## Total vegetation cover soil protection Region:LGA Brighton (M) TAS

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.

**Date: November 2025** 

Land use forest cover:

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

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

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

Erosion protection: Wind erosion 50% total vegetation cover

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

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

Comparison with previous years:

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

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

### **Erosion protection**

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

### Rainfall

• Millimetres rainfall each month (black line).

Each time series is also stacked by year. The black line shows the current year of data. Water erosion protection for higher rainfall and steeper slopes:

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

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

### **Acknowledgment of data:**

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

https://doi.org/10.4225/08/5848a3f19a7b3





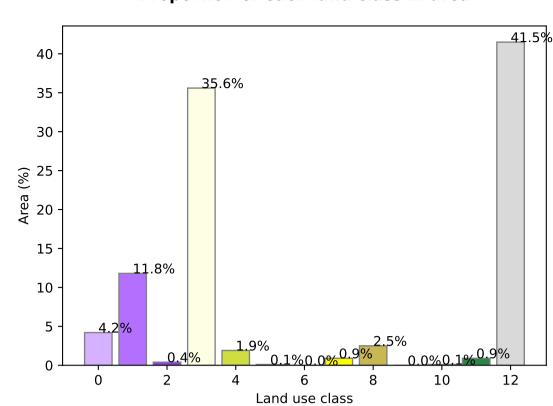




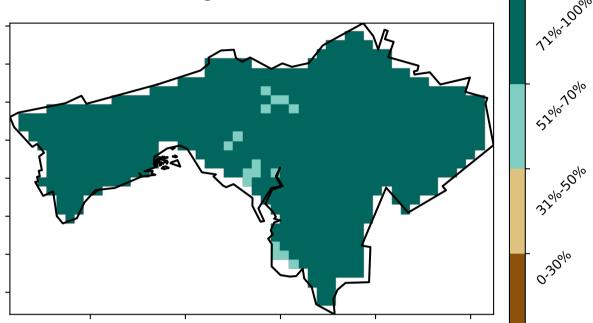
### **Vegetation Cover Nov 2025**

### **Land use and forest cover** 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 Catchment Scale 3 Conservation and natural environments -Non-Woodland forest Land Use and Forests of Australia (2018) 4 Agriculture - Grazing - Non-forest Derived from 5 Agriculture - Grazing - Woodland forest Catchment Scale Lai 6 Agriculture - Grazing - Non-woodland forest Use of Australia 7 Agriculture - Grazing - Irrigated (2018) and Forests of Australia (2018) 8 Agriculture - Cropping - Non-irrigated 9 Agriculture - Cropping - Irrigated 10 Agriculture - Horticulture - Non-irrigated 11 Agriculture - Horticulture - Irrigated 12 Production native forests and plantation 13 Other uses

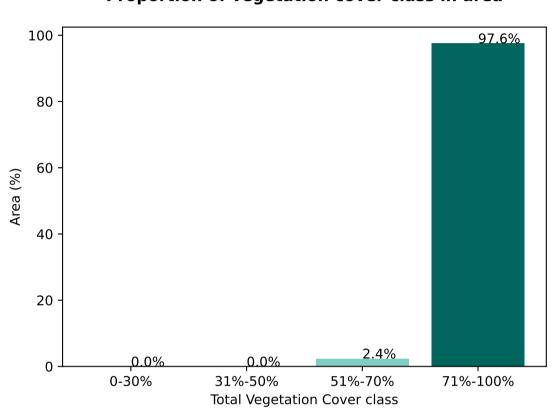
### Proportion of each land class in area



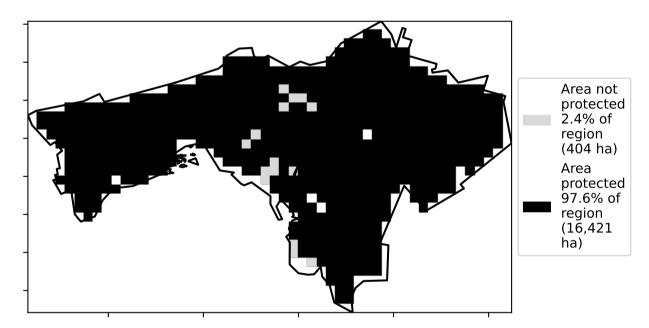
Total Vegetation Cover [%]



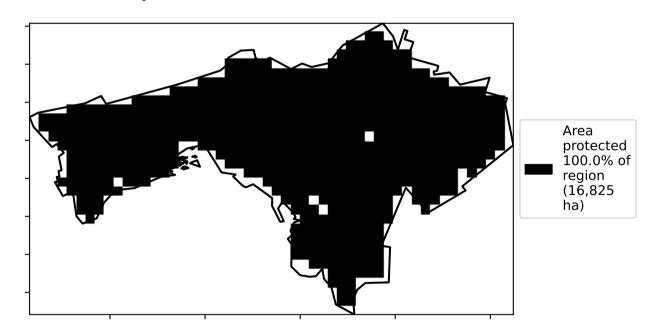
Proportion of vegetation cover class in area



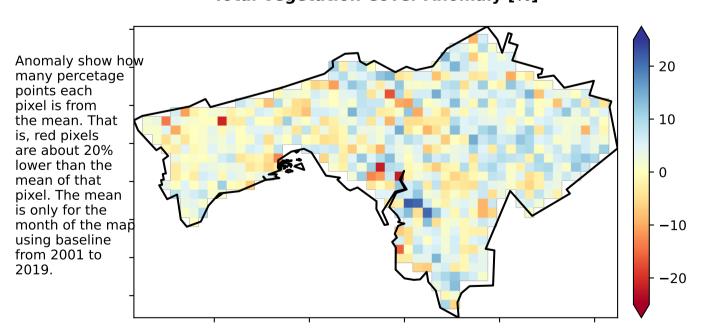
### % Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)



Total Vegetation Cover Anomaly [%]



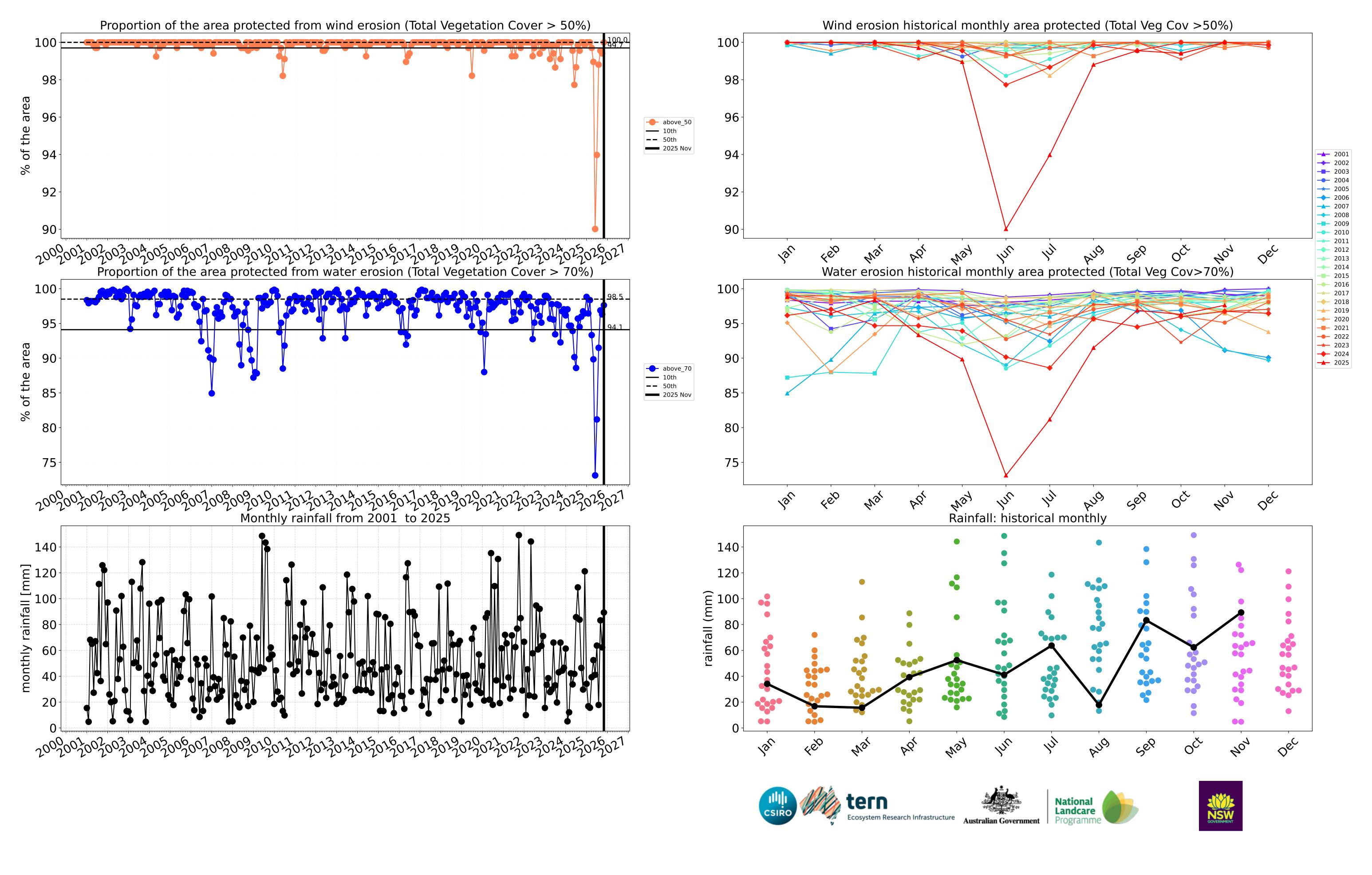
Deciles show where the pixel value lies in the record, from highest to lowest, for that month. That is, red pixels are in the lowest 10% of records for that month of the map using baseline from 2001 to 2019.

