

# Total vegetation cover soil protection

## Region:LGA Byron\_(A) NSW

Date: October 2022

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

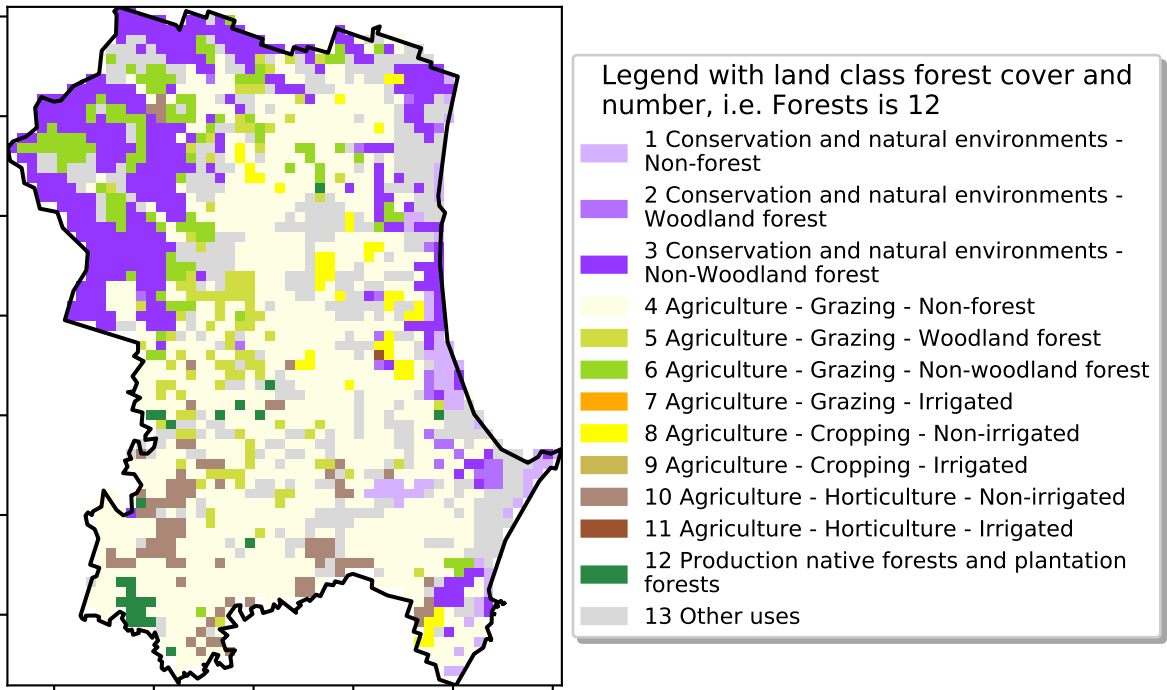


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Landcare  
Programme**



# Vegetation Cover Oct 2022

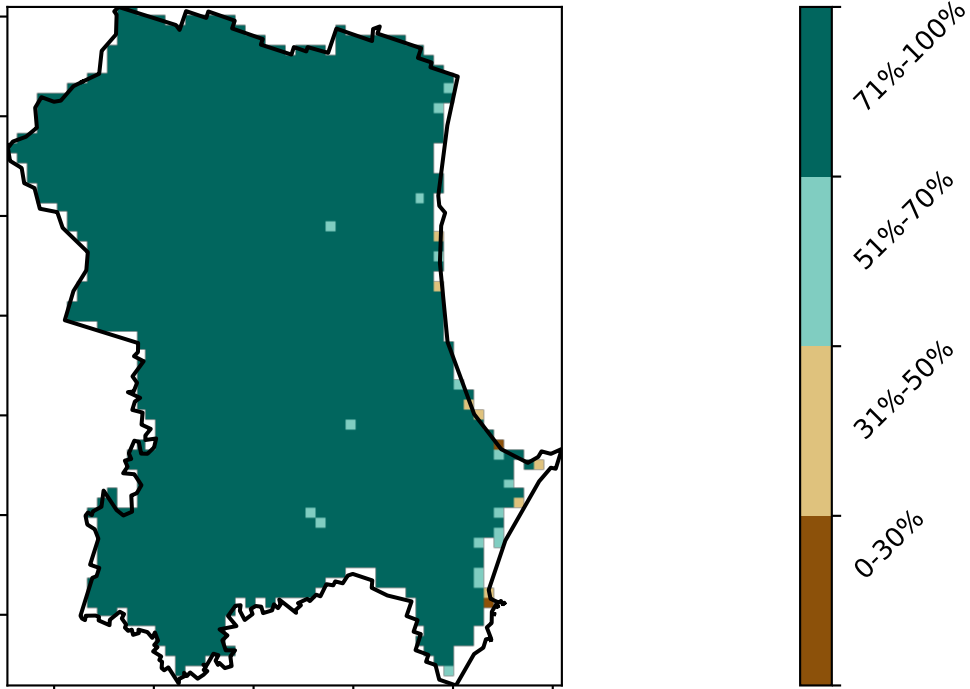
Land use and forest cover



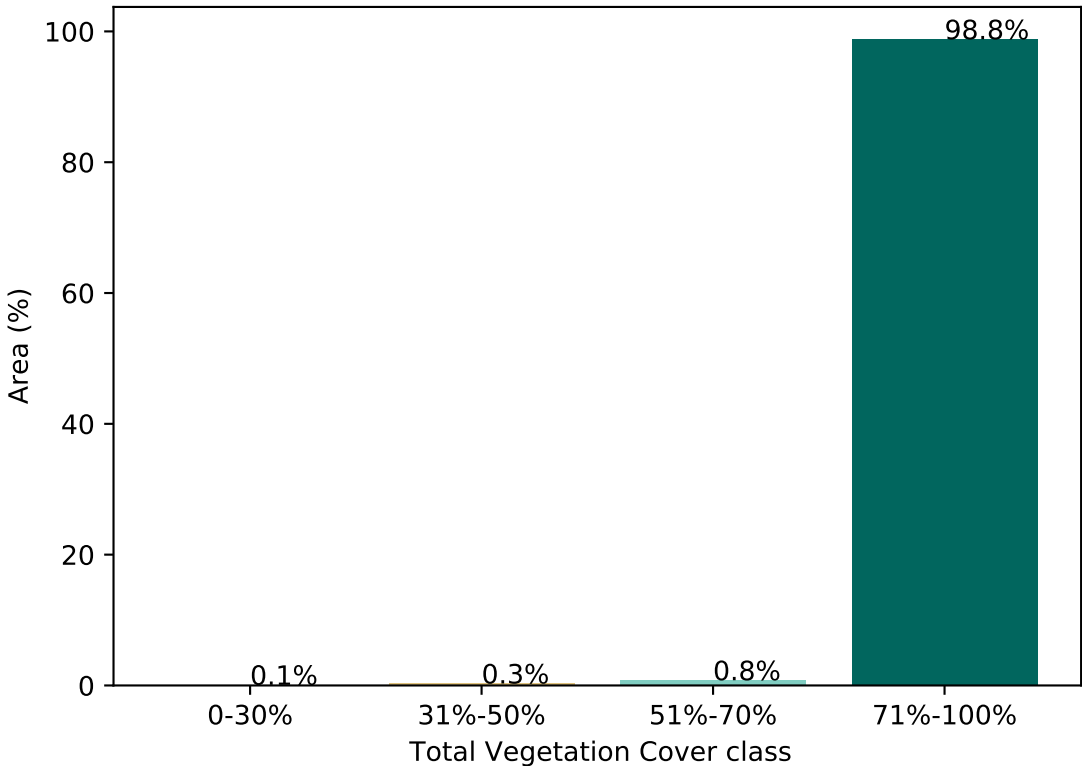
Proportion of each land class in area



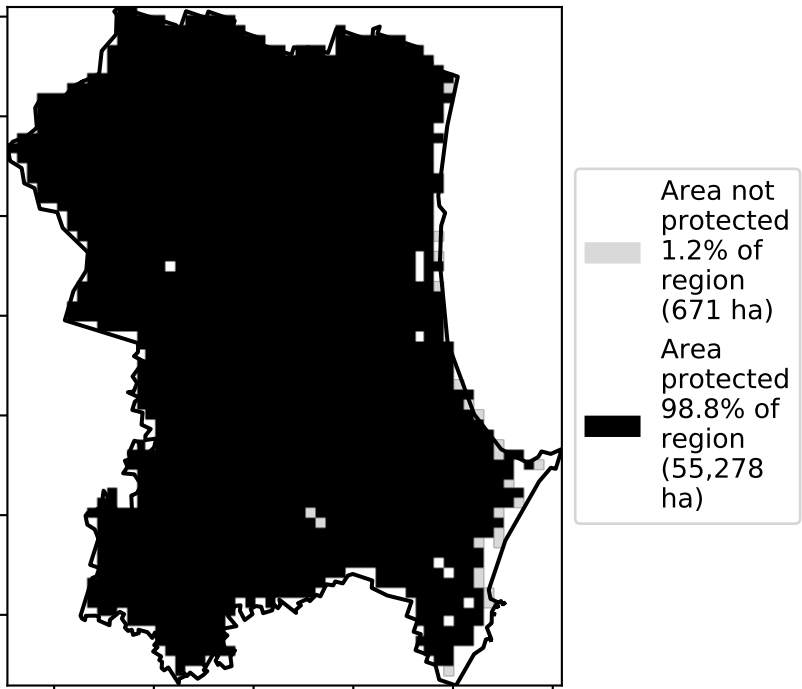
Total Vegetation Cover [%]



Proportion of vegetation cover class in area



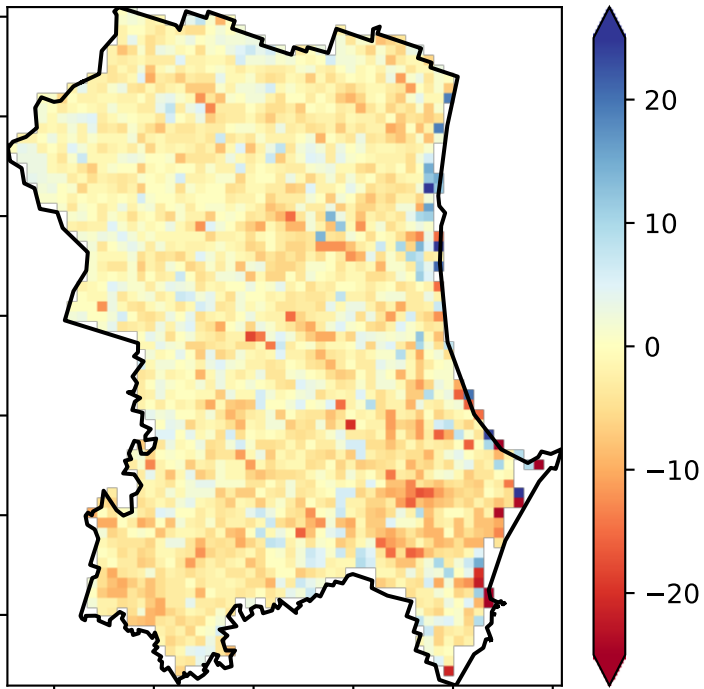
% Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)

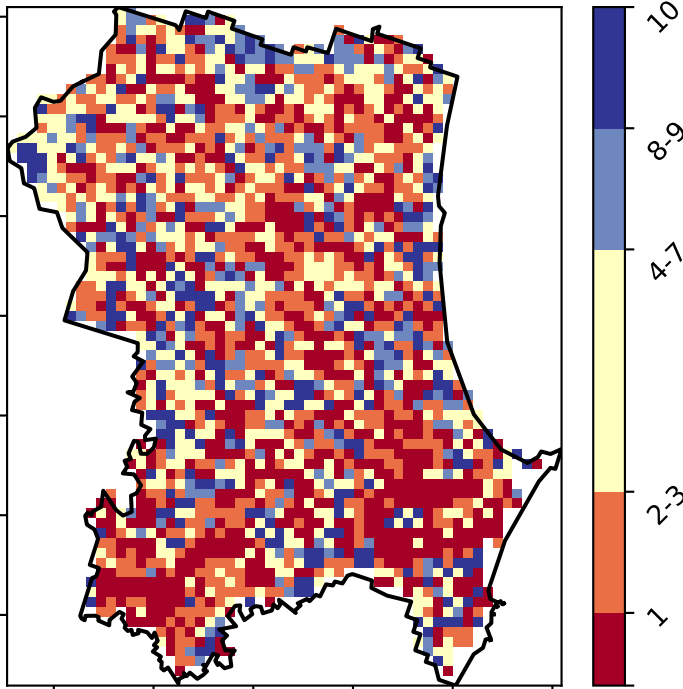


Total Vegetation Cover Anomaly [%]



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 [%]



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.



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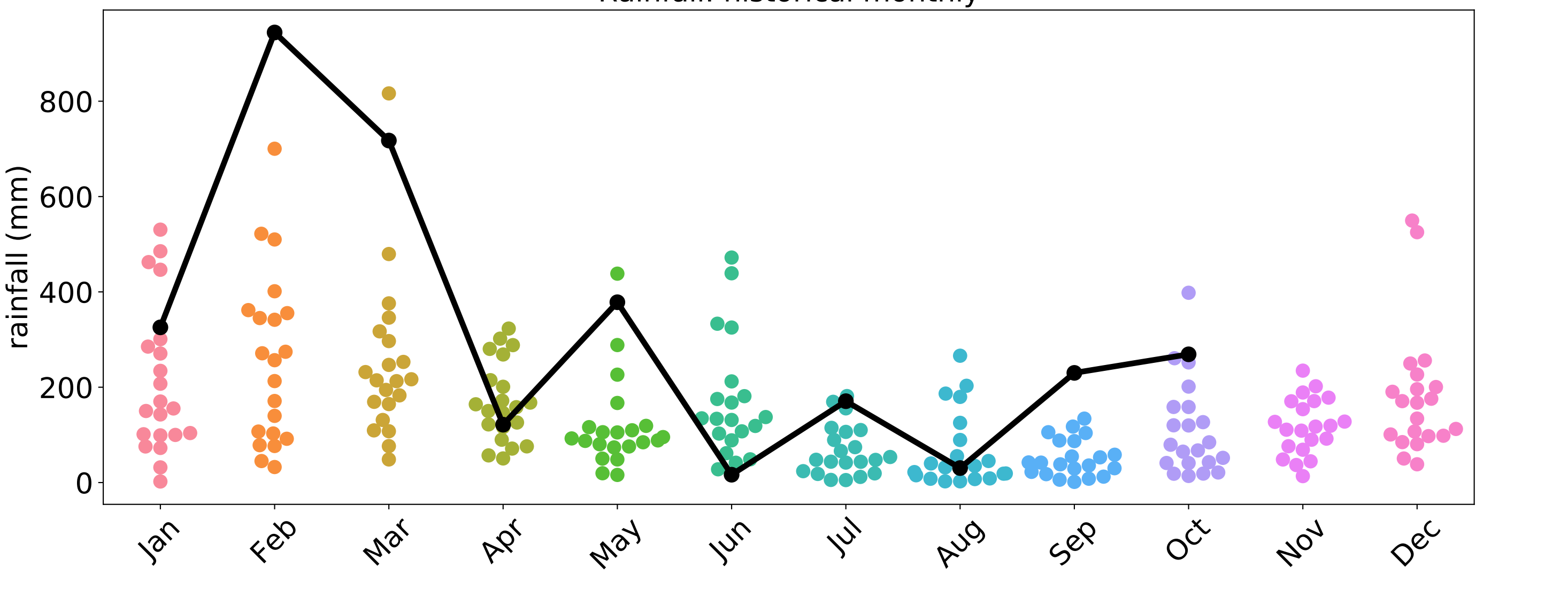
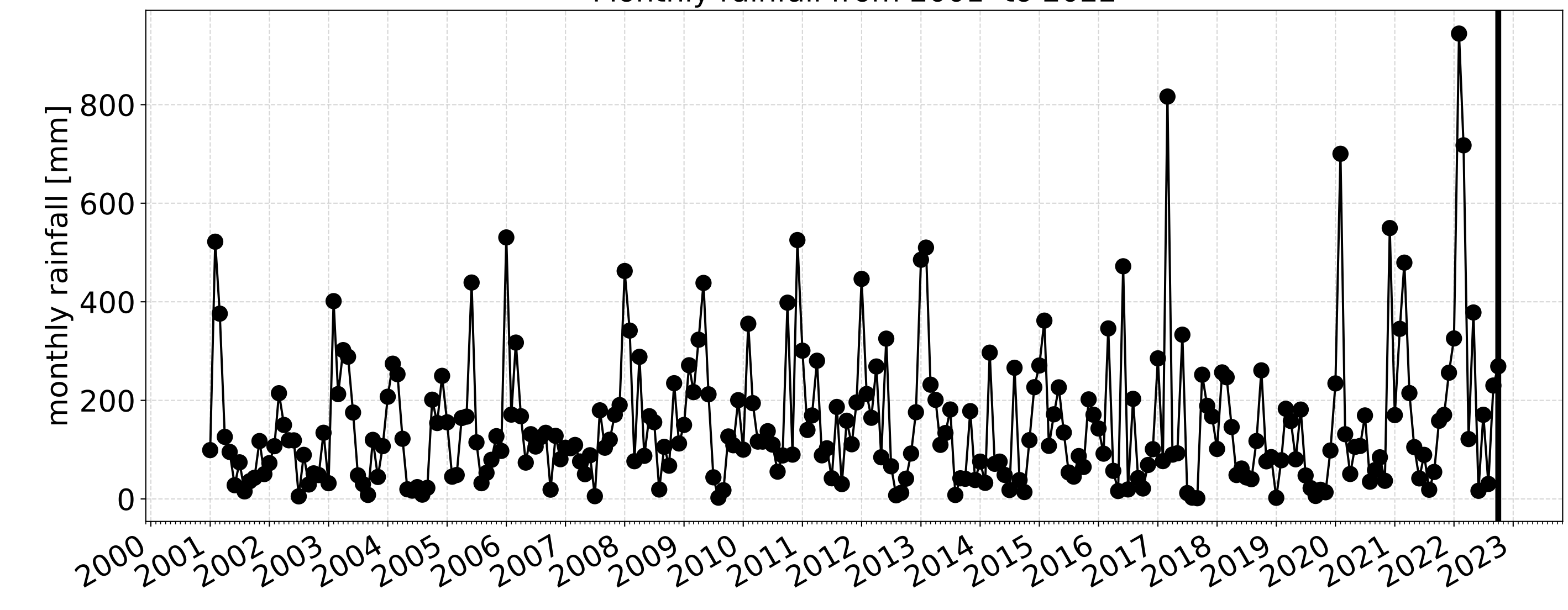
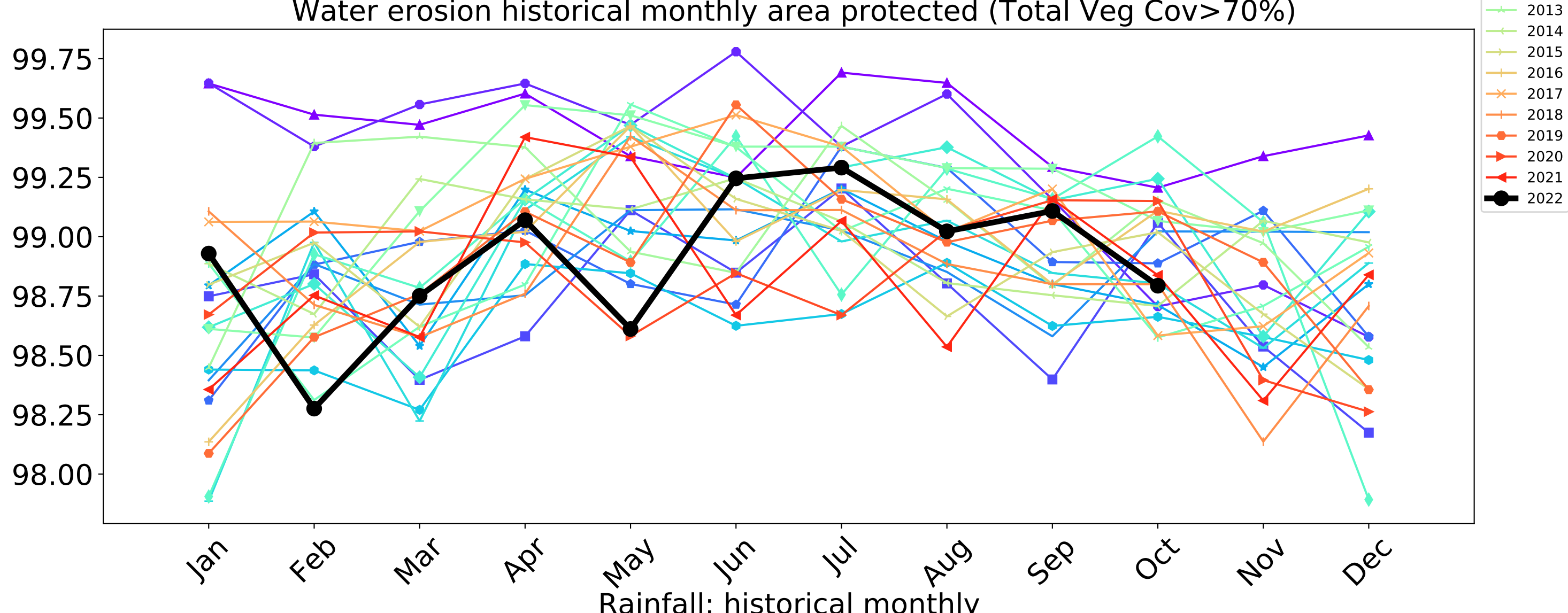
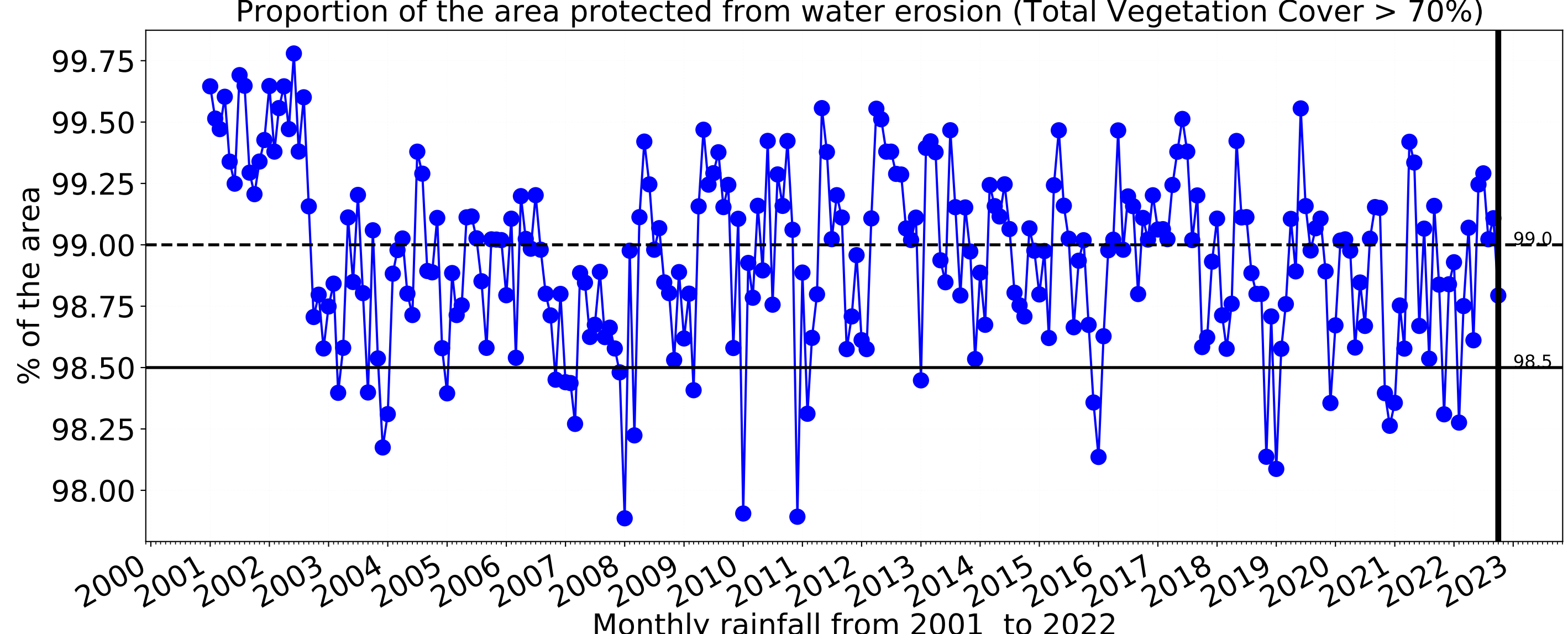
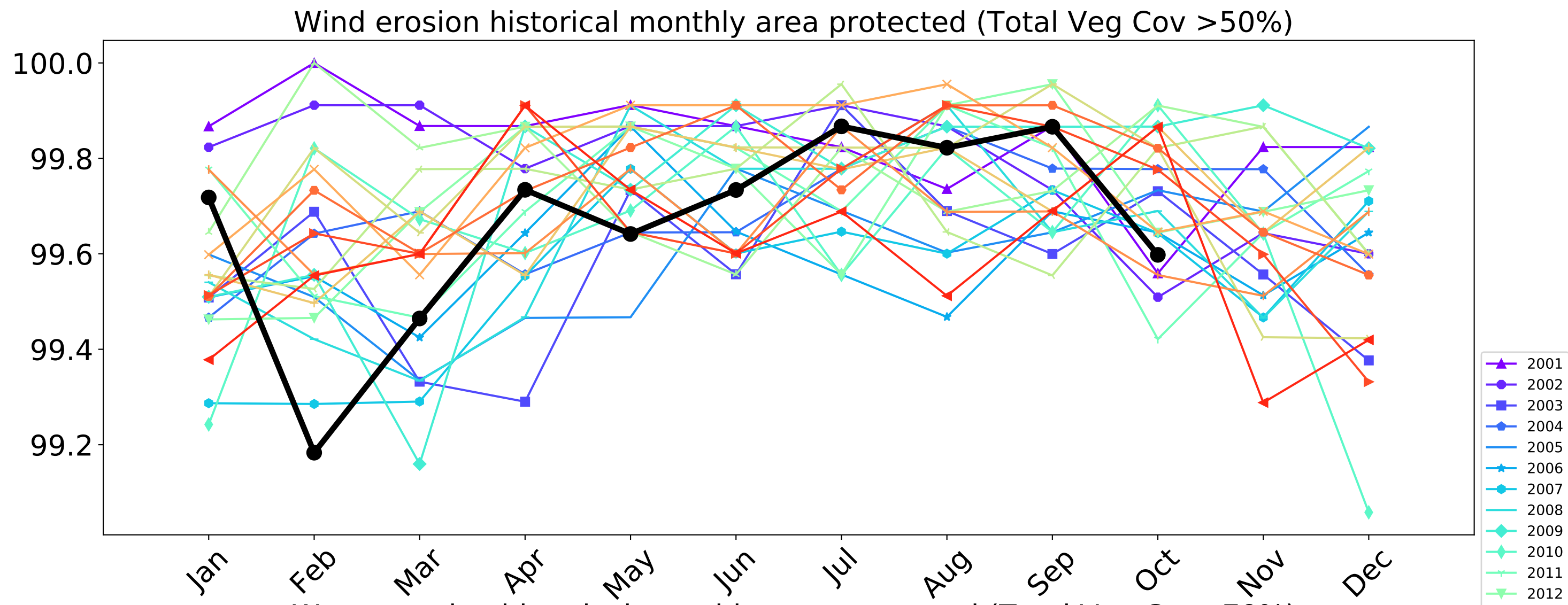
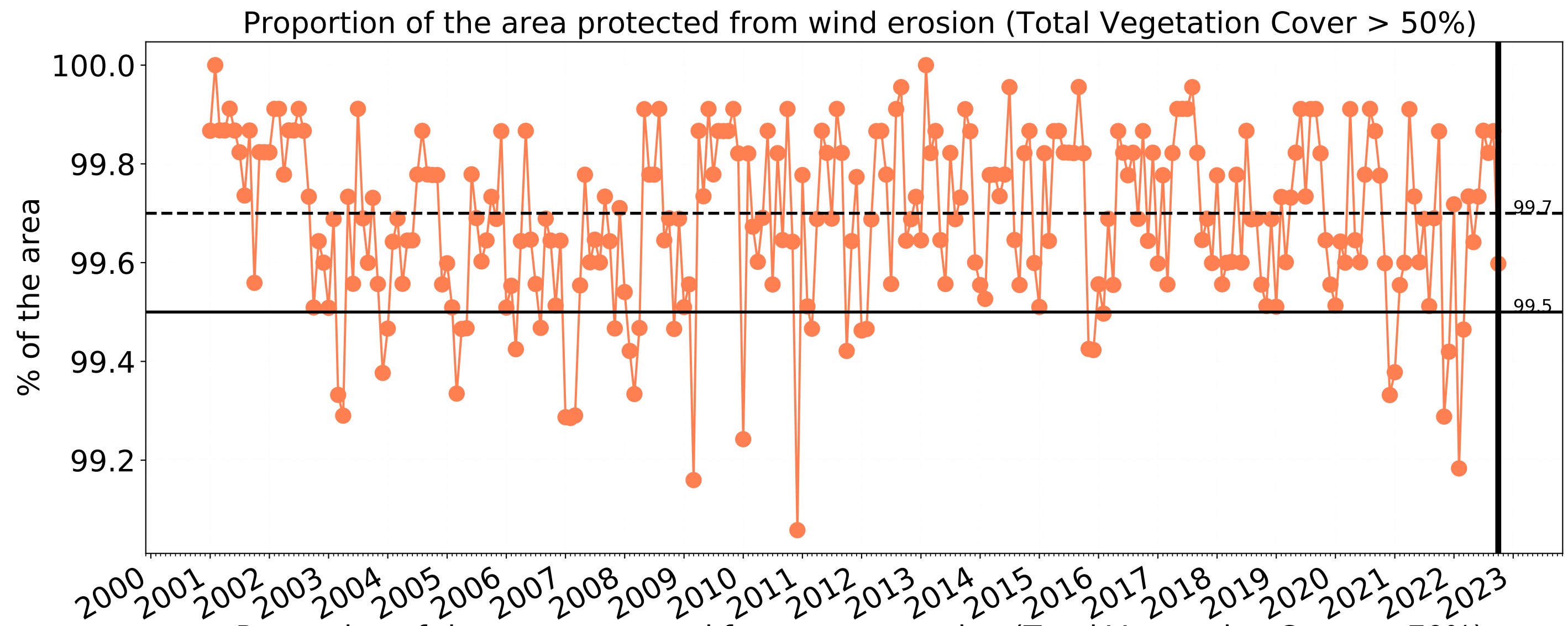


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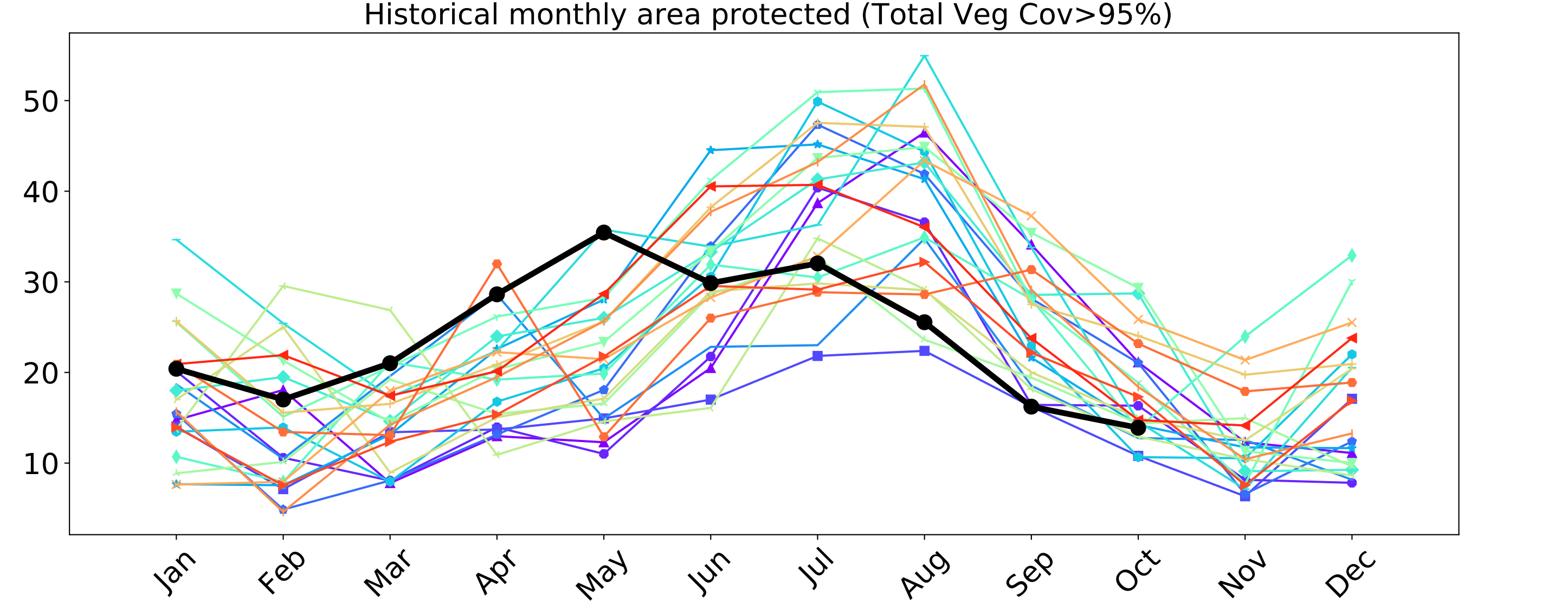
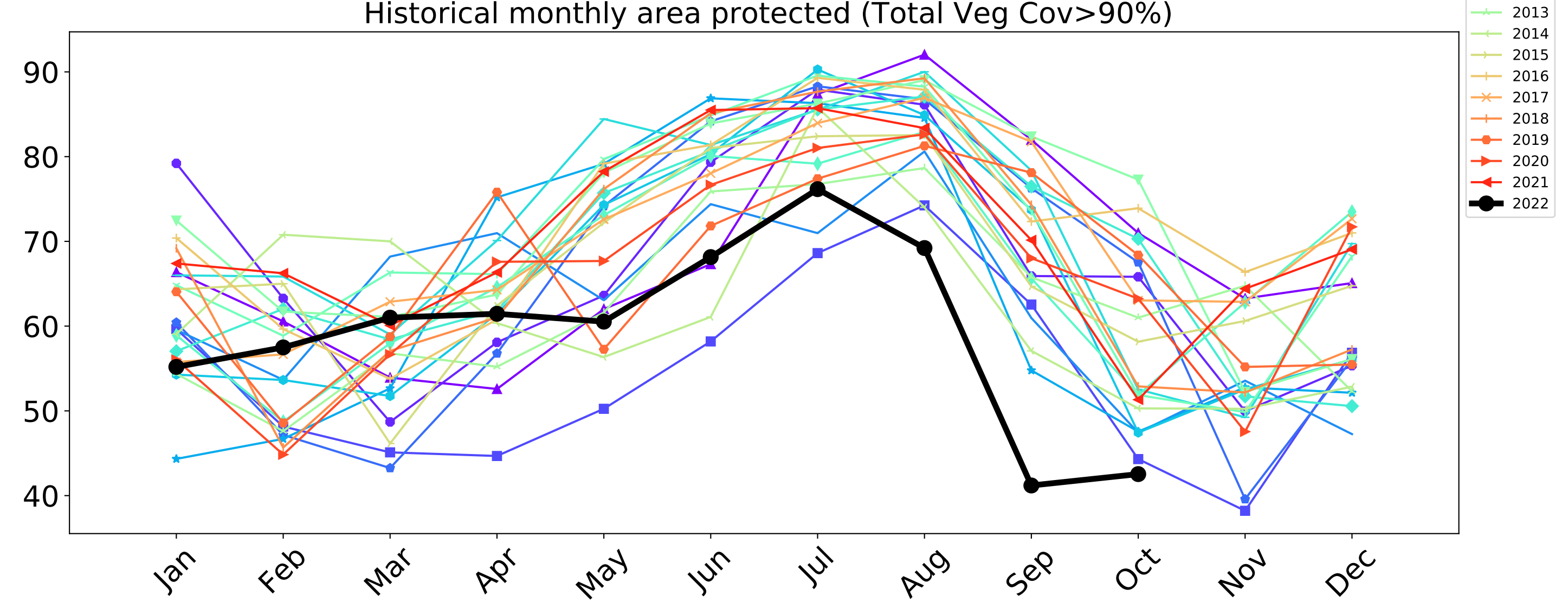
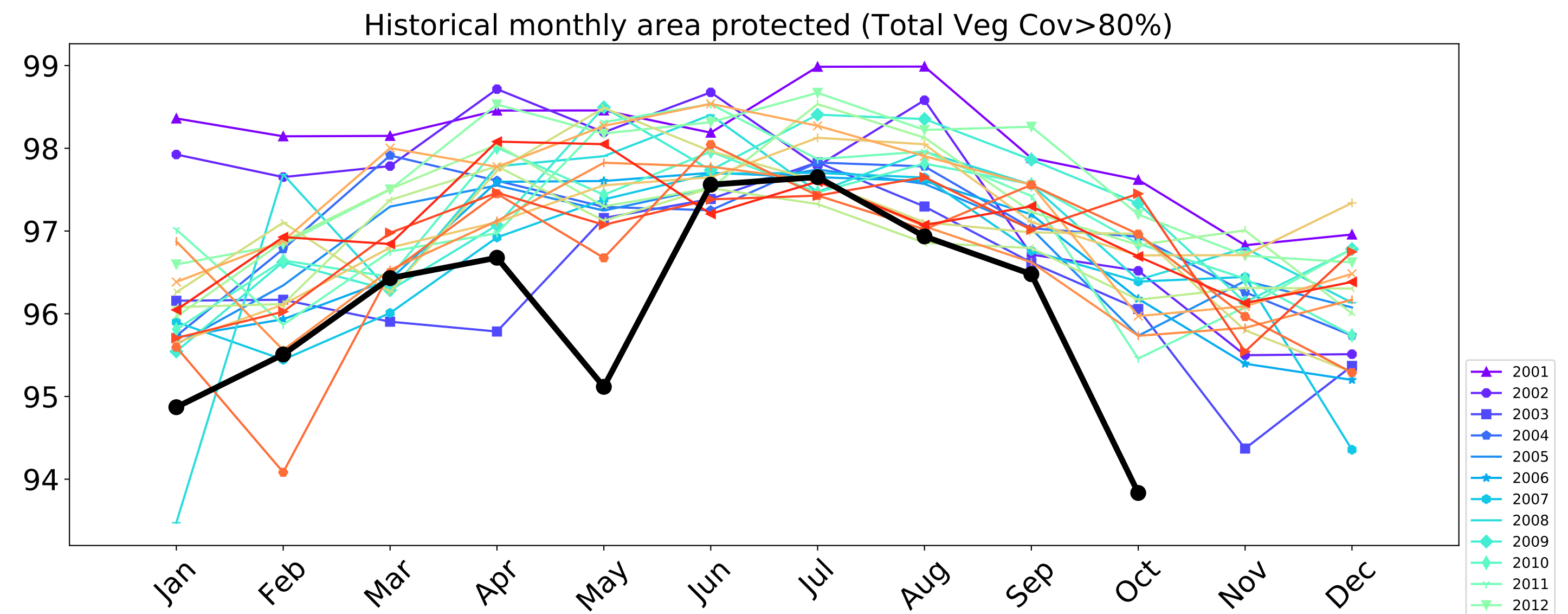
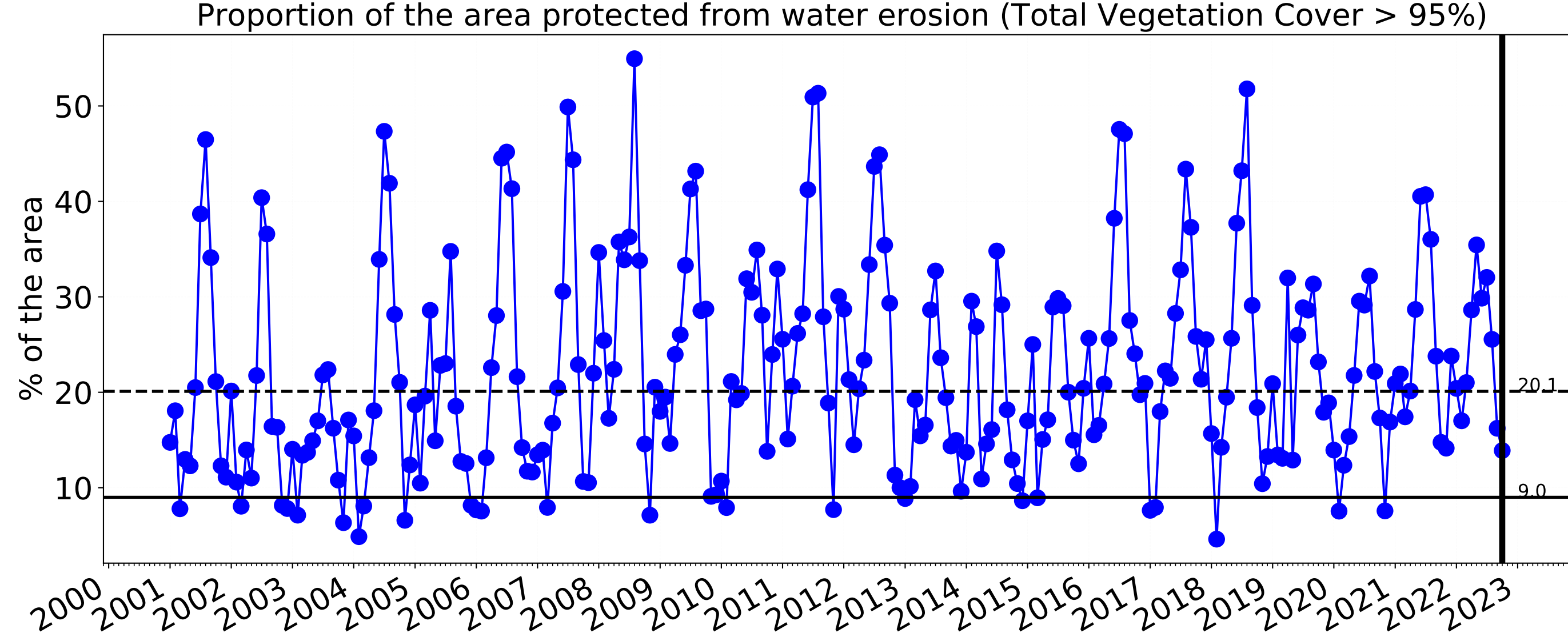
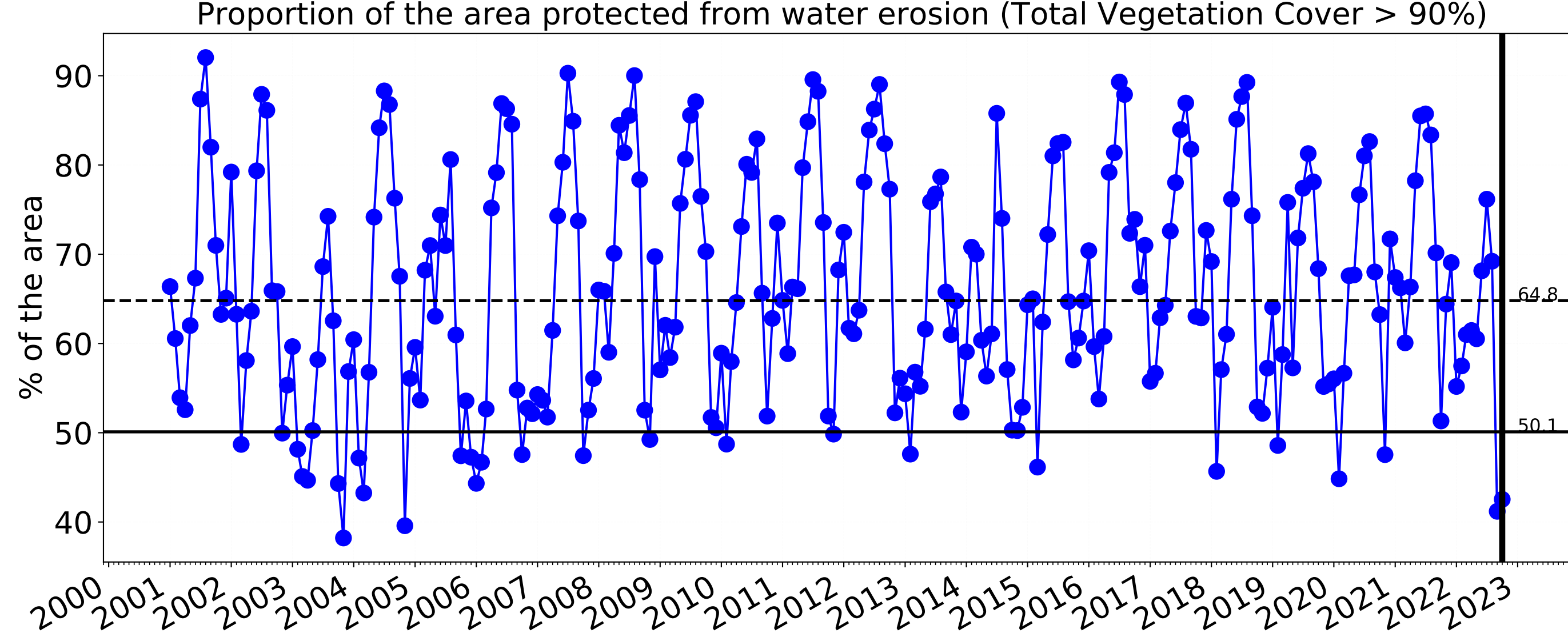
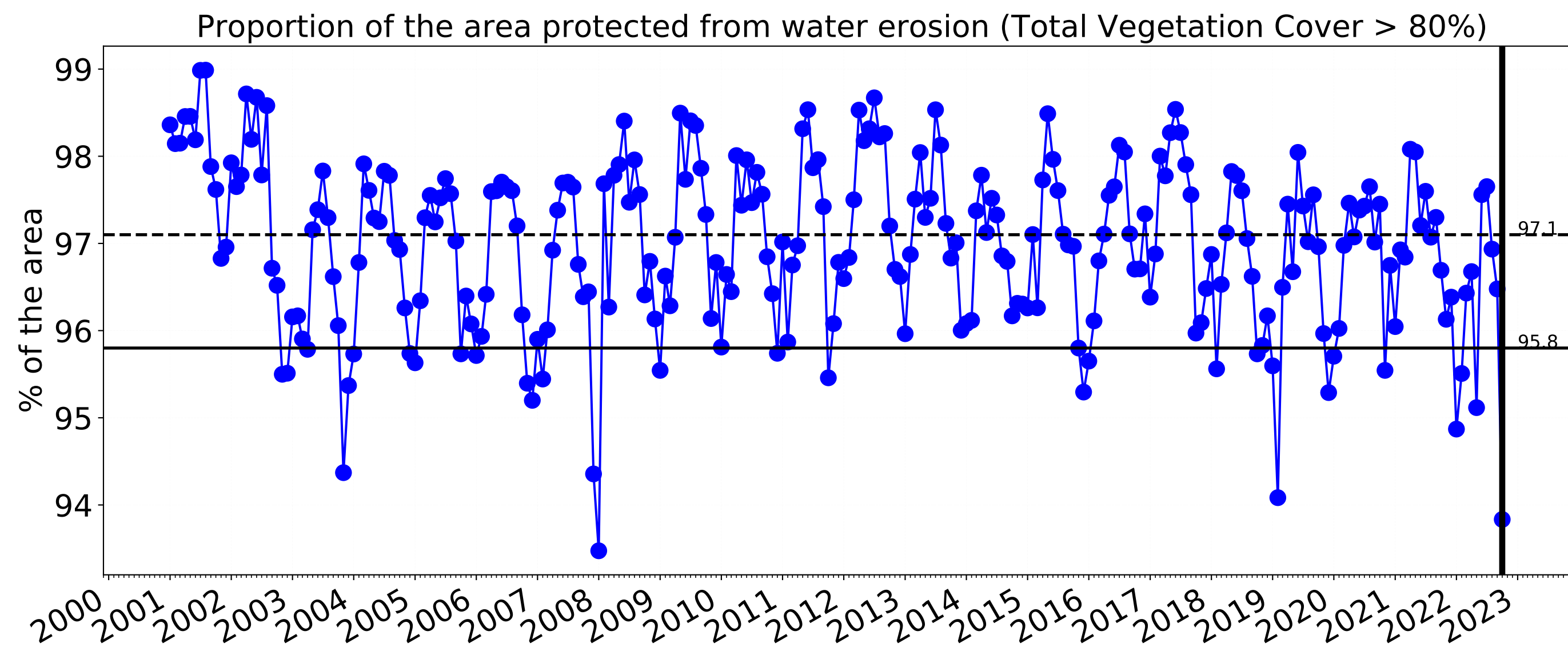
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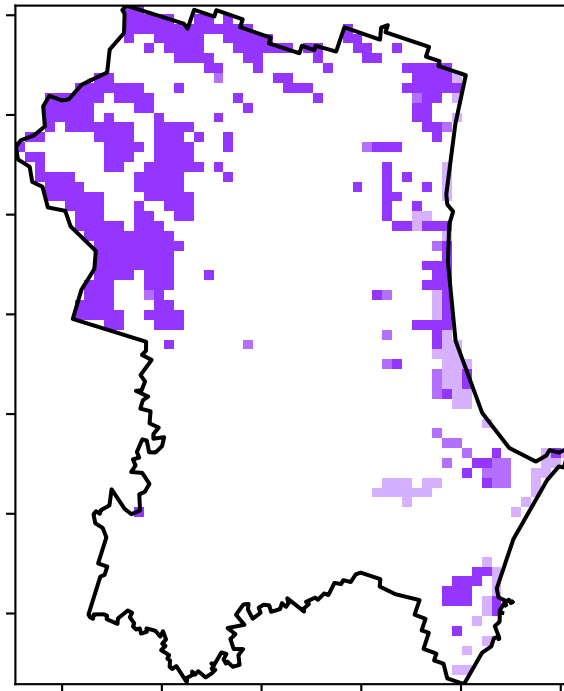






# Conservation and natural environments

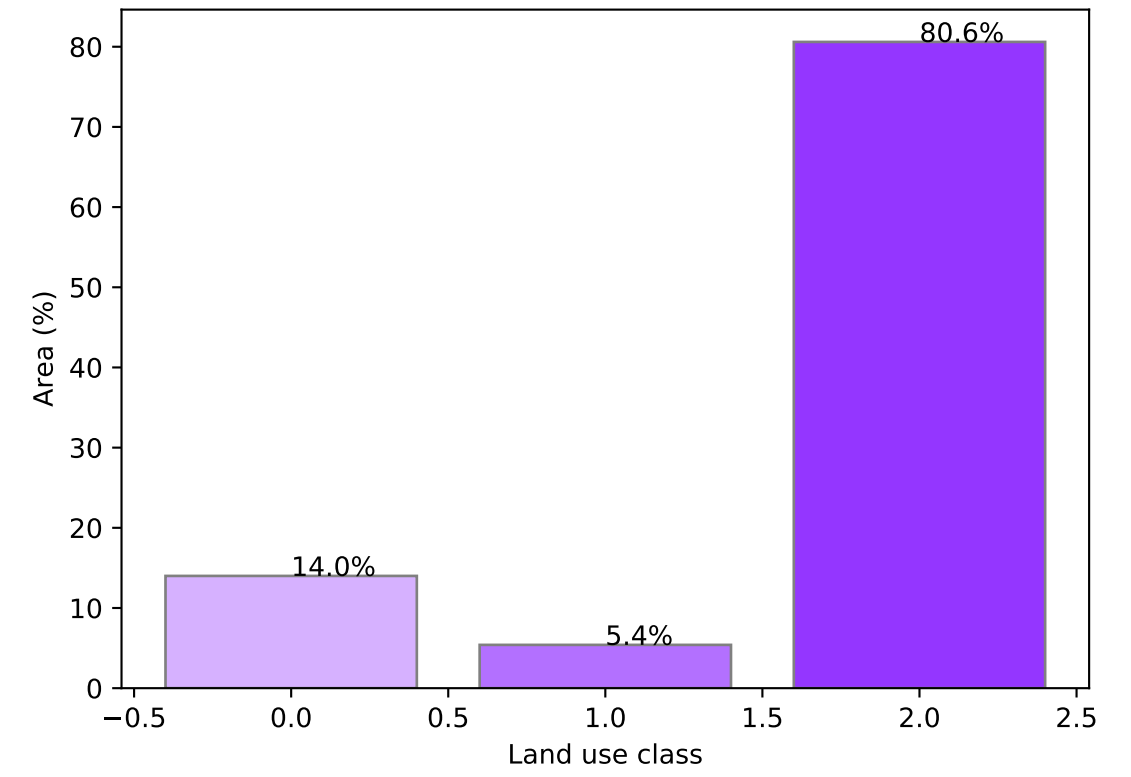
Land use and forest cover



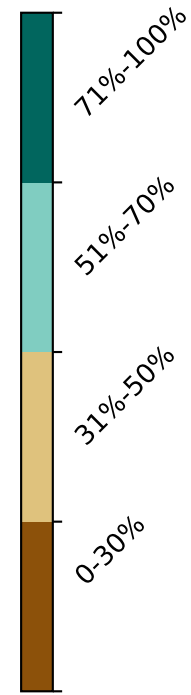
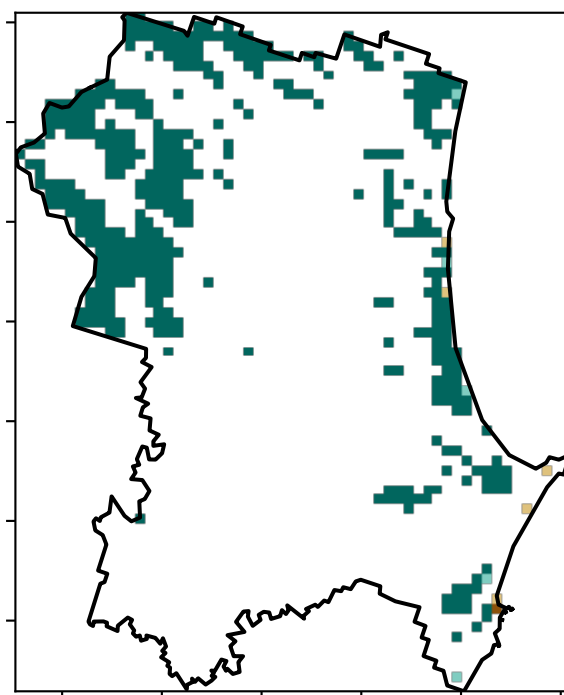
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
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of Australia (2018)

- 1 Conservation and natural environments - Non-forest
- 2 Conservation and natural environments - Woodland forest
- 3 Conservation and natural environments - Non-woodland forest

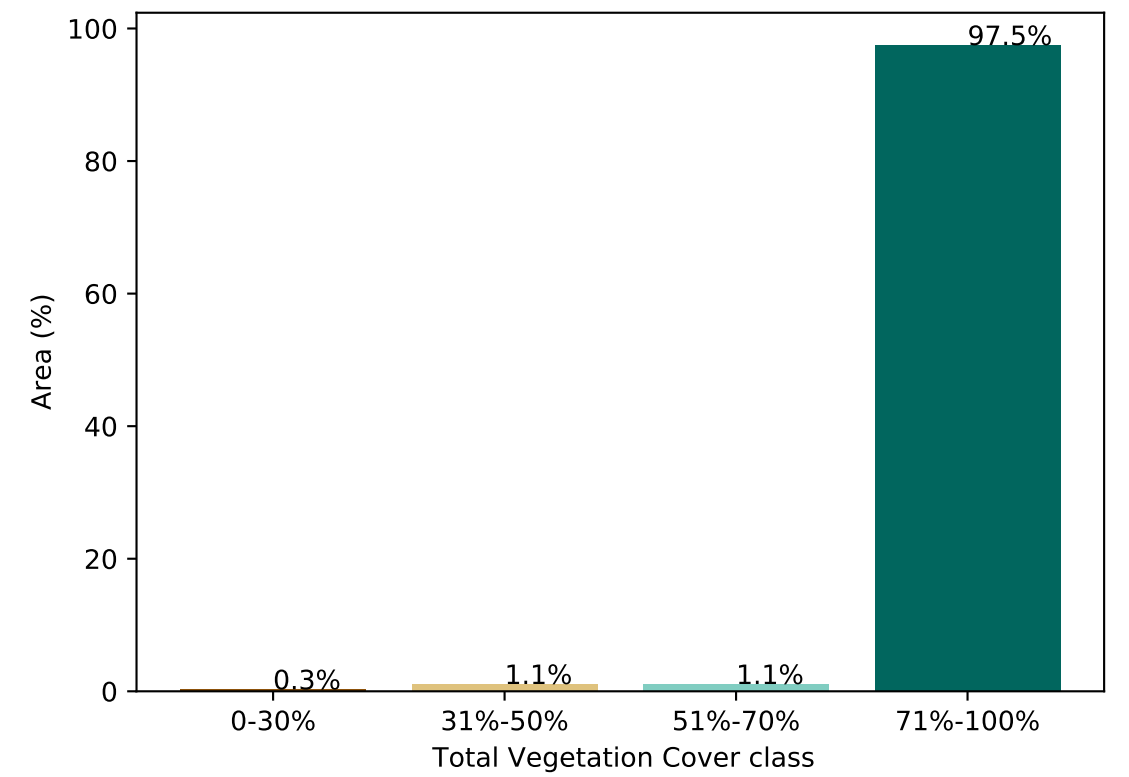
Proportion of each land class in area



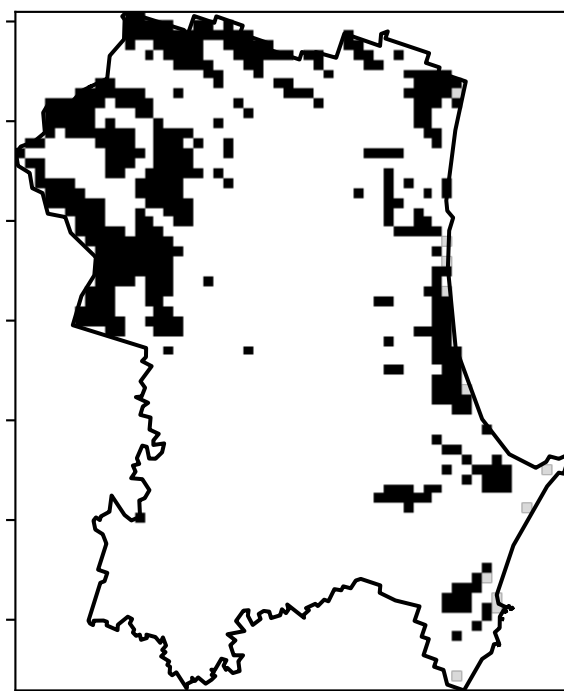
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

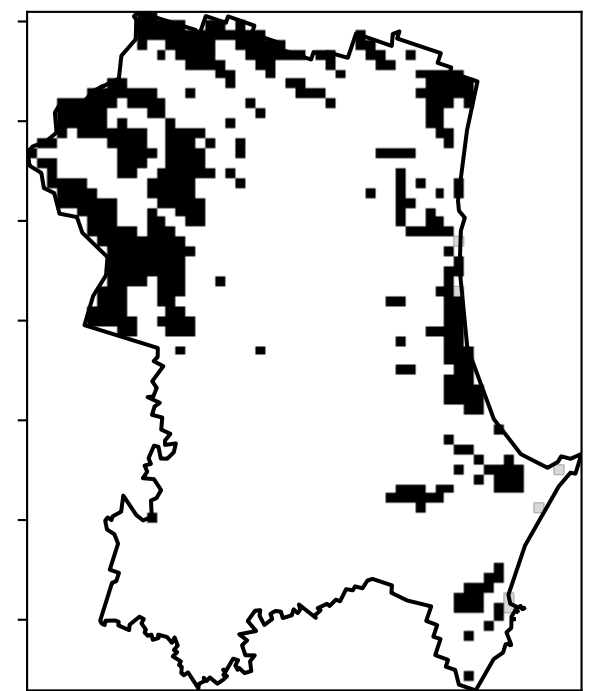


% Area protected from water erosion (>70%)



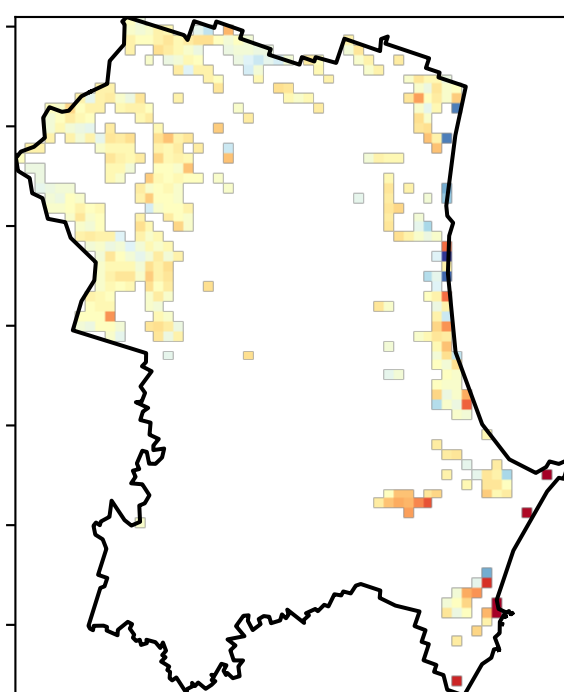
- Area not protected  
2.5% of region  
(276 ha)
- Area protected  
97.5% of region  
(10,798 ha)

% Area protected from wind erosion (>50%)



- Area not protected  
1.0% of region  
(110 ha)
- Area protected  
99.0% of region  
(10,964 ha)

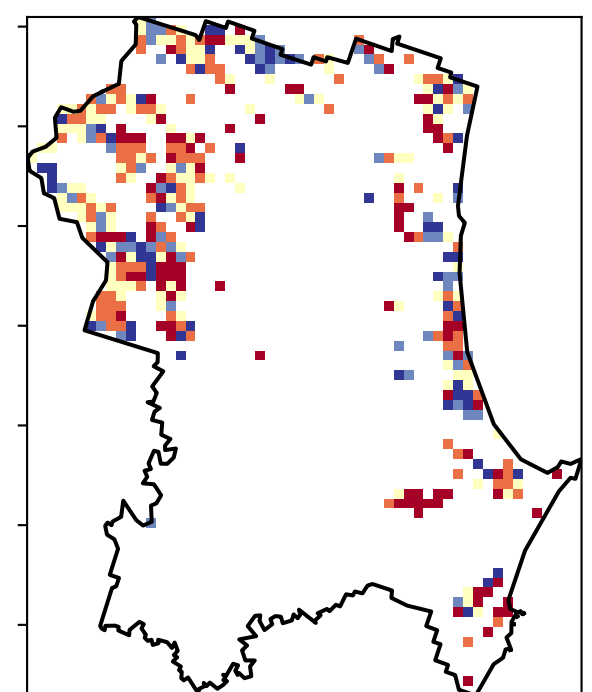
Total Vegetation Cover Anomaly [%]



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Total Vegetation Cover Decile [%]



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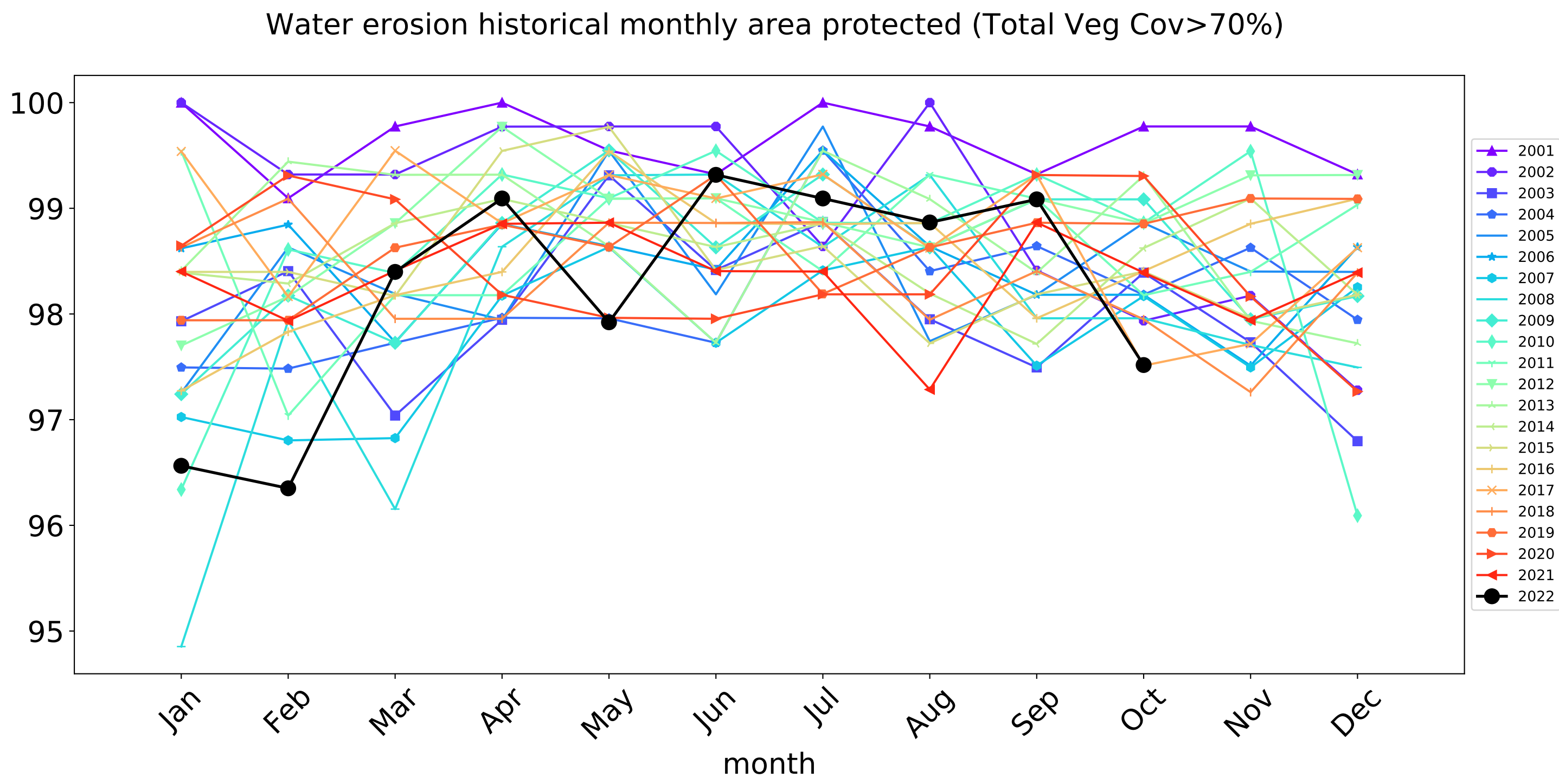
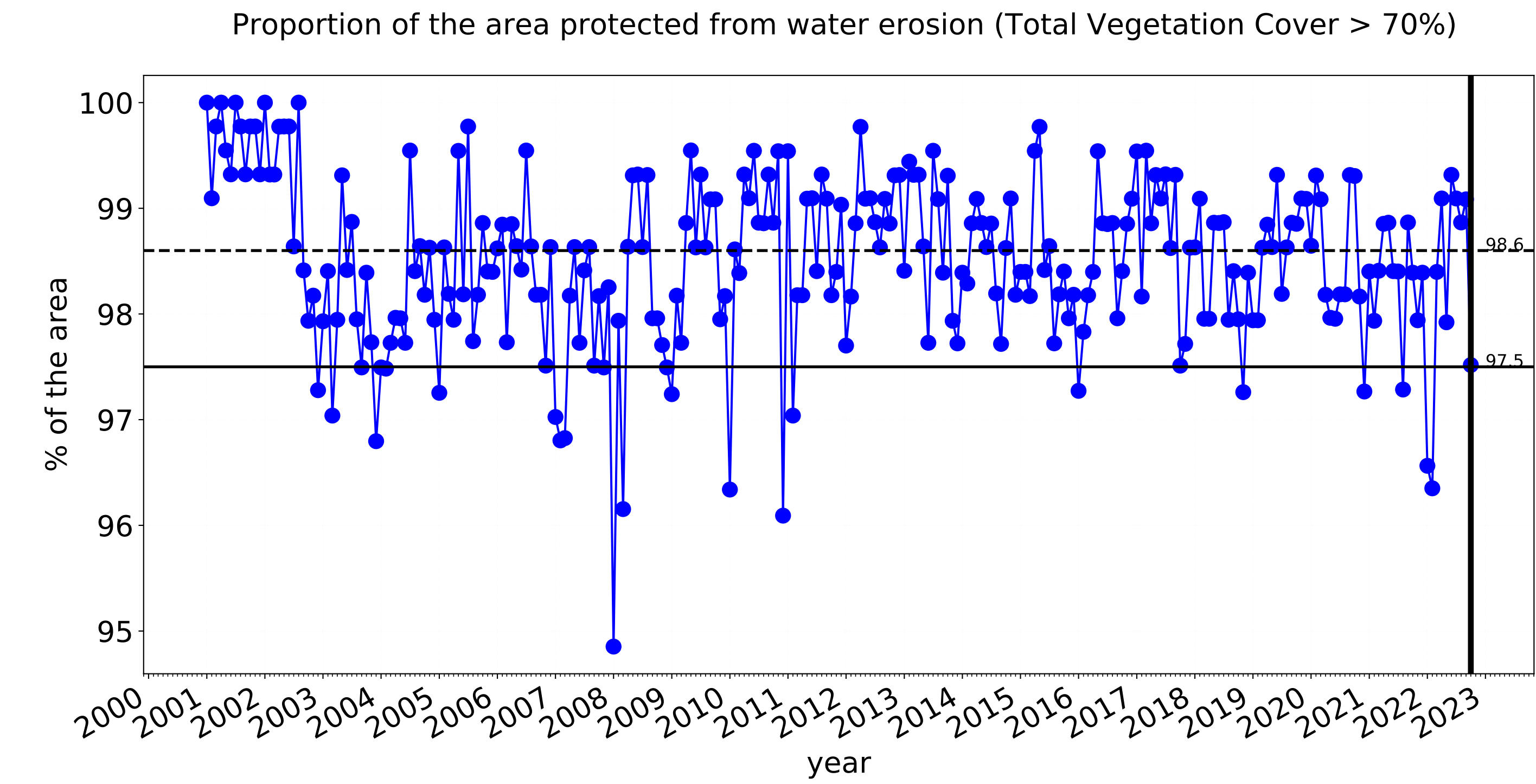
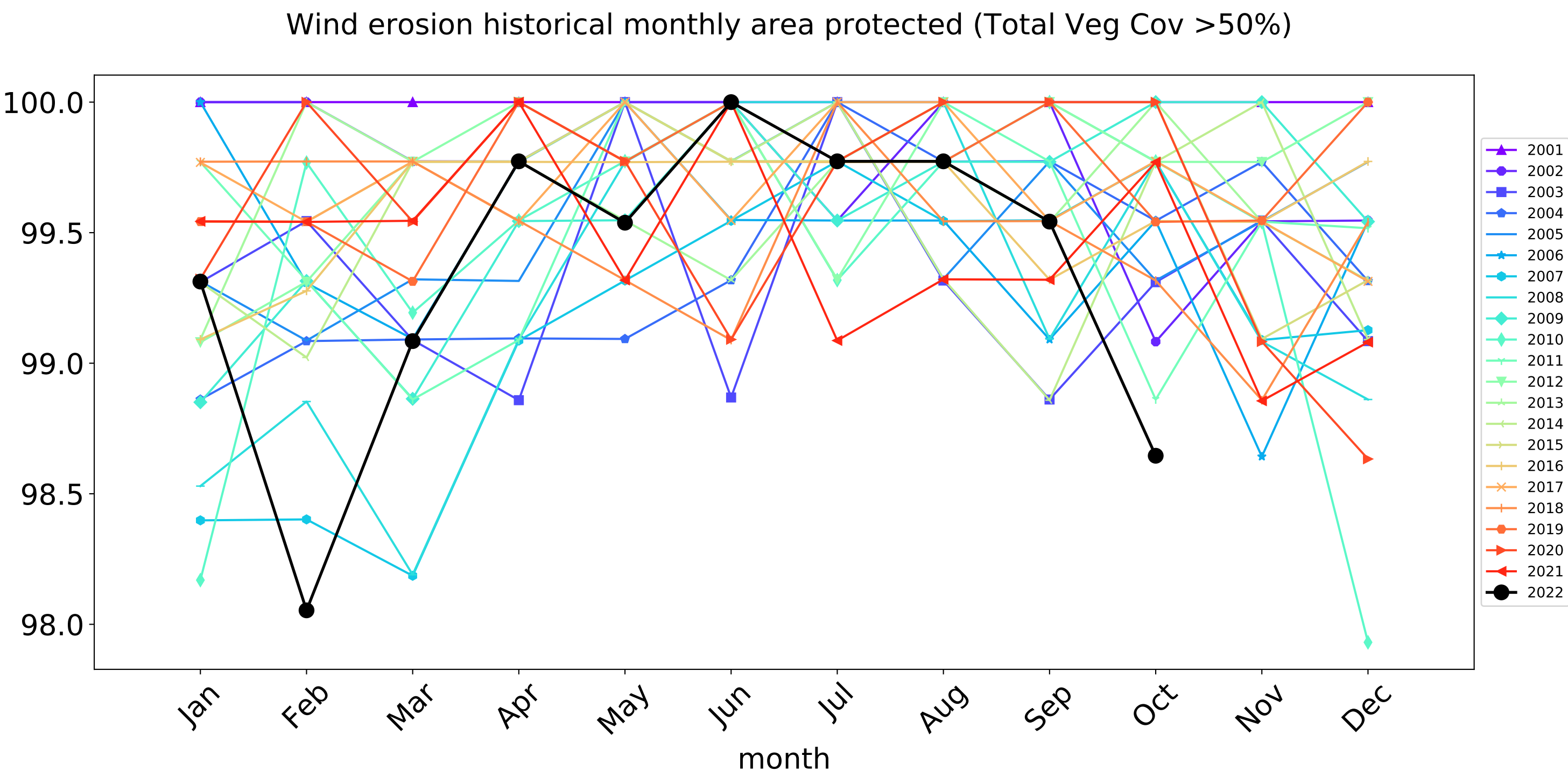
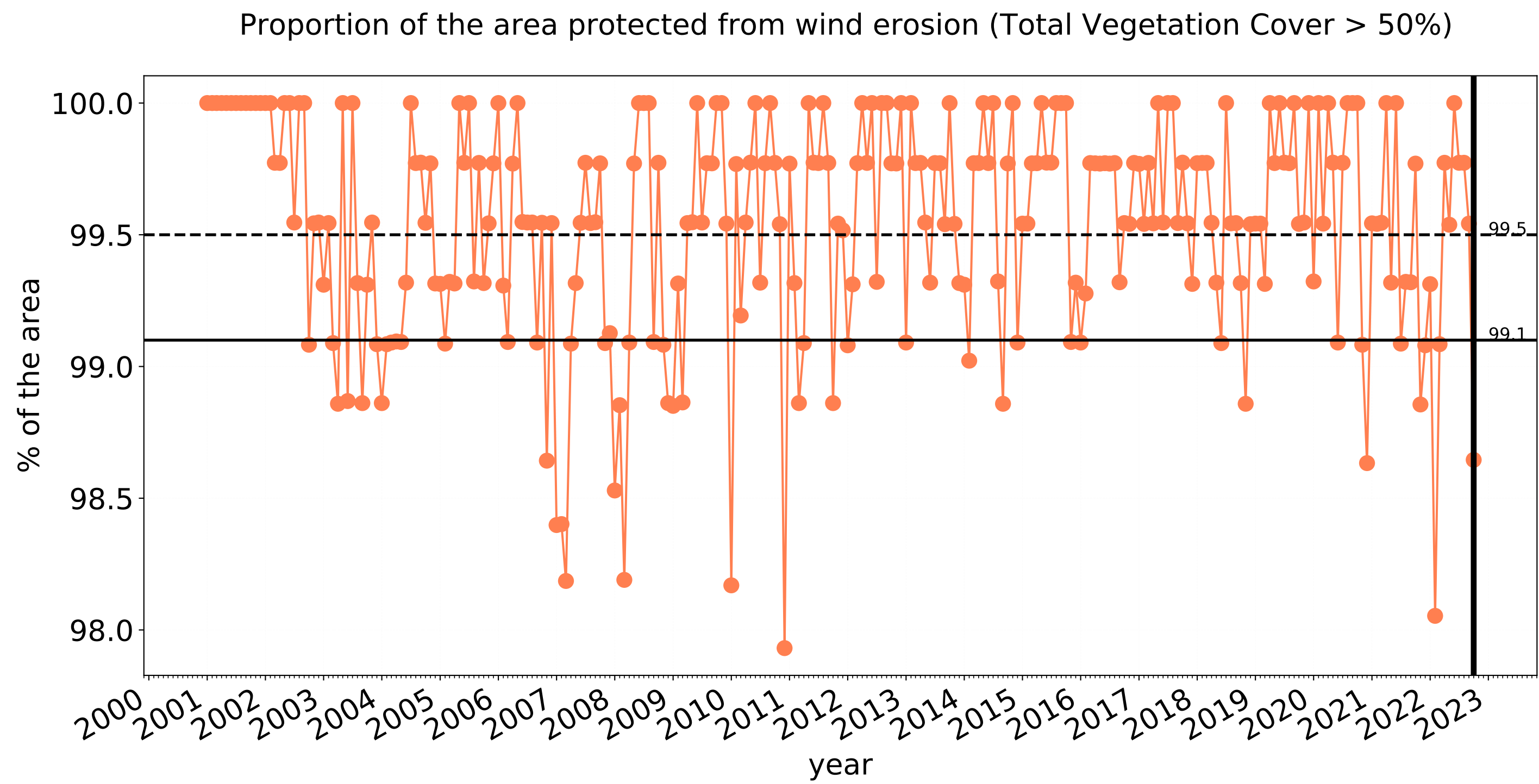


