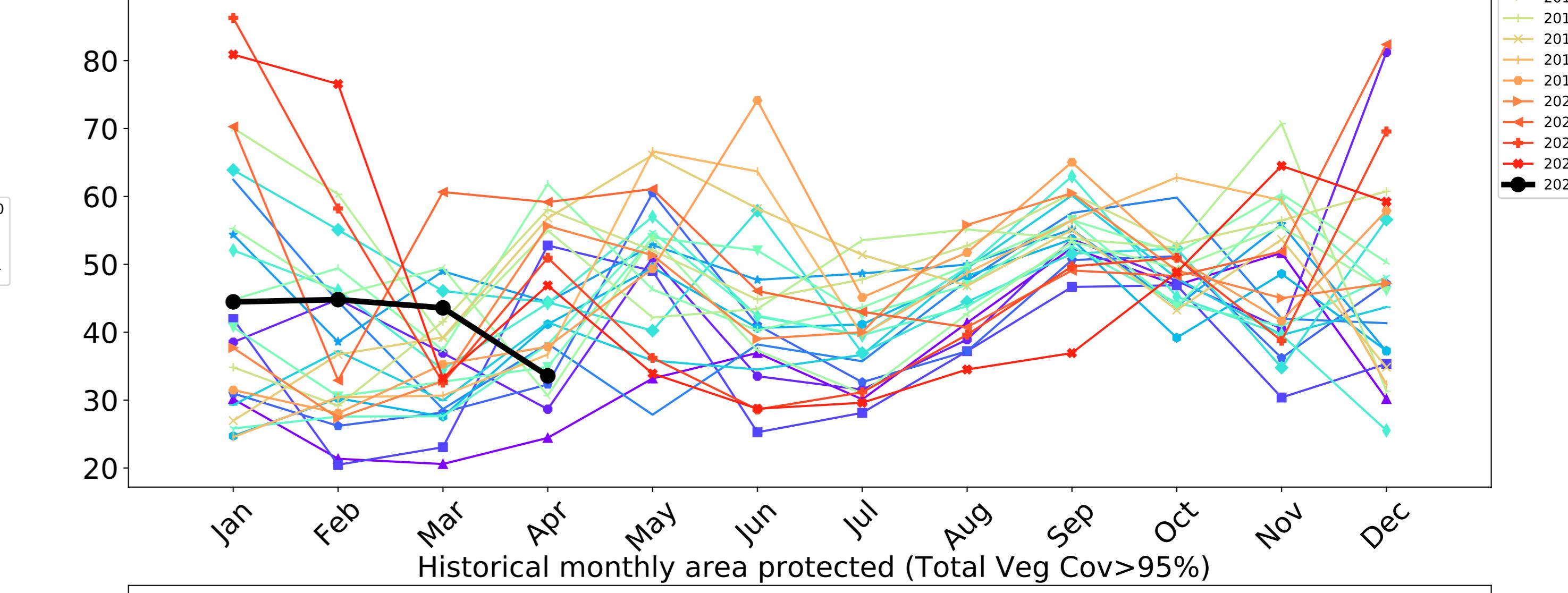
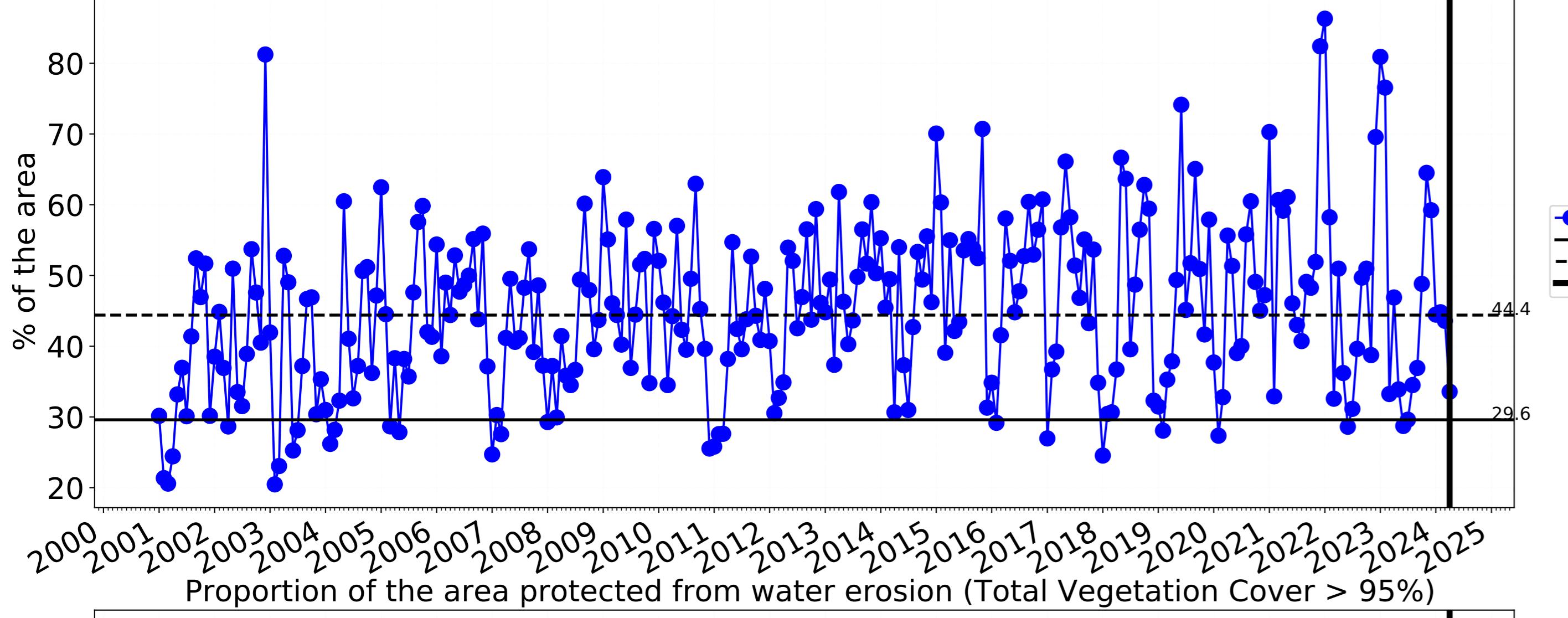
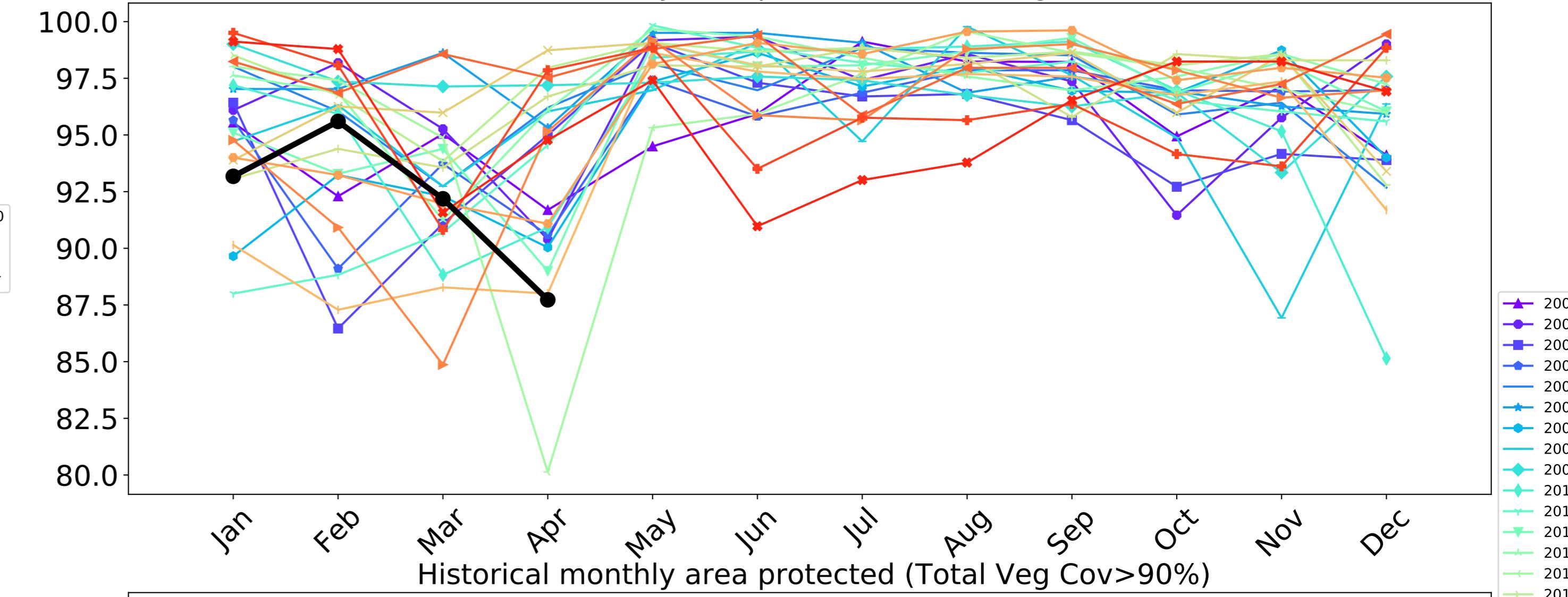
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Landcare  
Programme



Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



Historical monthly area protected (Total Veg Cov>80%)



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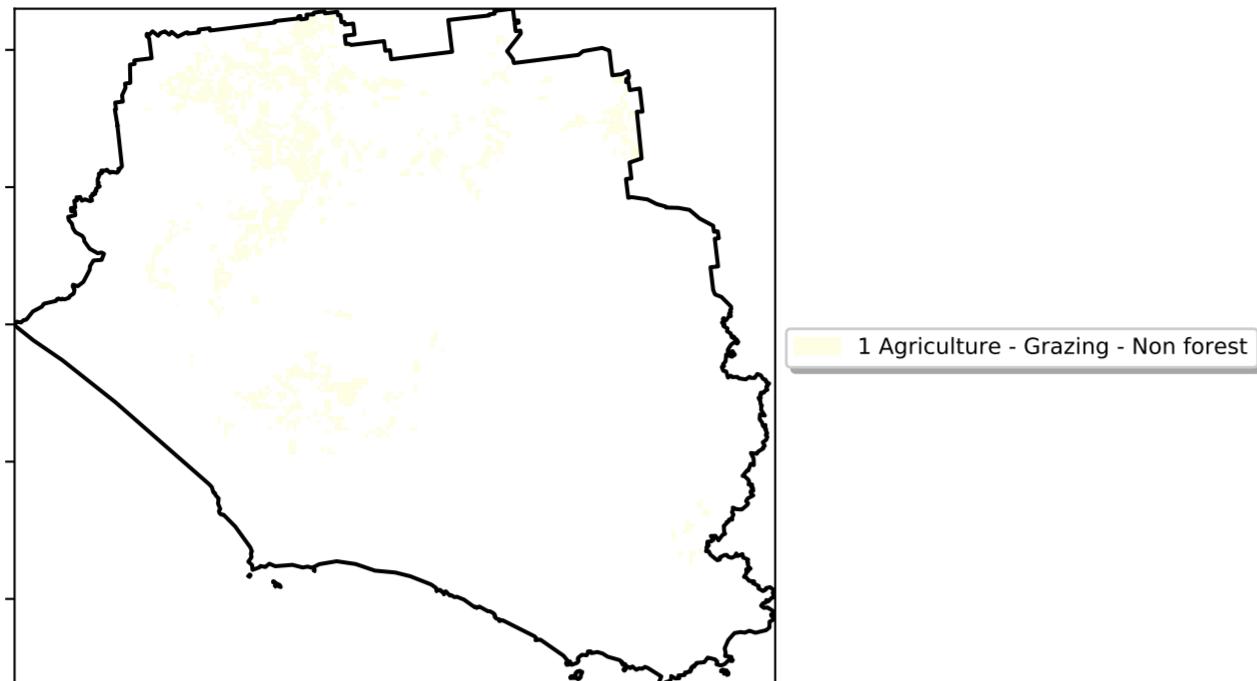
National  
Landcare  
Programme



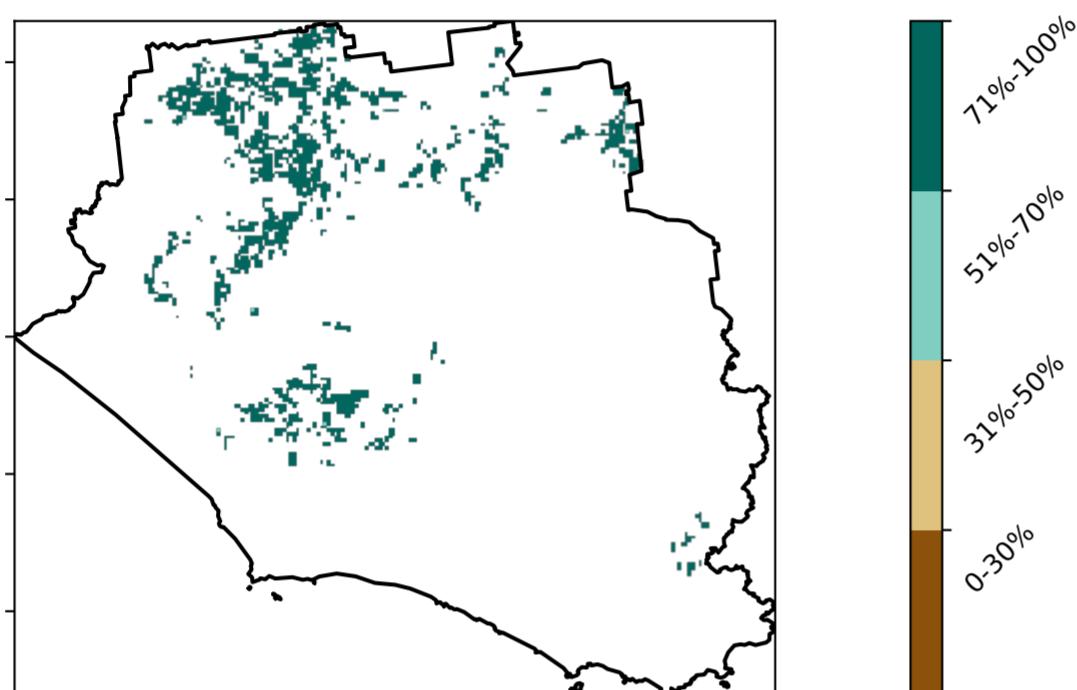
## Grazing non forest

**Land use and forest cover**

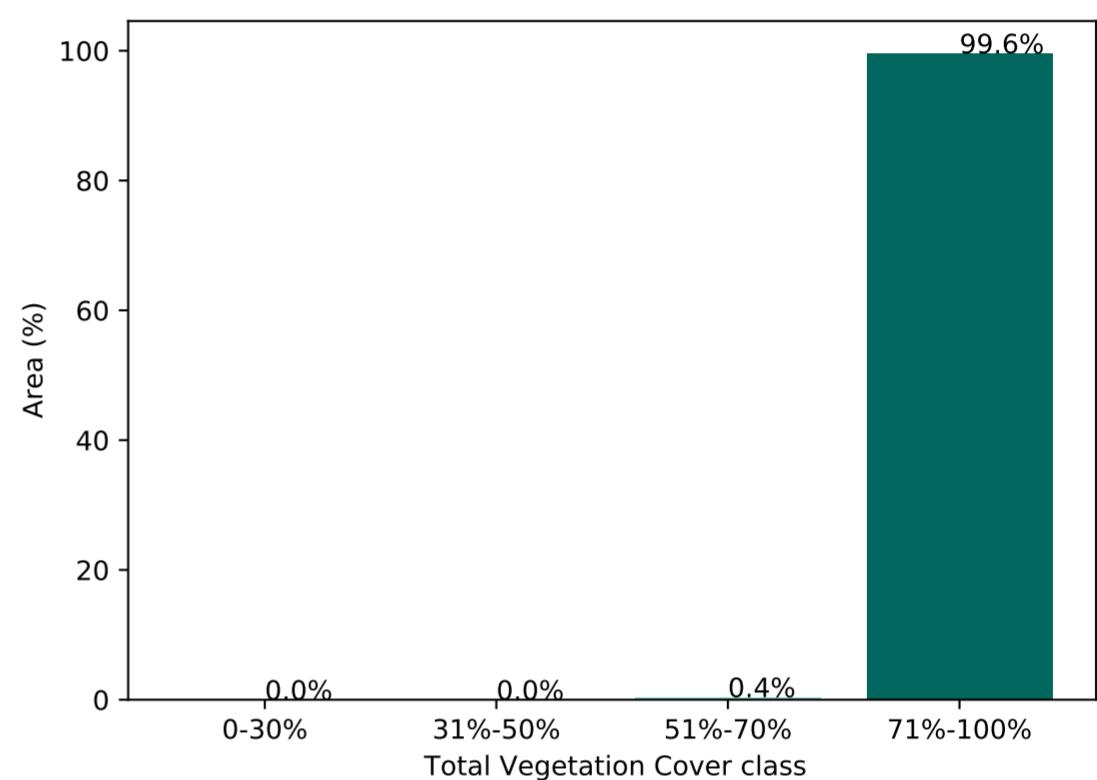
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



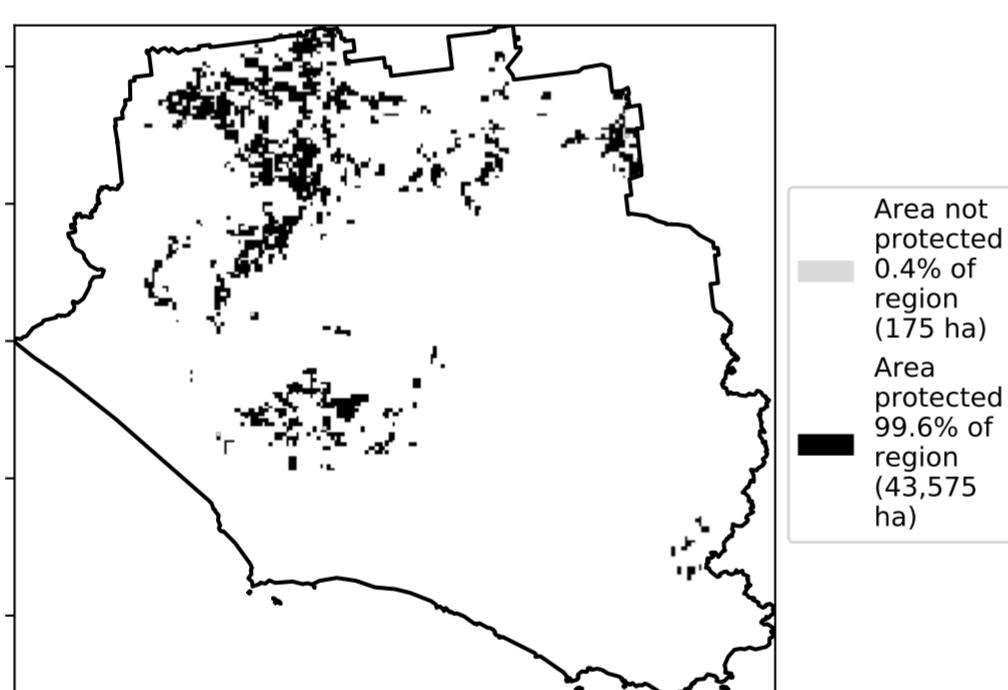
**Total Vegetation Cover [%]**



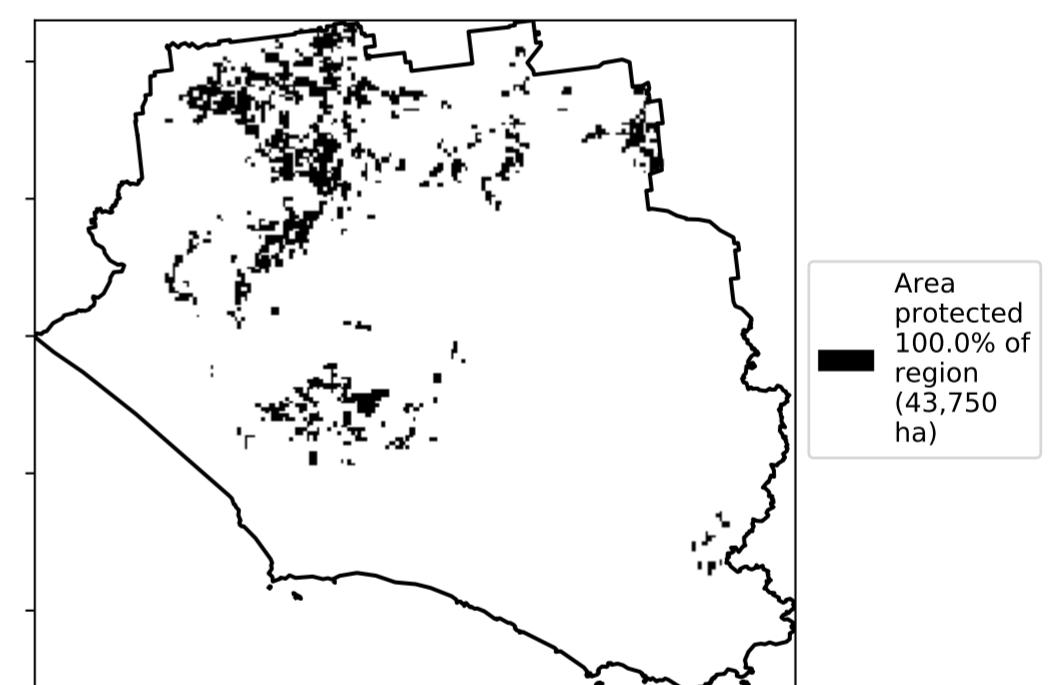
**Proportion of vegetation cover class in area**