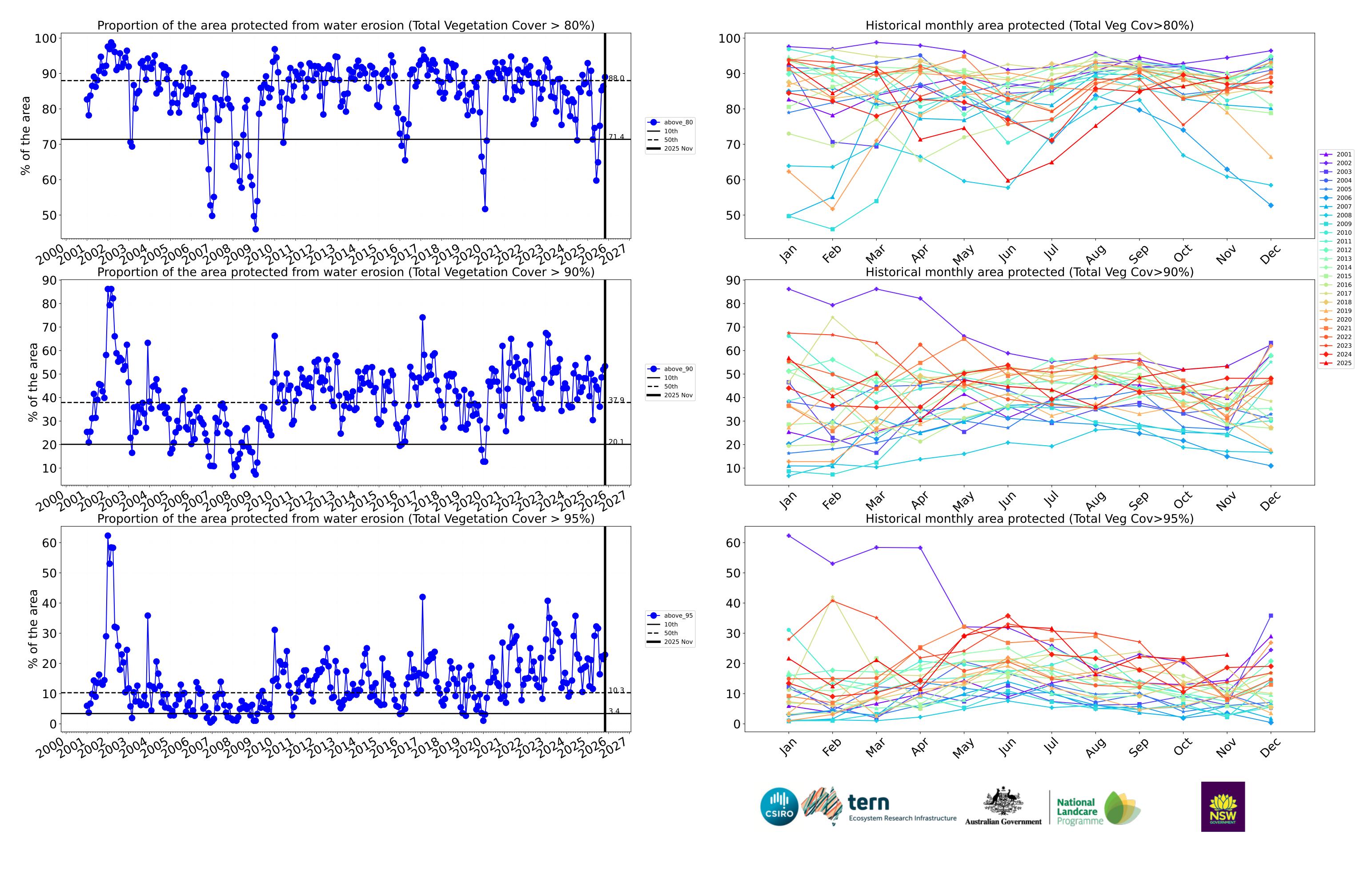










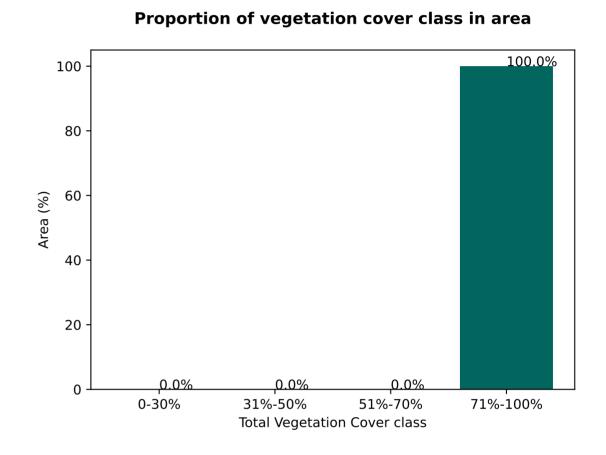


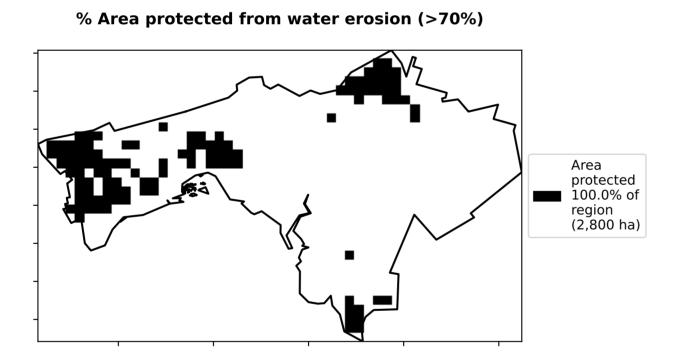
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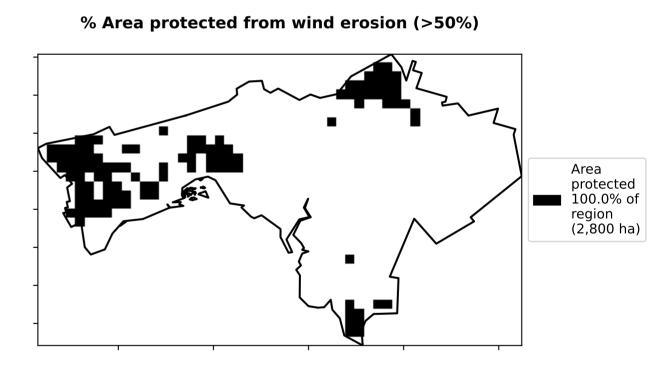
### **Conservation and natural environments**