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Conservation and natural environments timeseries



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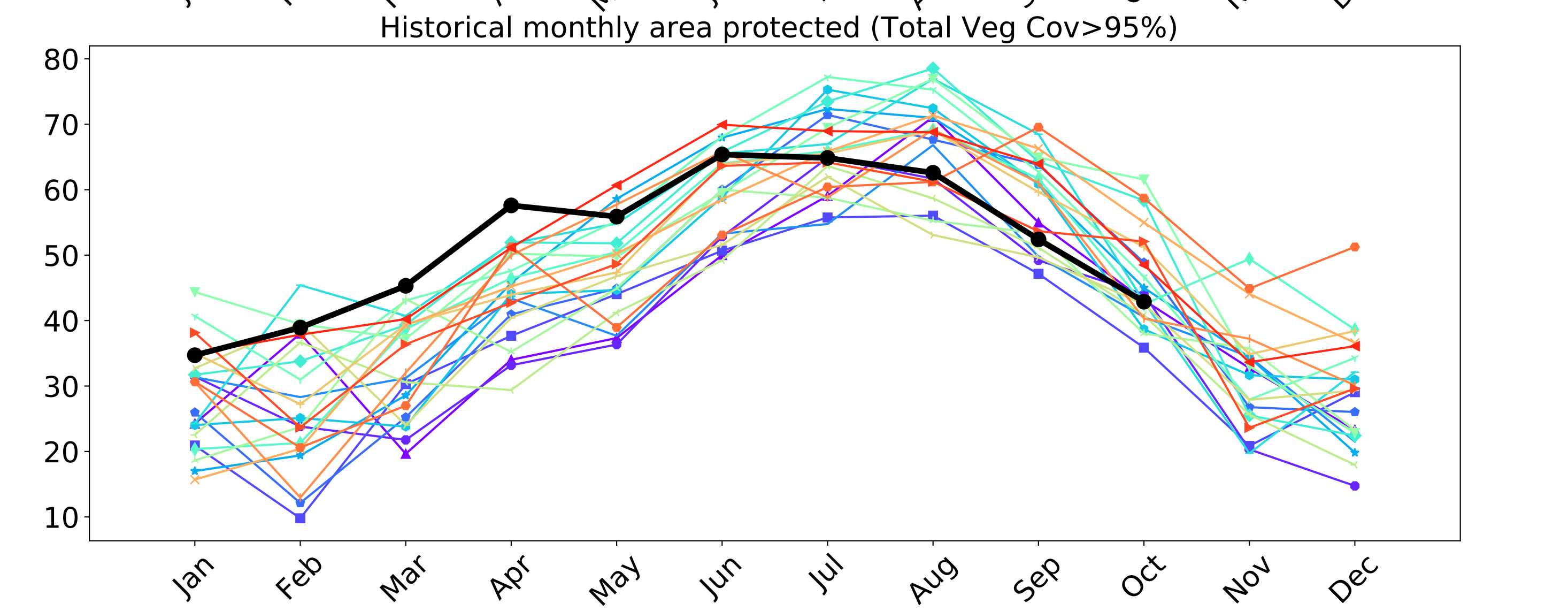
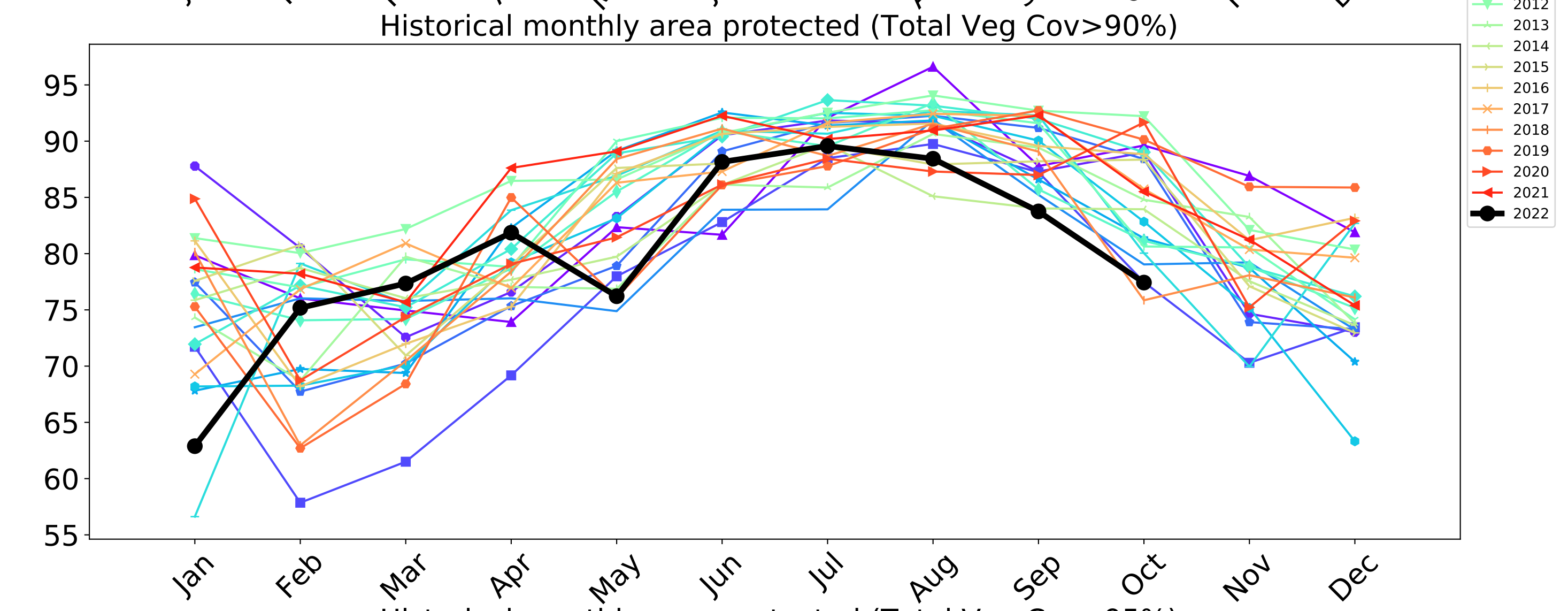
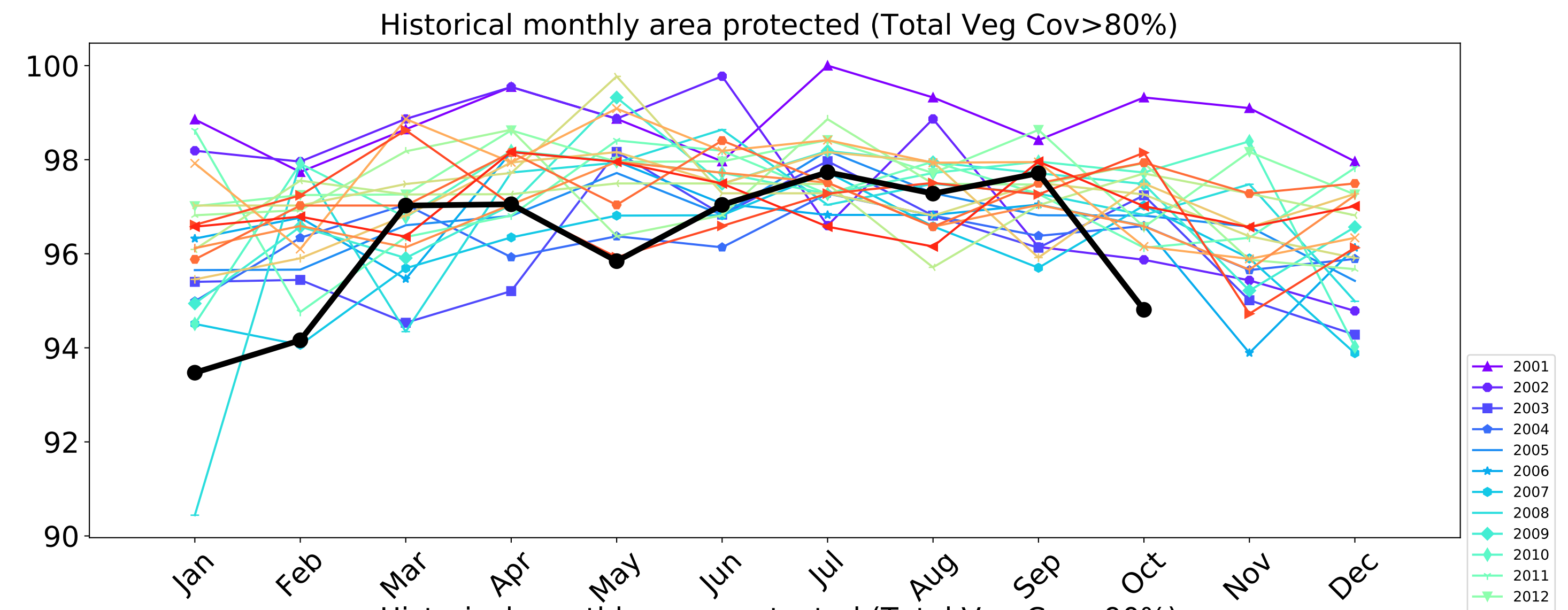
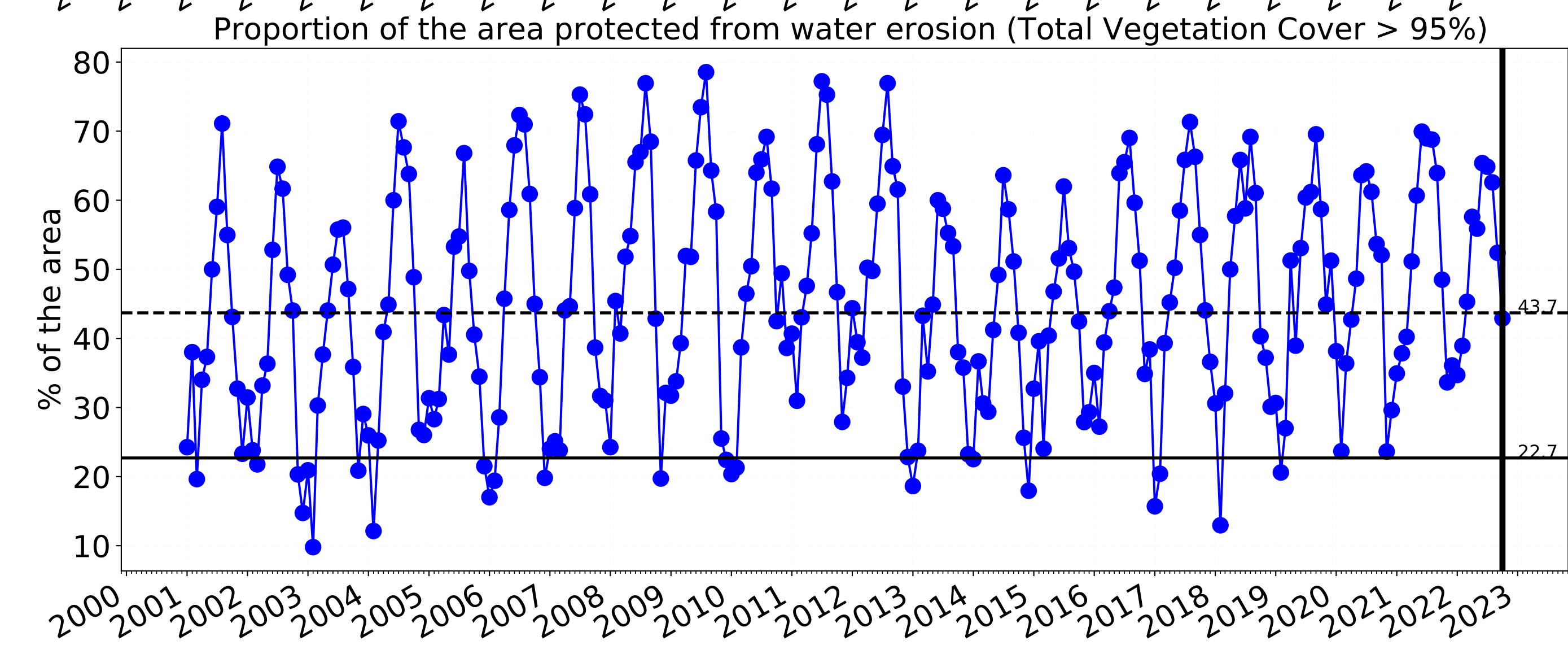
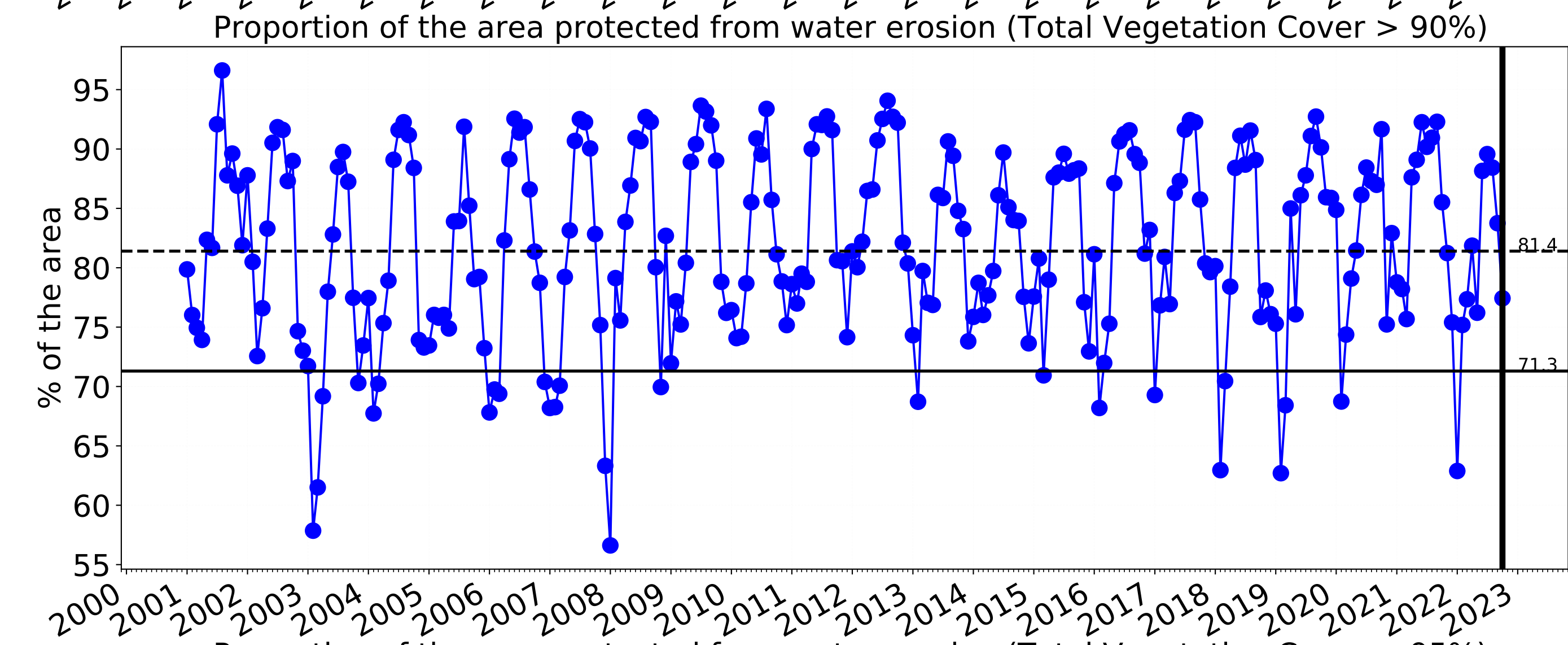
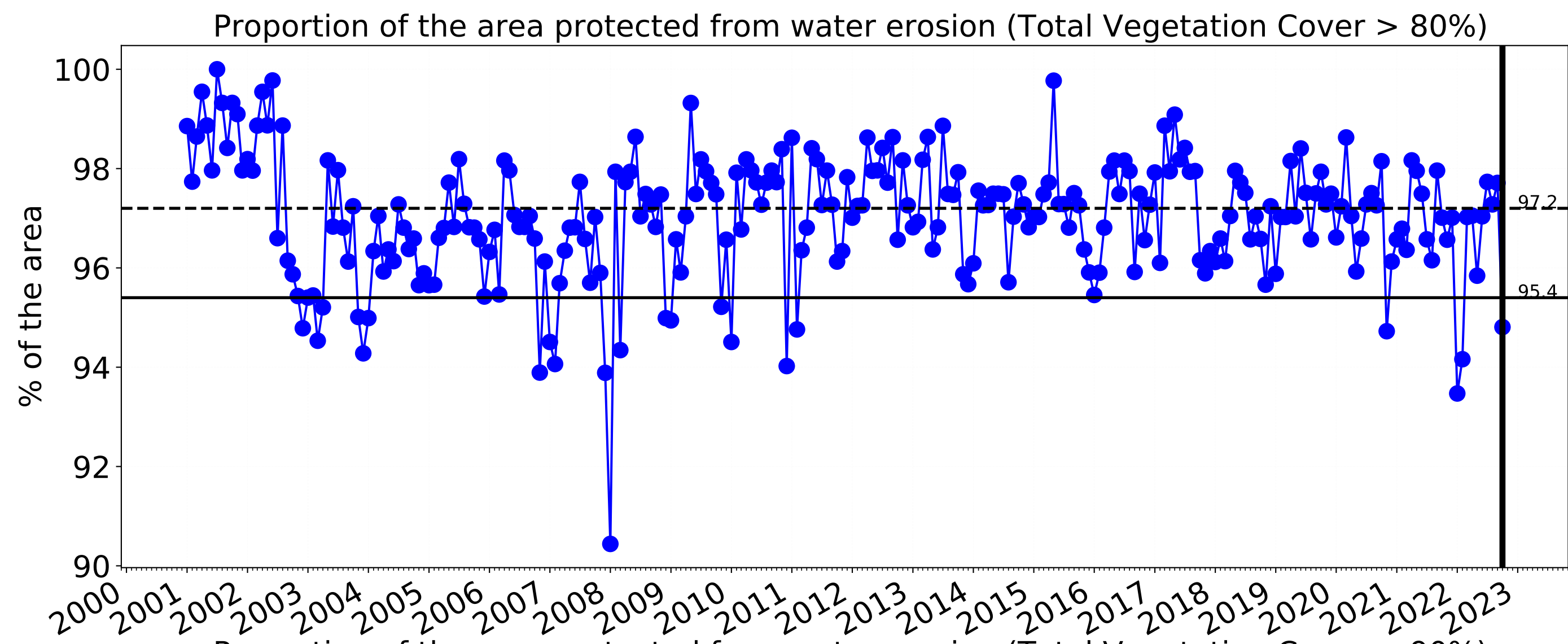
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GOVERNMENT

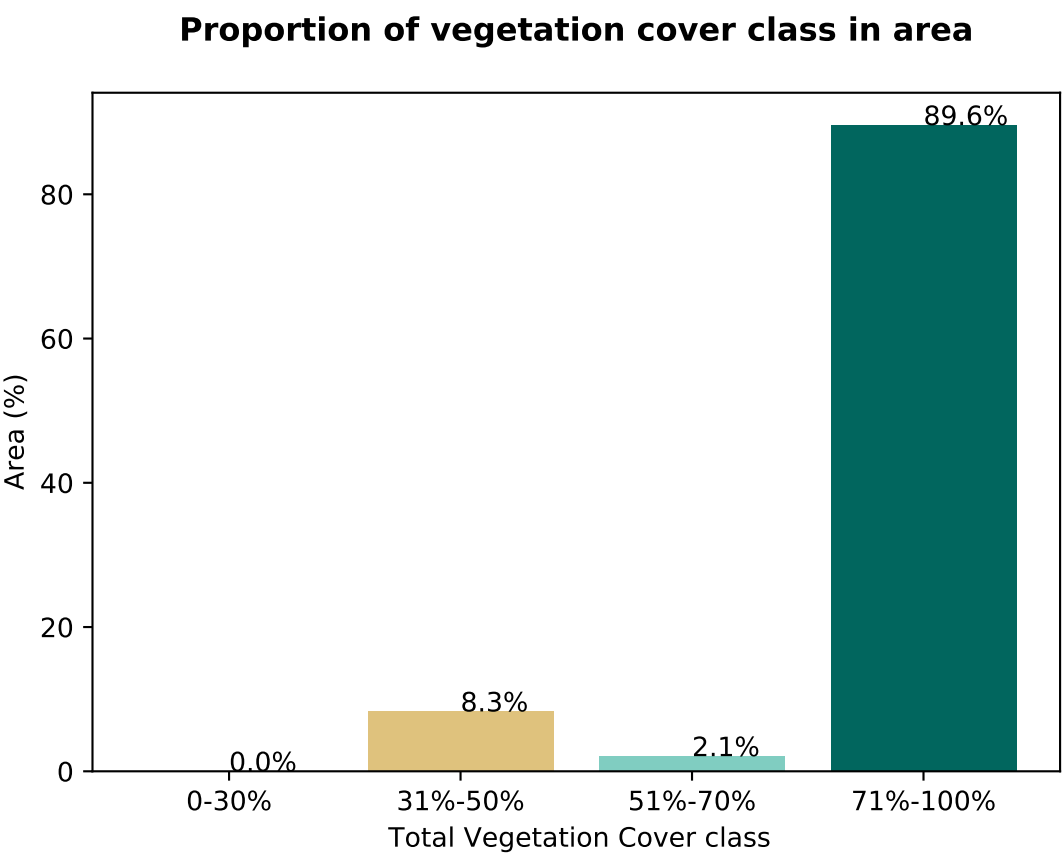
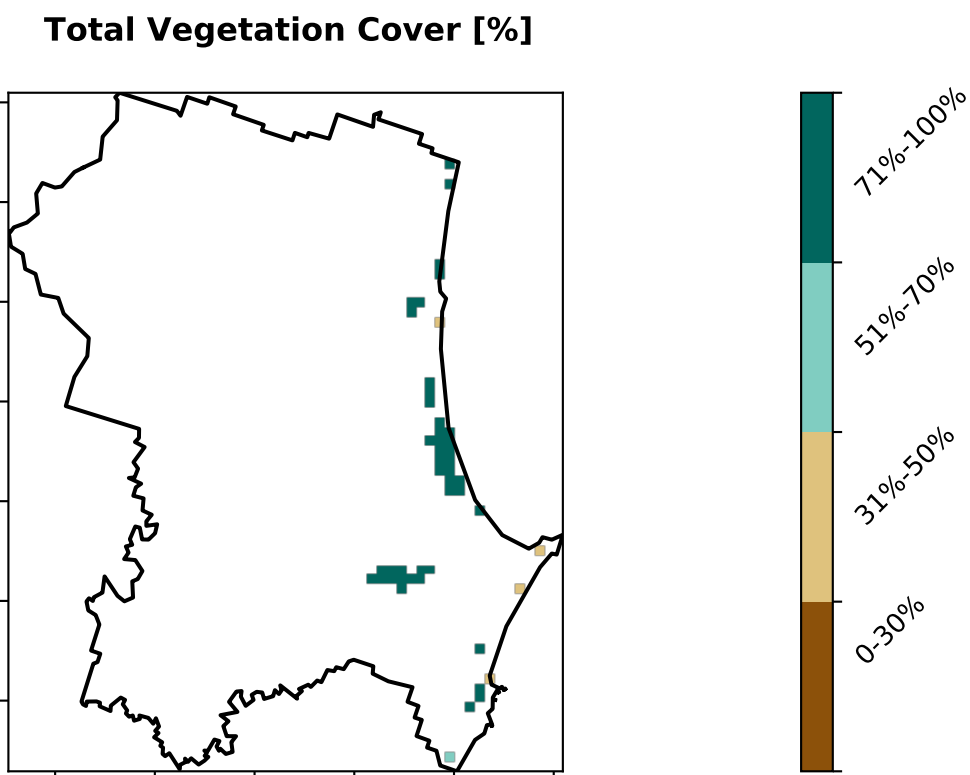
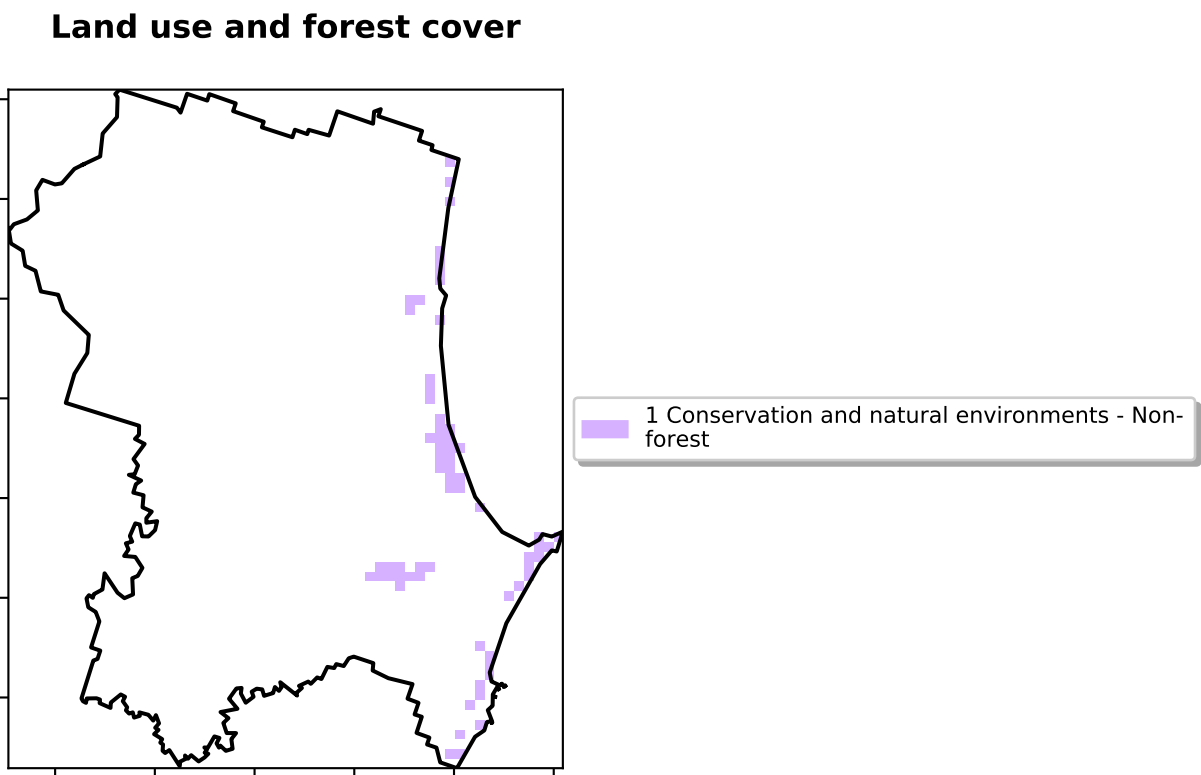




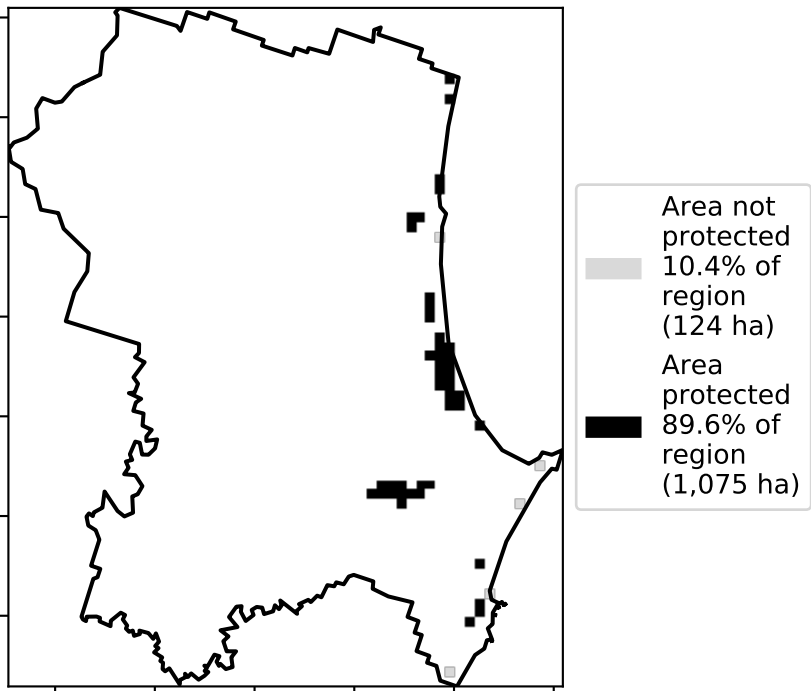


# Conservation and natural environments non forest

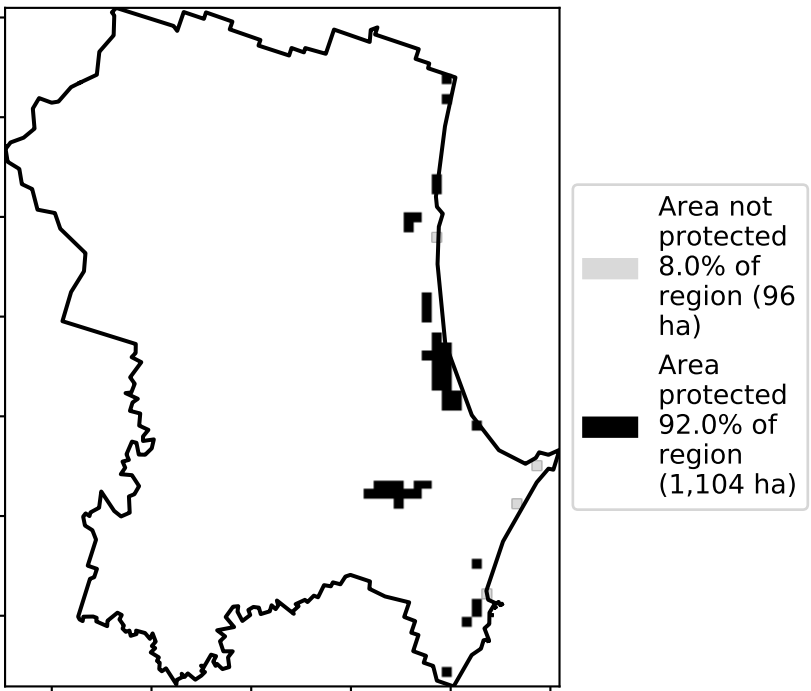
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



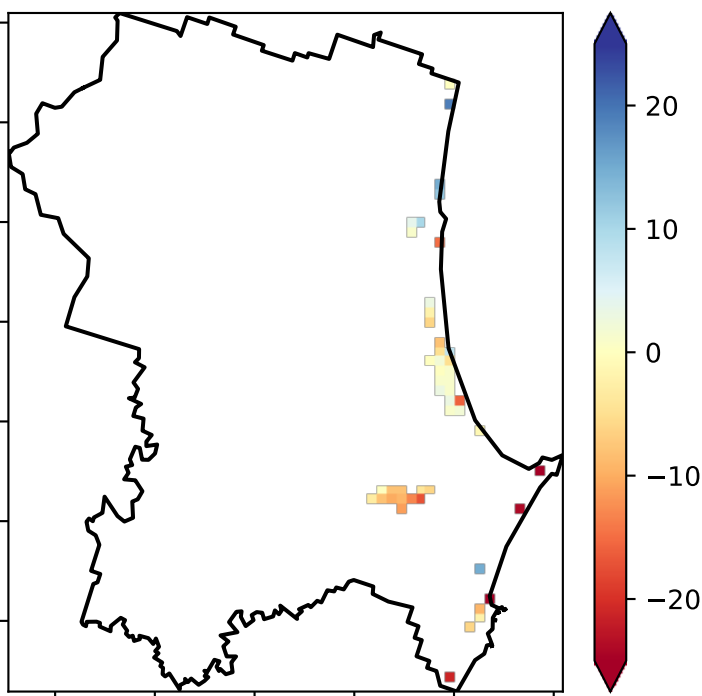
**% Area protected from water erosion (>70%)**



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



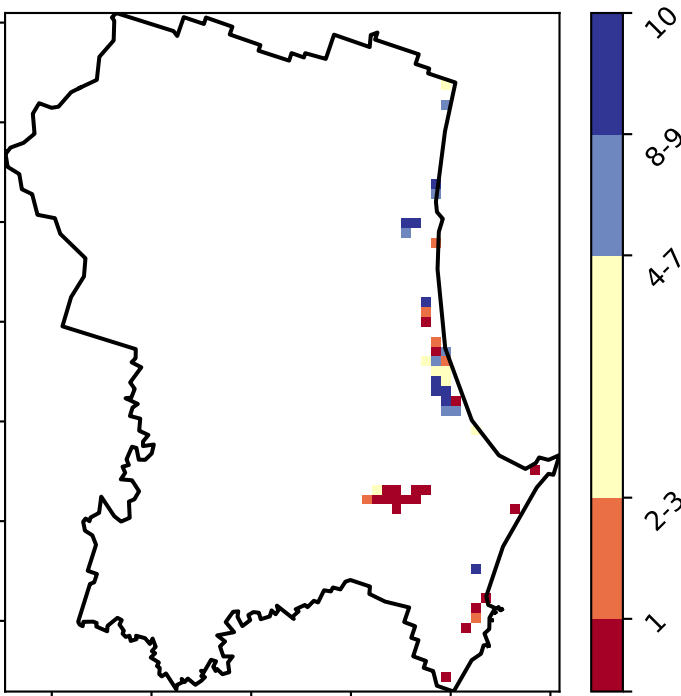
**Total Vegetation Cover Anomaly [%]**



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**Total Vegetation Cover Decile [%]**



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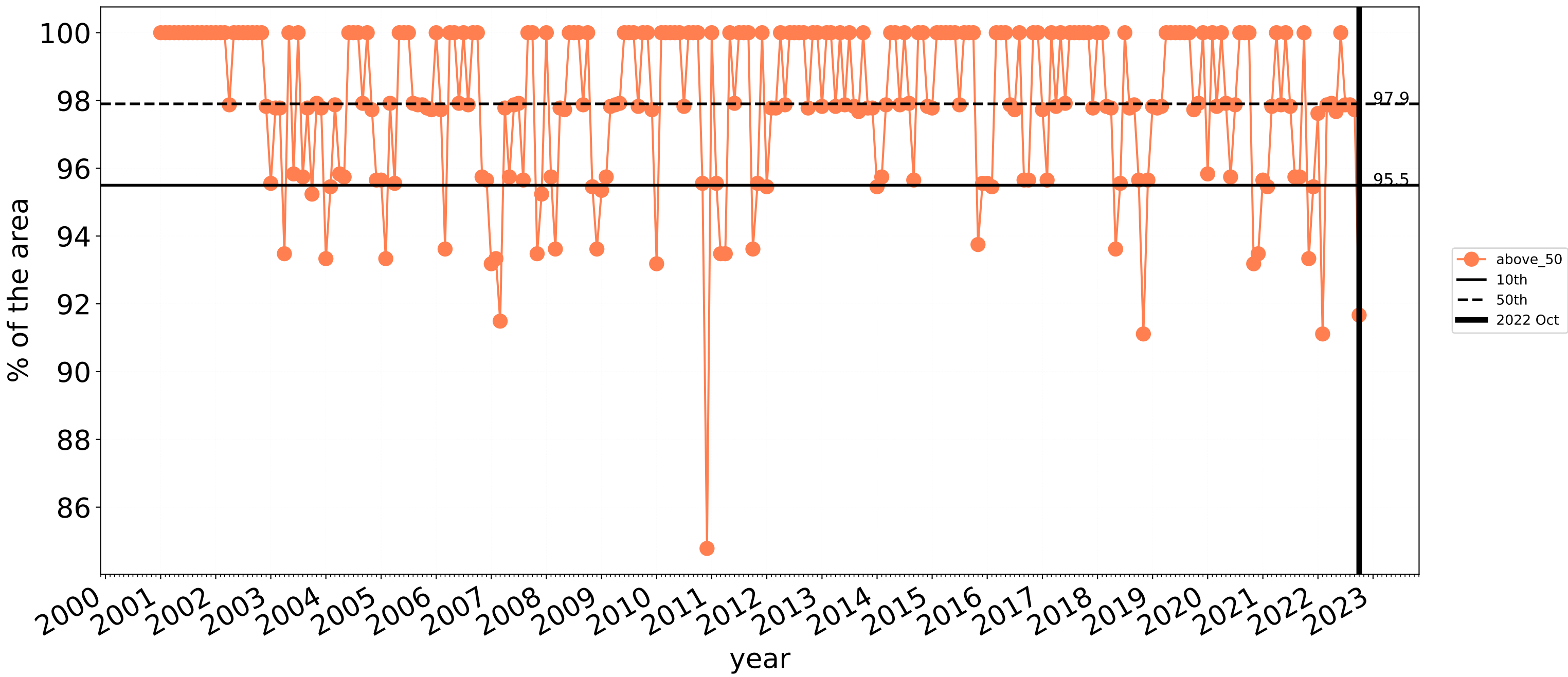
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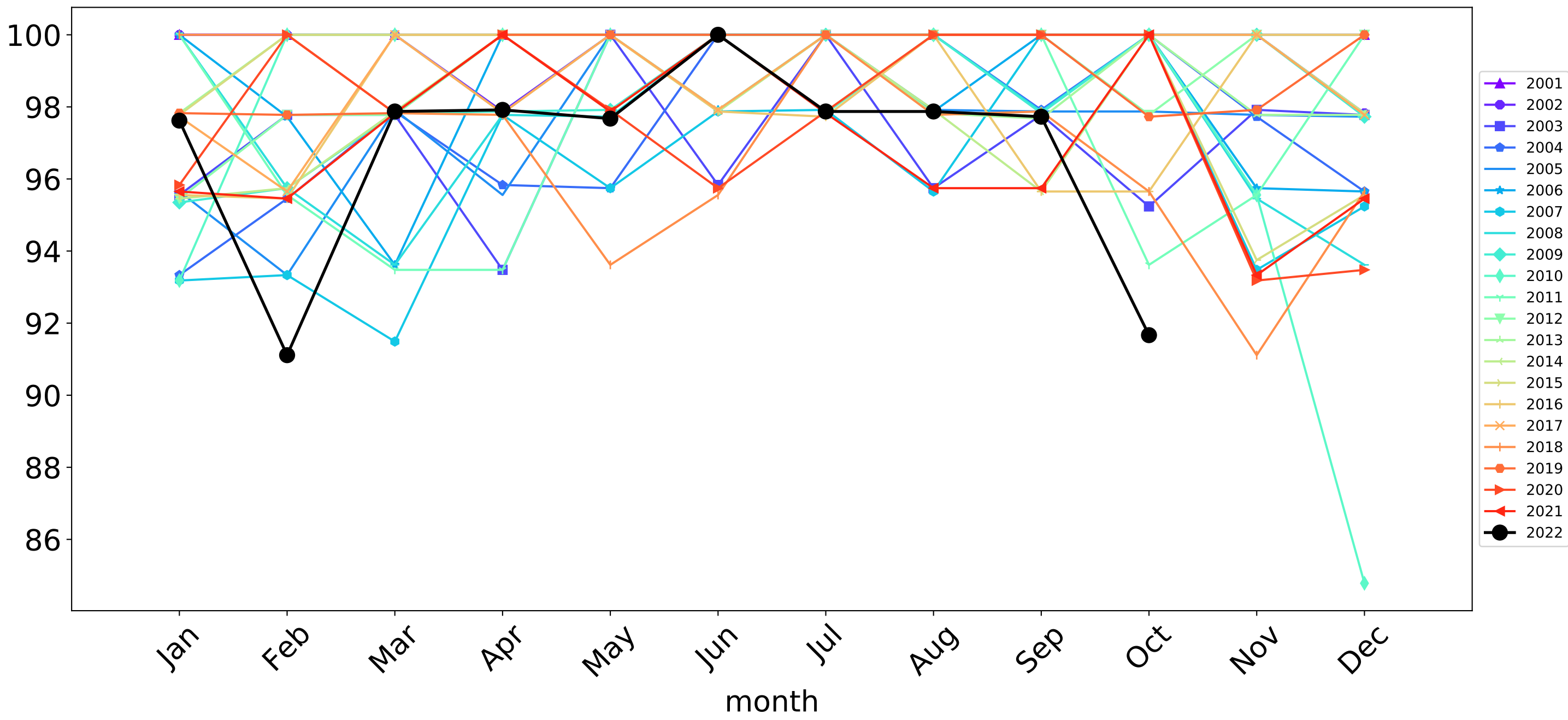


Conservation and natural environments non forest timeseries

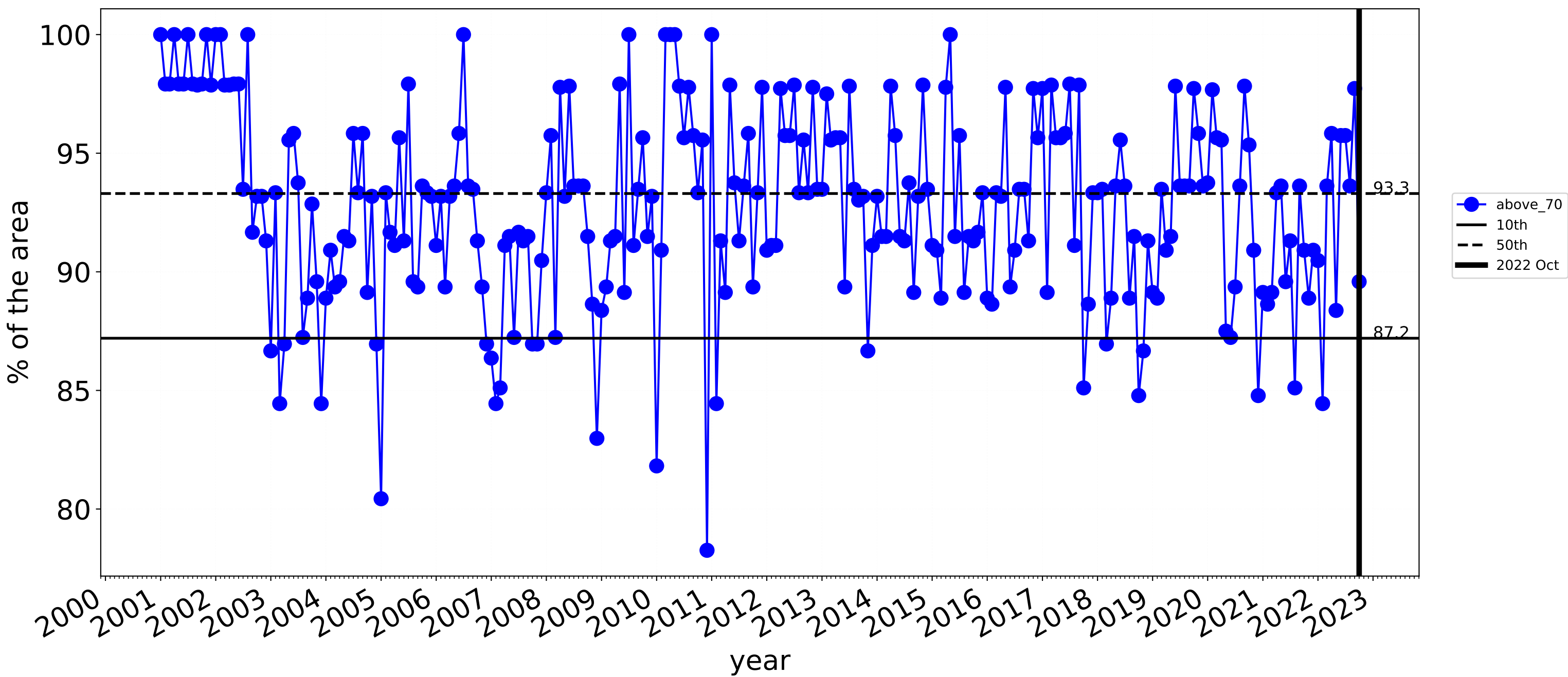
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



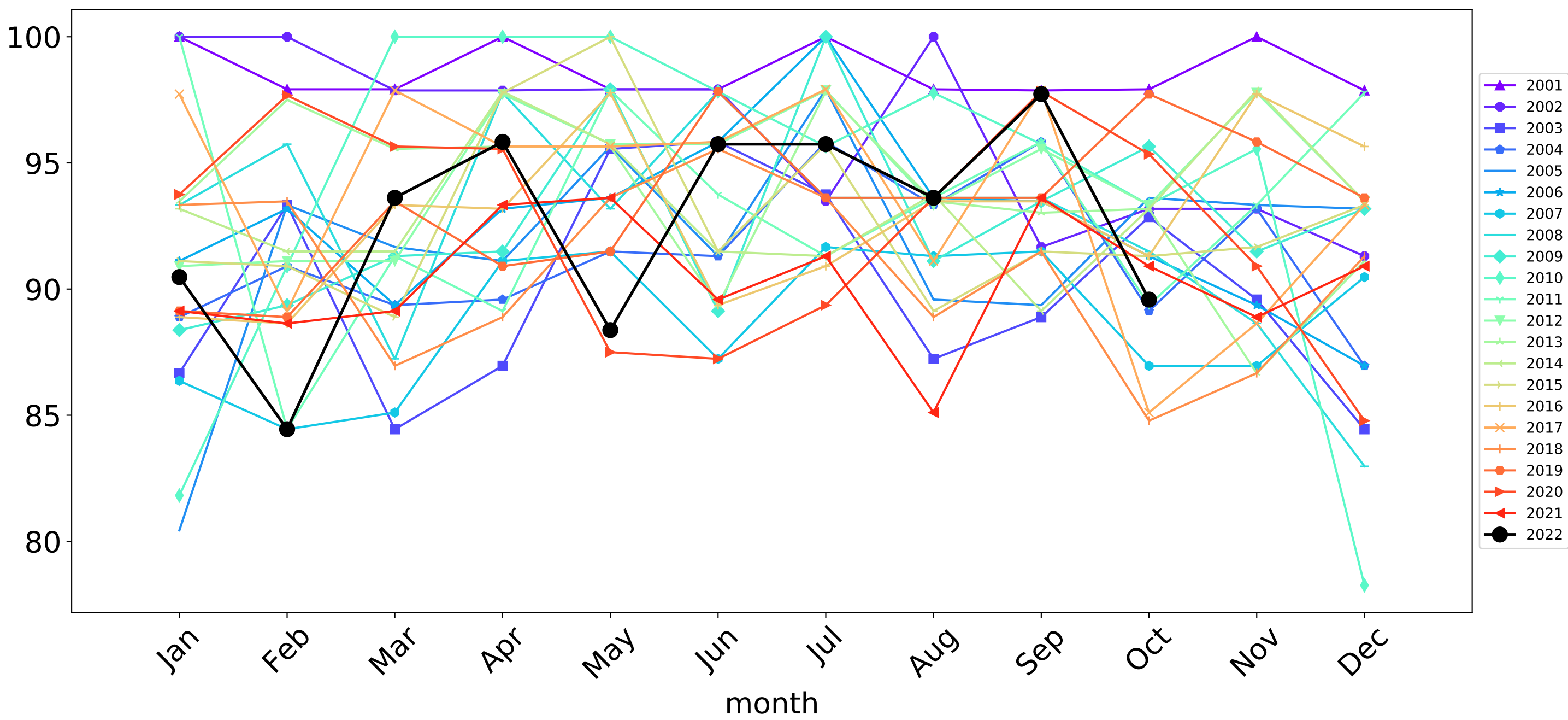
Wind erosion historical monthly area protected (Total Veg Cov >50%)



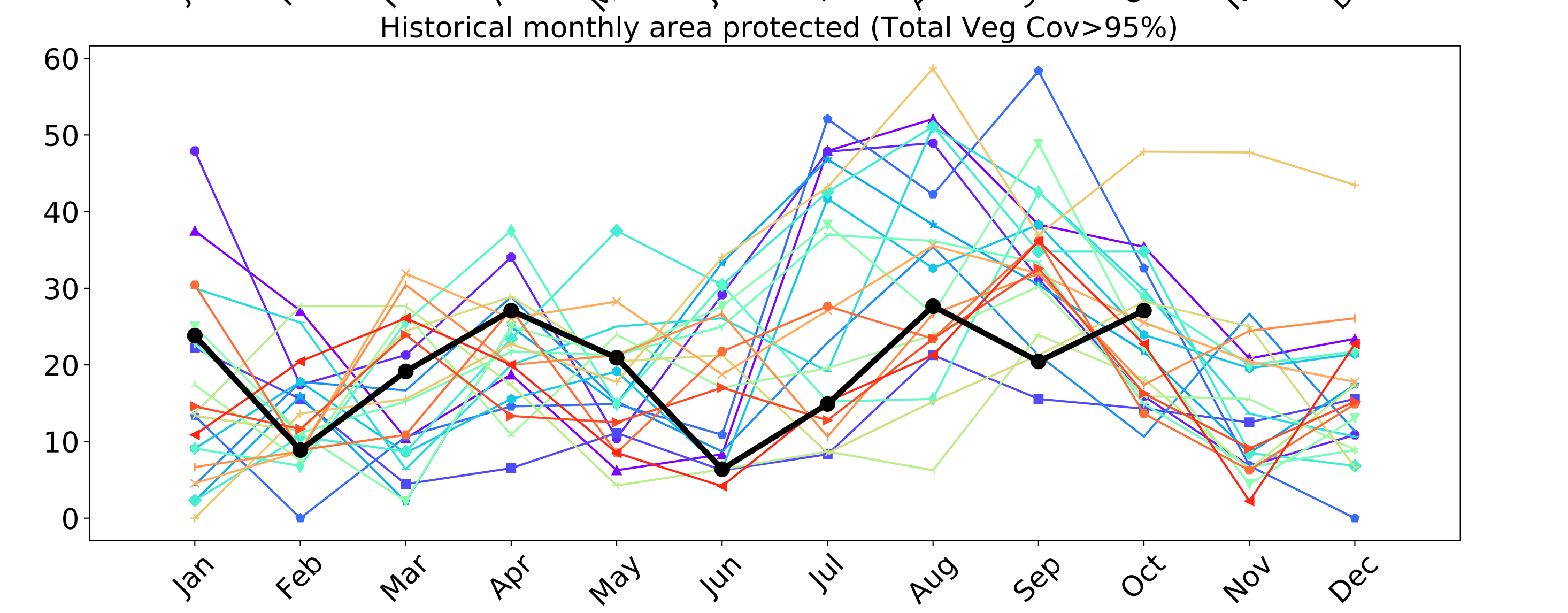
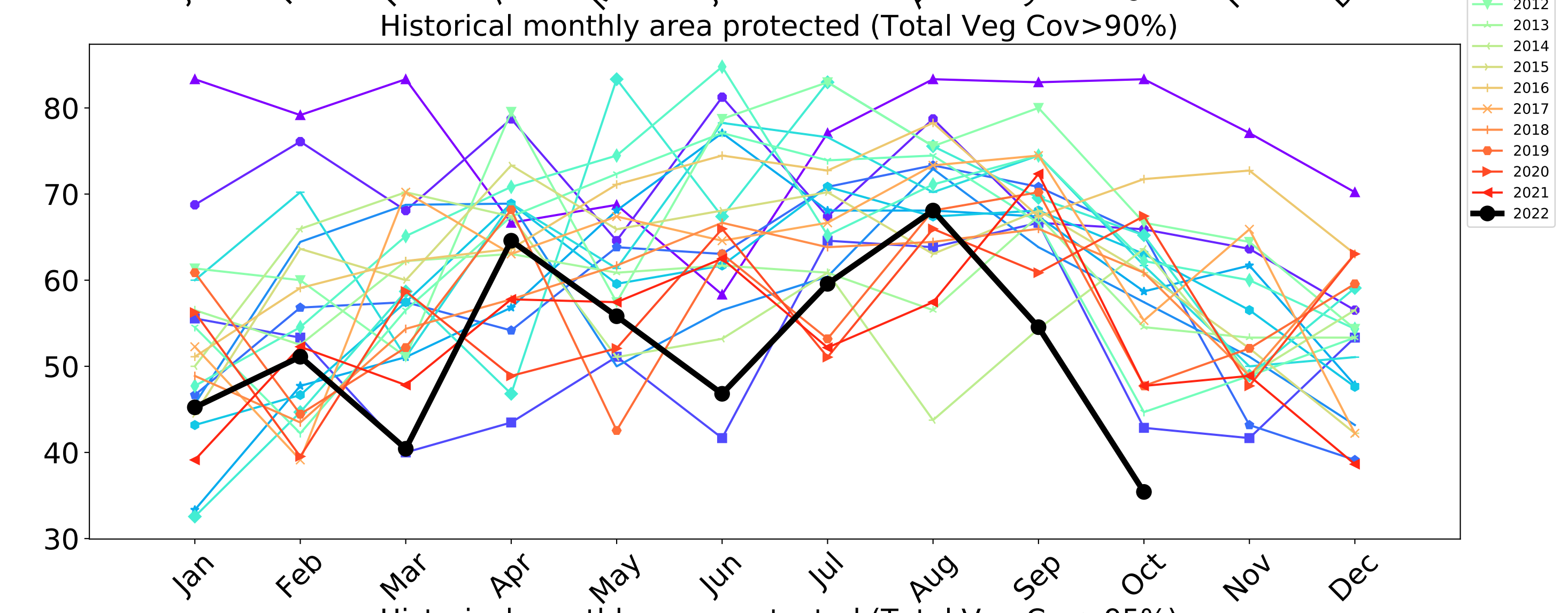
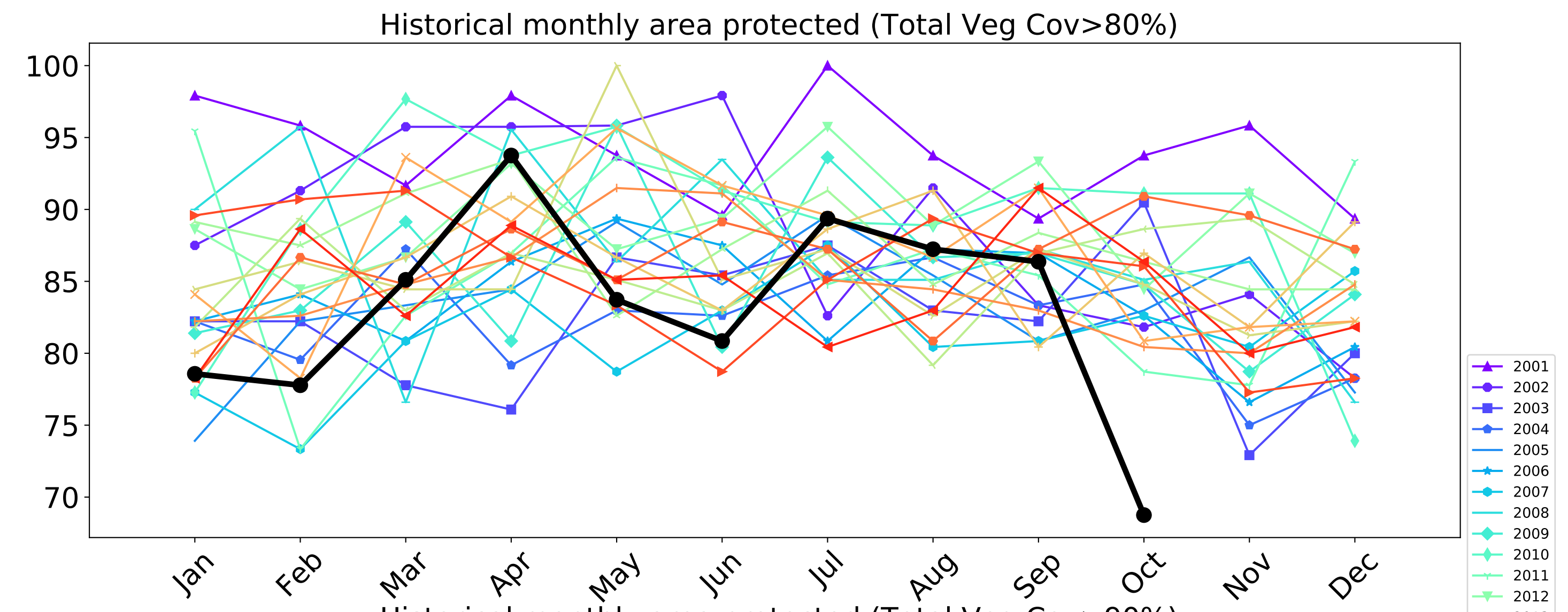
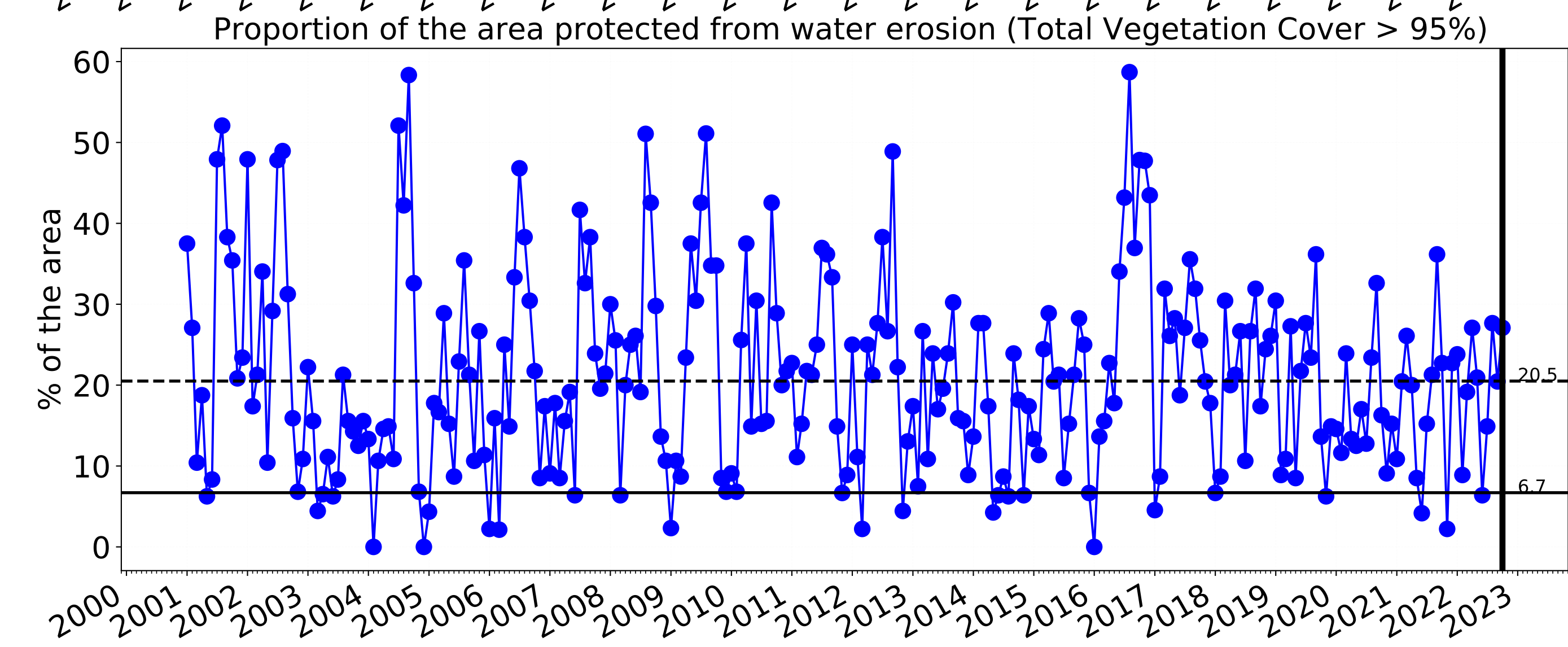
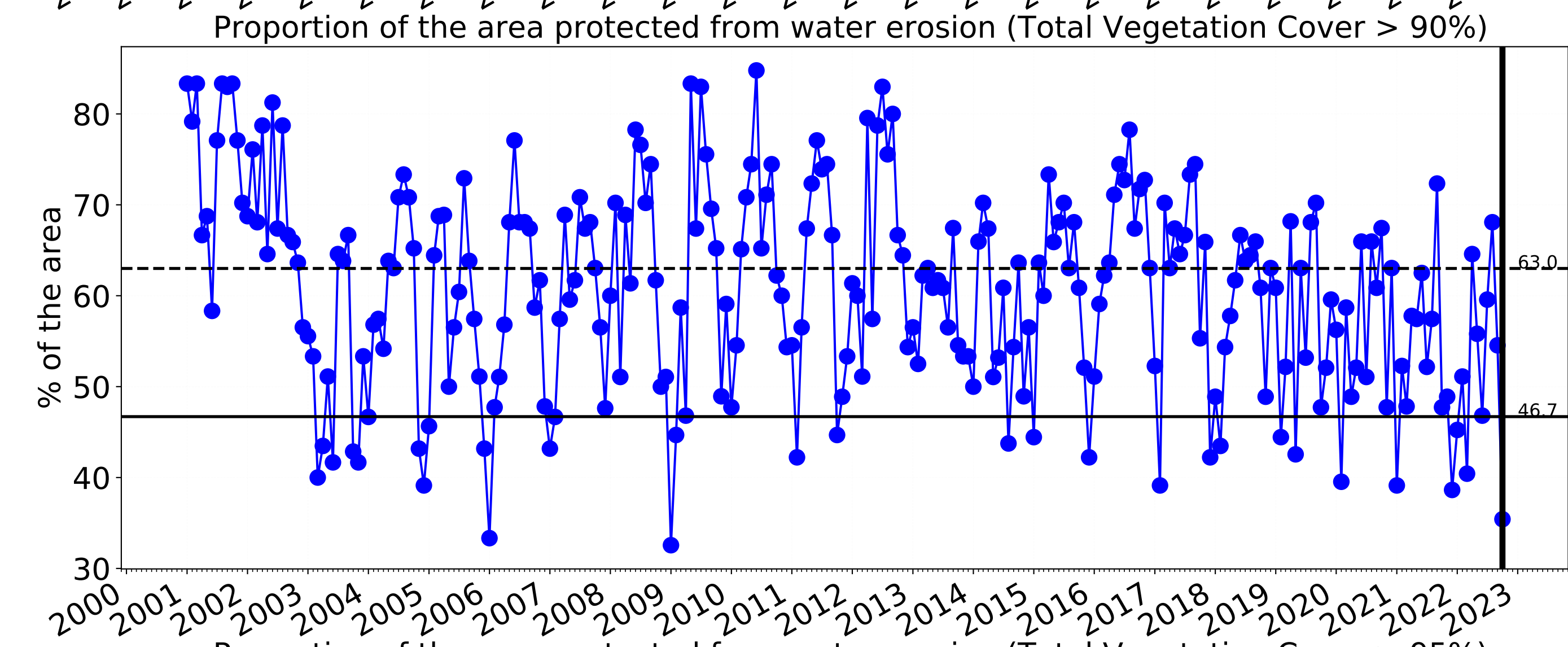
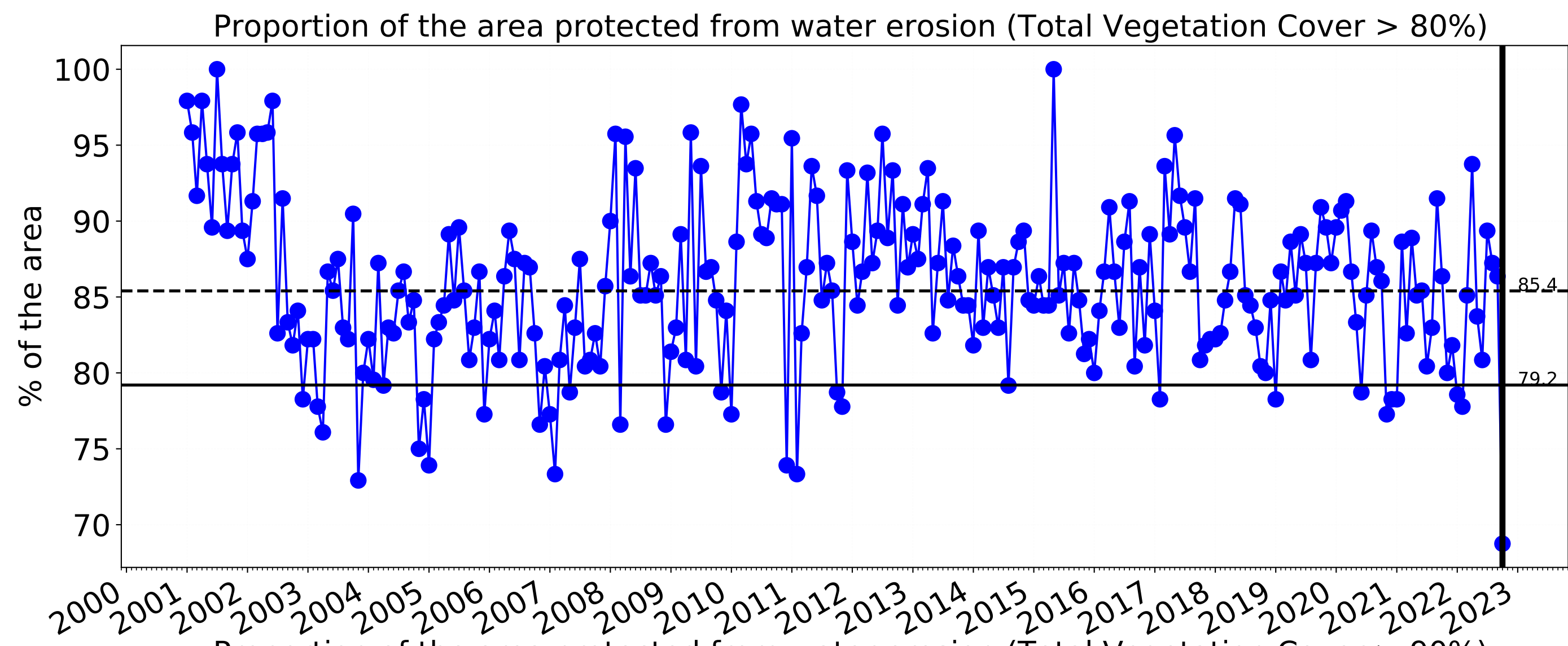
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



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



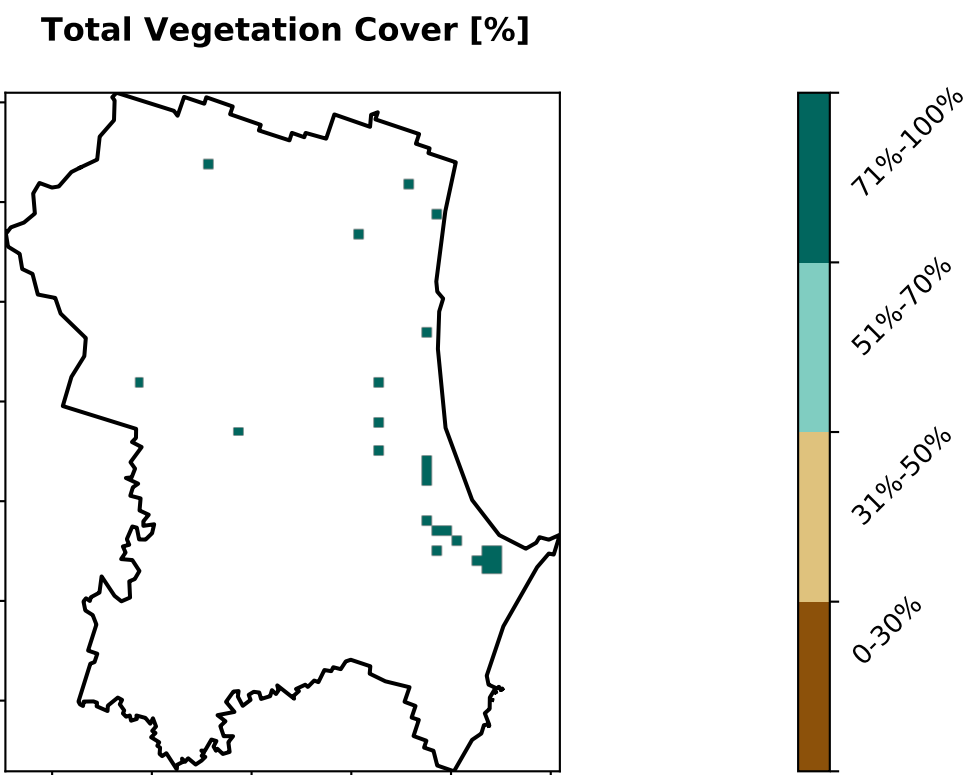
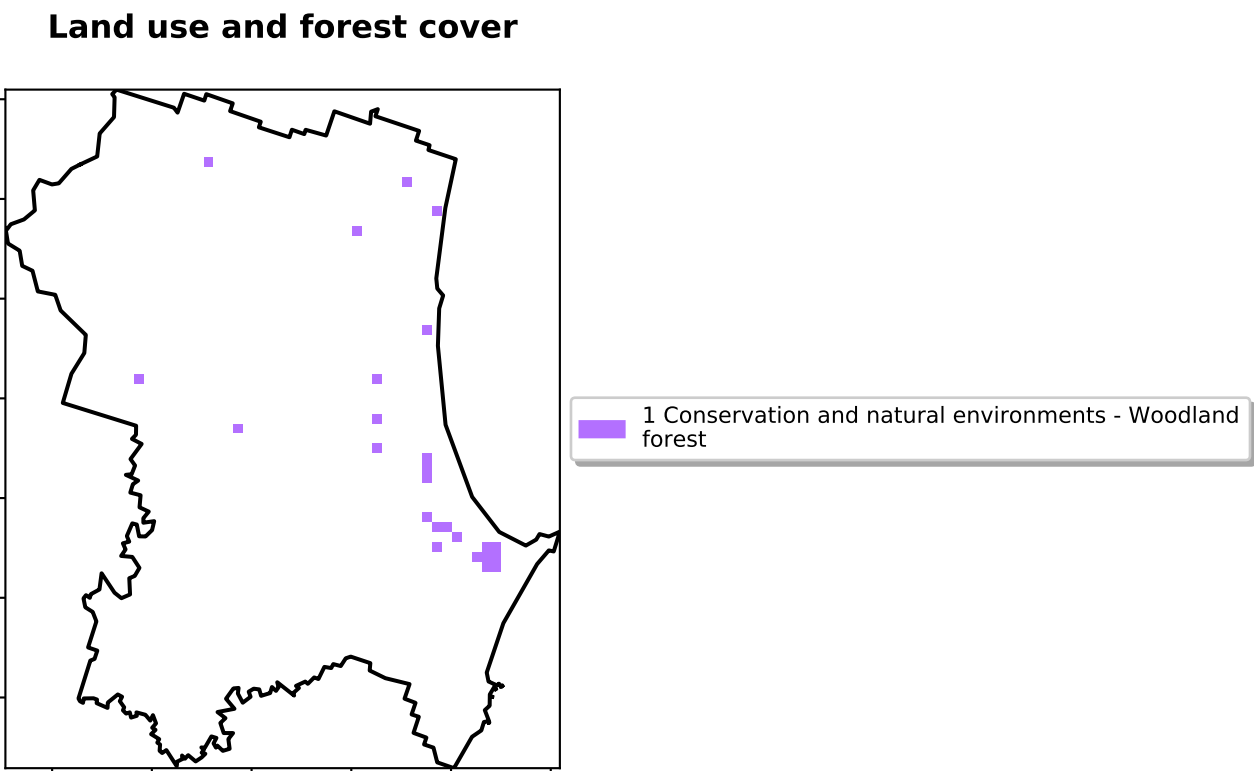




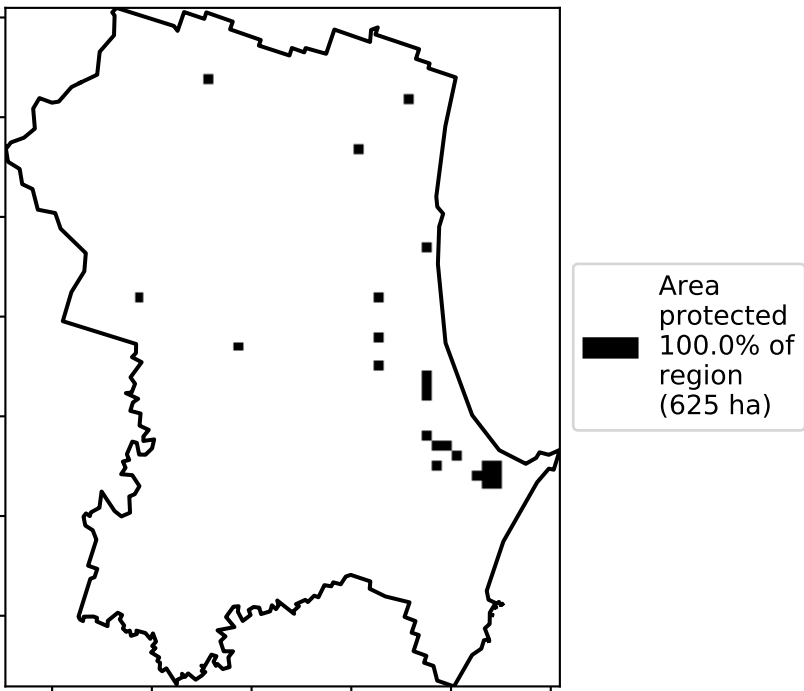


Conservation and natural environments Woodland forest

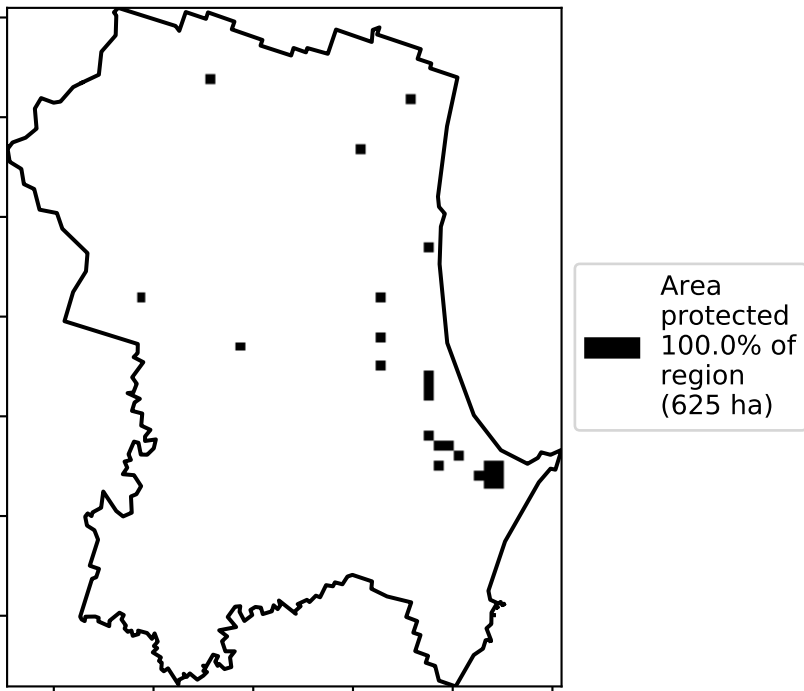
Catchment Scale  
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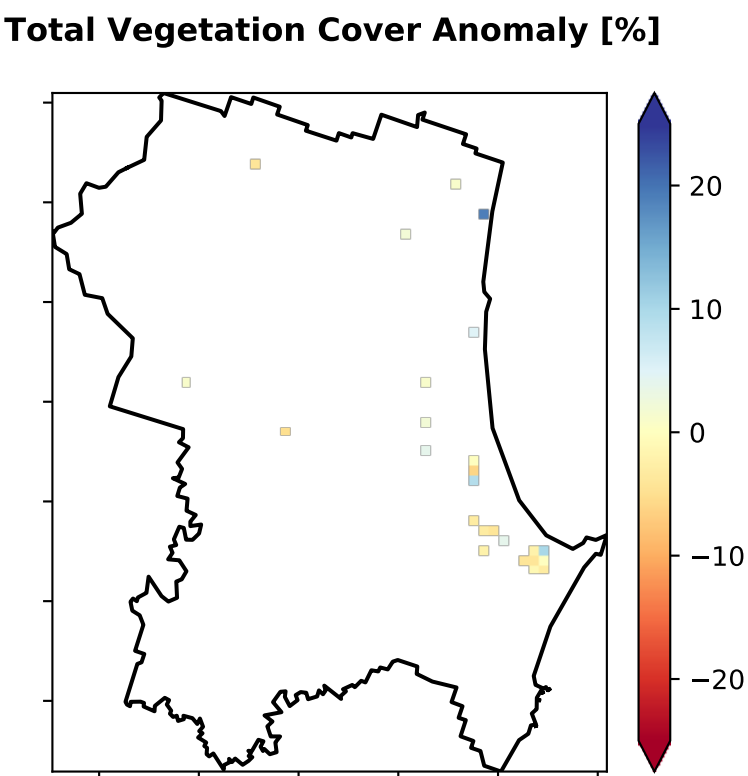
% Area protected from water erosion (>70%)