**% Area protected from water erosion (>70%)**

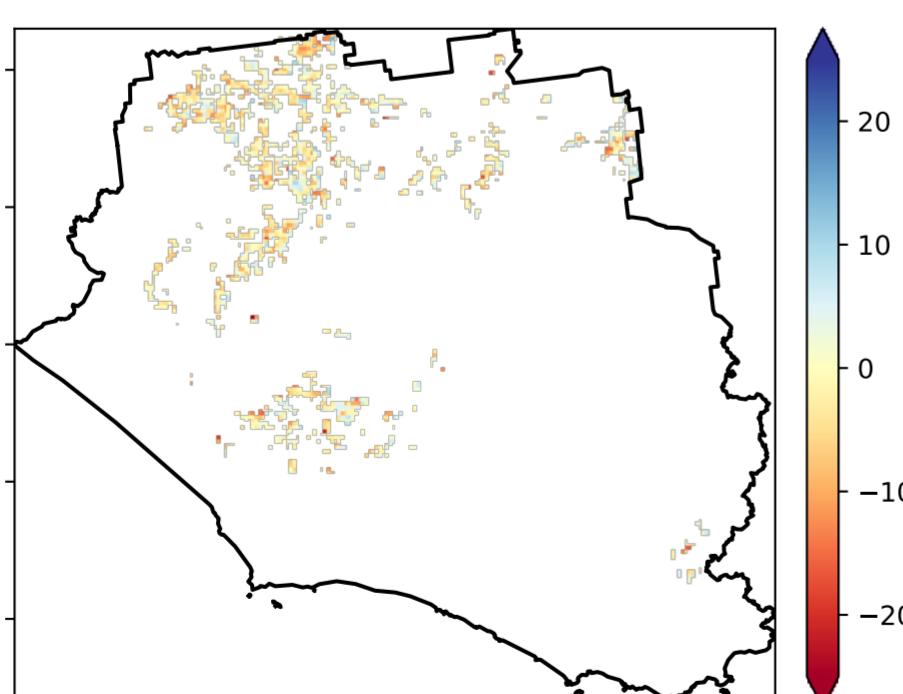


**% Area protected from wind erosion (>50%)**



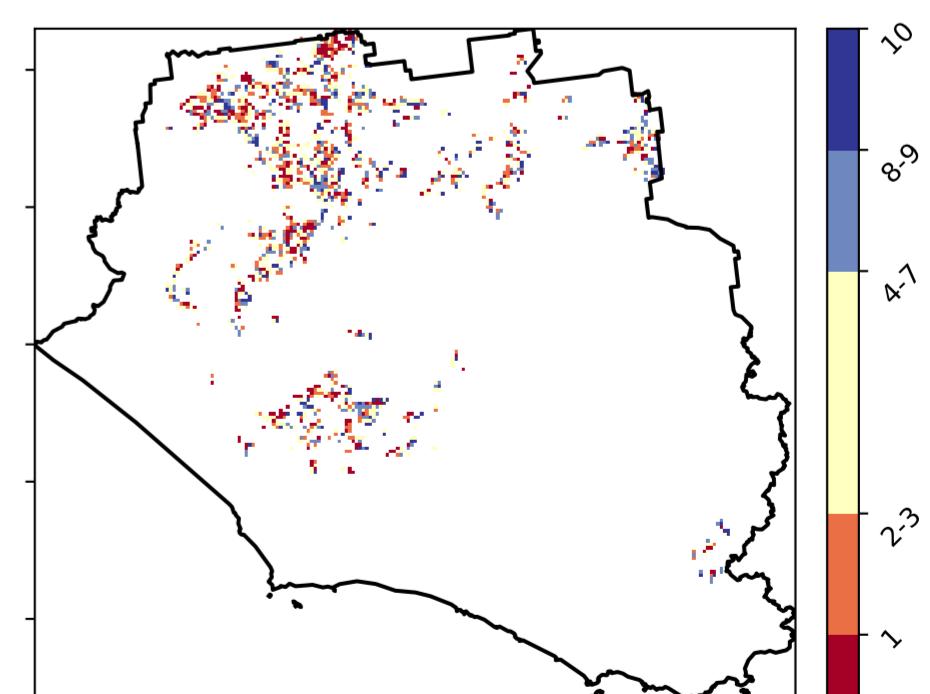
**Total Vegetation Cover Anomaly [%]**

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.



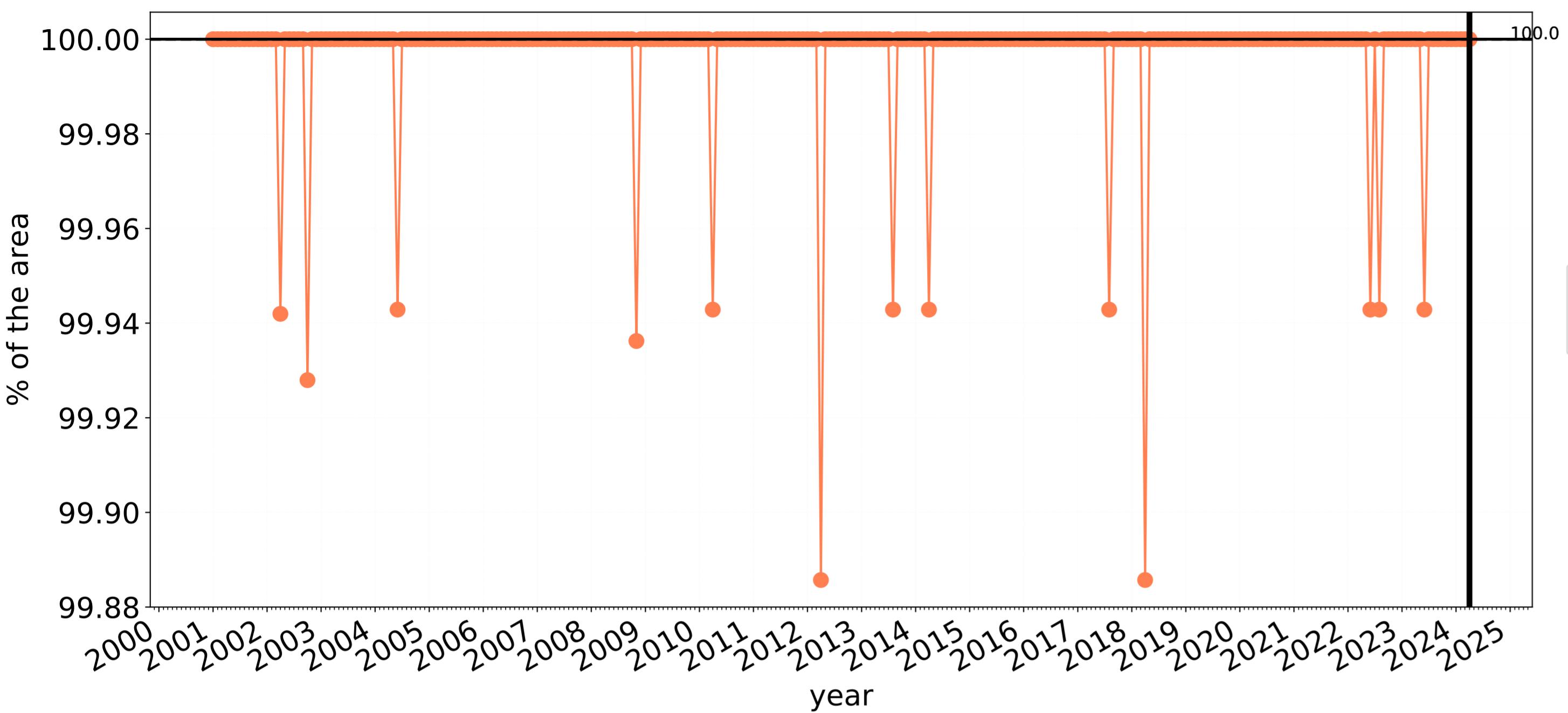
Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

**Total Vegetation Cover Decile [%]**

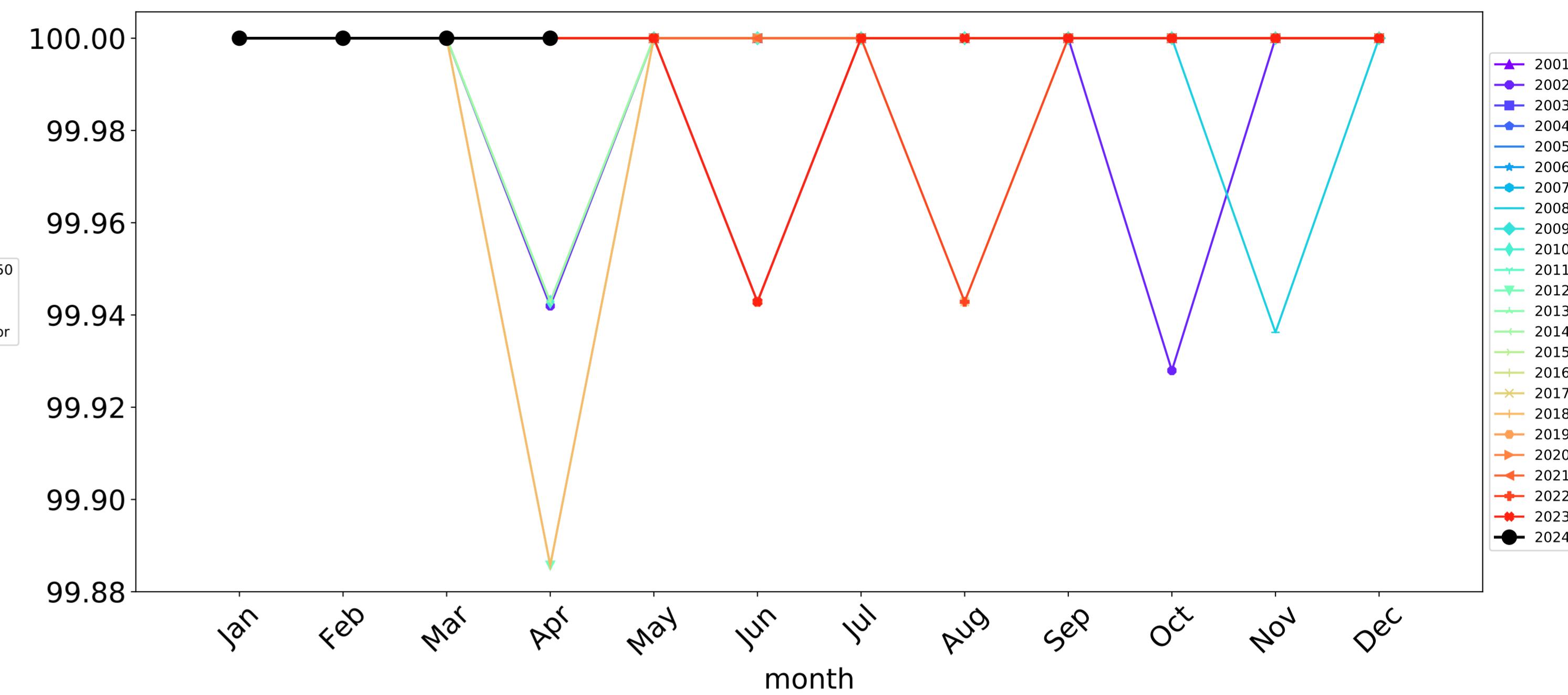


### Grazing non forest timeseries

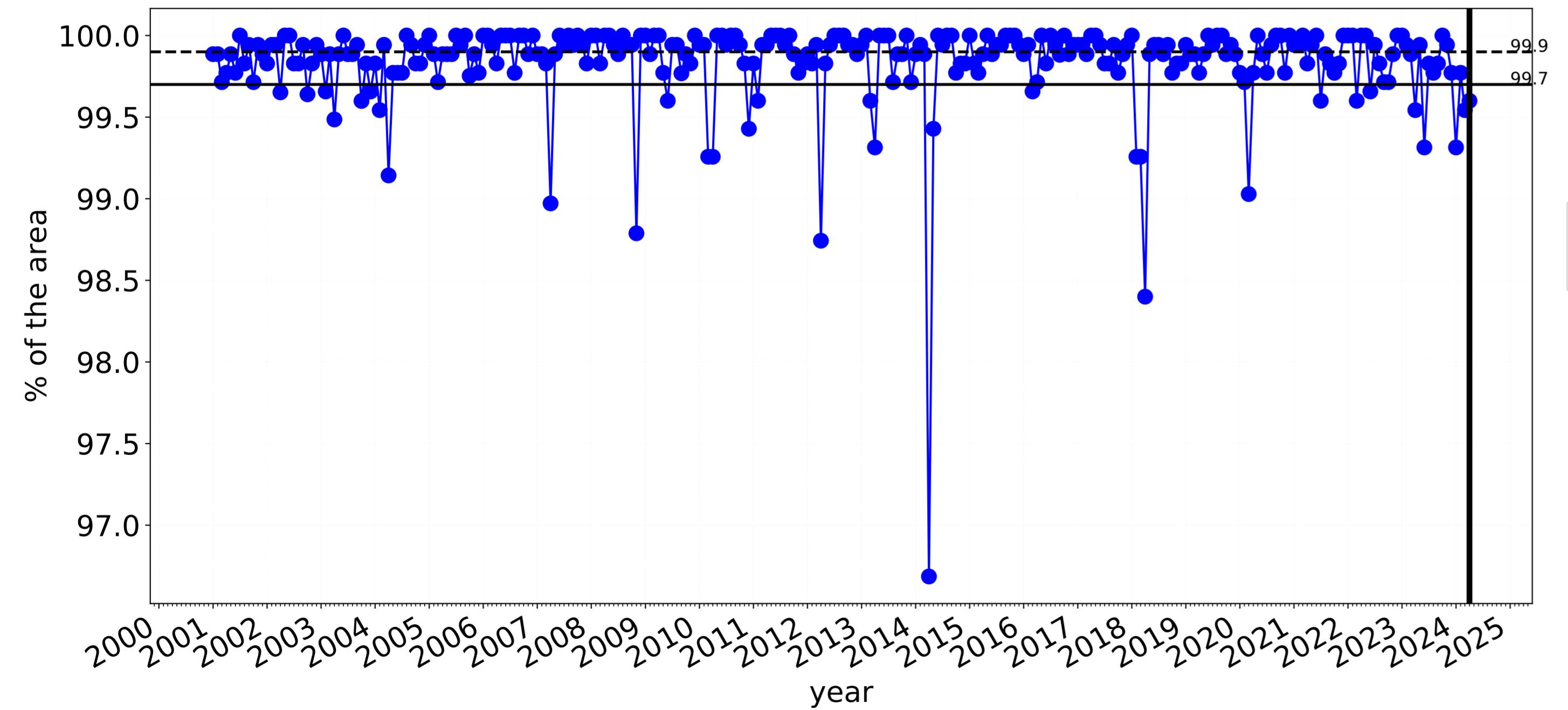
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



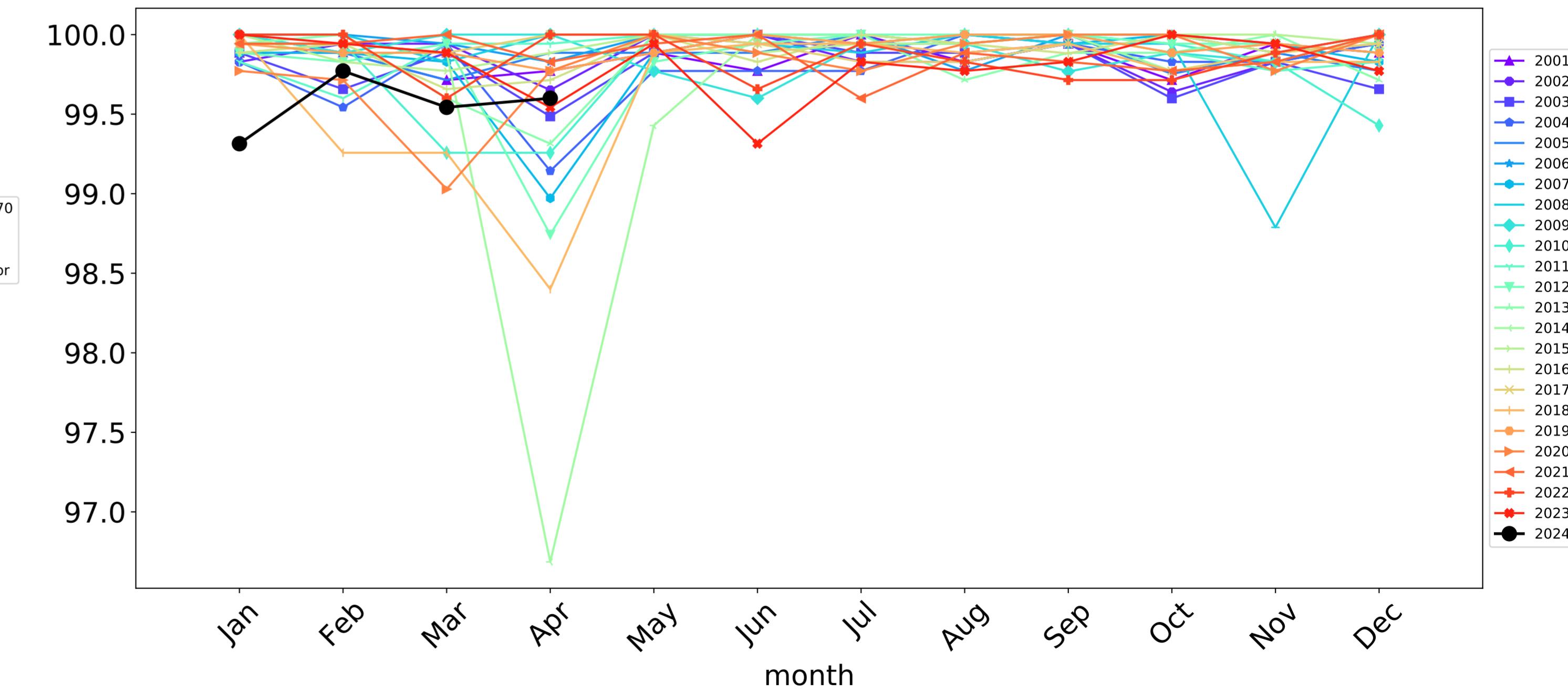
Wind erosion historical monthly area protected (Total Veg Cov >50%)