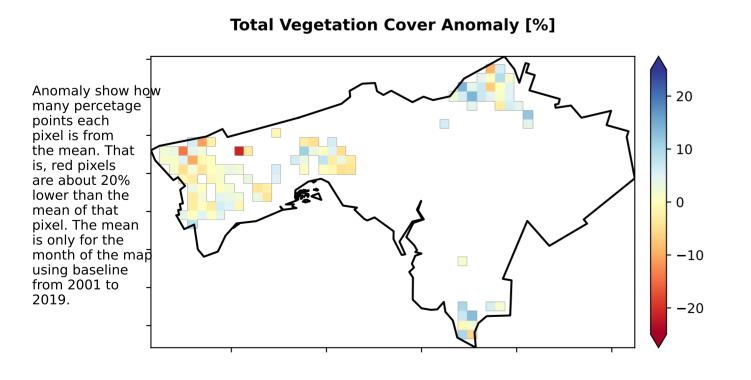
### Proportion of each land class in area Land use and forest cover 71.7% 70 60 Catchment Scale Land Use and Forests of Australia (2018) 50 1 Conservation and natural environments - Nonforest 2 Conservation and natural environments - Woodland Derived from 40 Catchment Scale Lar Use of Australia (2018) and Forests of Australia (2018) 3 Conservation and natural environments - Non-woodland forest 30 25.7% 20 10 1.0 -0.50.5 0.0 1.5 2.0 2.5 Land use class

# Total Vegetation Cover [%]

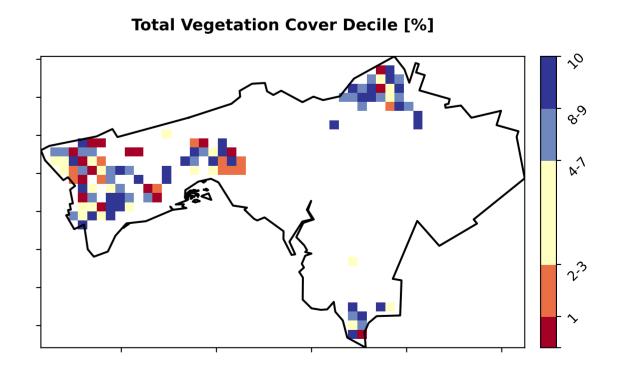








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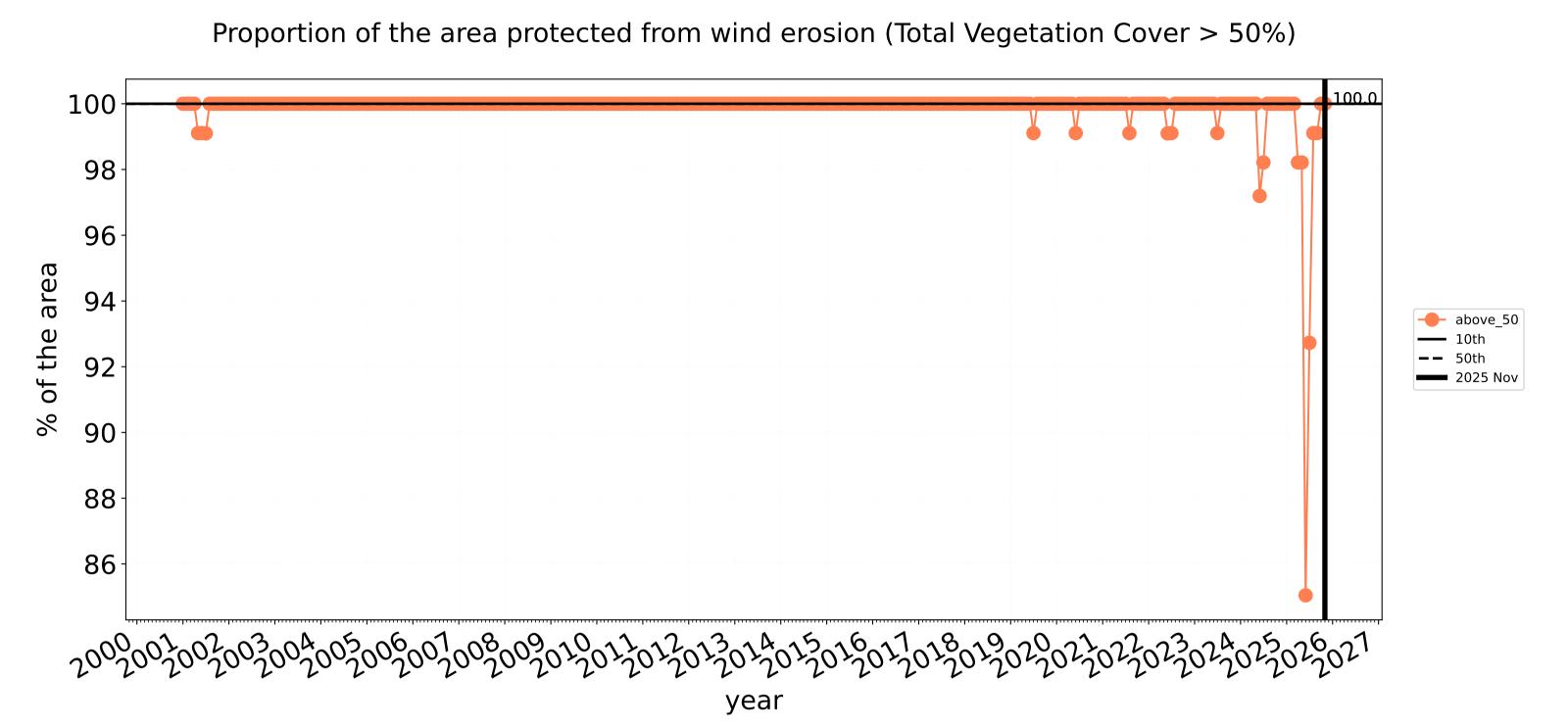