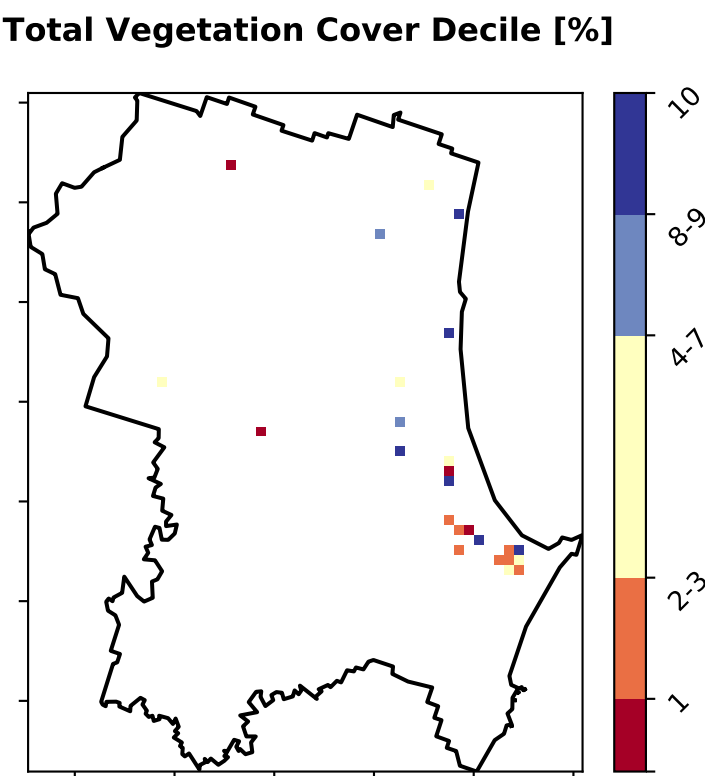
% Area protected from wind erosion (>50%)



Anomaly show how  
many percentage  
points each  
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Deciles show where the  
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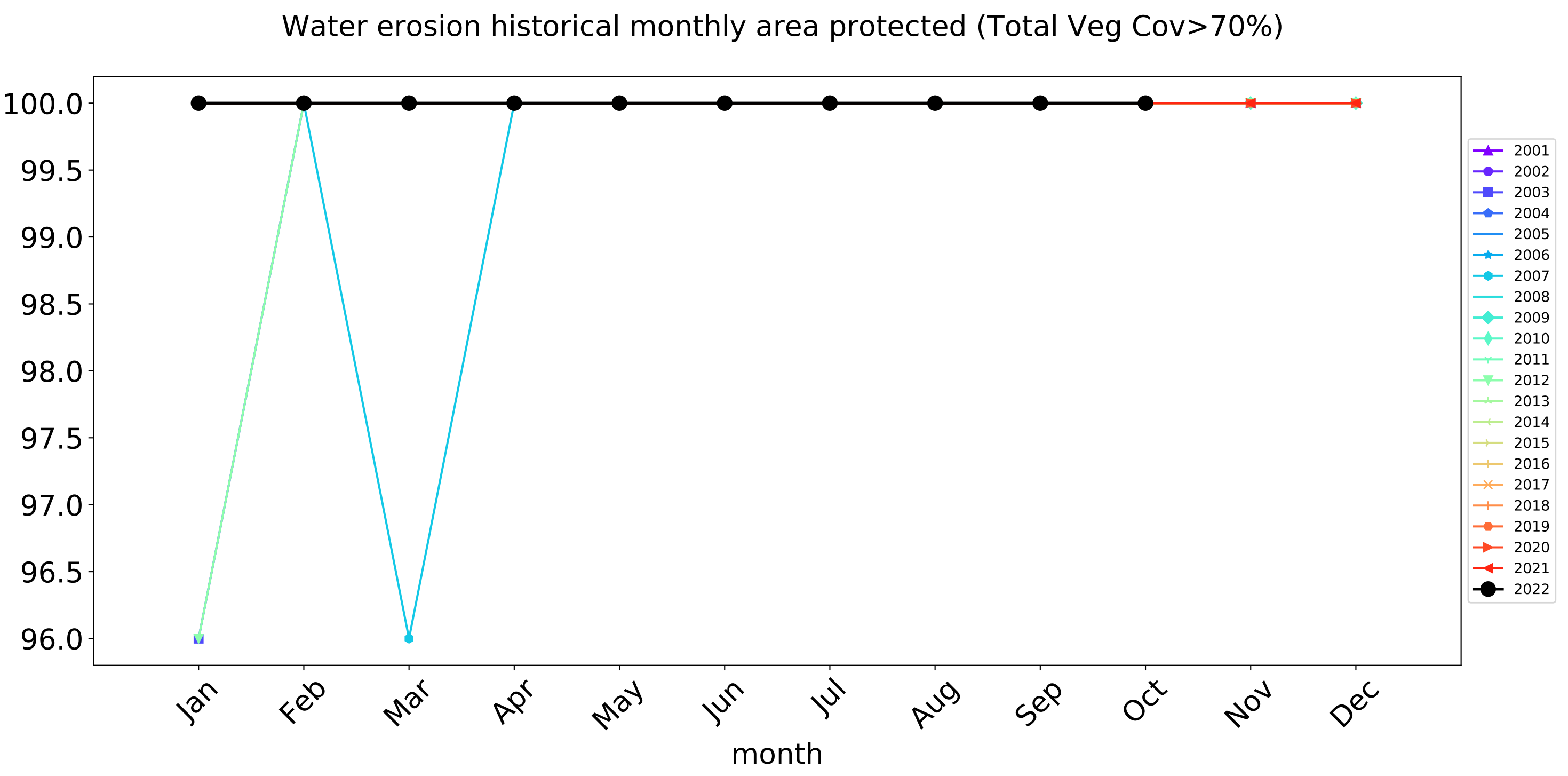
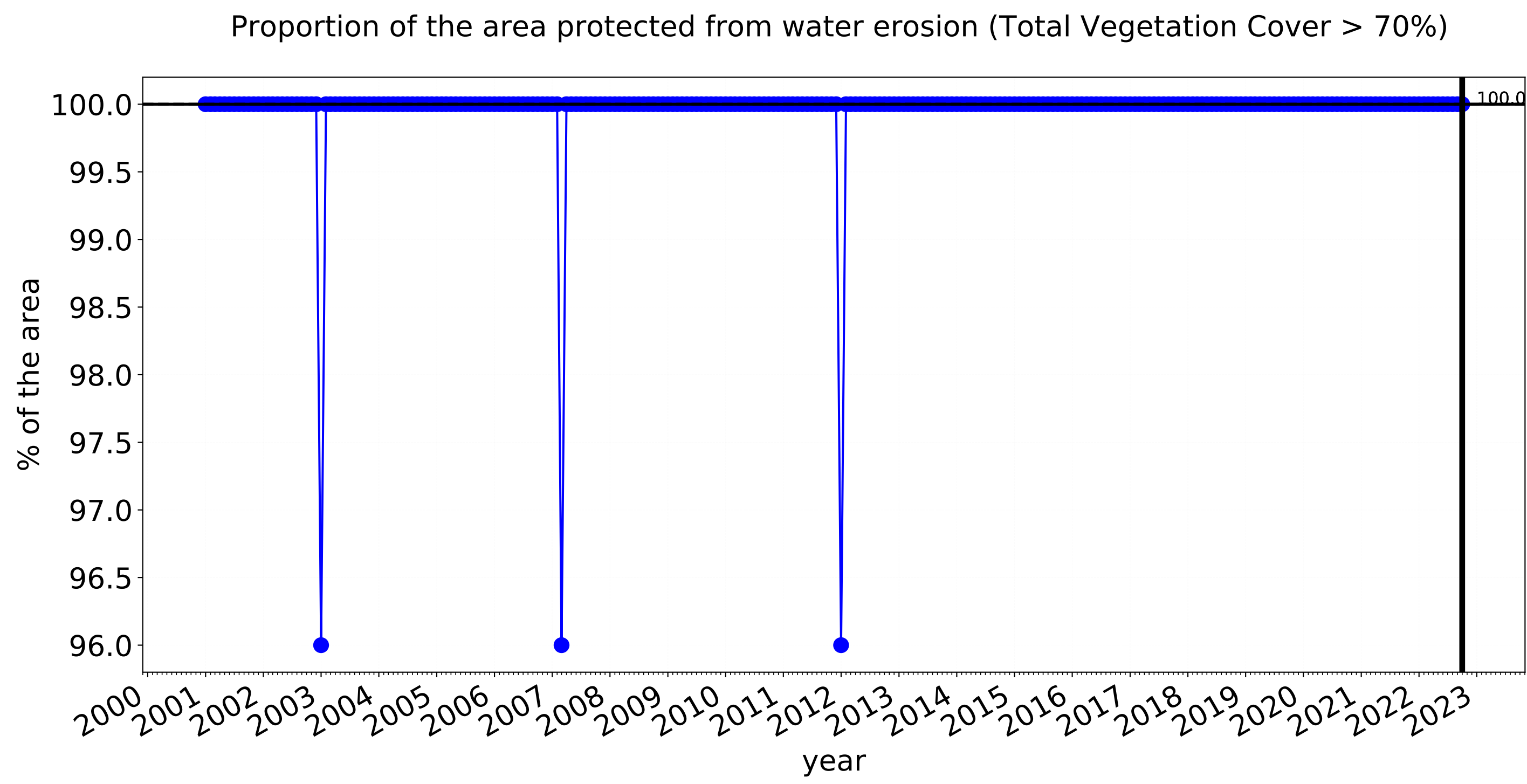
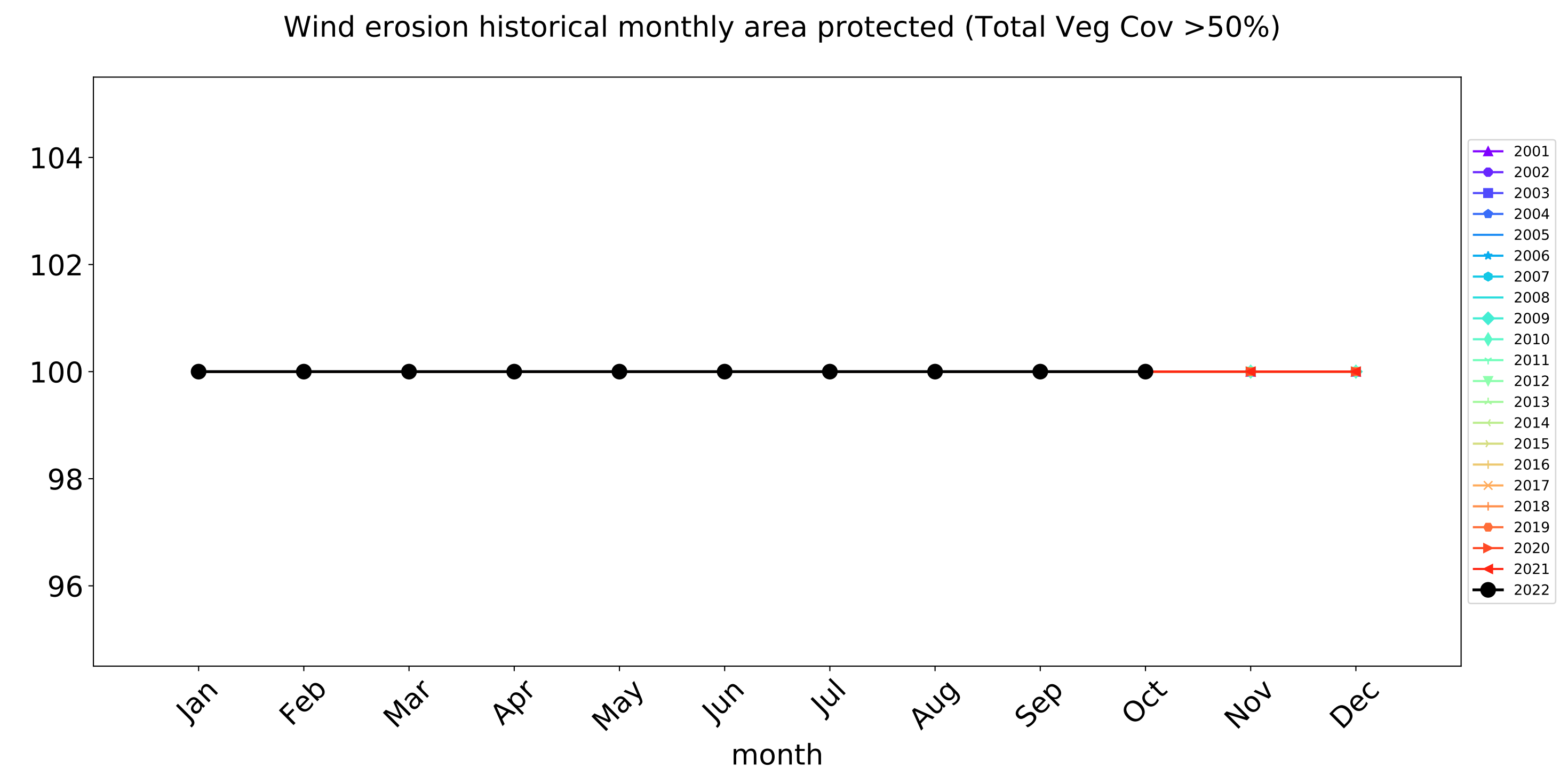
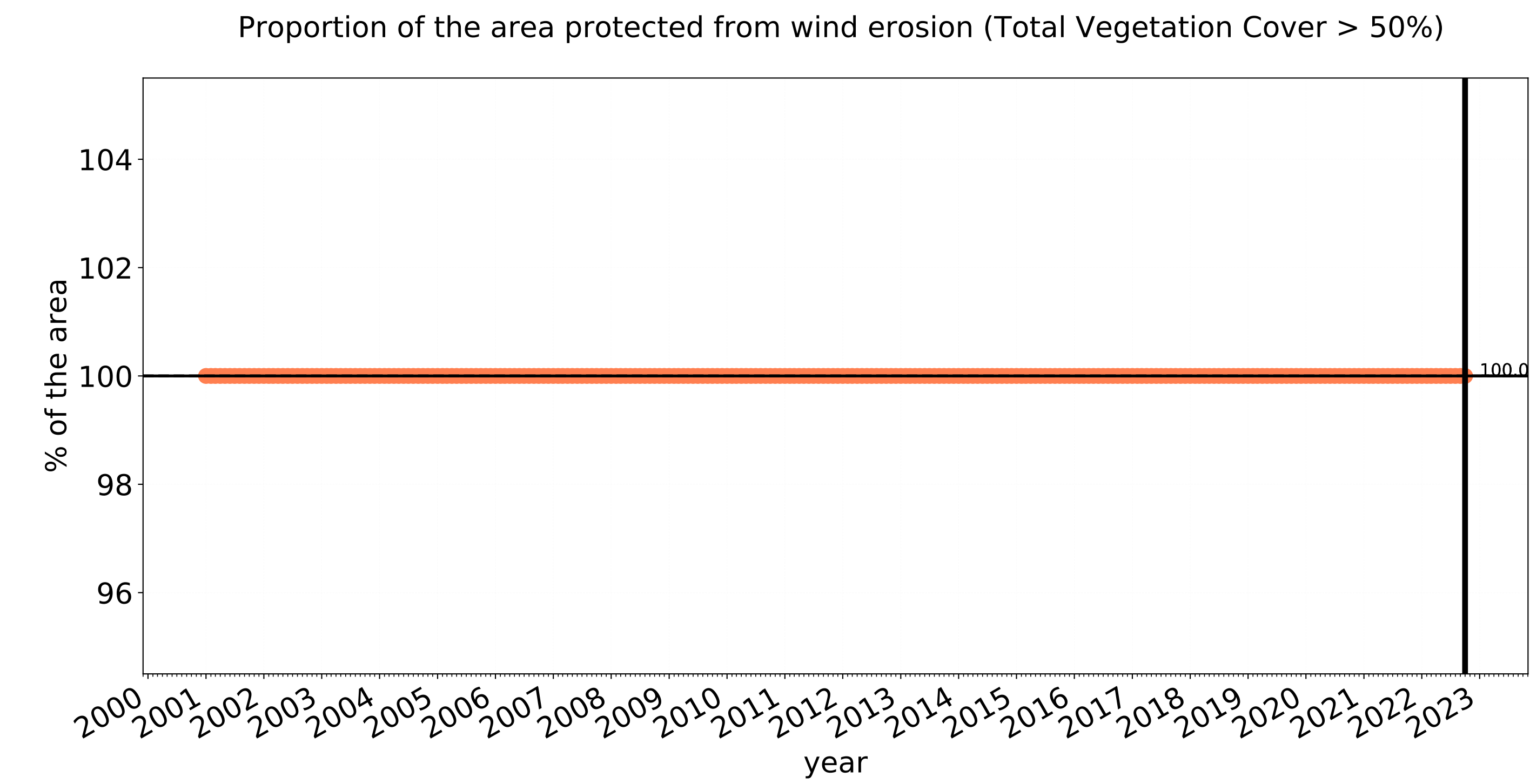


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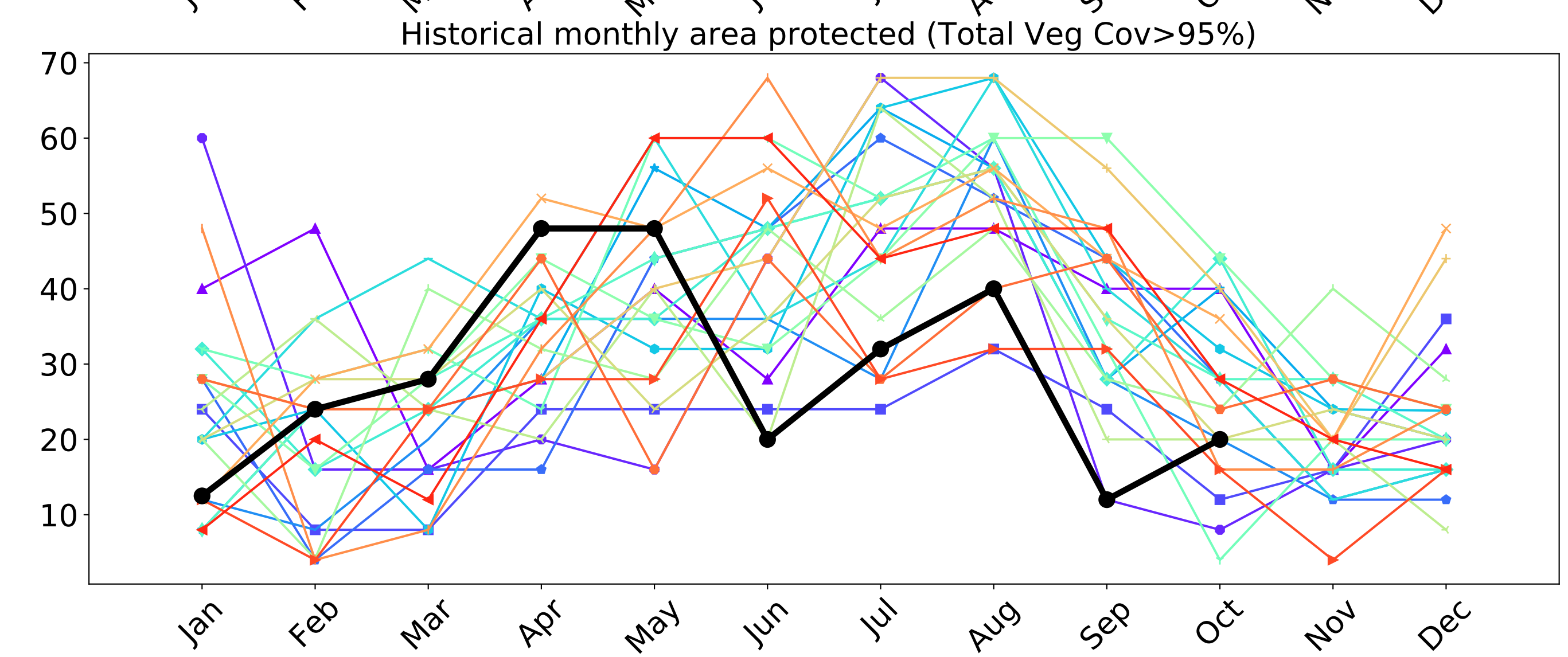
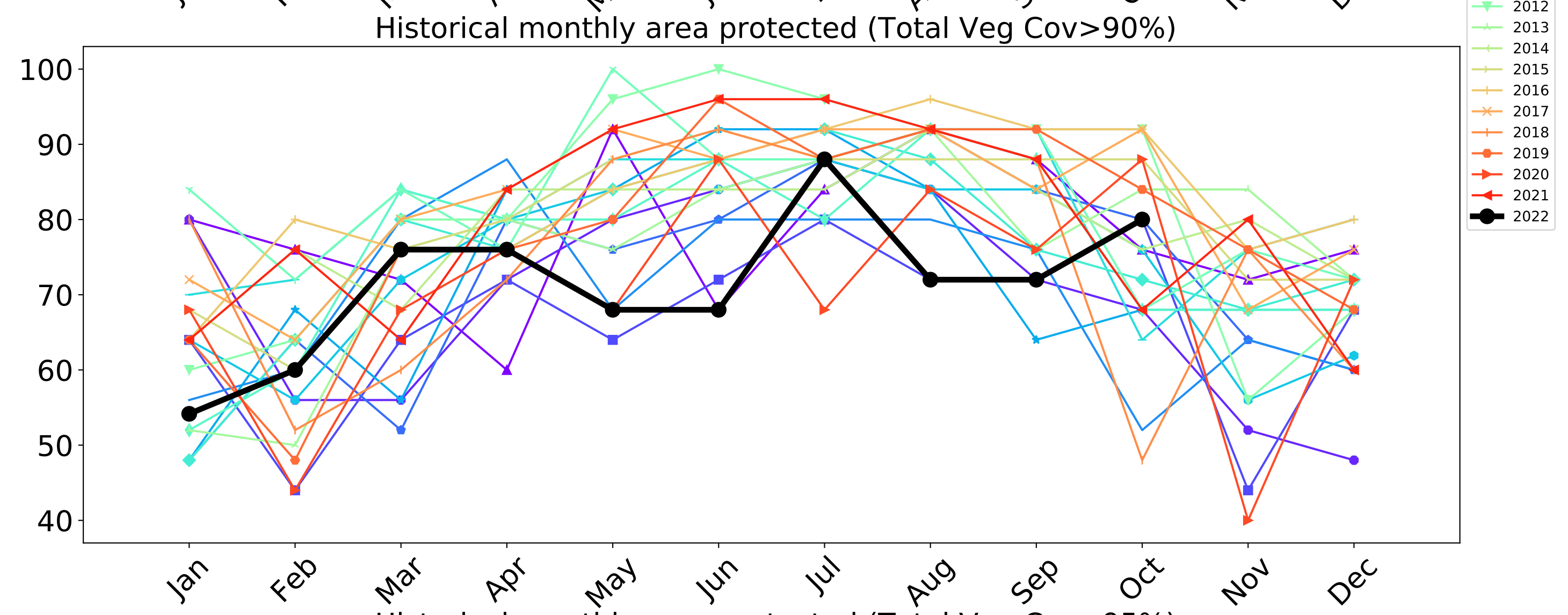
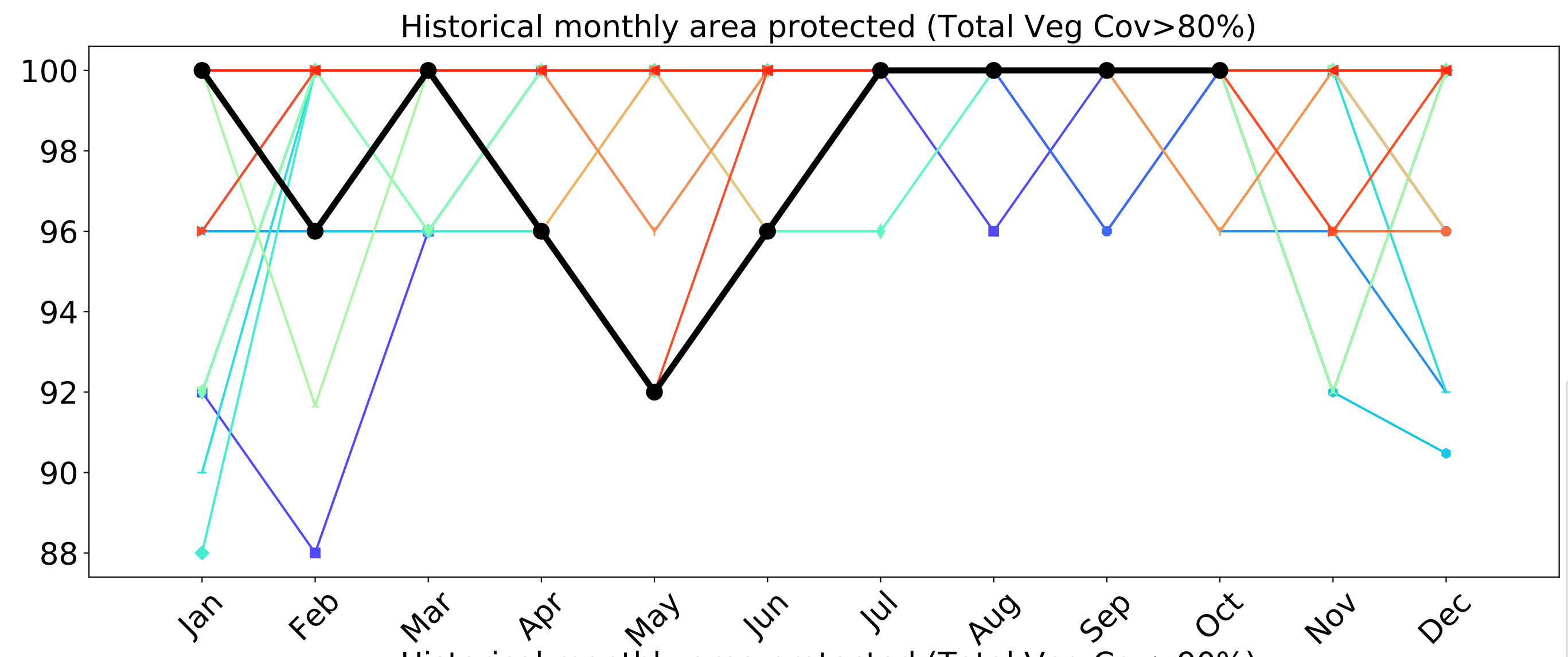
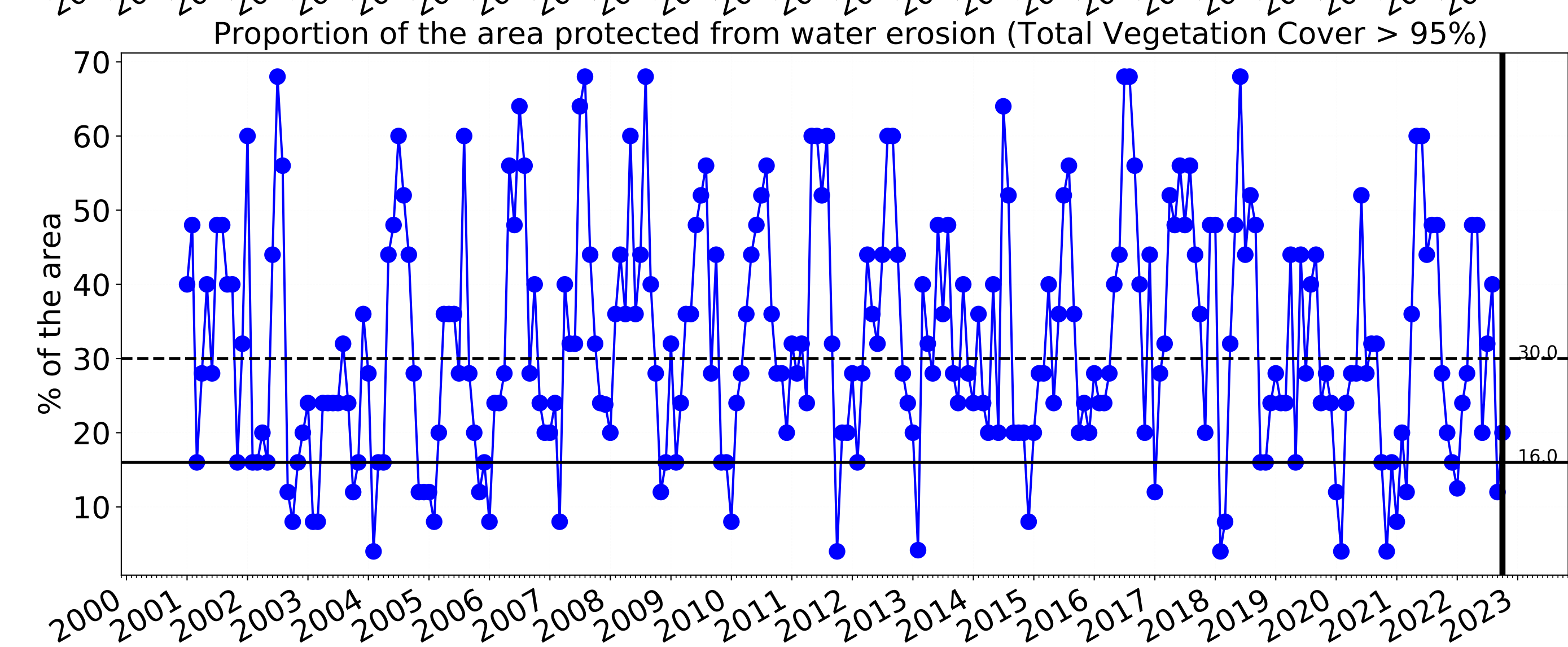
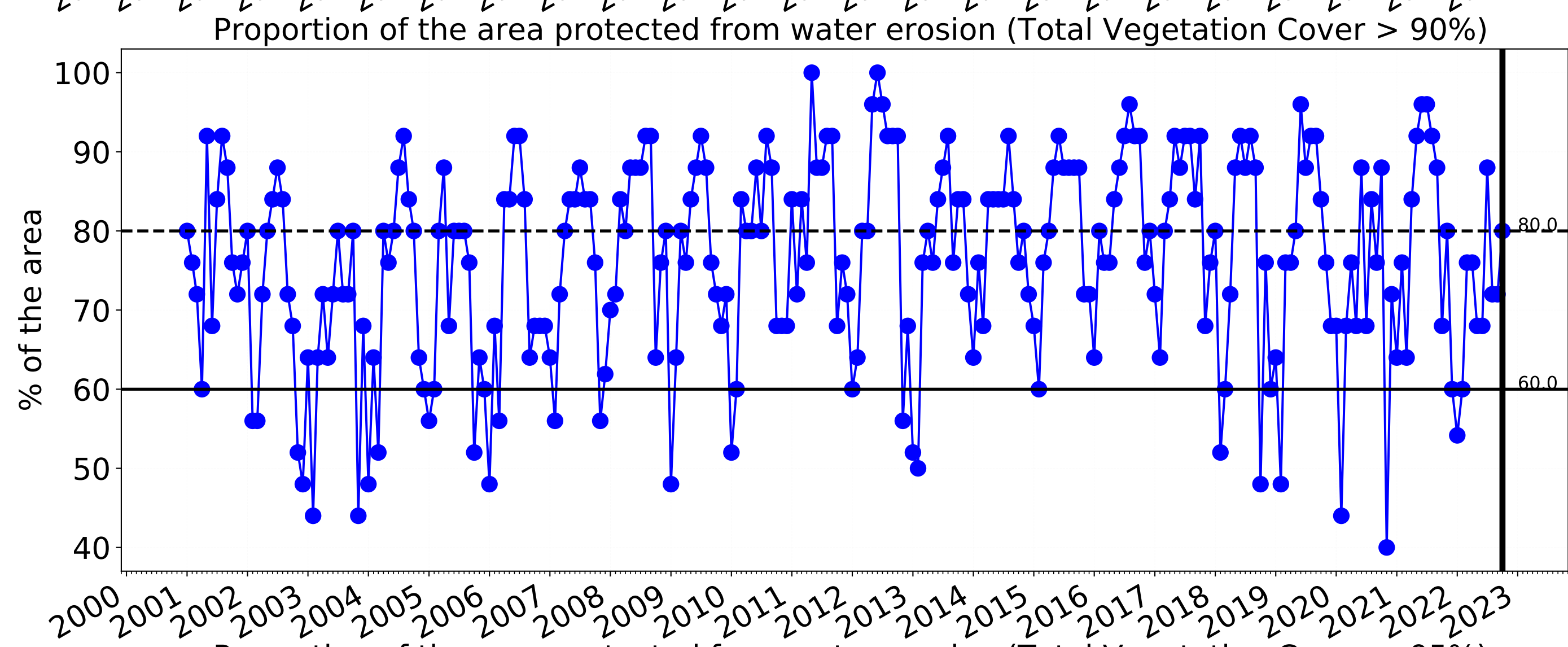
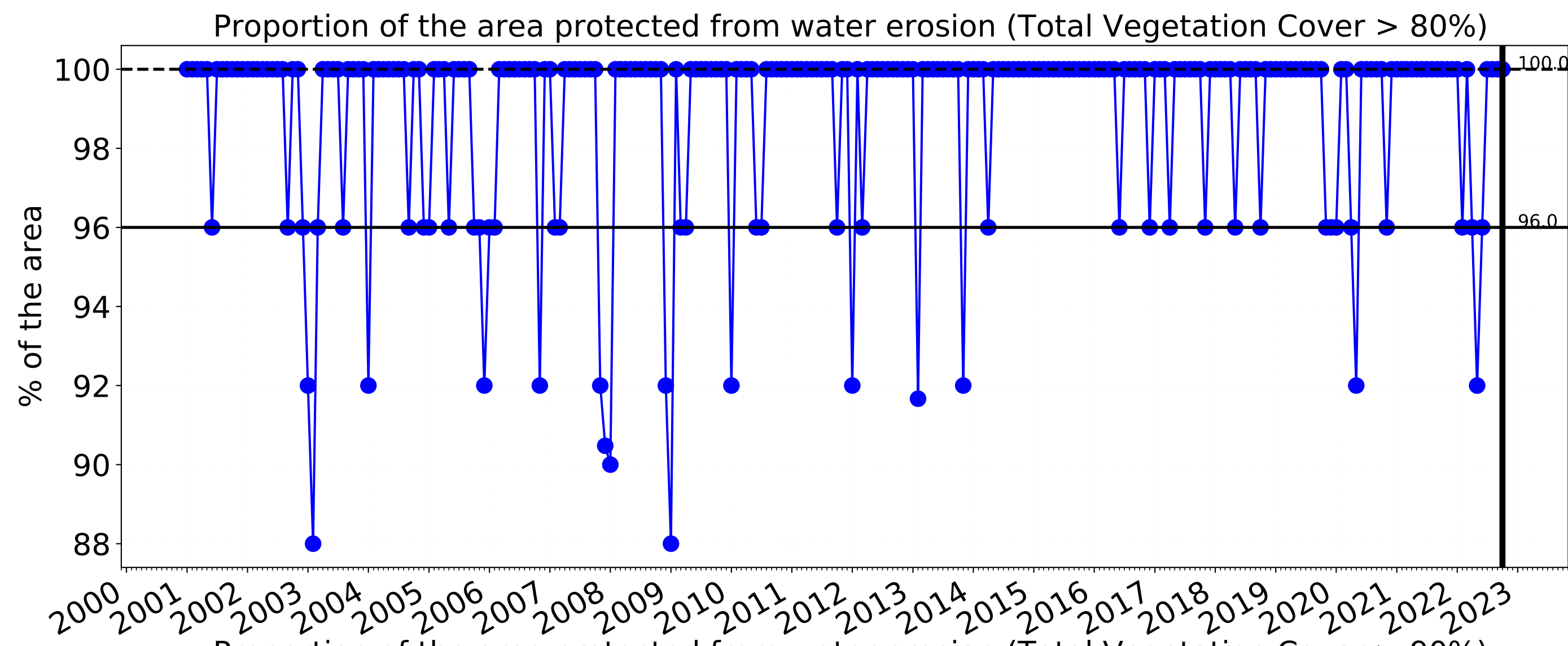
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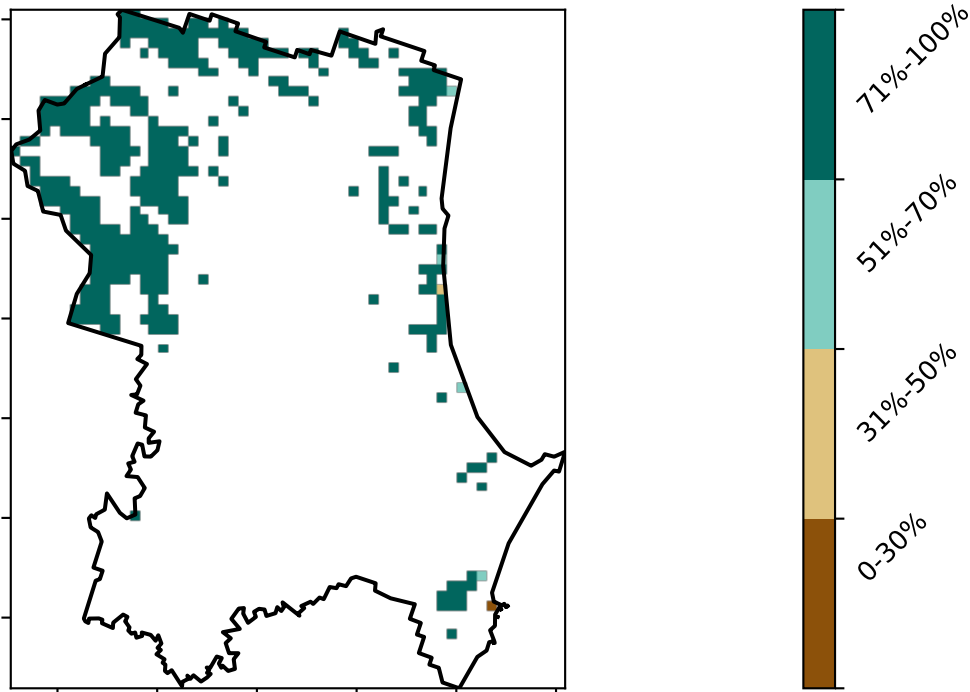
Conservation and natural environments Forest (non woodland)

Land use and forest cover

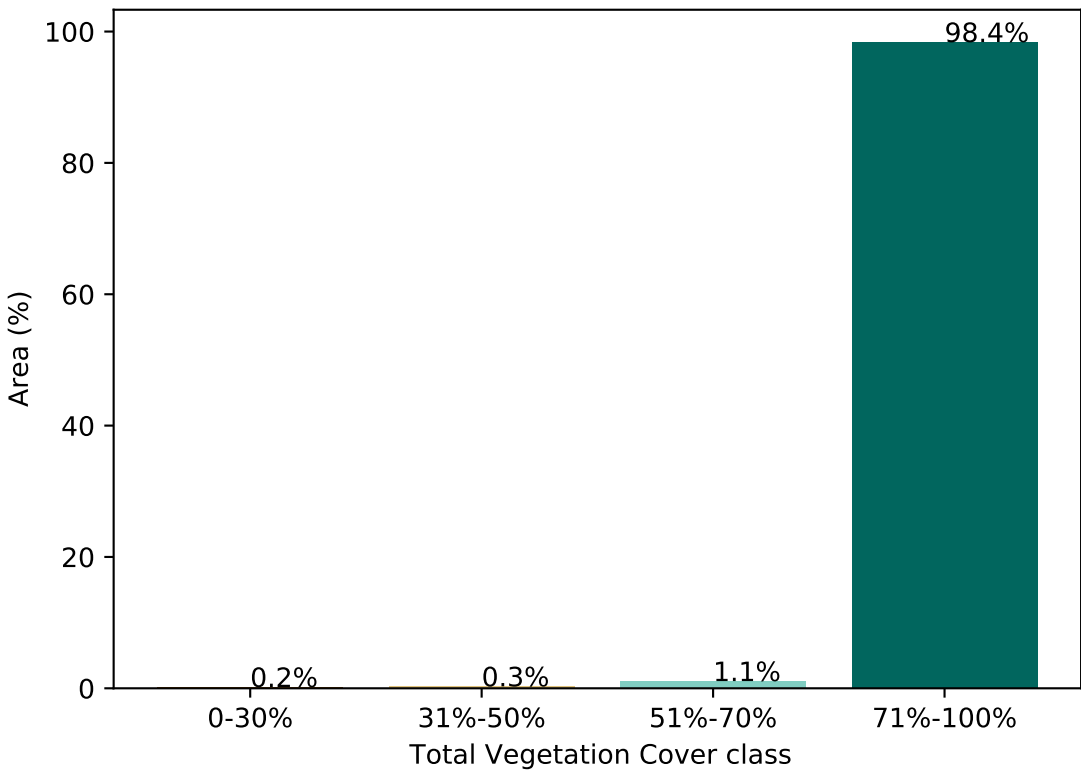
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Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



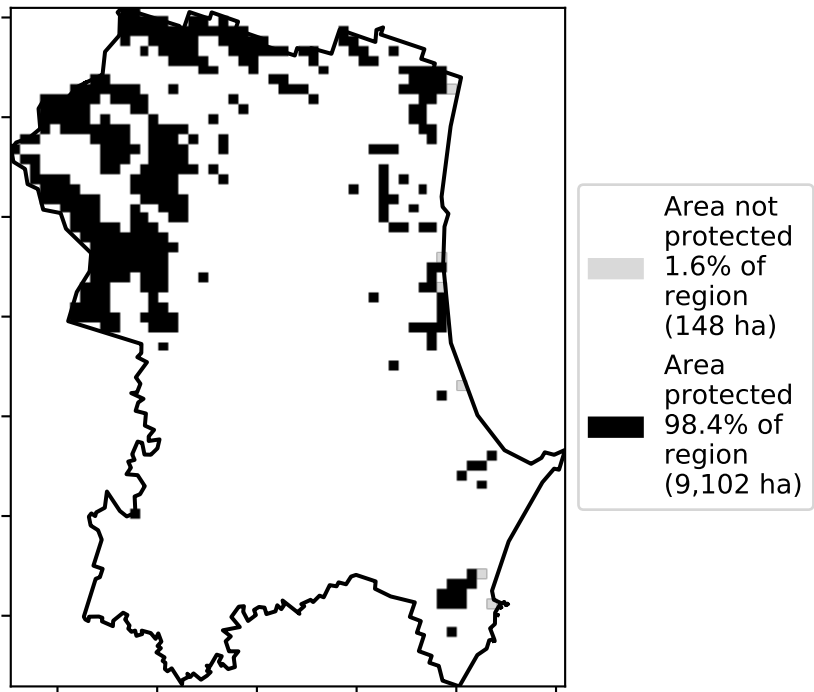
Total Vegetation Cover [%]



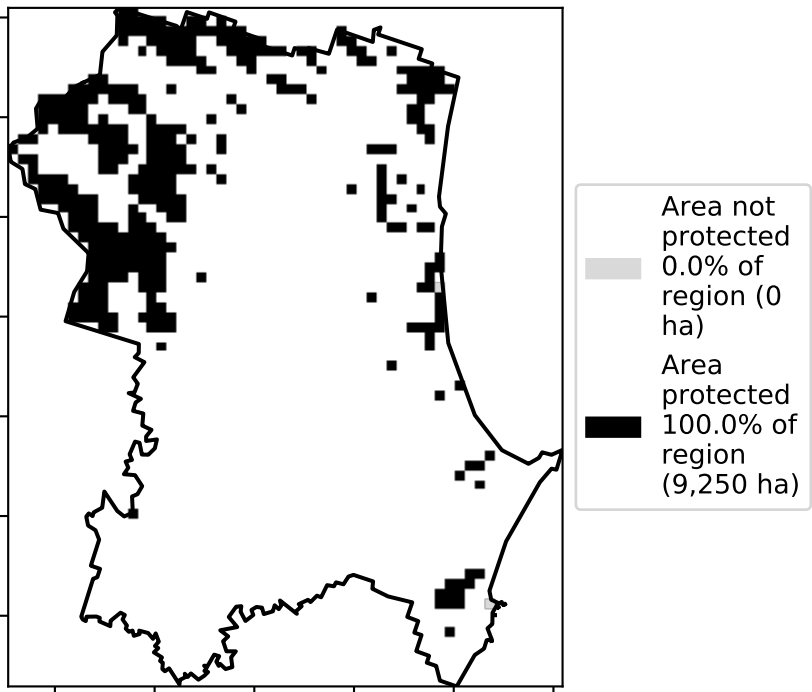
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

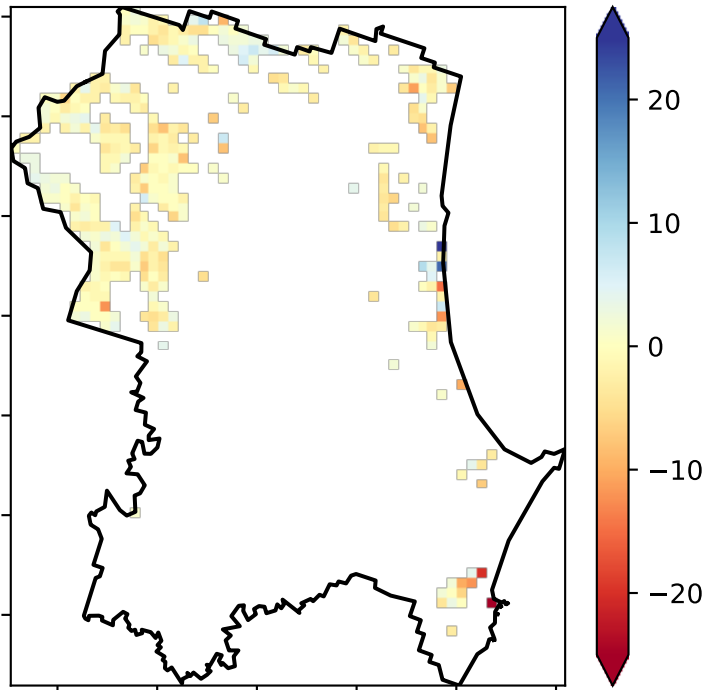


% Area protected from wind erosion (>50%)



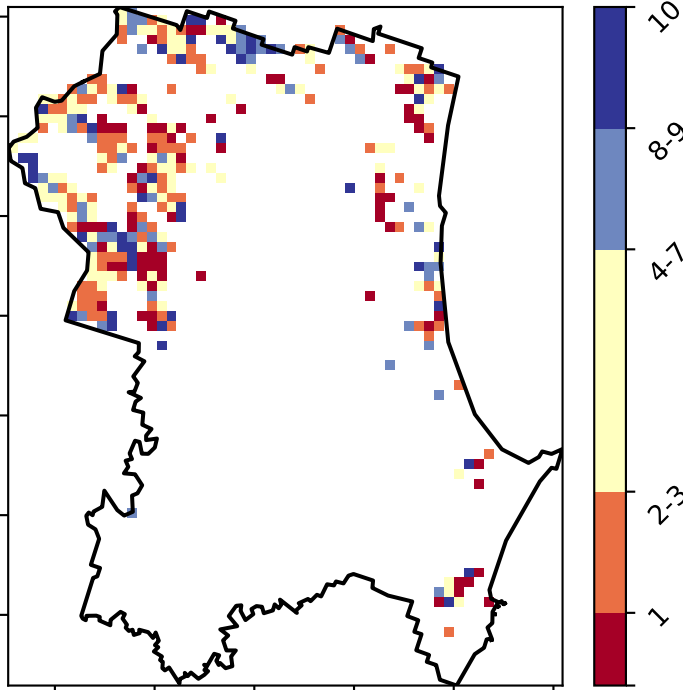
Total Vegetation Cover Anomaly [%]

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.



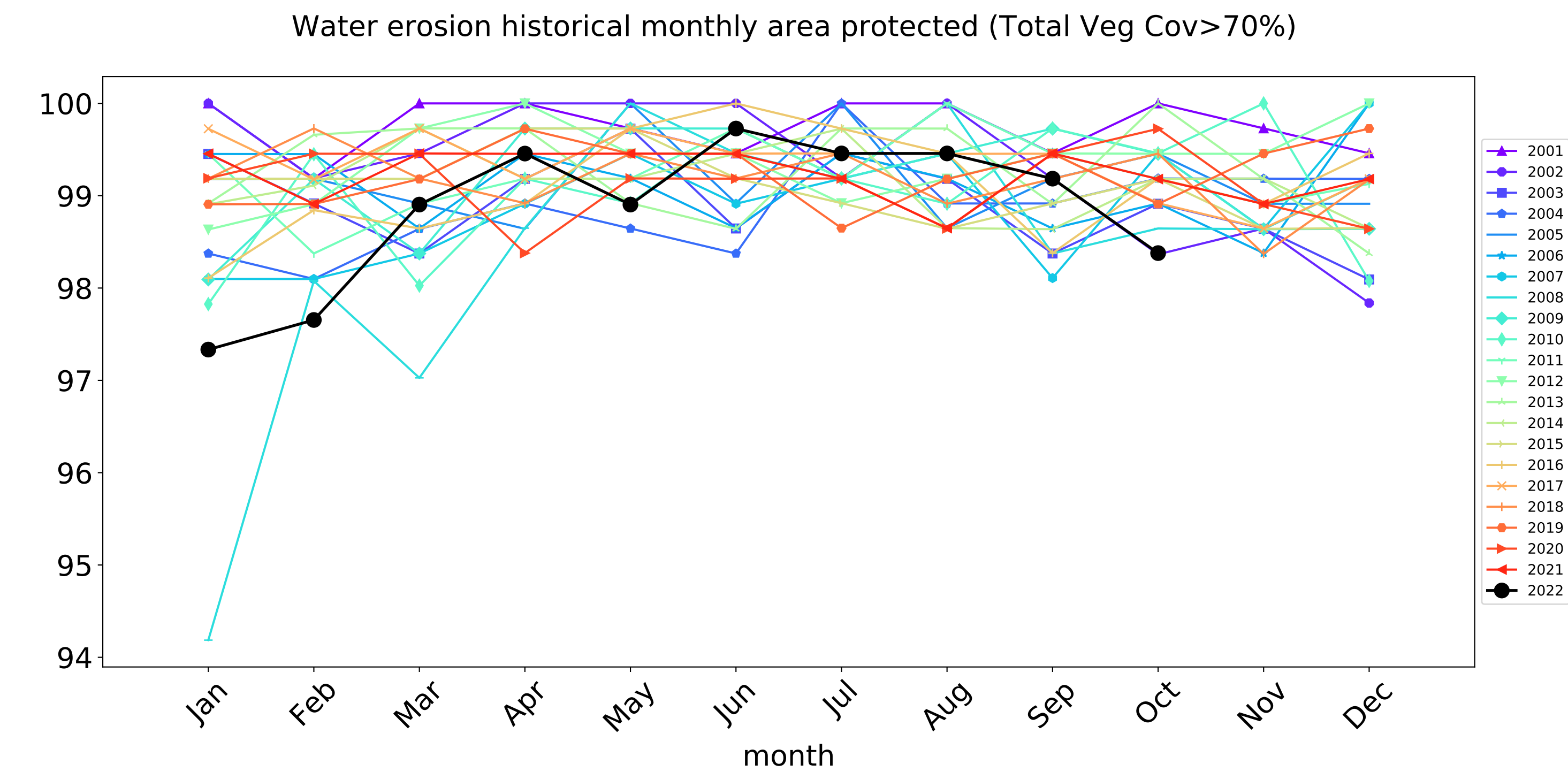
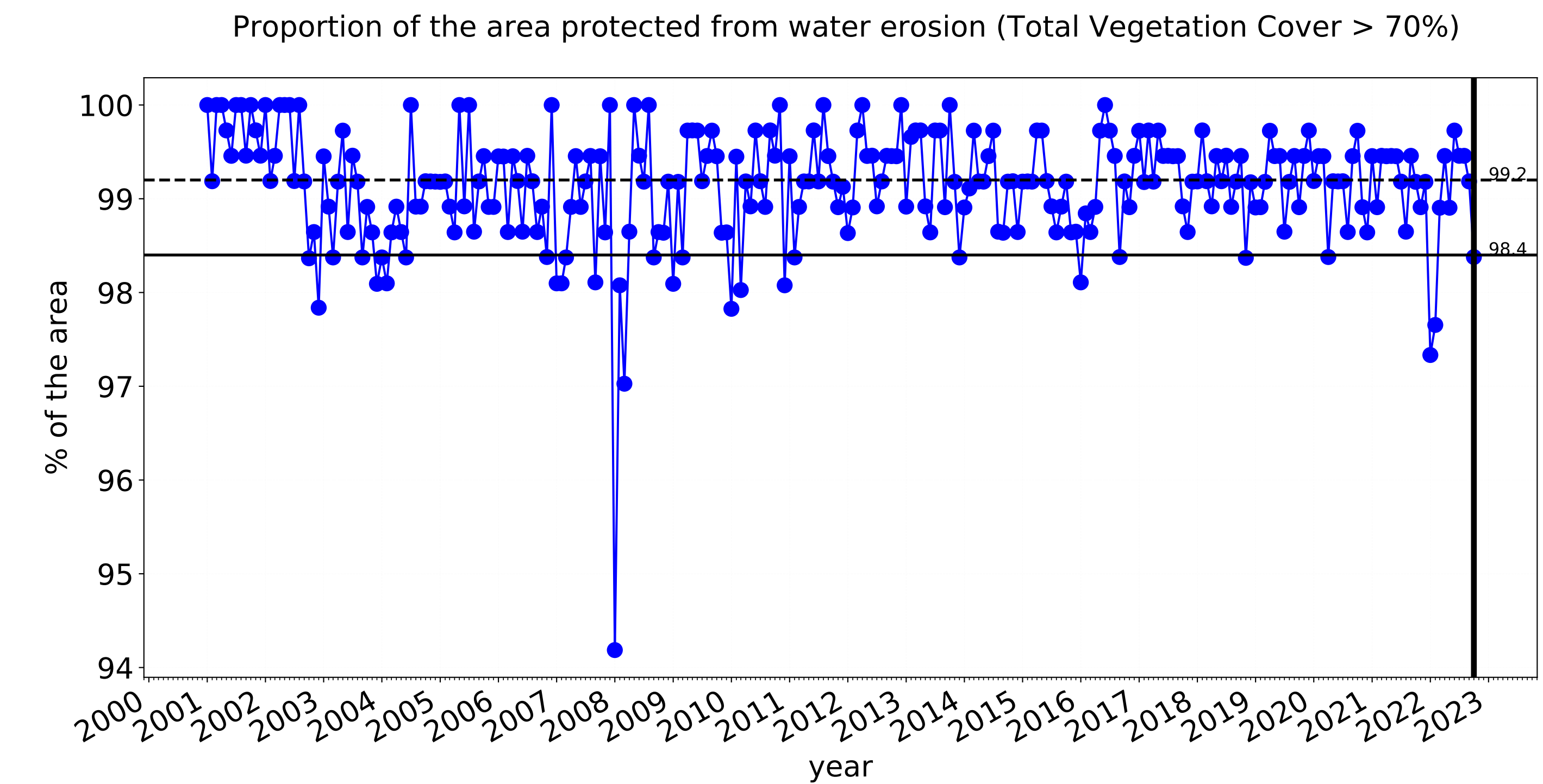
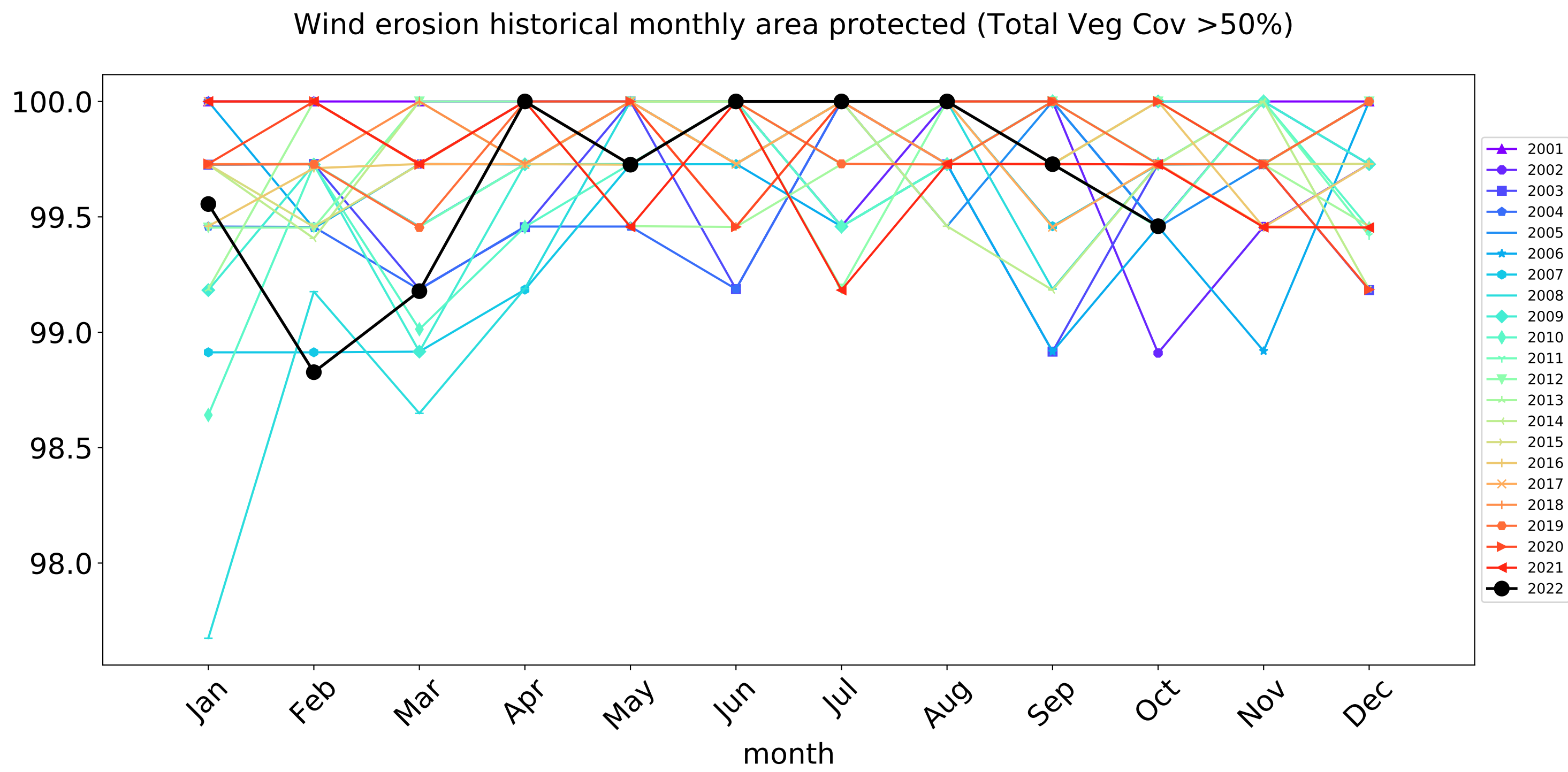
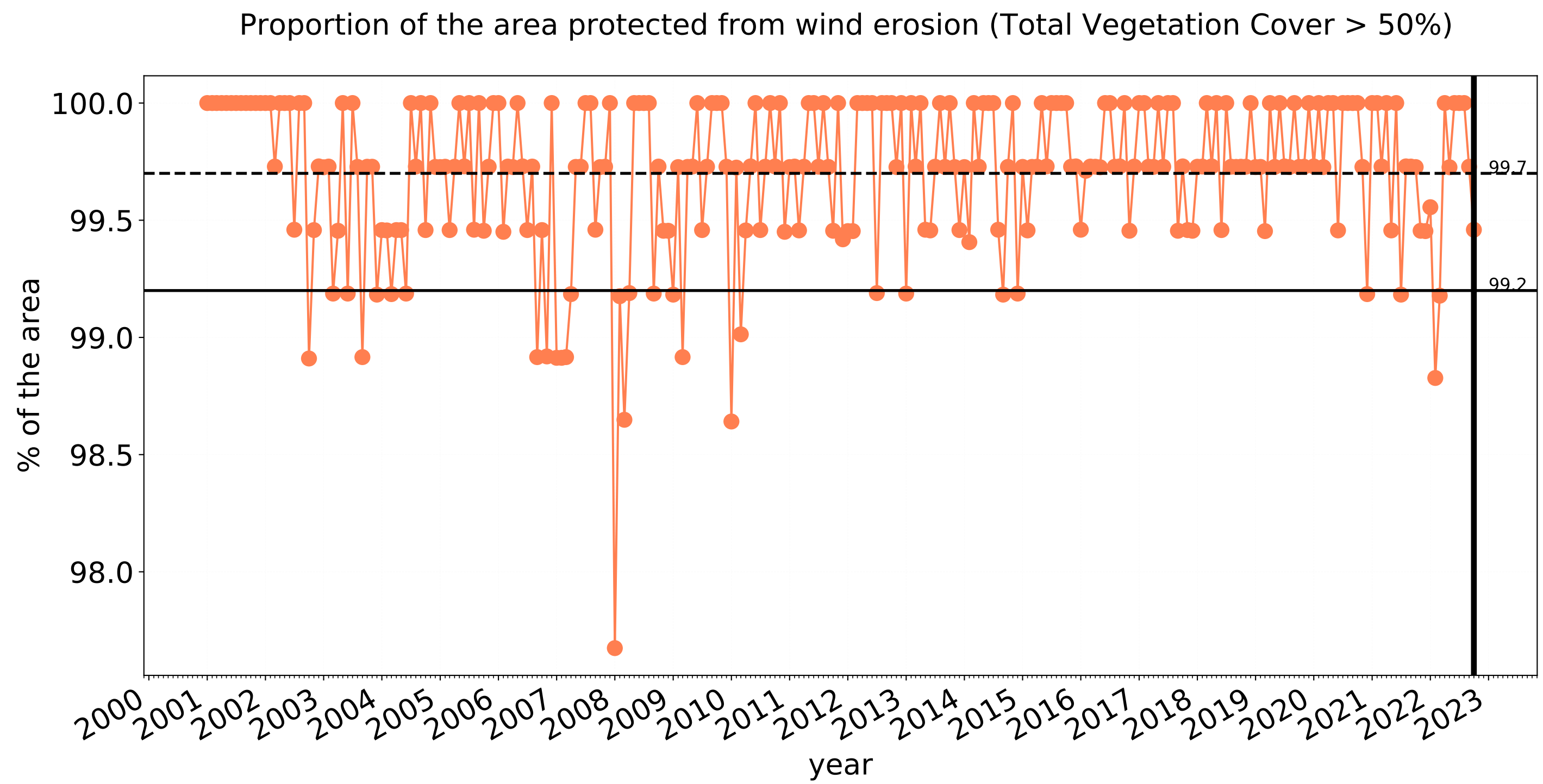
Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

Total Vegetation Cover Decile [%]

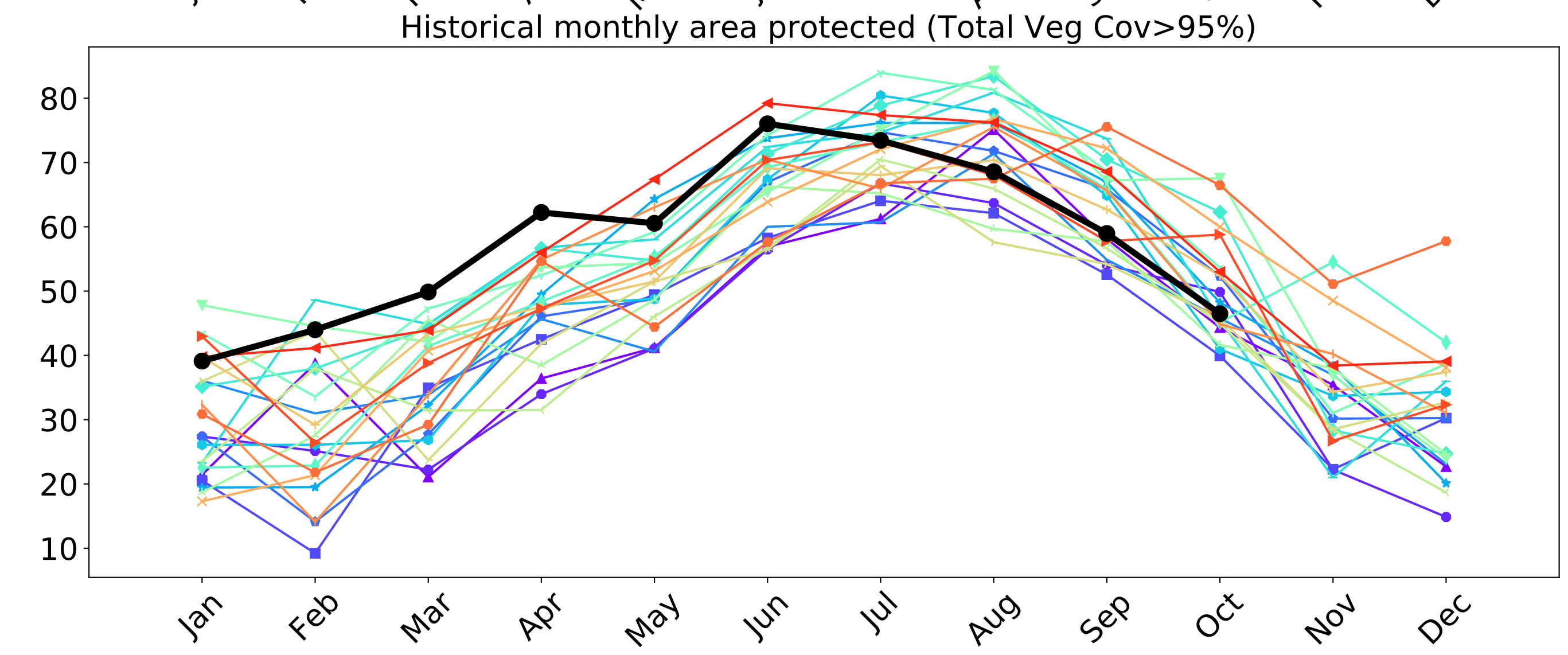
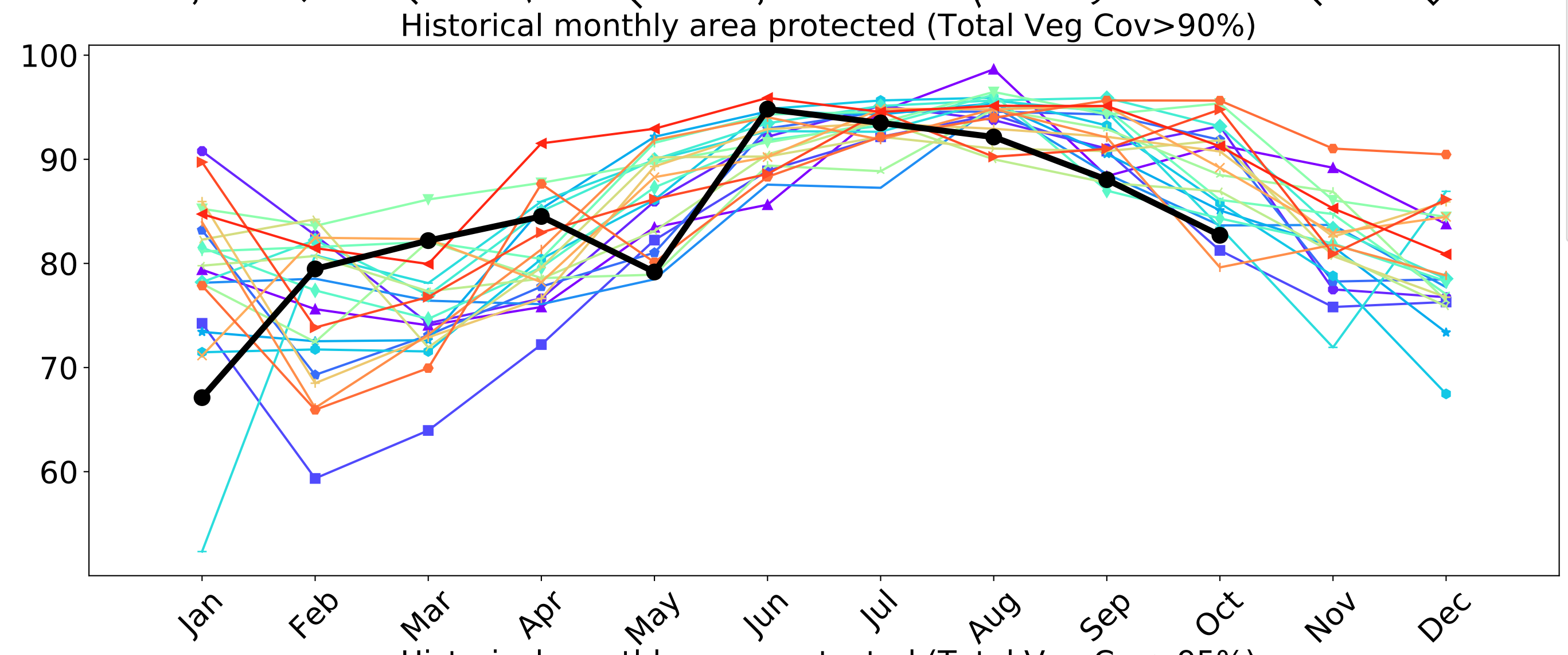
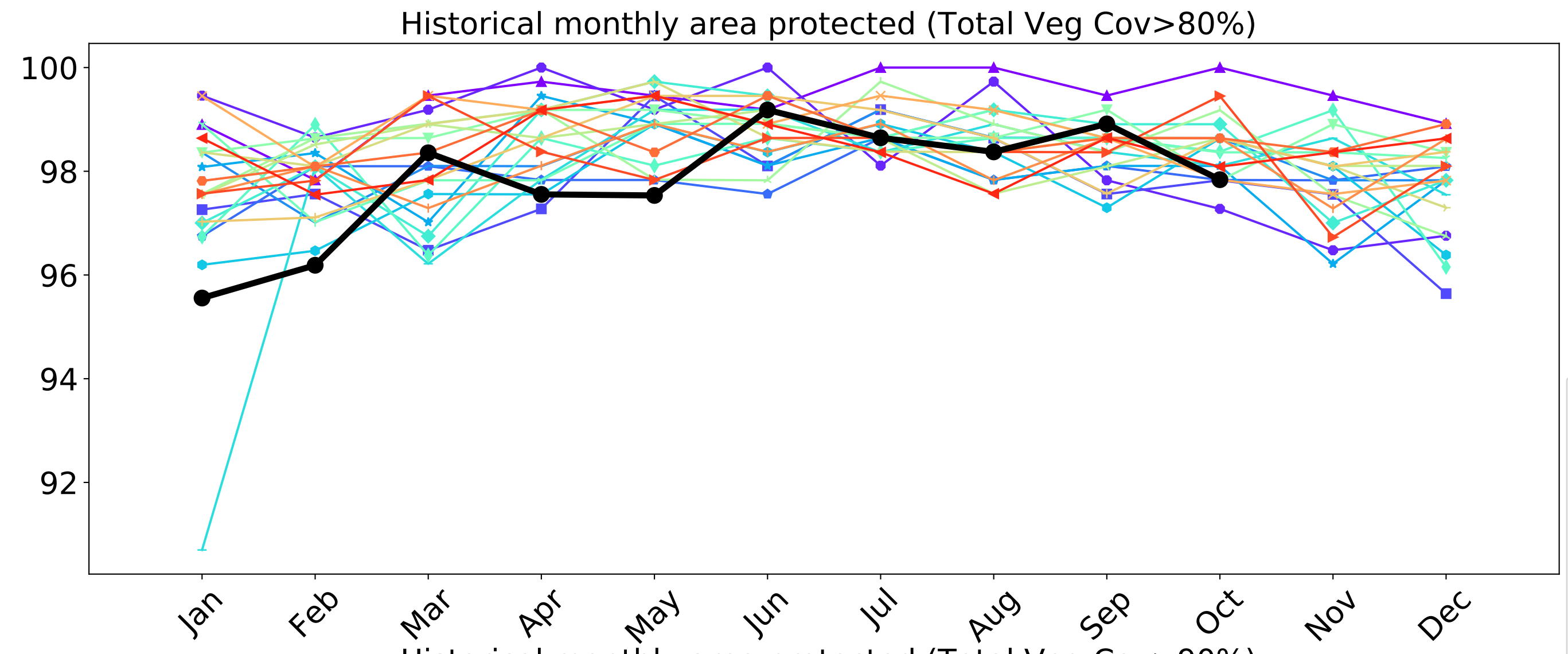
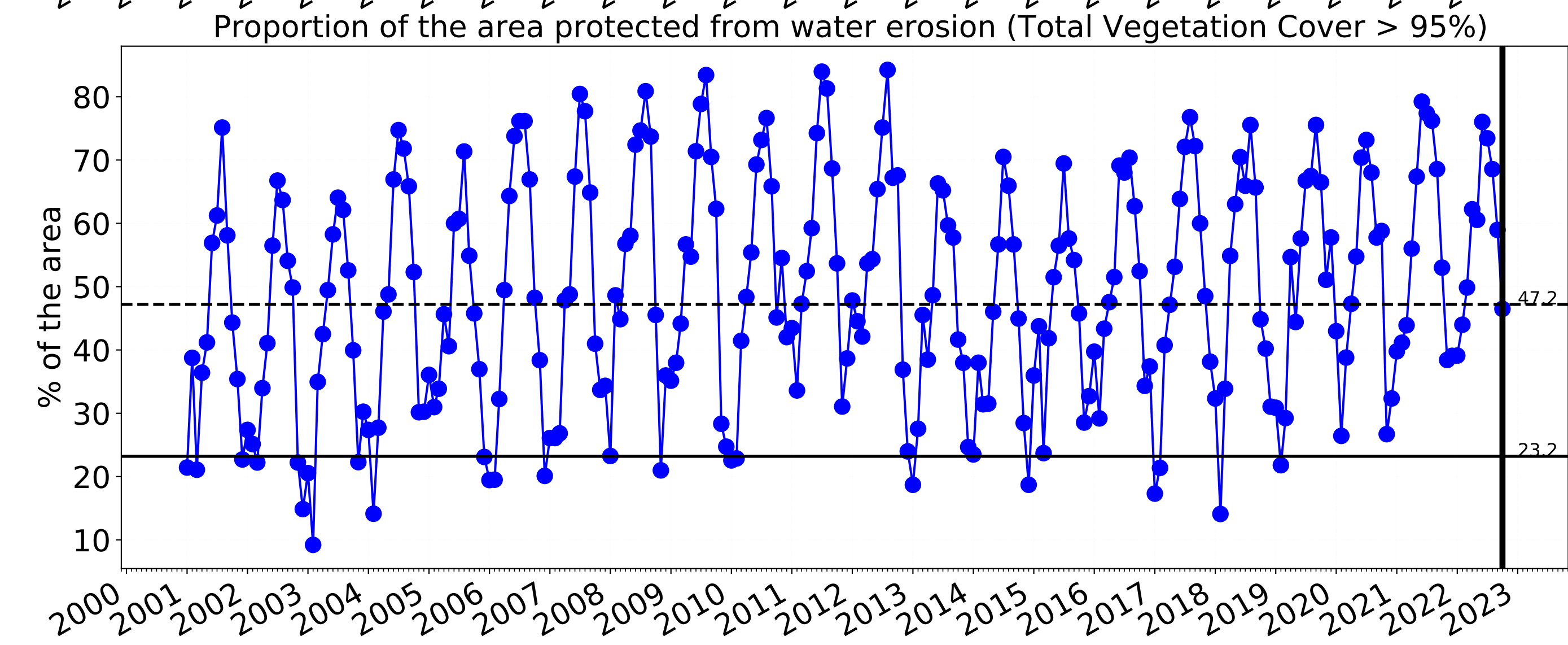
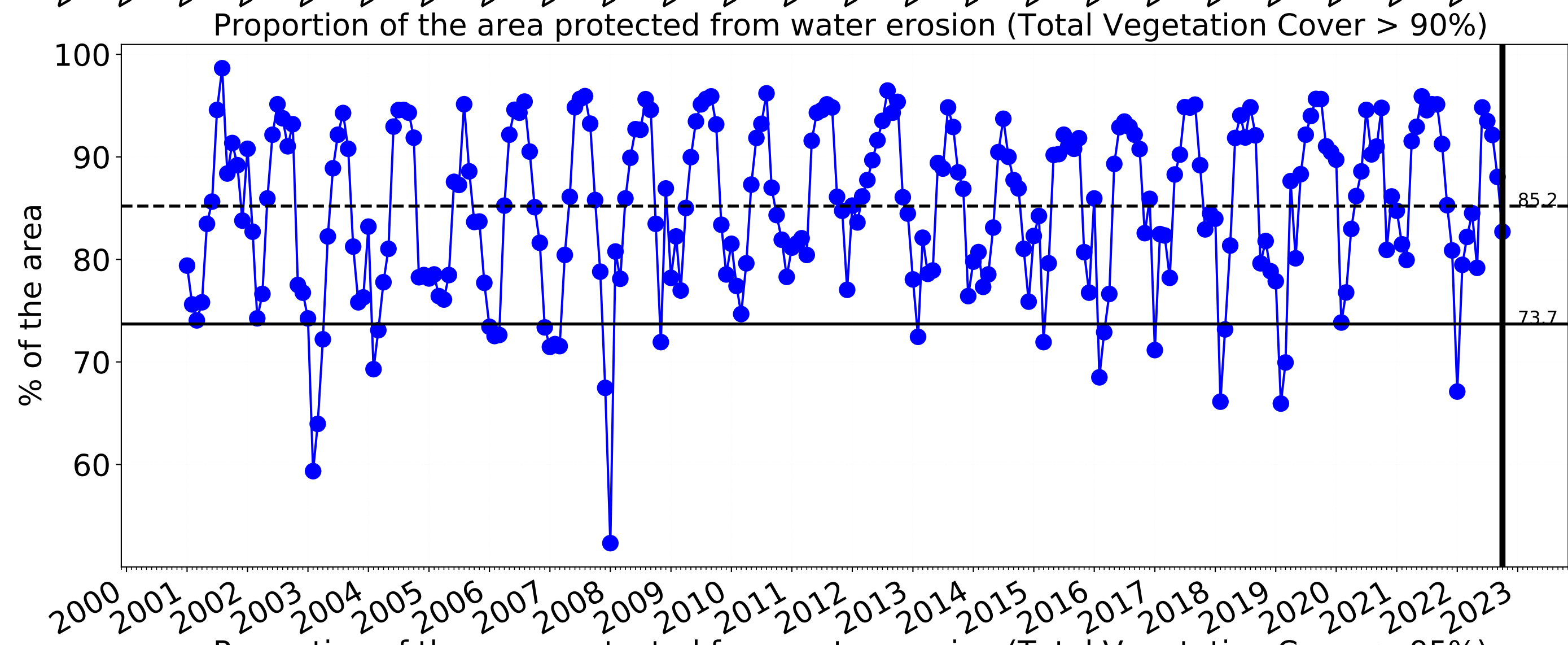
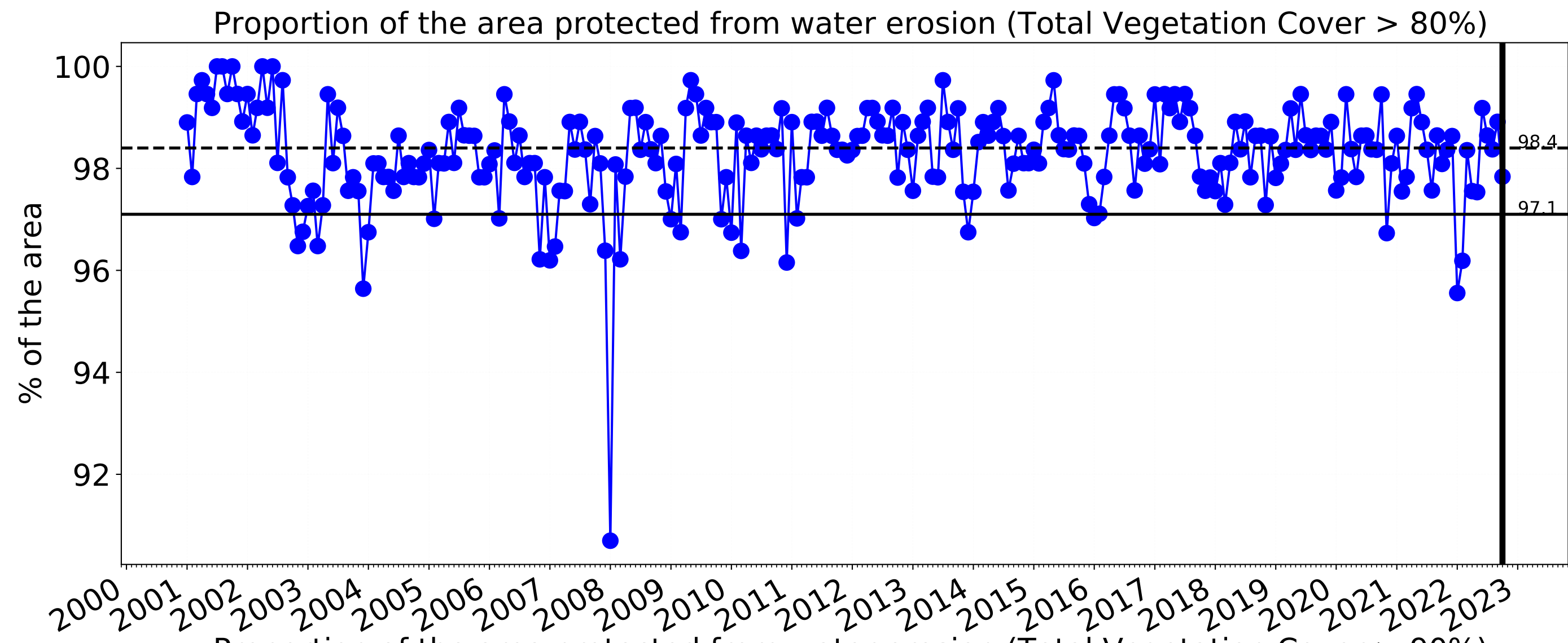