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



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



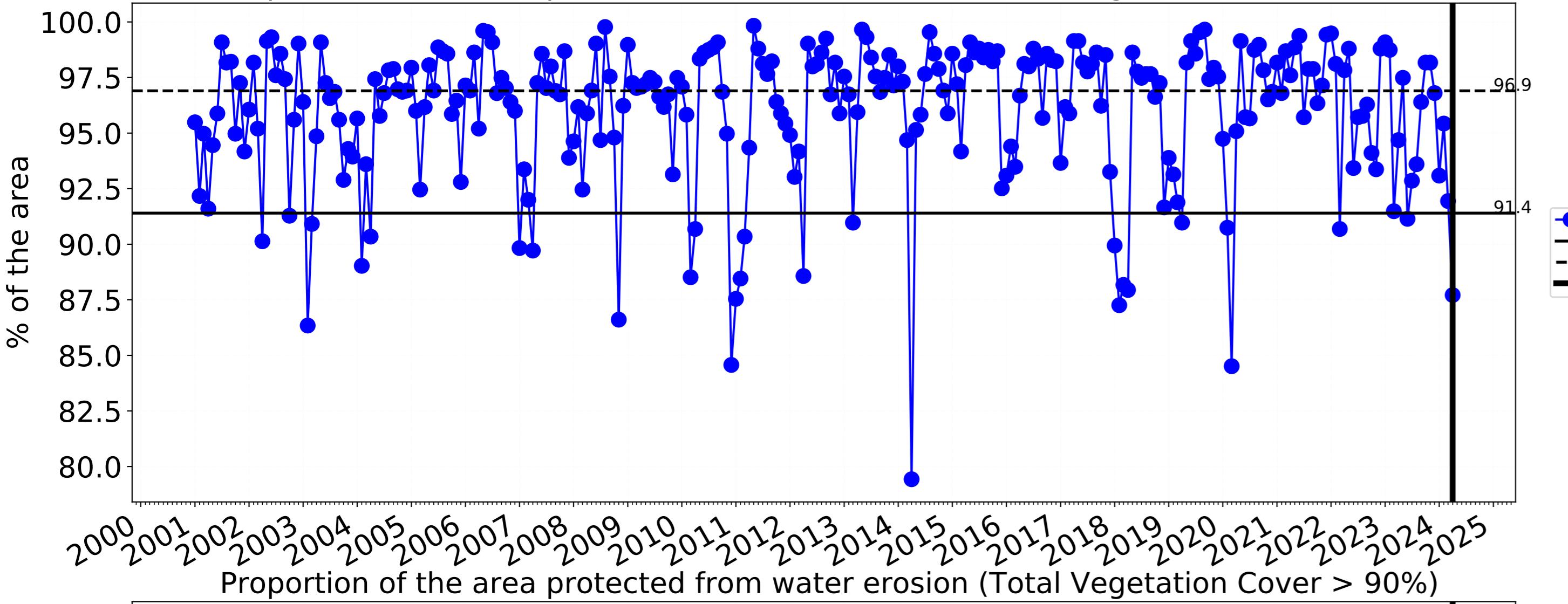
**tern**  
Ecosystem Research Infrastructure



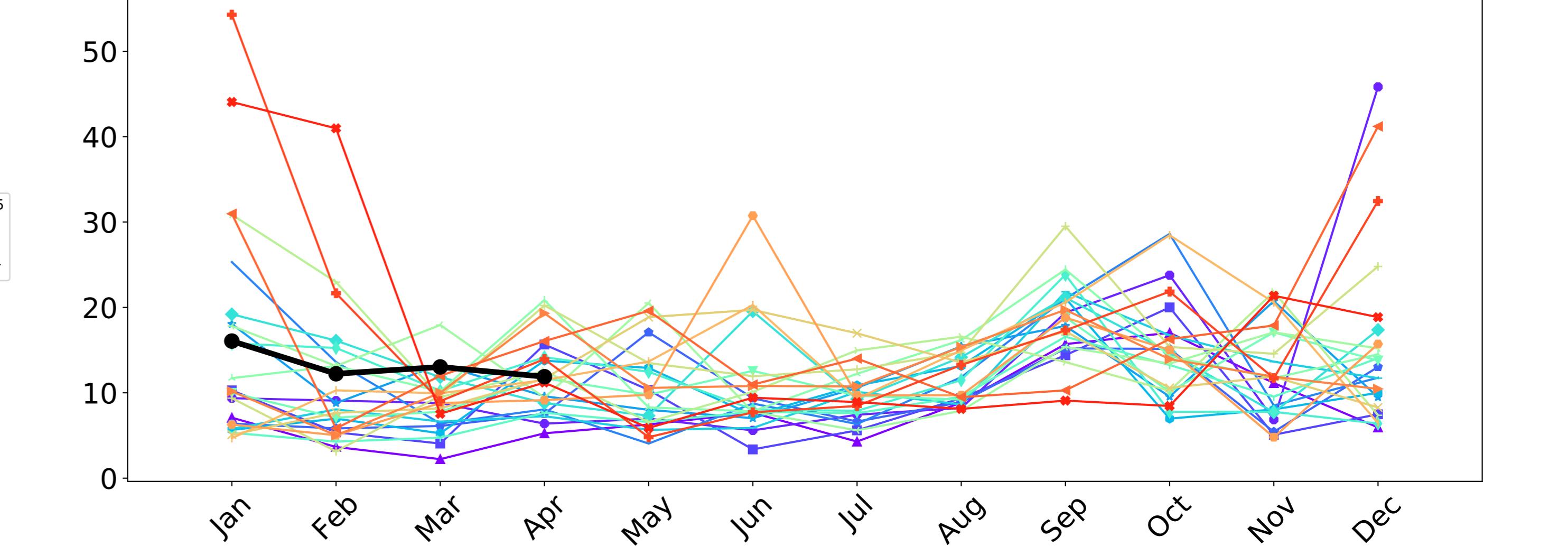
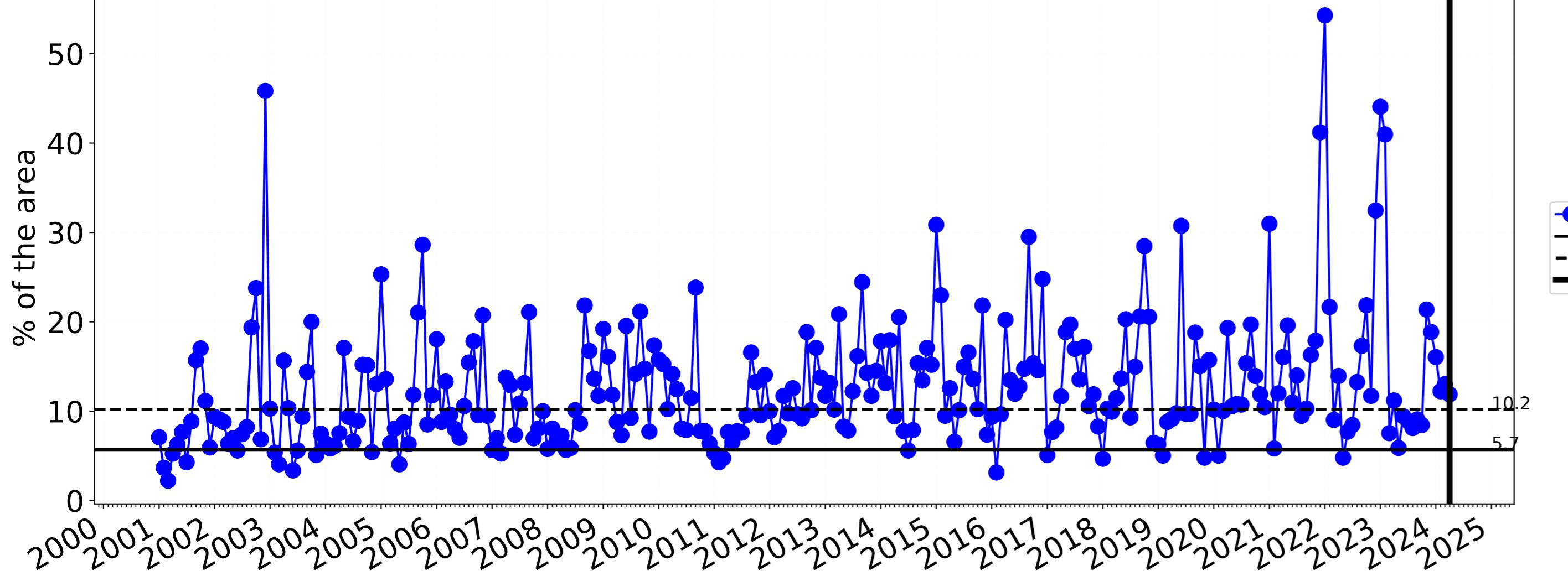
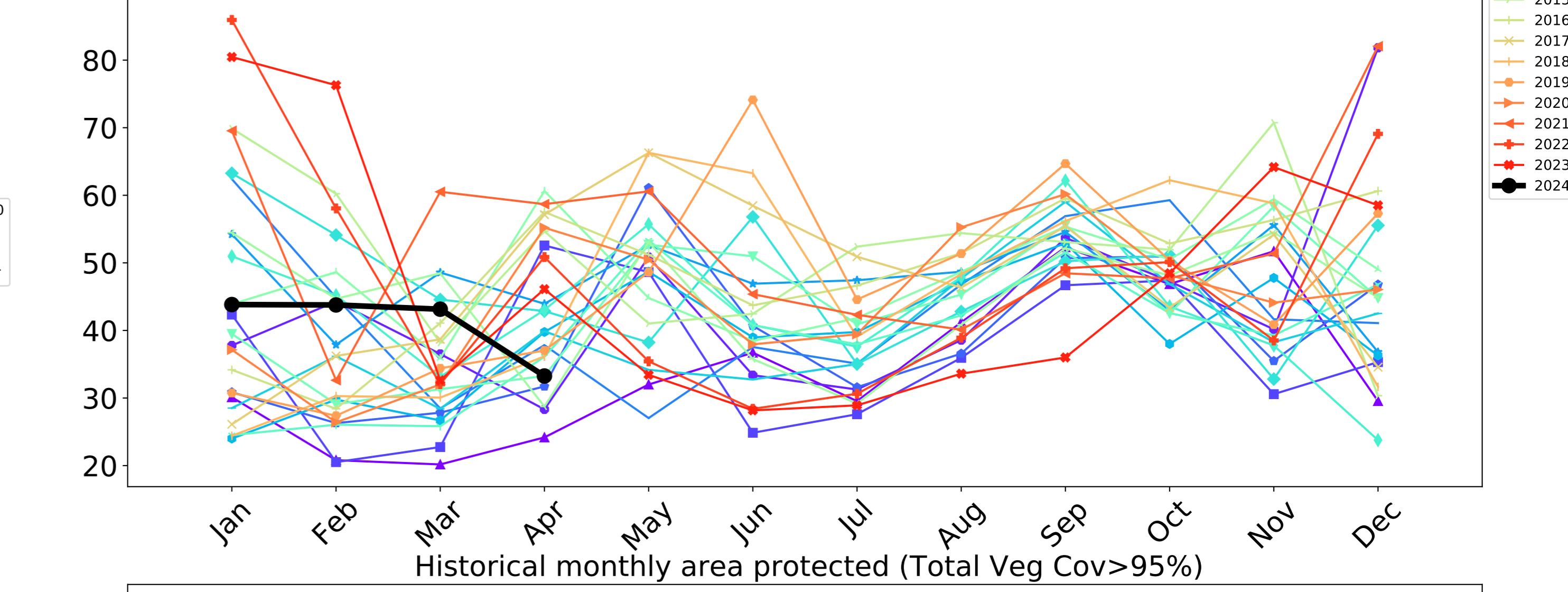
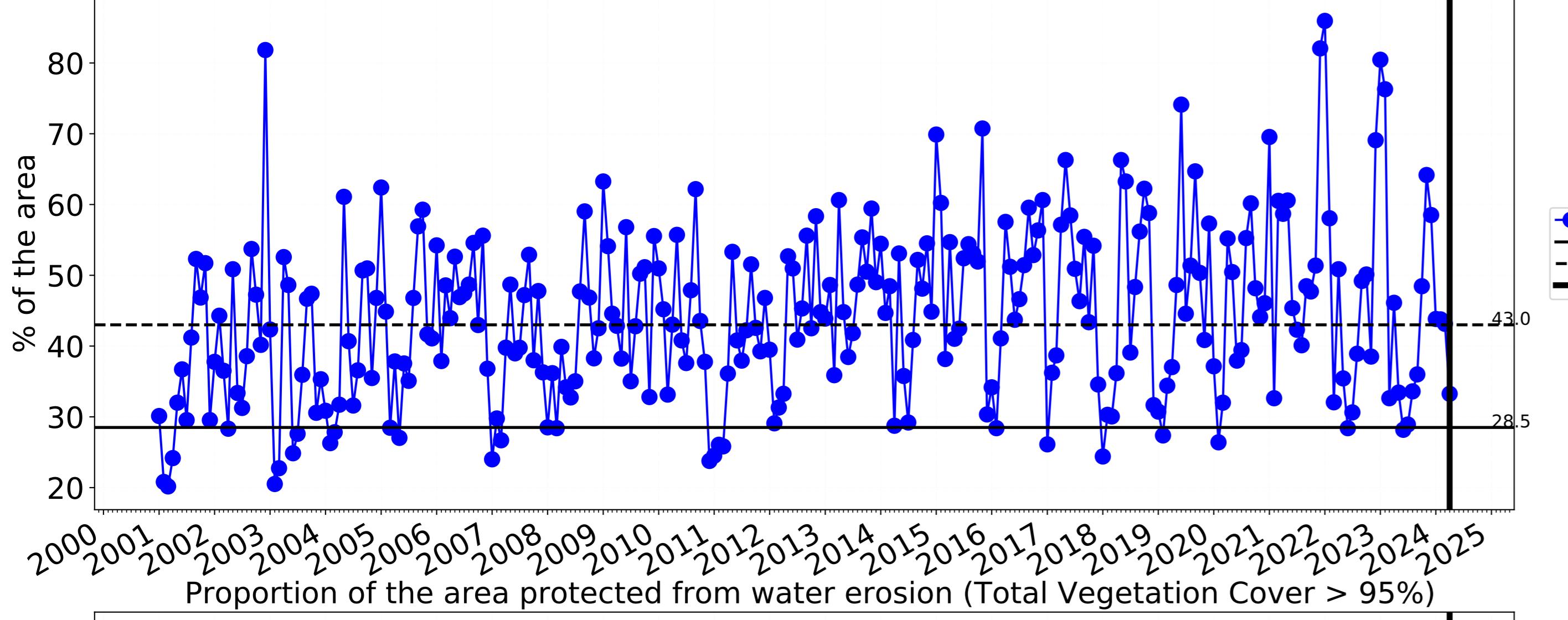
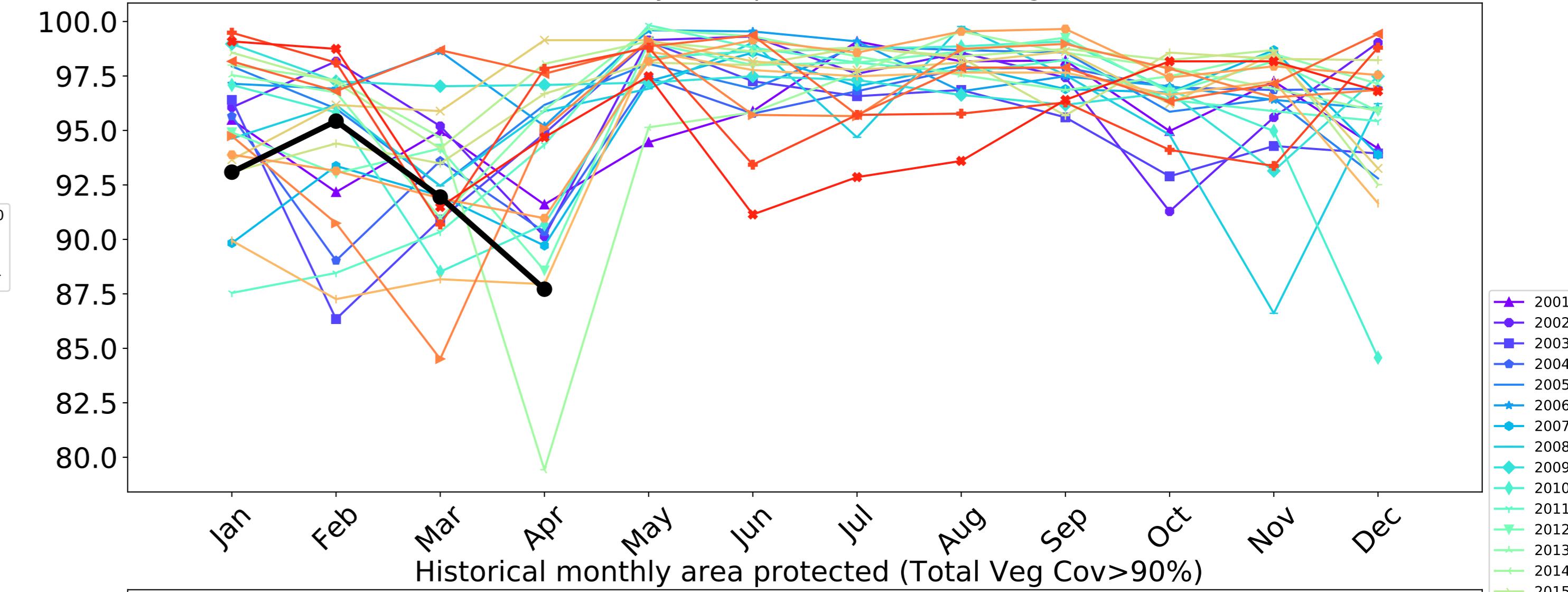
National  
Landcare  
Programme



Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



Historical monthly area protected (Total Veg Cov>80%)