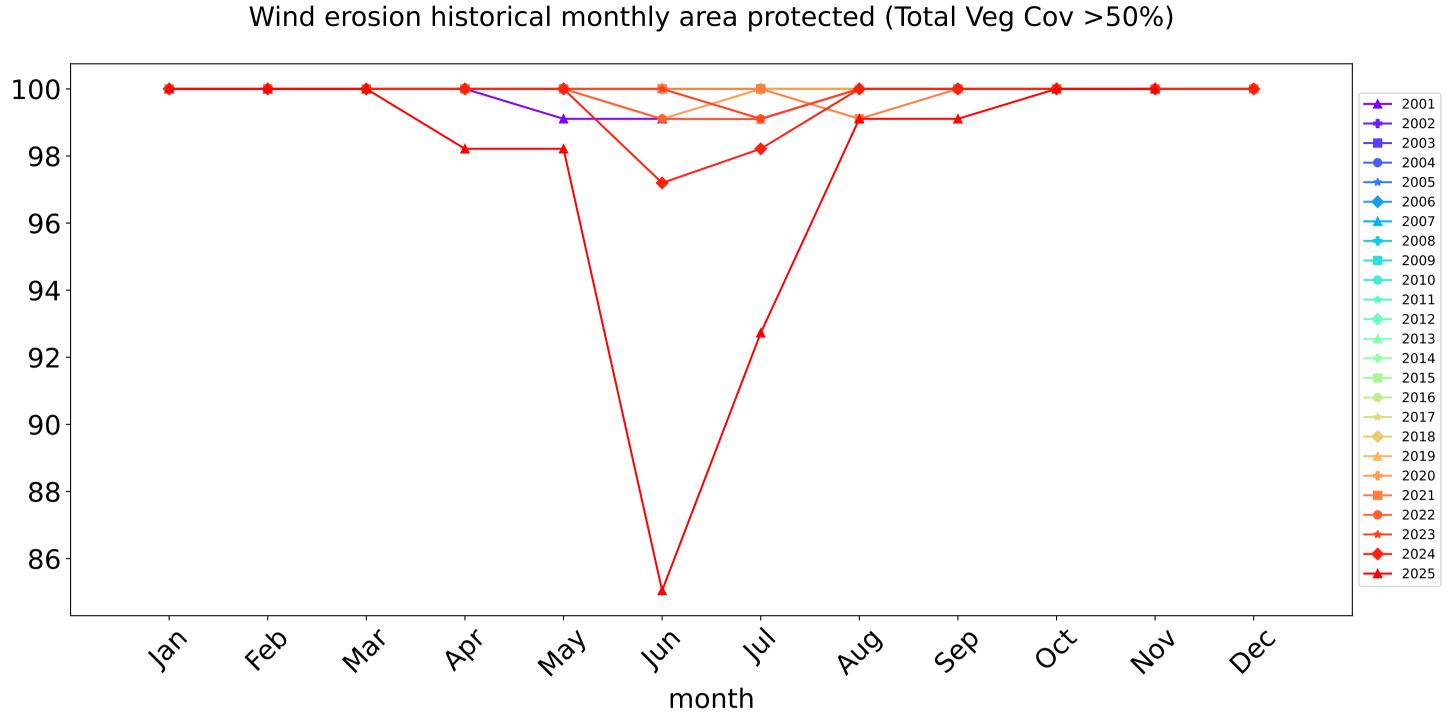


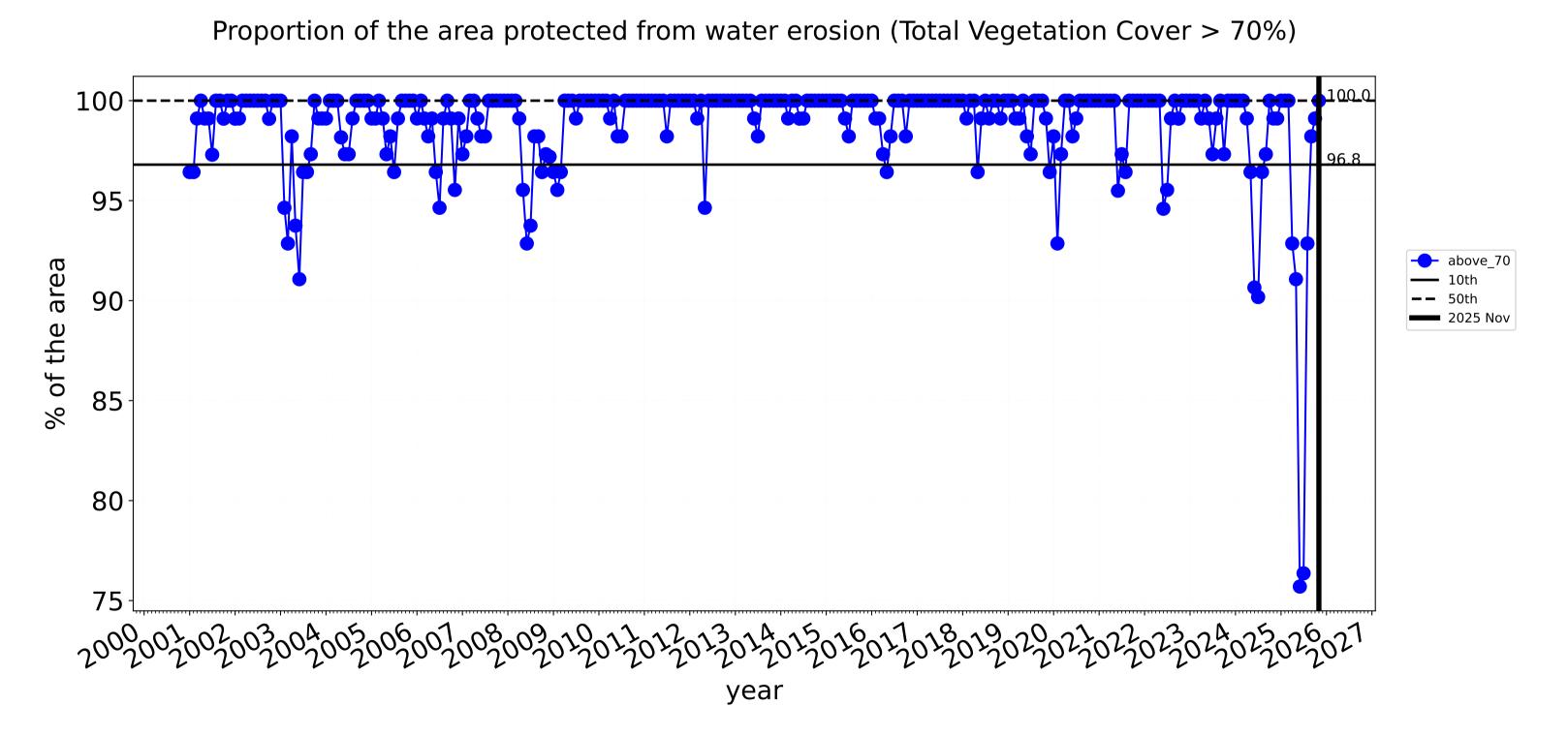


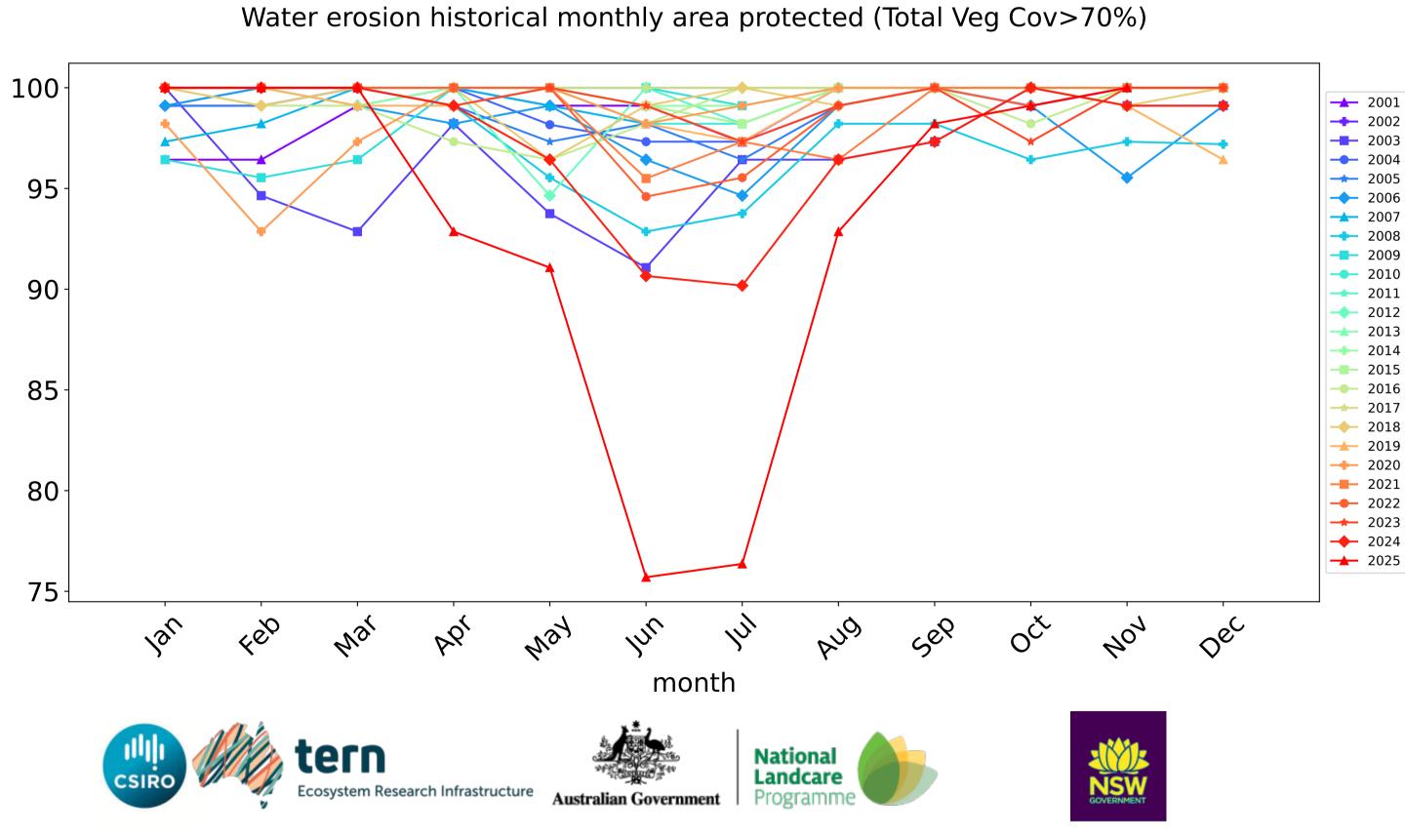


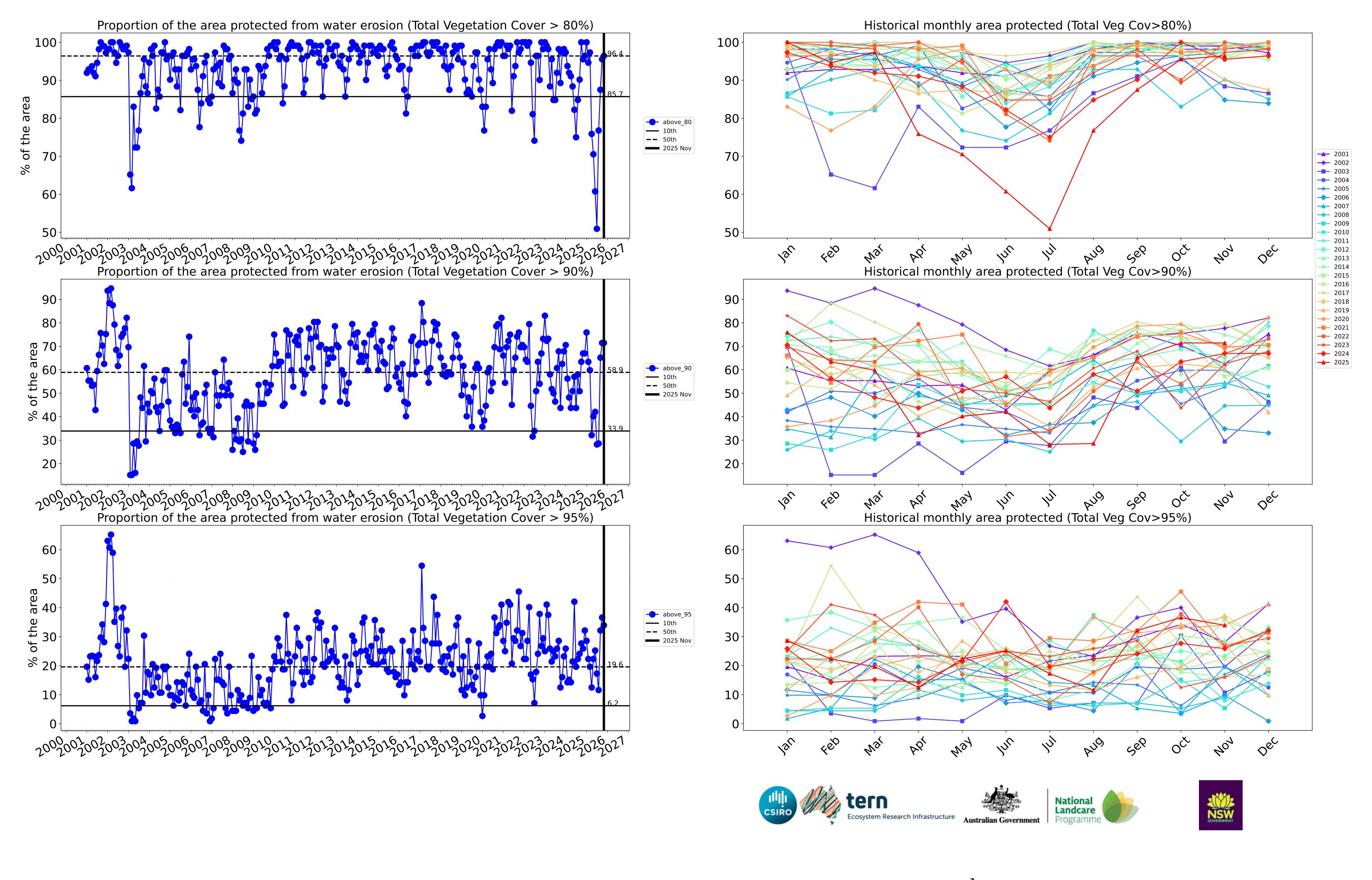
### **Conservation and natural environments timeseries**





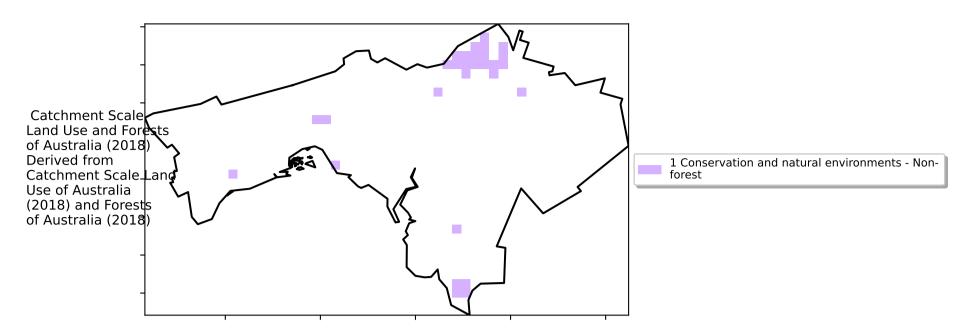