Conservation and natural environments Forest (non woodland) timeseries





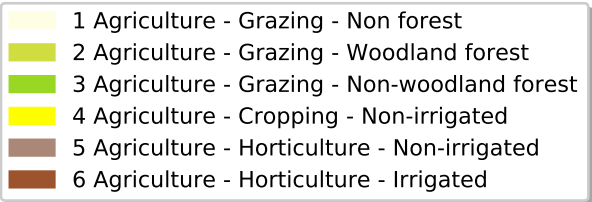
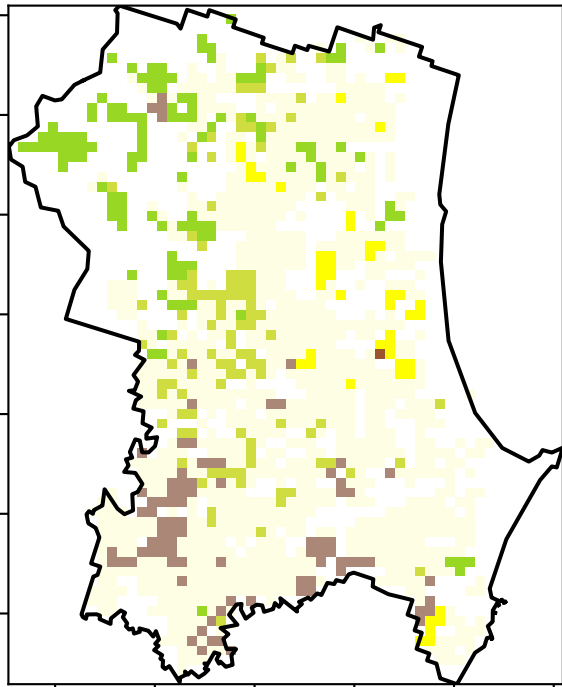




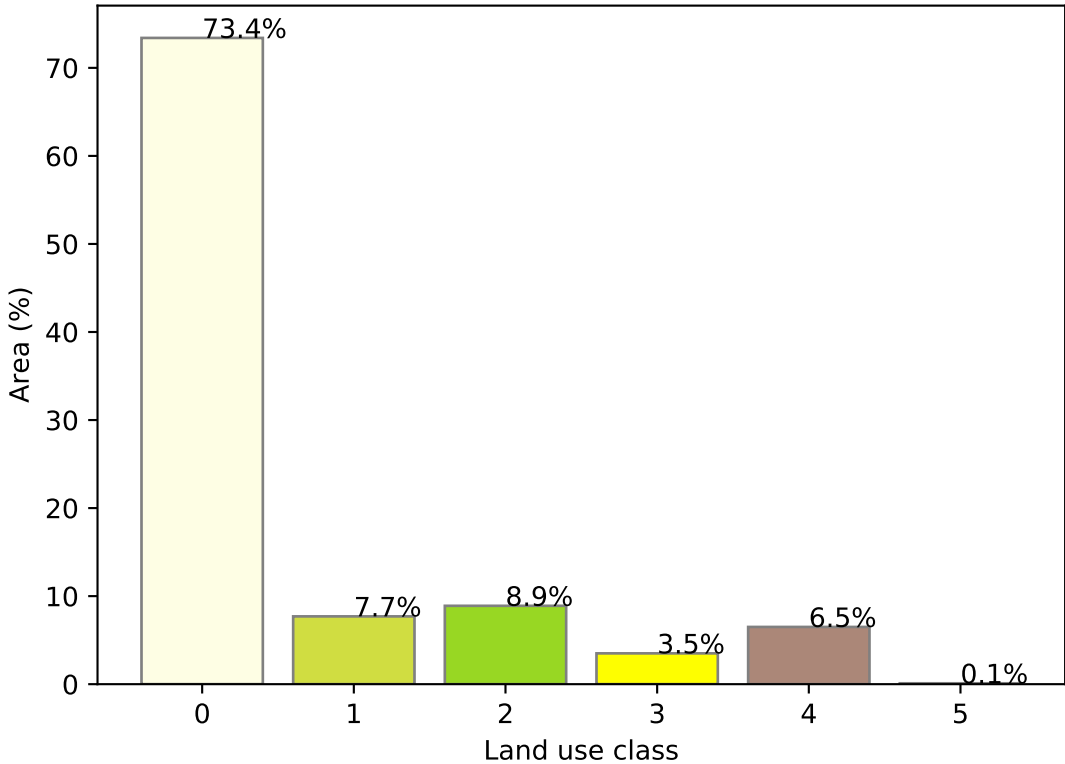
Agriculture

Land use and forest cover

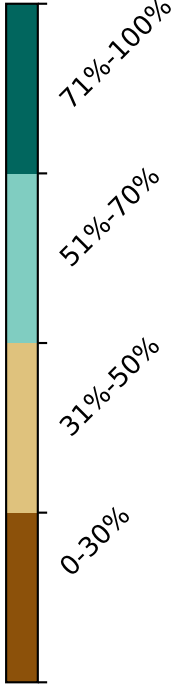
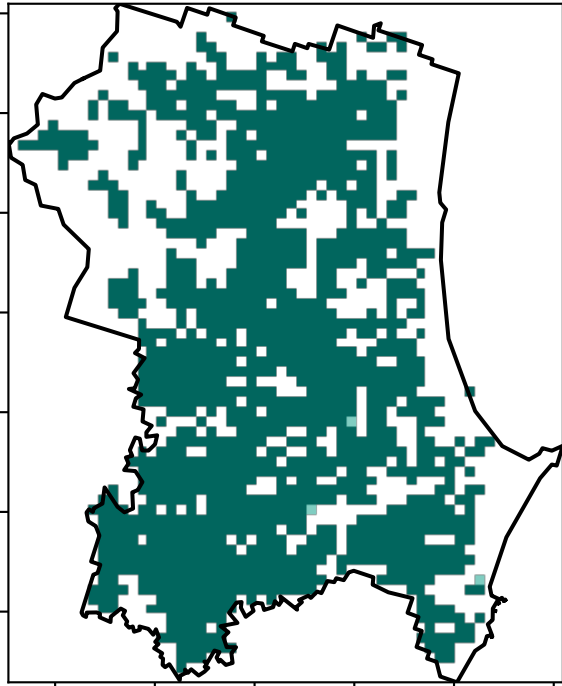
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



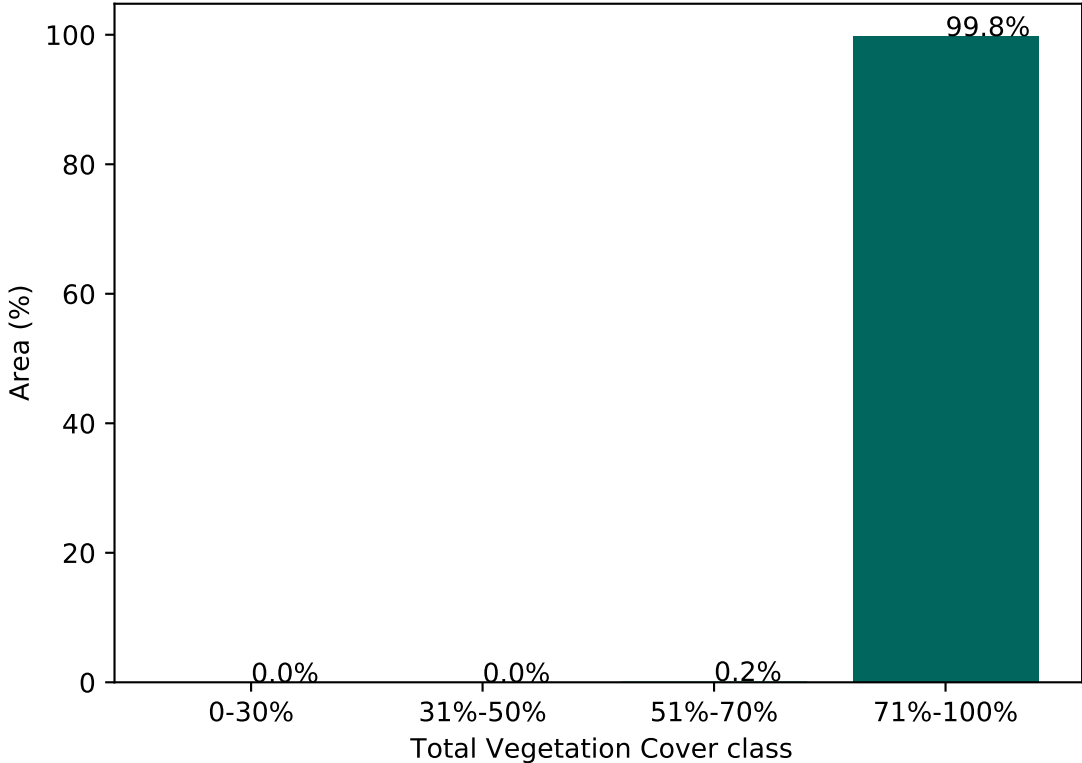
Proportion of each land class in area



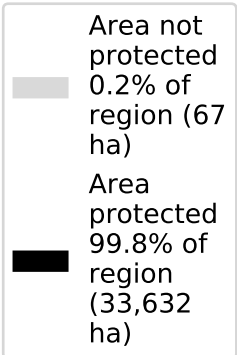
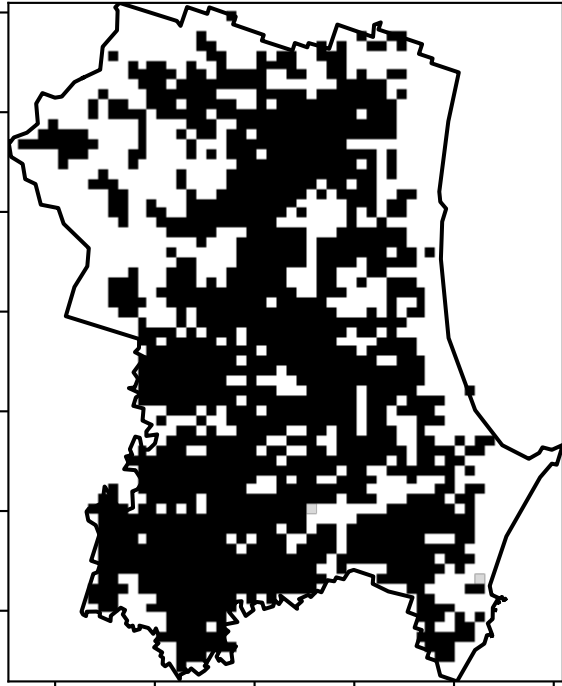
Total Vegetation Cover [%]



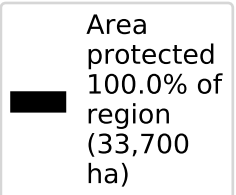
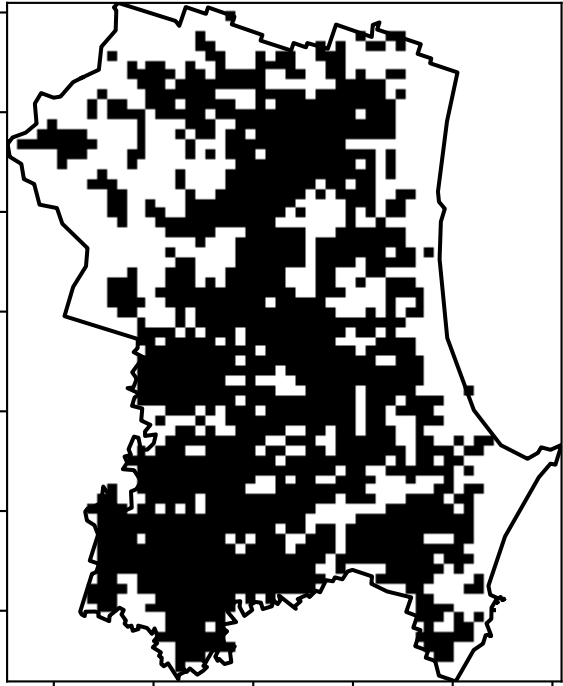
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

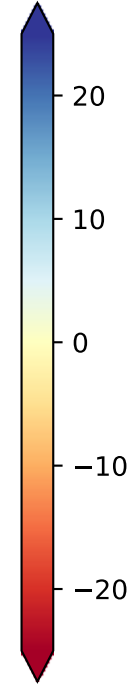
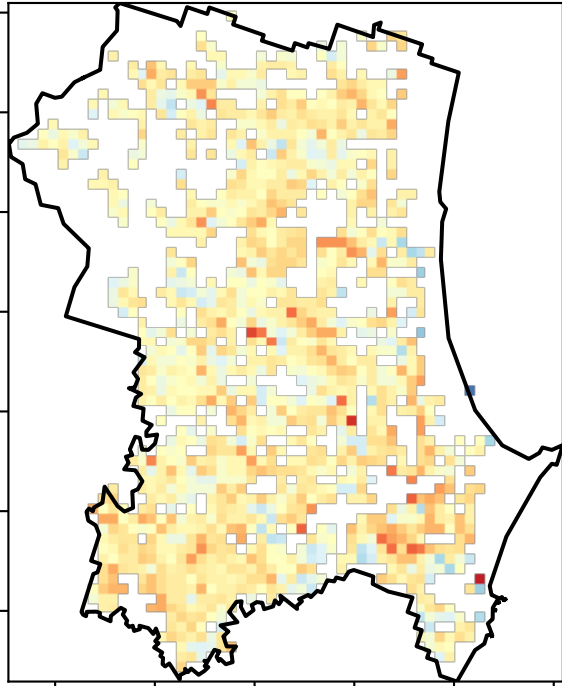


% Area protected from wind erosion (>50%)



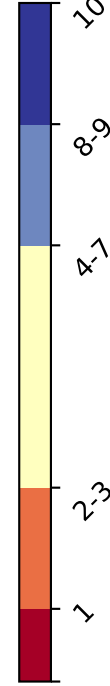
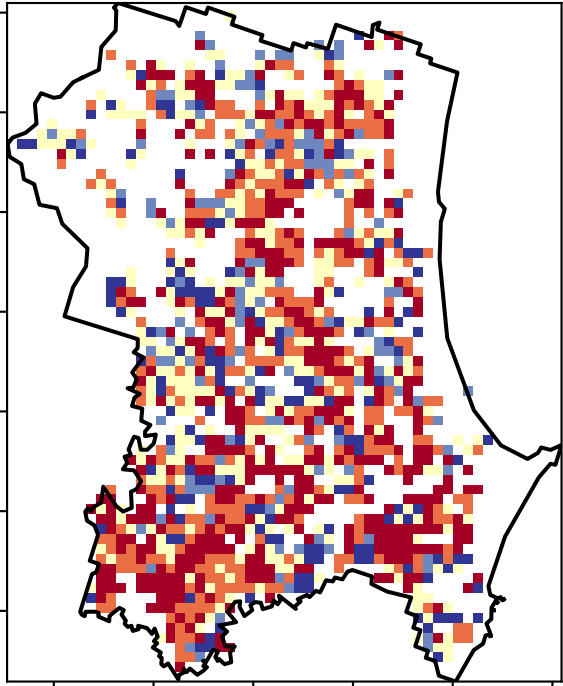
Total Vegetation Cover Anomaly [%]

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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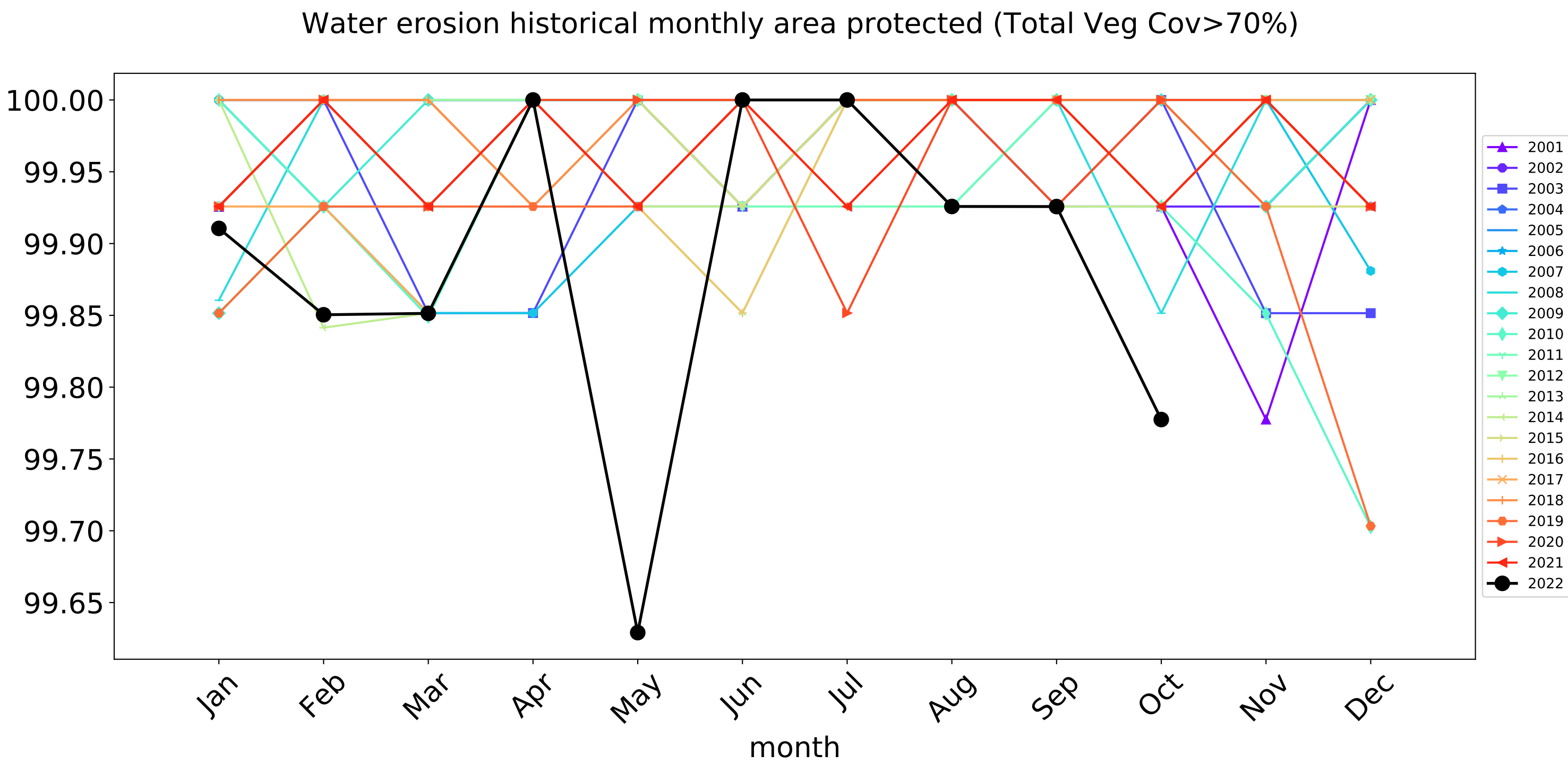
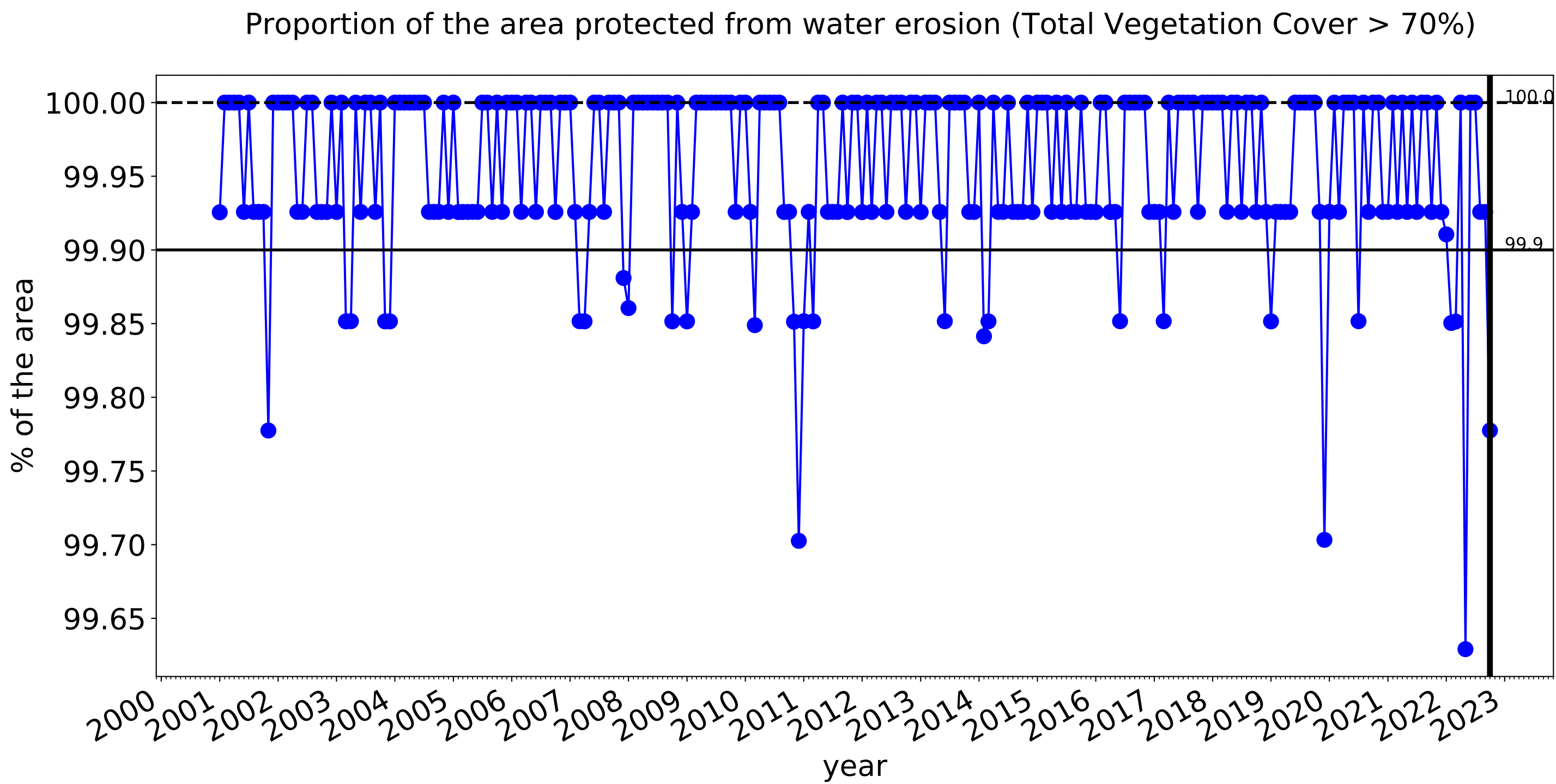
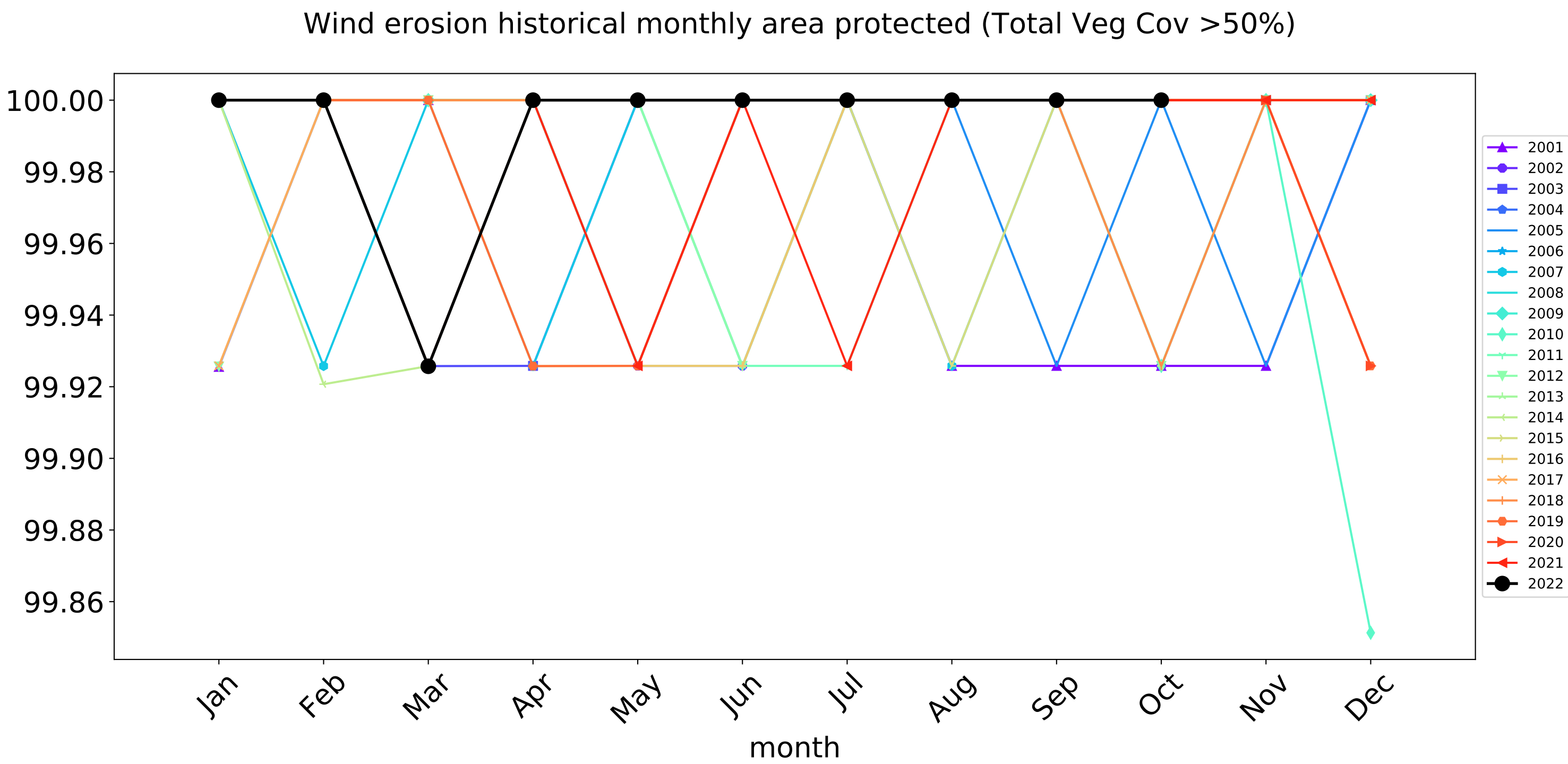
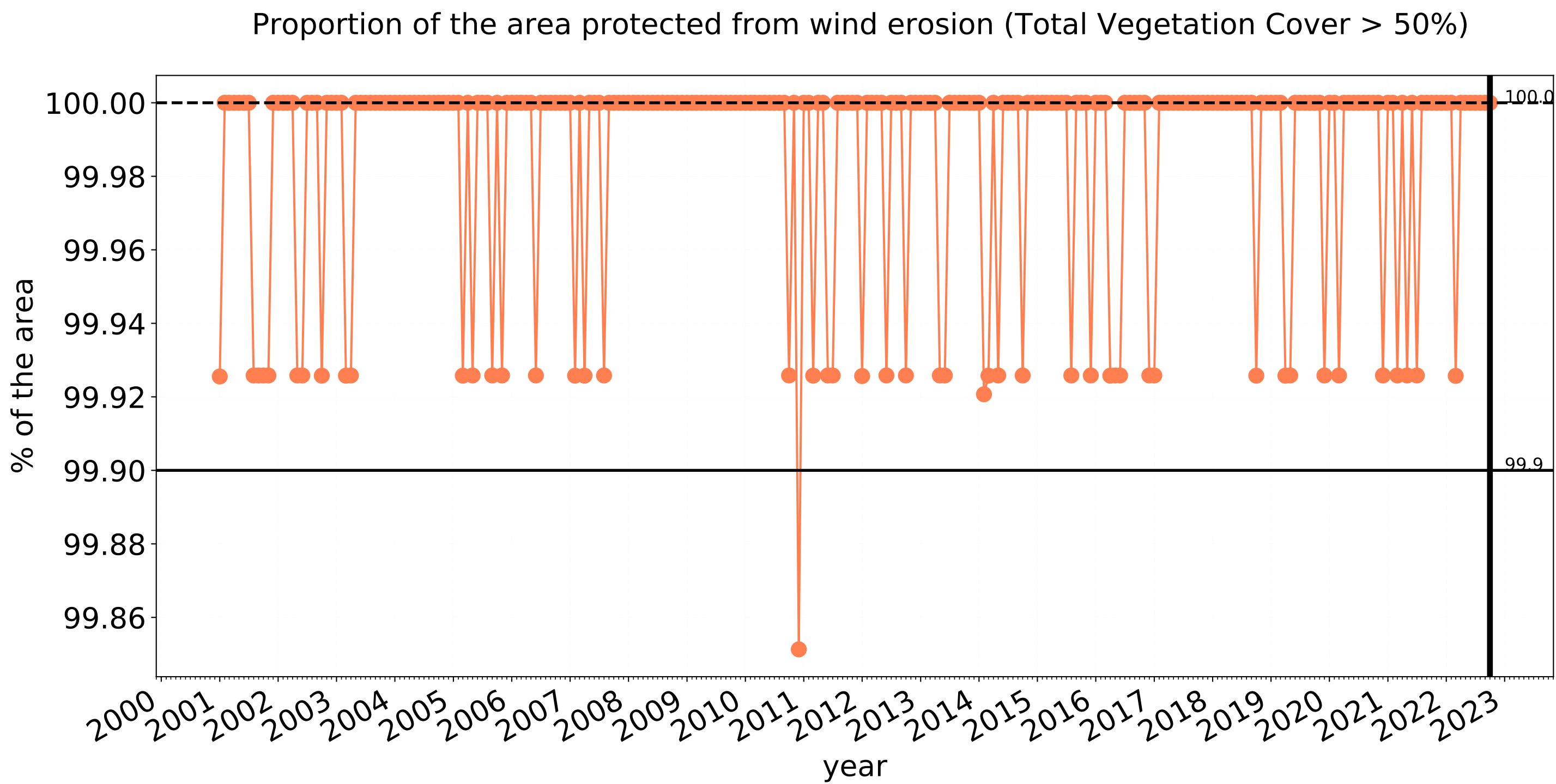
Australian Government

National  
Landcare  
Programme





Agriculture timeseries



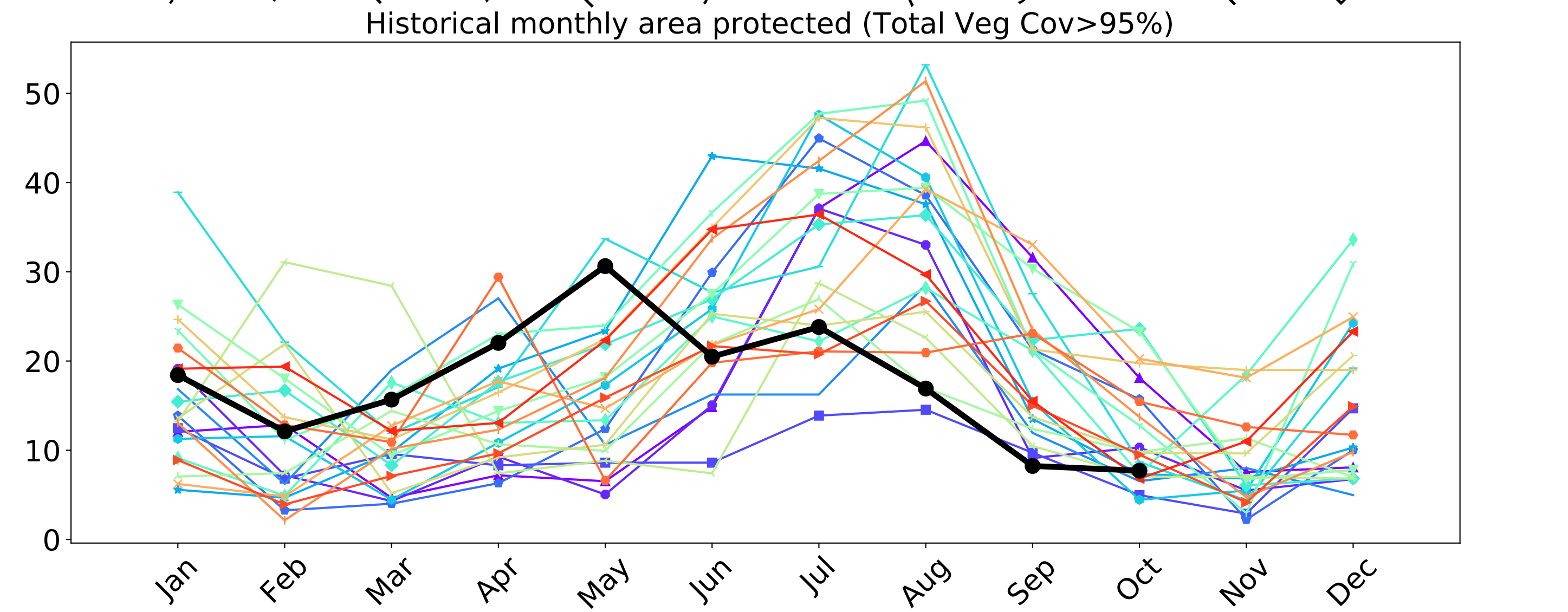
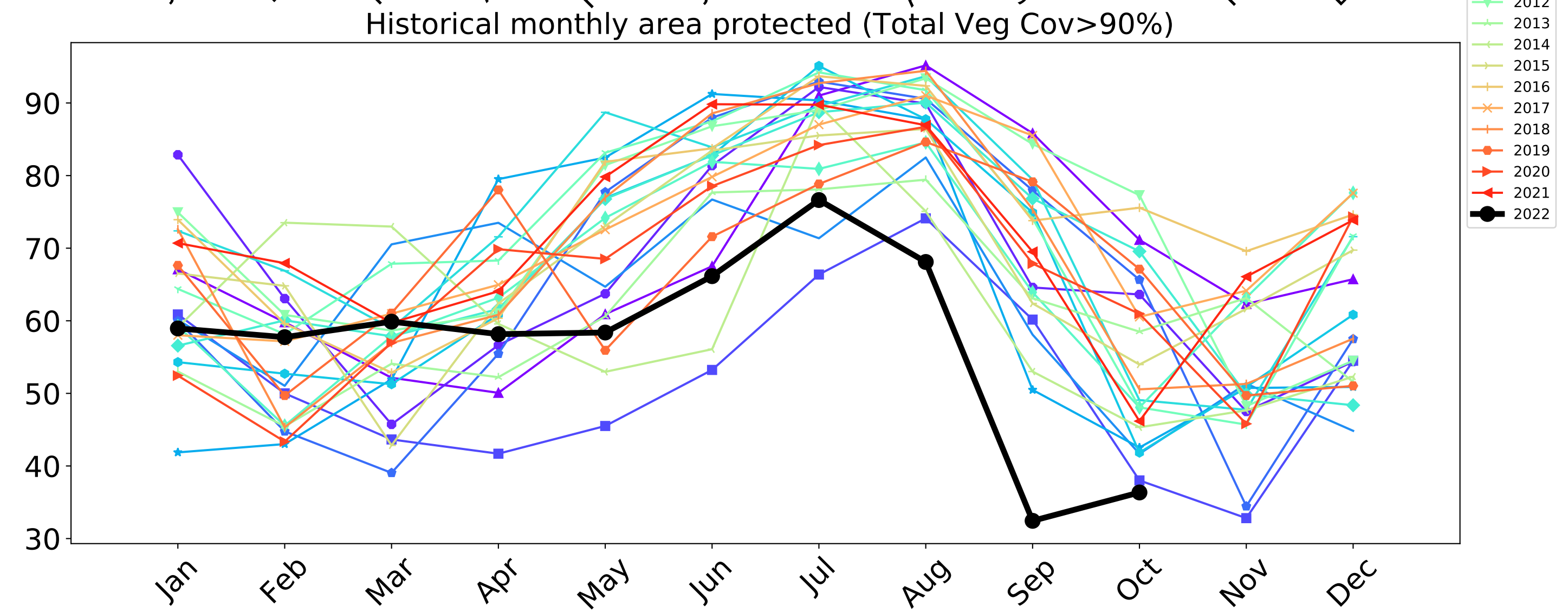
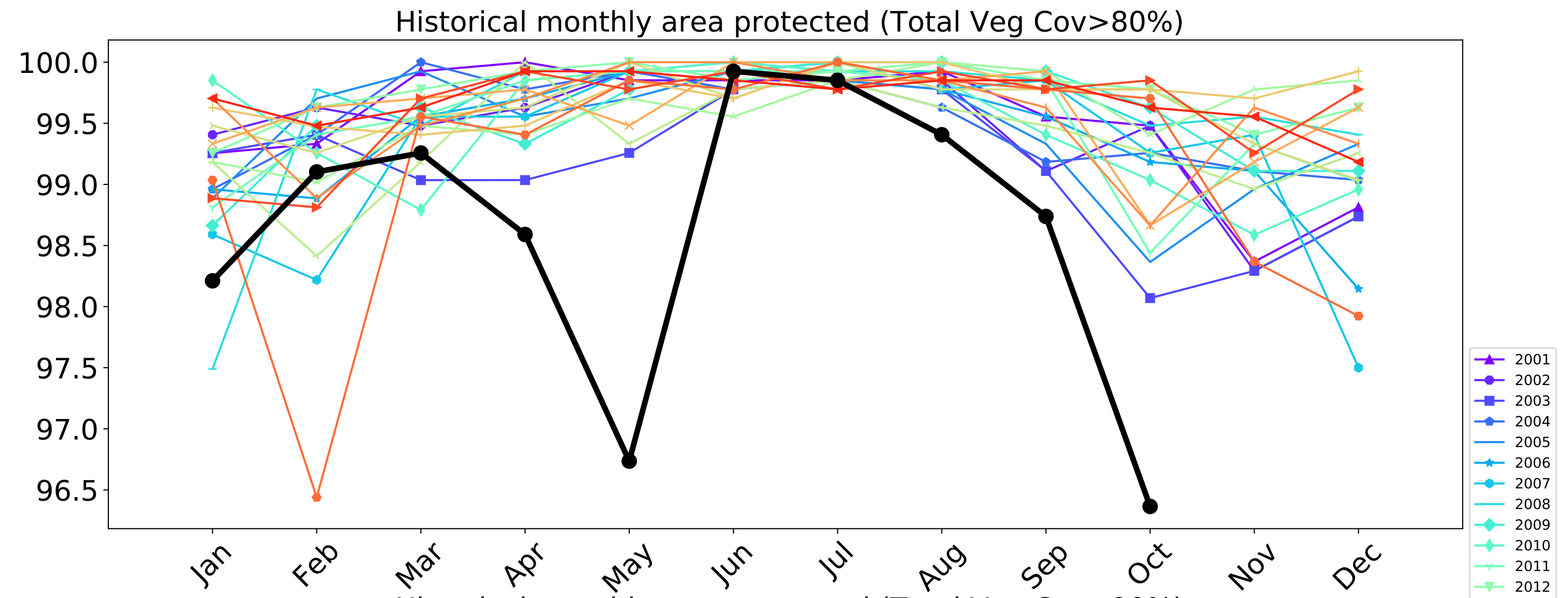
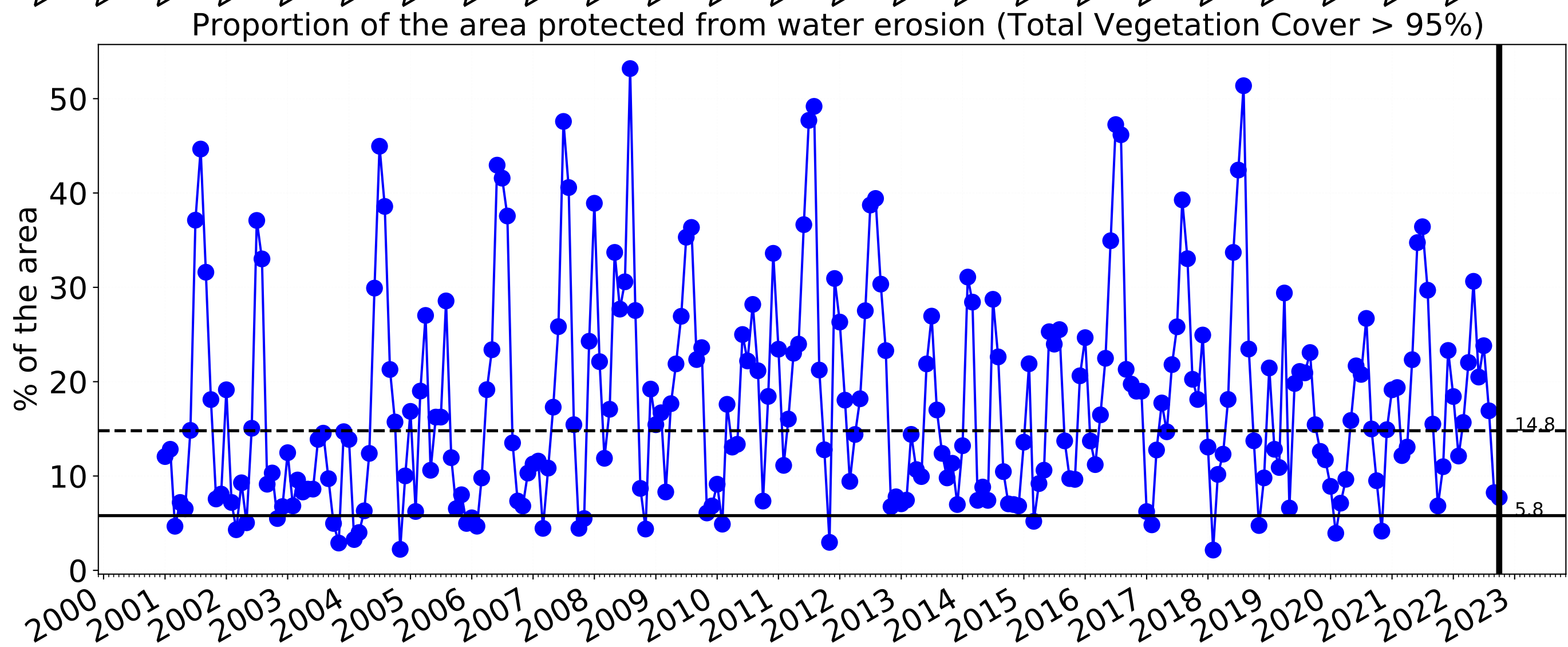
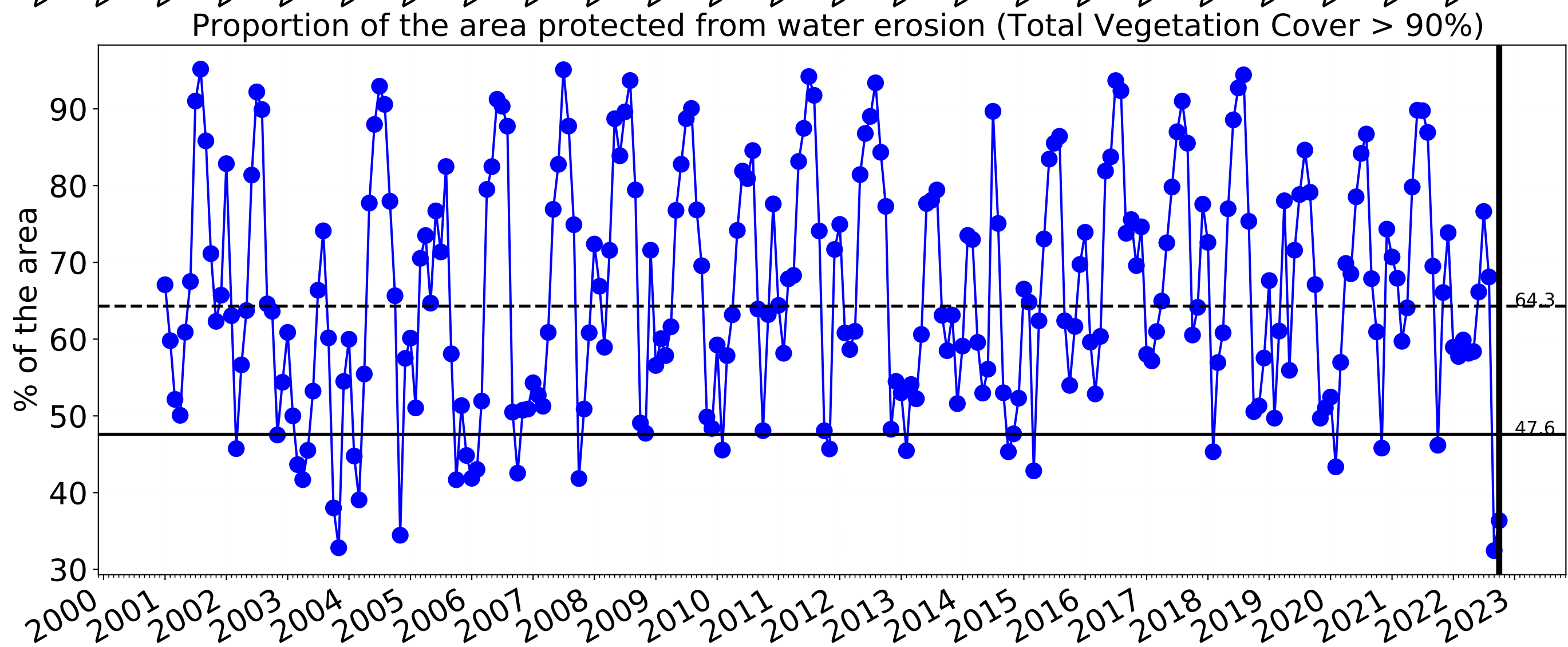
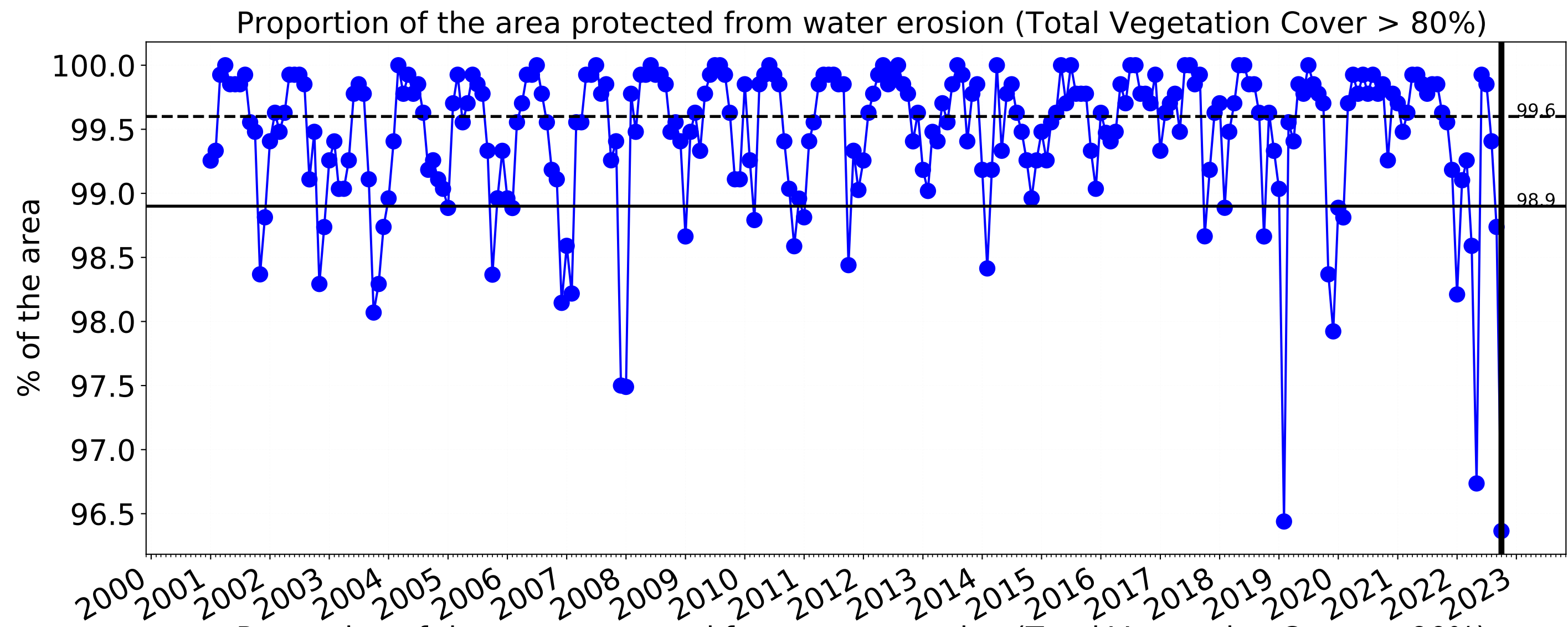
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Landcare  
Programme







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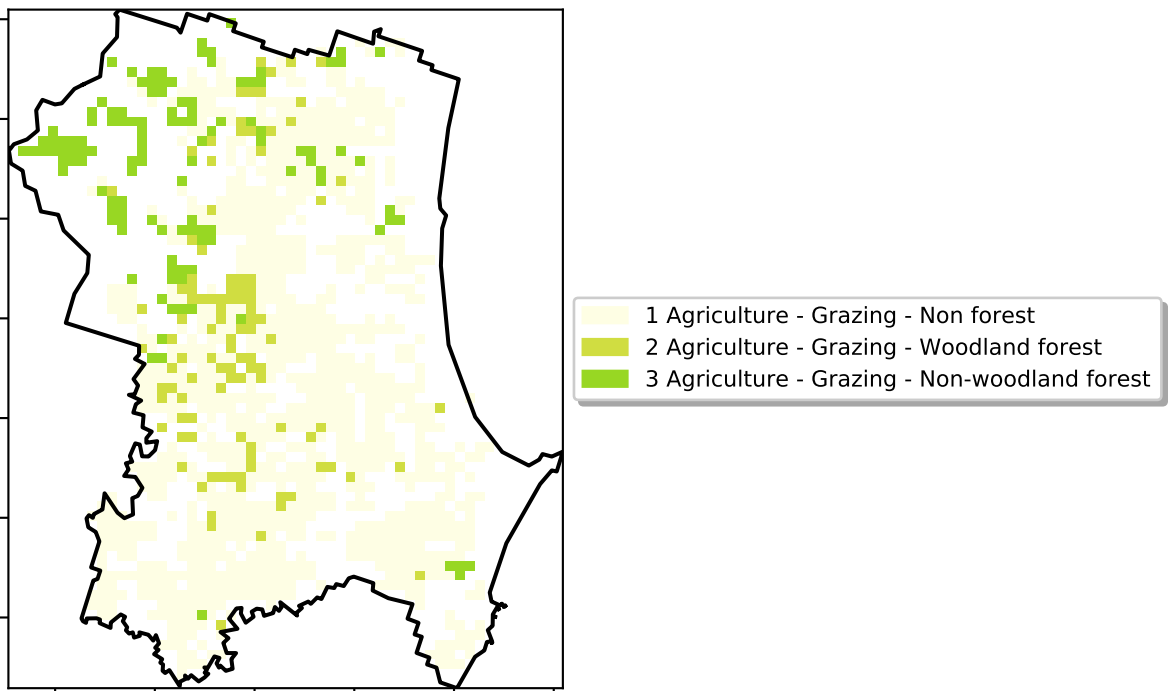
National  
Landcare  
Programme



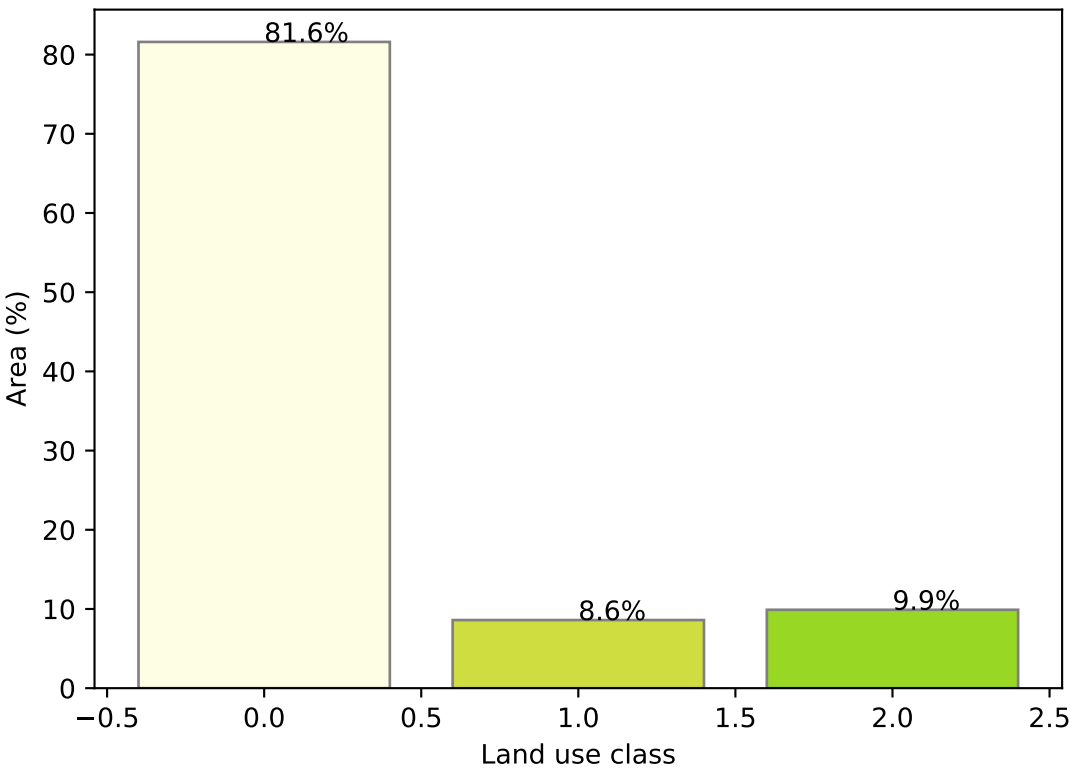


Grazing

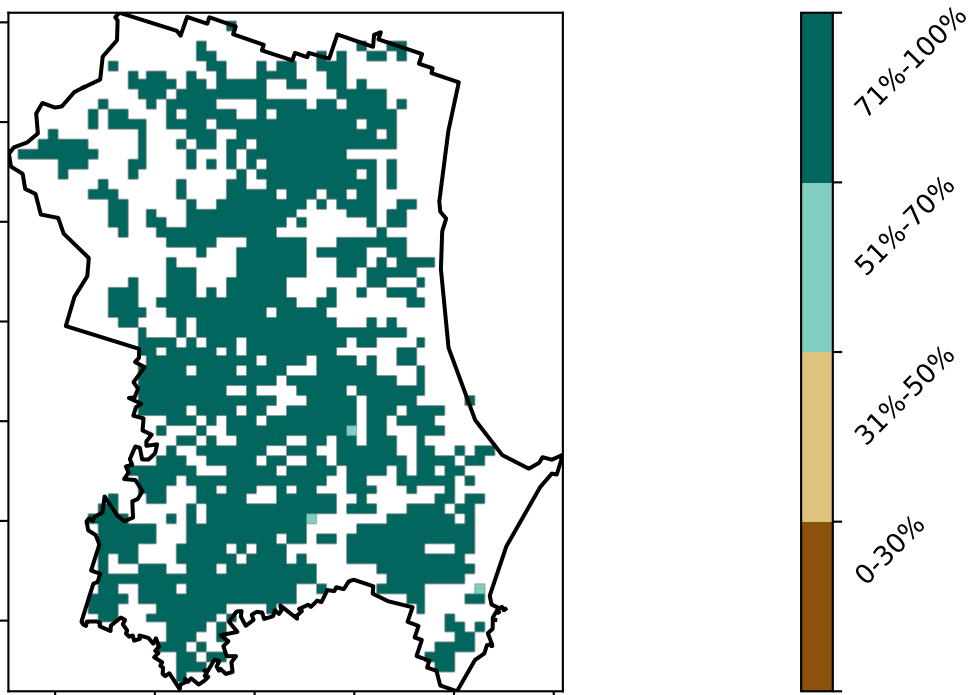
Land use and forest cover



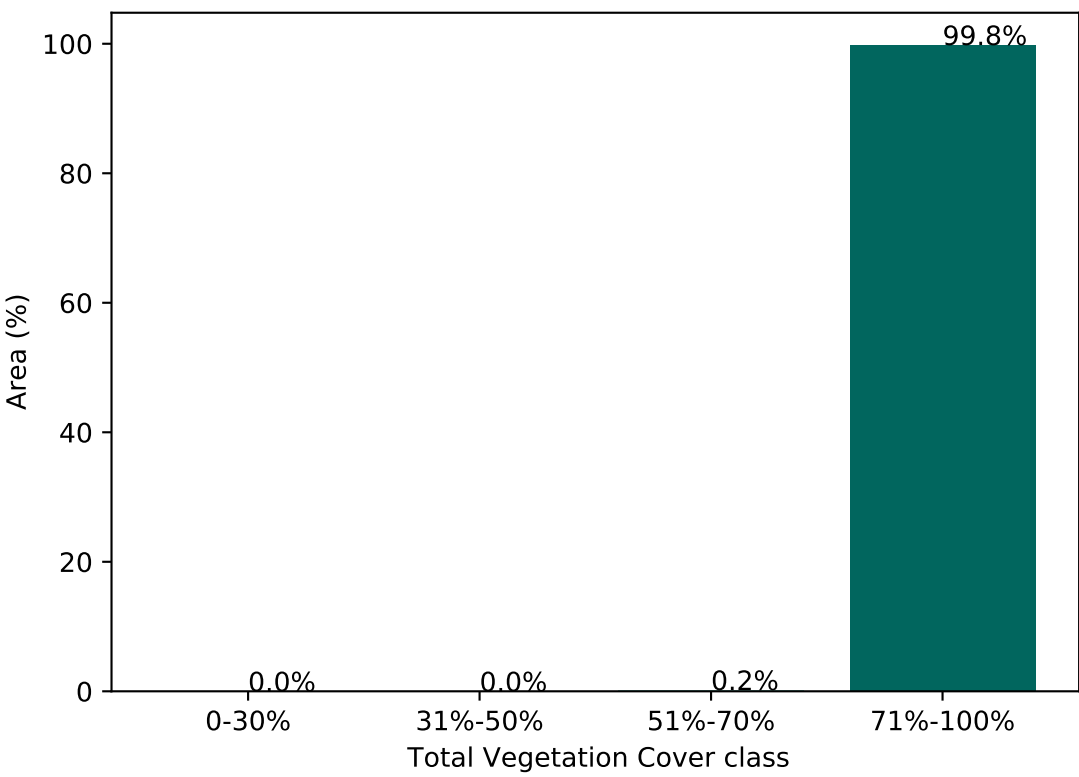
Proportion of each land class in area



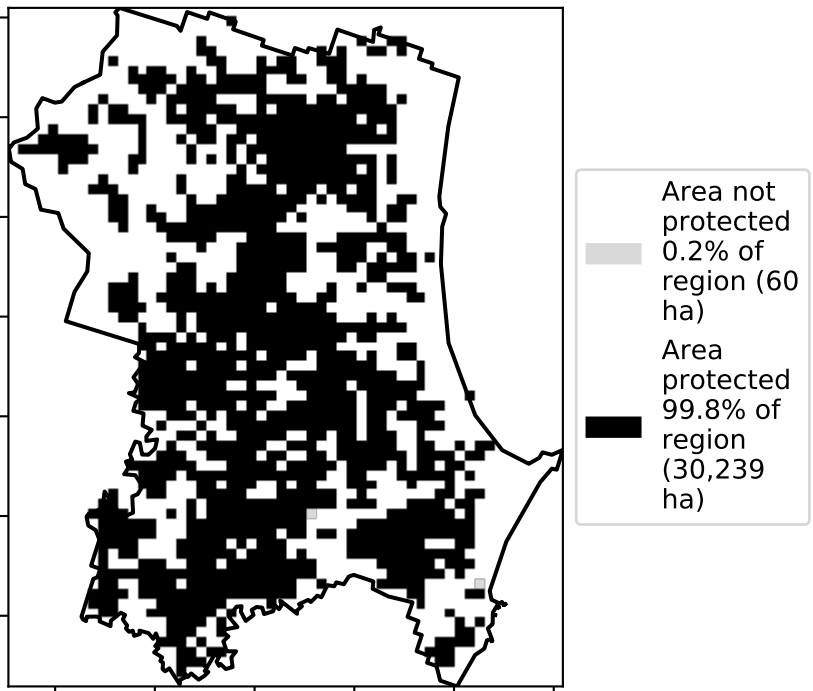
Total Vegetation Cover [%]



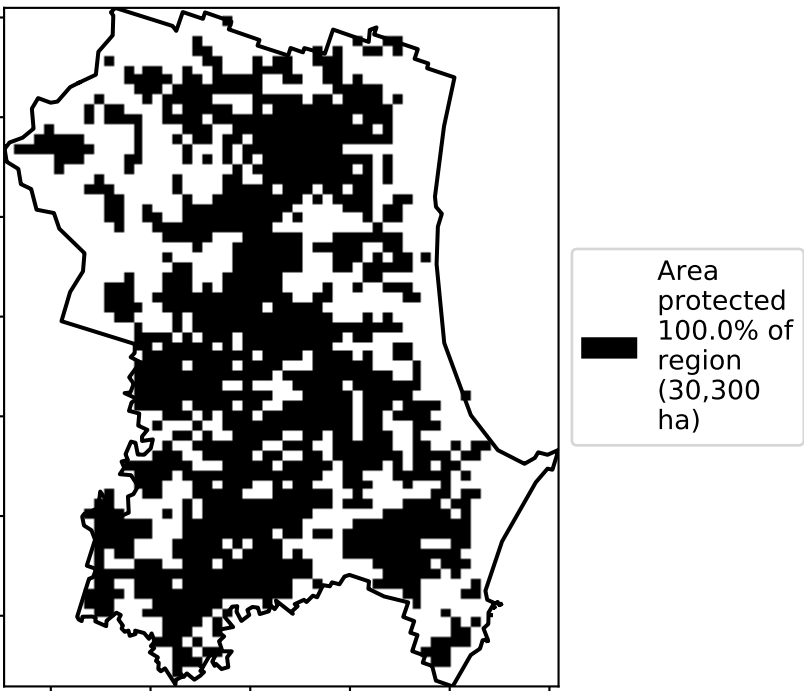
Proportion of vegetation cover class in area



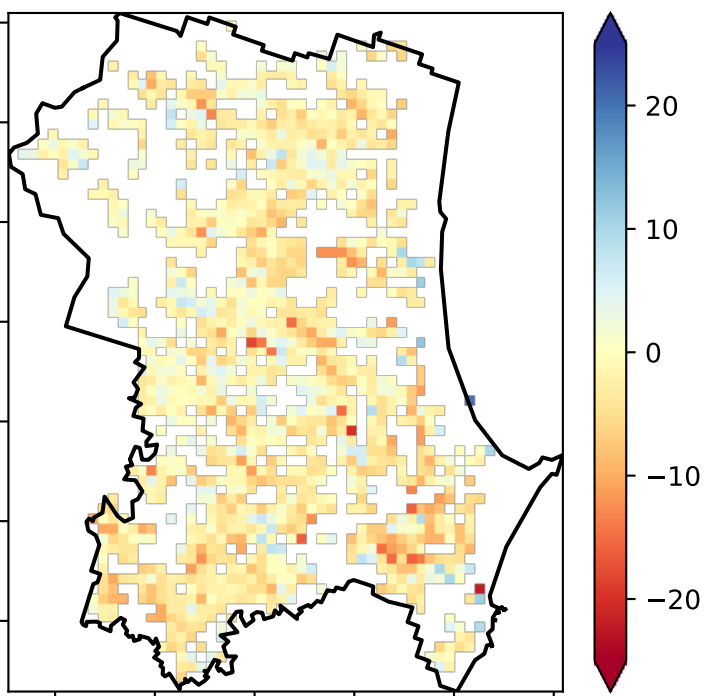
% Area protected from water erosion (>70%)



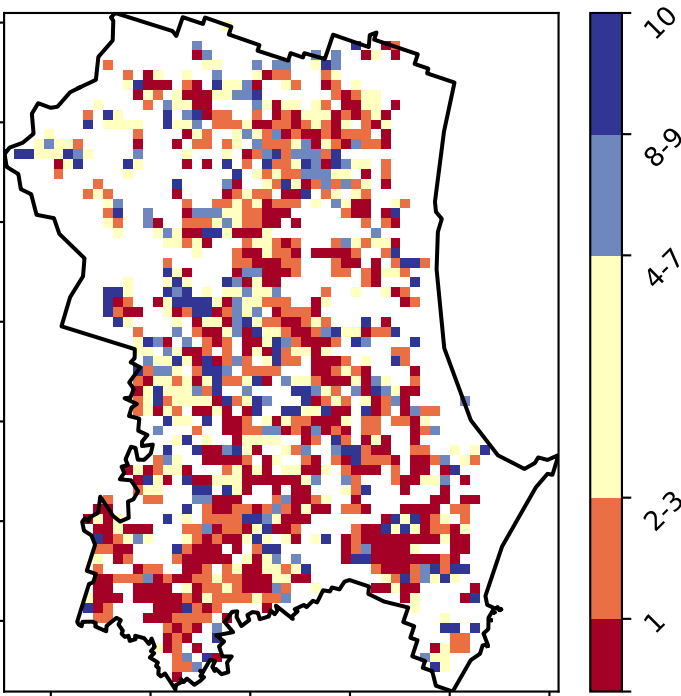
% Area protected from wind erosion (>50%)



Total Vegetation Cover Anomaly [%]



Total Vegetation Cover Decile [%]