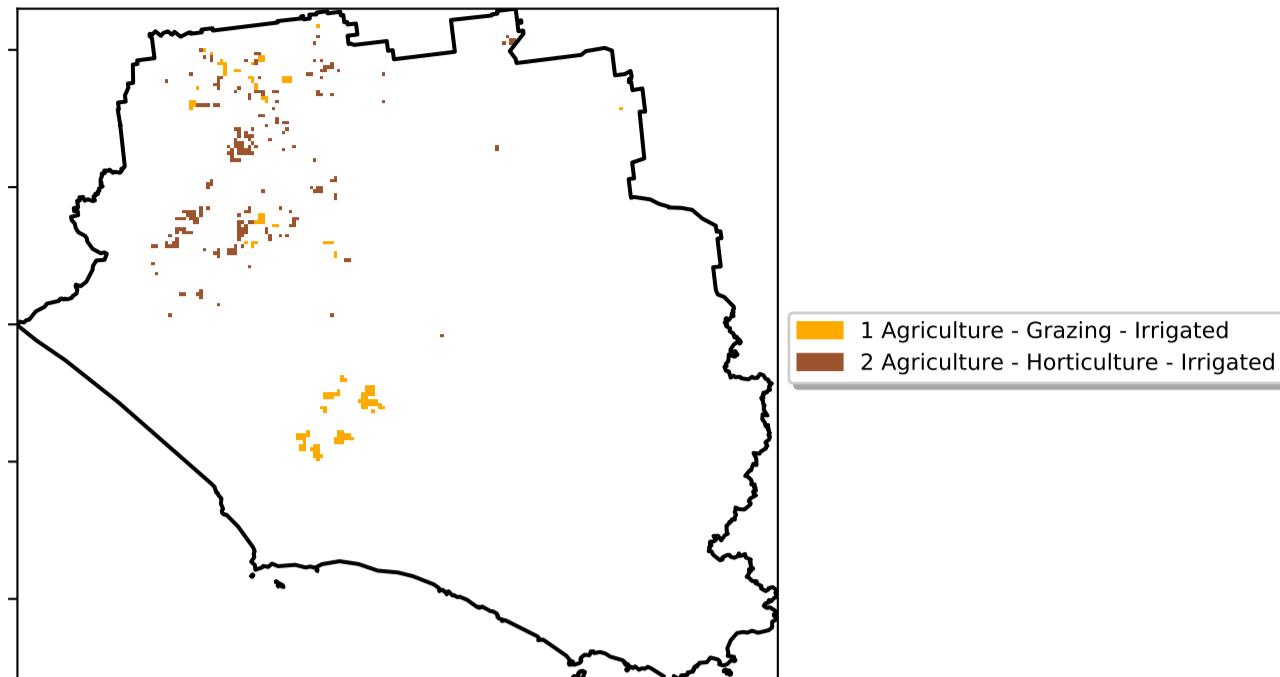
Australian Government



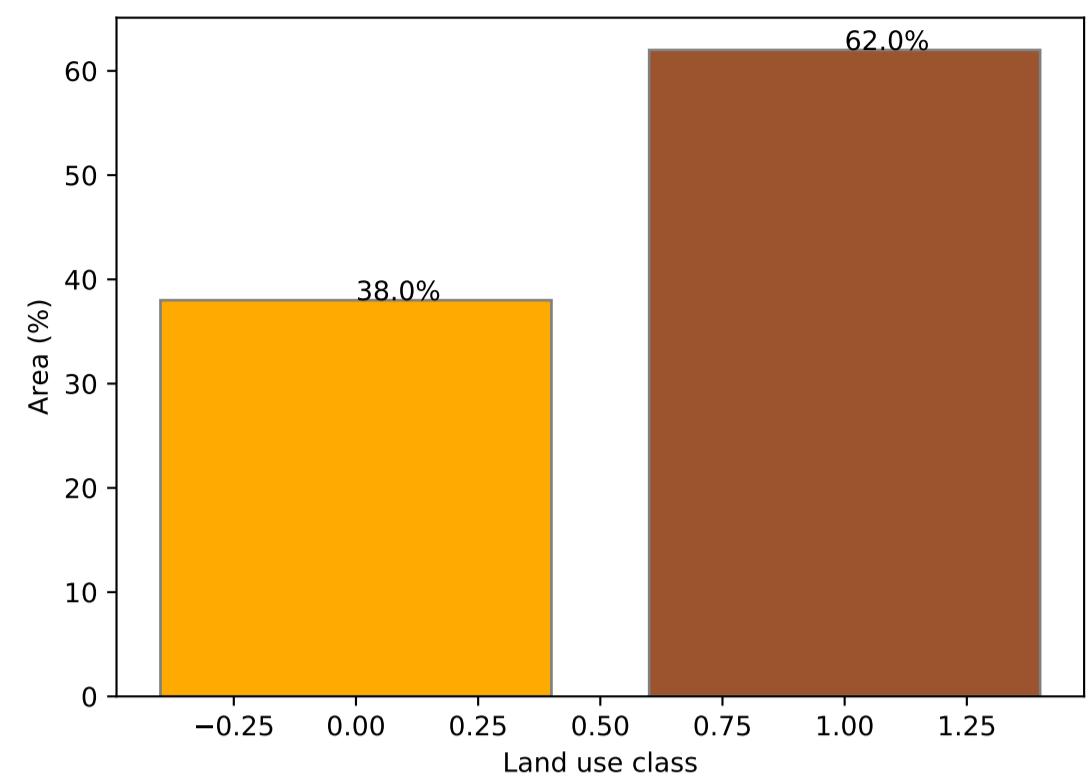
## Irrigation

**Land use and forest cover**

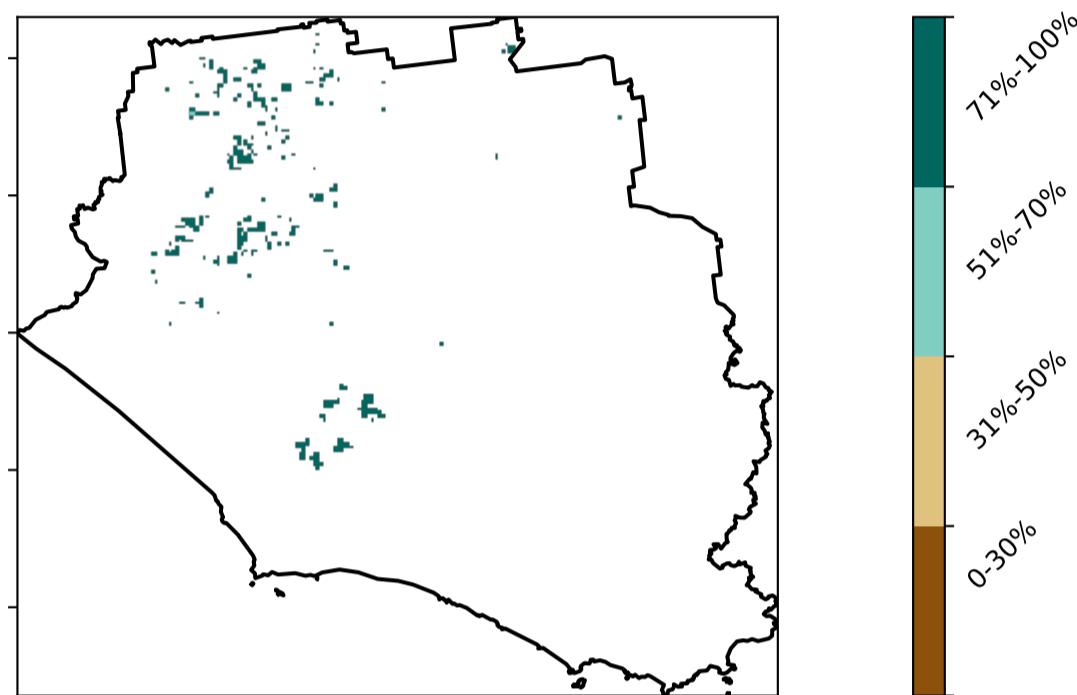
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



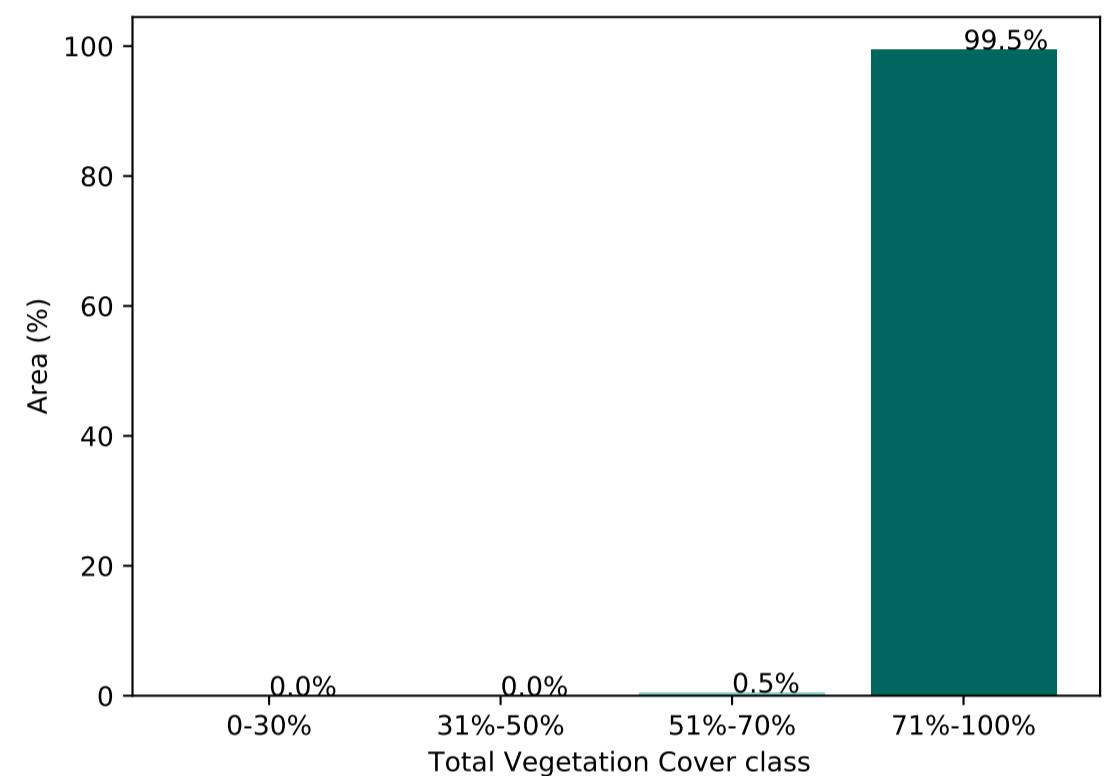
**Proportion of each land class in area**



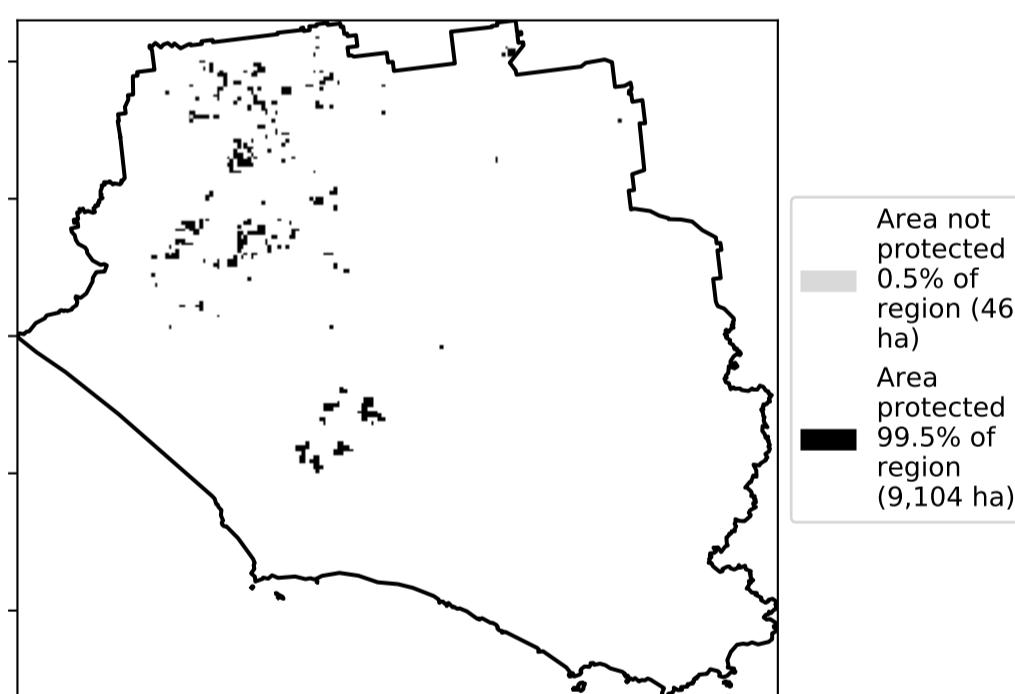
**Total Vegetation Cover [%]**



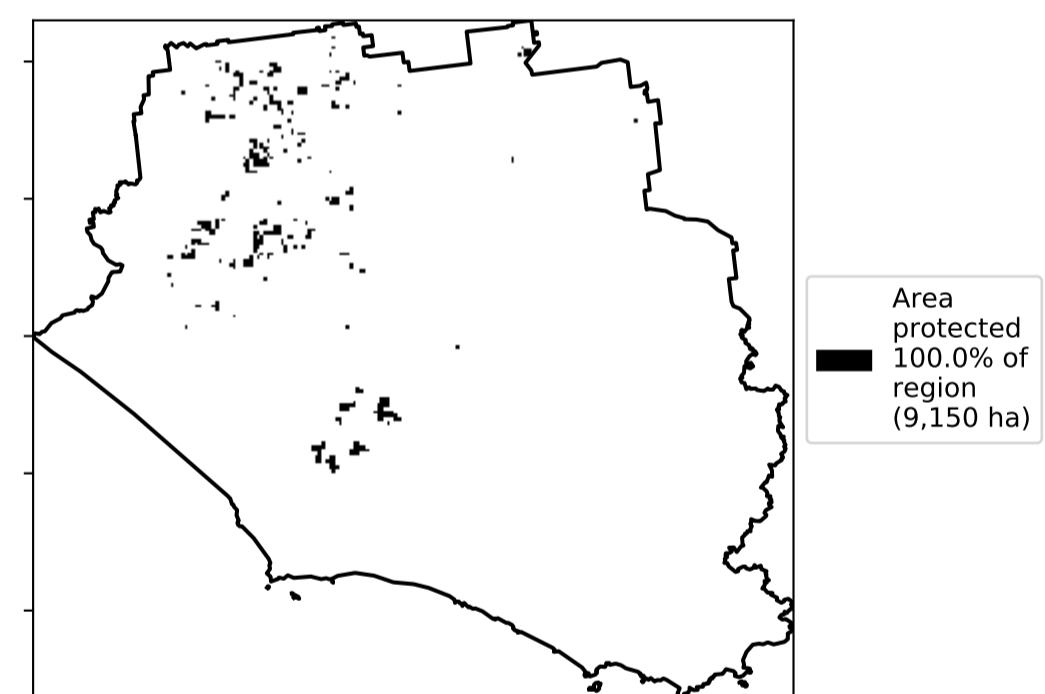
**Proportion of vegetation cover class in area**



**% Area protected from water erosion (>70%)**

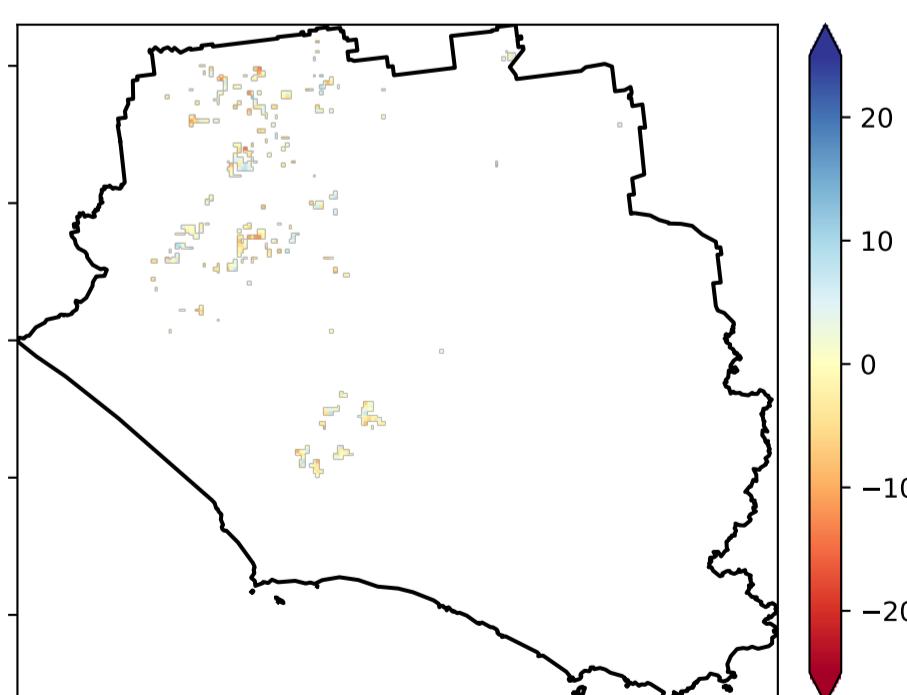


**% Area protected from wind erosion (>50%)**



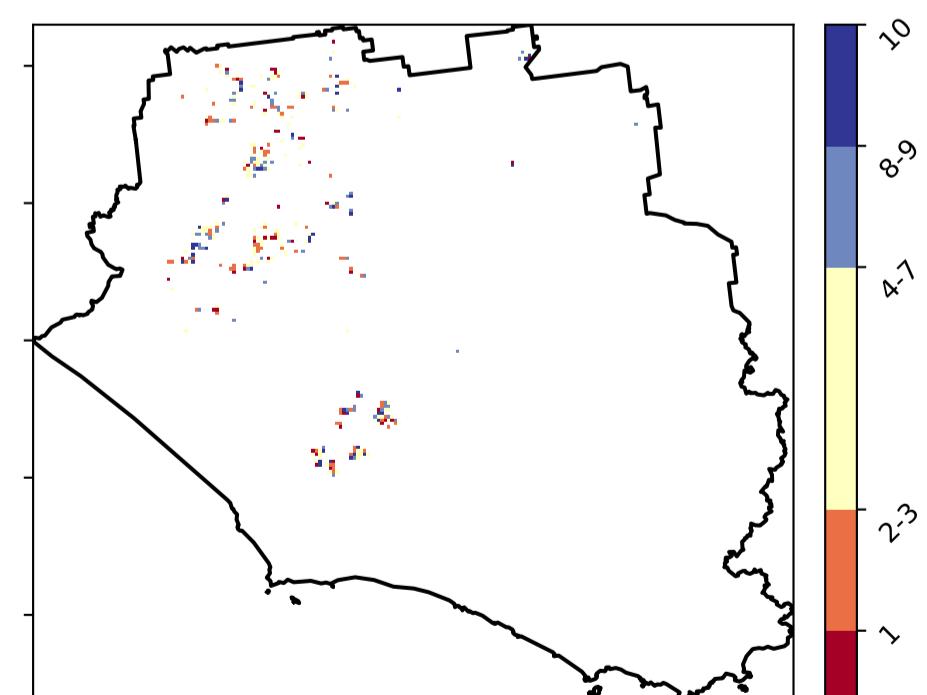
**Total Vegetation Cover Anomaly [%]**

Anomaly shows 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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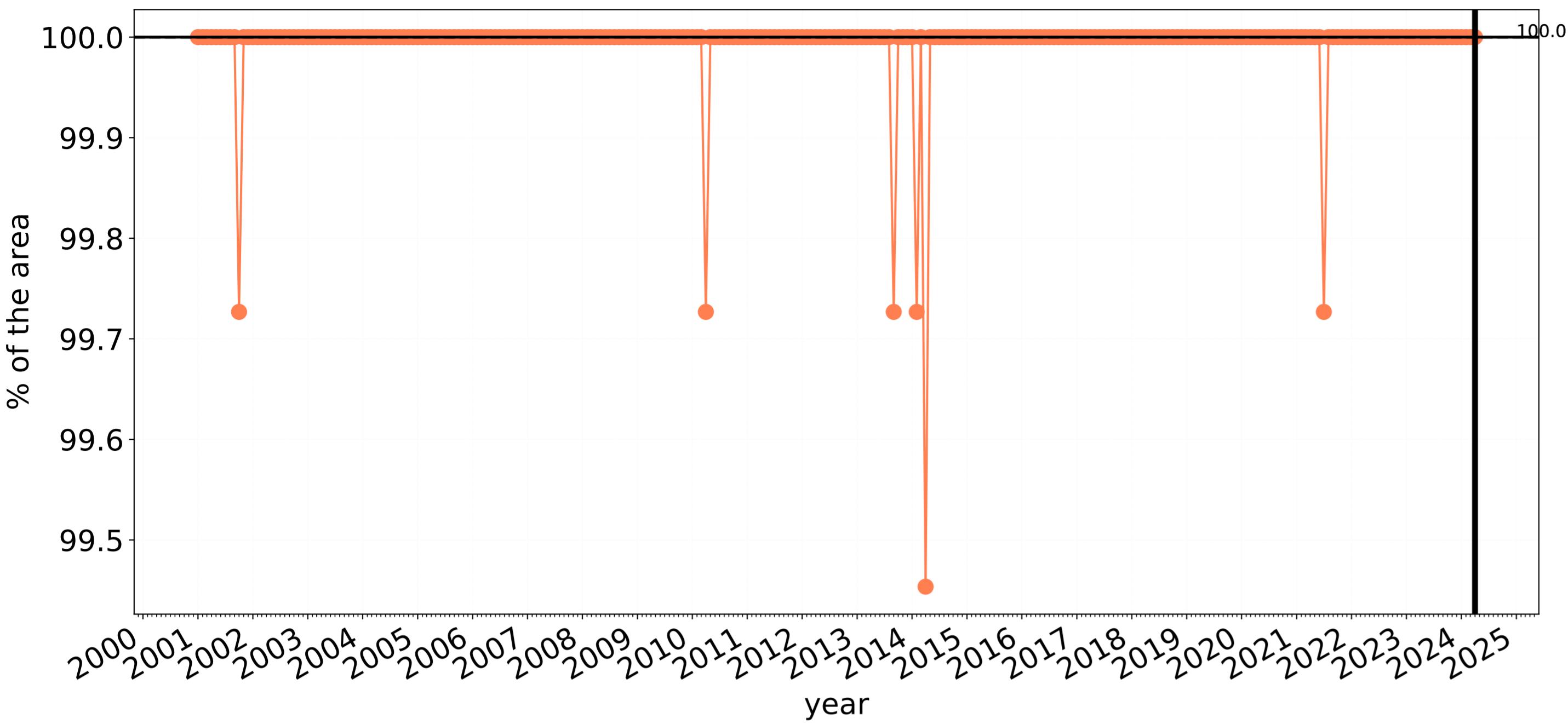