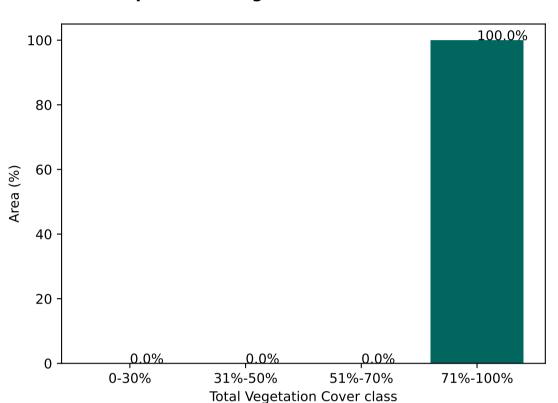
### **Conservation and natural environments non forest**

### Land use and forest cover

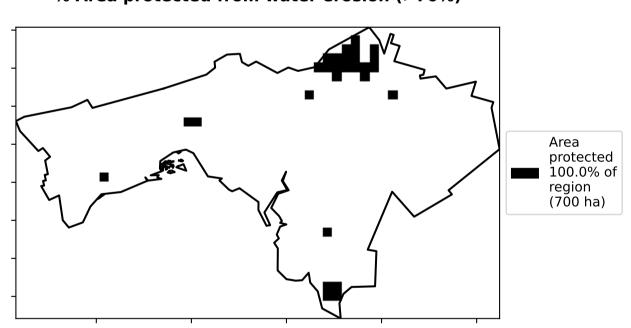


# Total Vegetation Cover [%]

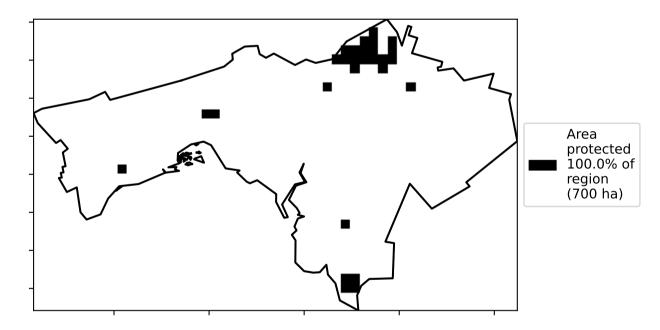
### Proportion of vegetation cover class in area