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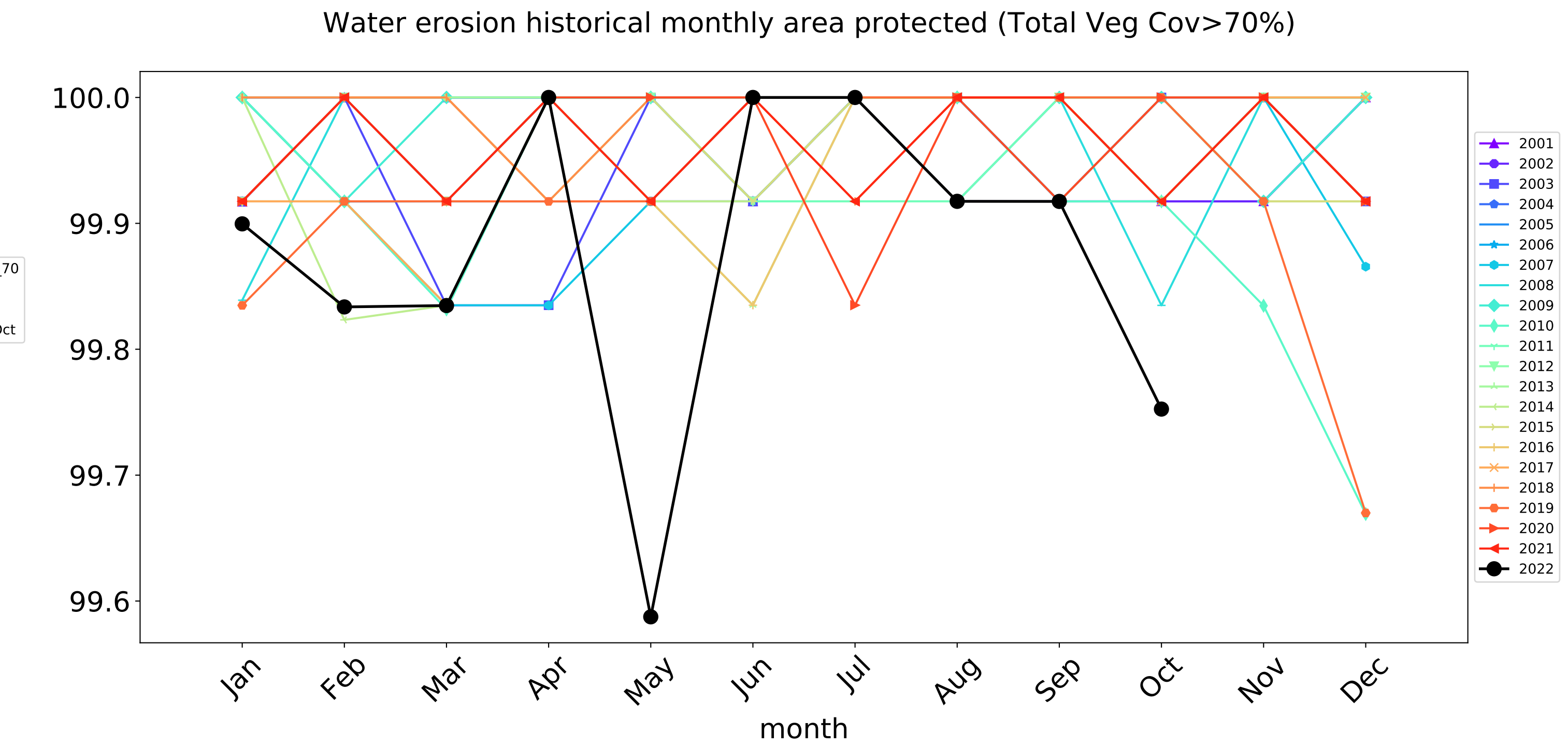
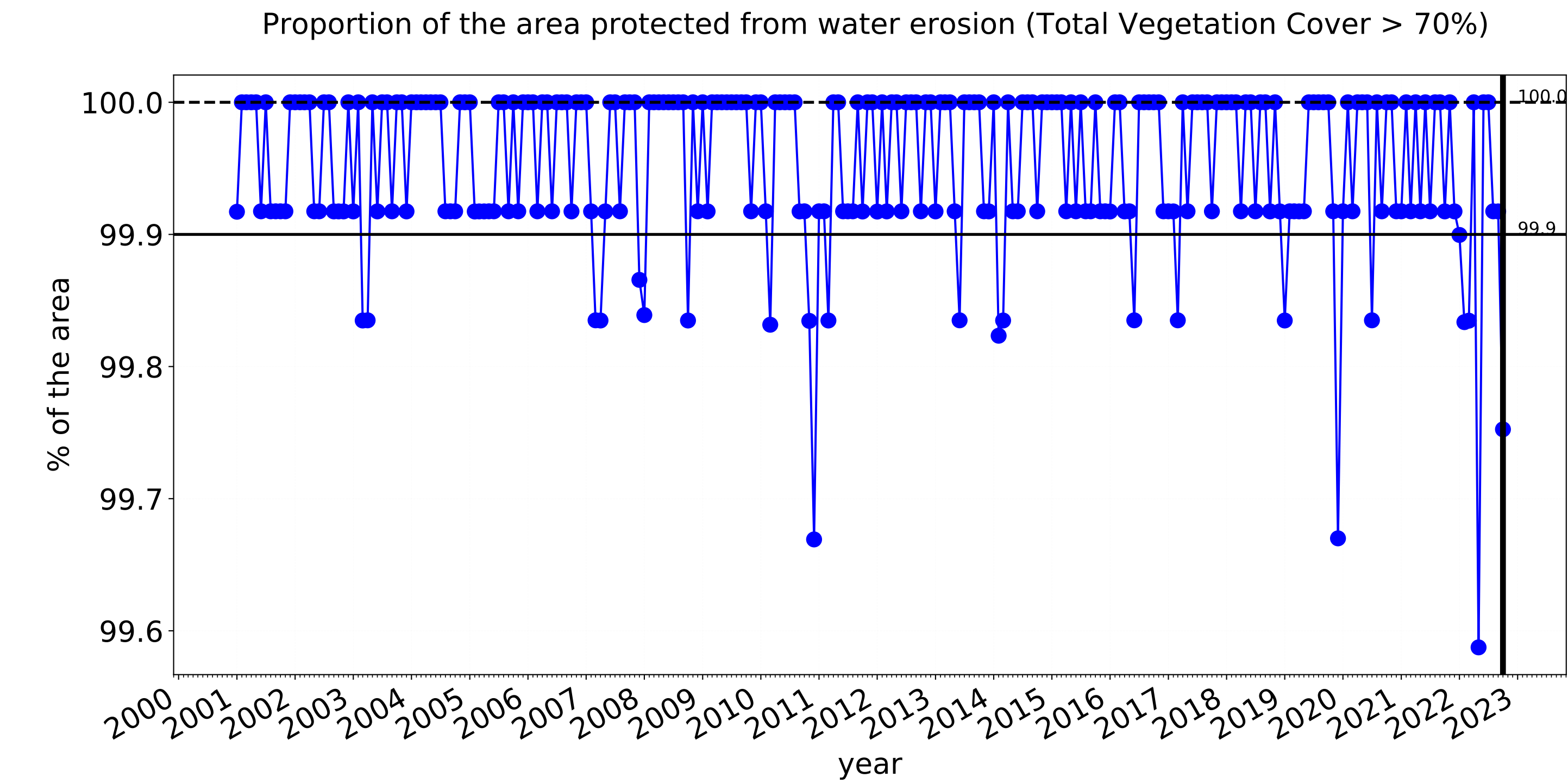
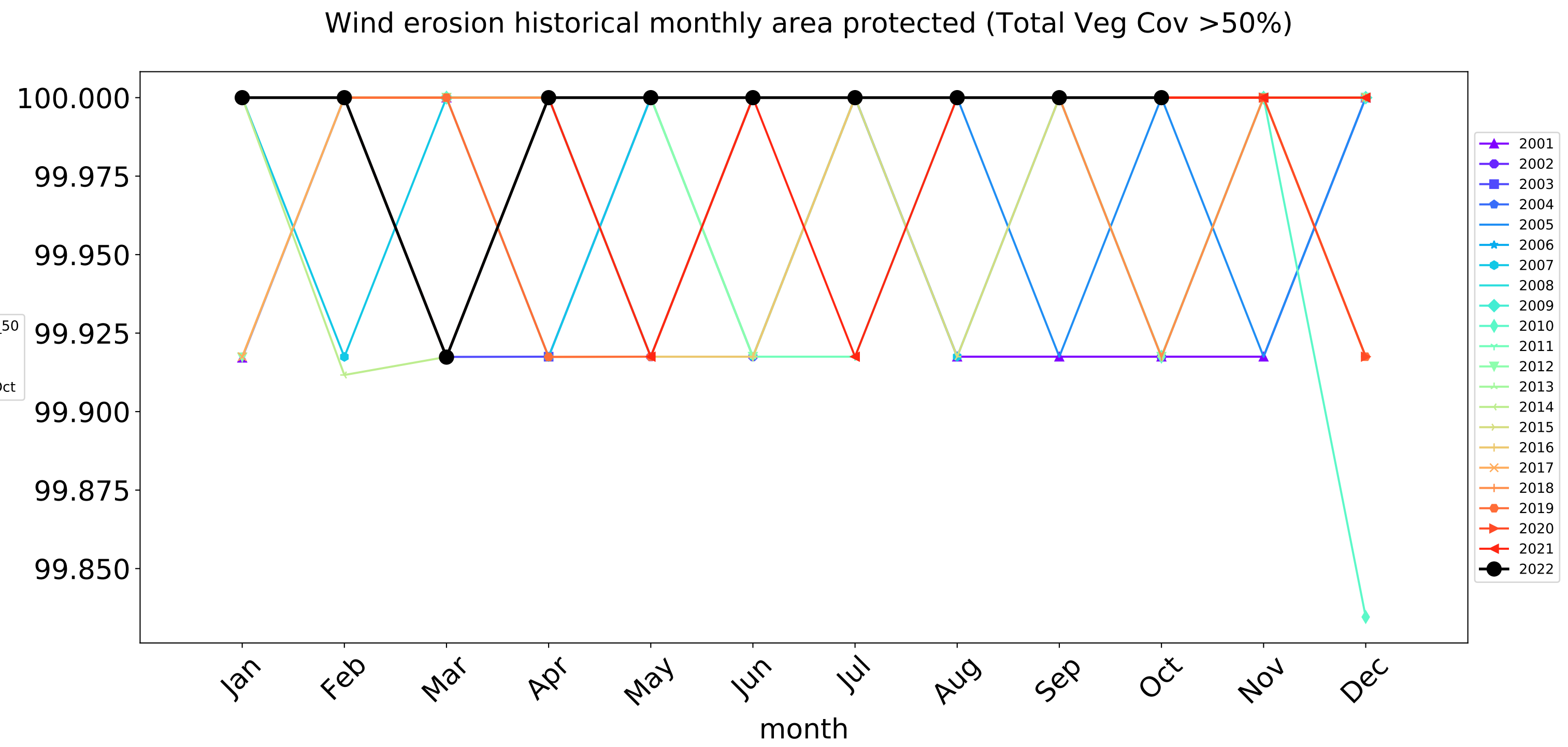
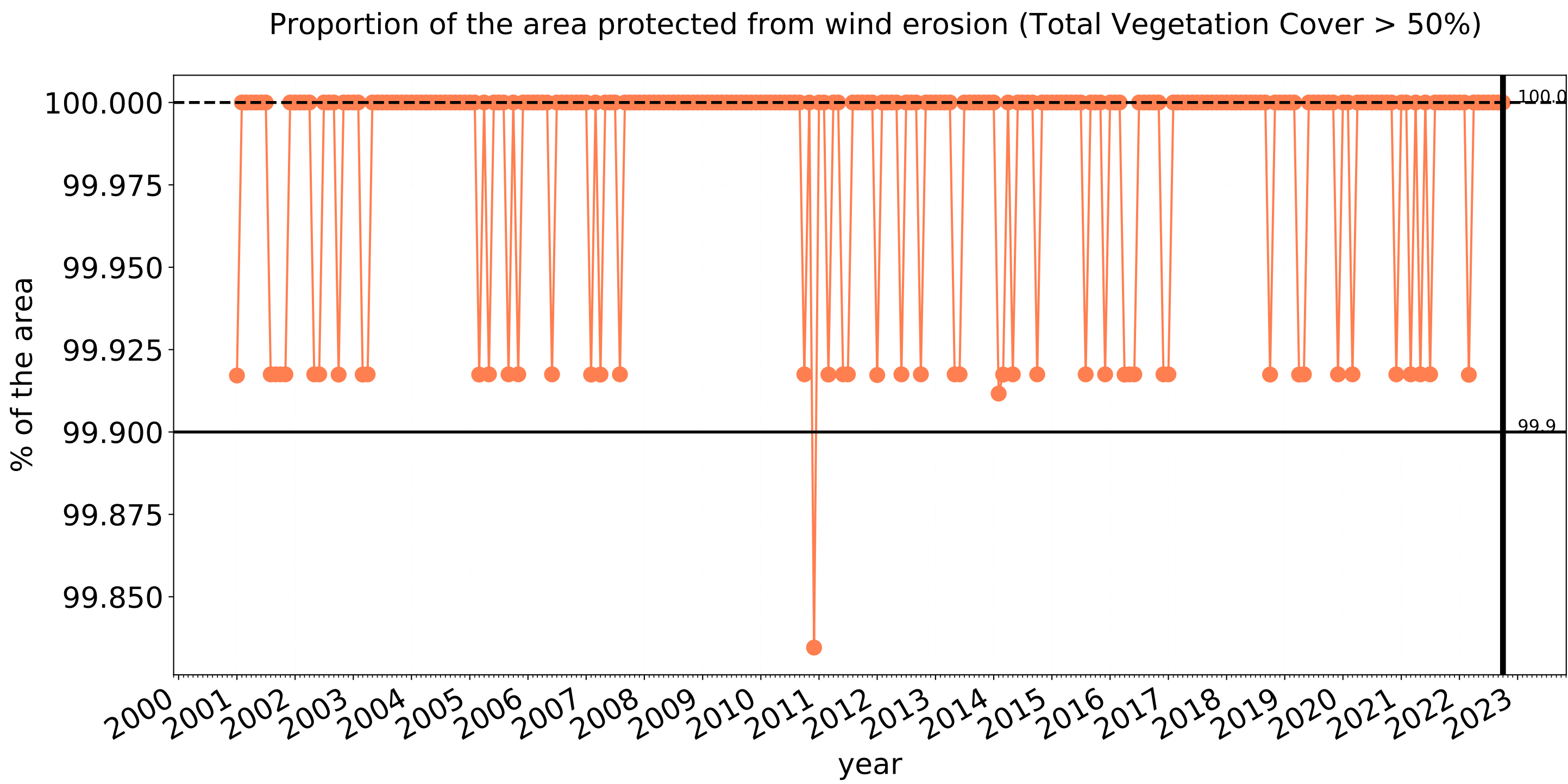
Australian Government

National  
Landcare  
Programme

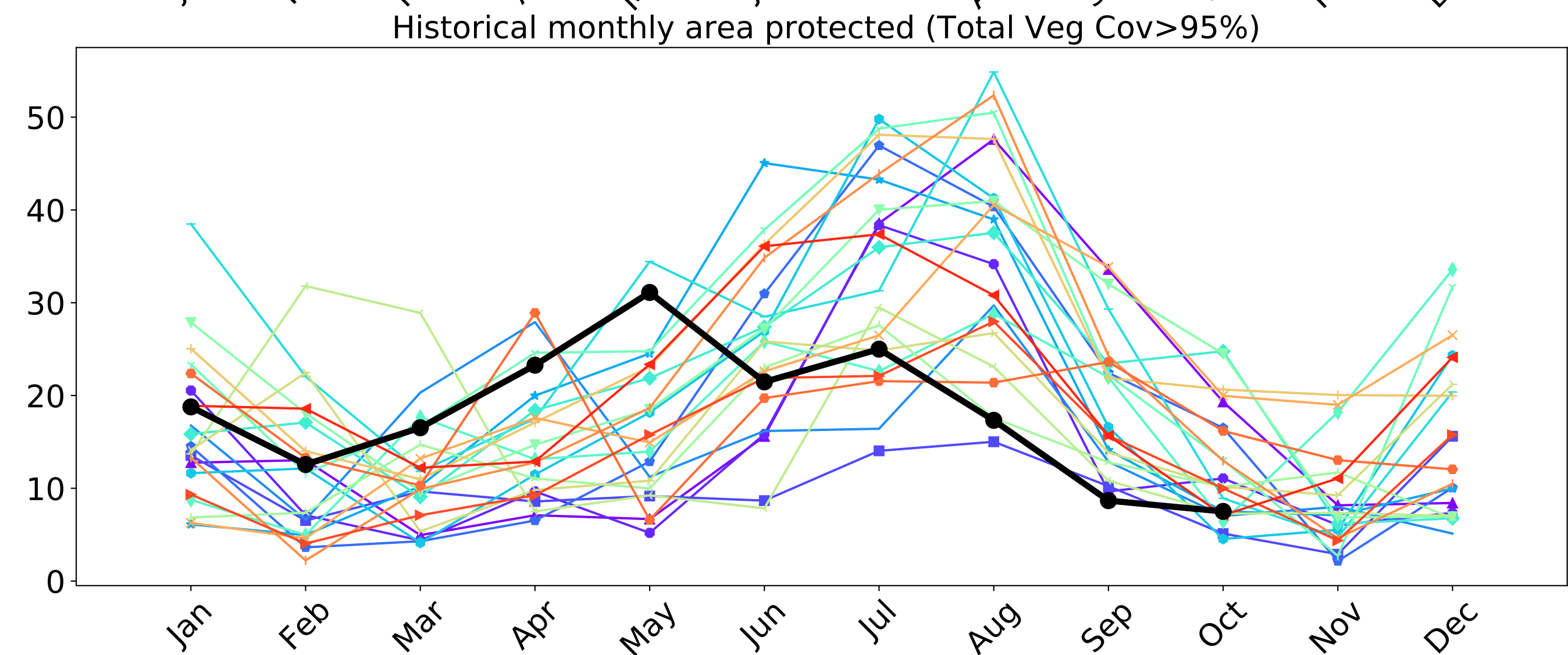
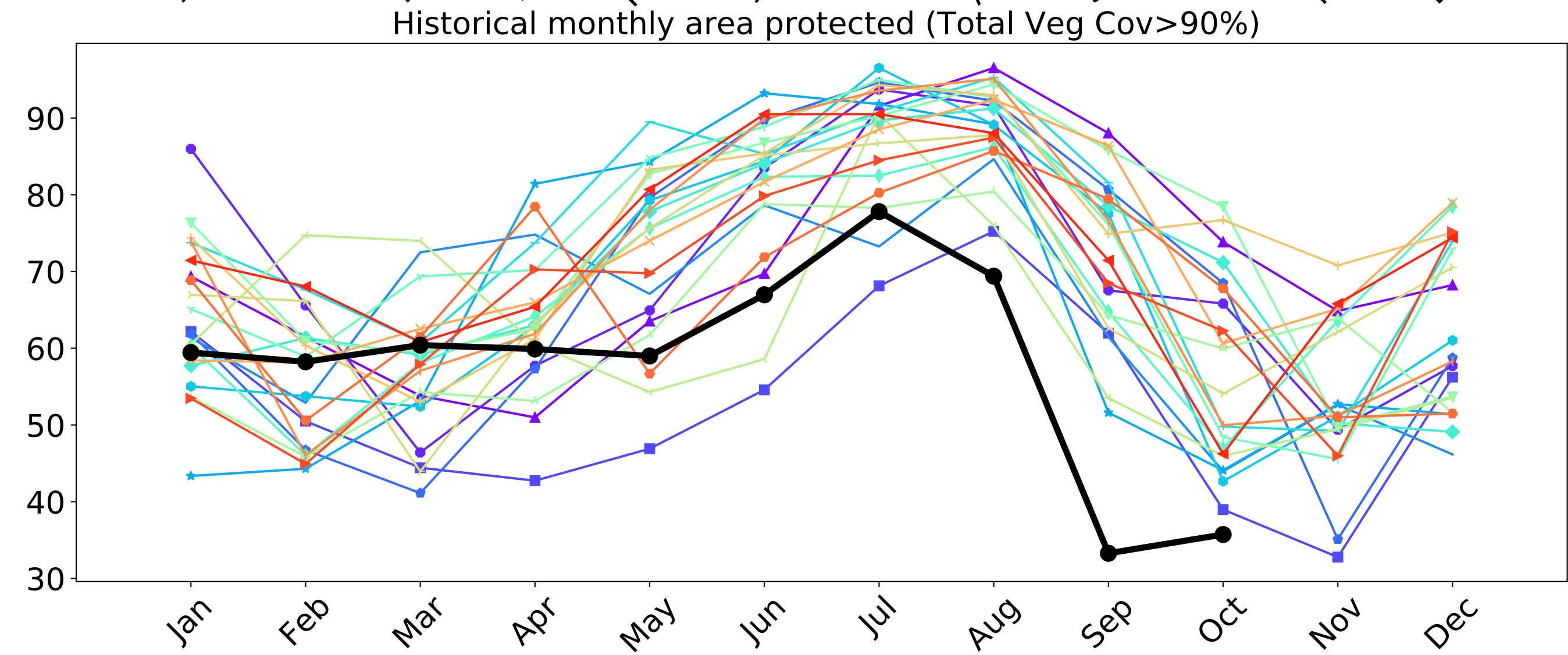
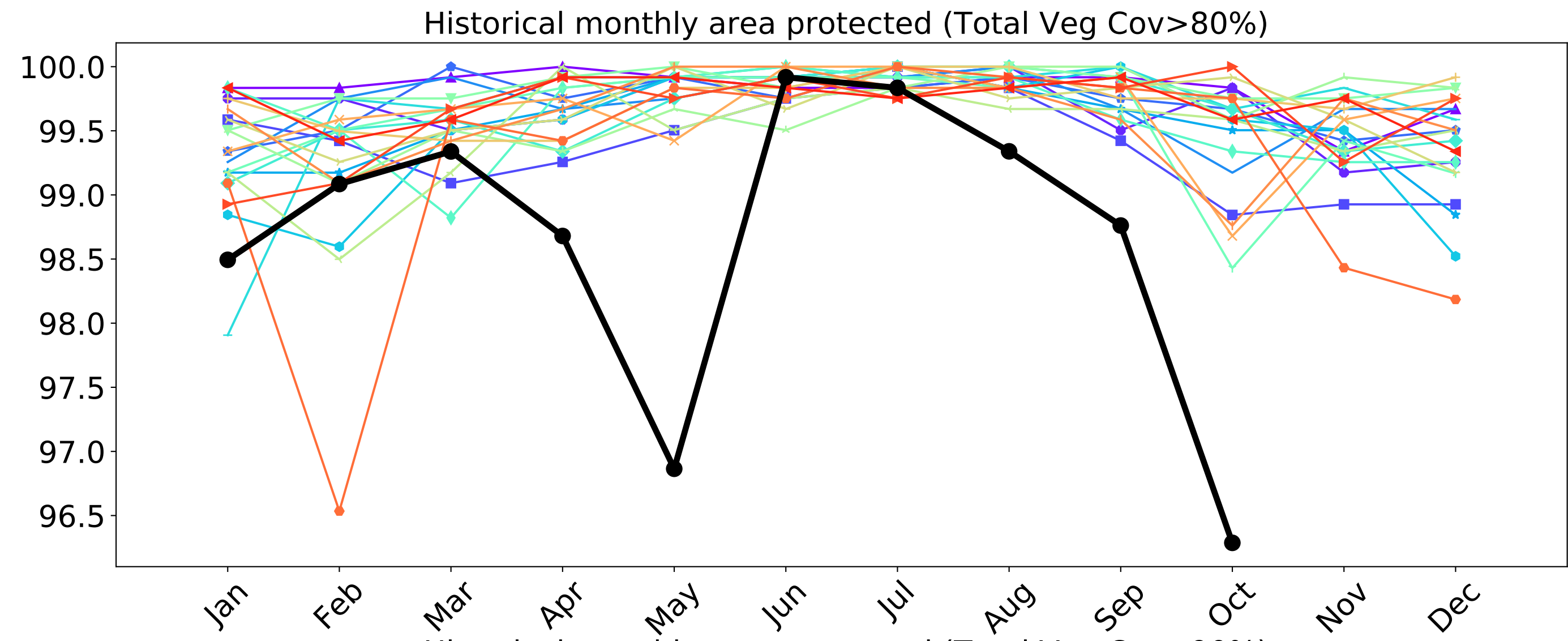
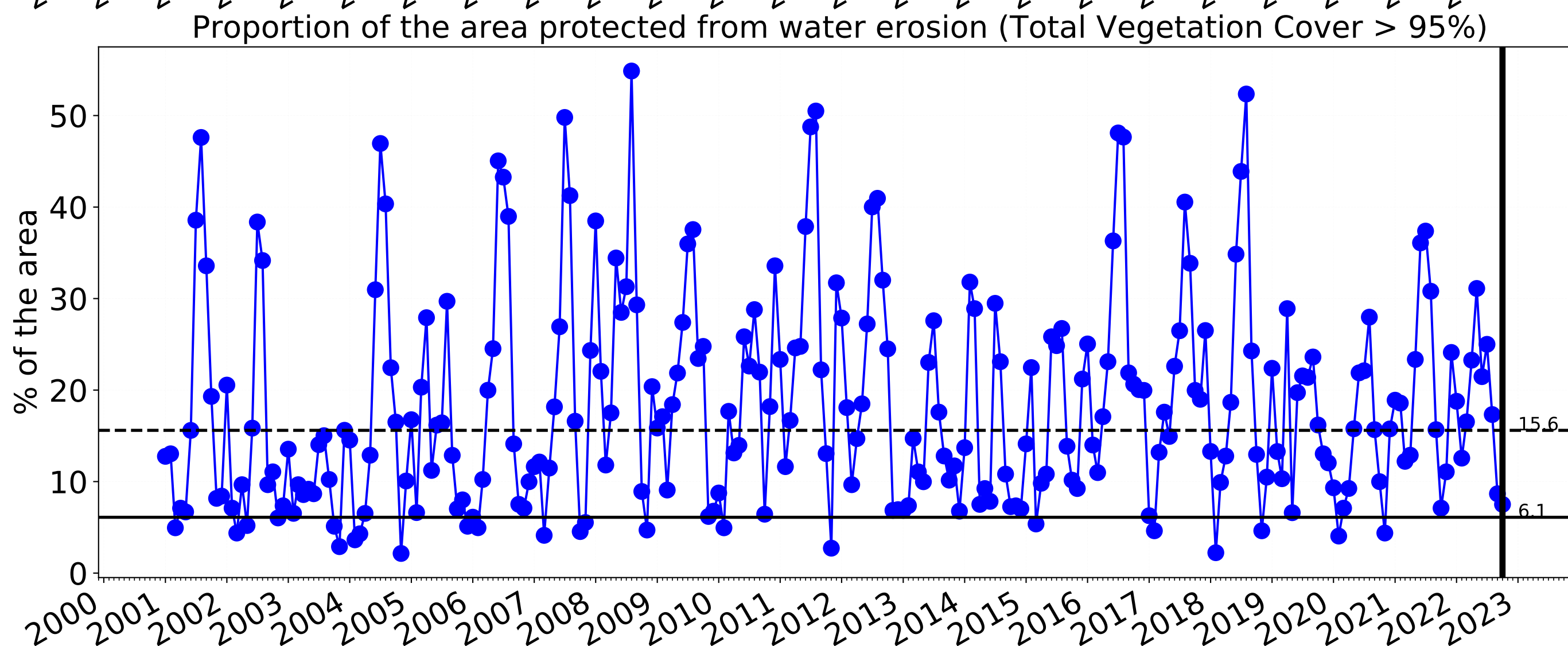
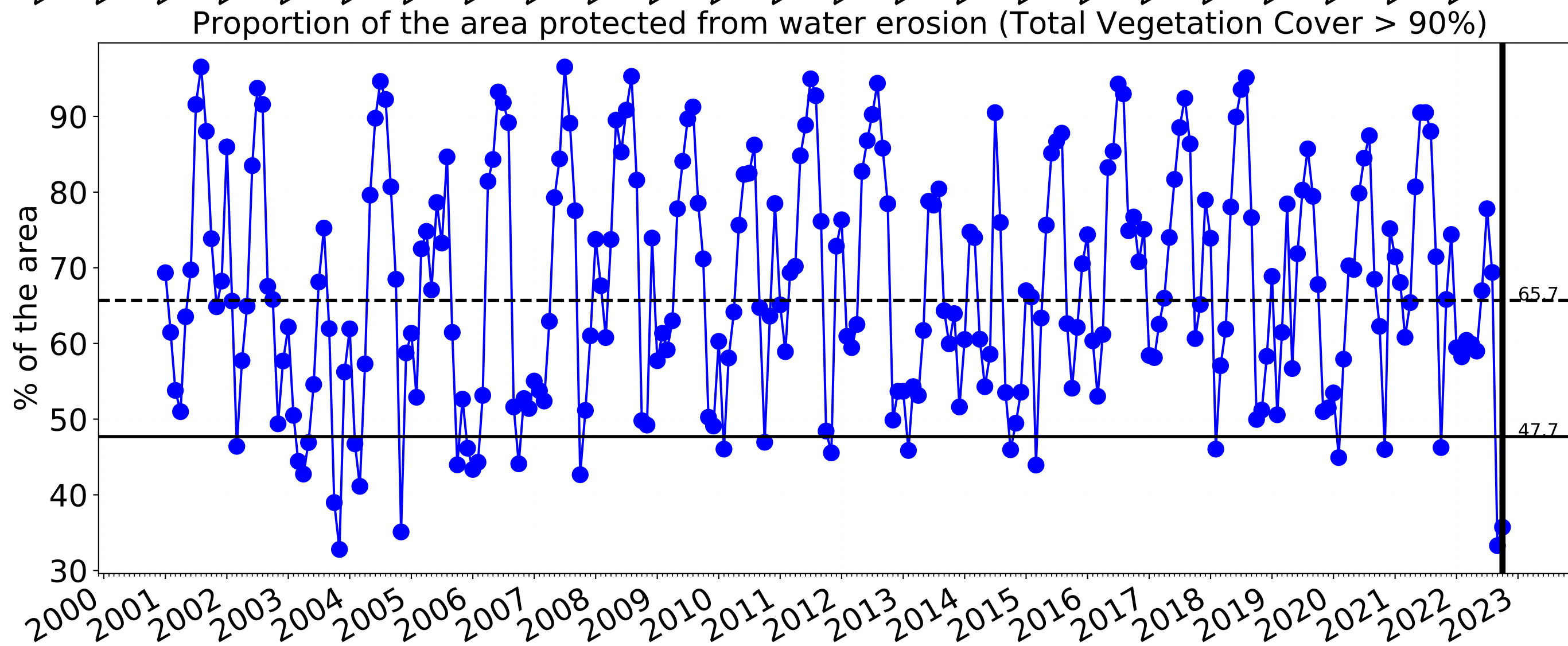
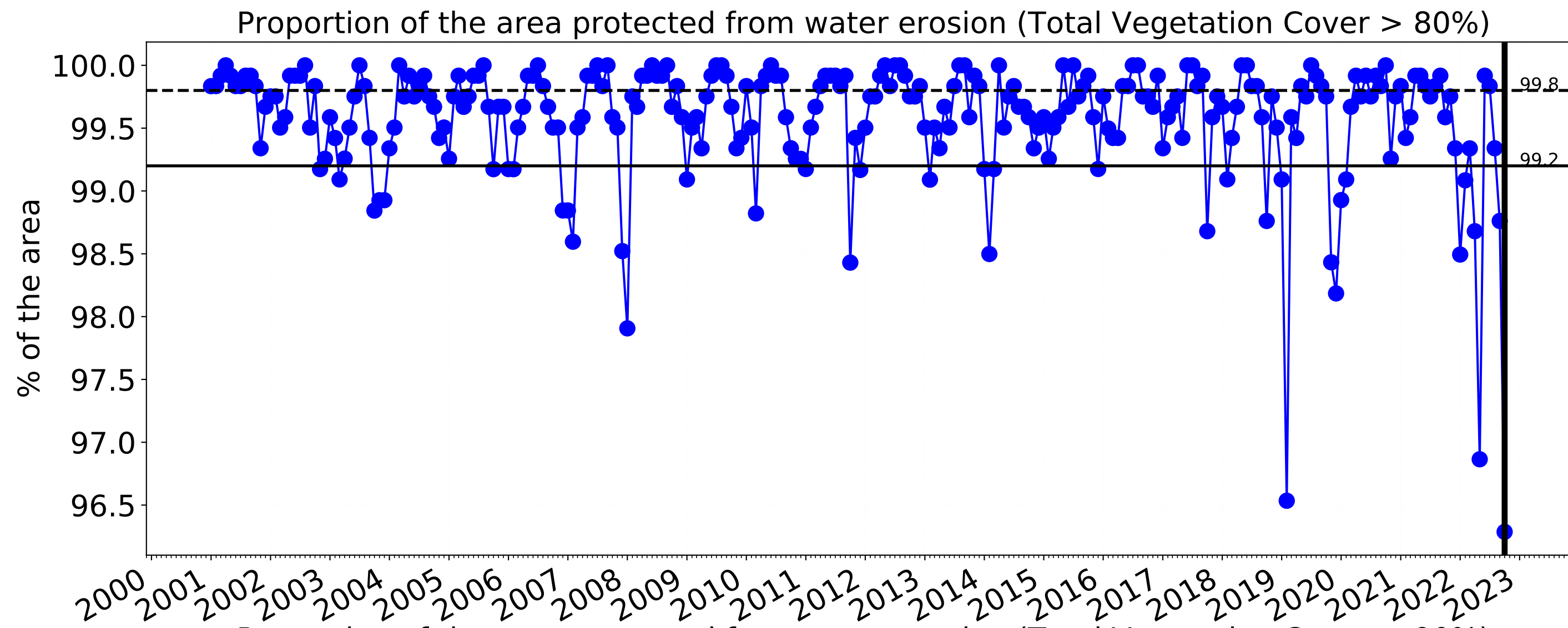




Grazing timeseries







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Ecosystem Research Infrastructure



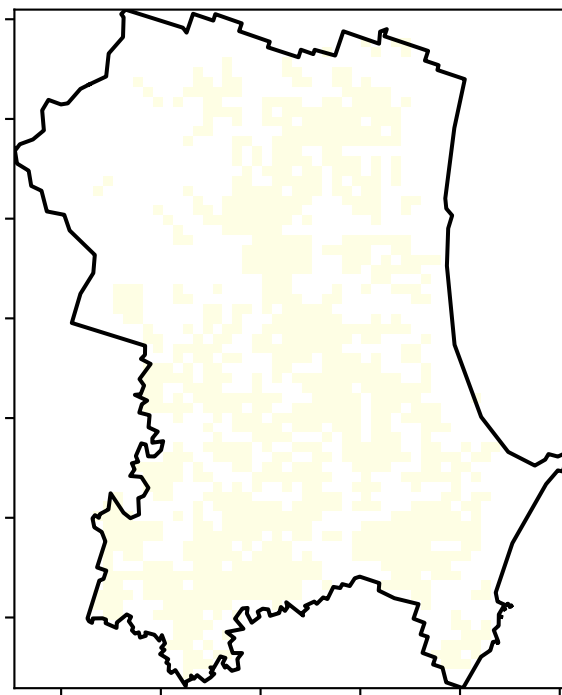
National  
Landcare  
Programme





# Grazing non forest

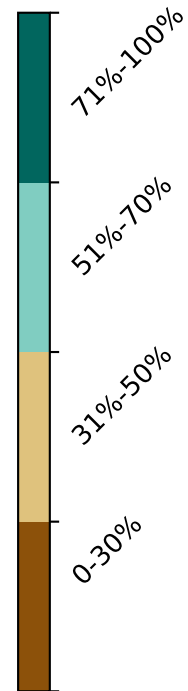
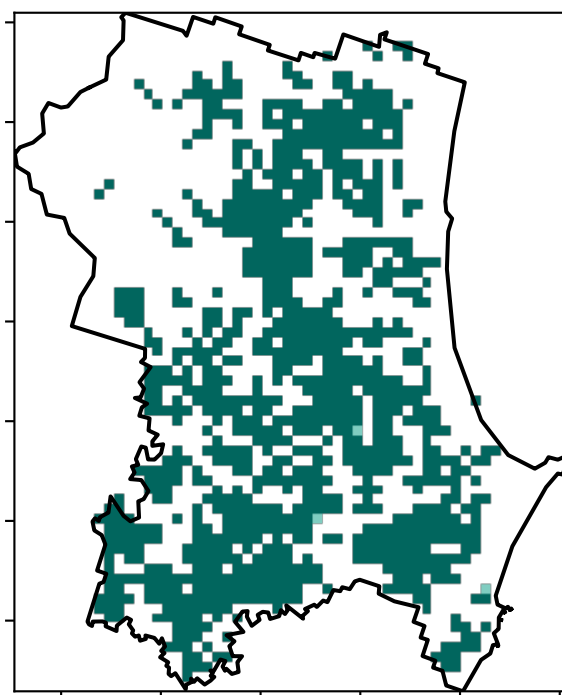
Land use and forest cover



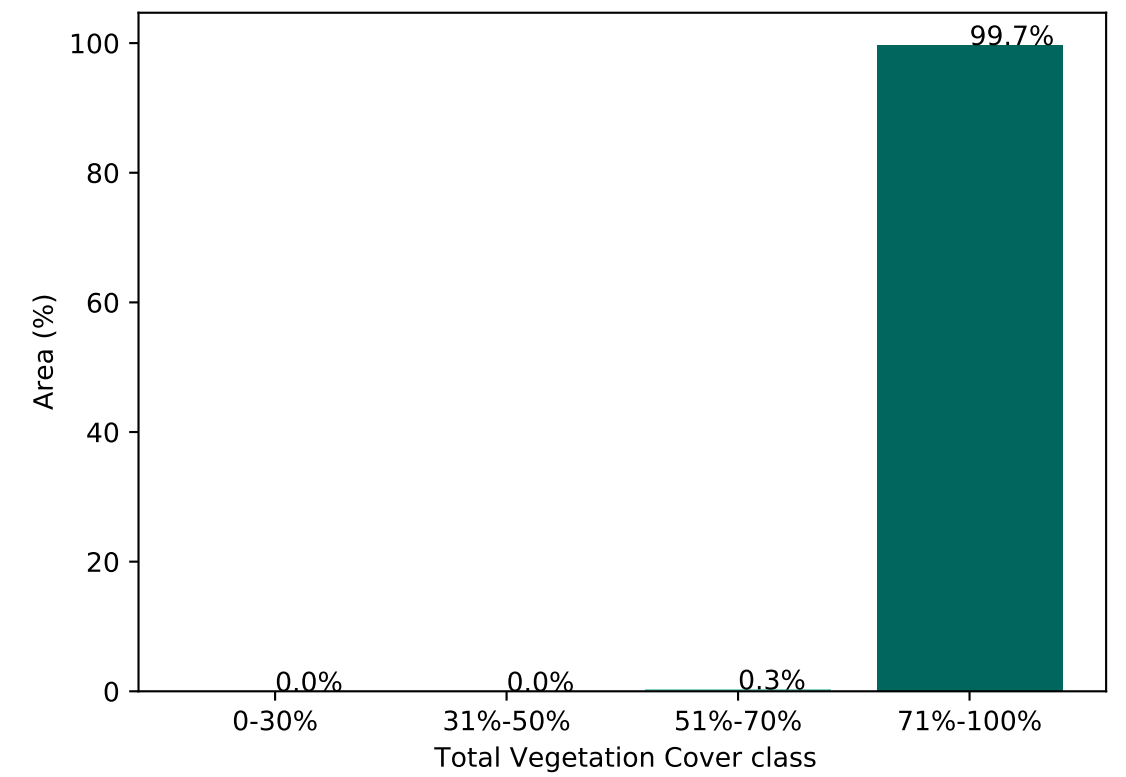
1 Agriculture - Grazing - Non forest

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

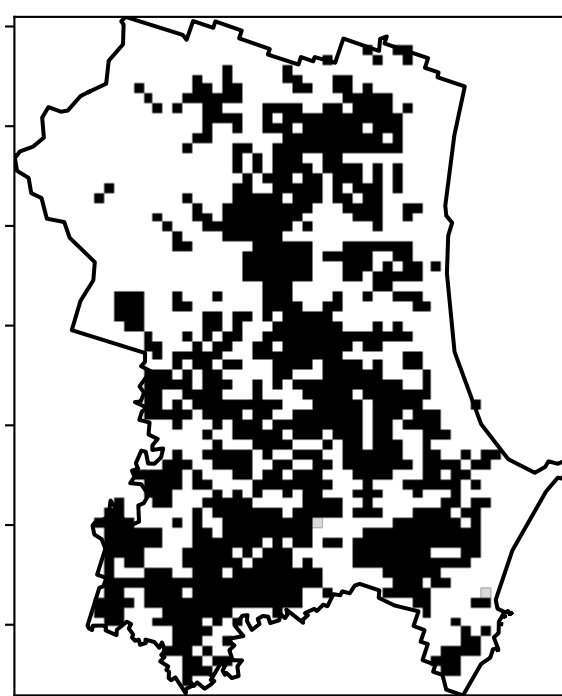
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

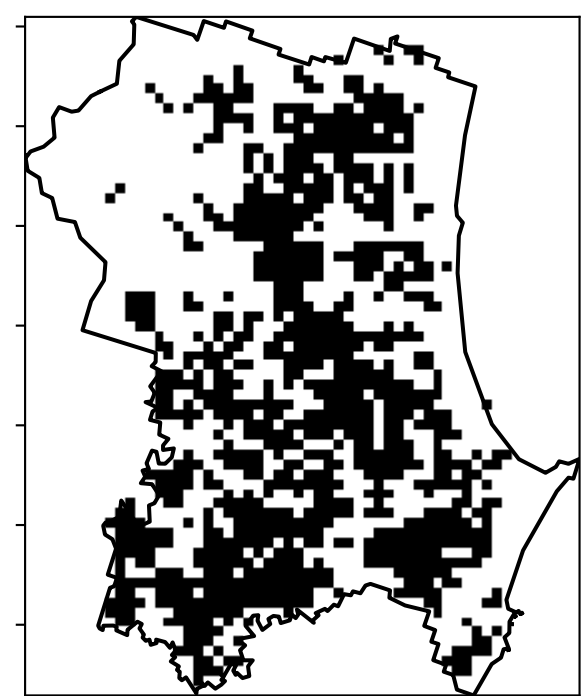


% Area protected from water erosion (>70%)



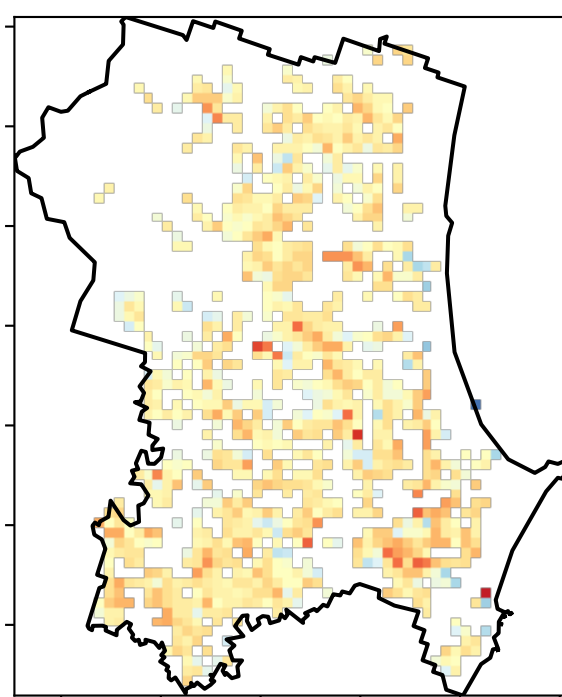
Area not protected  
0.3% of  
region (74  
ha)  
Area protected  
99.7% of  
region  
(24,625  
ha)

% Area protected from wind erosion (>50%)

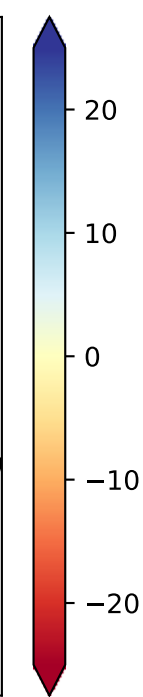


Area  
protected  
100.0% of  
region  
(24,700  
ha)

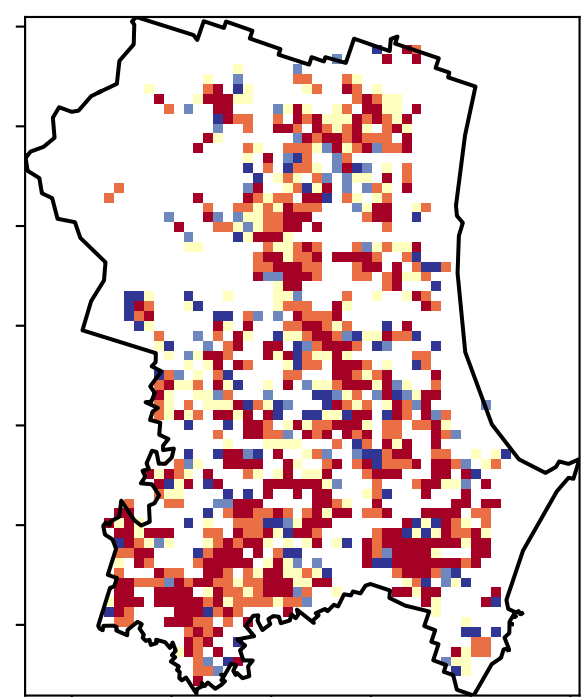
Total Vegetation Cover Anomaly [%]



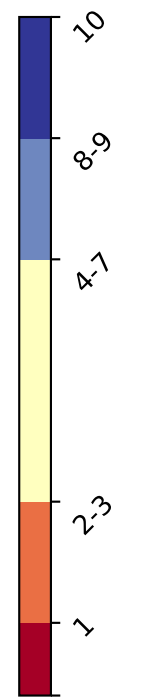
Anomaly show how  
many percentage  
points each  
pixel is from  
the mean. That  
is, red pixels  
are about 20%  
lower than the  
mean of that  
pixel. The mean  
is only for the  
month of the map  
using baseline  
from 2001 to  
2019.



Total Vegetation Cover Decile [%]



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.



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Ecosystem Research Infrastructure



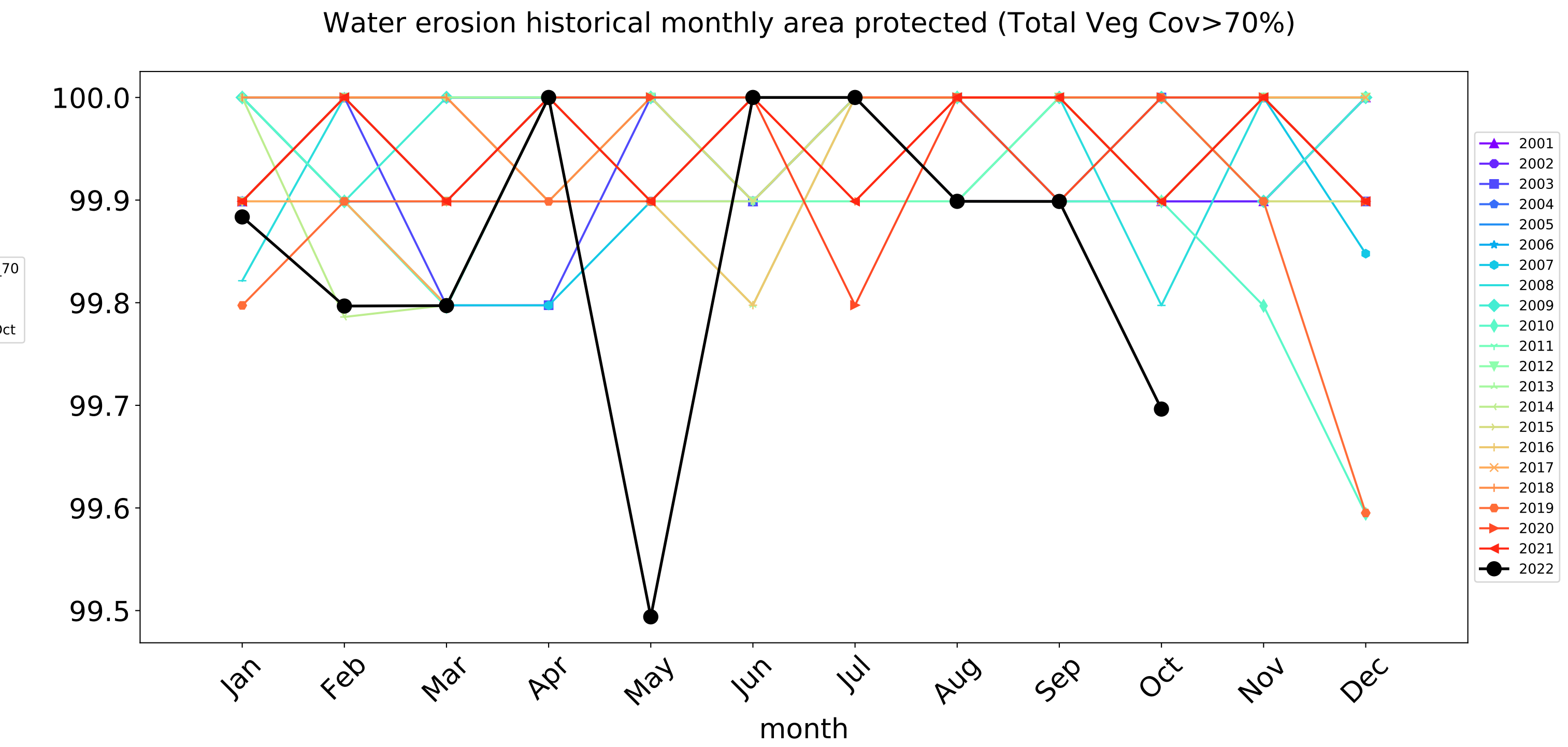
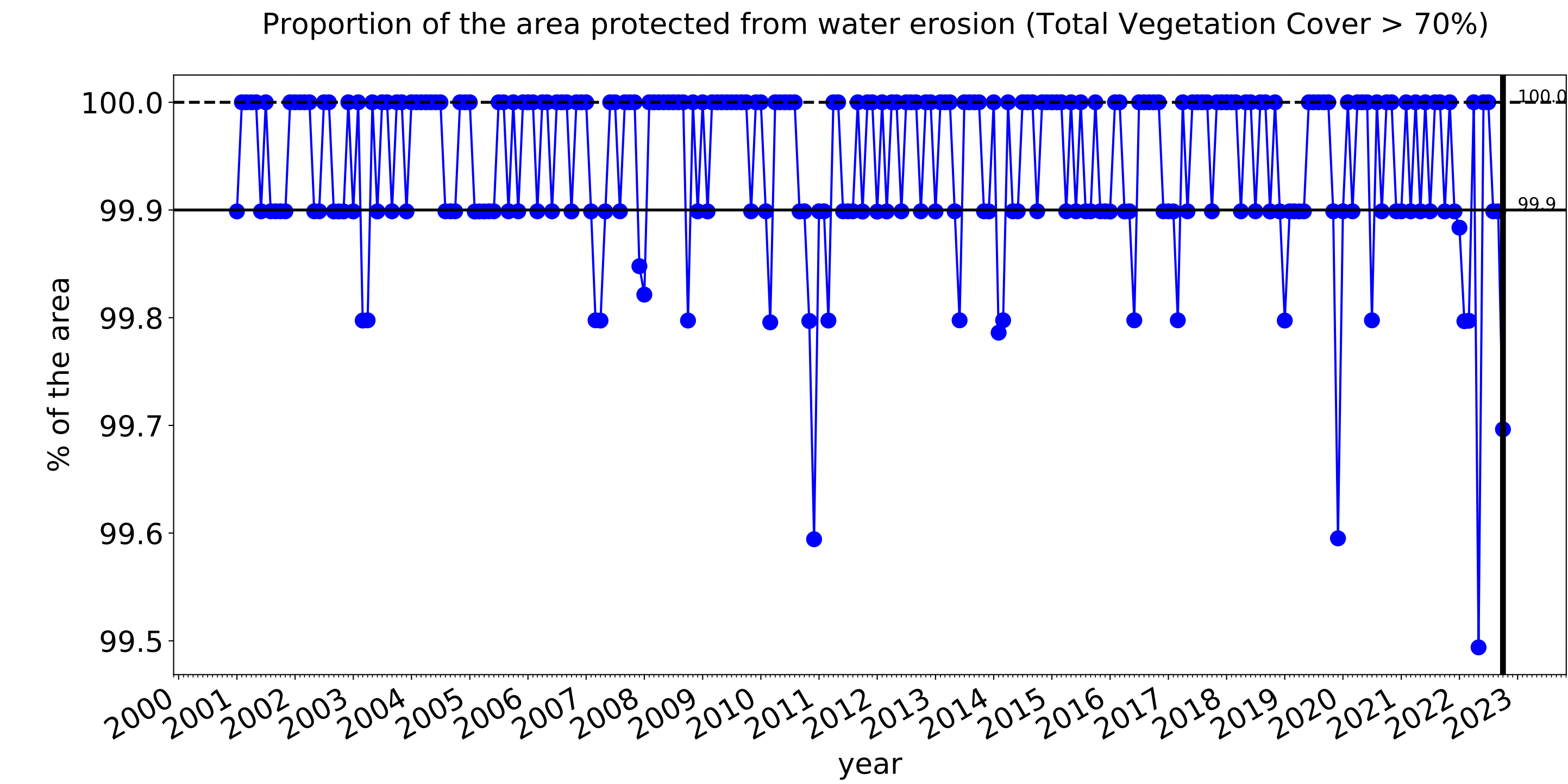
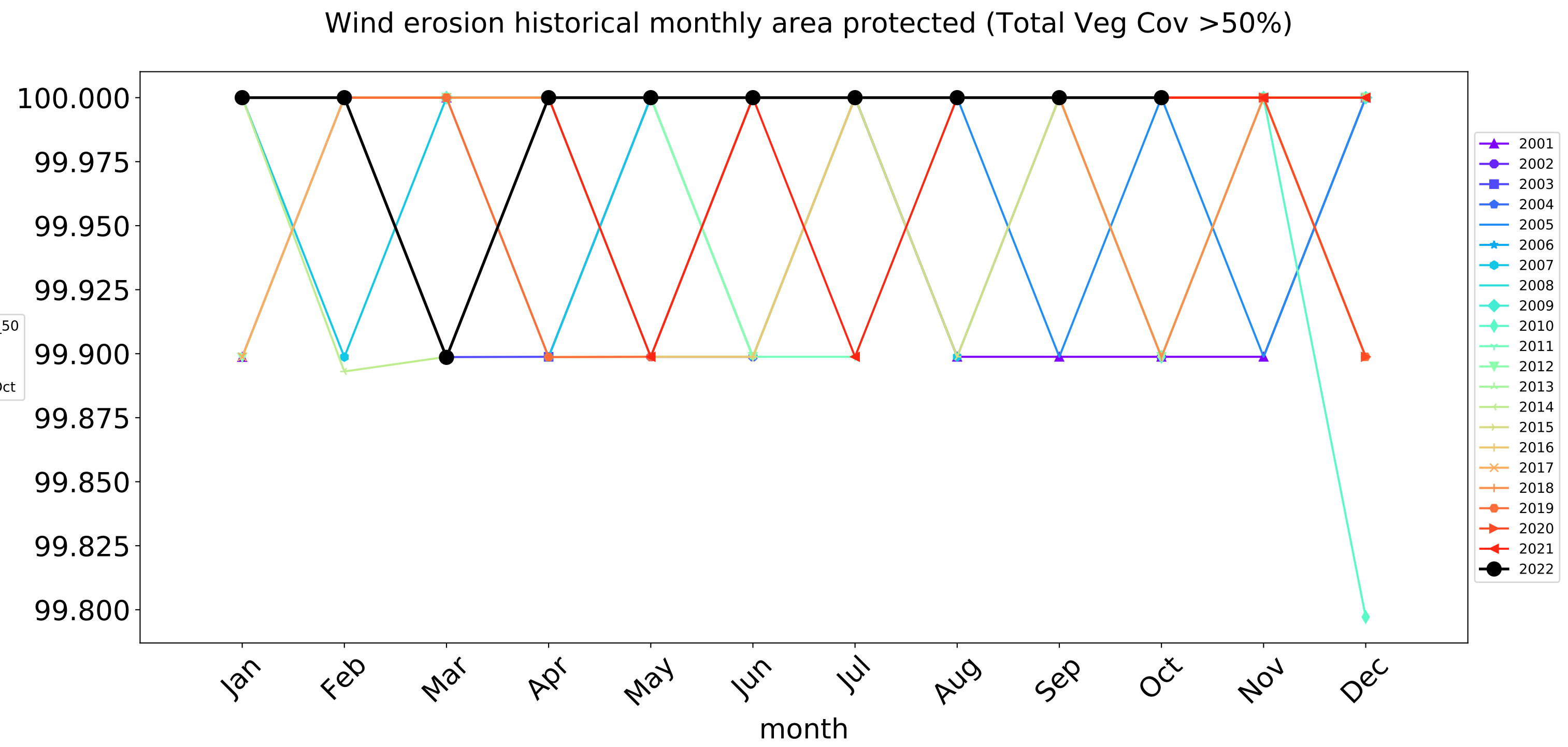
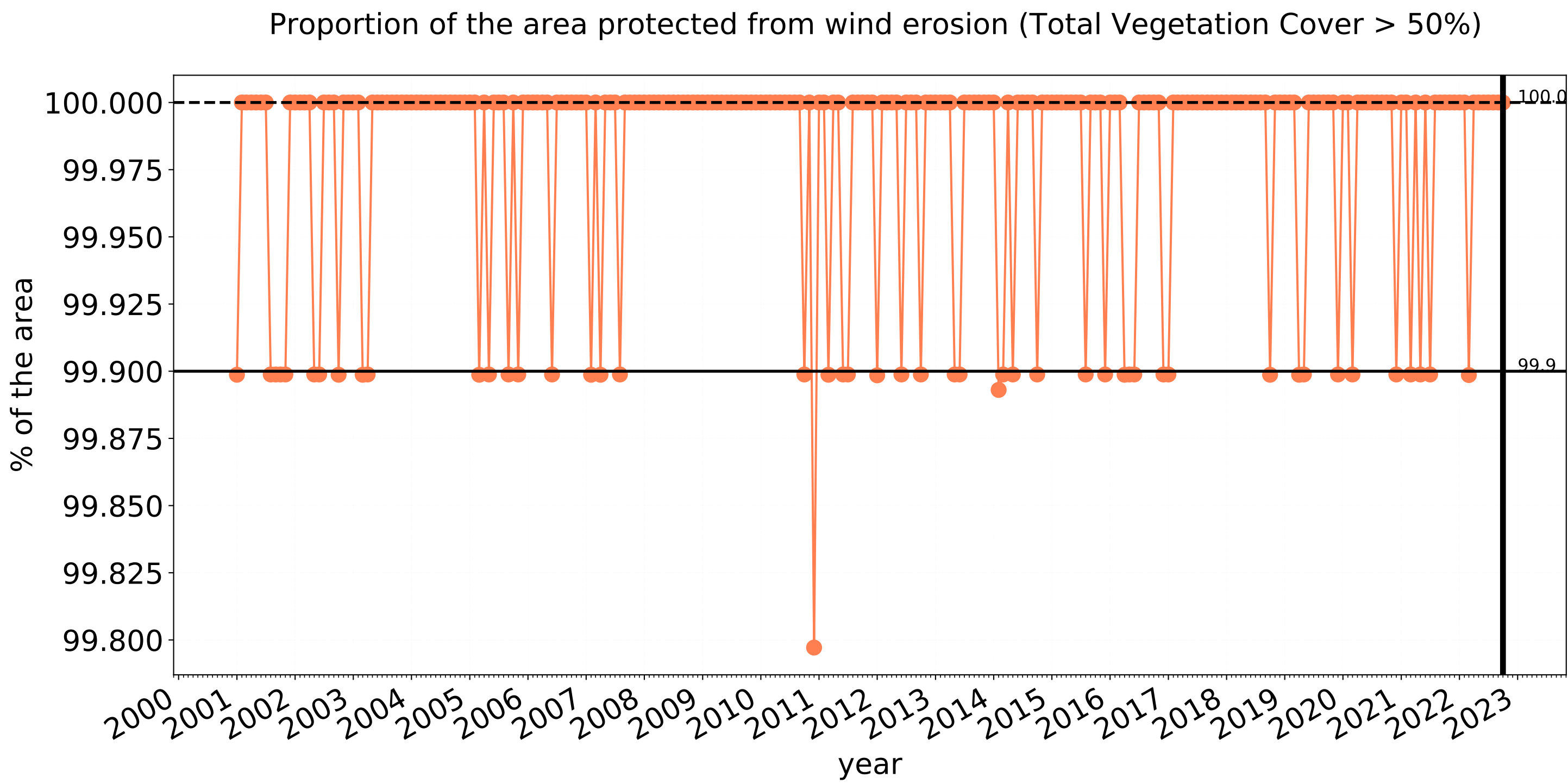
Australian Government

National  
Landcare  
Programme

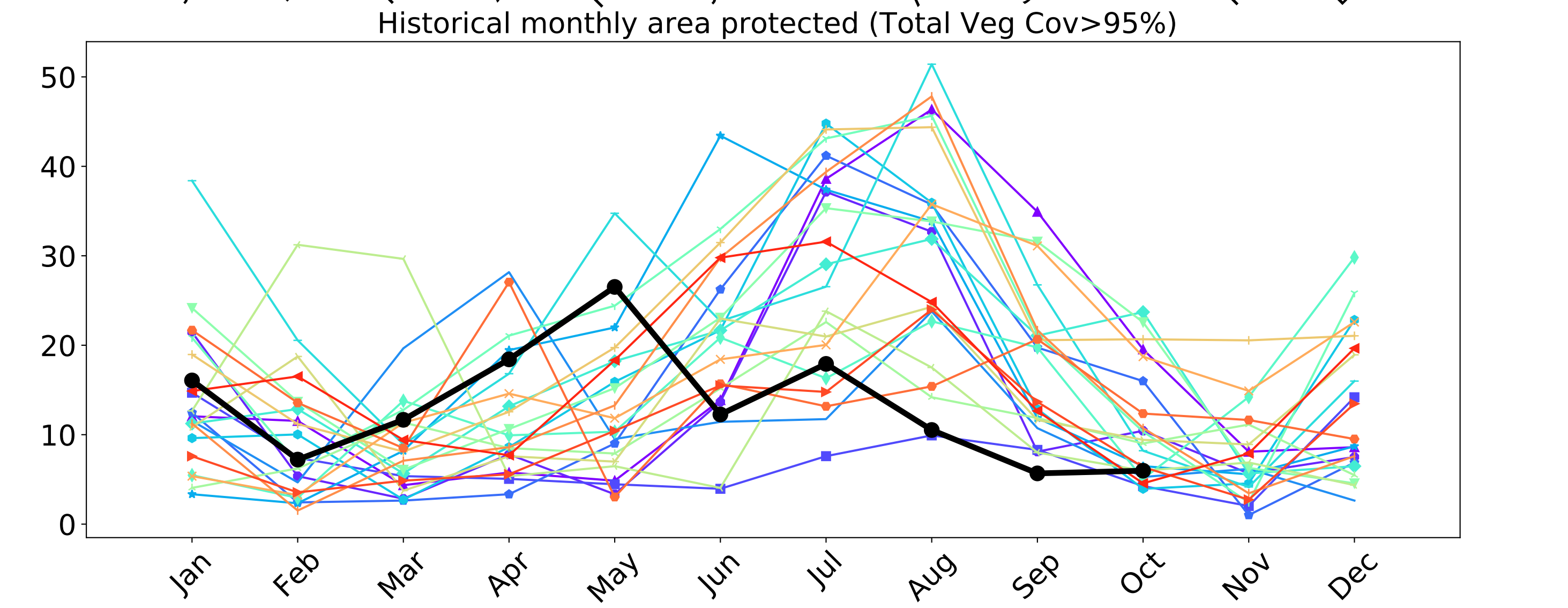
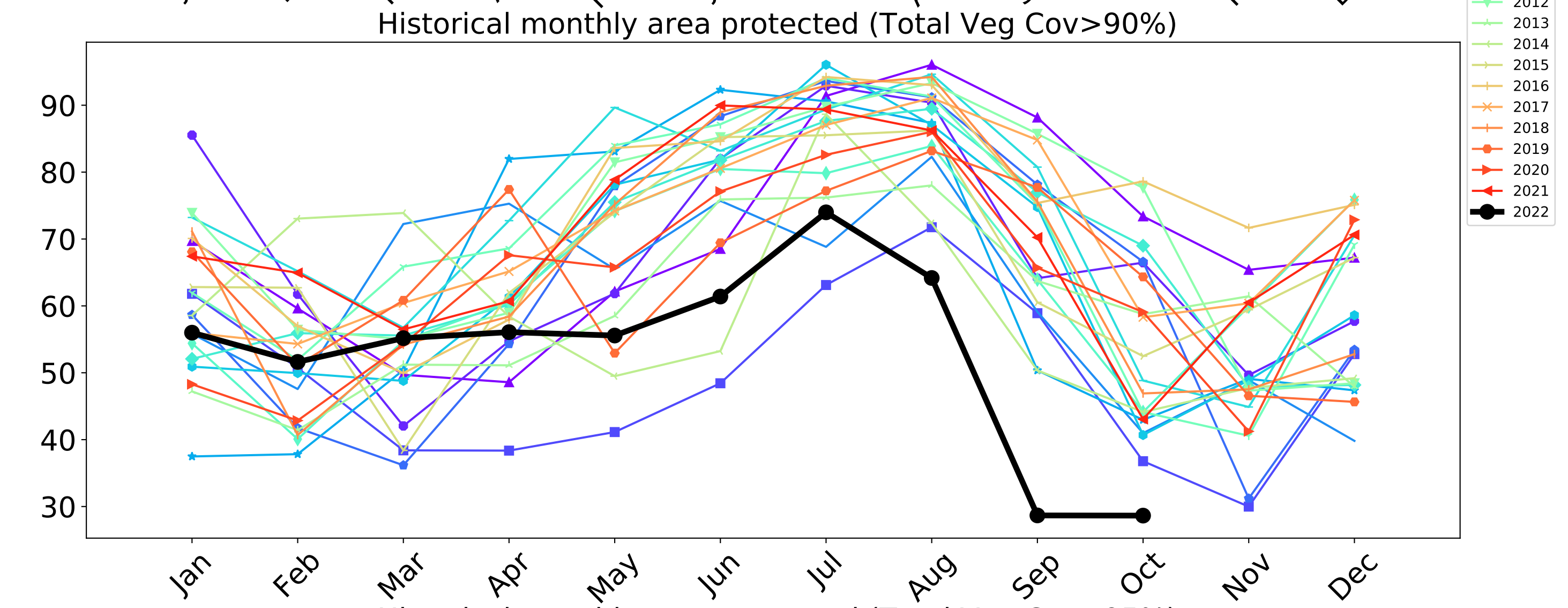
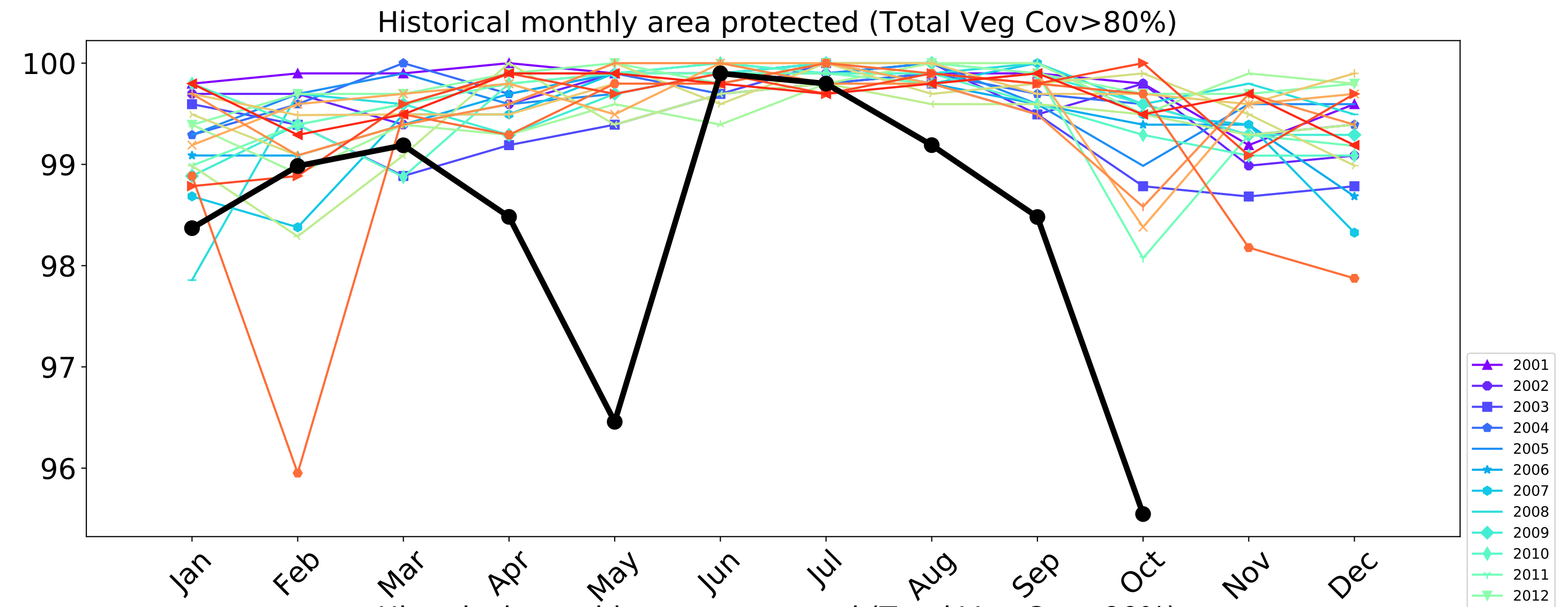
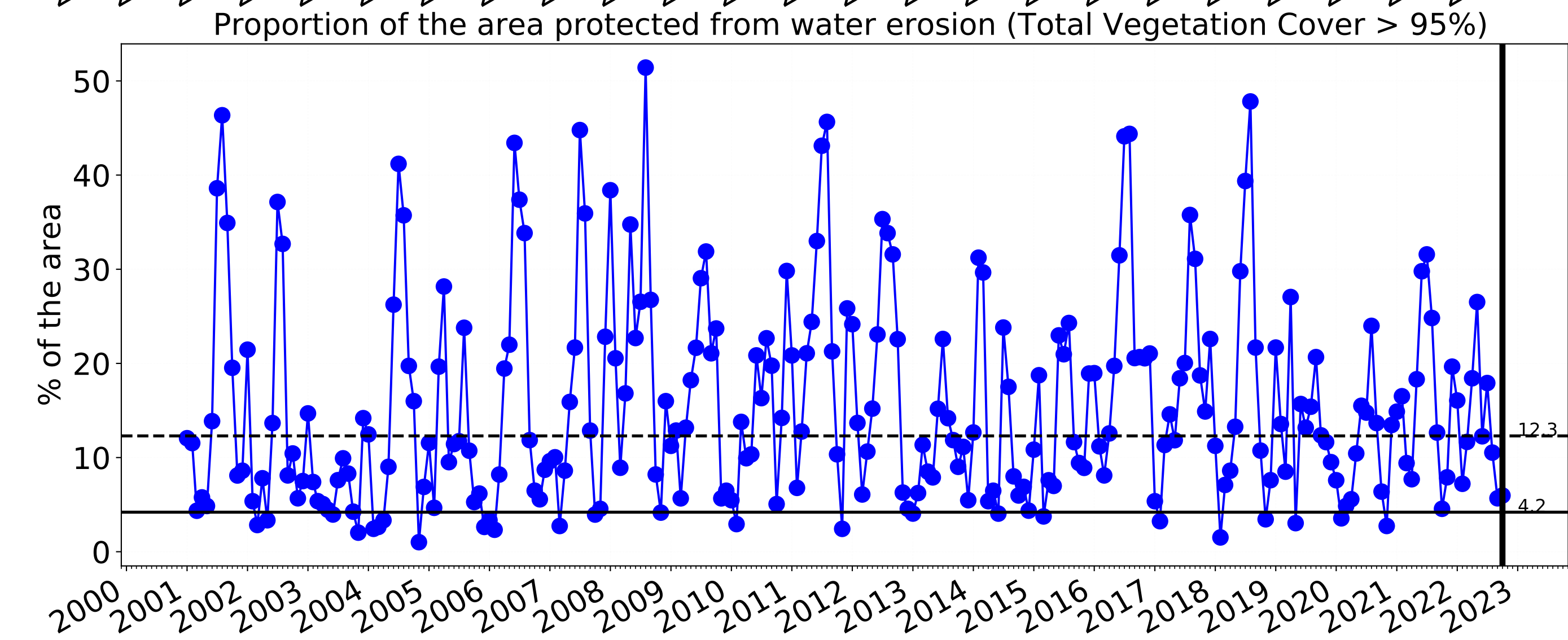
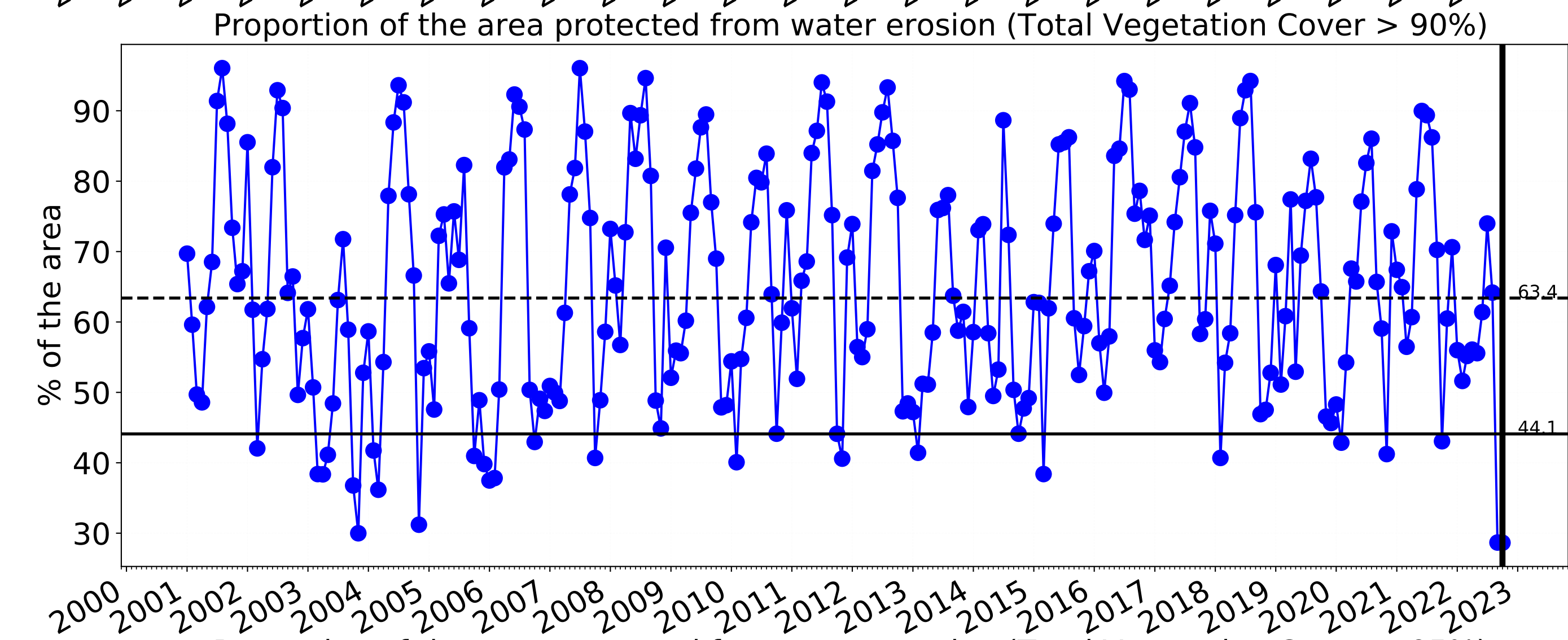
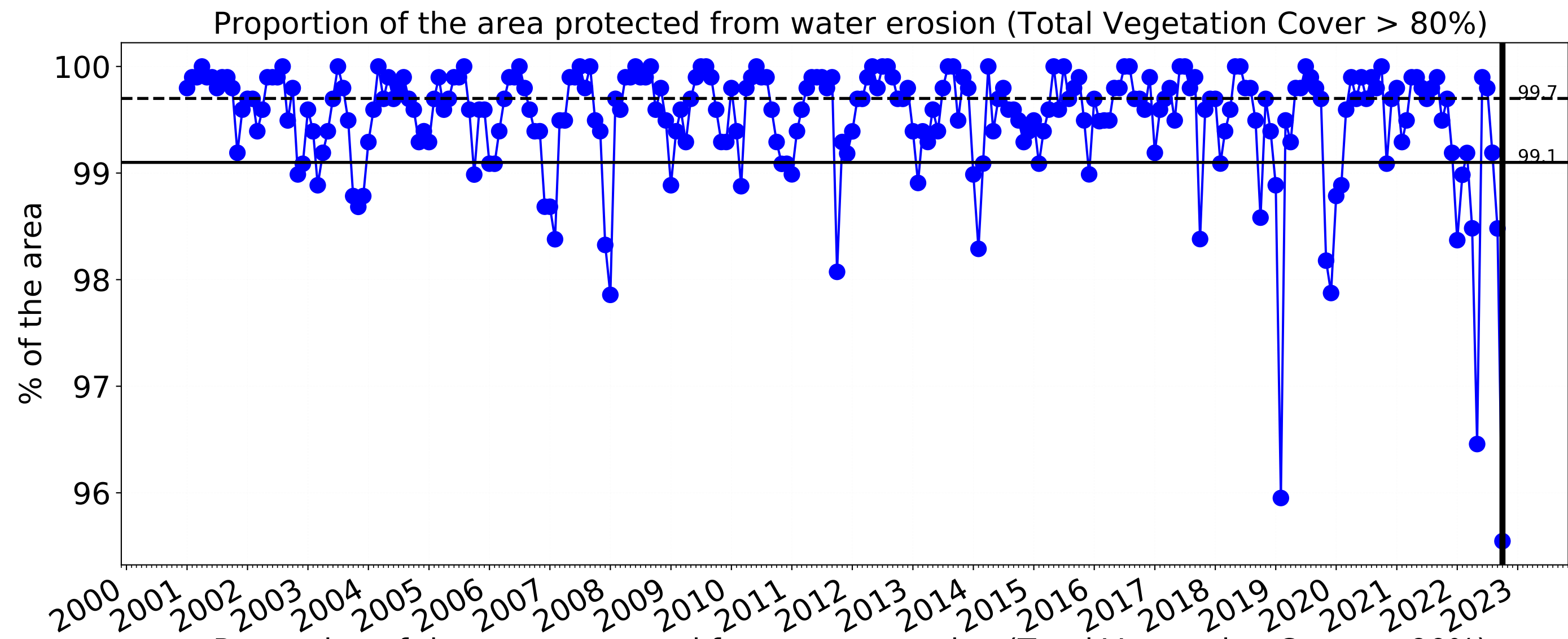