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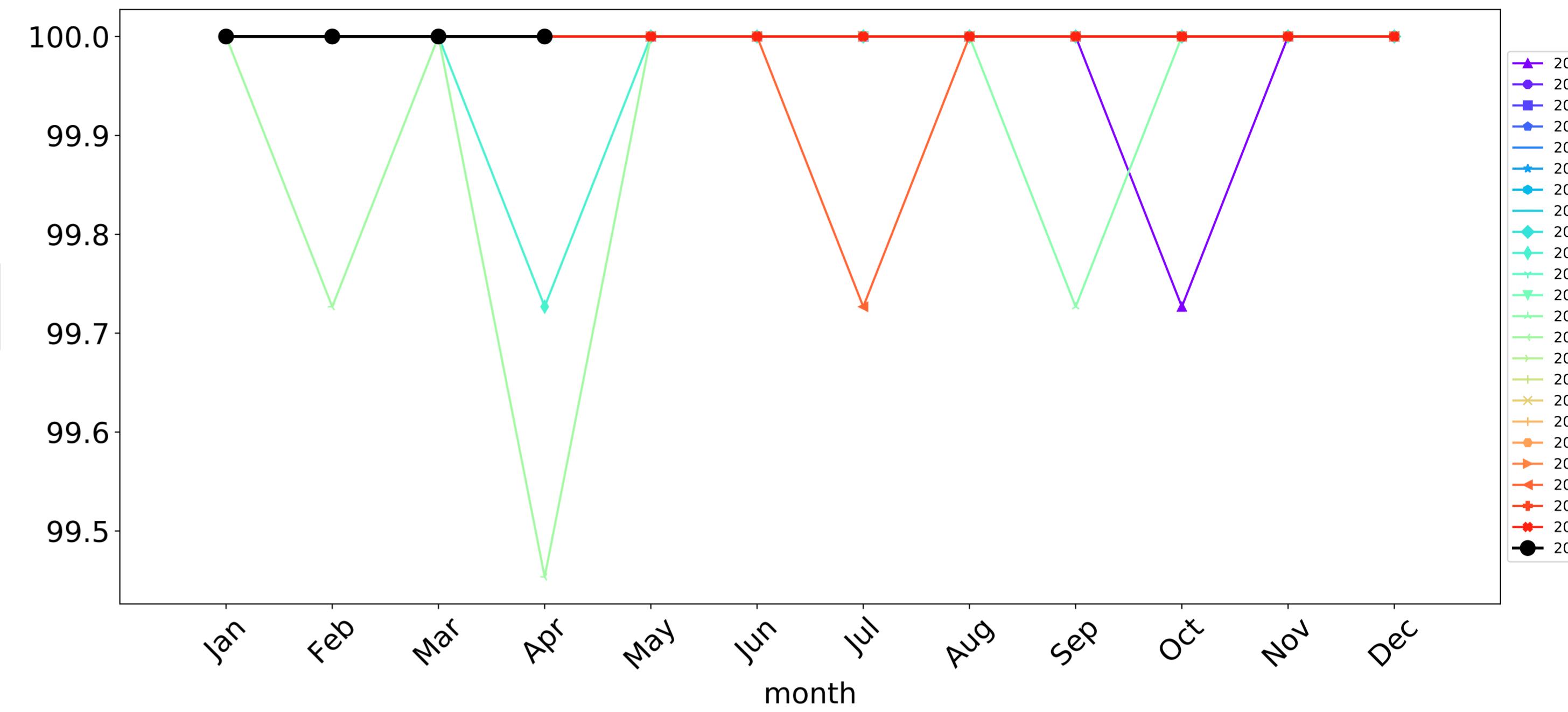


### Irrigation timeseries

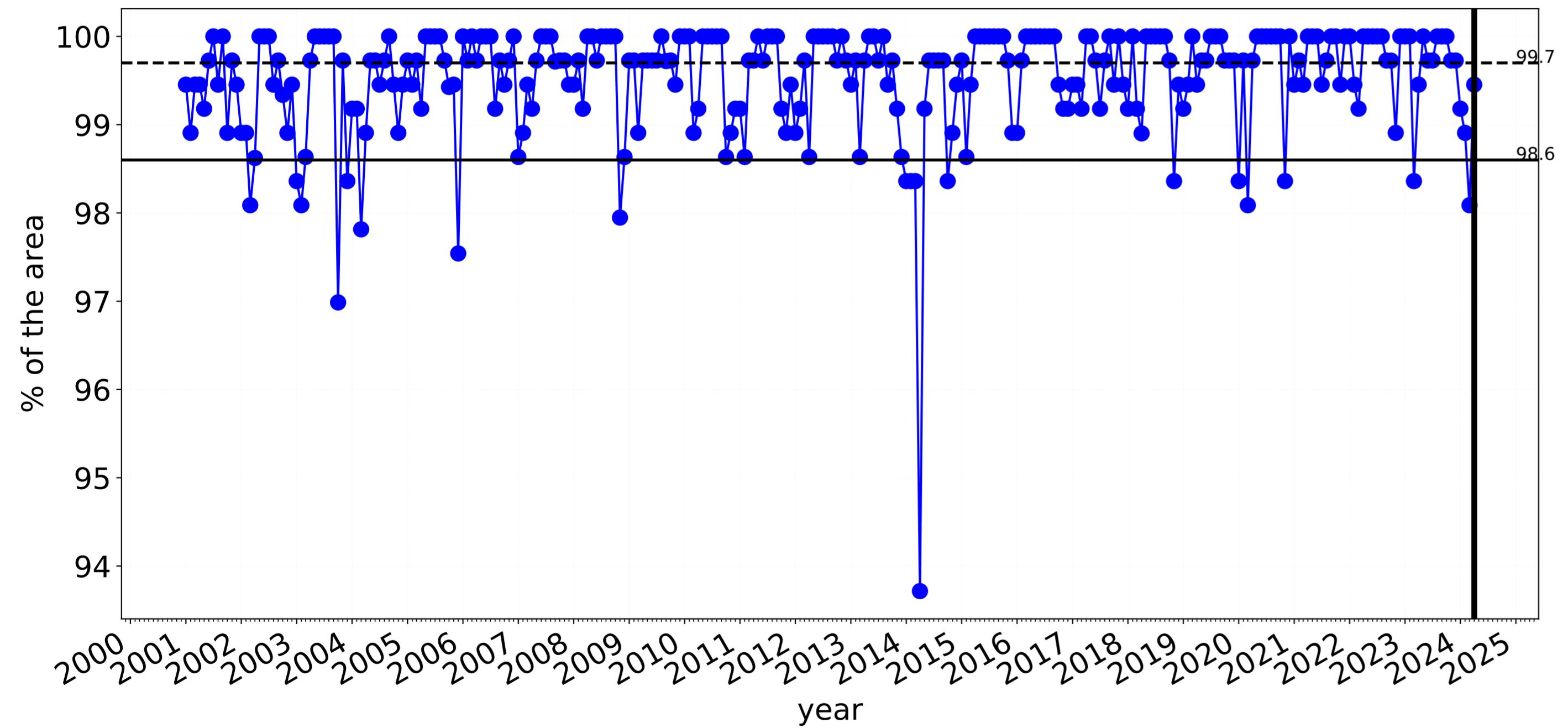
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



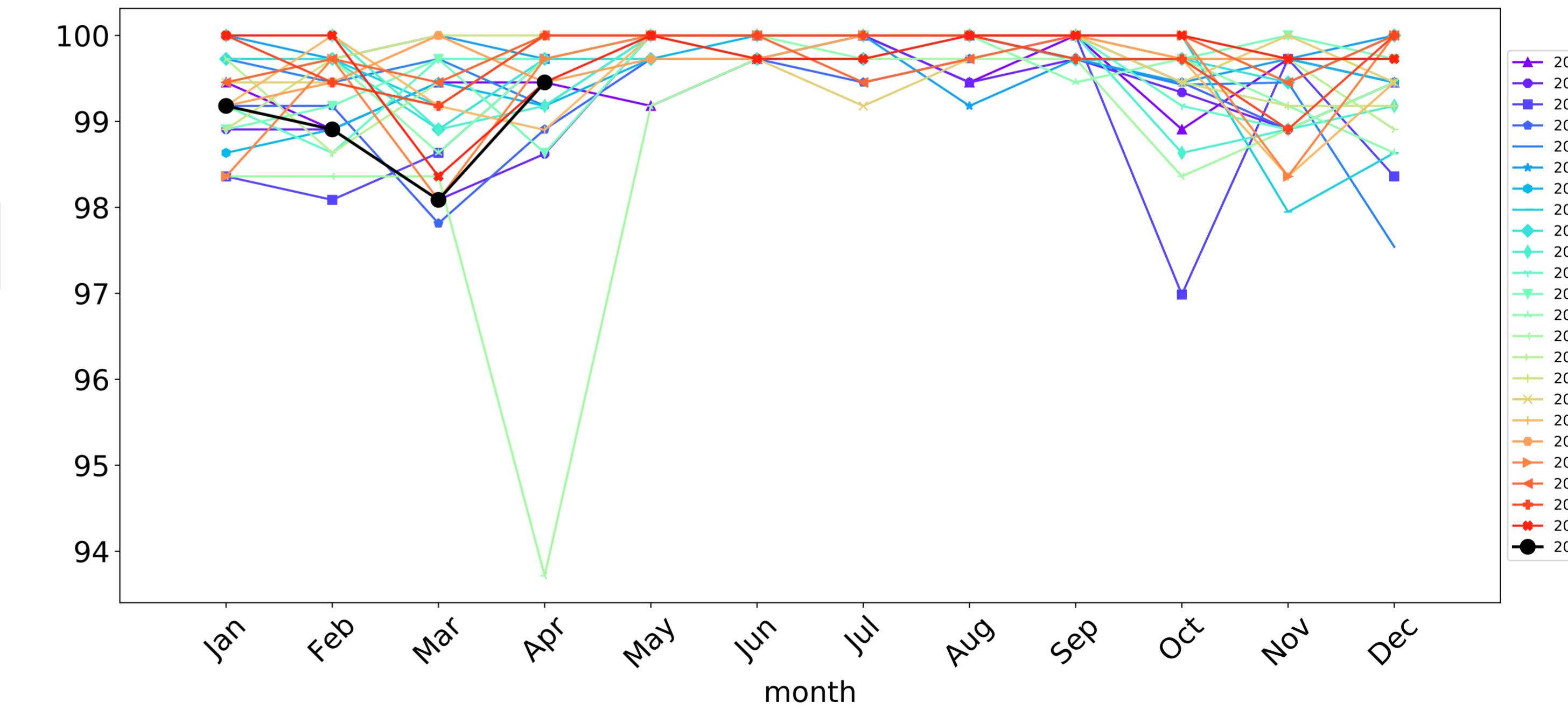
Wind erosion historical monthly area protected (Total Veg Cov >50%)



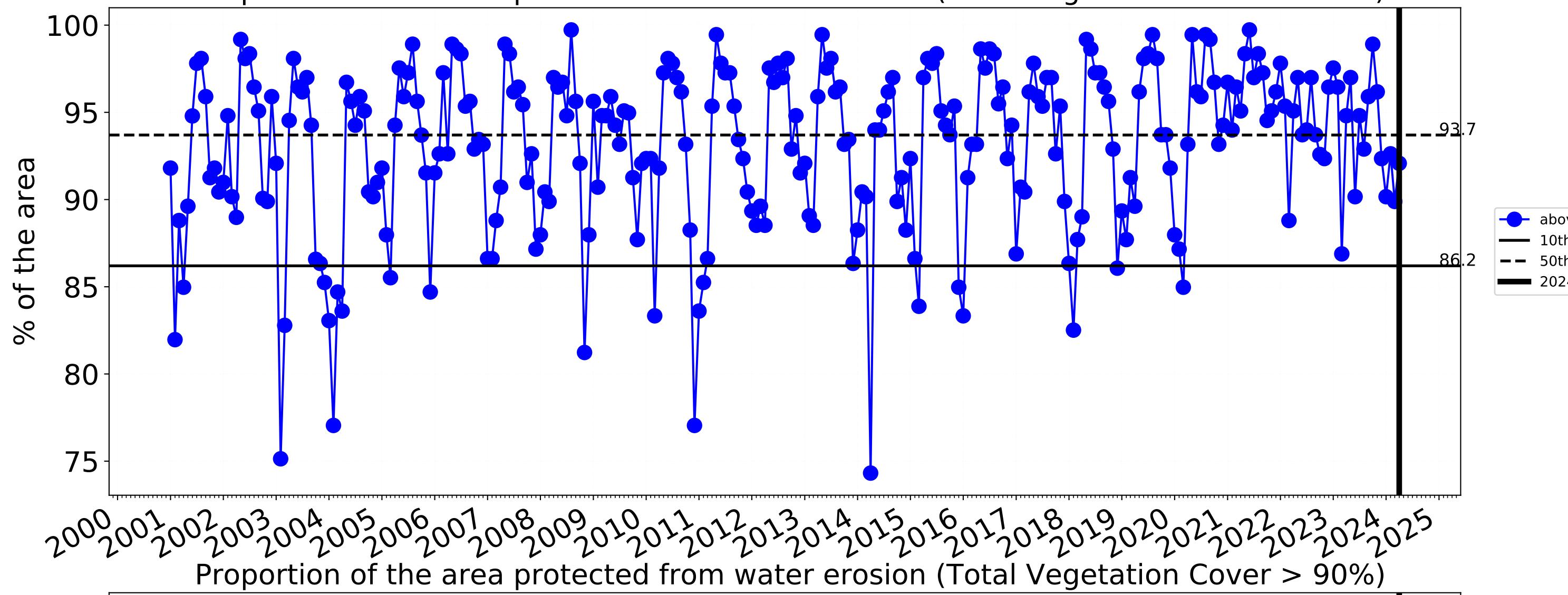
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



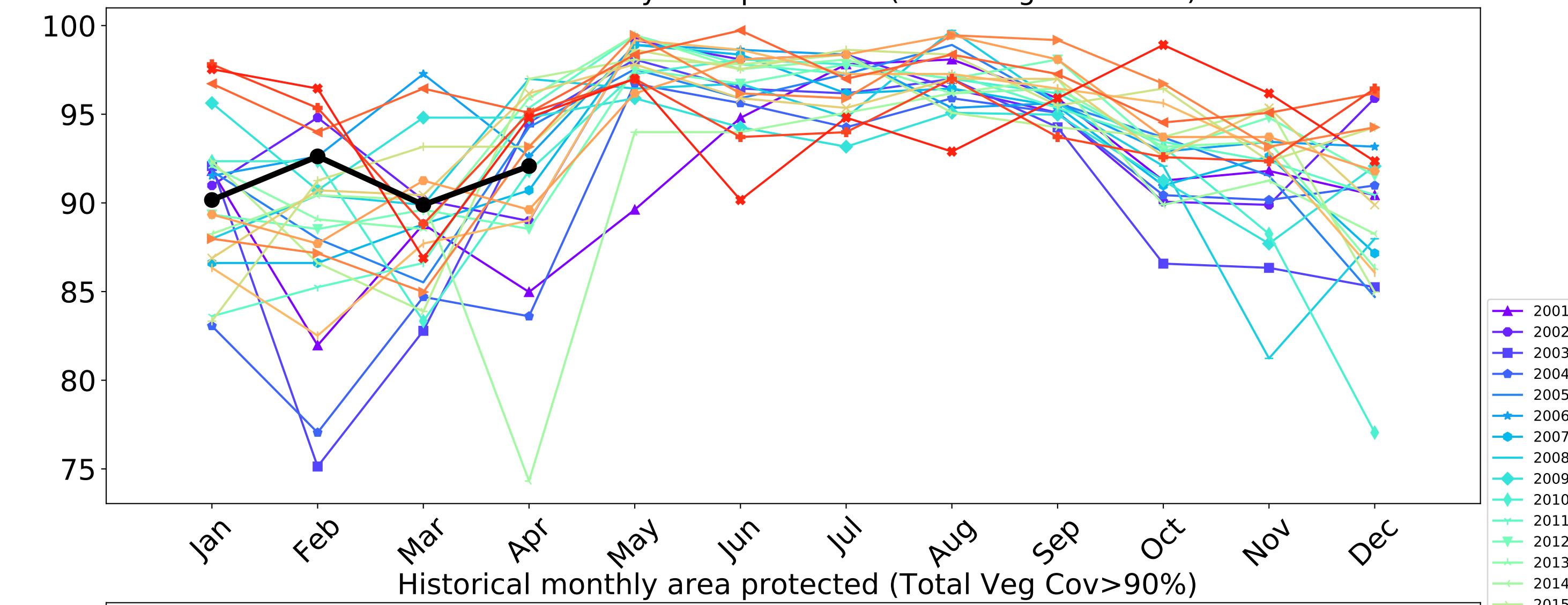
Water erosion historical monthly area protected (Total Veg Cov>70%)