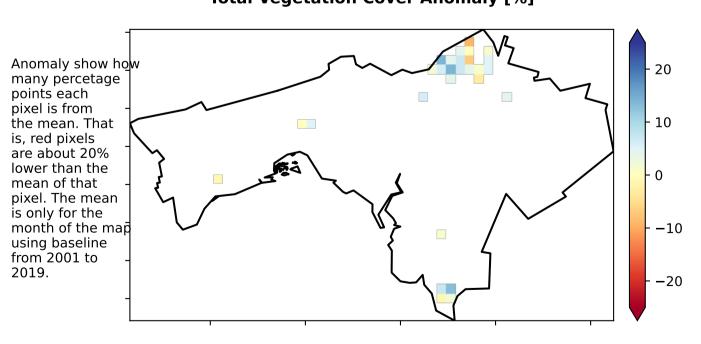
### % Area protected from water erosion (>70%)



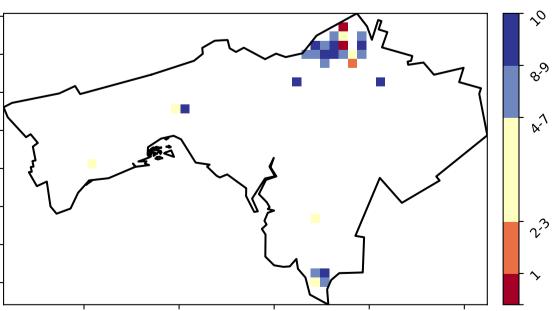
% Area protected from wind erosion (>50%)



### Total Vegetation Cover Anomaly [%]



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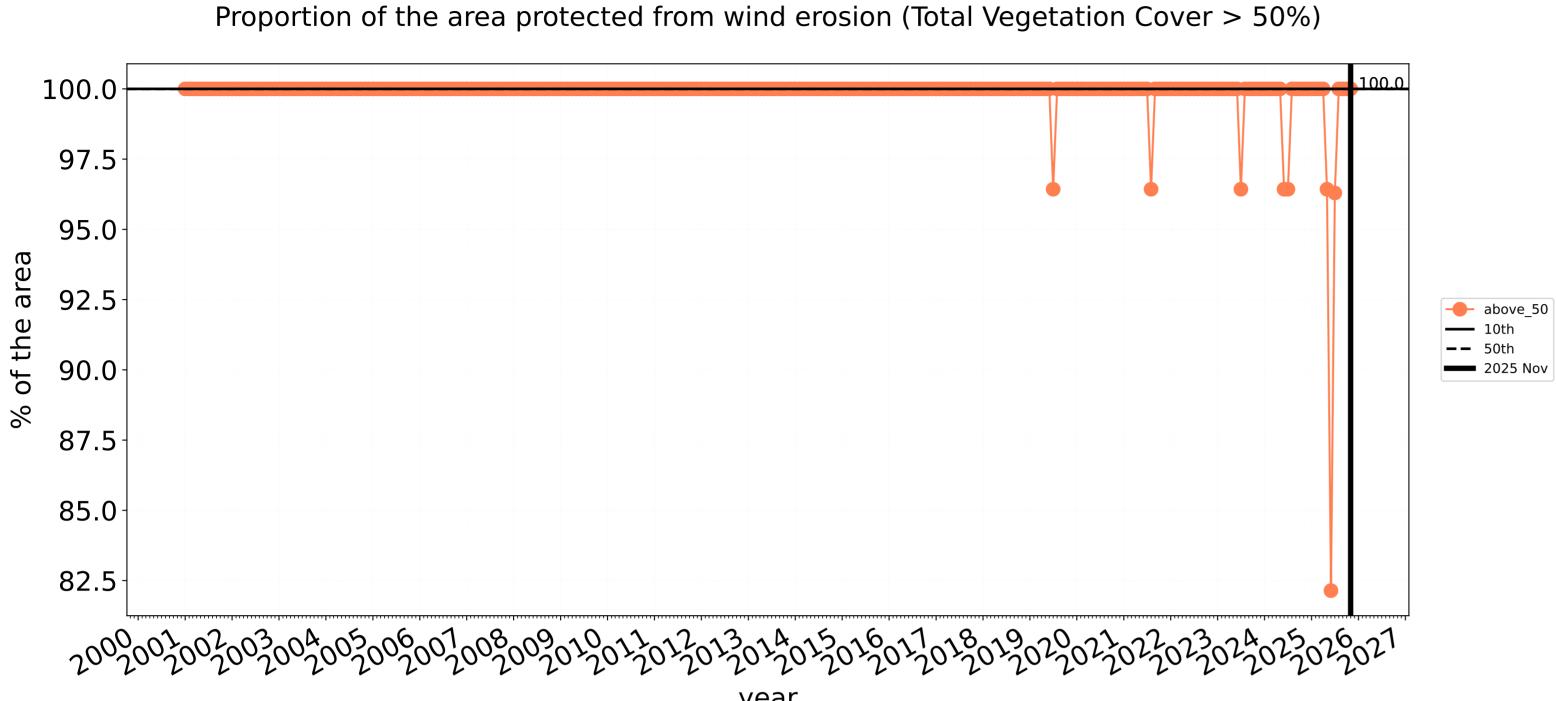