Grazing non forest timeseries



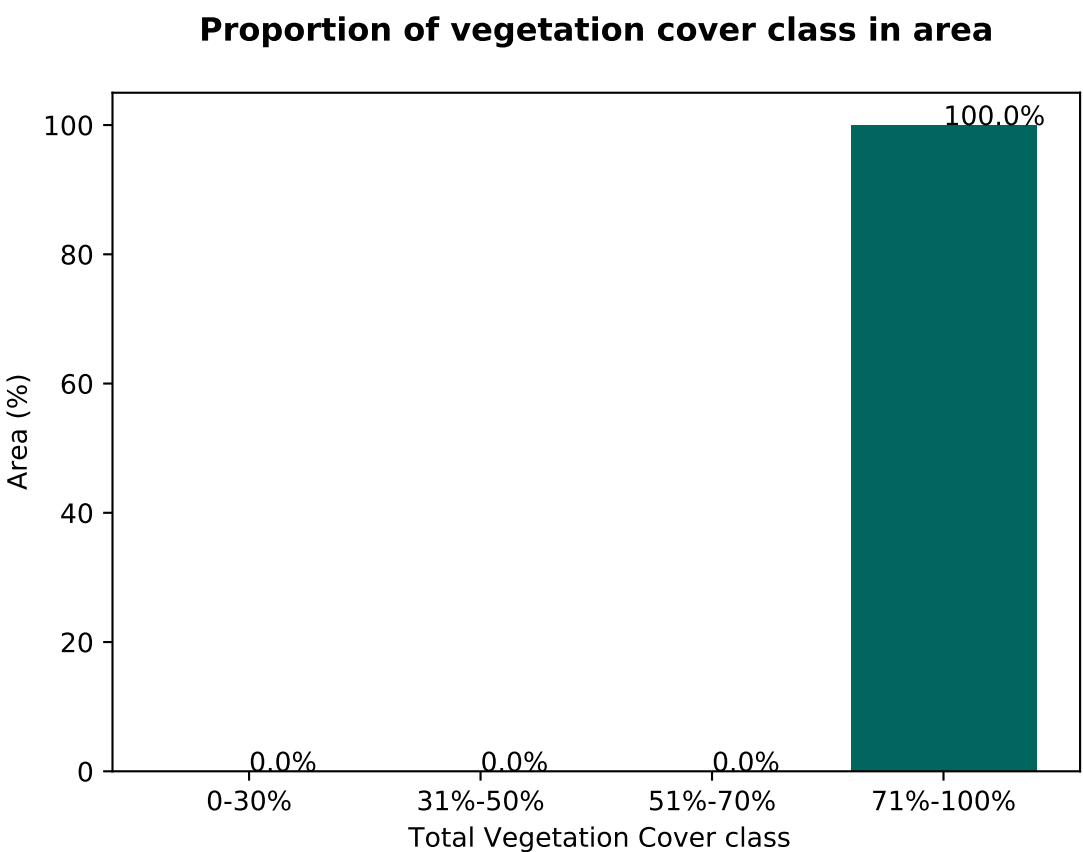
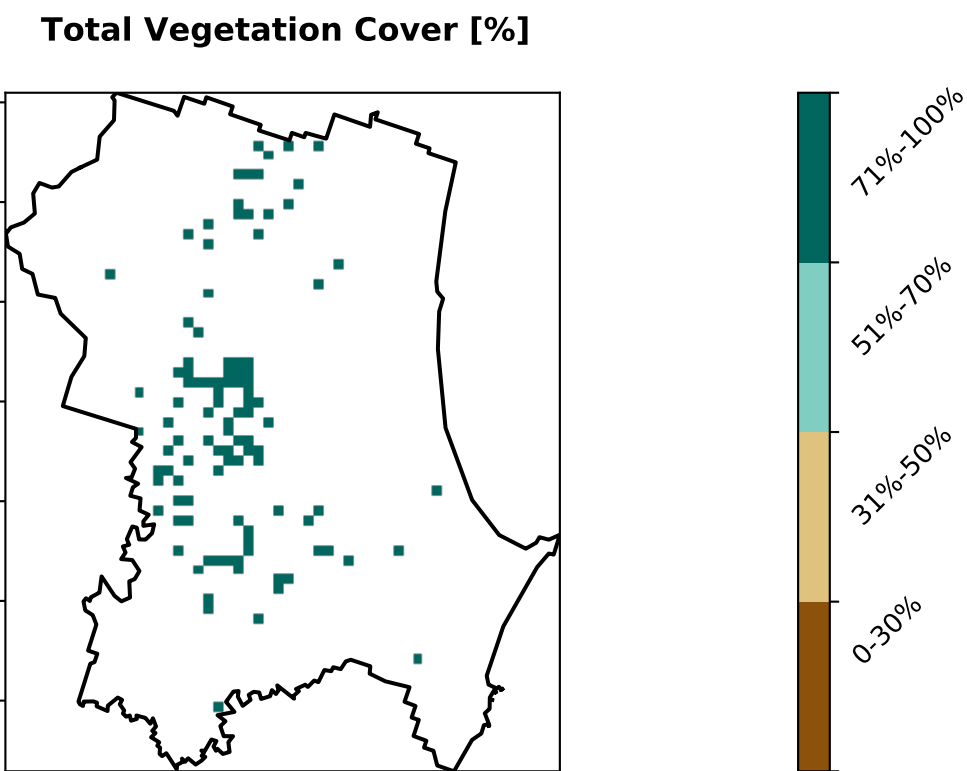
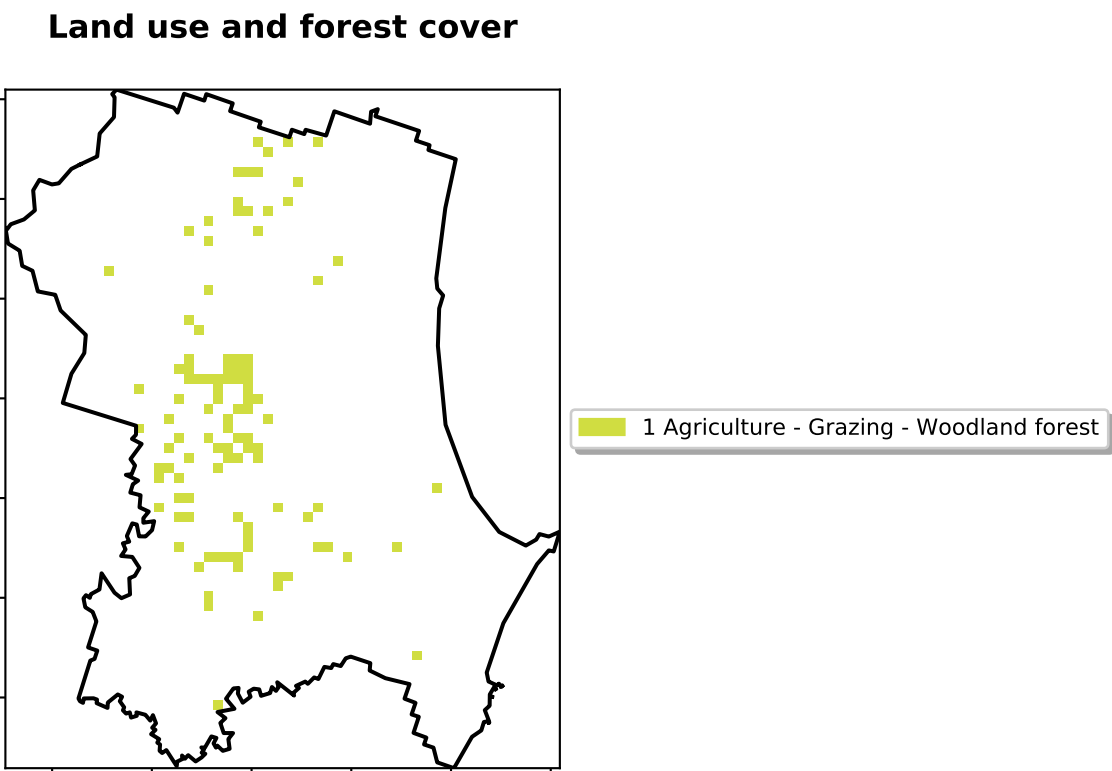




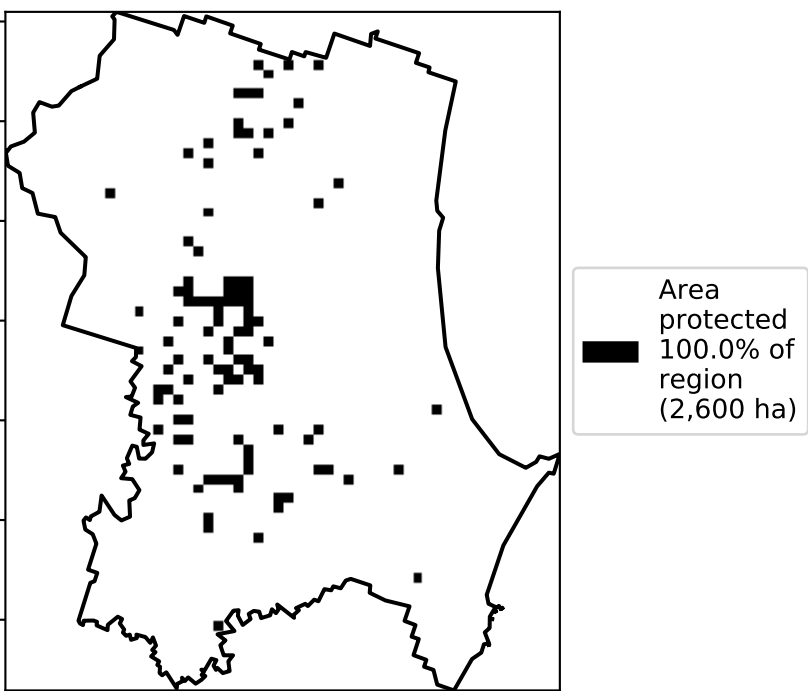


Grazing Woodland forest

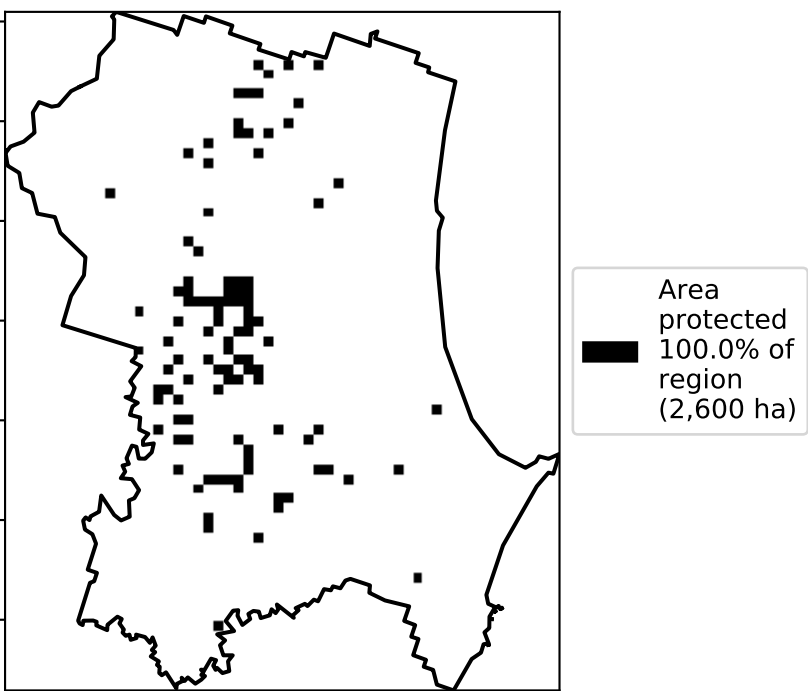
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



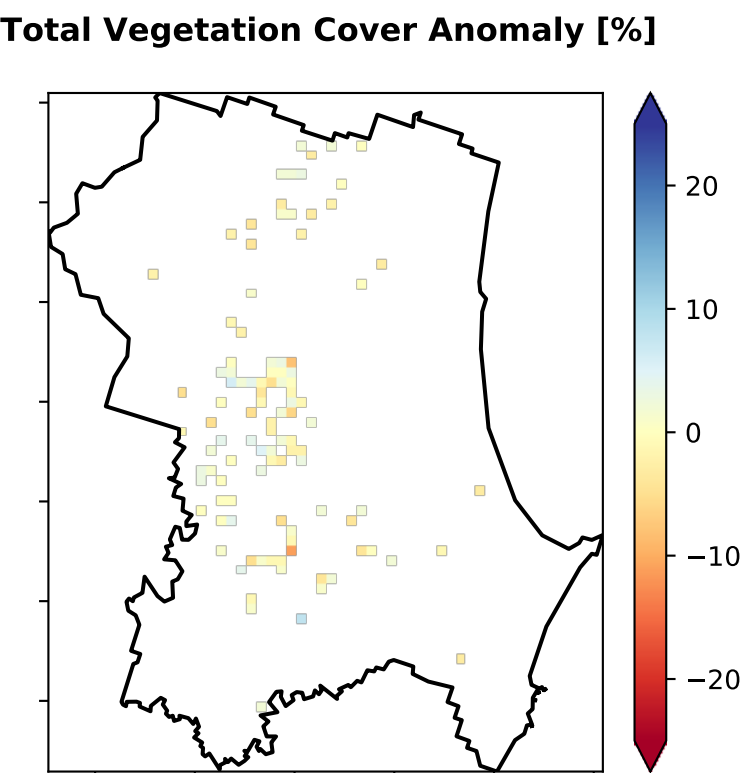
% Area protected from water erosion (>70%)



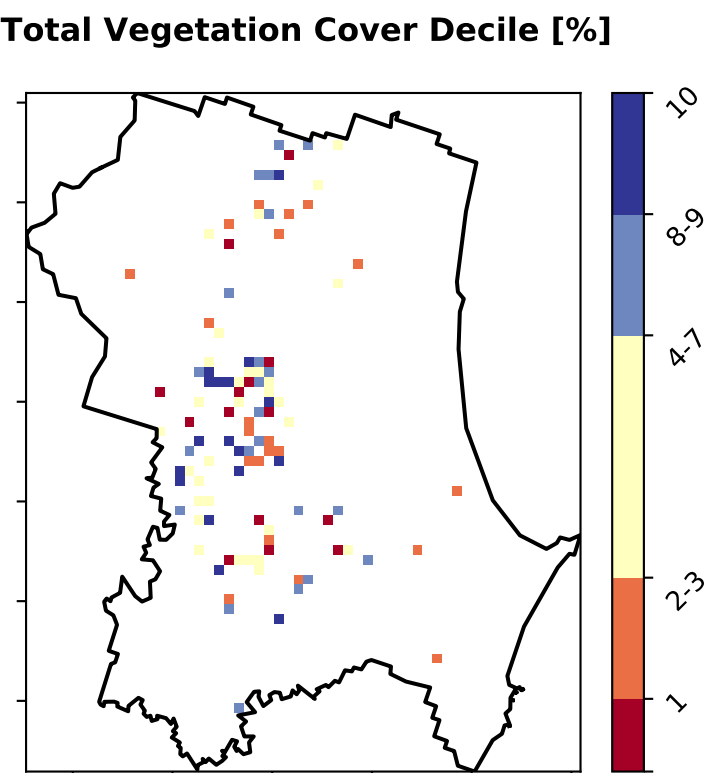
% Area protected from wind erosion (>50%)



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.



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Ecosystem Research Infrastructure



Australian Government

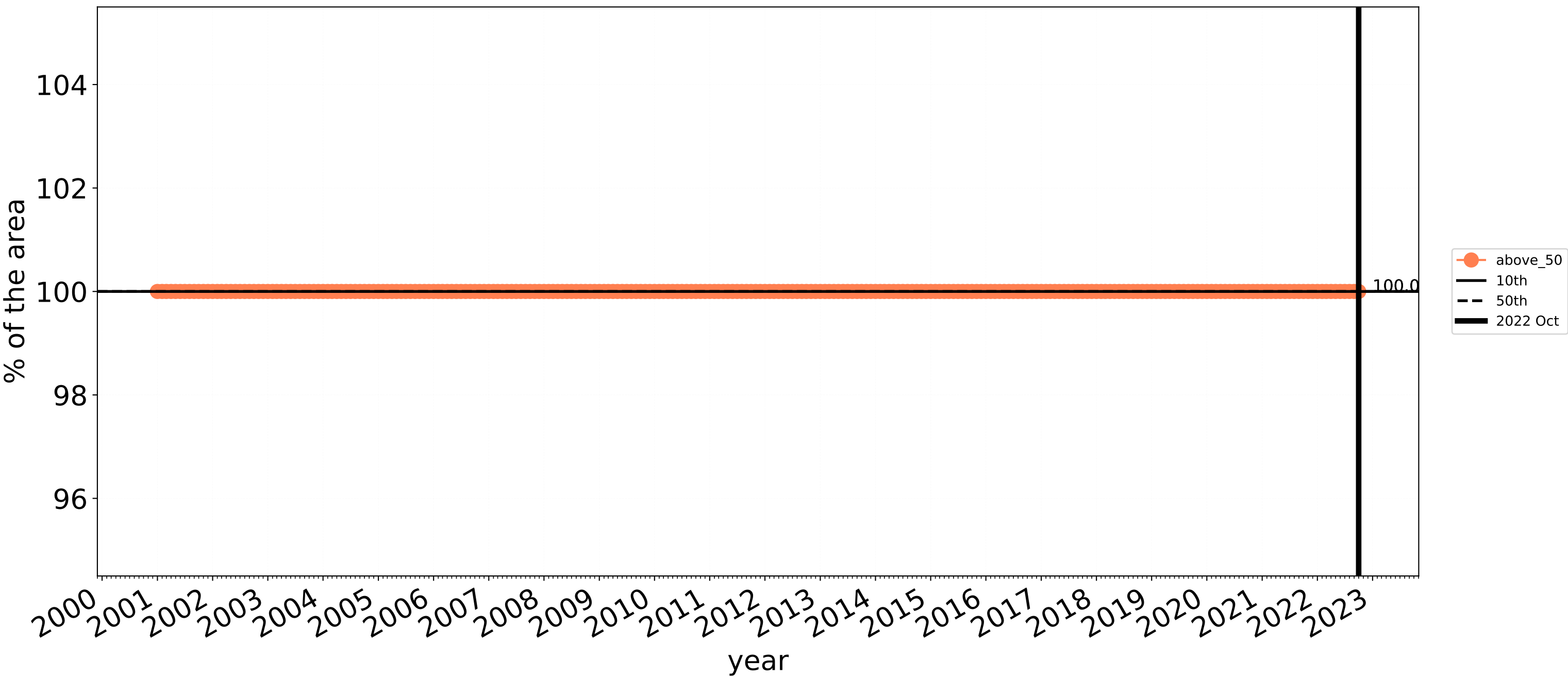
National  
Landcare  
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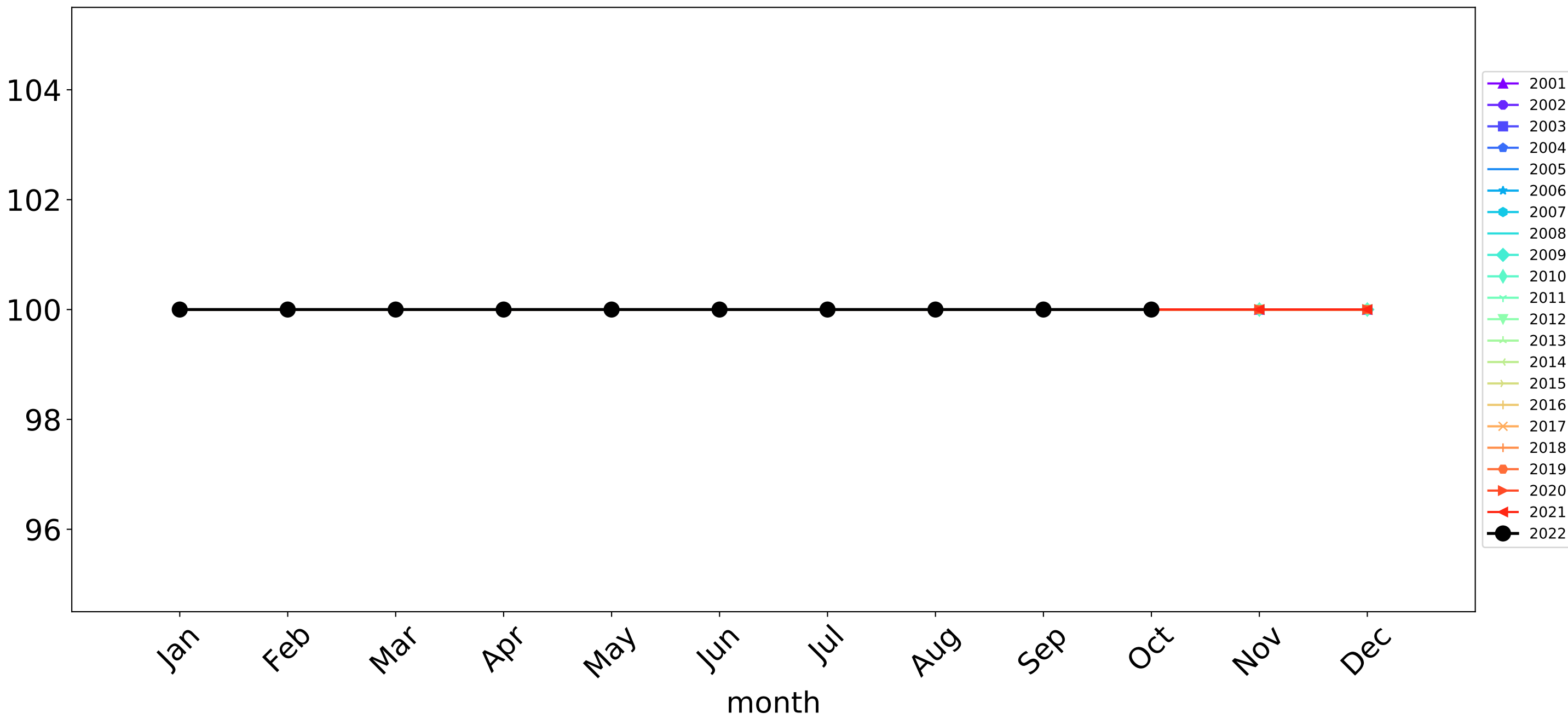


Grazing Woodland forest timeseries

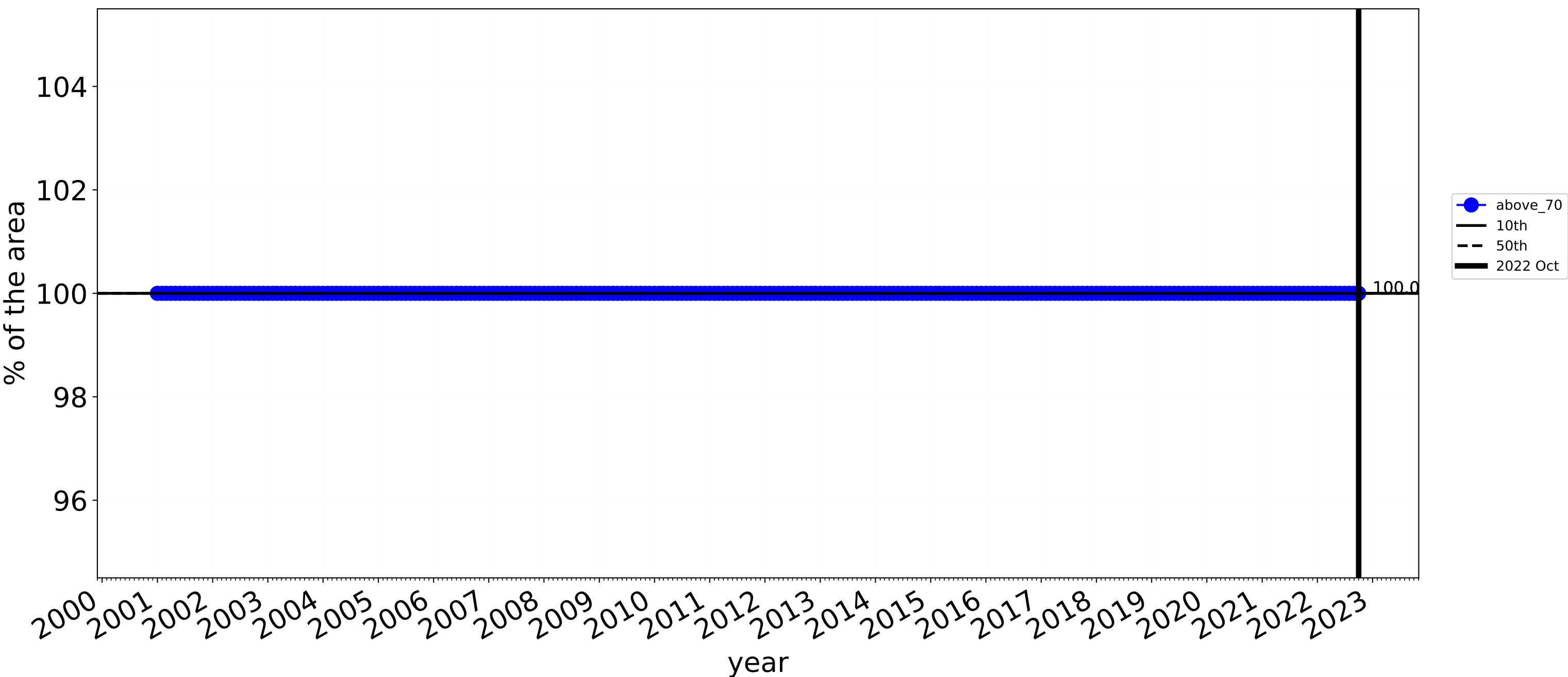
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



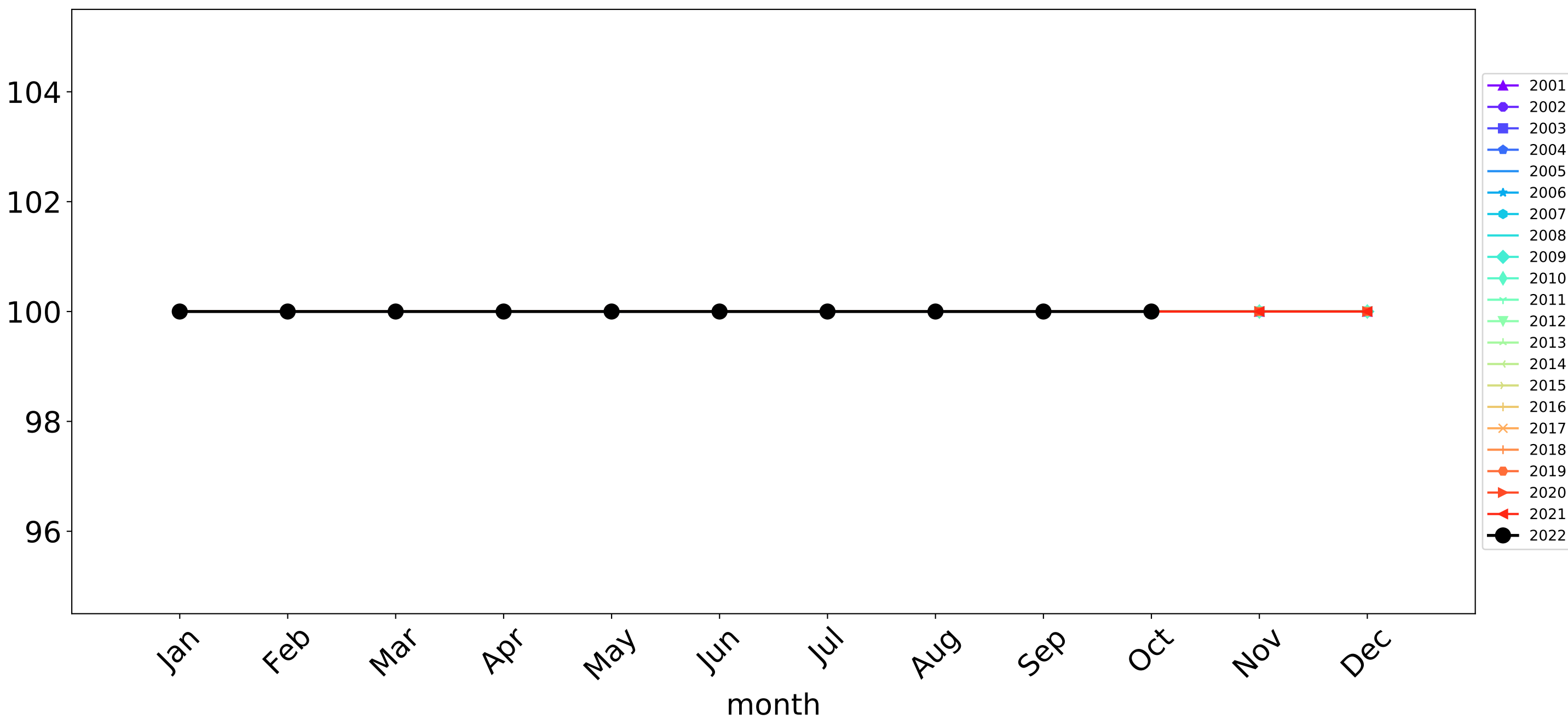
Wind erosion historical monthly area protected (Total Veg Cov >50%)



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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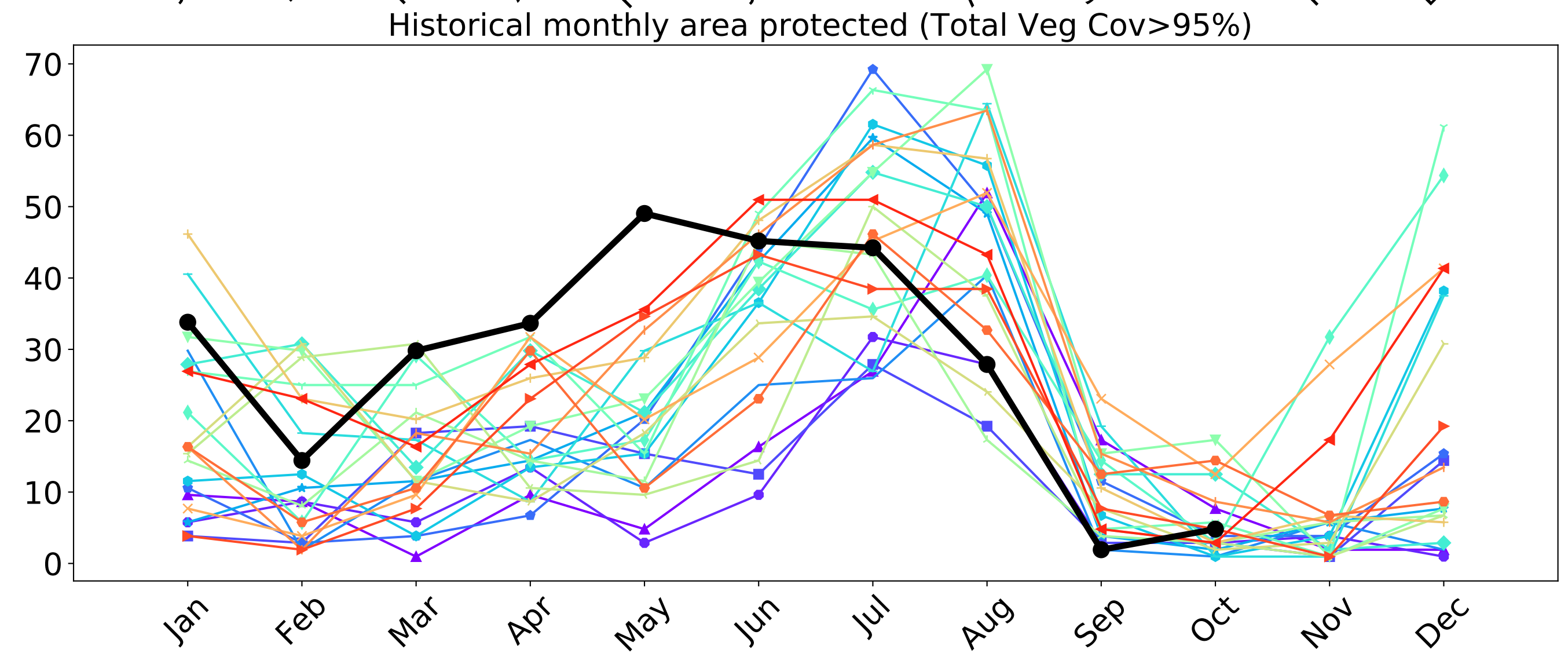
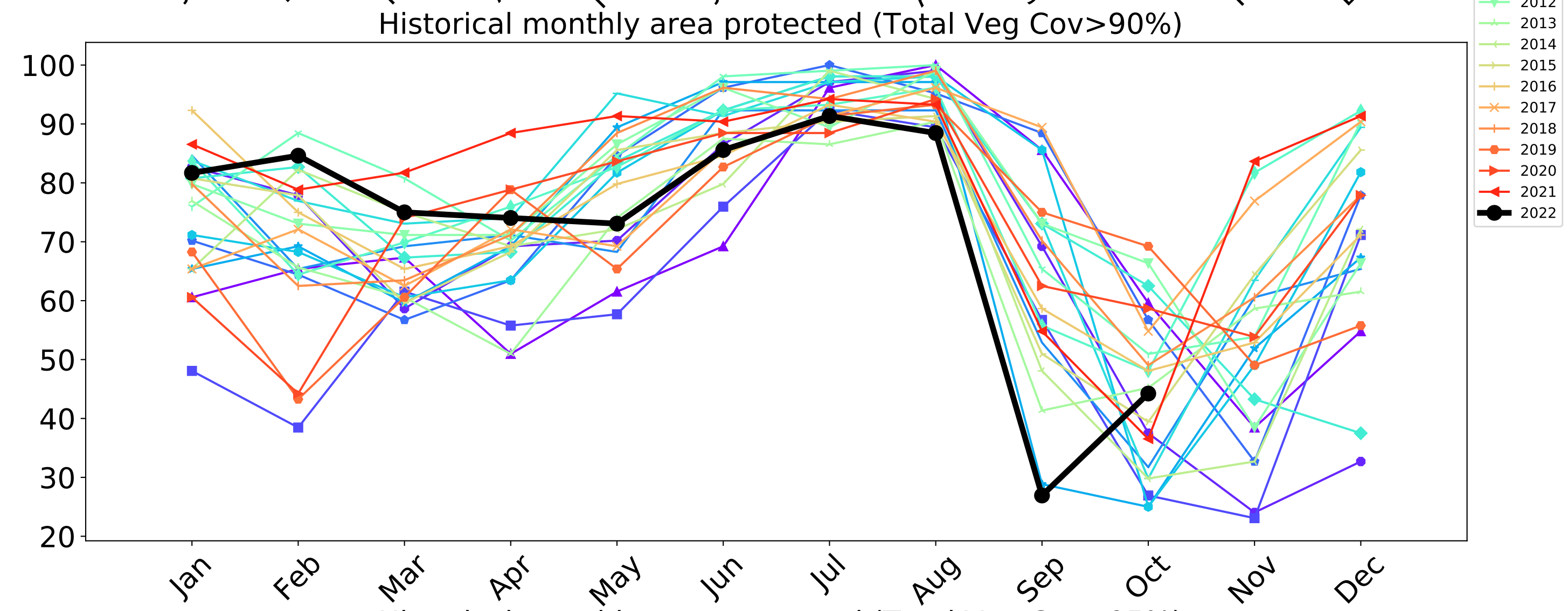
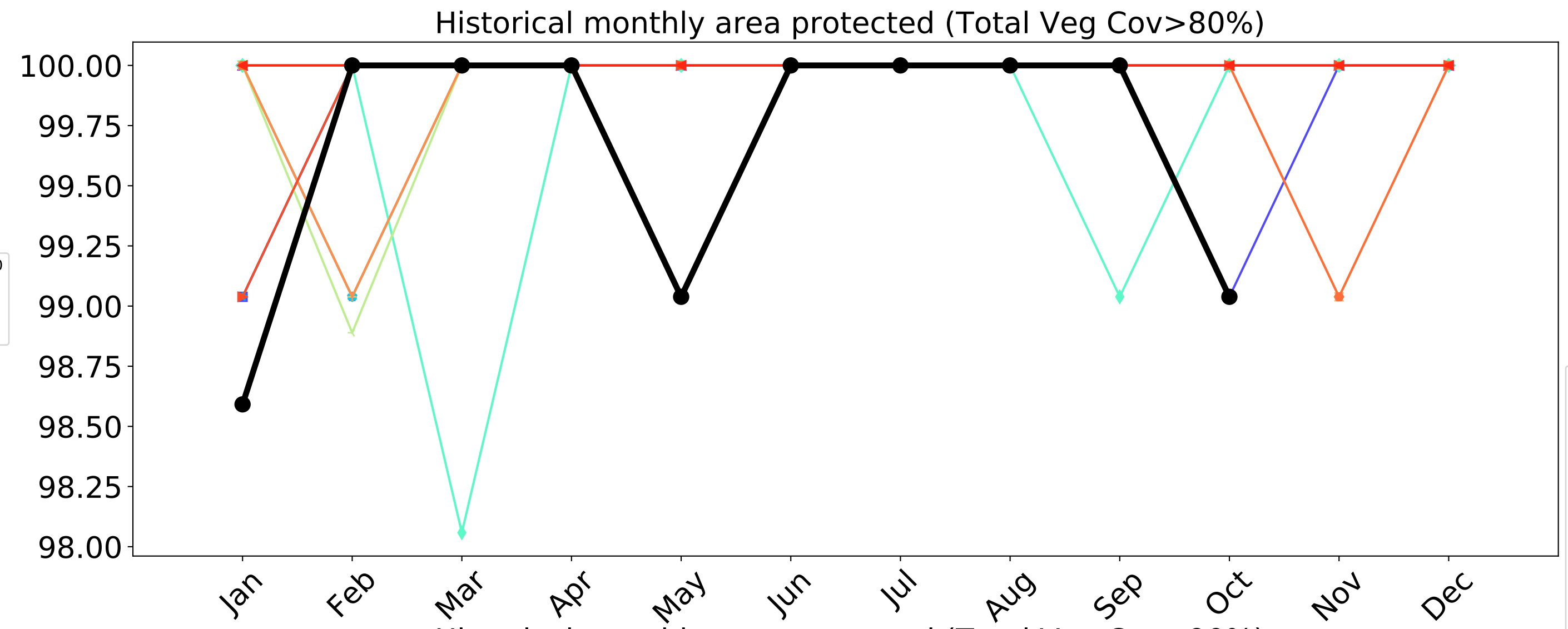
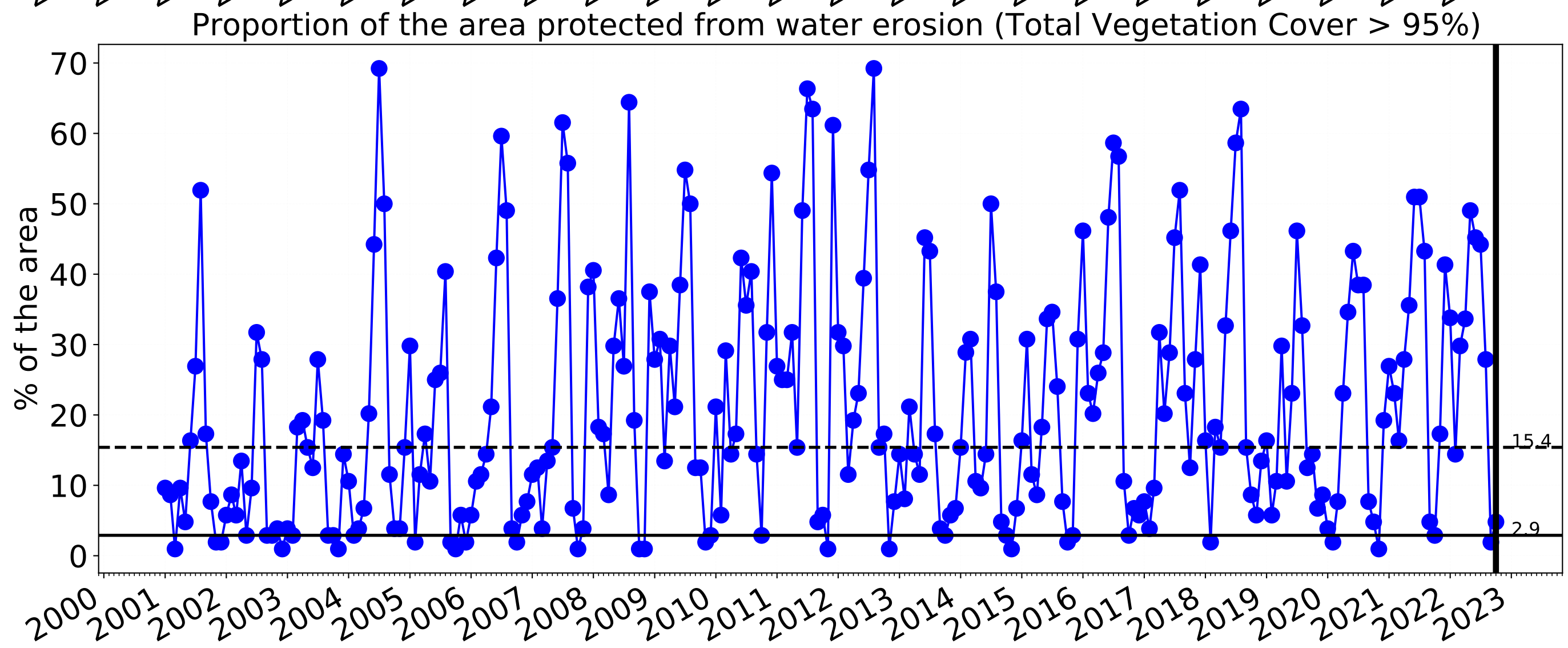
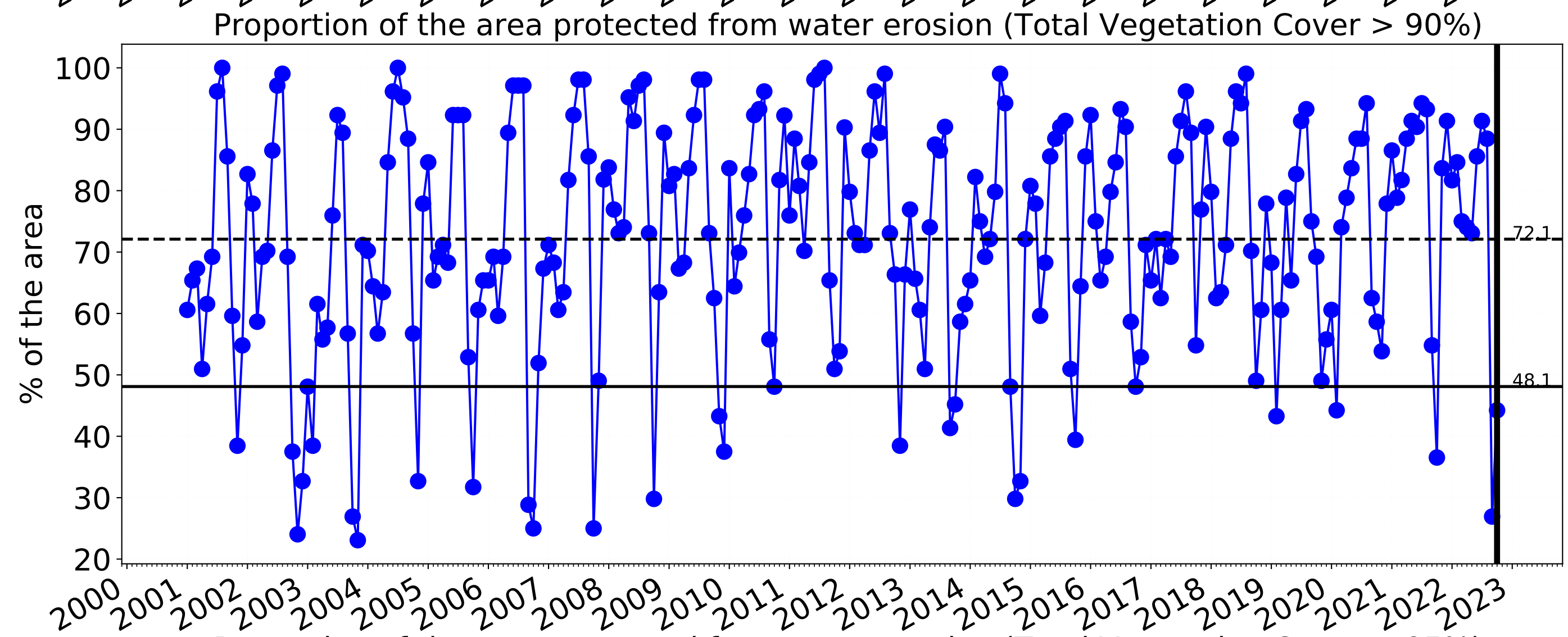
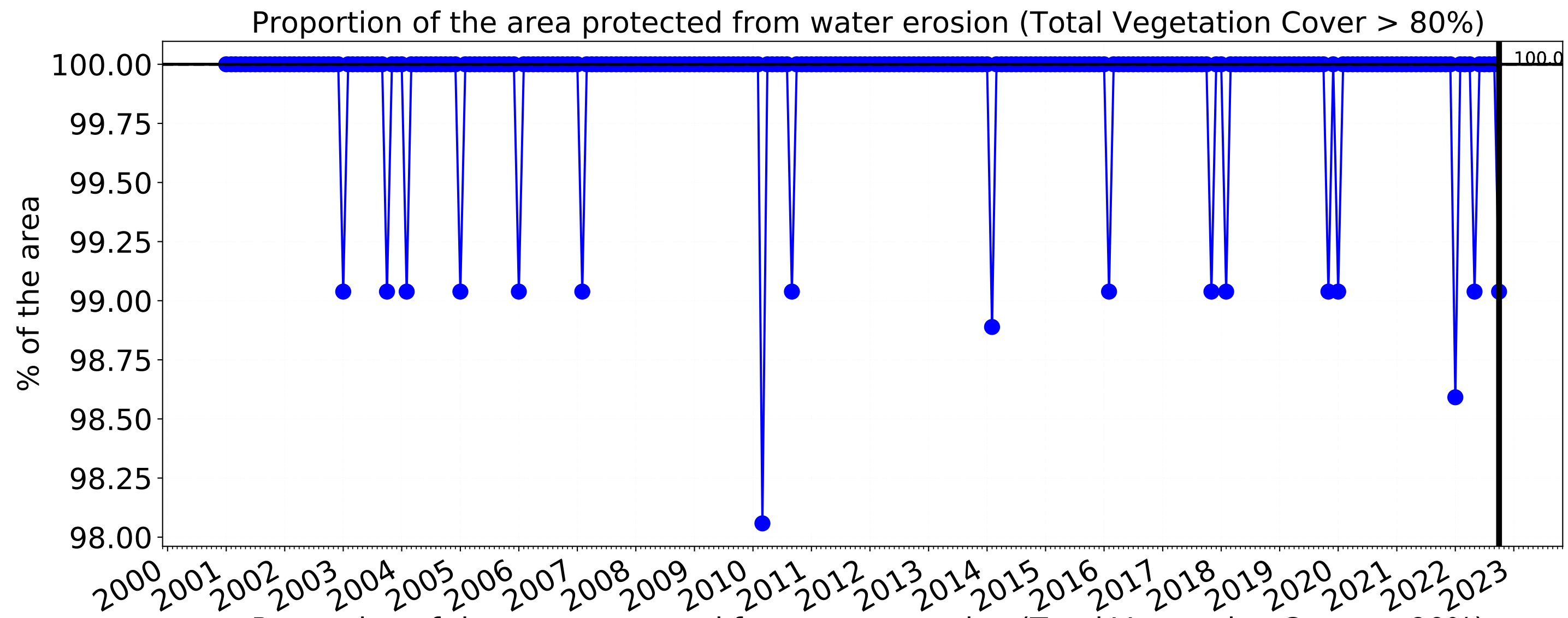


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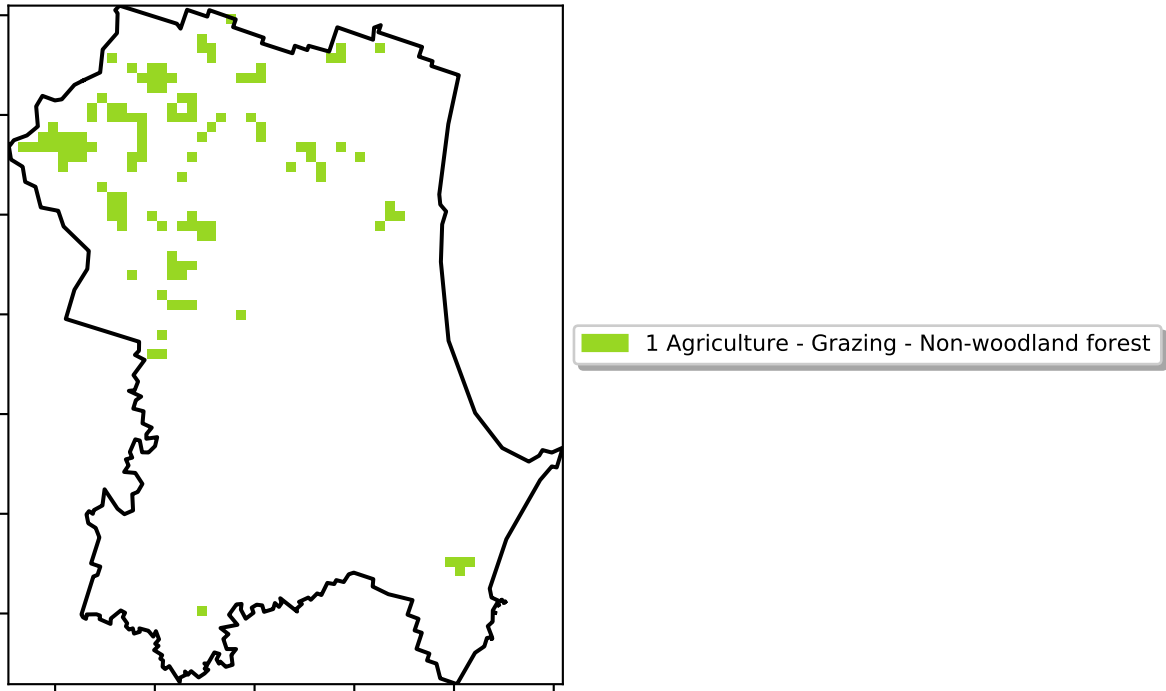
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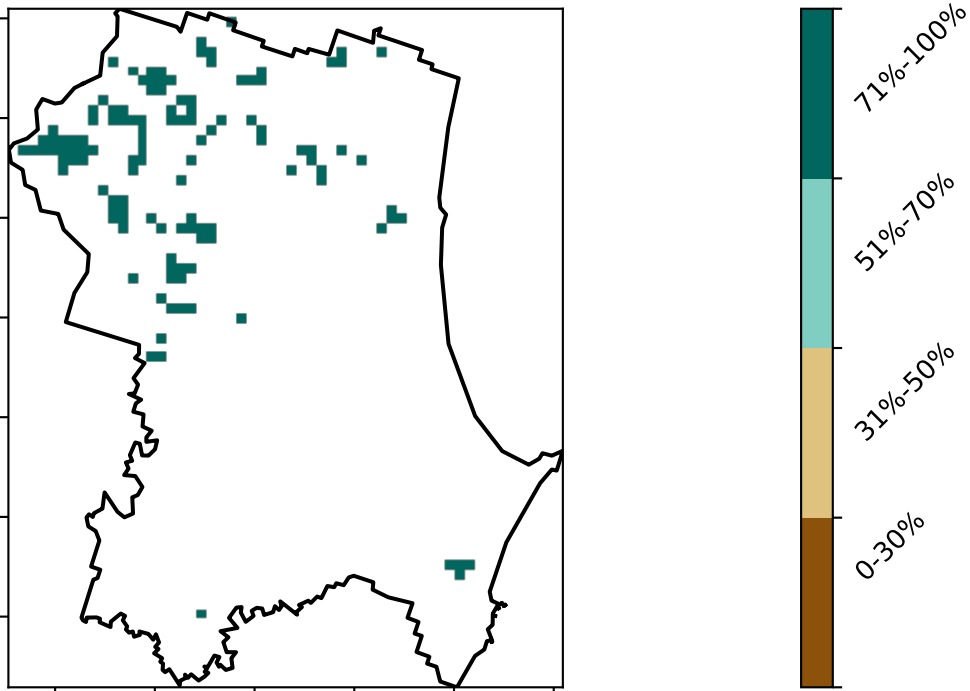


Grazing - Forest (non woodland)

Land use and forest cover



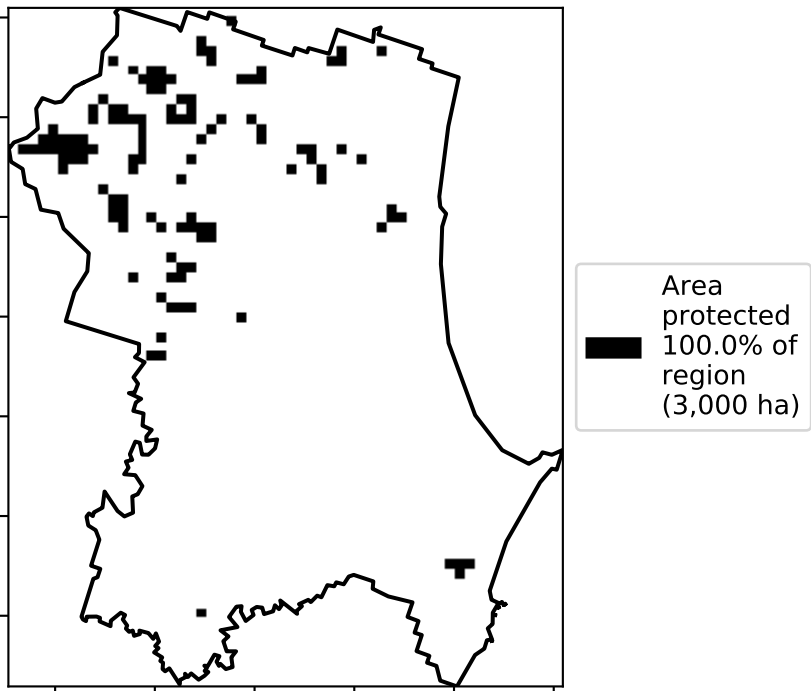
Total Vegetation Cover [%]



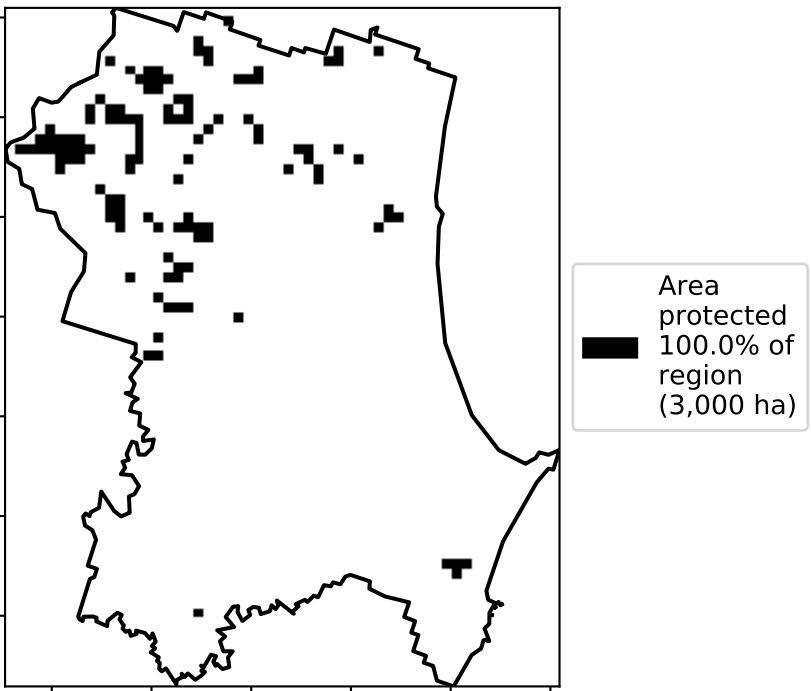
Proportion of vegetation cover class in area



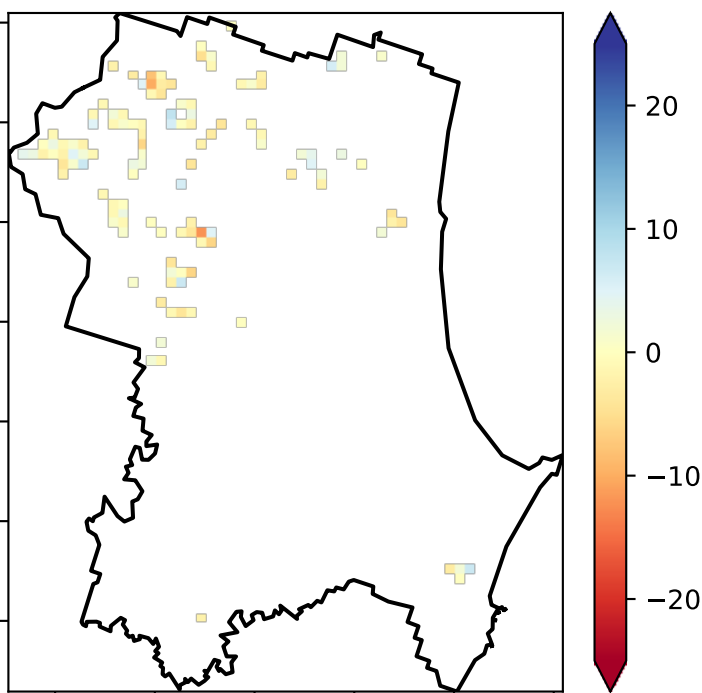
% Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)

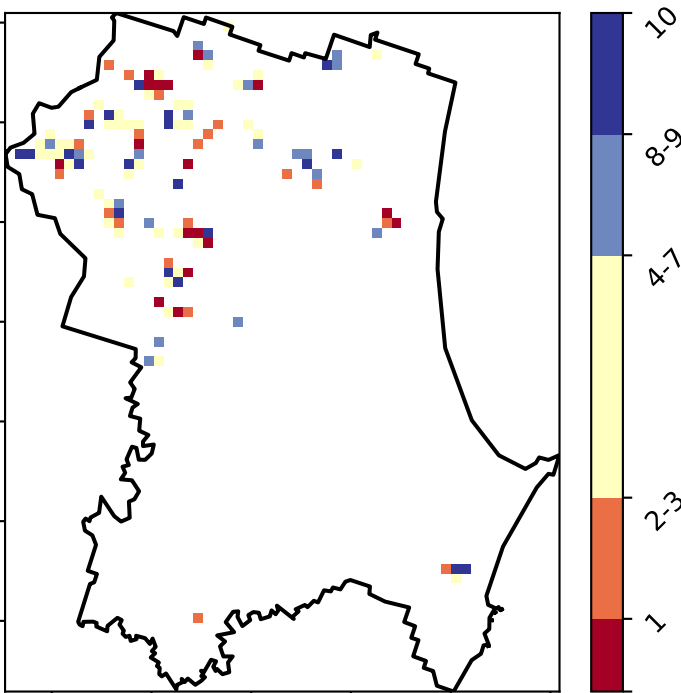


Total Vegetation Cover Anomaly [%]



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 [%]



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.



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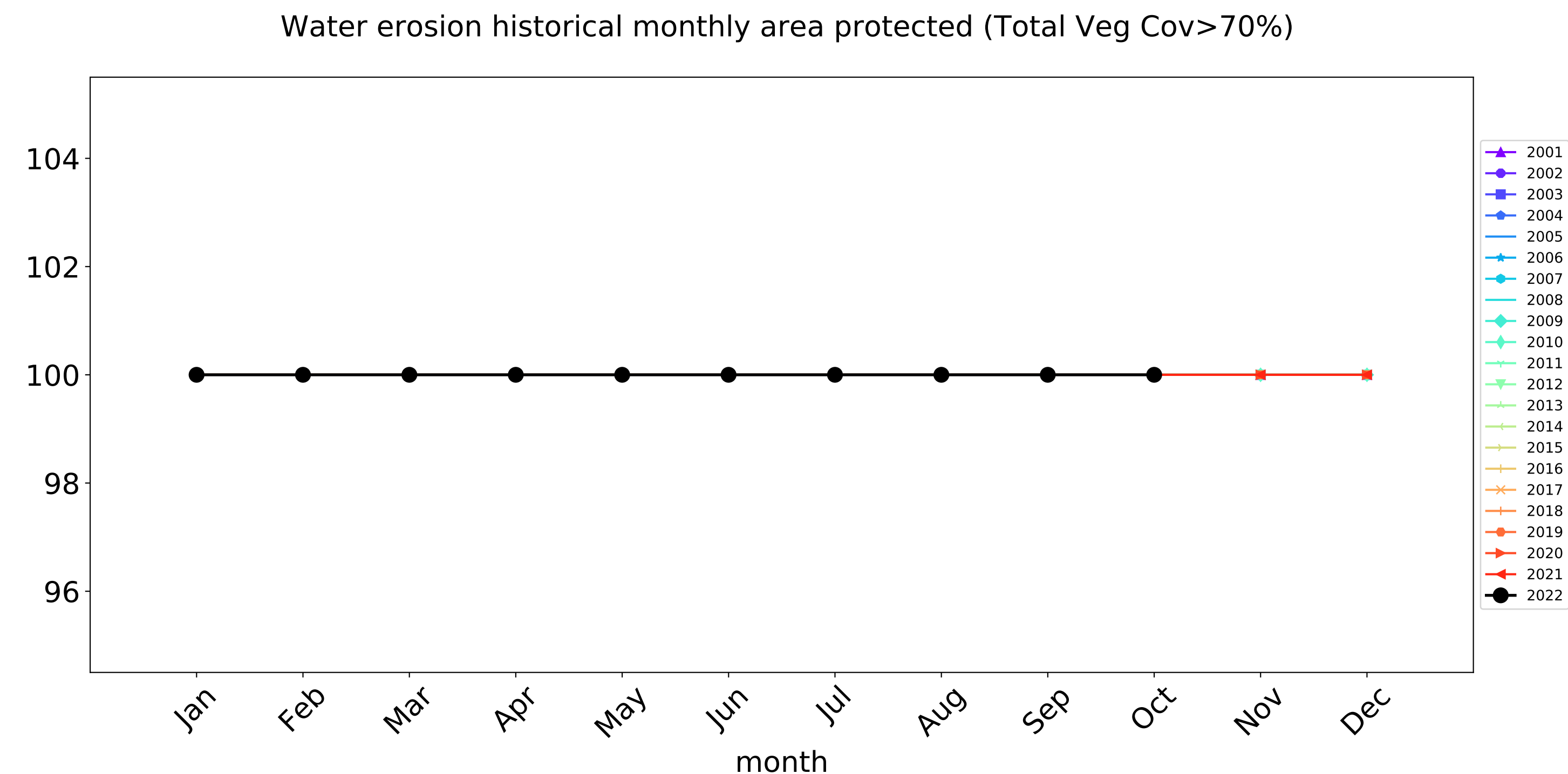
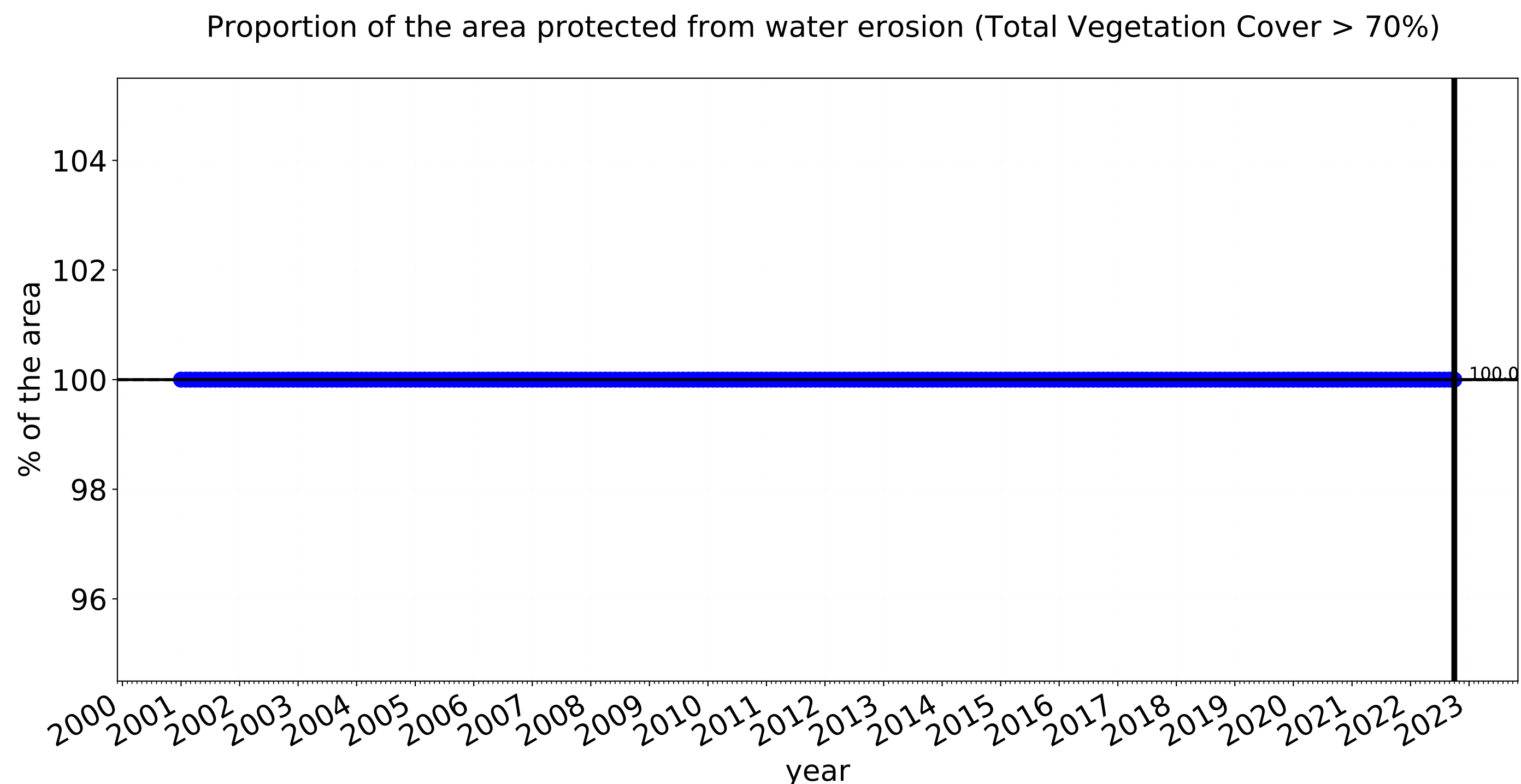
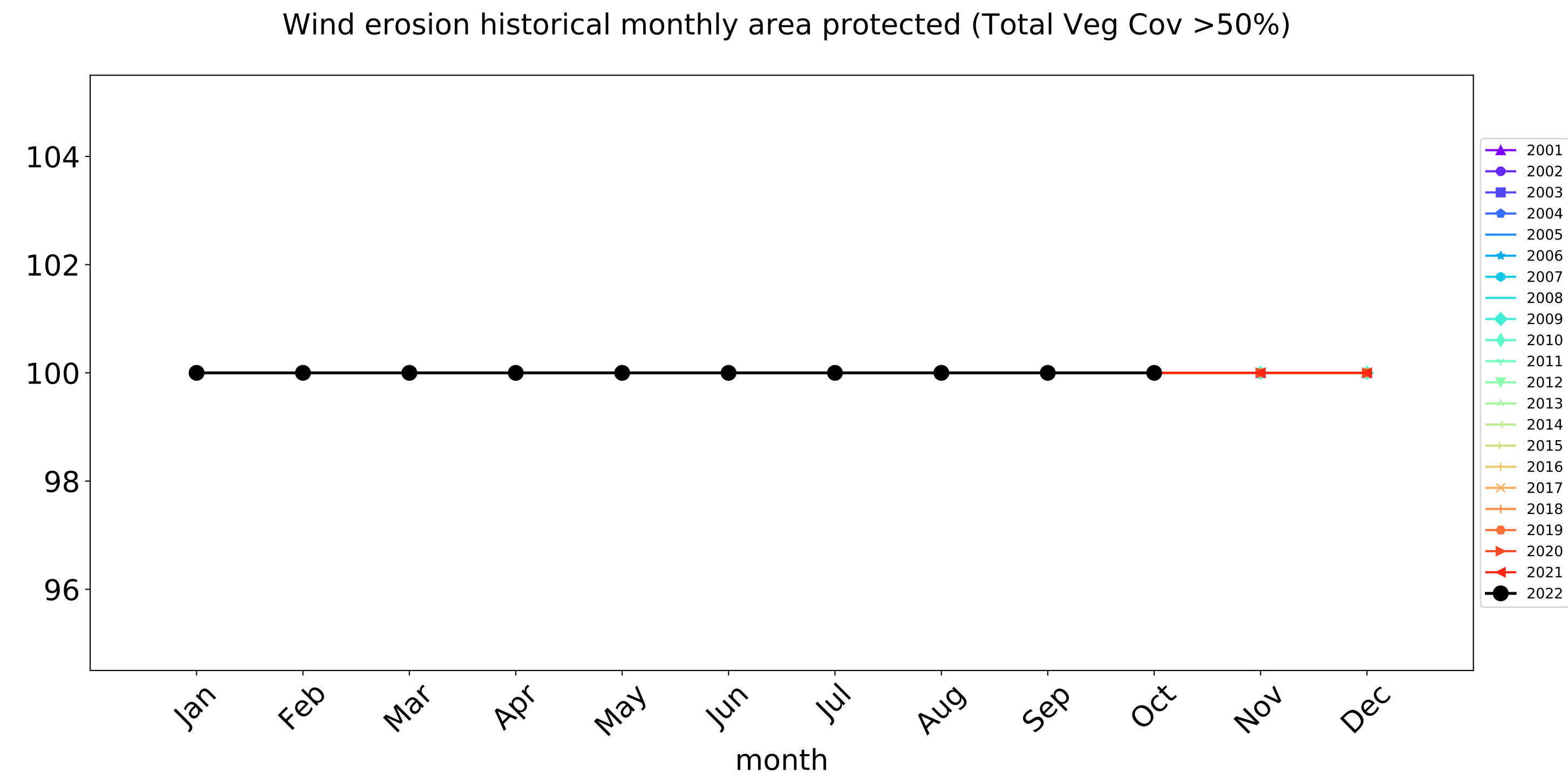
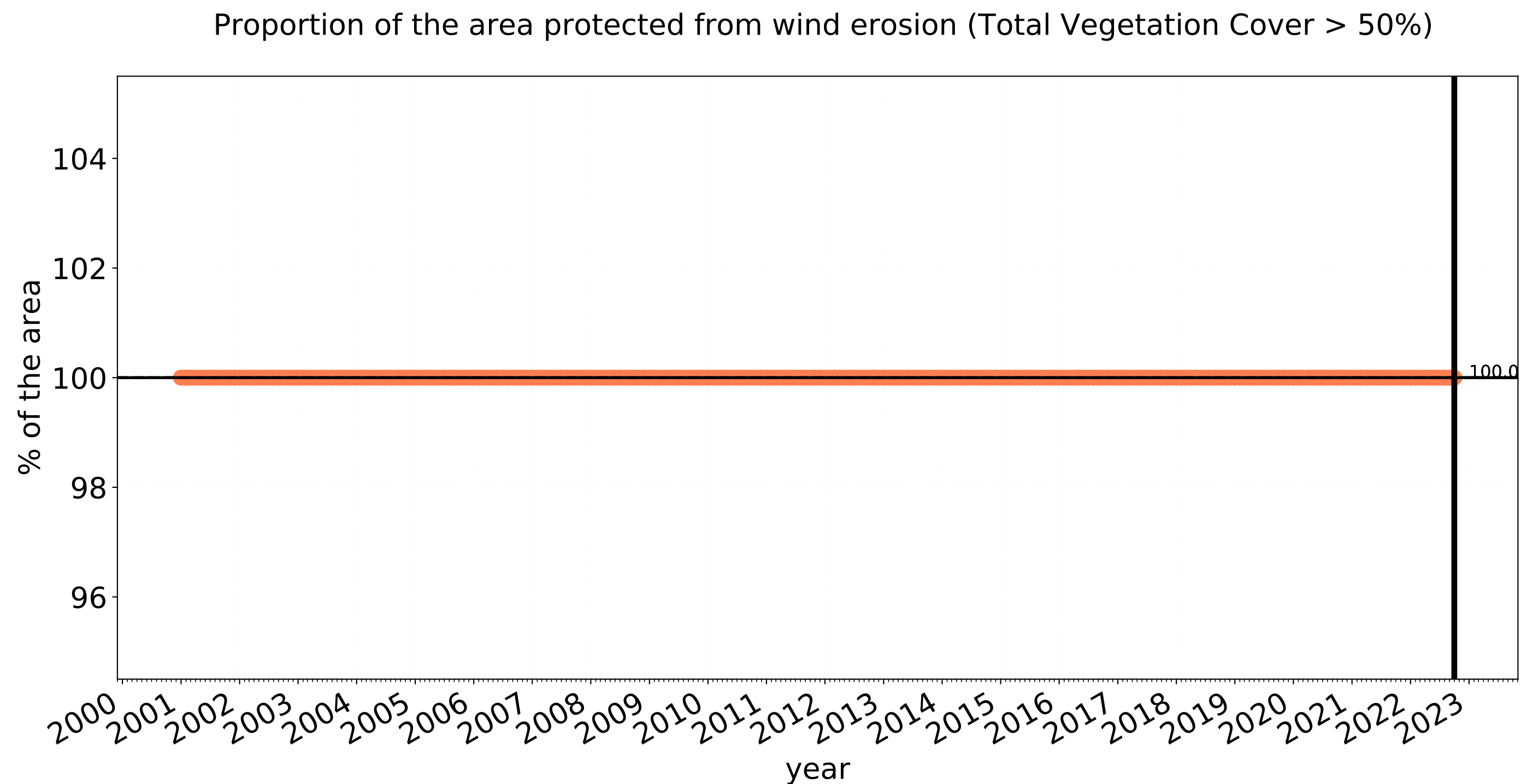
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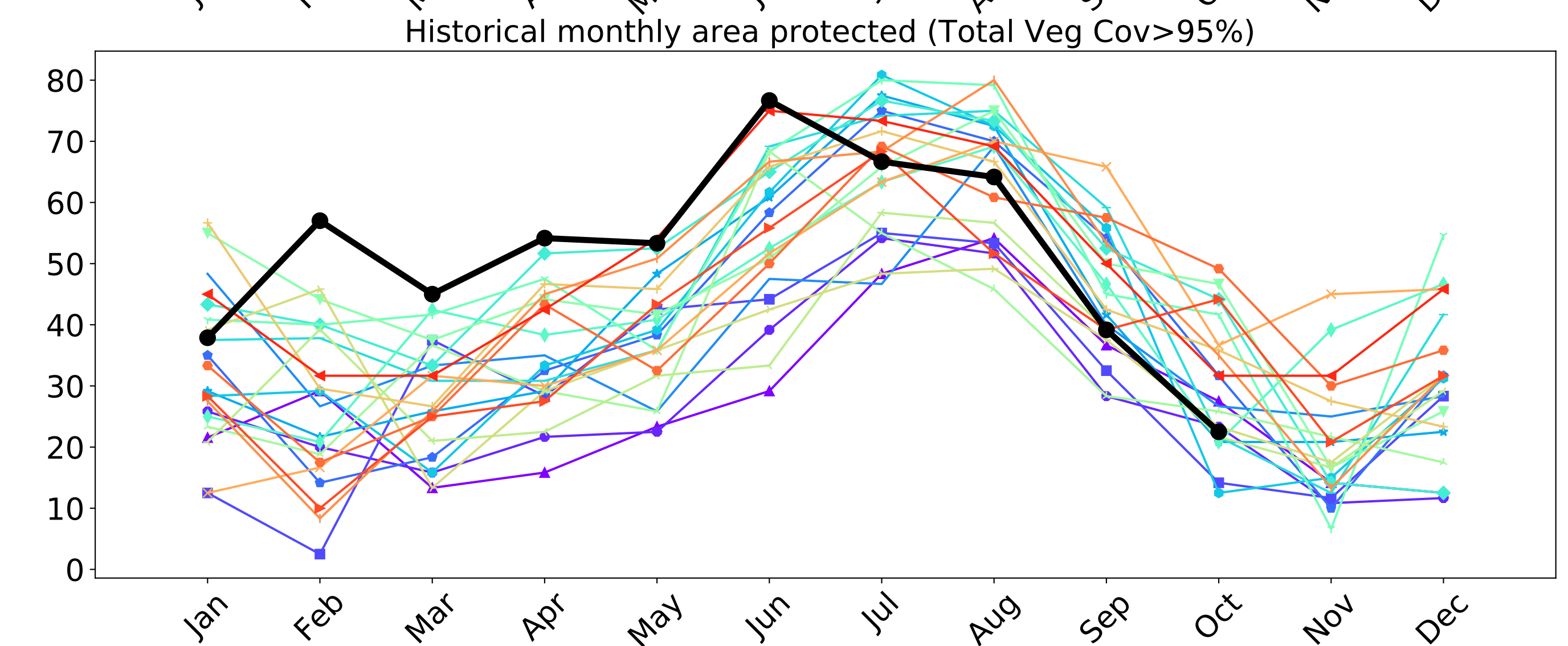
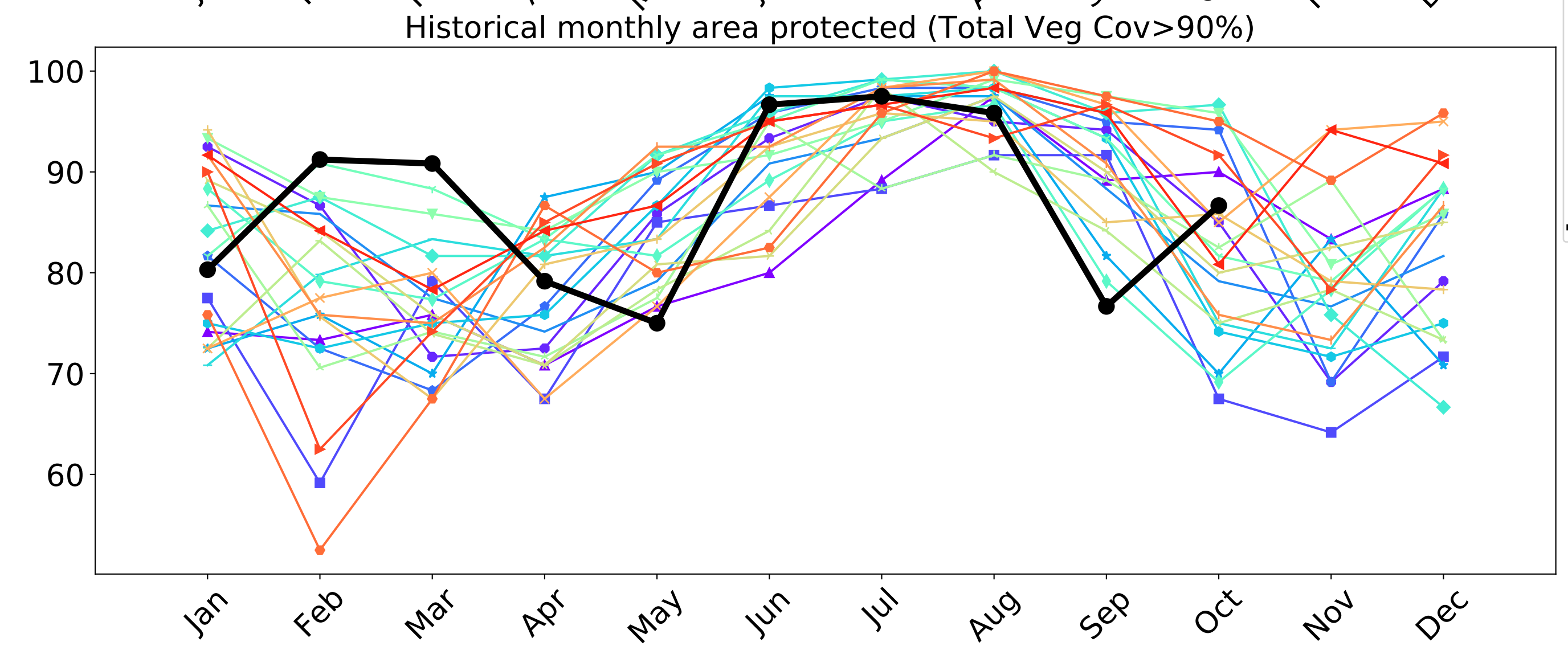
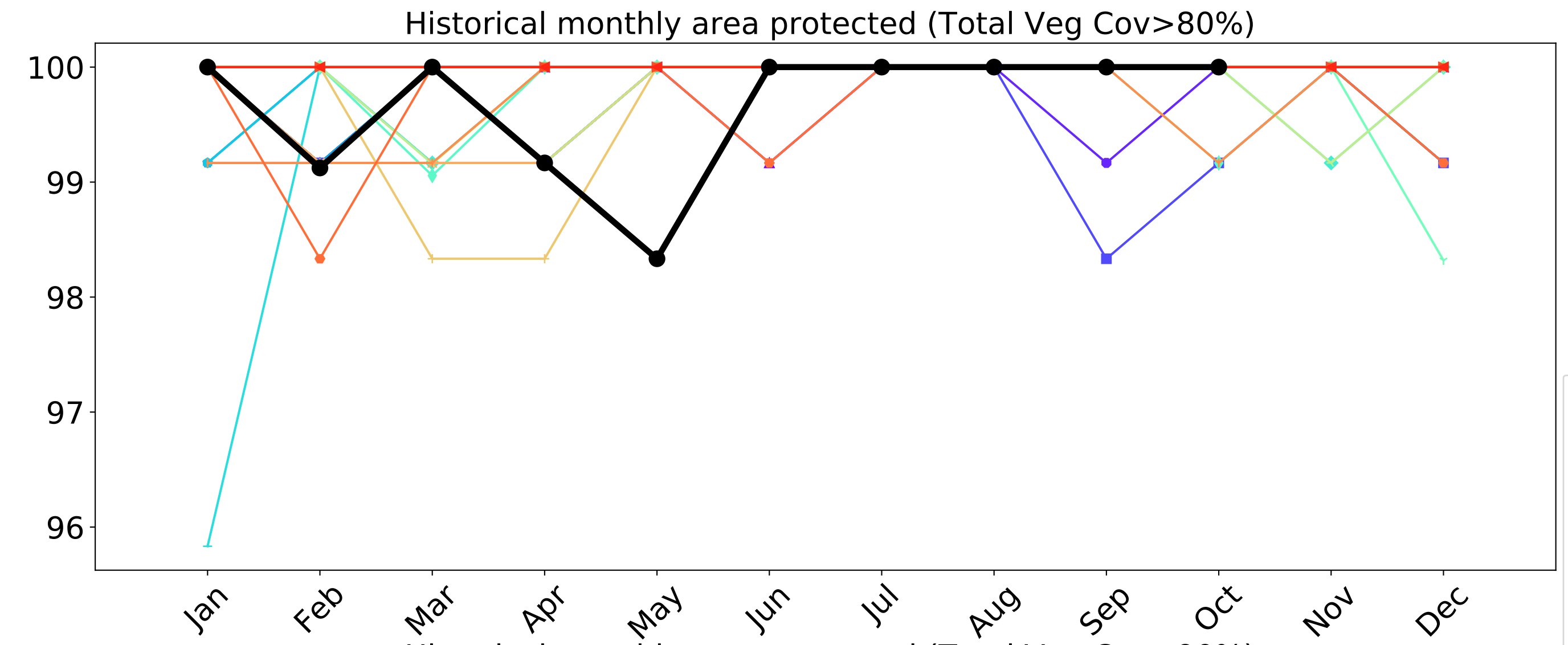
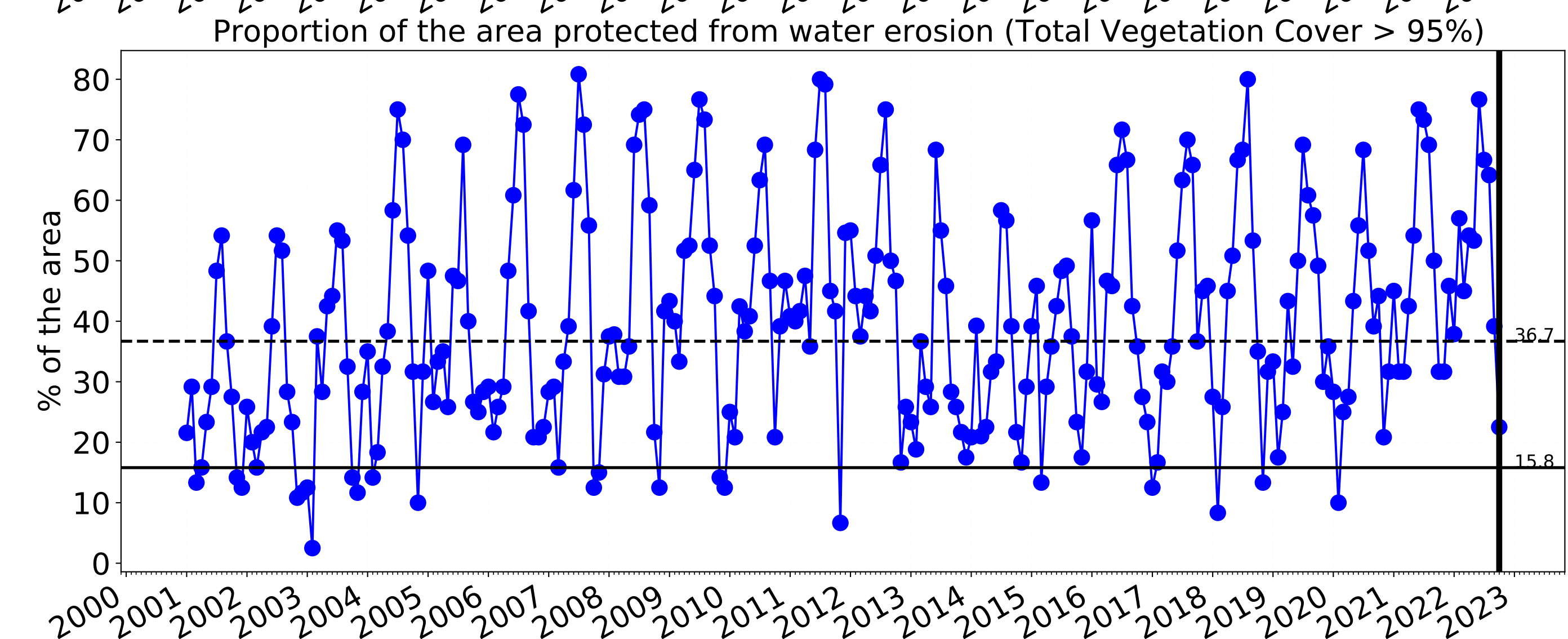
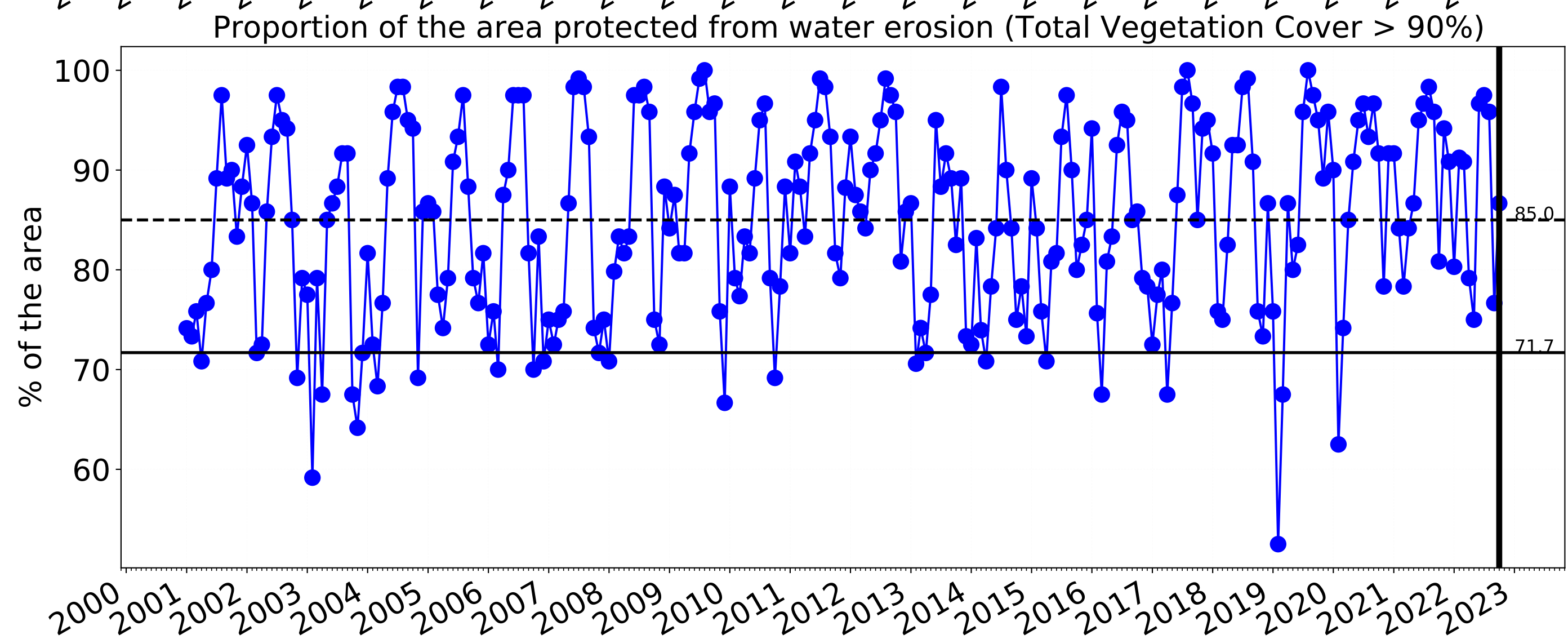
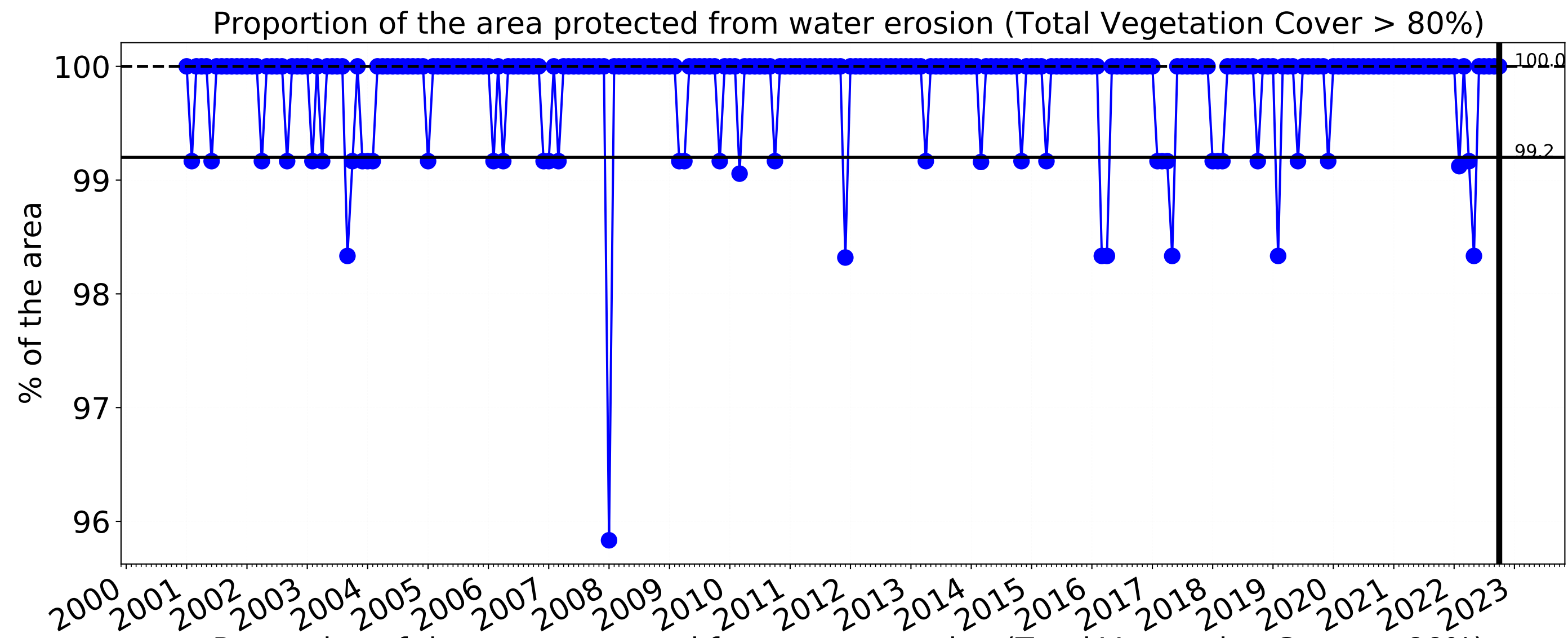