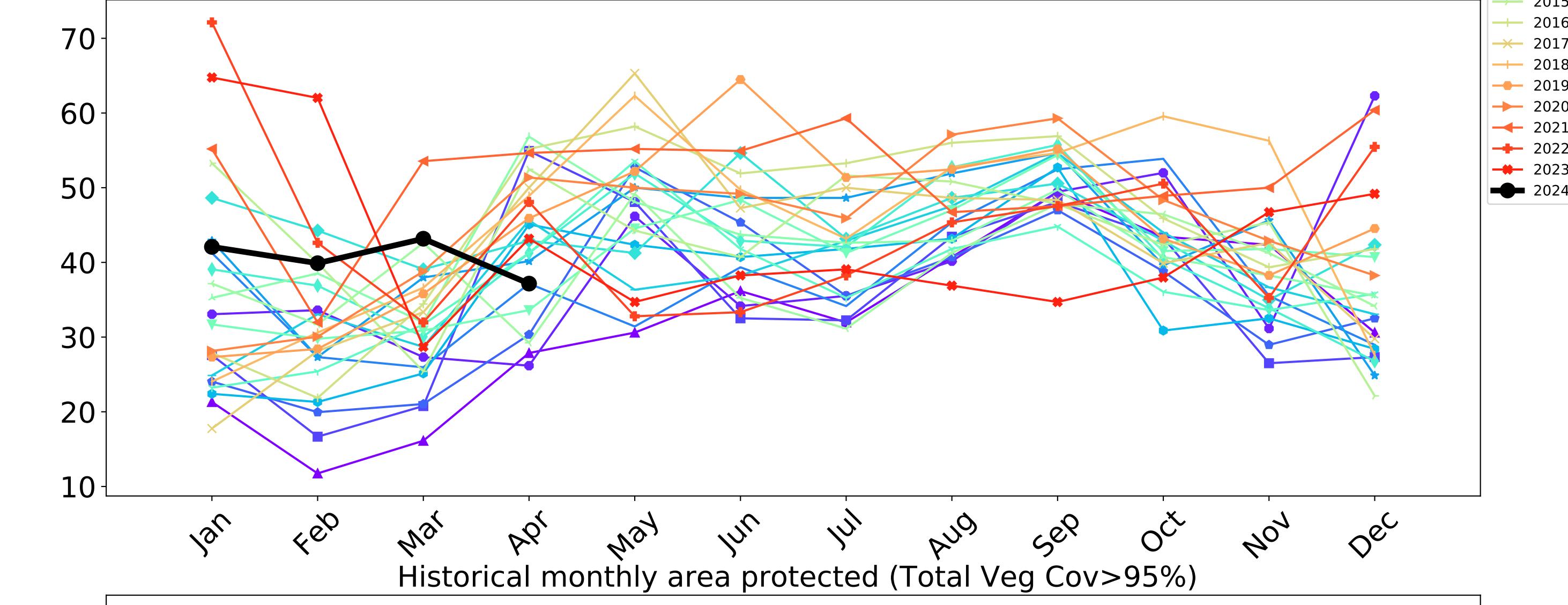
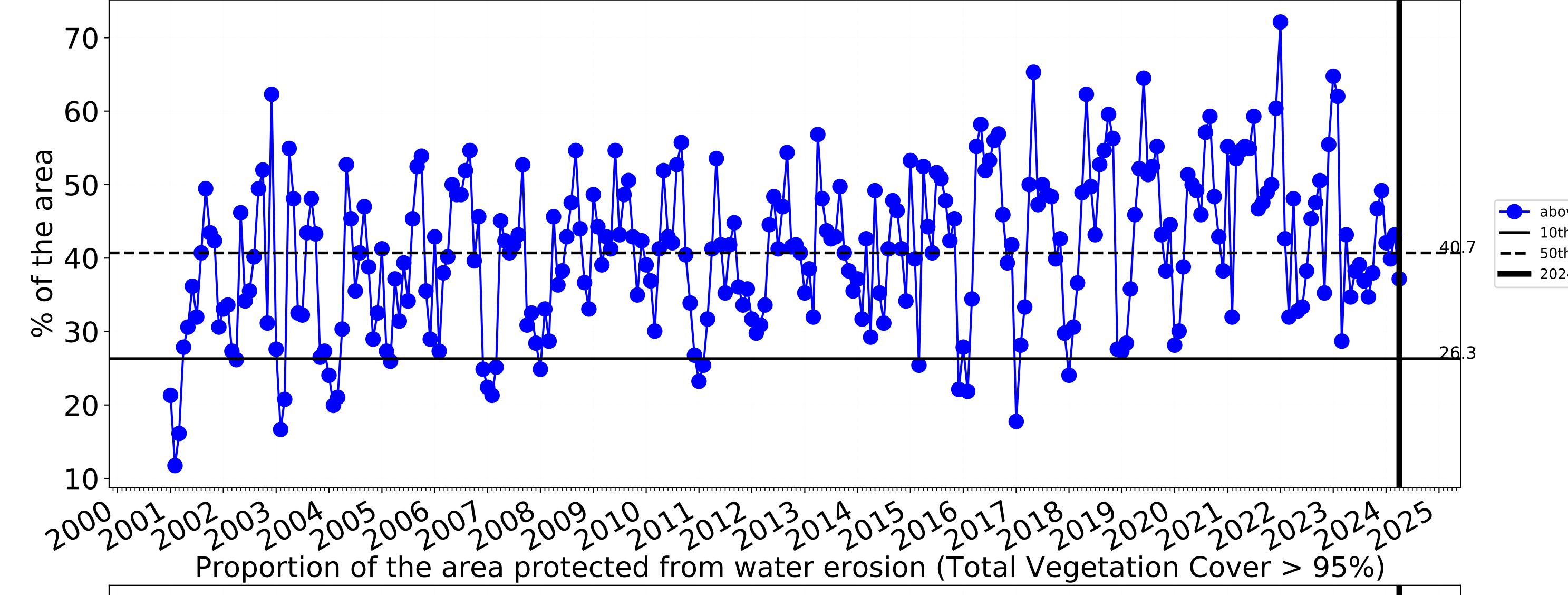
Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



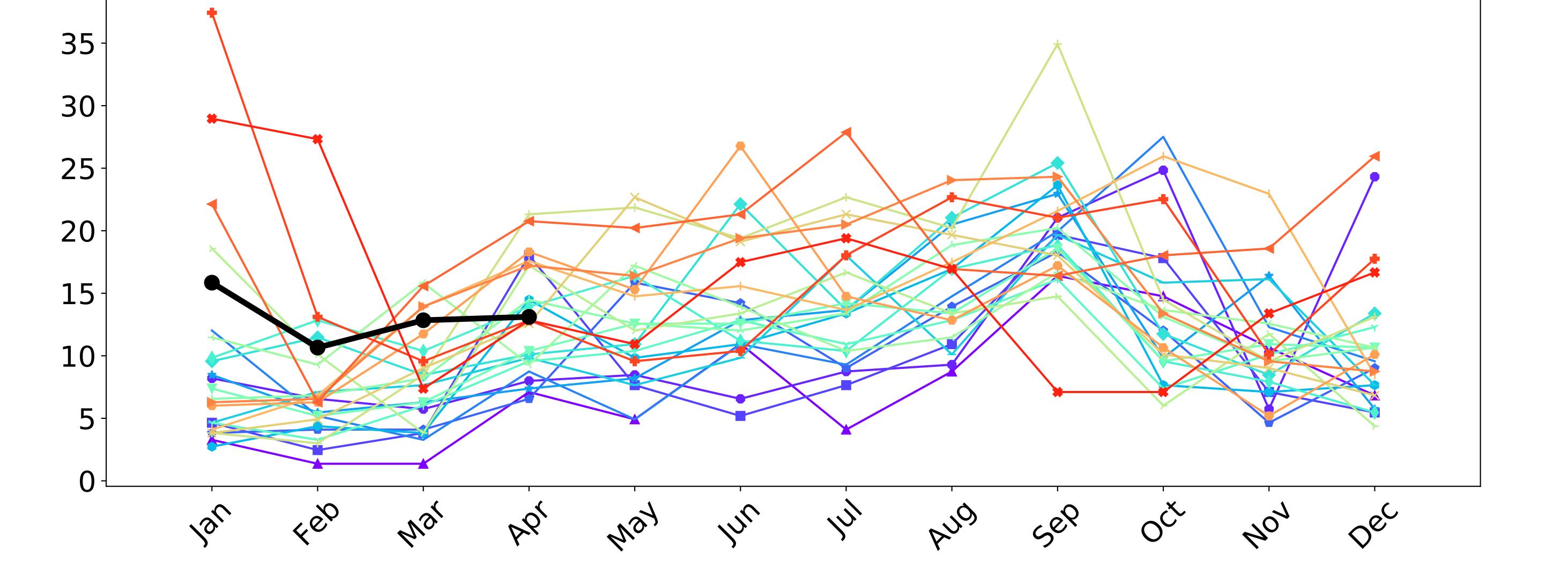
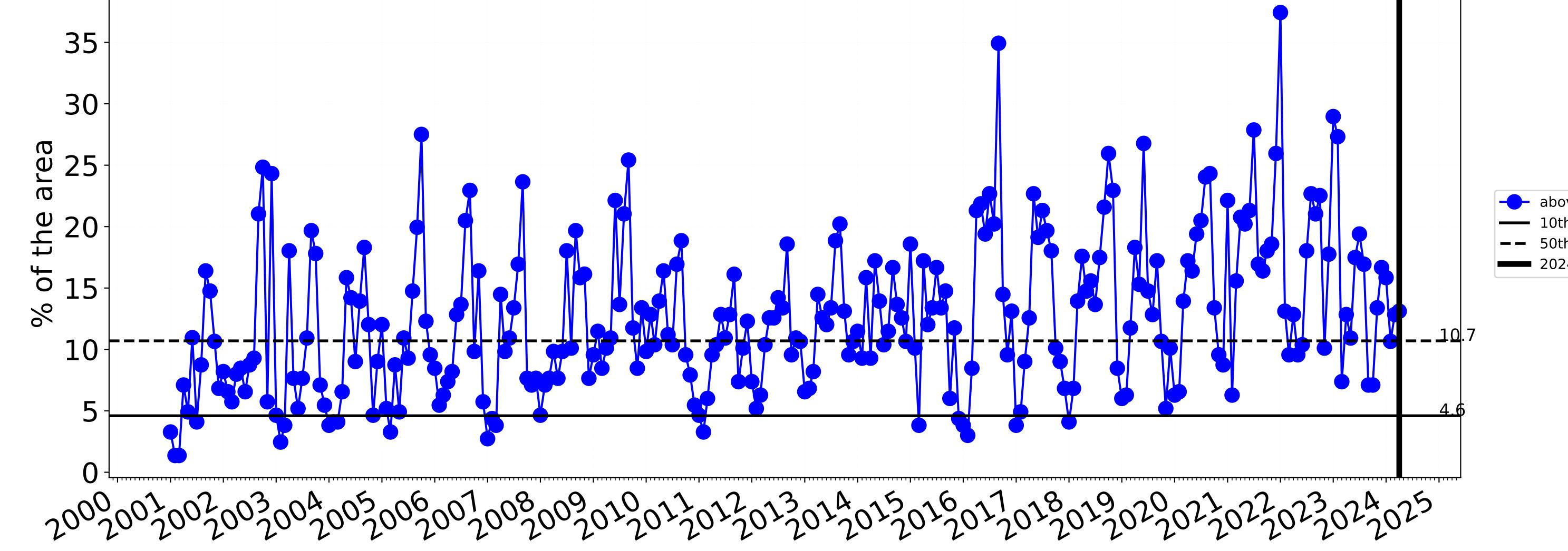
Historical monthly area protected (Total Veg Cov>80%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 90%)



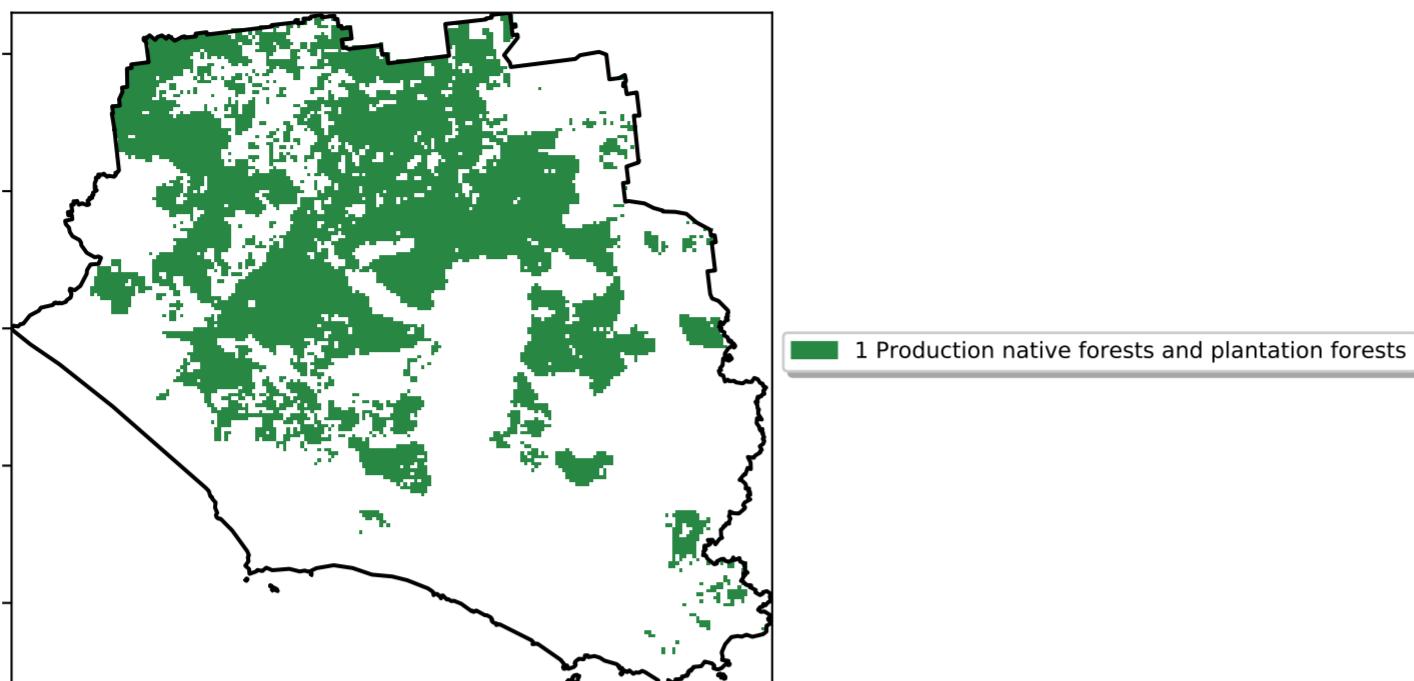
Proportion of the area protected from water erosion (Total Vegetation Cover > 95%)



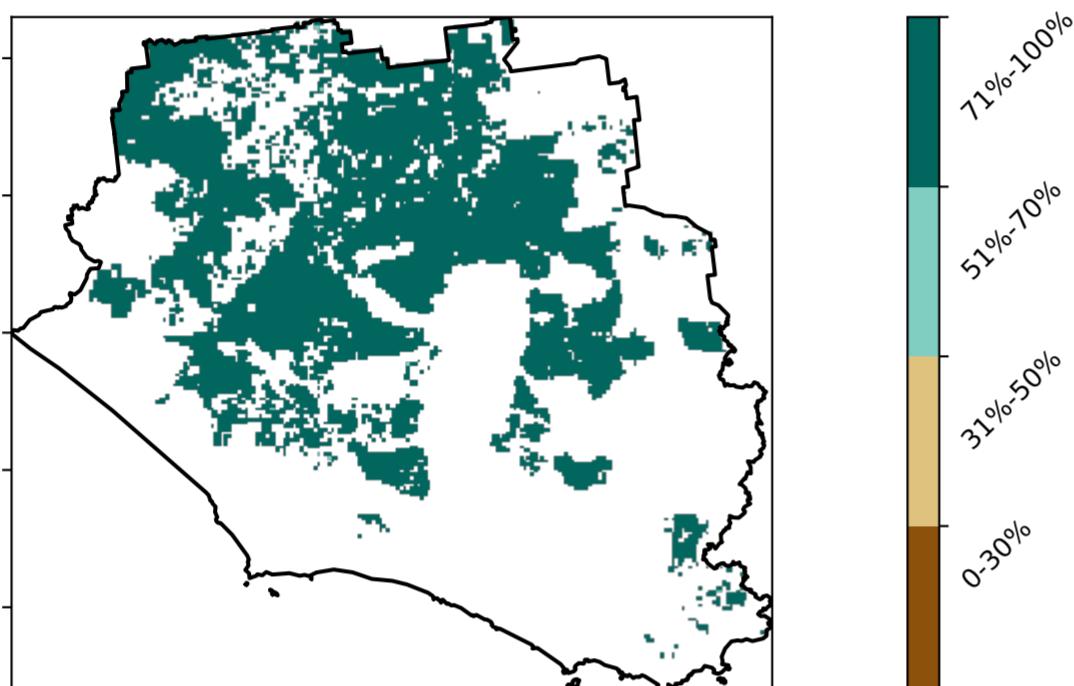
# Production native forests and plantation forests

**Land use and forest cover**

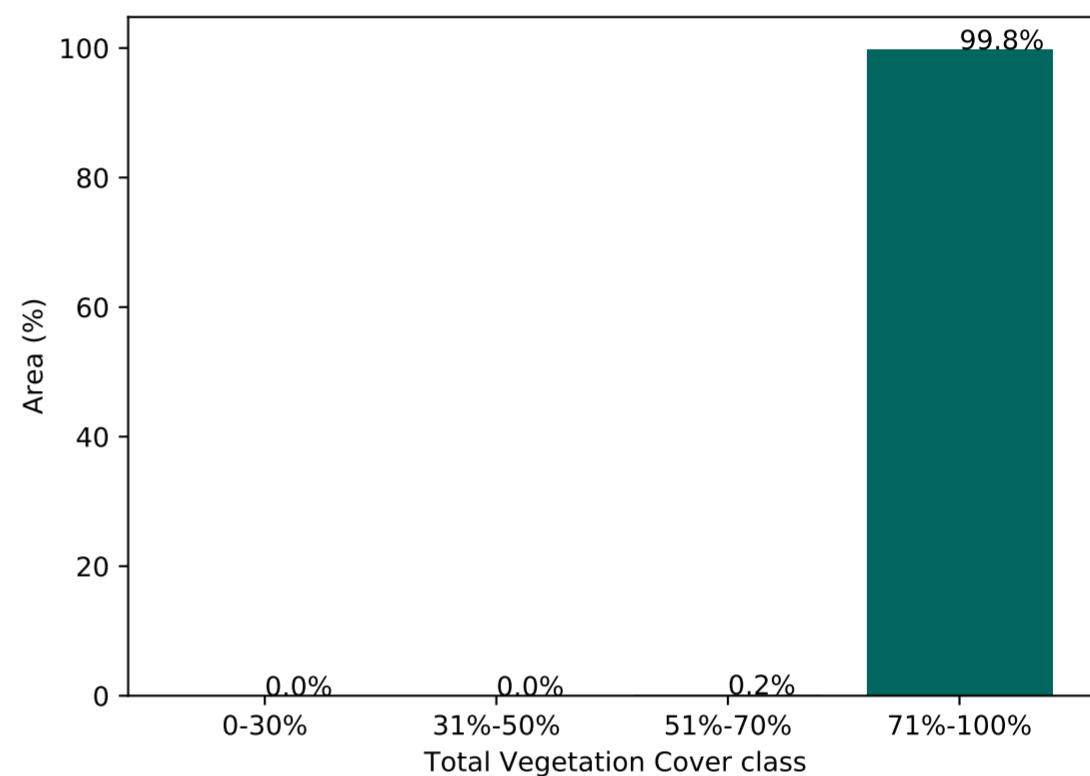
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



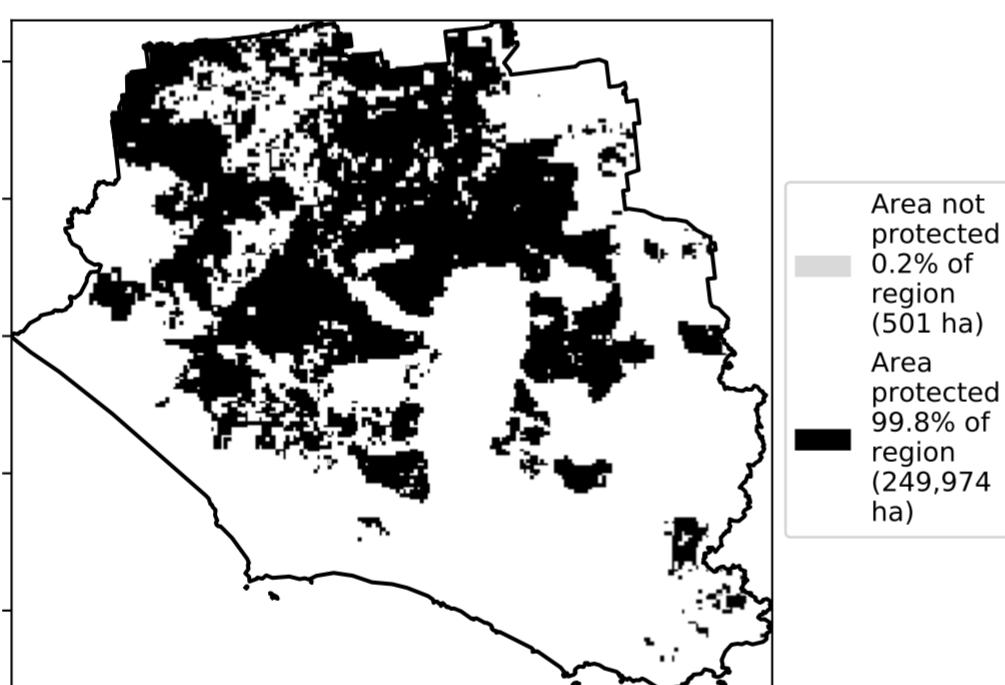
**Total Vegetation Cover [%]**



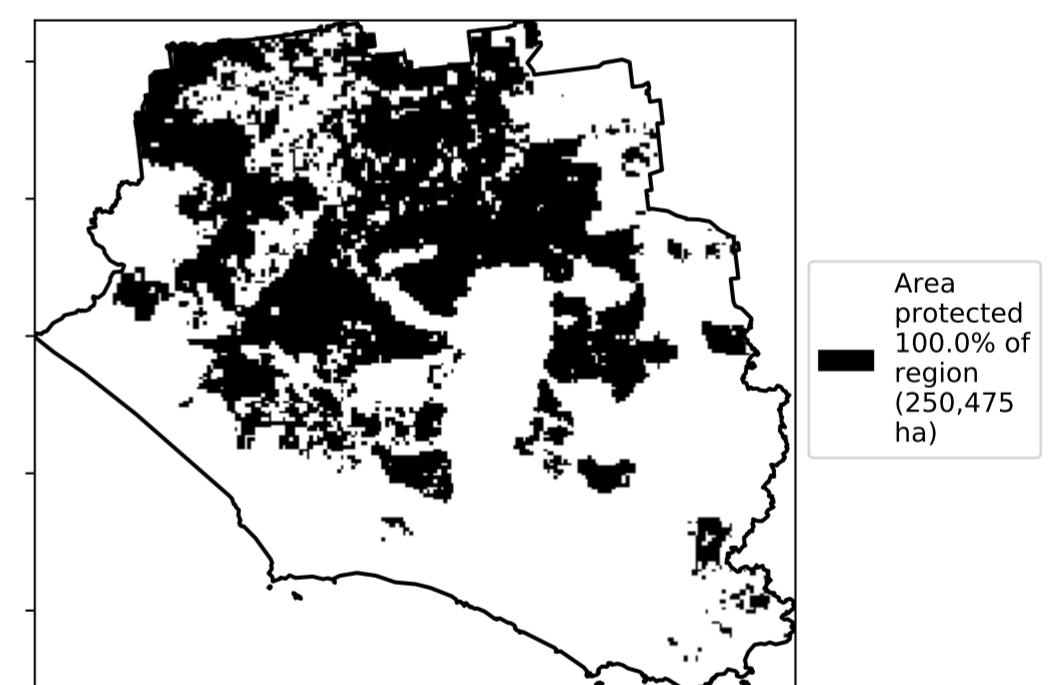
**Proportion of vegetation cover class in area**