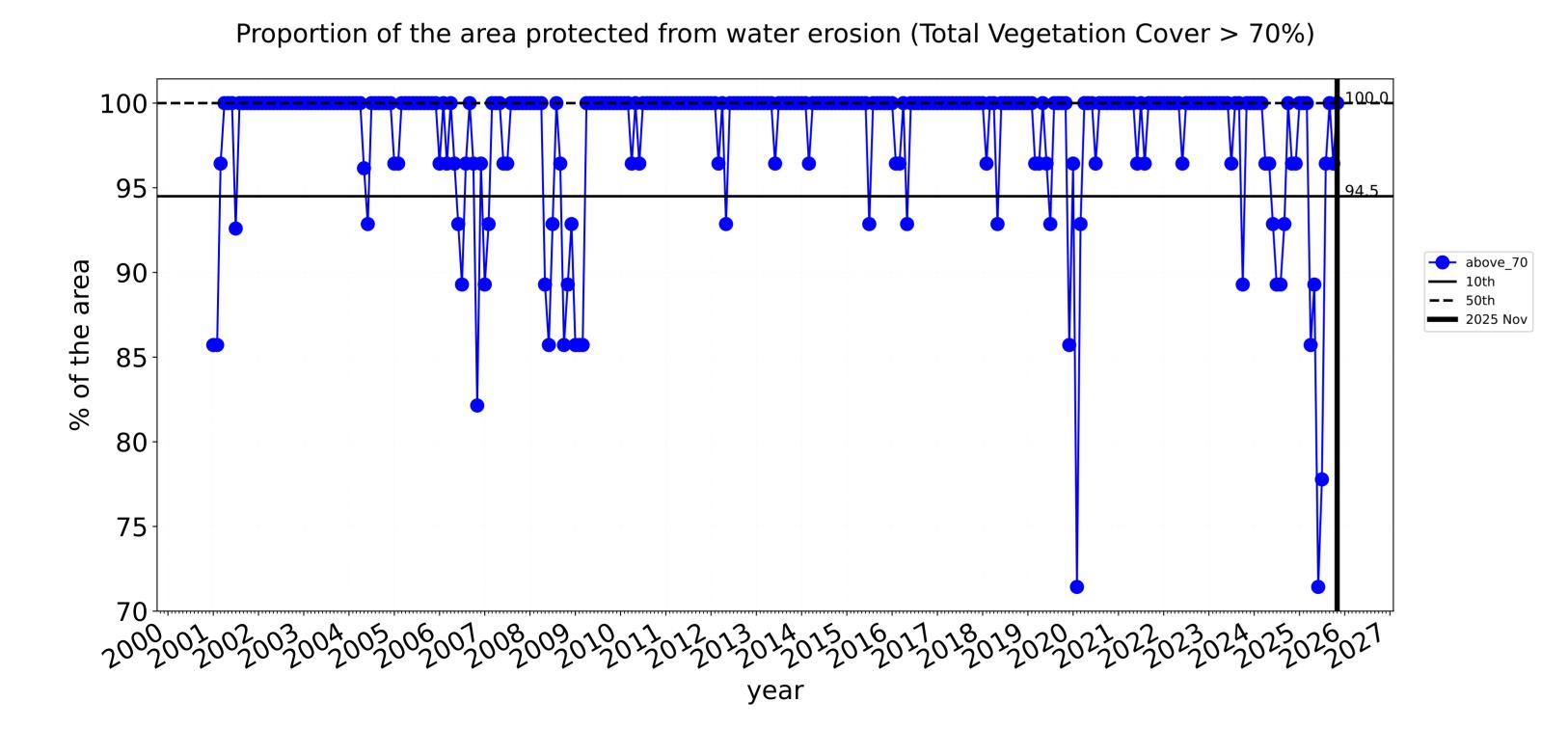


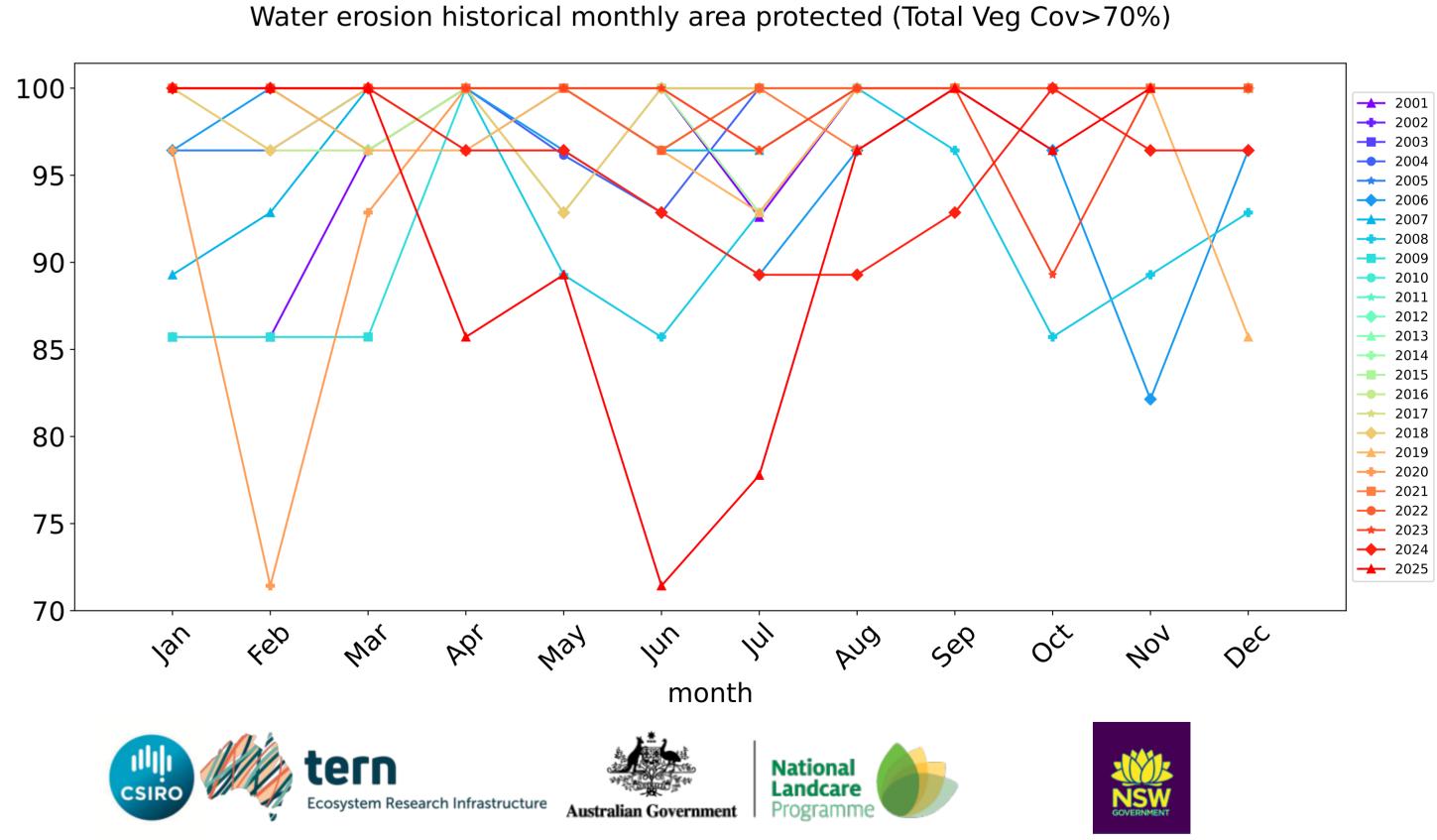
### **Conservation and natural environments non forest timeseries**

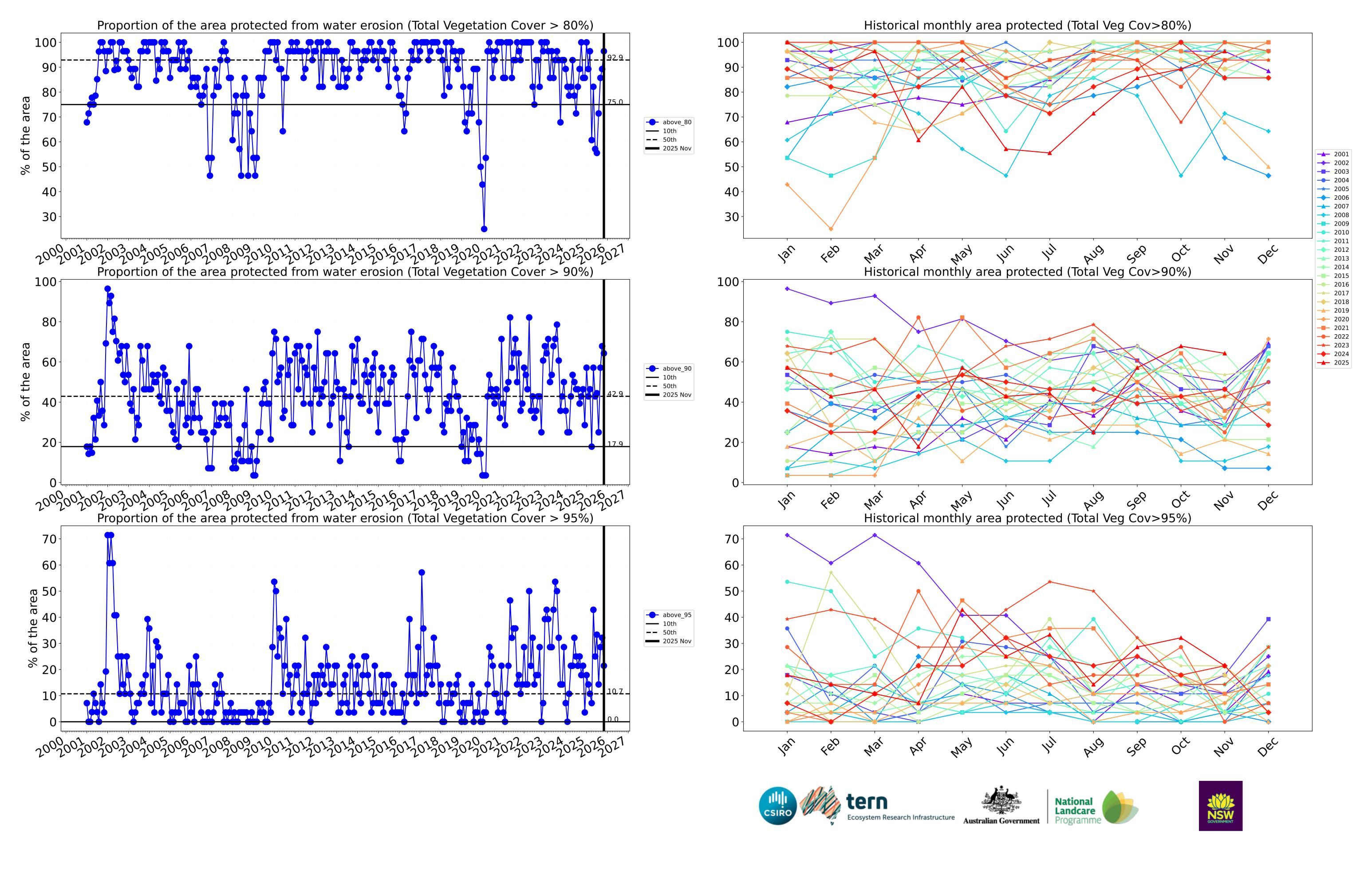




month







### **Conservation and natural environments Woodland forest**

## Land use and forest cover Catchment Scale Land Use and Forests of Australia (2018) Derived from 1 Conservation and natural environments - Woodland forest Catchment Scale Lan Use of Australia (2018) and Forests of Australia (2018)