Grazing - Forest (non woodland) timeseries



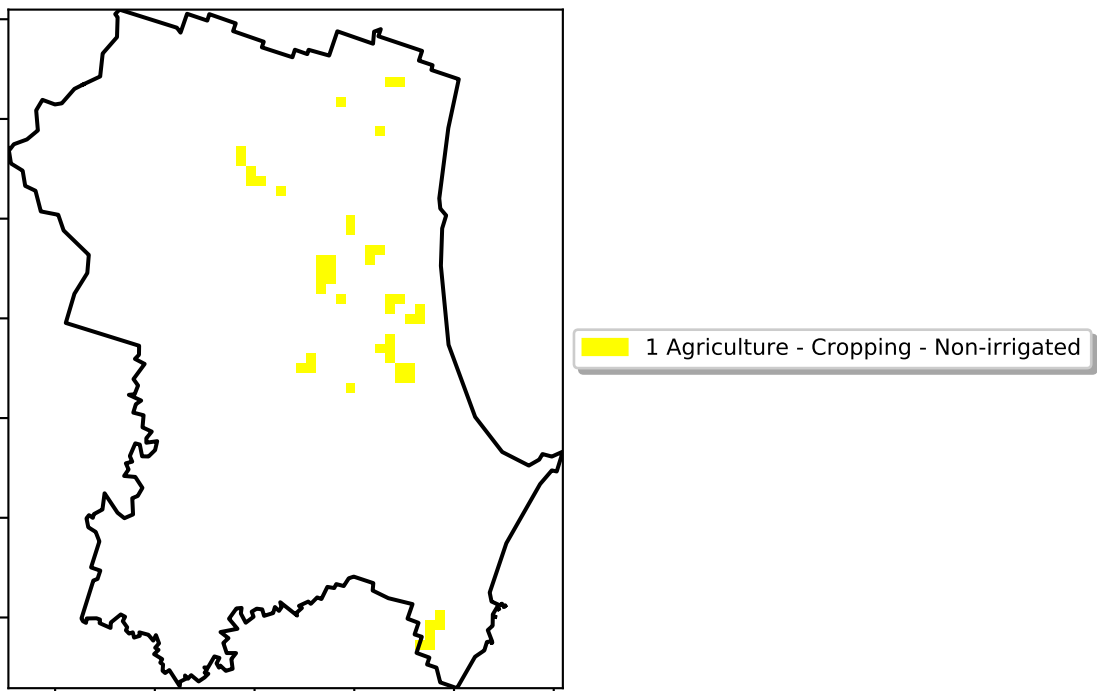






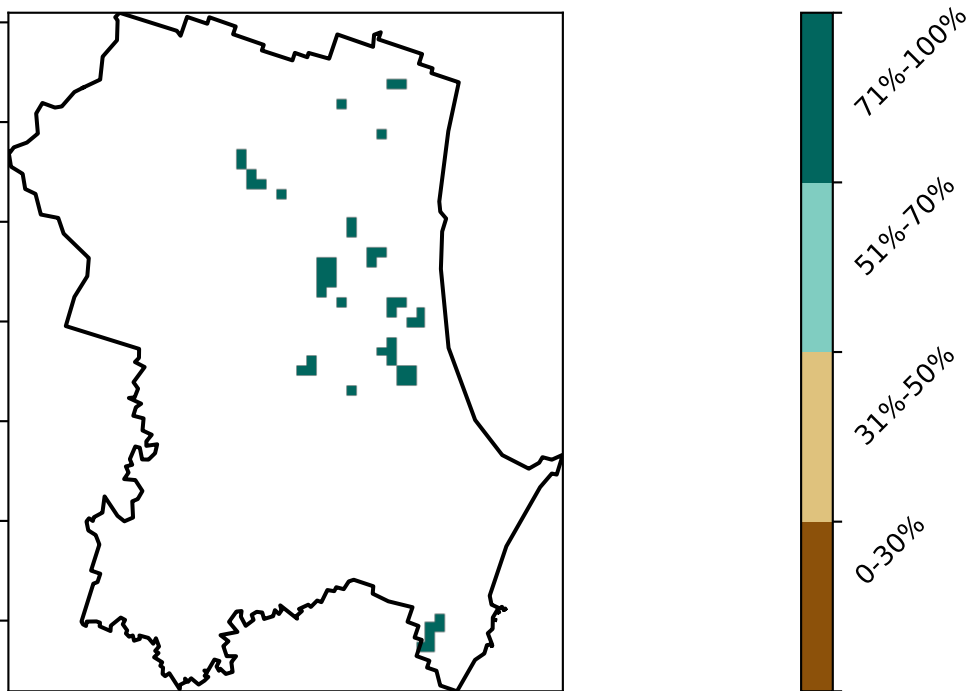
Cropping

Land use and forest cover

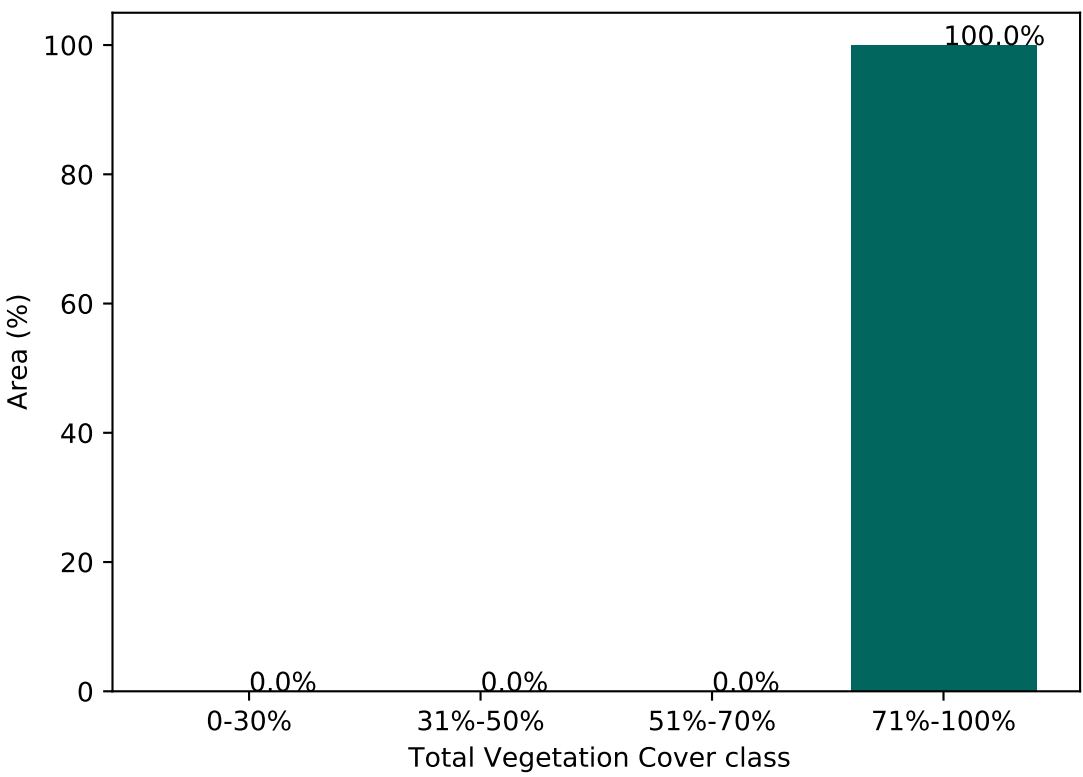


Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)

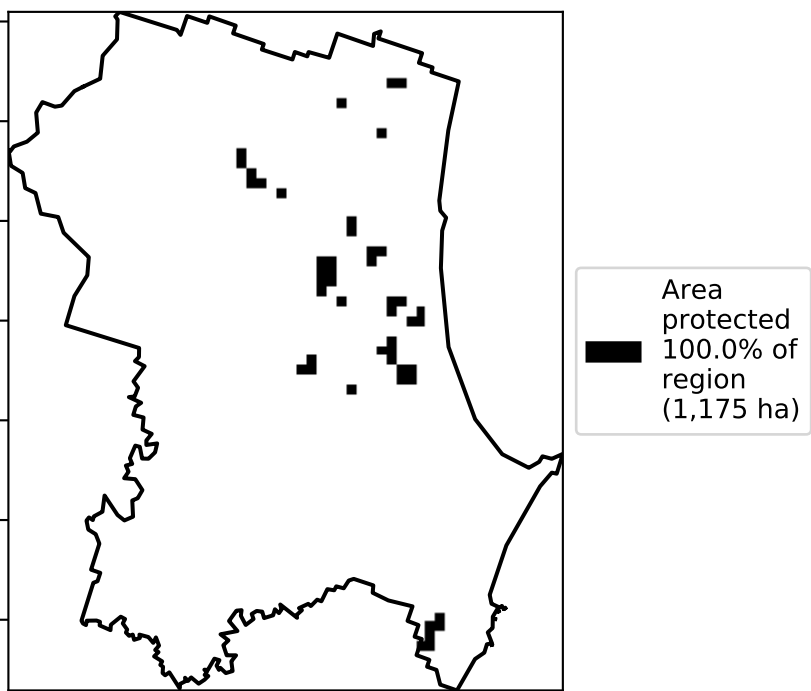
Total Vegetation Cover [%]



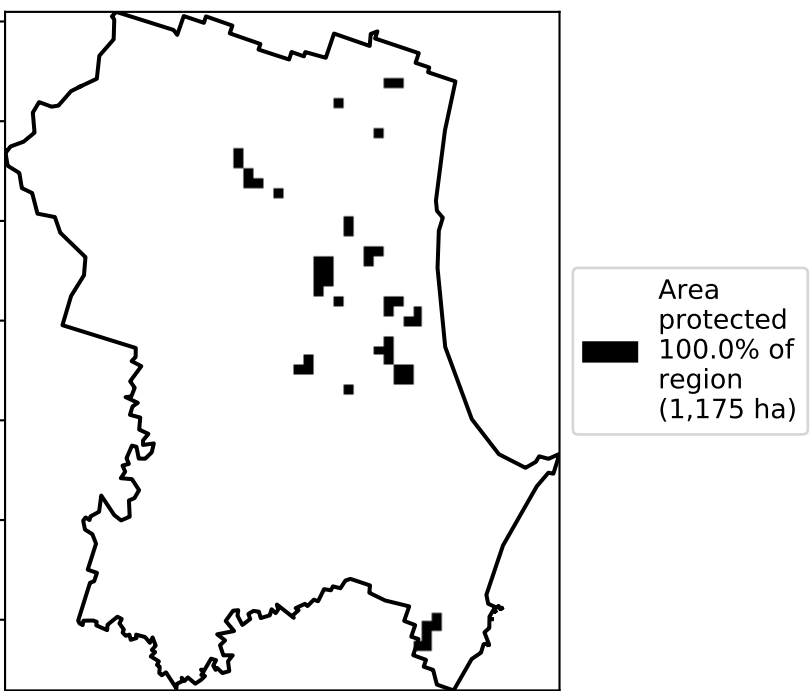
Proportion of vegetation cover class in area



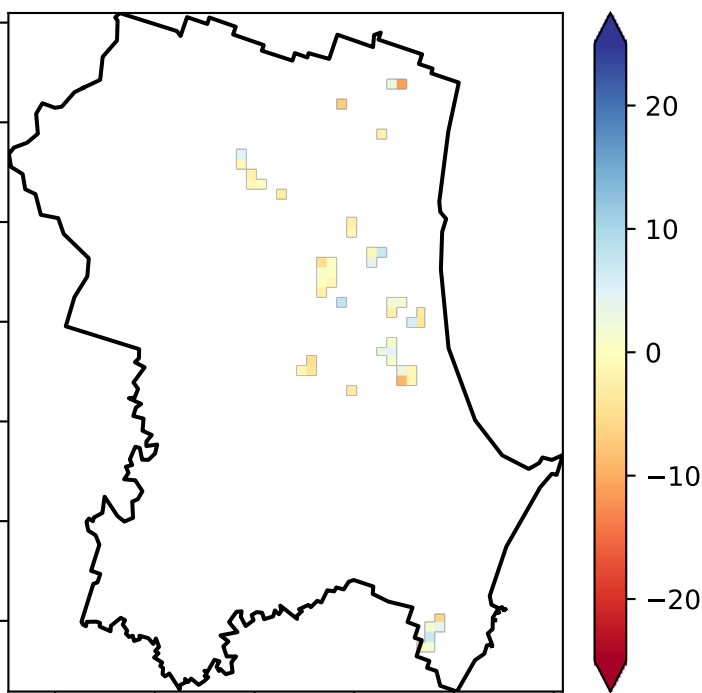
% Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)

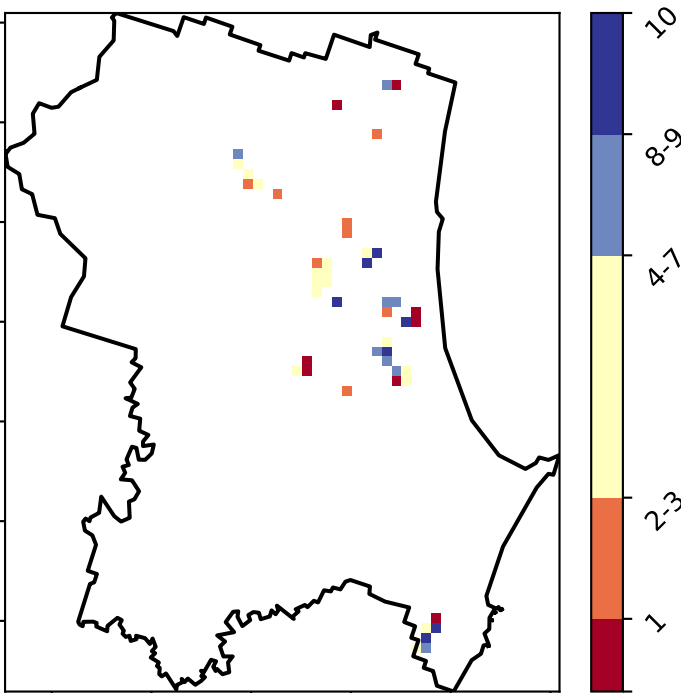


Total Vegetation Cover Anomaly [%]



Anomaly show how  
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Total Vegetation Cover Decile [%]



Deciles show where the  
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the map using baseline  
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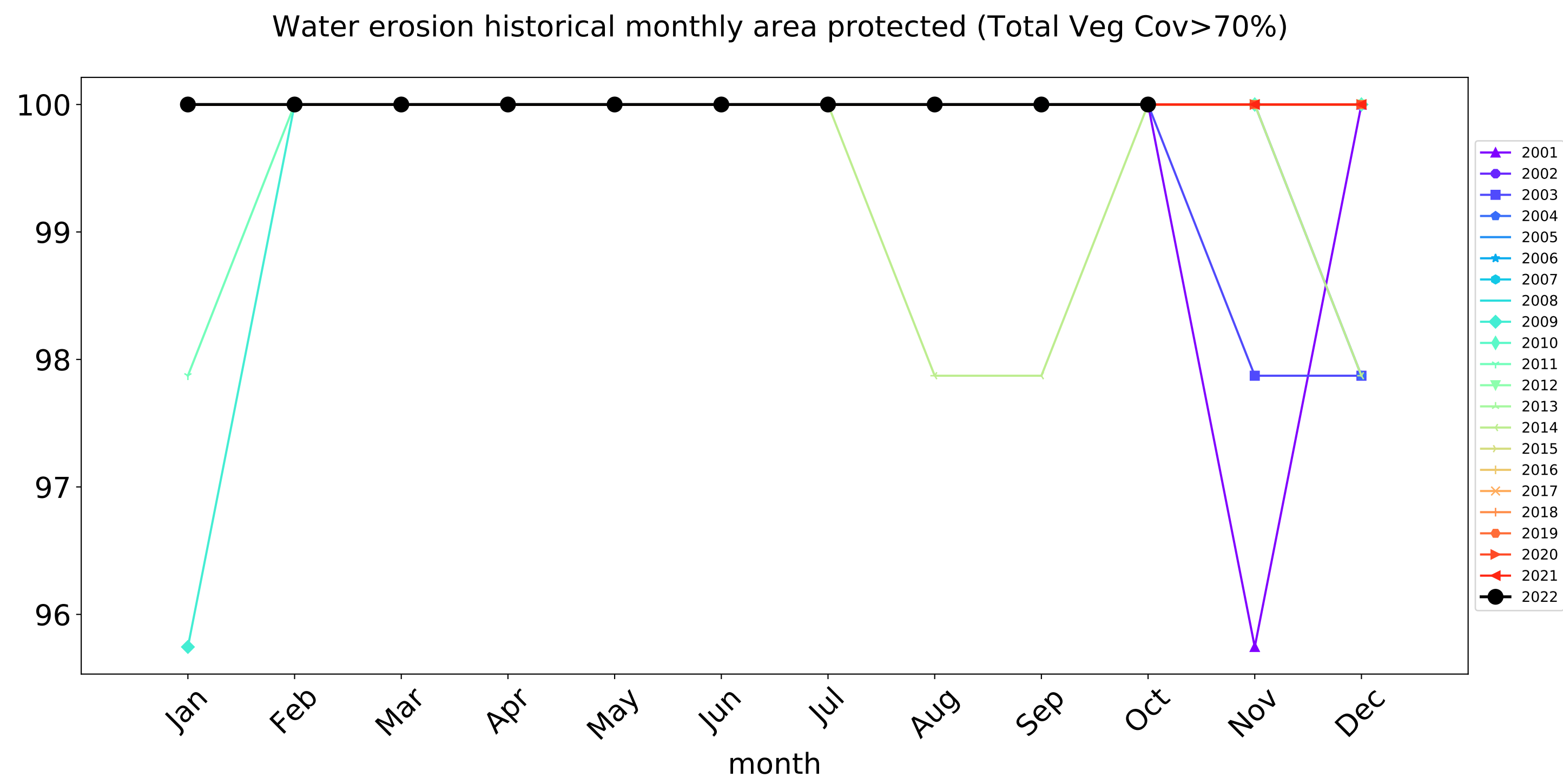
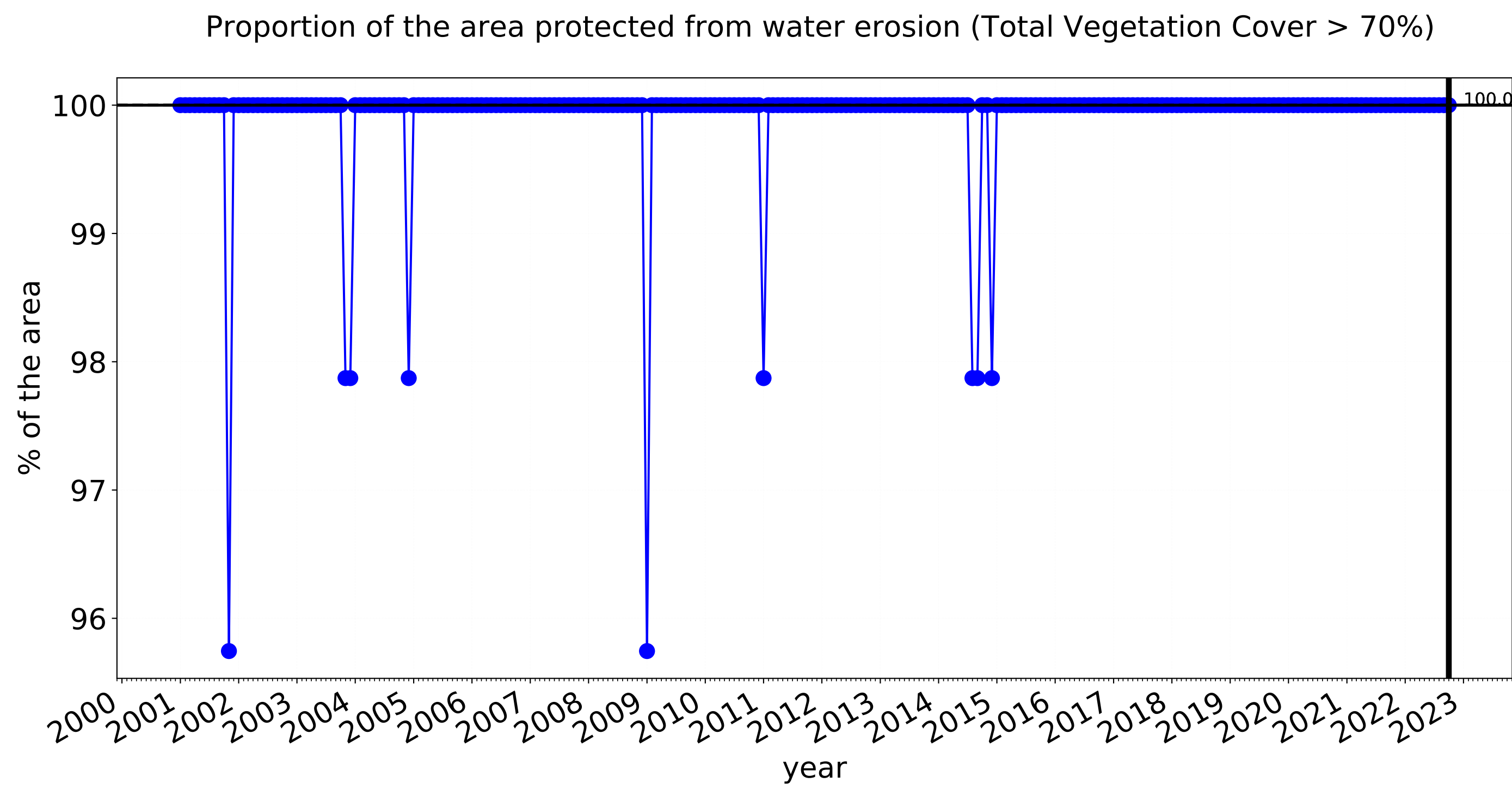
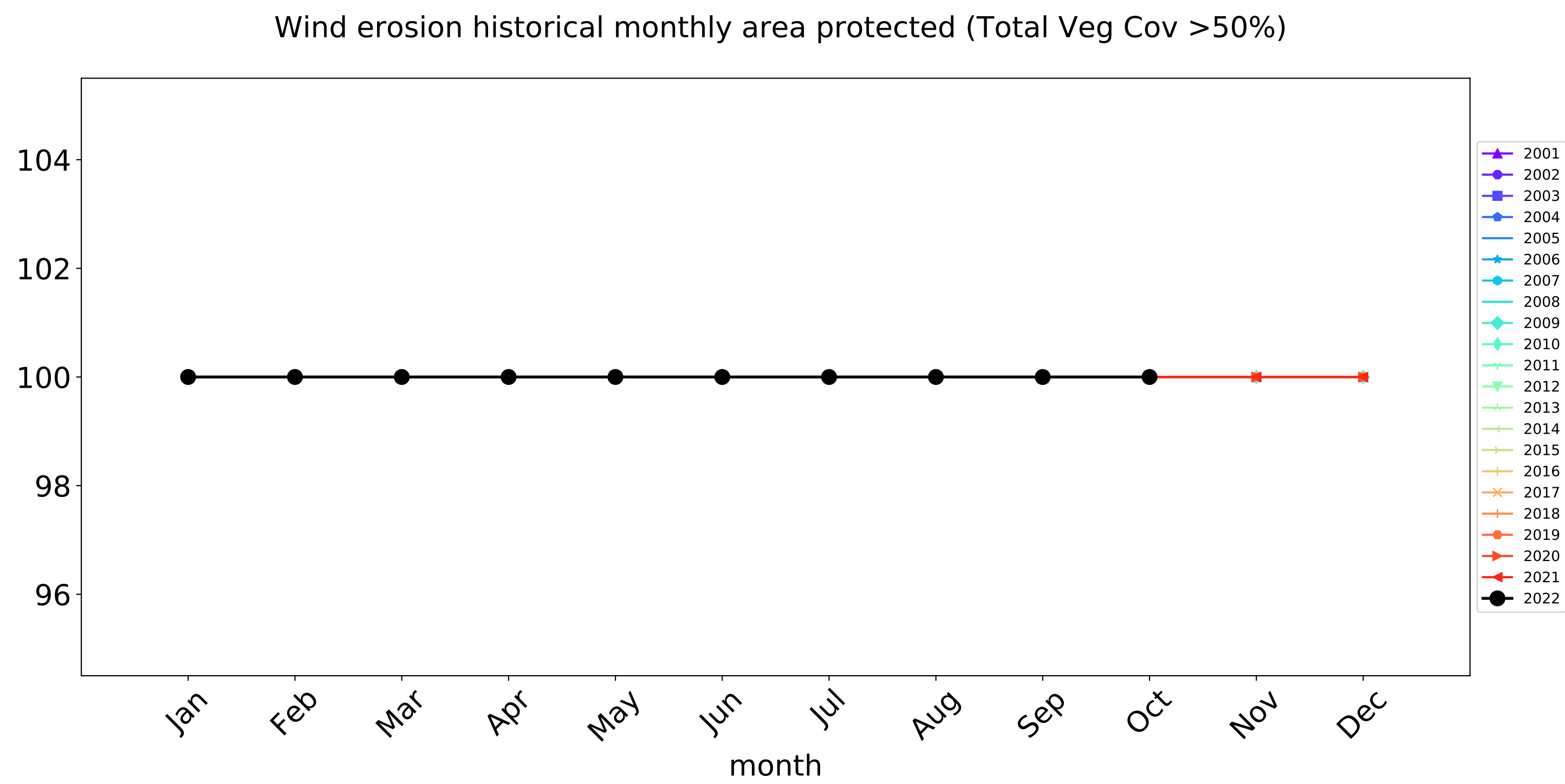
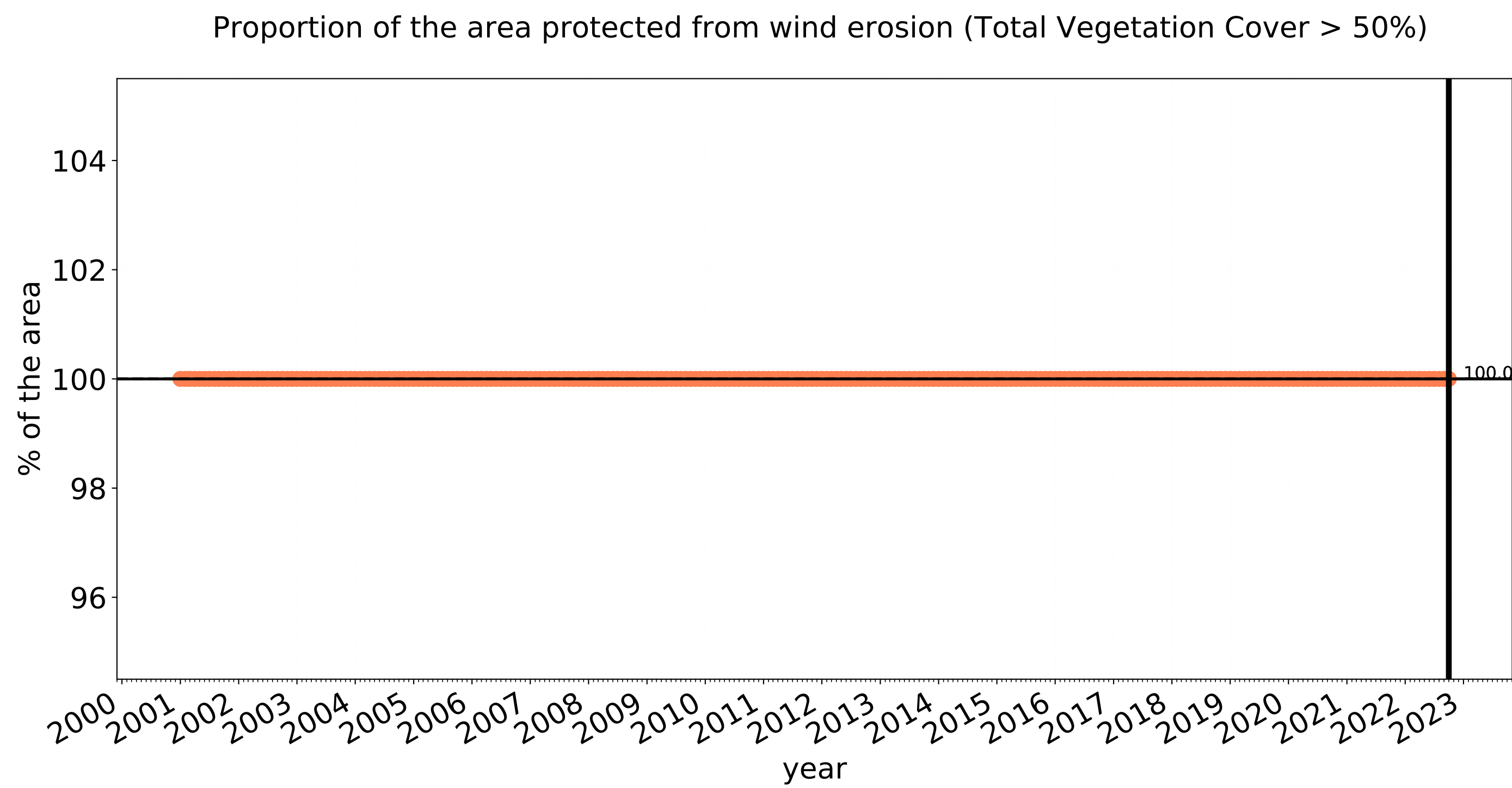
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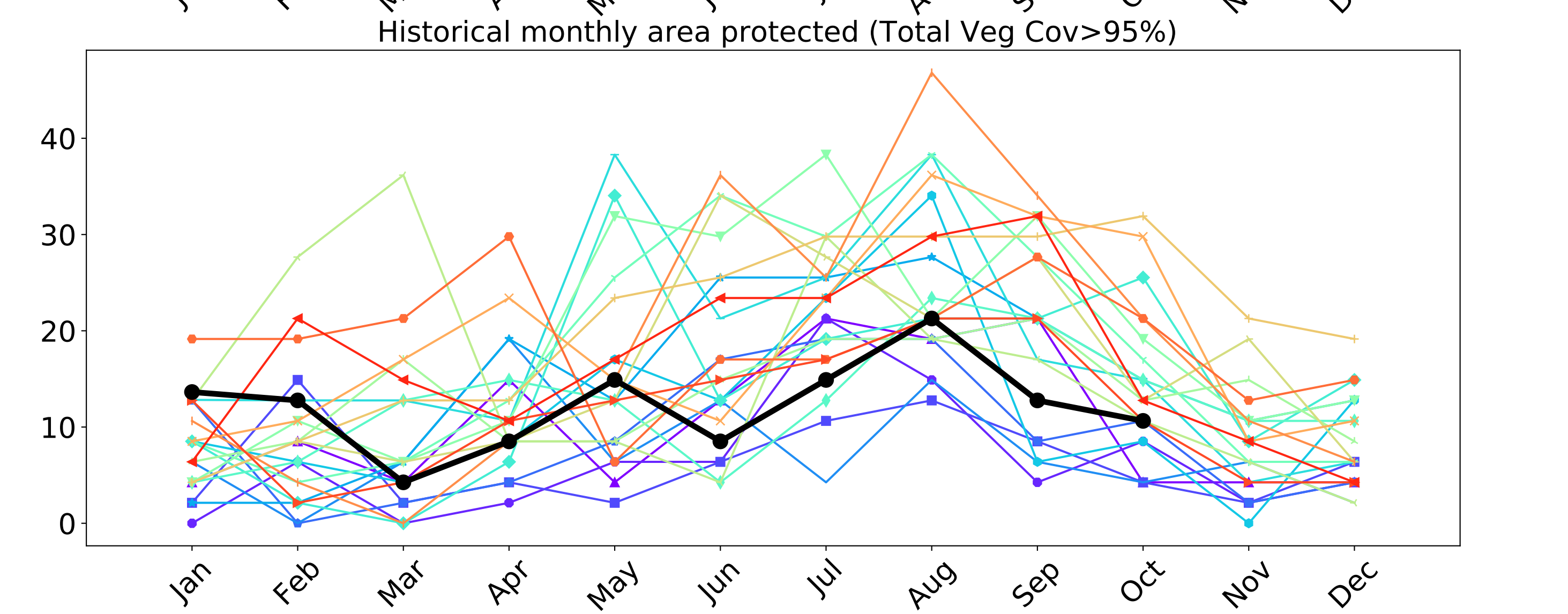
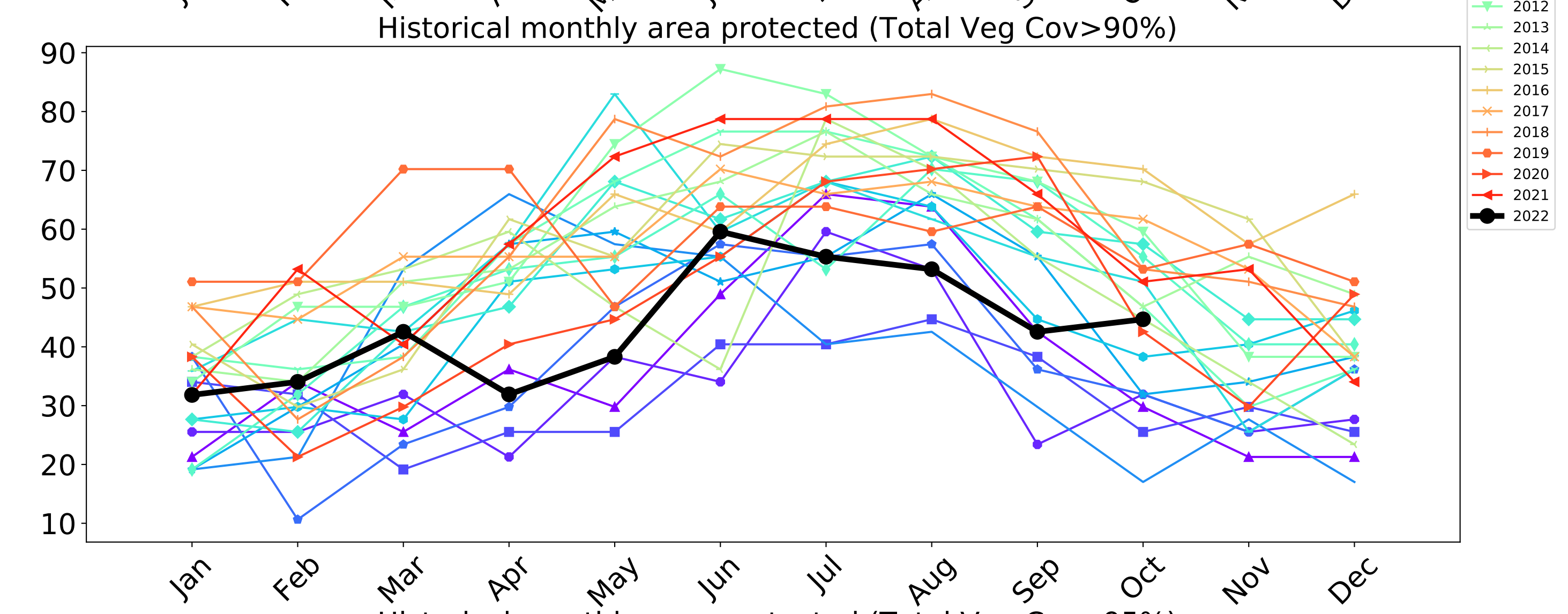
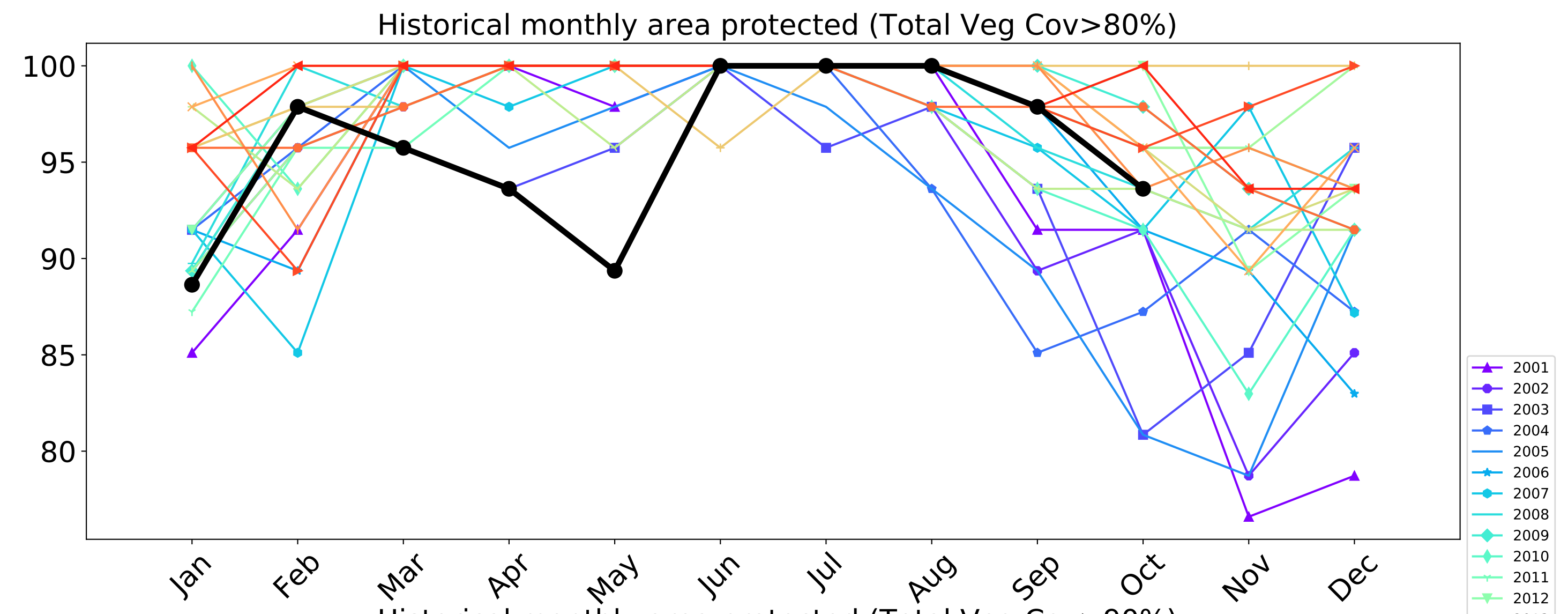
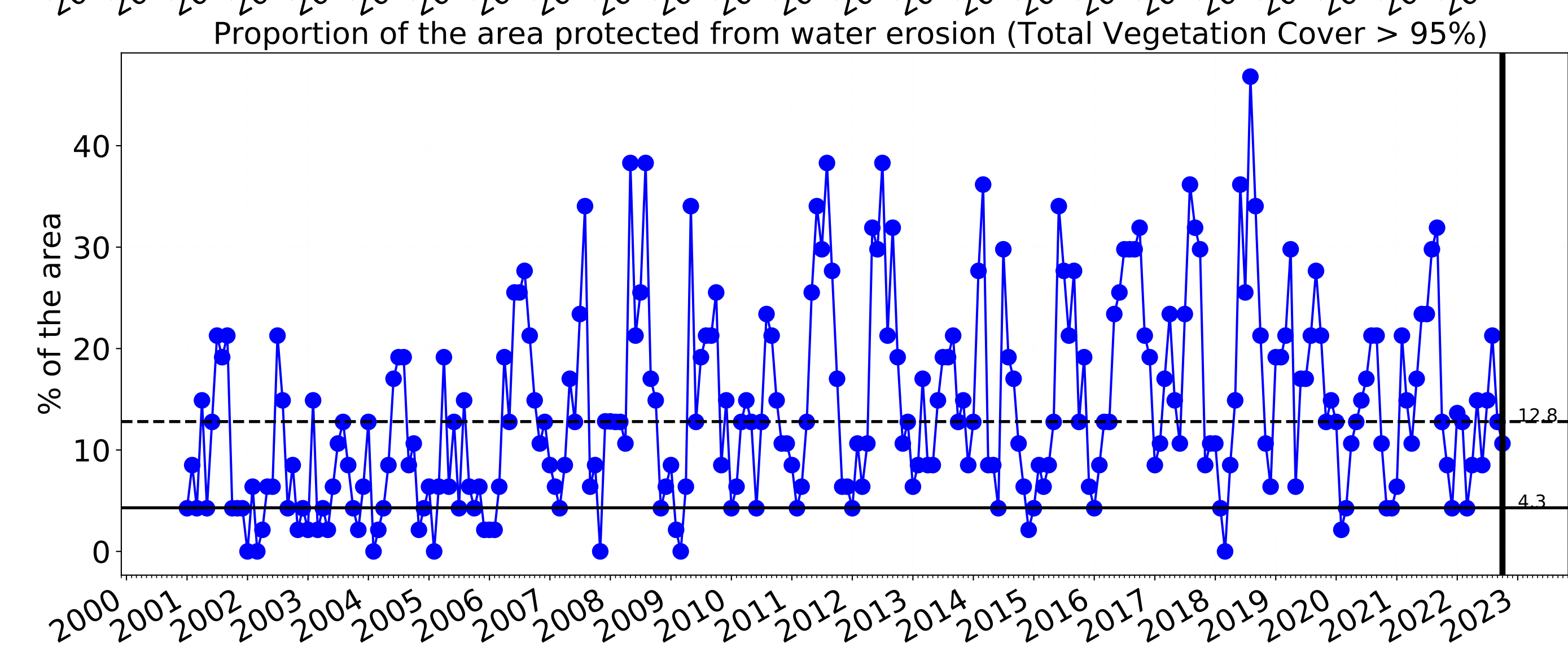
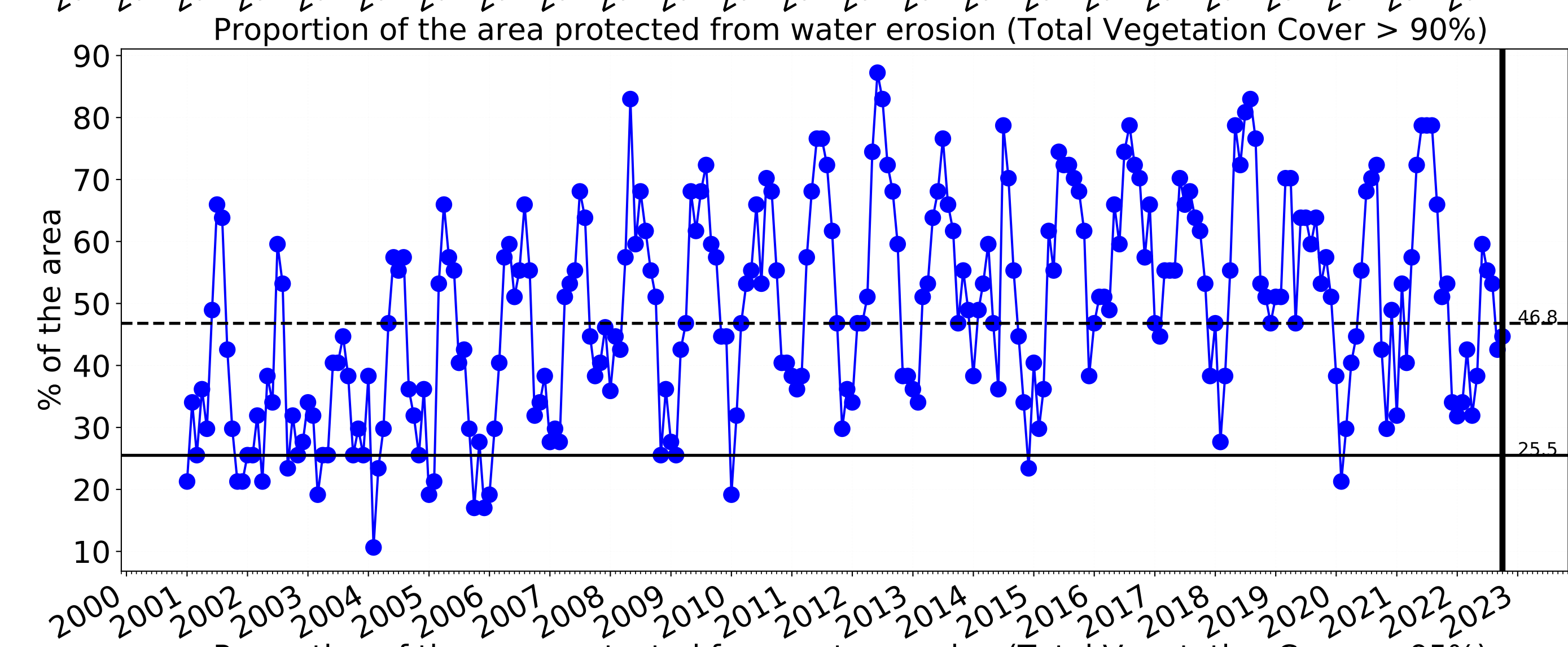
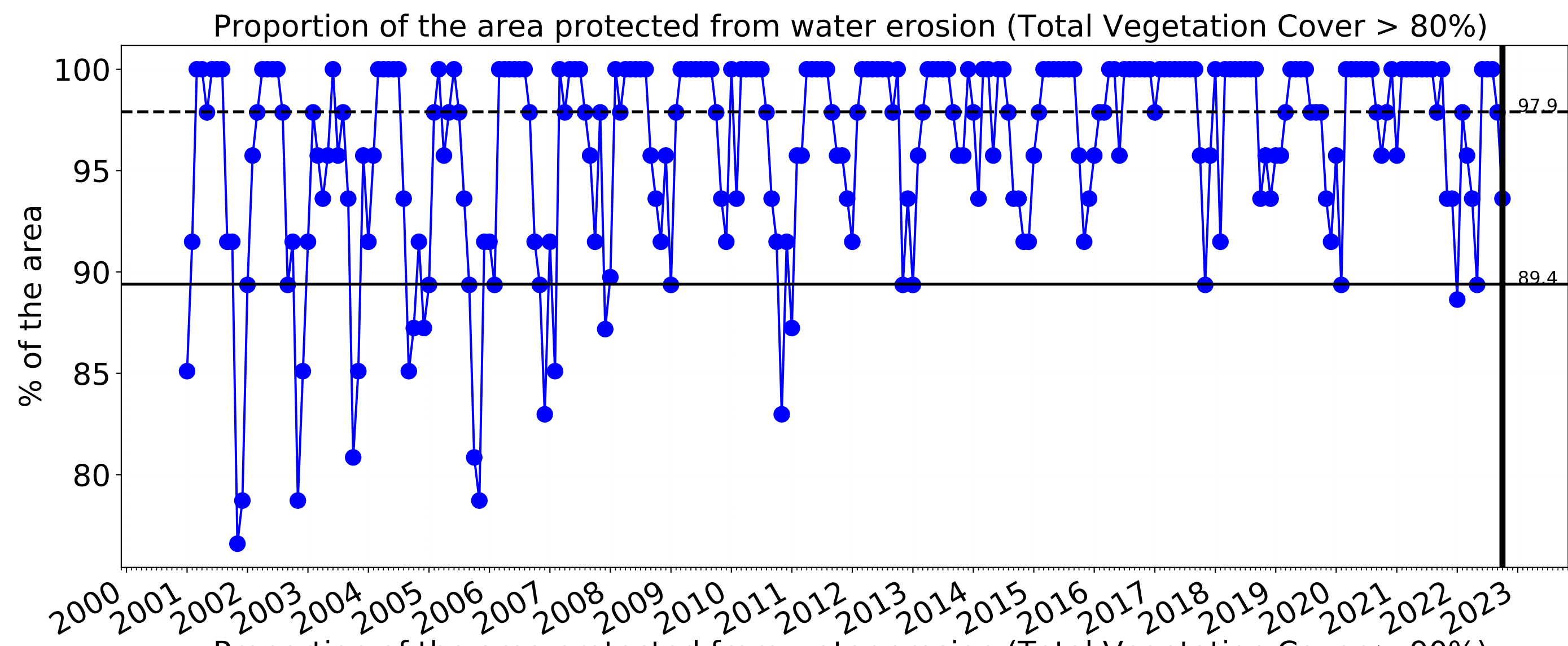




Cropping timeseries



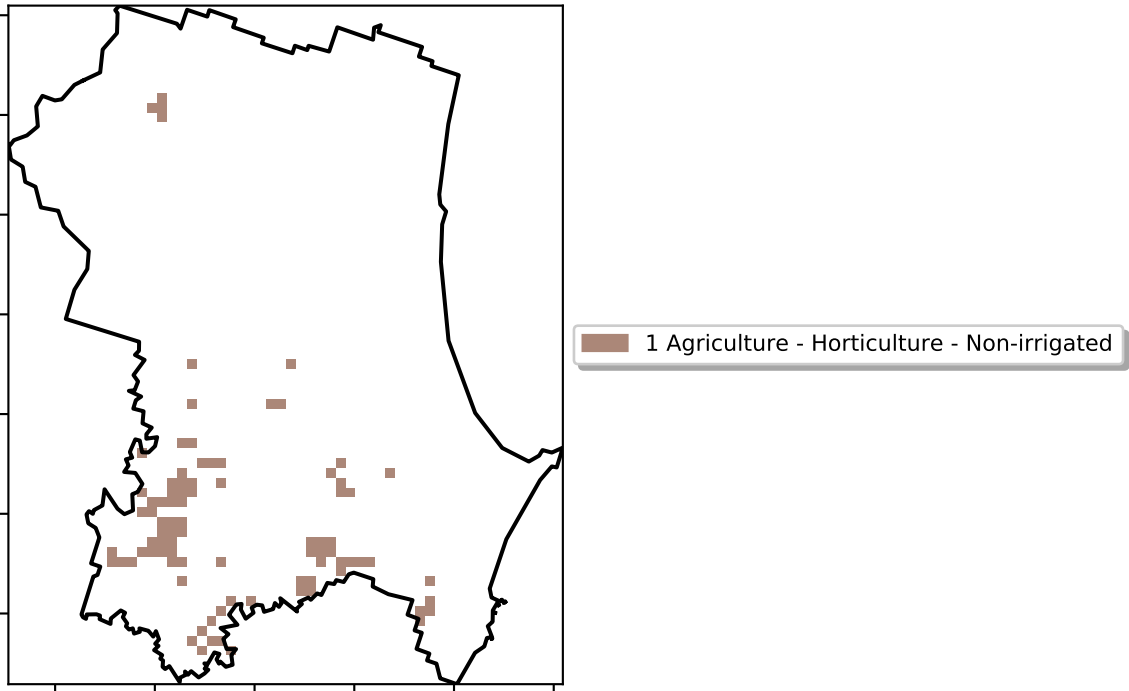






Horticulture

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



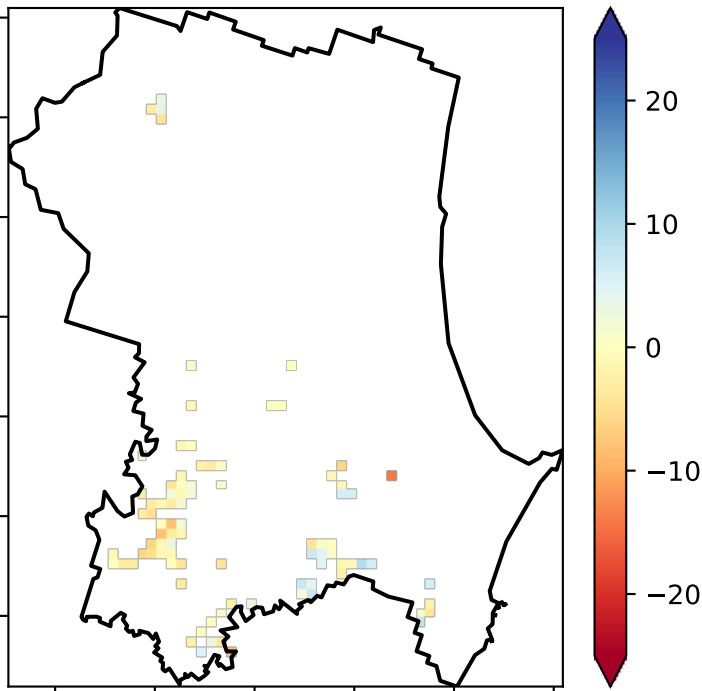
% Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)

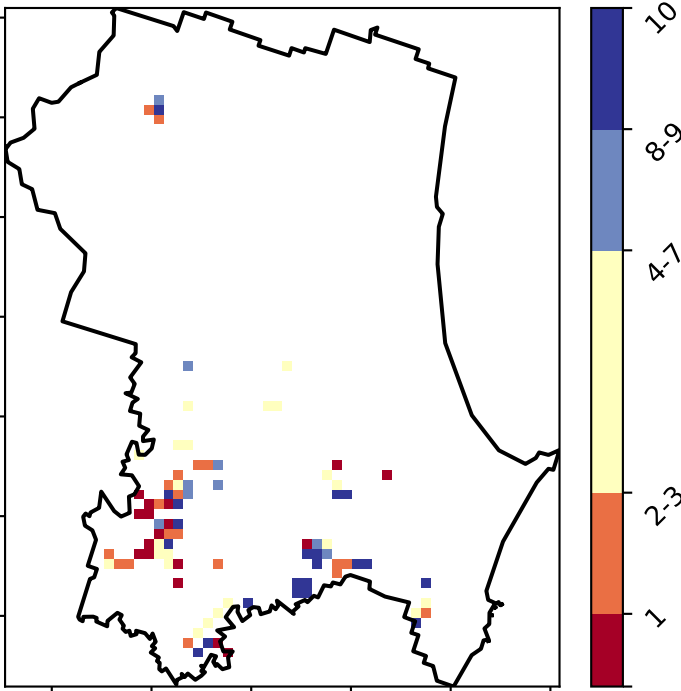


Total Vegetation Cover Anomaly [%]



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Total Vegetation Cover Decile [%]



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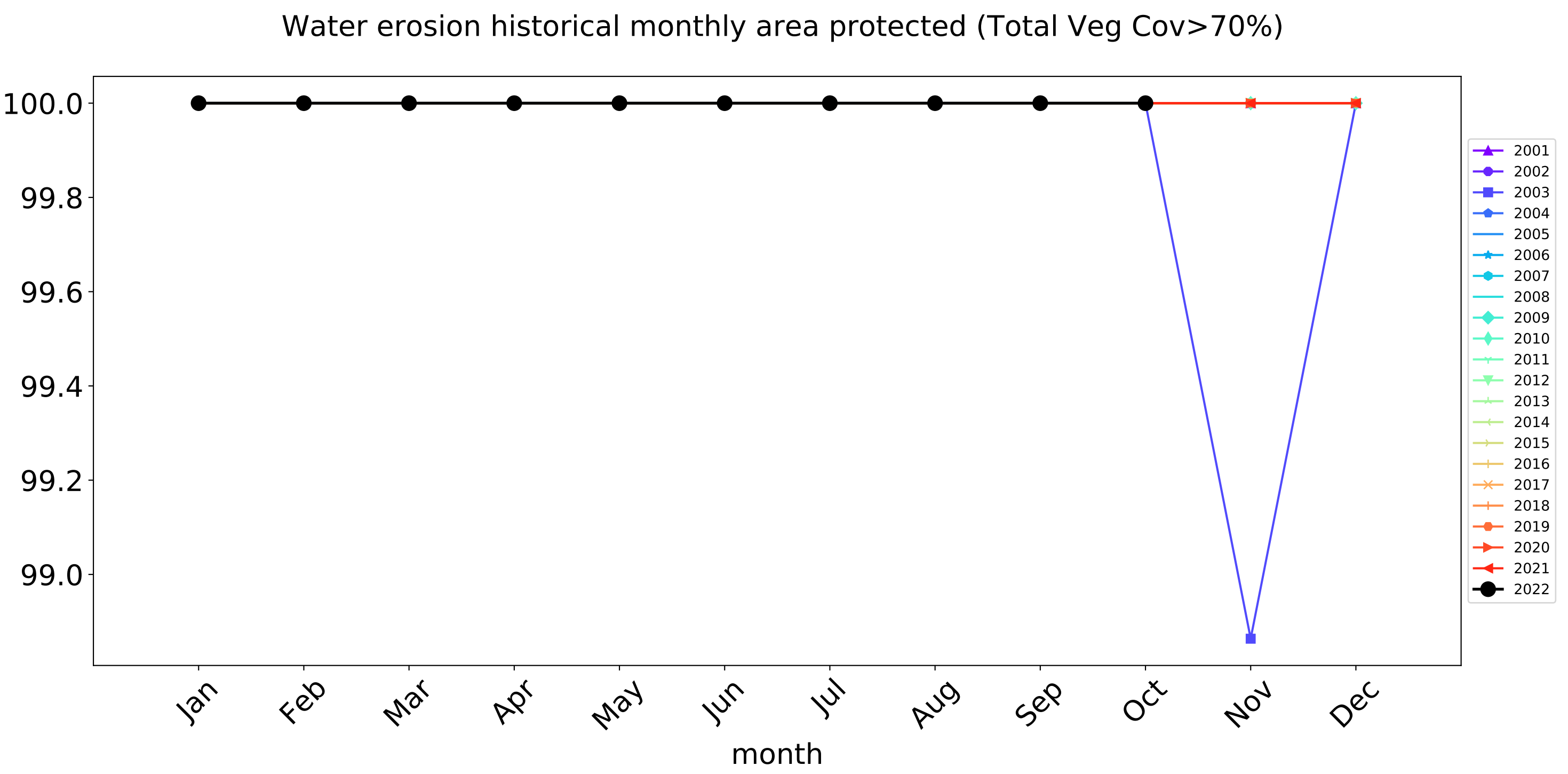
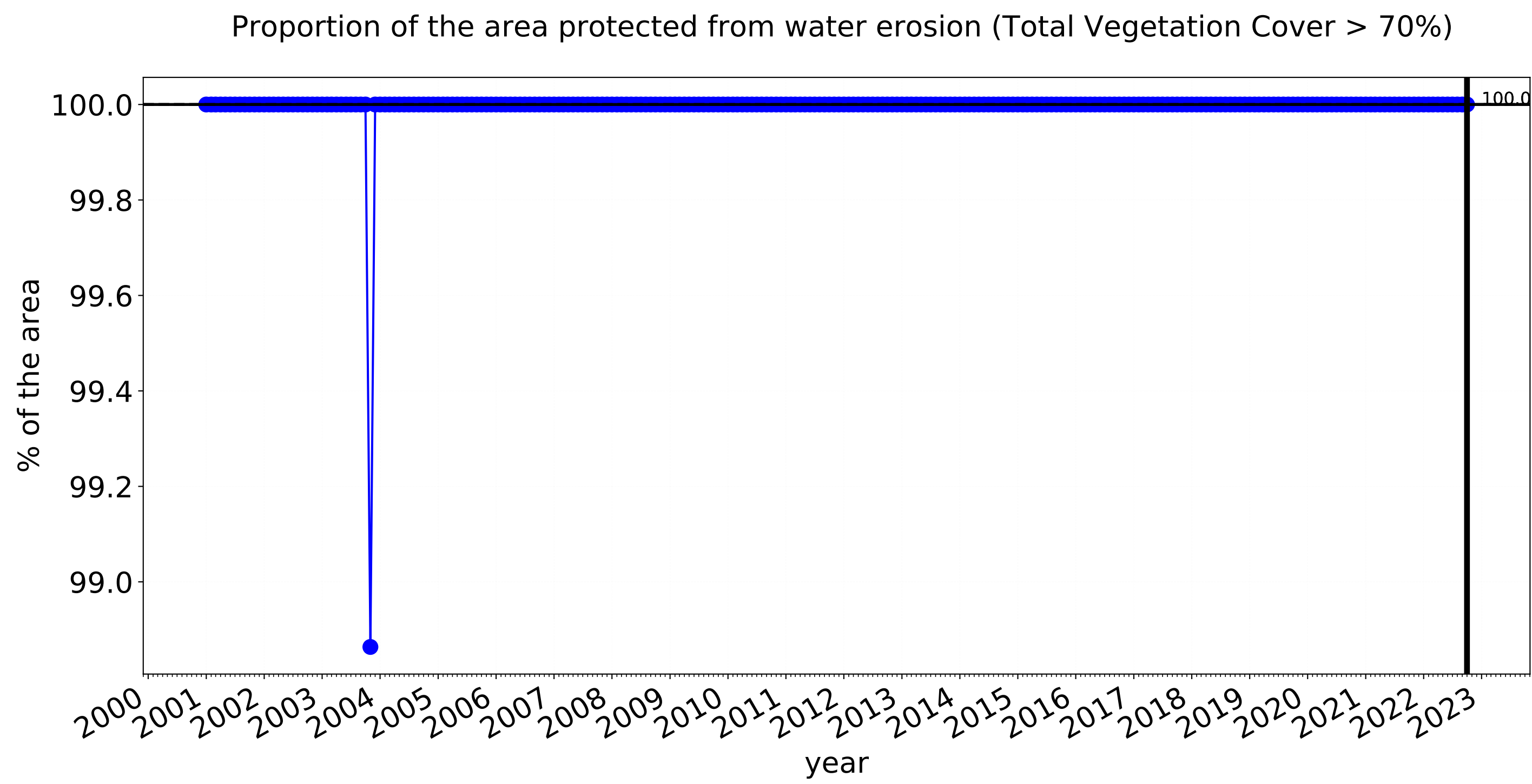
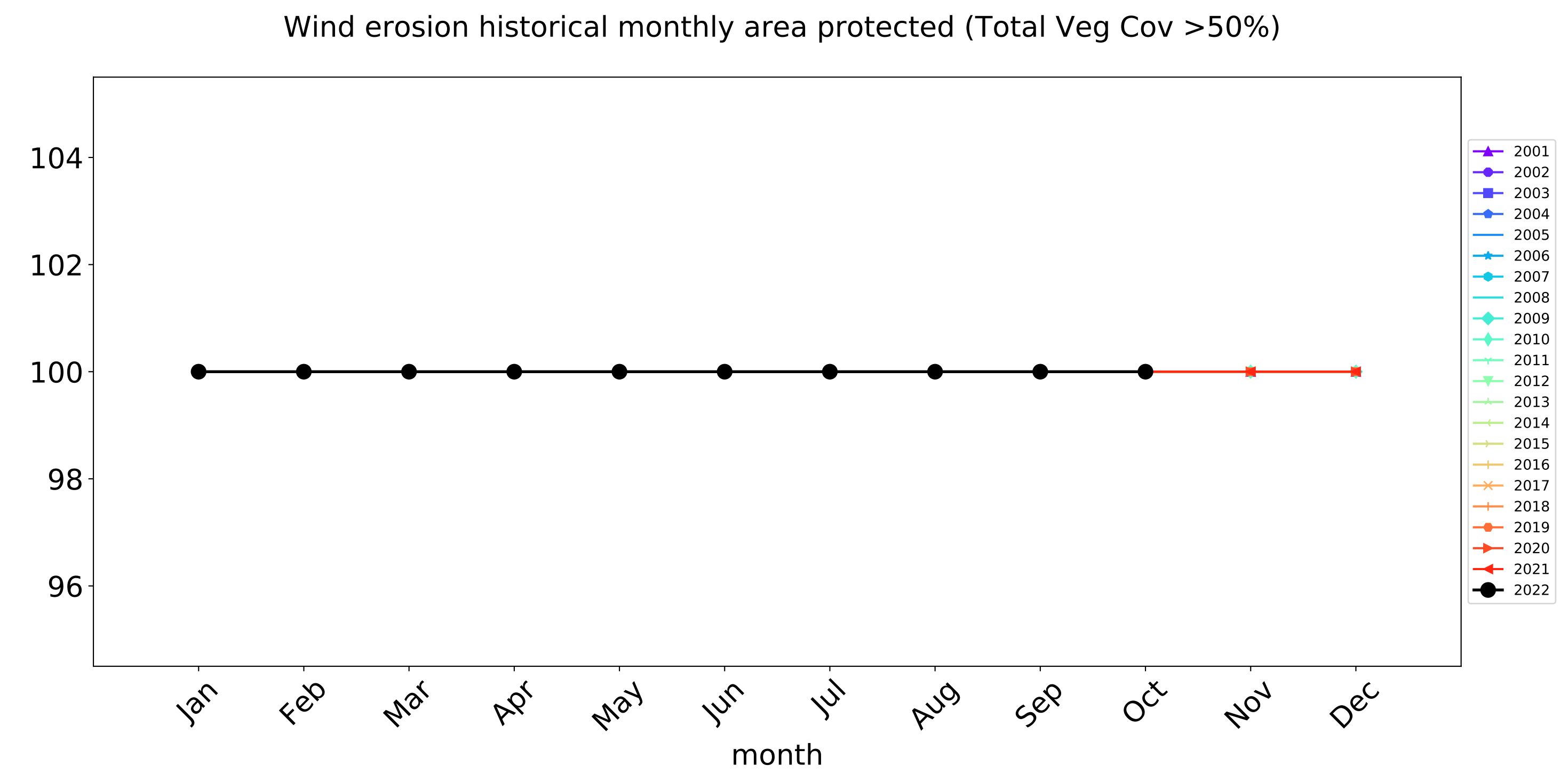
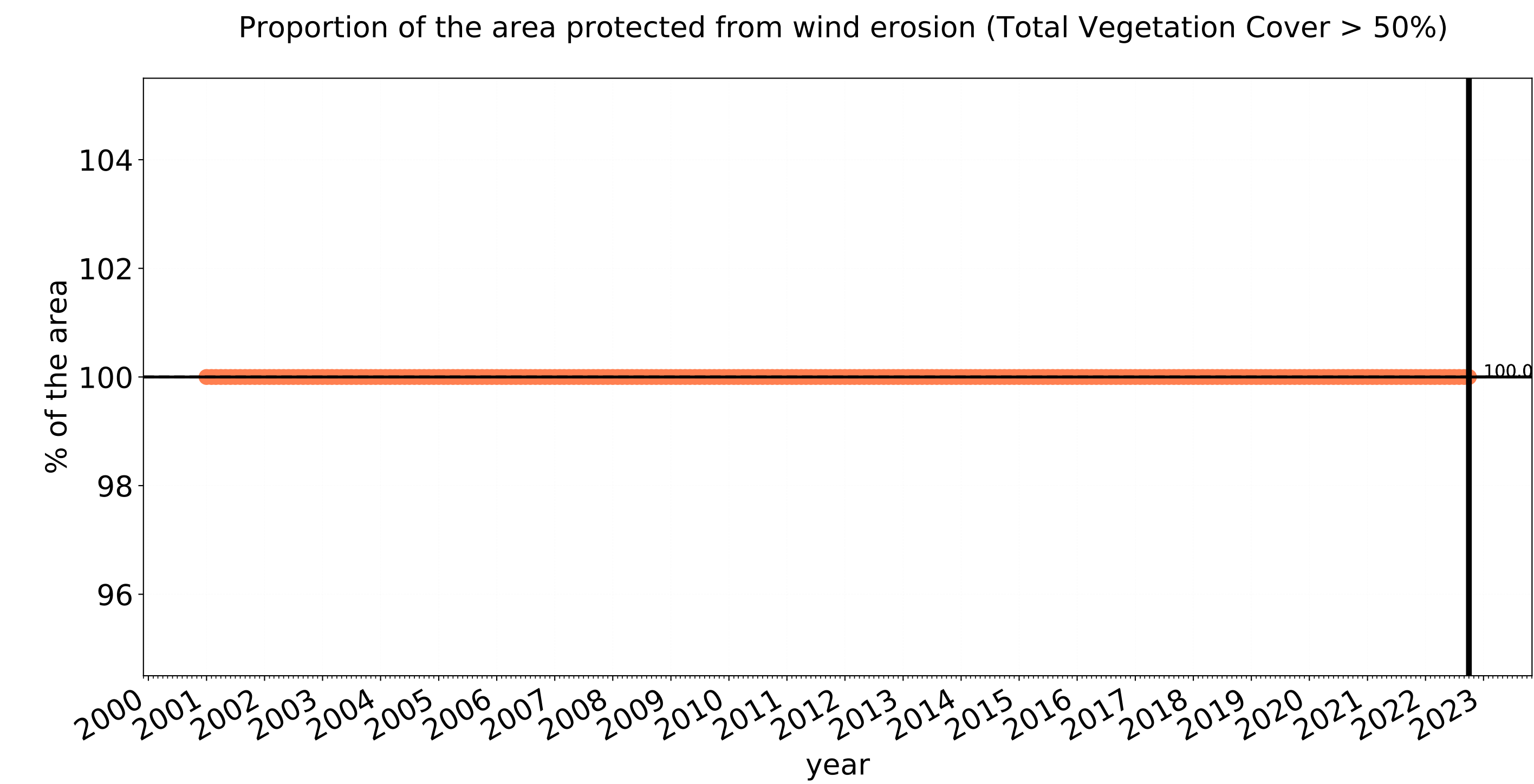
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Horticulture timeseries