**% Area protected from water erosion (>70%)**

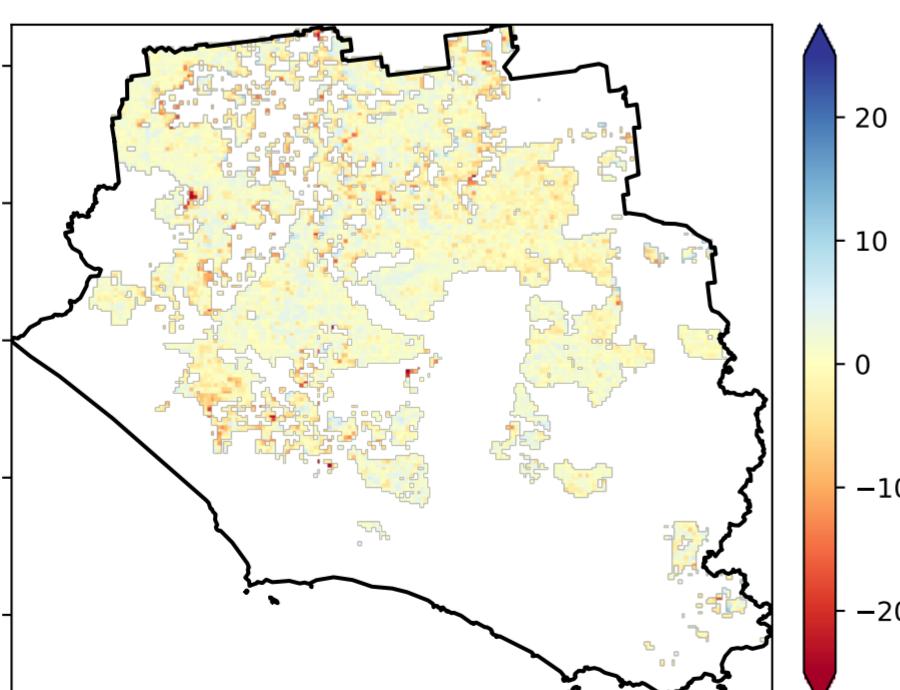


**% Area protected from wind erosion (>50%)**



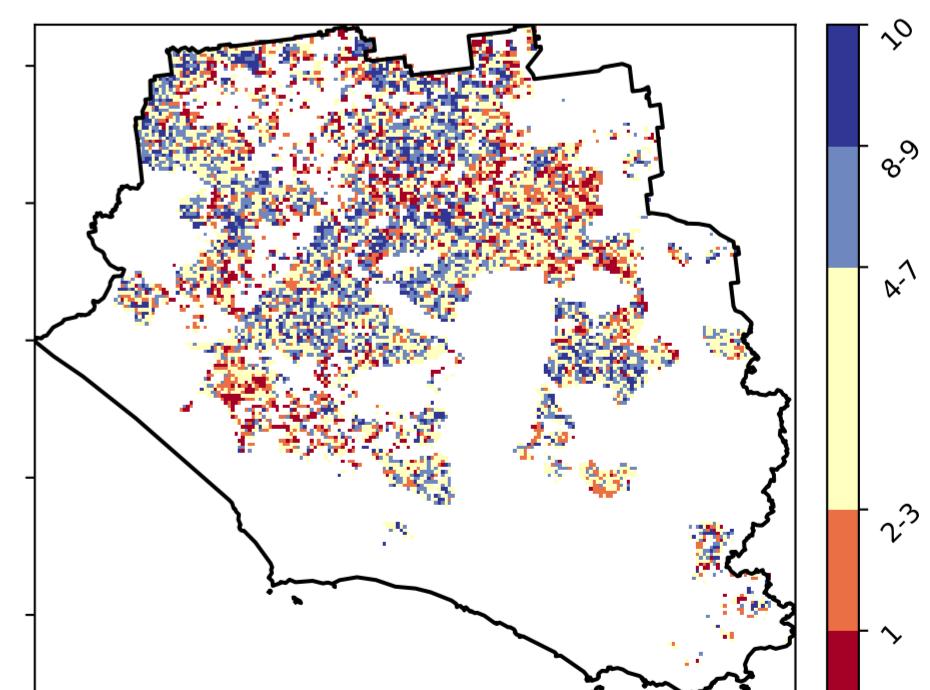
**Total Vegetation Cover Anomaly [%]**

Anomaly shows 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.



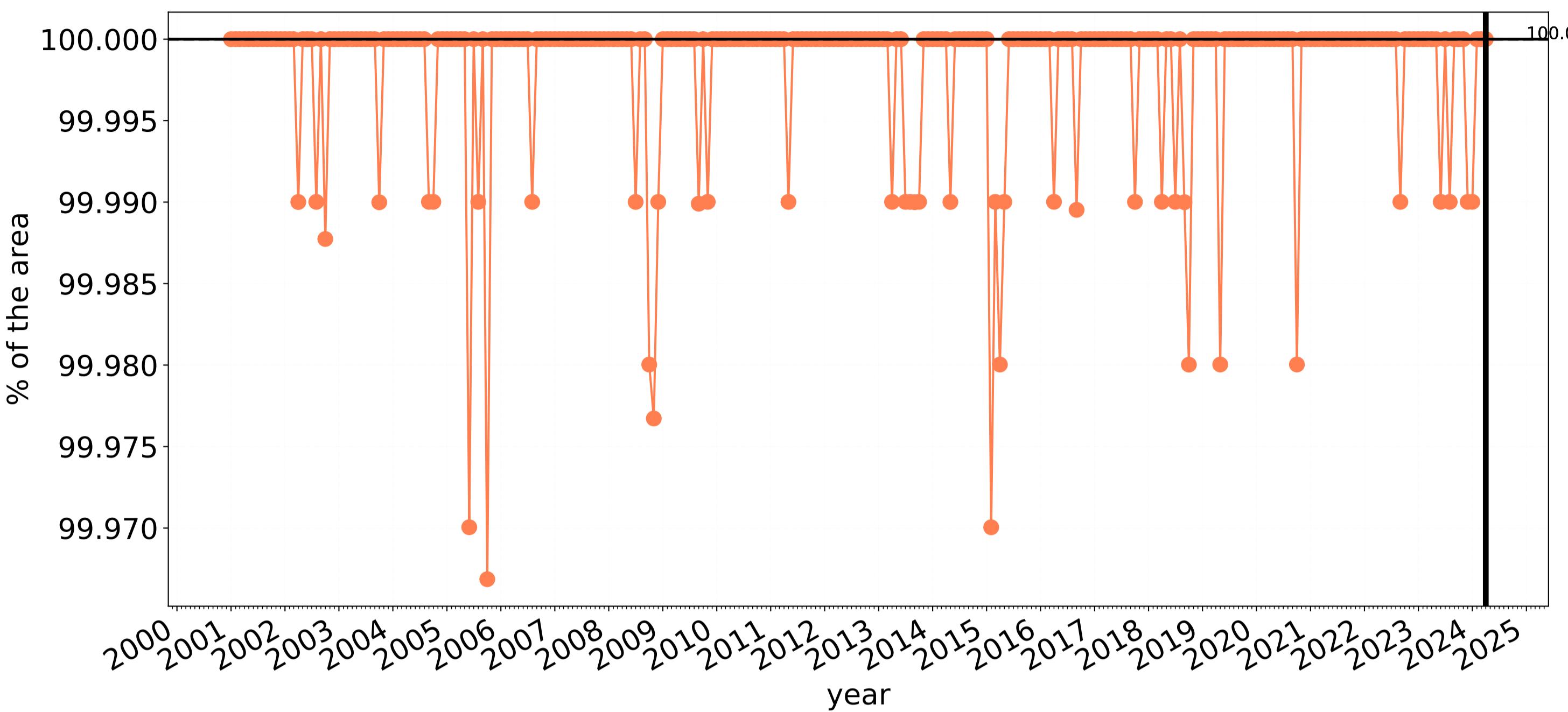
Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

**Total Vegetation Cover Decile [%]**

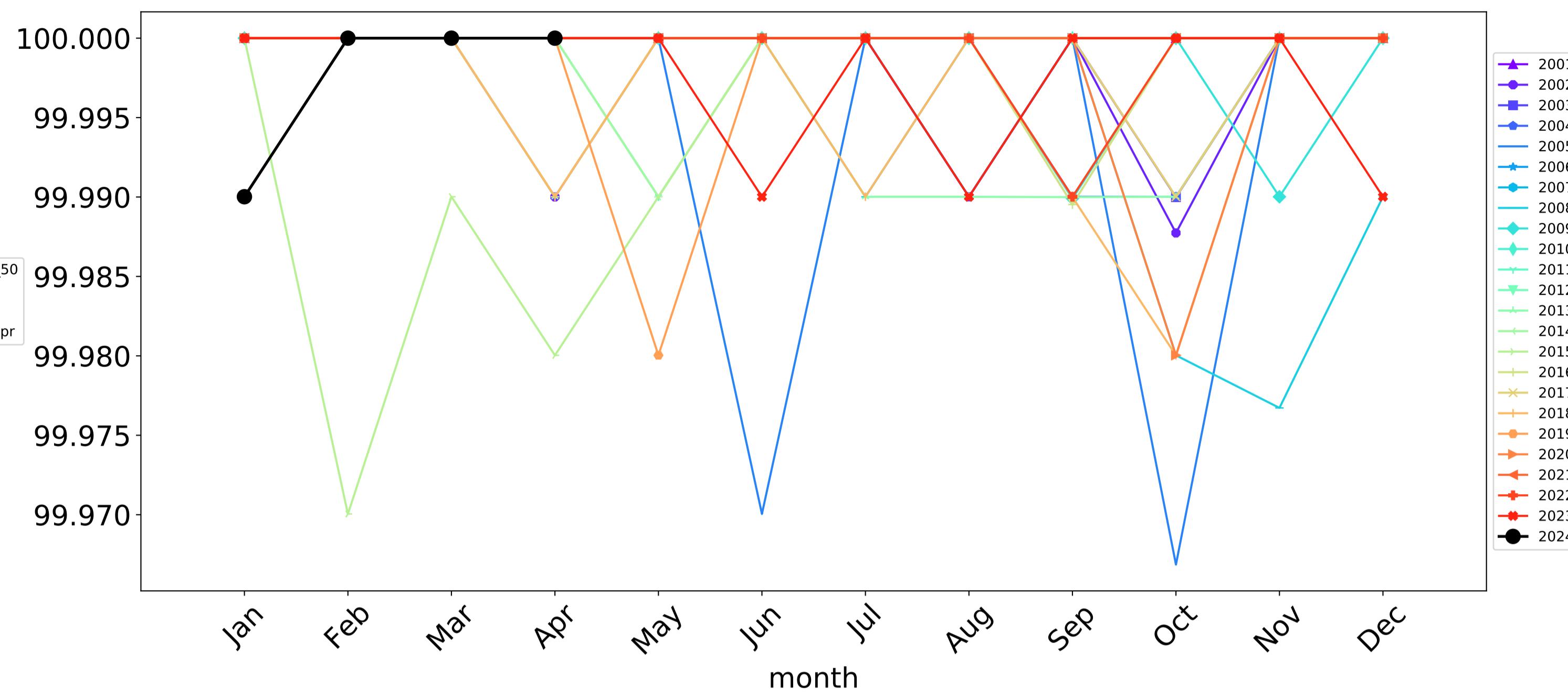


### Production native forests and plantation forests timeseries

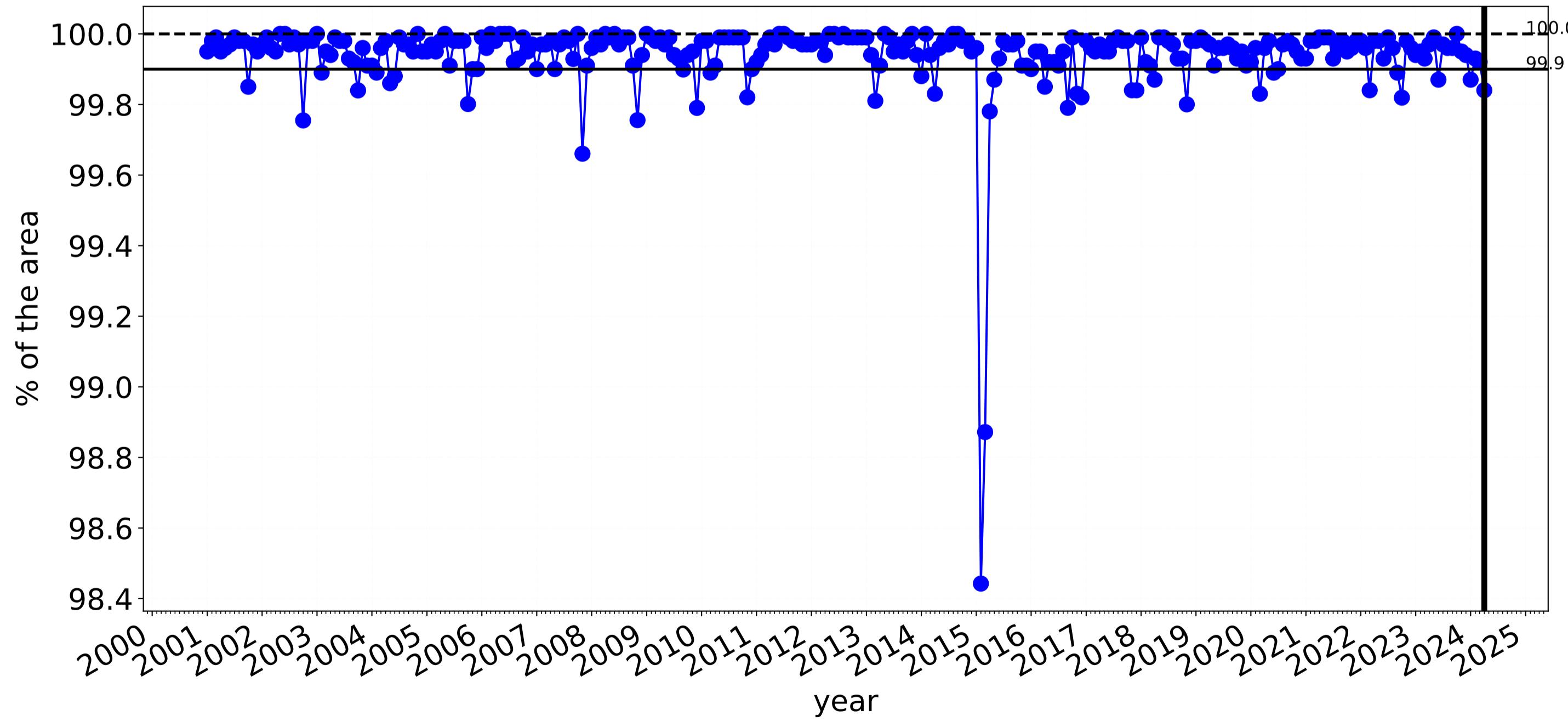
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



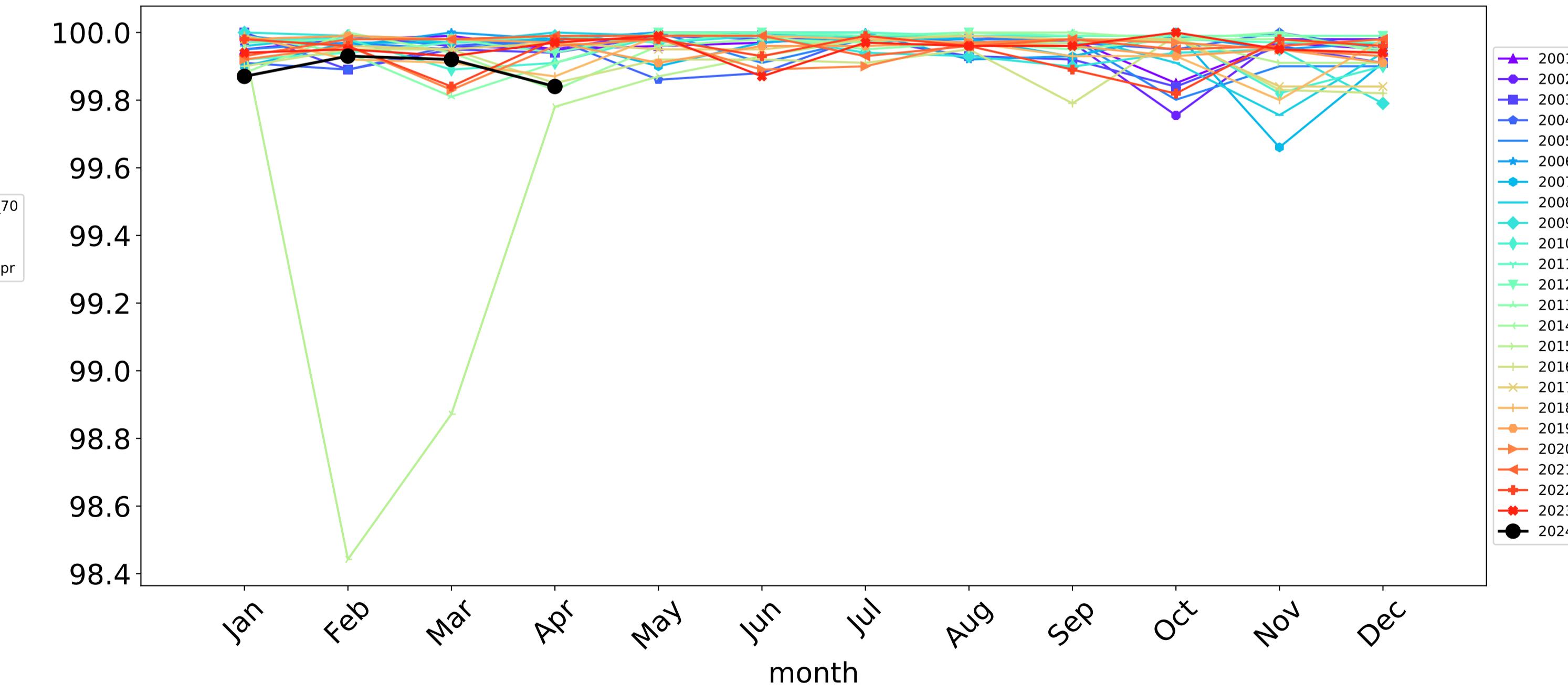
Wind erosion historical monthly area protected (Total Veg Cov >50%)