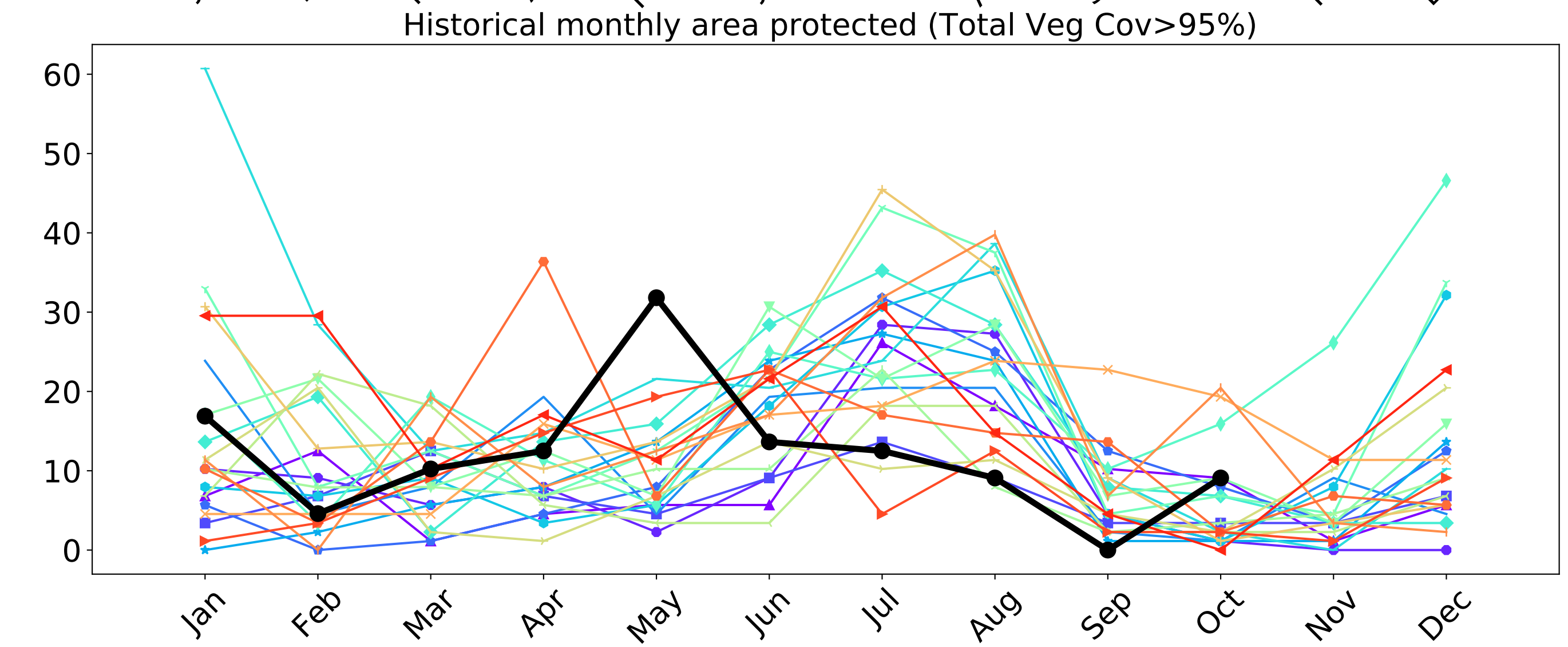
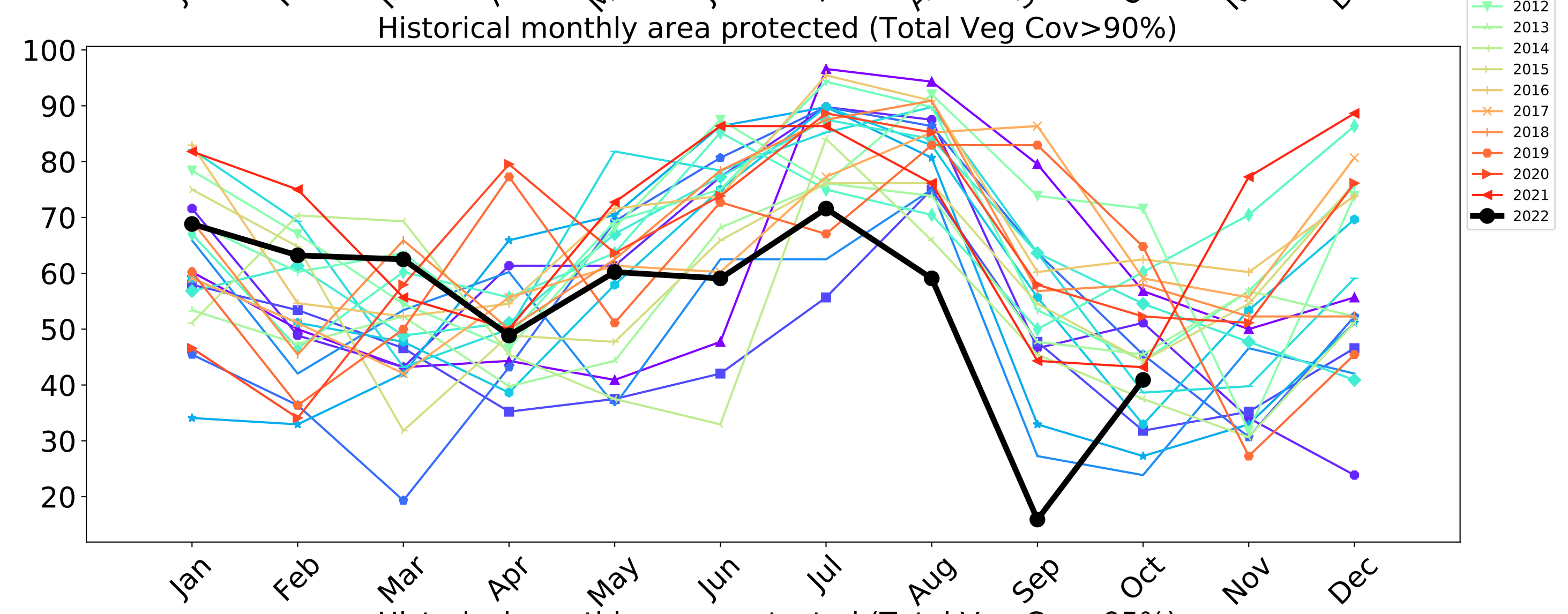
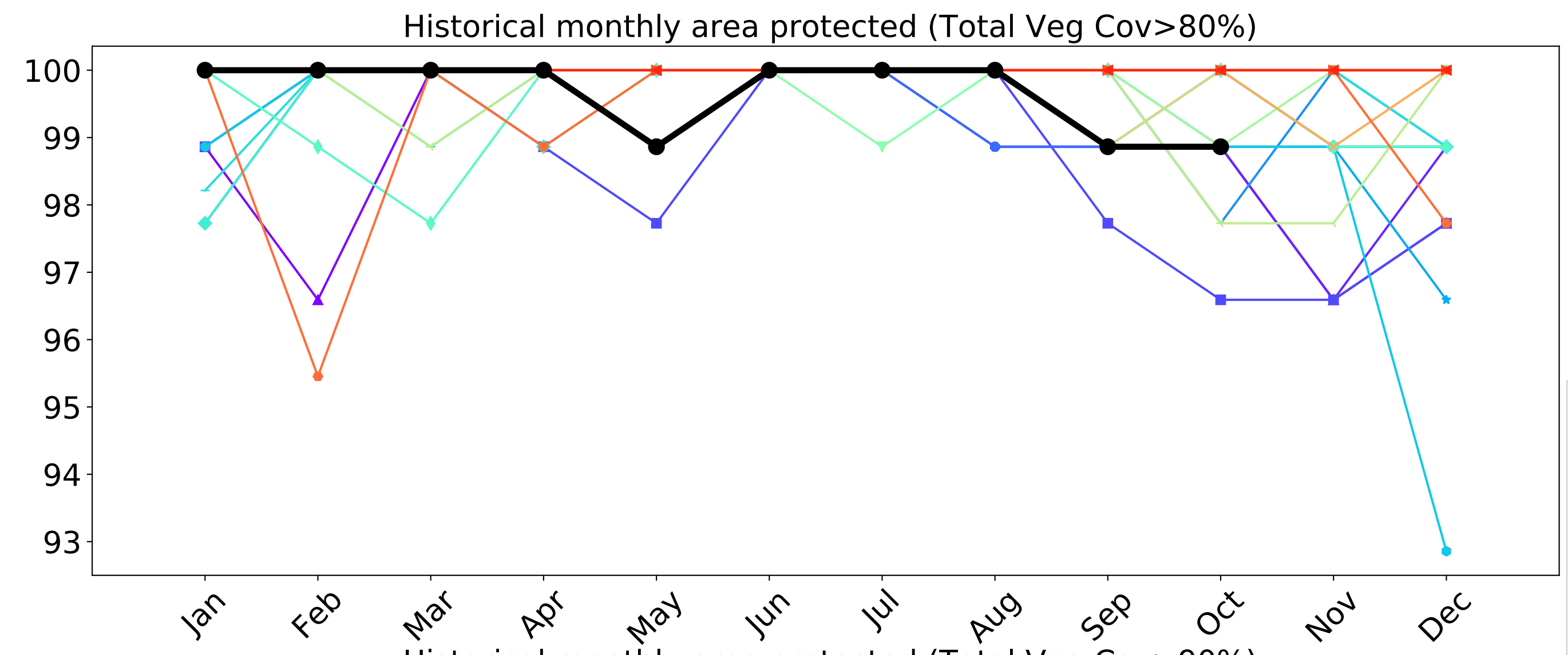
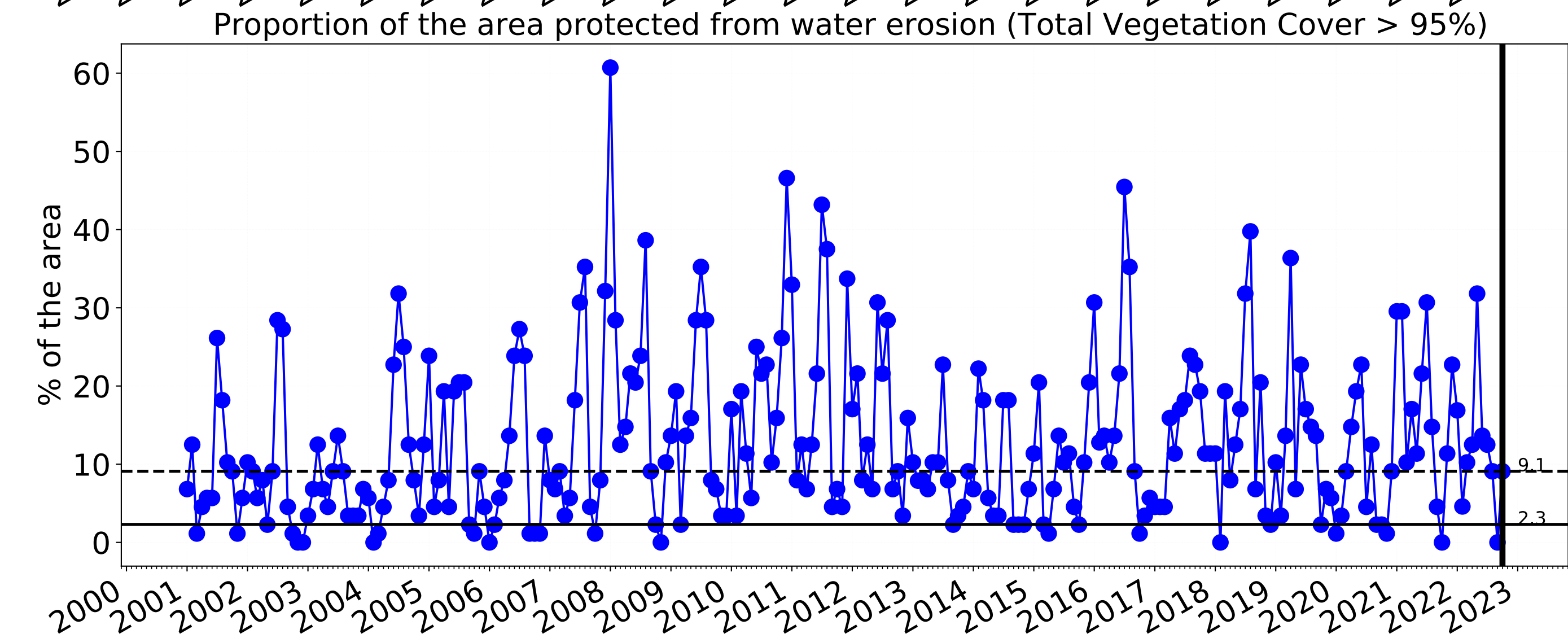
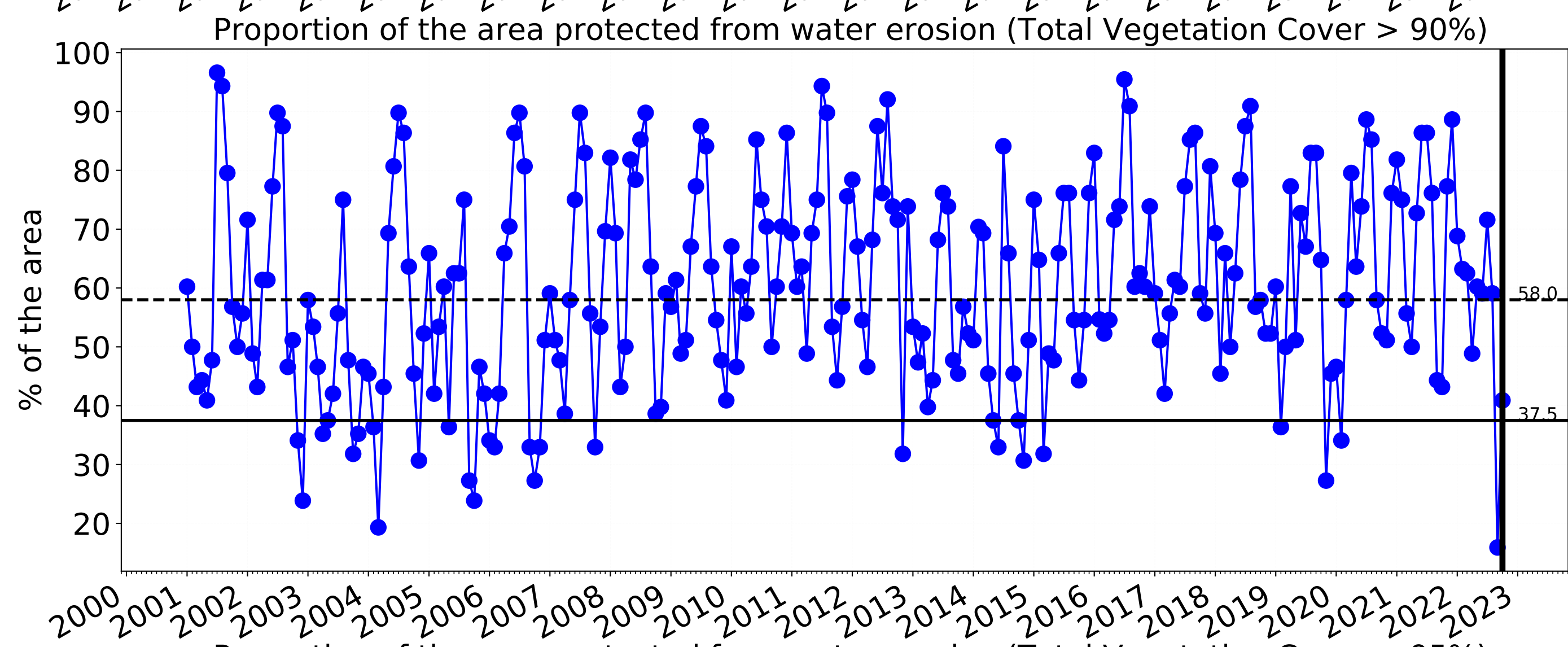
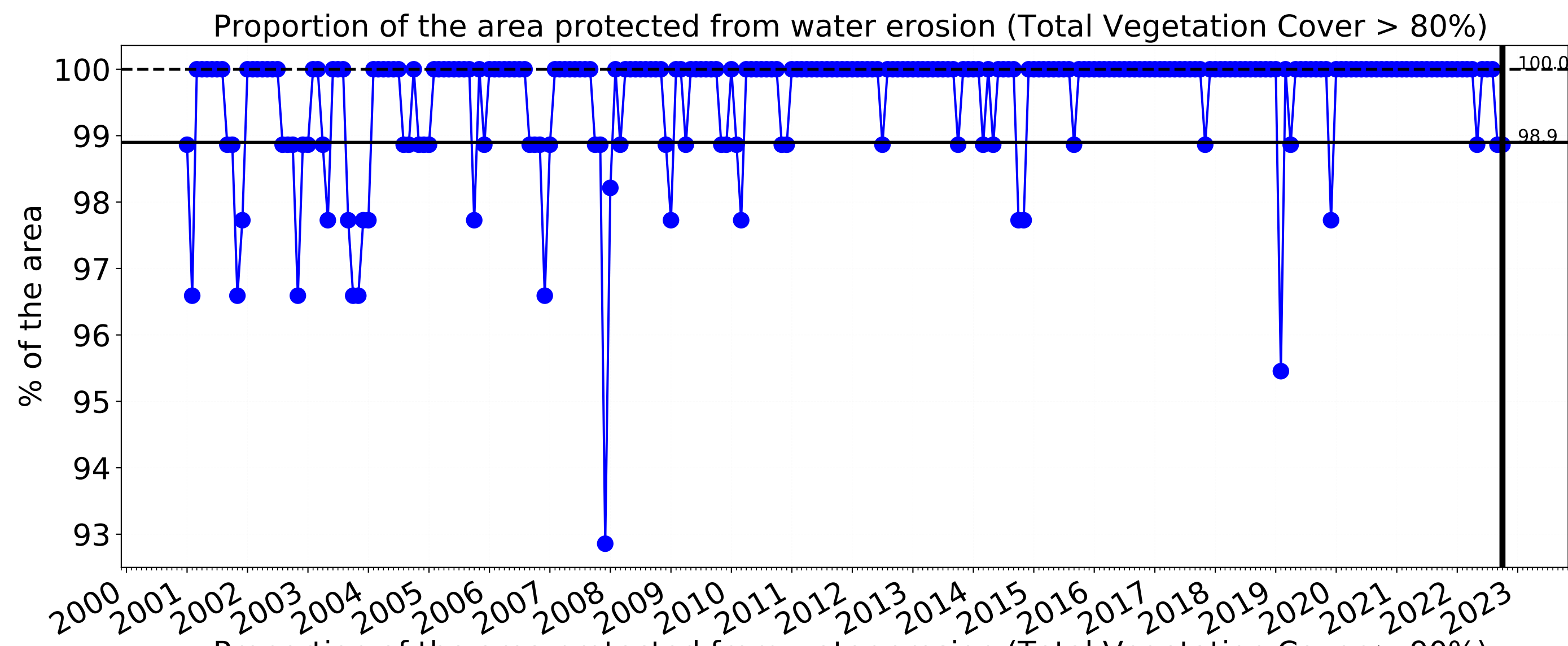
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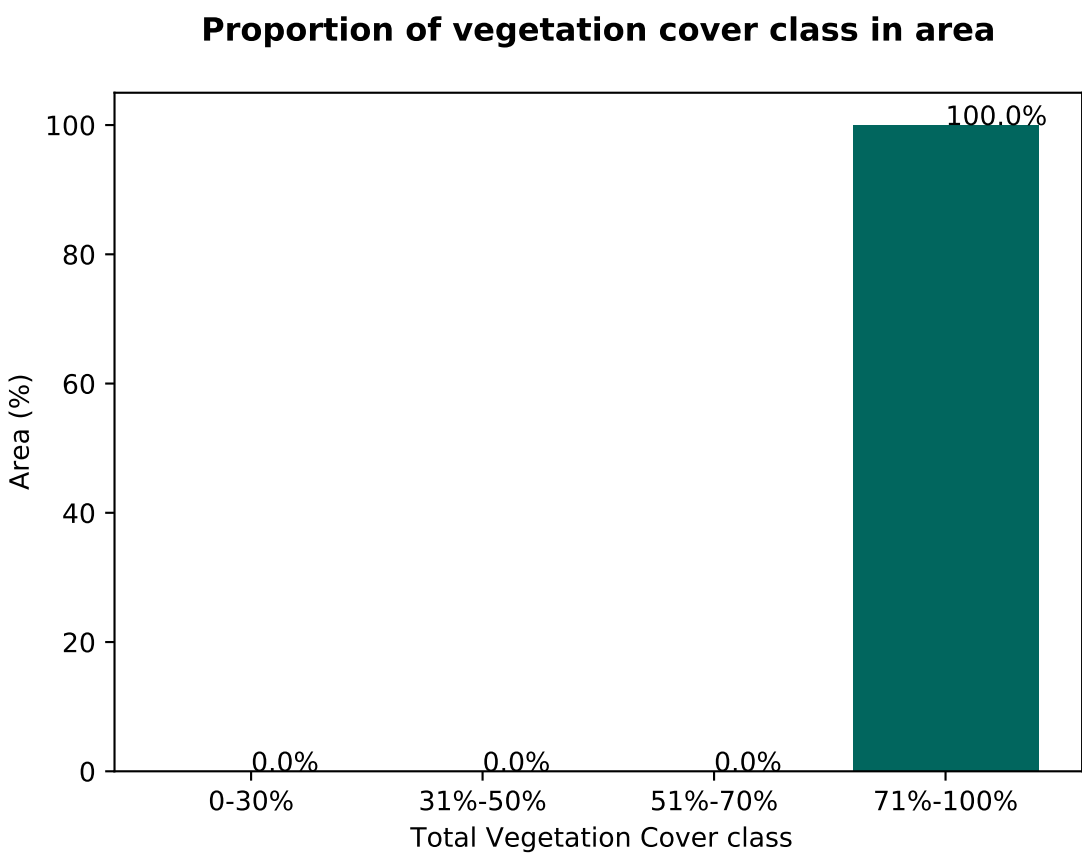
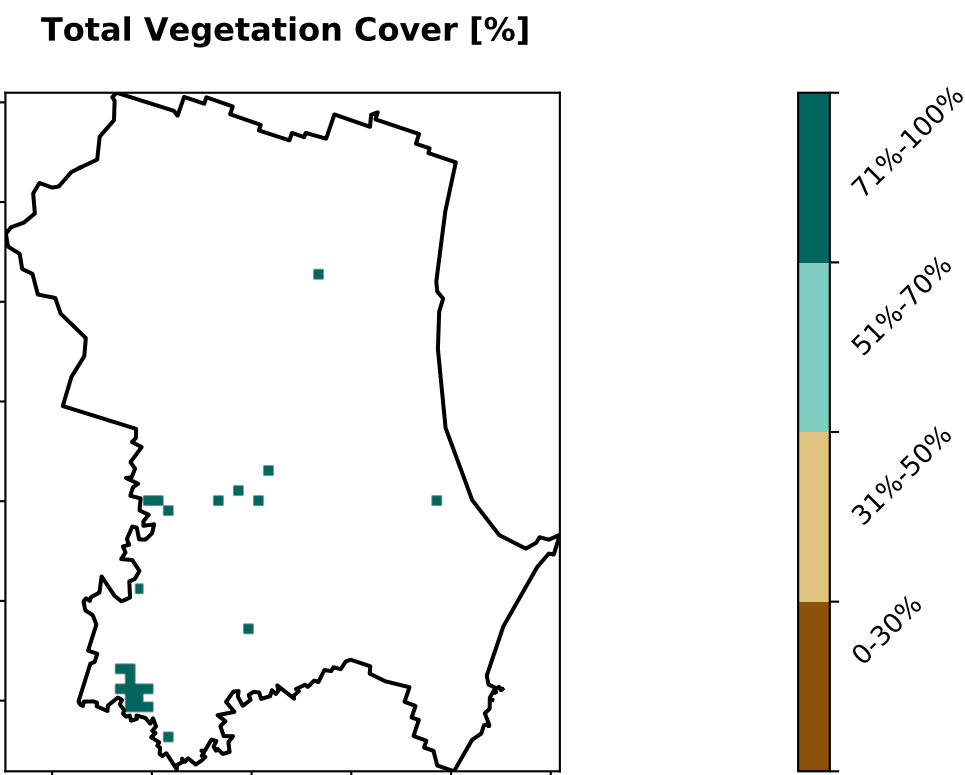
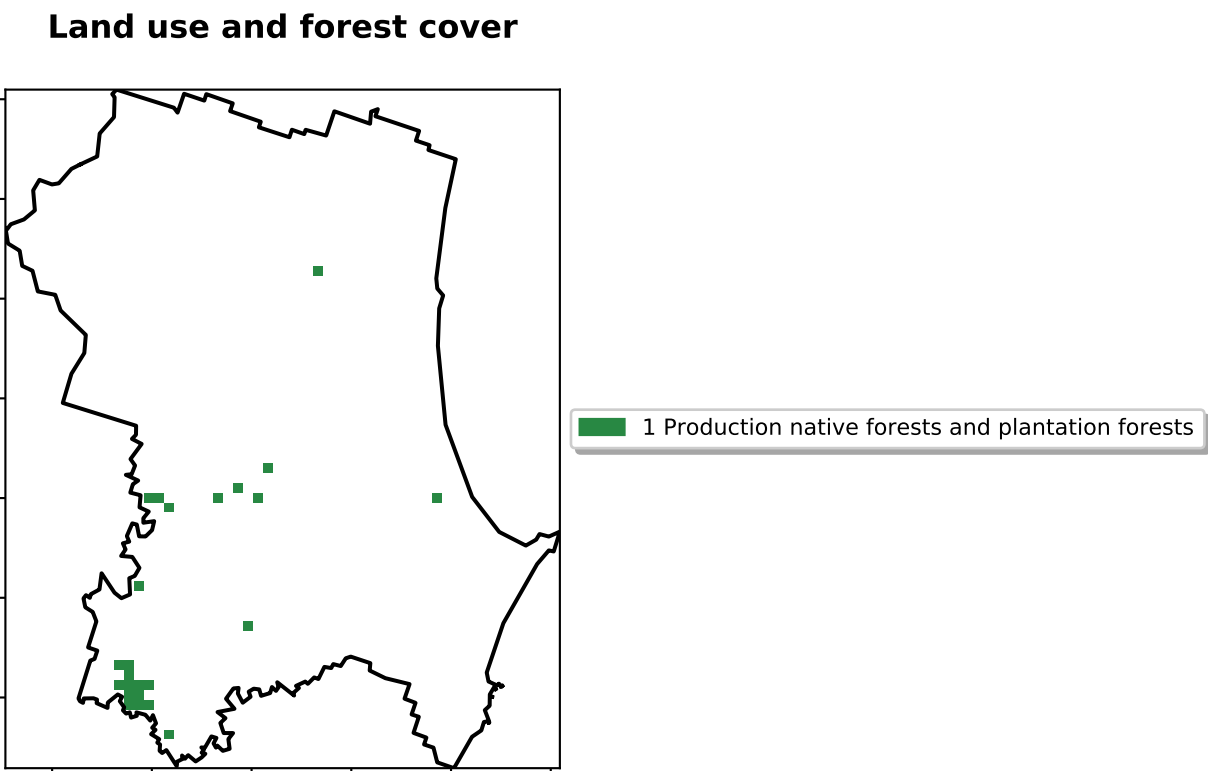




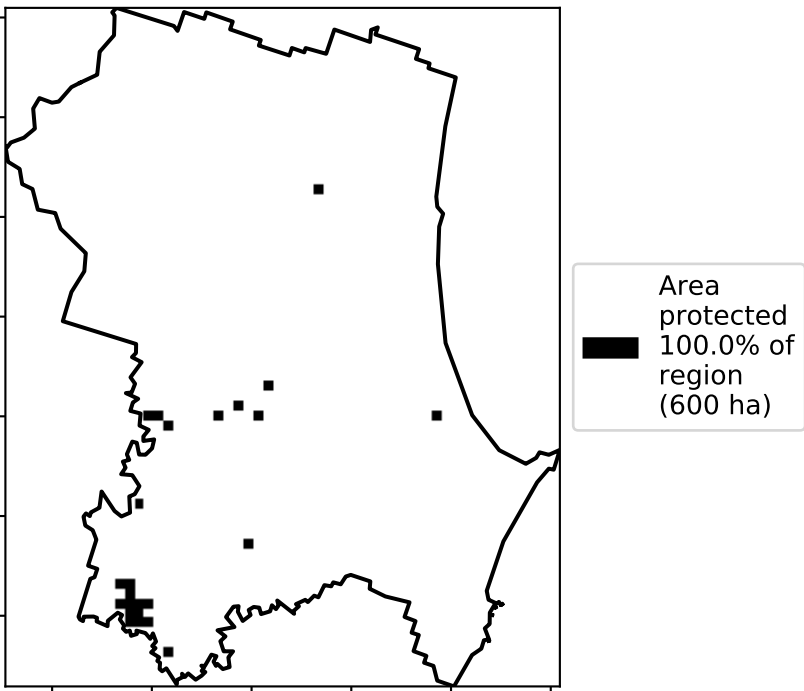


Production native forests and plantation forests

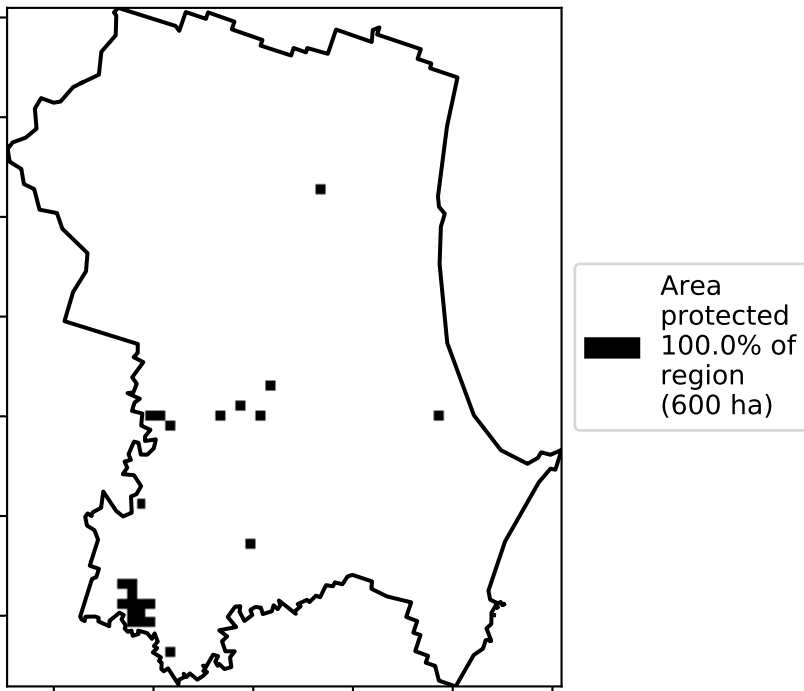
Catchment Scale  
Land Use and Forests  
of Australia (2018)  
Derived from  
Catchment Scale Land  
Use of Australia  
(2018) and Forests  
of Australia (2018)



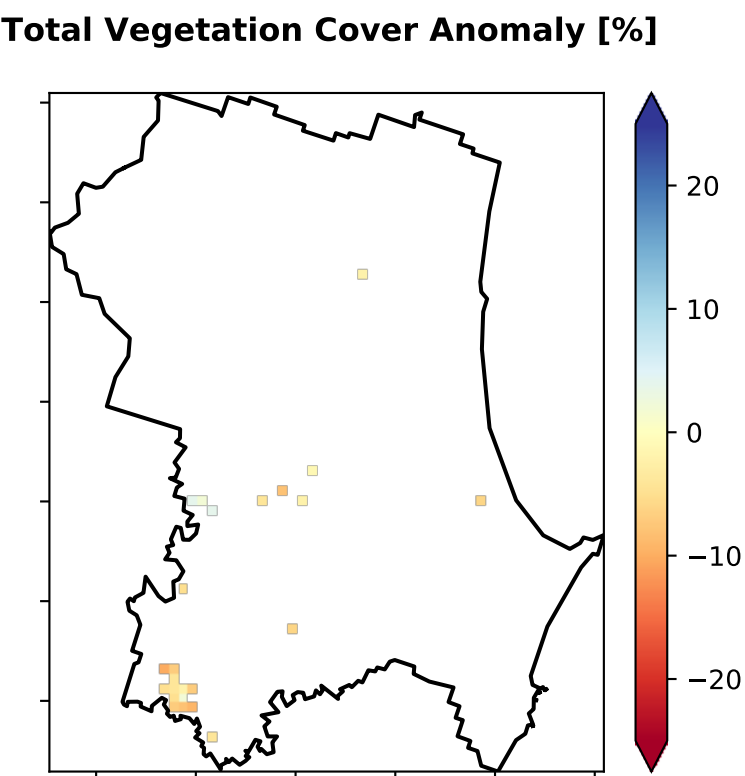
% Area protected from water erosion (>70%)



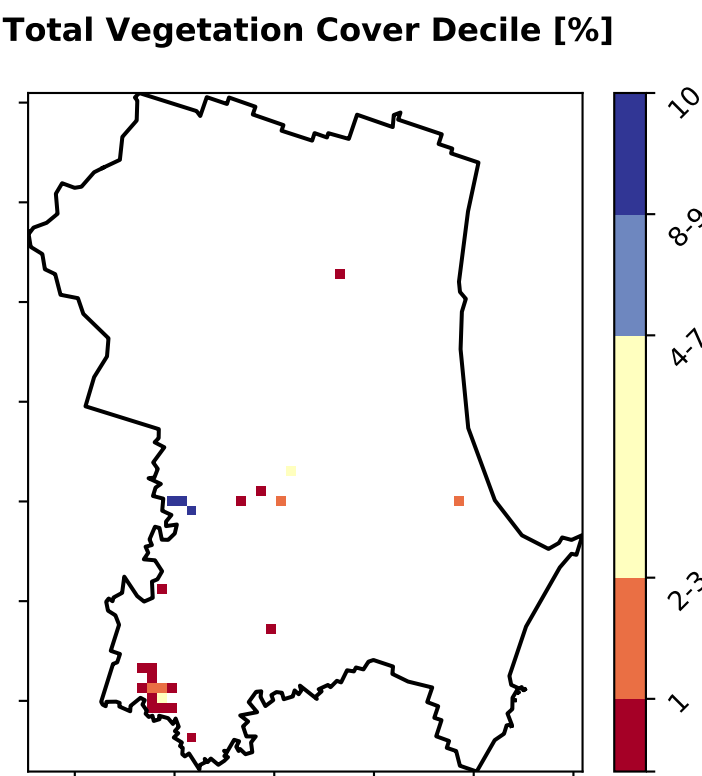
% Area protected from wind erosion (>50%)



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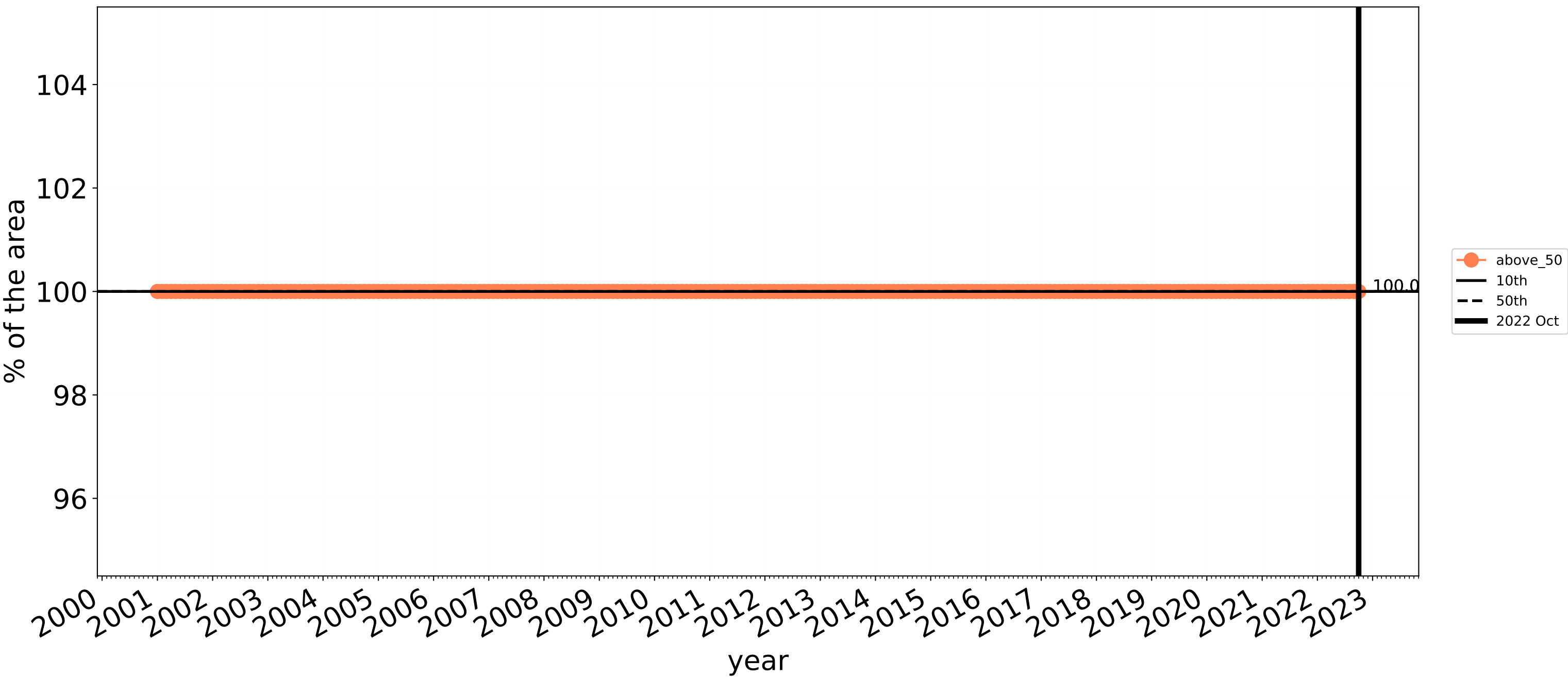


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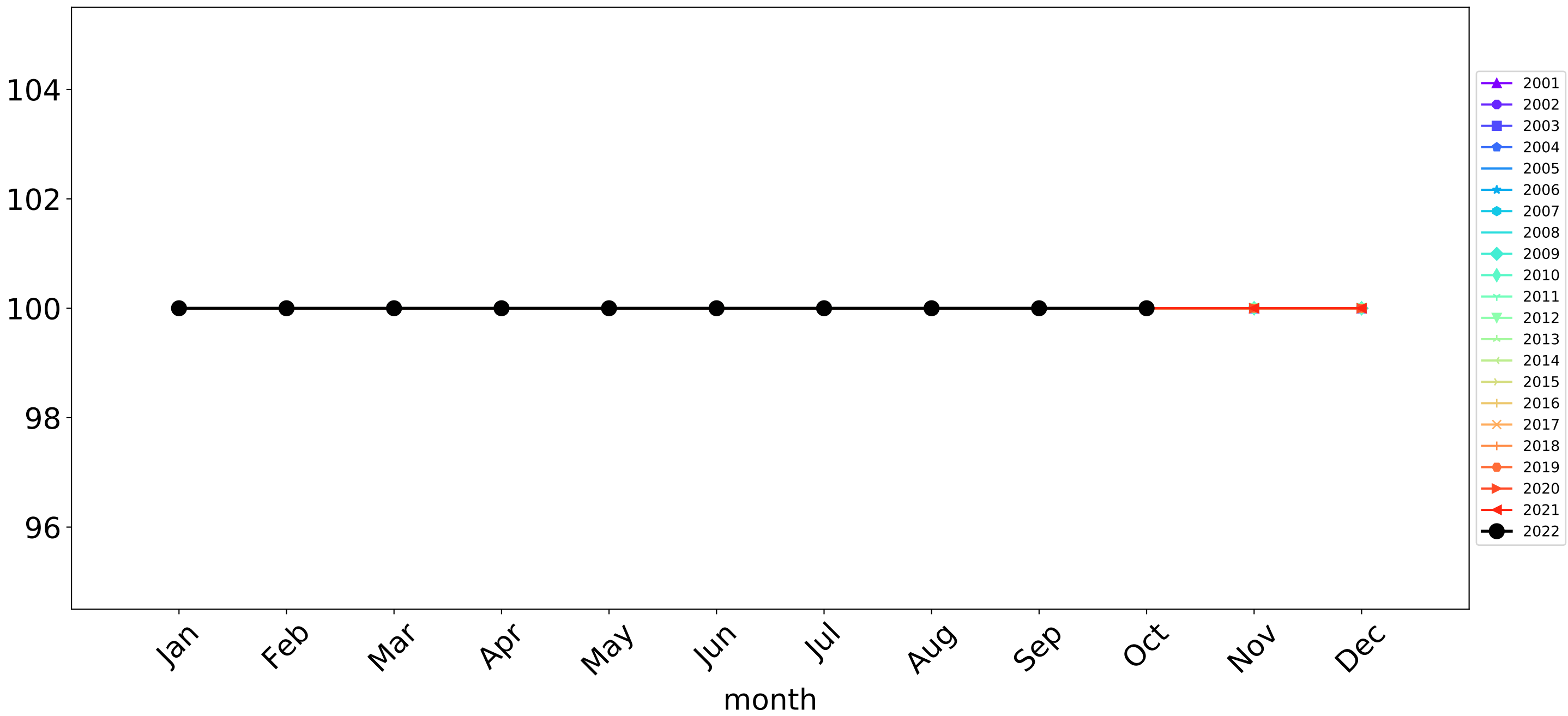
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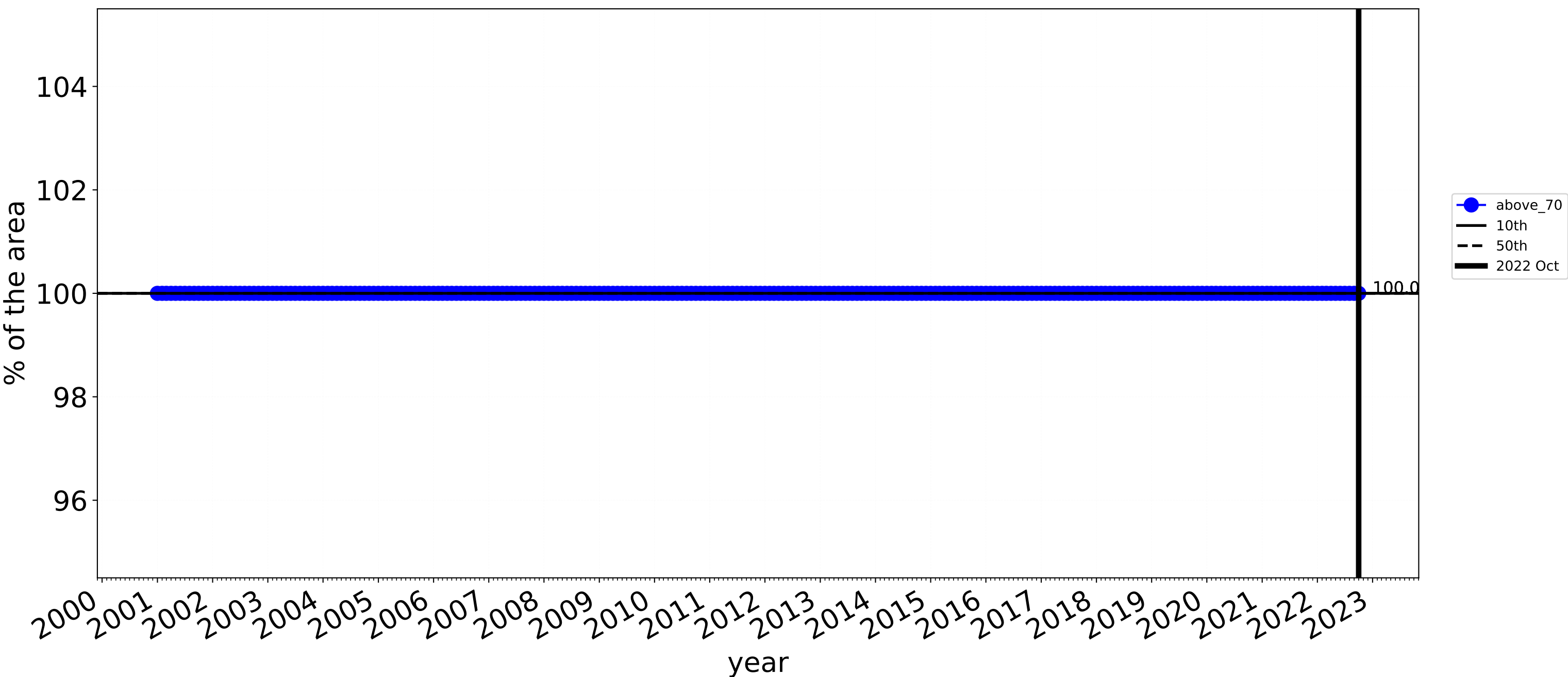
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



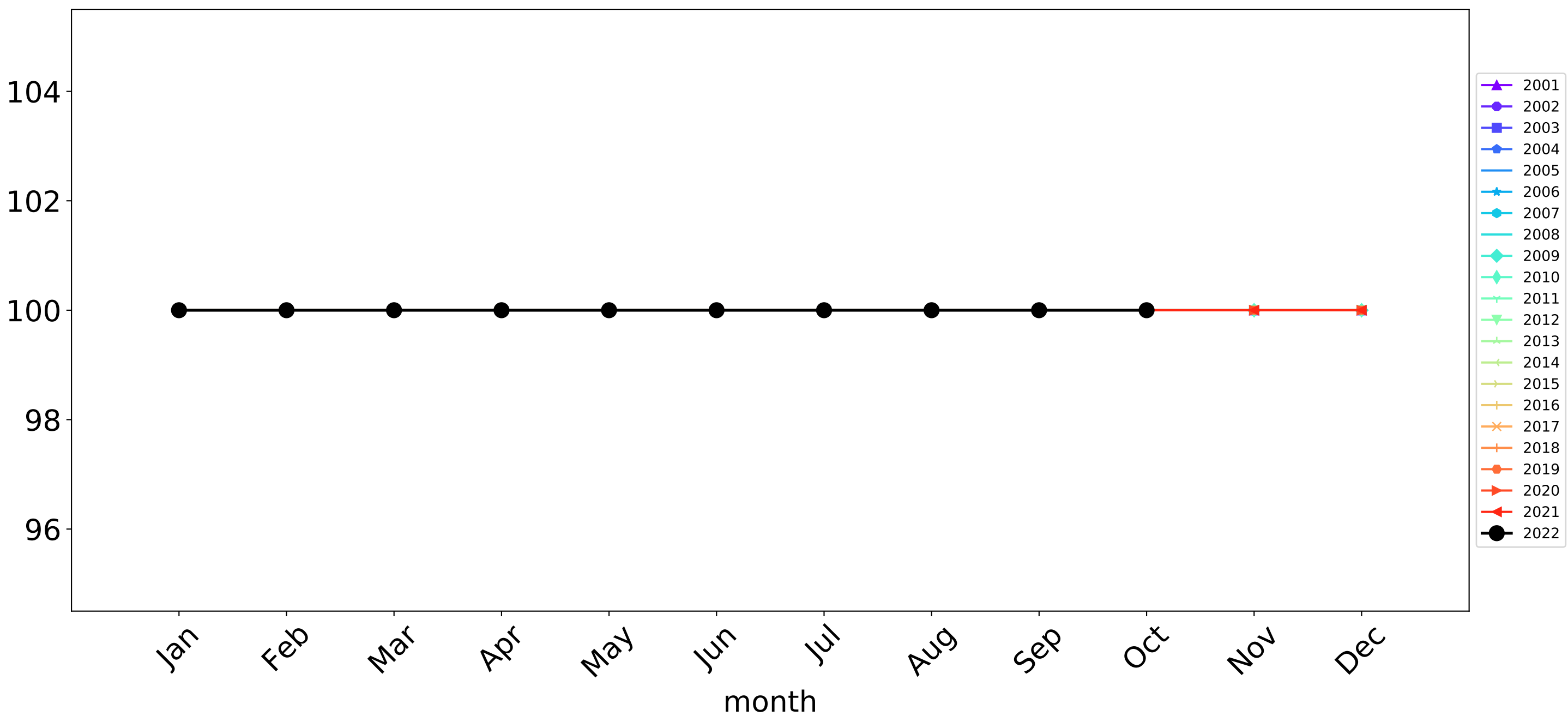
Wind erosion historical monthly area protected (Total Veg Cov >50%)



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



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



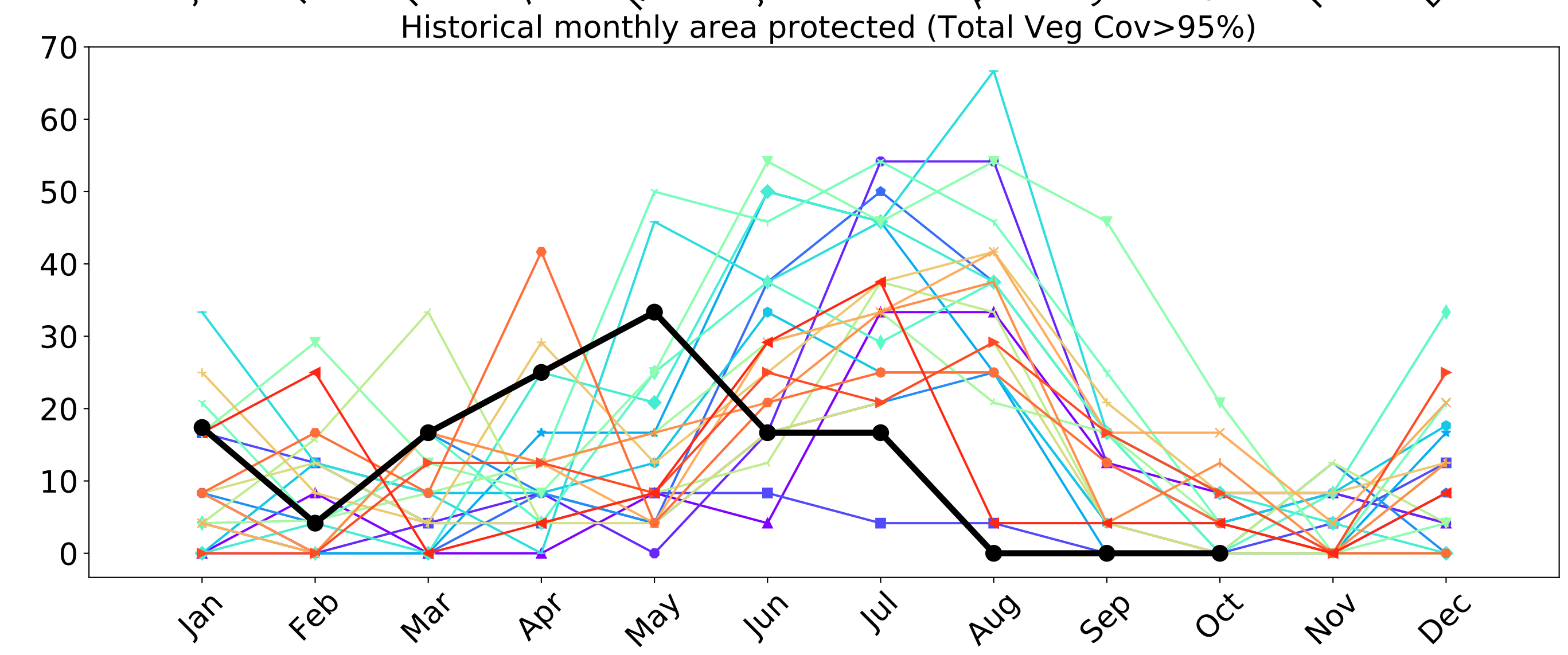
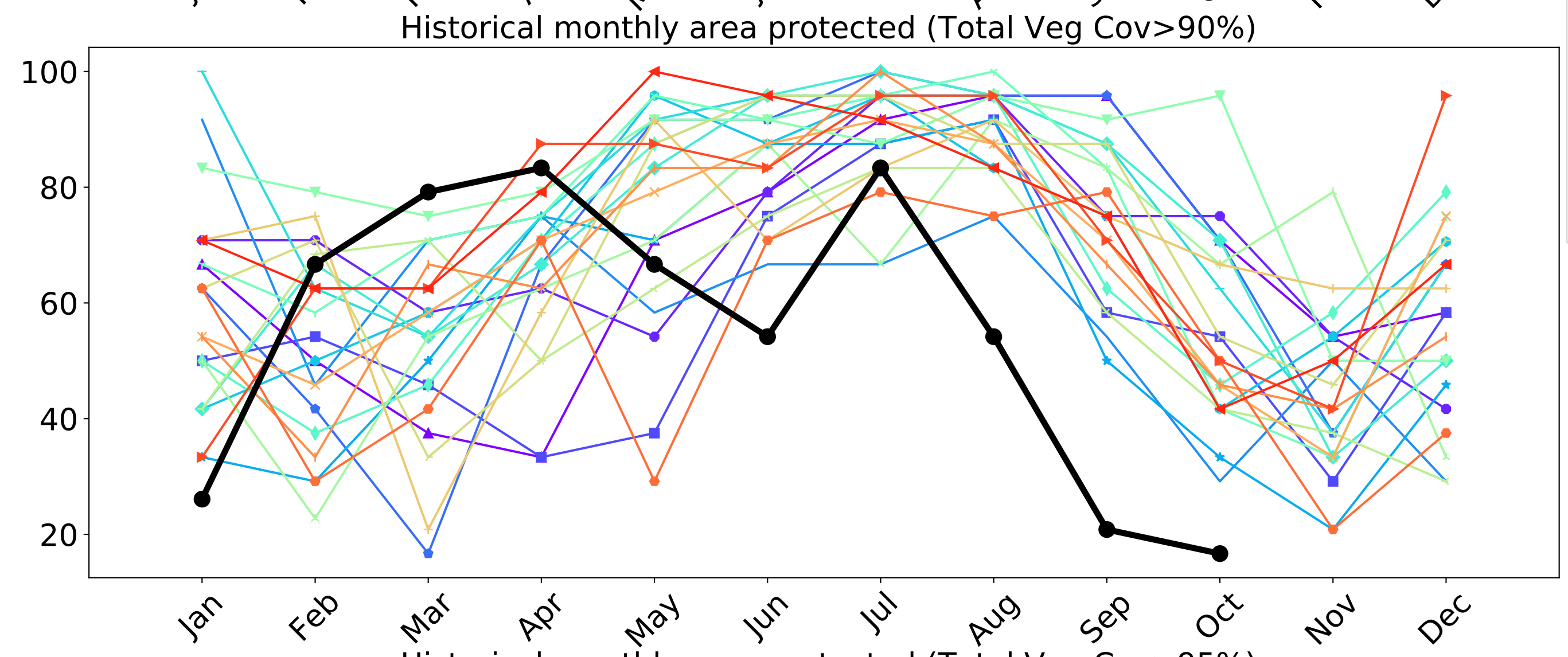
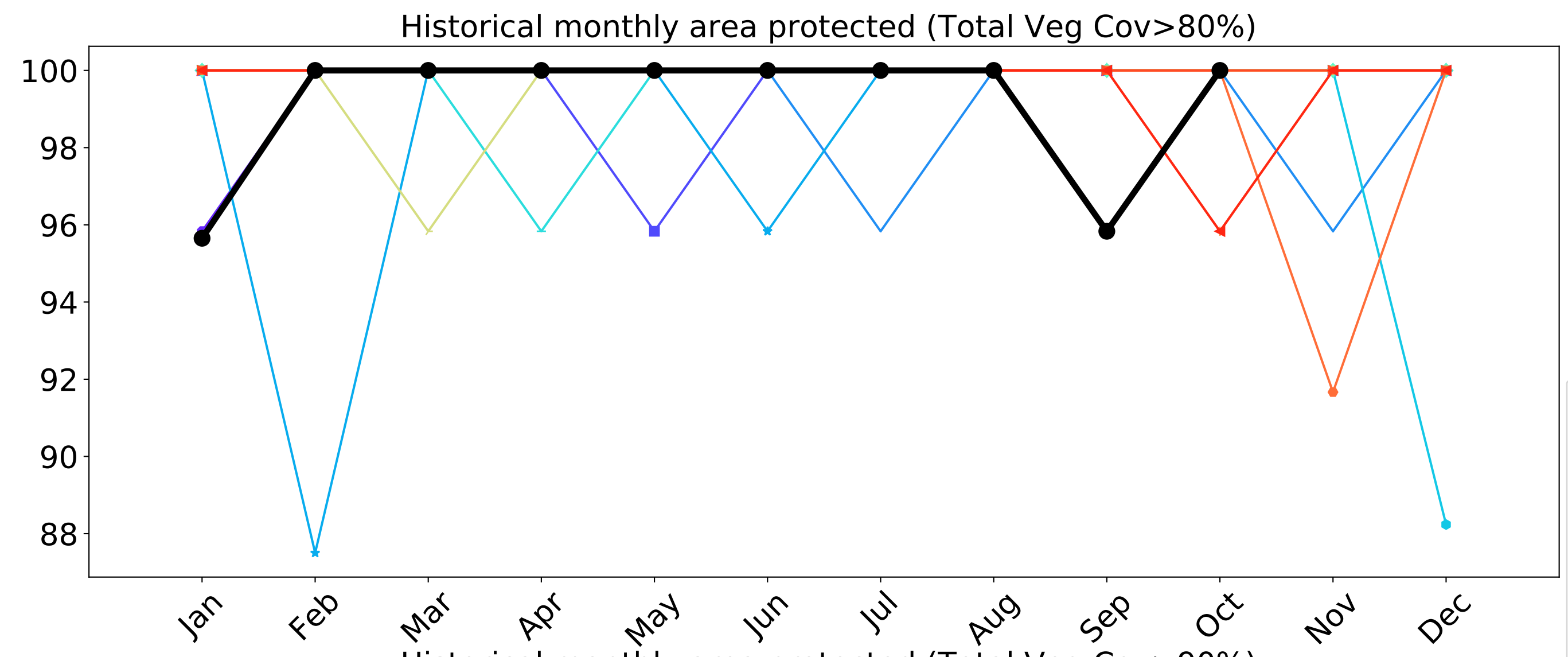
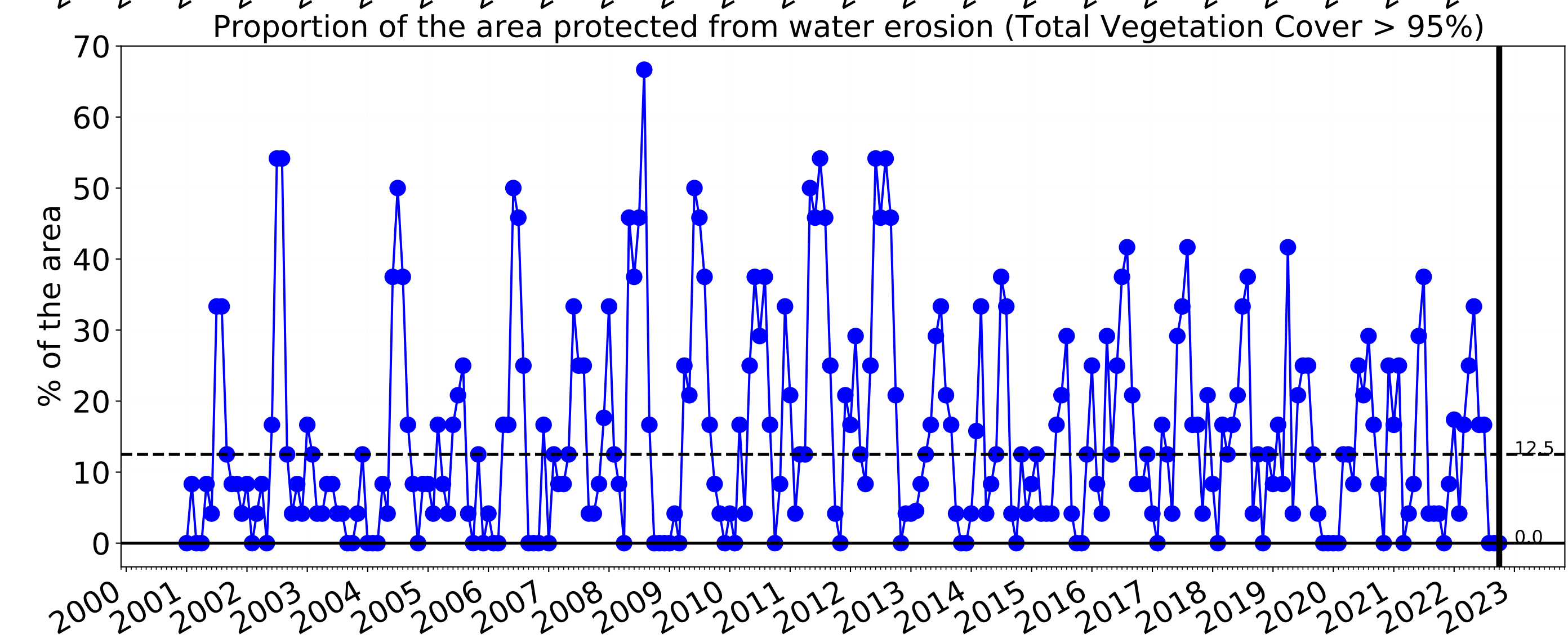
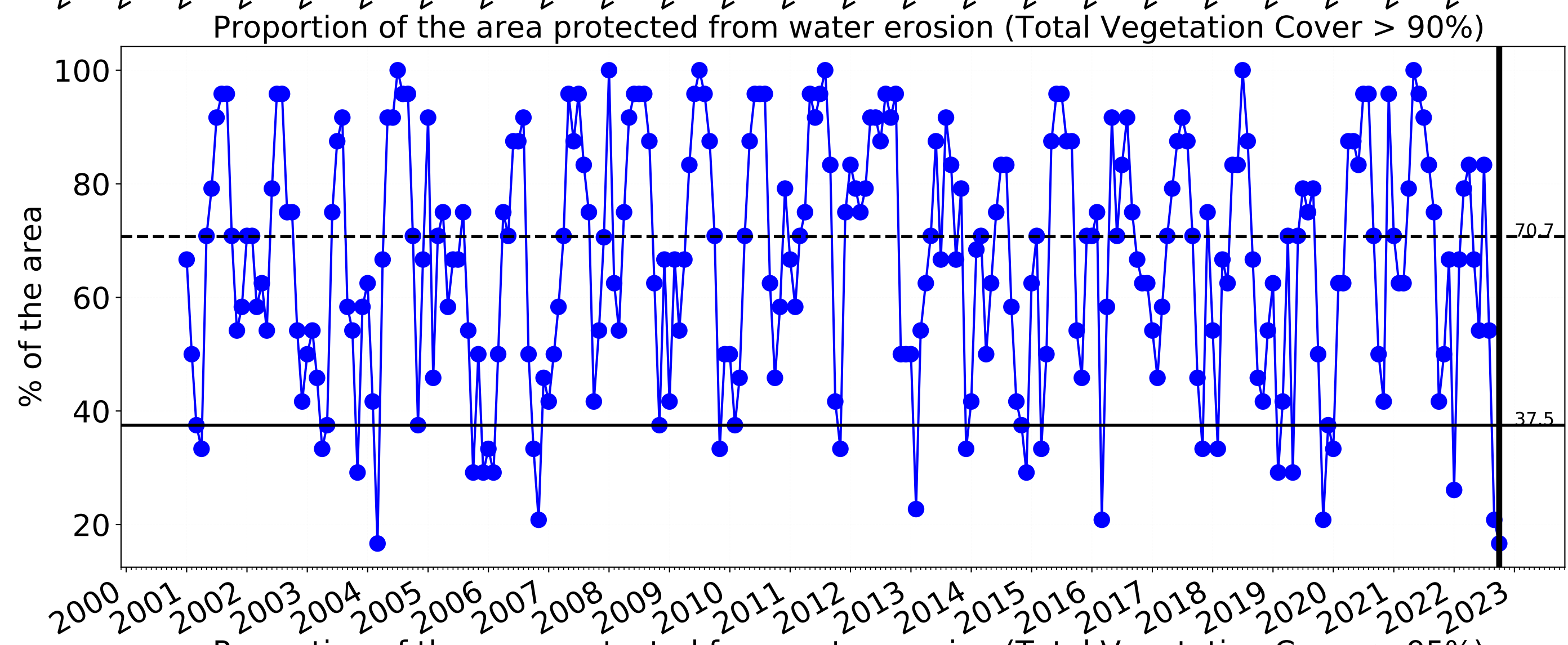
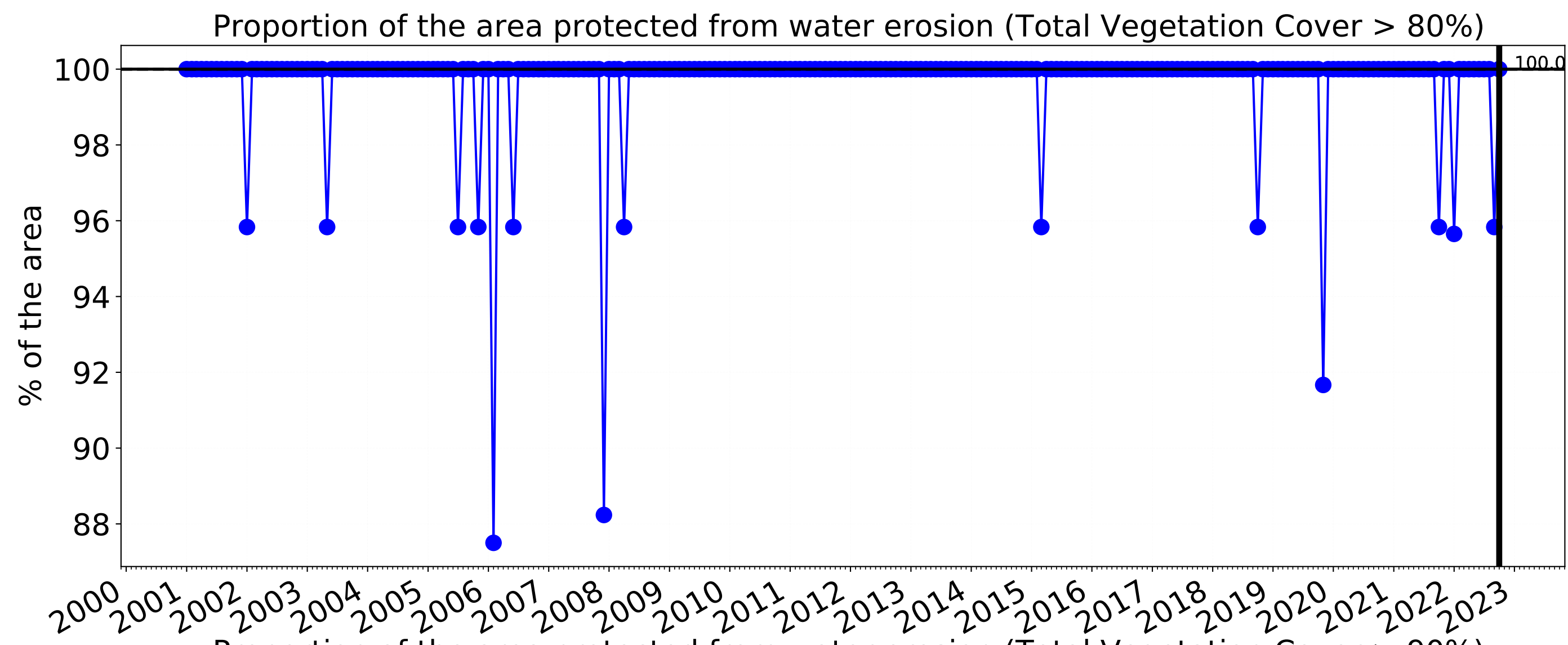
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Byron\_(A) (55,950 ha and no data 745 ha) Percentage area and hectares protected with TVC threshold 30,50,70,80,90 and 95%

Land use and forest cover Class	area(ha)	above_30	above_50	above_70	above_80	above_90	above_95
Entire region	55,950	99.9% 55,900	99.6% 55,725	98.8% 55,275	93.8% 52,500	42.5% 23,800	13.9% 7,775
Conservation and natural environments	11,075	99.8% 11,050	98.6% 10,925	97.5% 10,800	94.8% 10,500	77.4% 8,575	42.9% 4,750
Conservation and natural environments non forest	1,200	100.0% 1,200	91.7% 1,100	89.6% 1,075	68.8% 825	35.4% 425	27.1% 325
Conservation and natural environments Woodland forest	625	100.0% 625	100.0% 625	100.0% 625	100.0% 625	80.0% 500	20.0% 125
Conservation and natural environments Forest (non woodland)	9,250	99.7% 9,225	99.5% 9,200	98.4% 9,100	97.8% 9,050	82.7% 7,650	46.5% 4,300
Agriculture	33,700	100.0% 33,700	100.0% 33,700	99.8% 33,625	96.4% 32,475	36.4% 12,250	7.7% 2,600
Grazing	30,300	100.0% 30,300	100.0% 30,300	99.8% 30,225	96.3% 29,175	35.7% 10,825	7.5% 2,275
Grazing non forest	24,700	100.0% 24,700	100.0% 24,700	99.7% 24,625	95.5% 23,600	28.6% 7,075	6.0% 1,475
Grazing Woodland forest	2,600	100.0% 2,600	100.0% 2,600	100.0% 2,600	99.0% 2,575	44.2% 1,150	4.8% 125
Grazing - Forest (non woodland)	3,000	100.0% 3,000	100.0% 3,000	100.0% 3,000	100.0% 3,000	86.7% 2,600	22.5% 675
Cropping	1,175	100.0% 1,175	100.0% 1,175	100.0% 1,175	93.6% 1,100	44.7% 525	10.6% 125
Horticulture	2,200	100.0% 2,200	100.0% 2,200	100.0% 2,200	98.9% 2,175	40.9% 900	9.1% 200
Production native forests and plantation forests	600	100.0% 600	100.0% 600	100.0% 600	100.0% 600	16.7% 100	0.0% 0