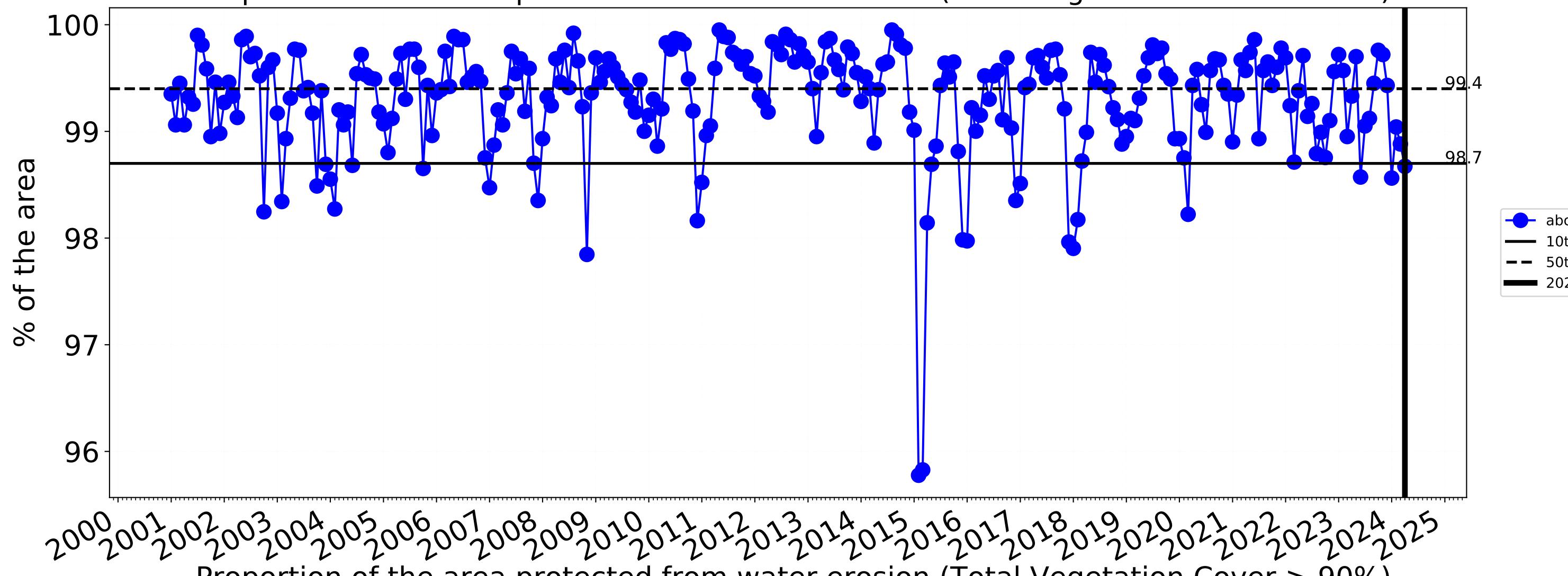
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



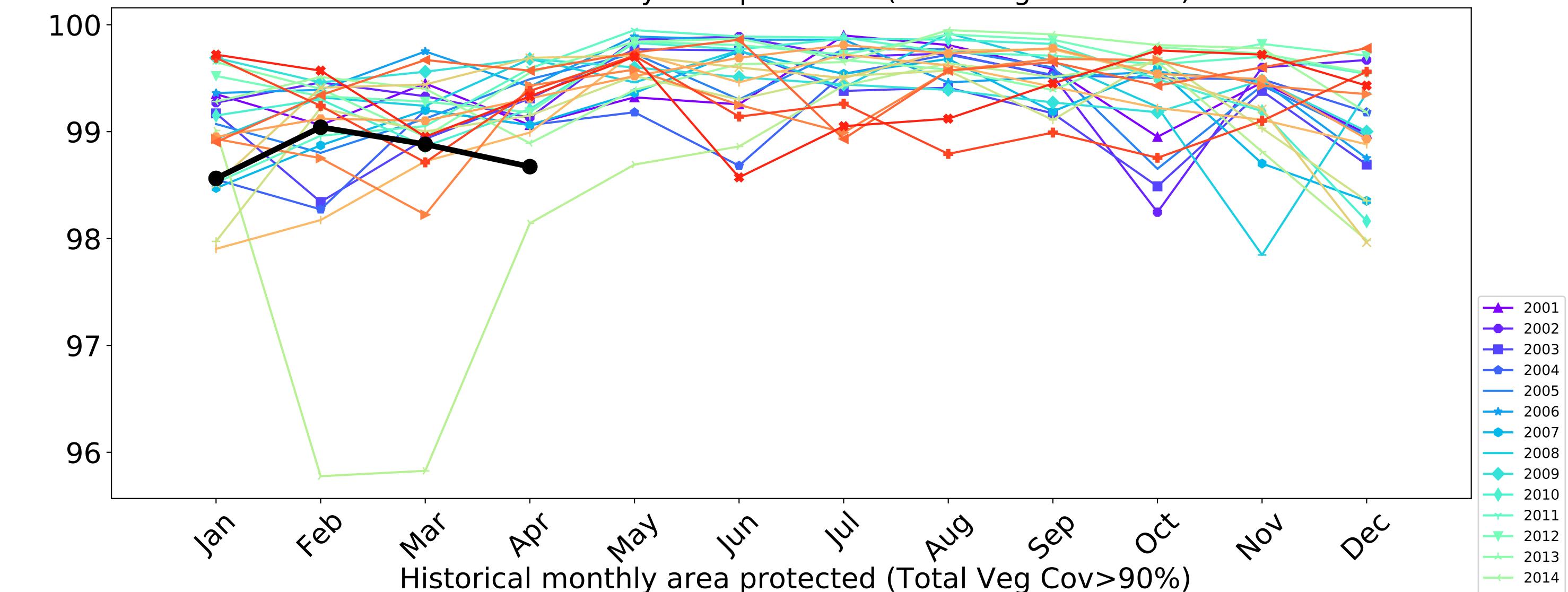
Water erosion historical monthly area protected (Total Veg Cov>70%)



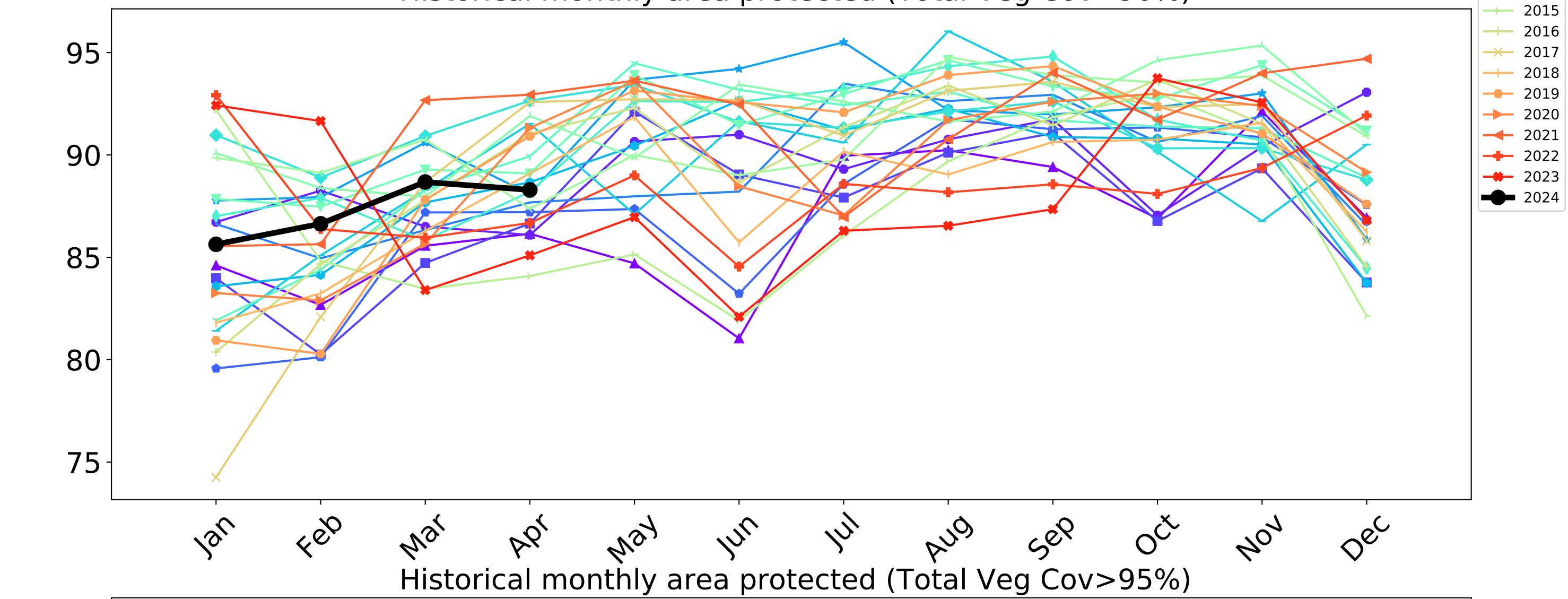
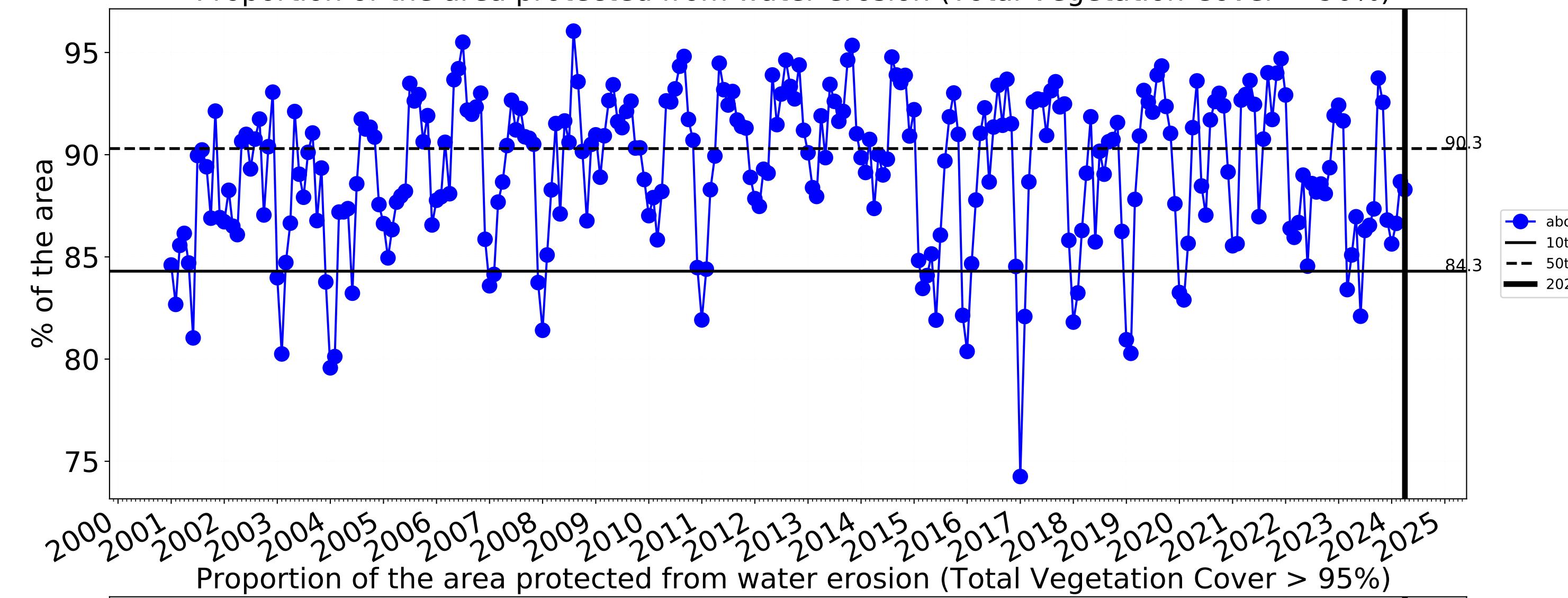
Proportion of the area protected from water erosion (Total Vegetation Cover > 80%)



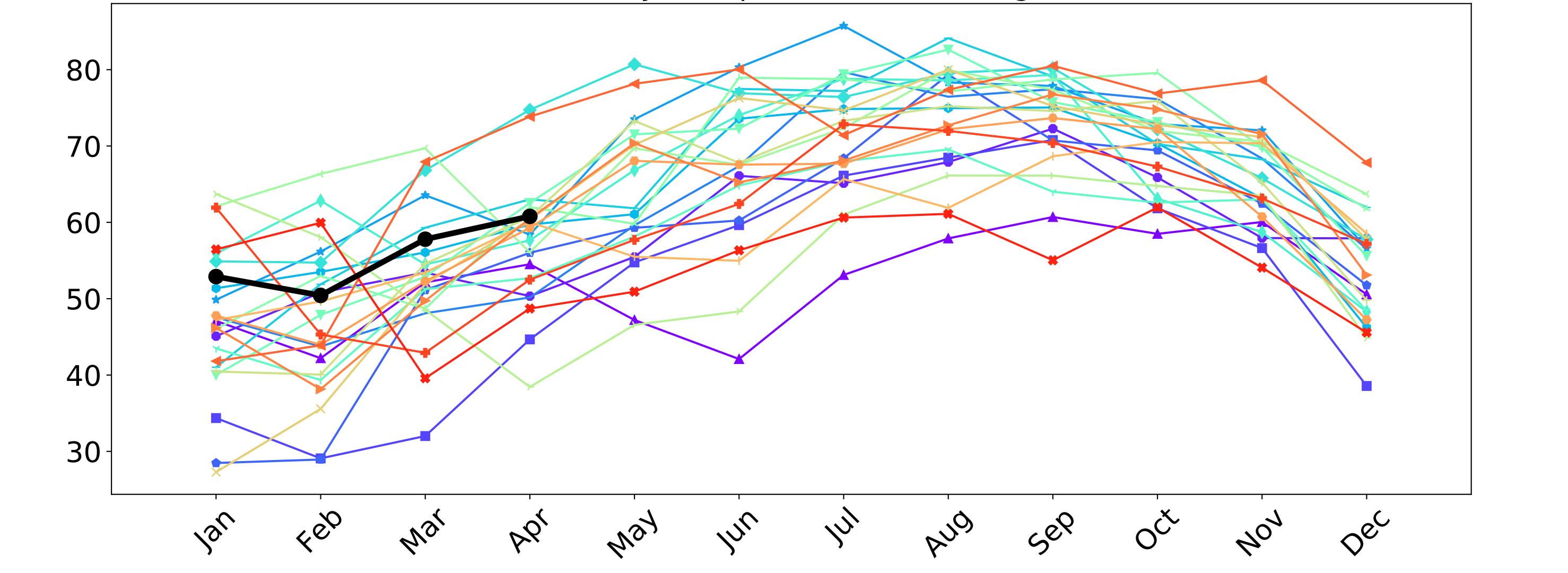
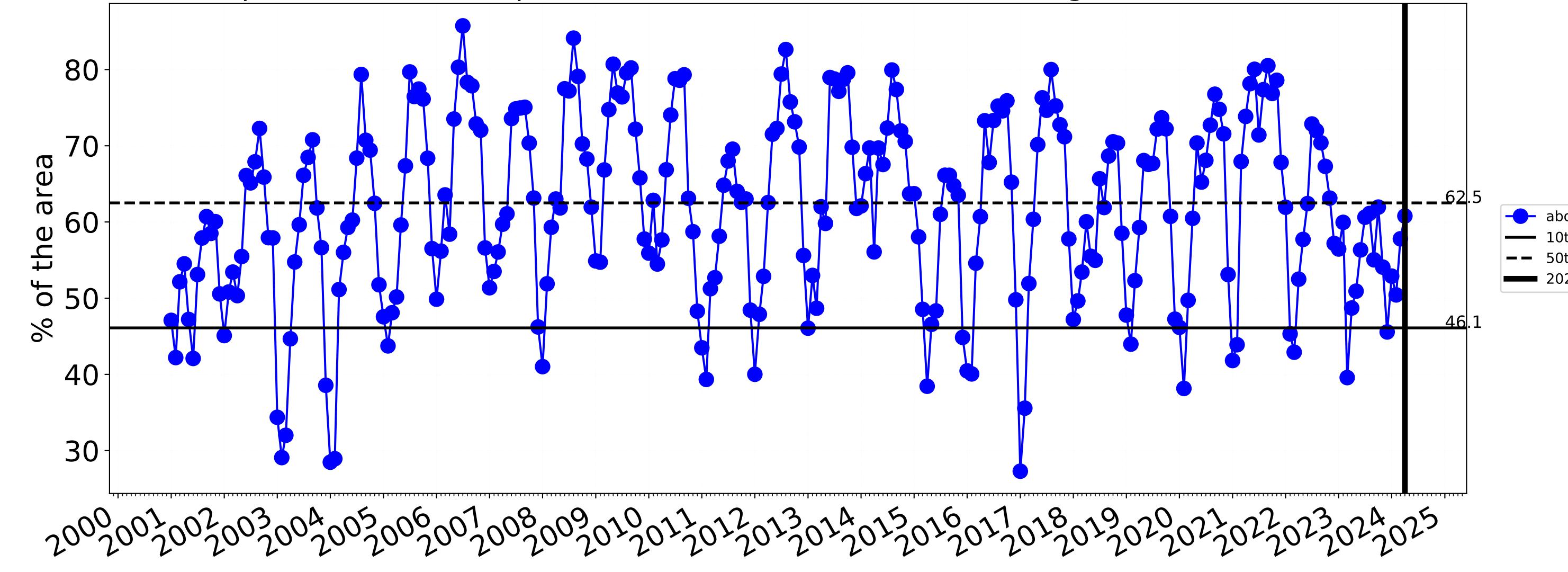
Historical monthly area protected (Total Veg Cov>80%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 90%)



Proportion of the area protected from water erosion (Total Vegetation Cover > 95%)



**Manjimup\_(S) (690,850 ha and no data 12,243 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	690,850	99.8% 689,625	99.7% 688,575	98.9% 683,500	96.2% 664,275	80.9% 558,875	50.2% 346,500
Conservation and natural environments	370,100	99.7% 369,025	99.5% 368,075	98.5% 364,675	96.3% 356,500	84.6% 313,025	49.9% 184,825
Conservation and natural environments non forest	55,900	98.1% 54,850	96.6% 54,025	92.9% 51,925	85.5% 47,775	55.3% 30,900	14.2% 7,925
Conservation and natural environments Woodland forest	71,575	100.0% 71,575	99.8% 71,450	98.1% 70,250	94.0% 67,275	73.2% 52,375	30.3% 21,675
Conservation and natural environments Forest (non woodland)	242,625	100.0% 242,600	100.0% 242,600	99.9% 242,500	99.5% 241,450	94.7% 229,750	64.0% 155,225
Agriculture	60,375	100.0% 60,375	100.0% 60,375	99.6% 60,150	89.2% 53,850	35.9% 21,675	13.7% 8,250
Grazing	45,425	100.0% 45,425	100.0% 45,425	99.6% 45,250	87.7% 39,850	33.6% 15,250	12.3% 5,600
Grazing non forest	43,750	100.0% 43,750	100.0% 43,750	99.6% 43,575	87.7% 38,375	33.3% 14,550	11.9% 5,200
Irrigation	9,150	100.0% 9,150	100.0% 9,150	99.5% 9,100	92.1% 8,425	37.2% 3,400	13.1% 1,200
Production native forests and plantation forests	250,475	100.0% 250,475	100.0% 250,475	99.8% 250,075	98.7% 247,150	88.3% 221,150	60.8% 152,250



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