# **Total Vegetation Cover [%]**

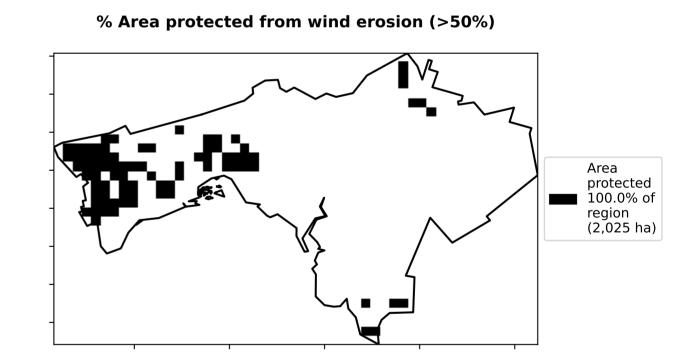
## 100.0% 100 80 Area (%) 60 40 20

31%-50%

0-30%

Proportion of vegetation cover class in area

## Area protected 100.0% of region (2,025 ha)

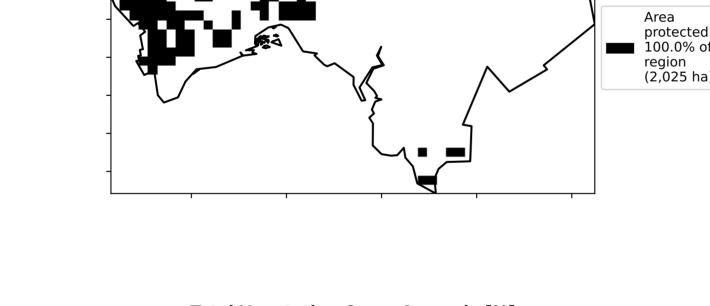


0.0%

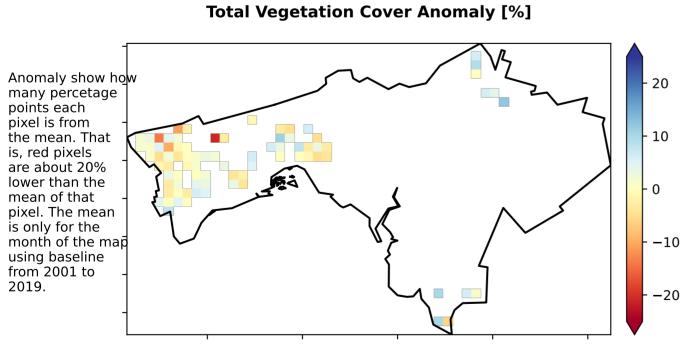
71%-100%

51%-70%

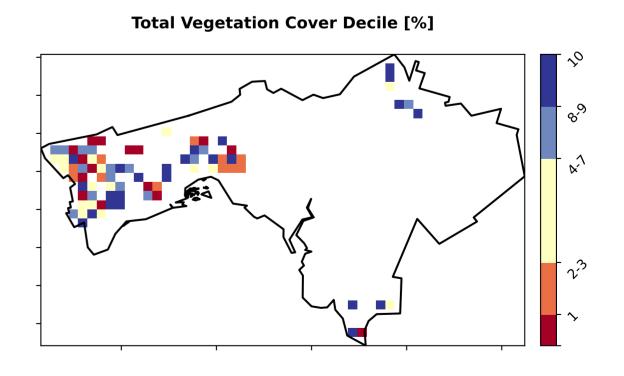
**Total Vegetation Cover class** 



% Area protected from water erosion (>70%)



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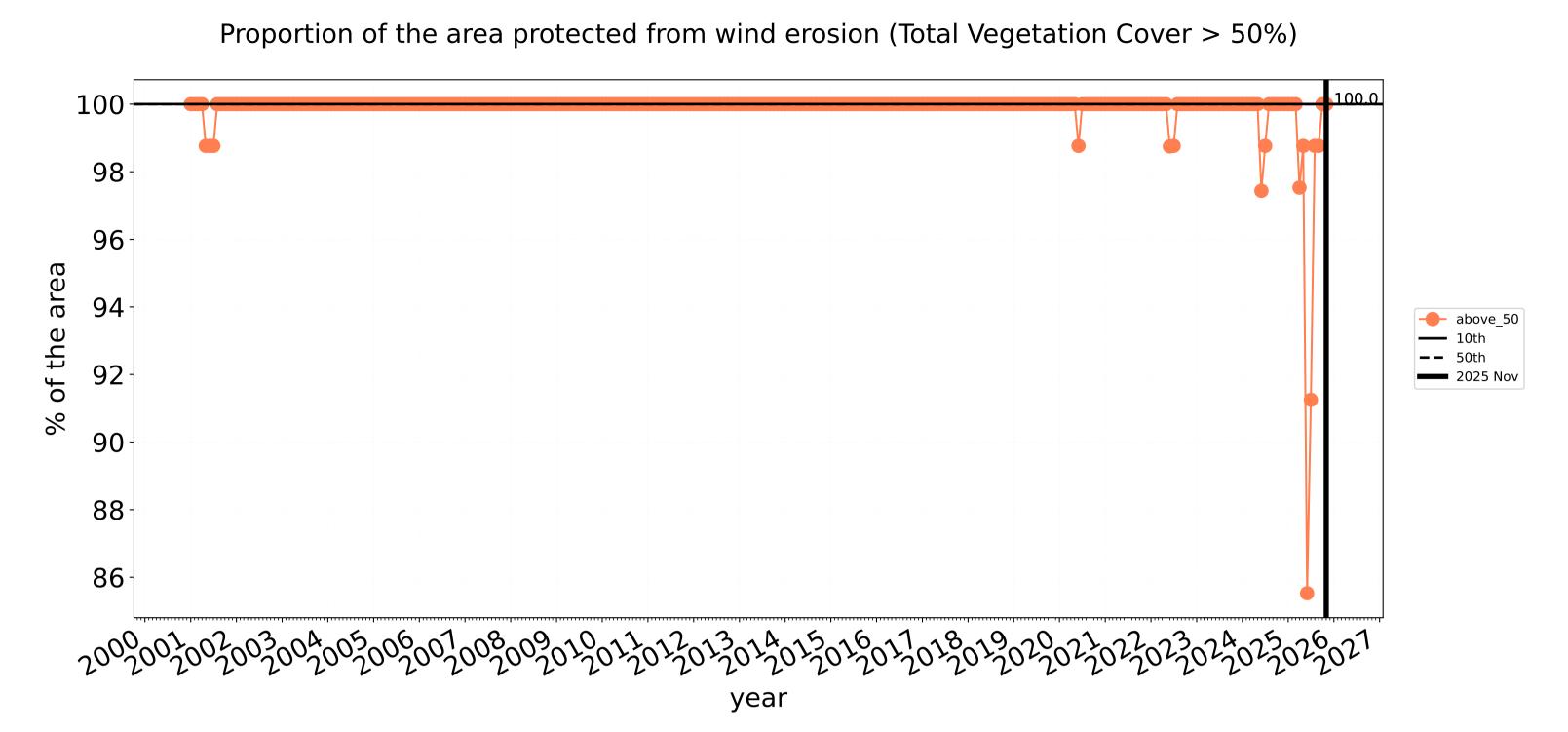


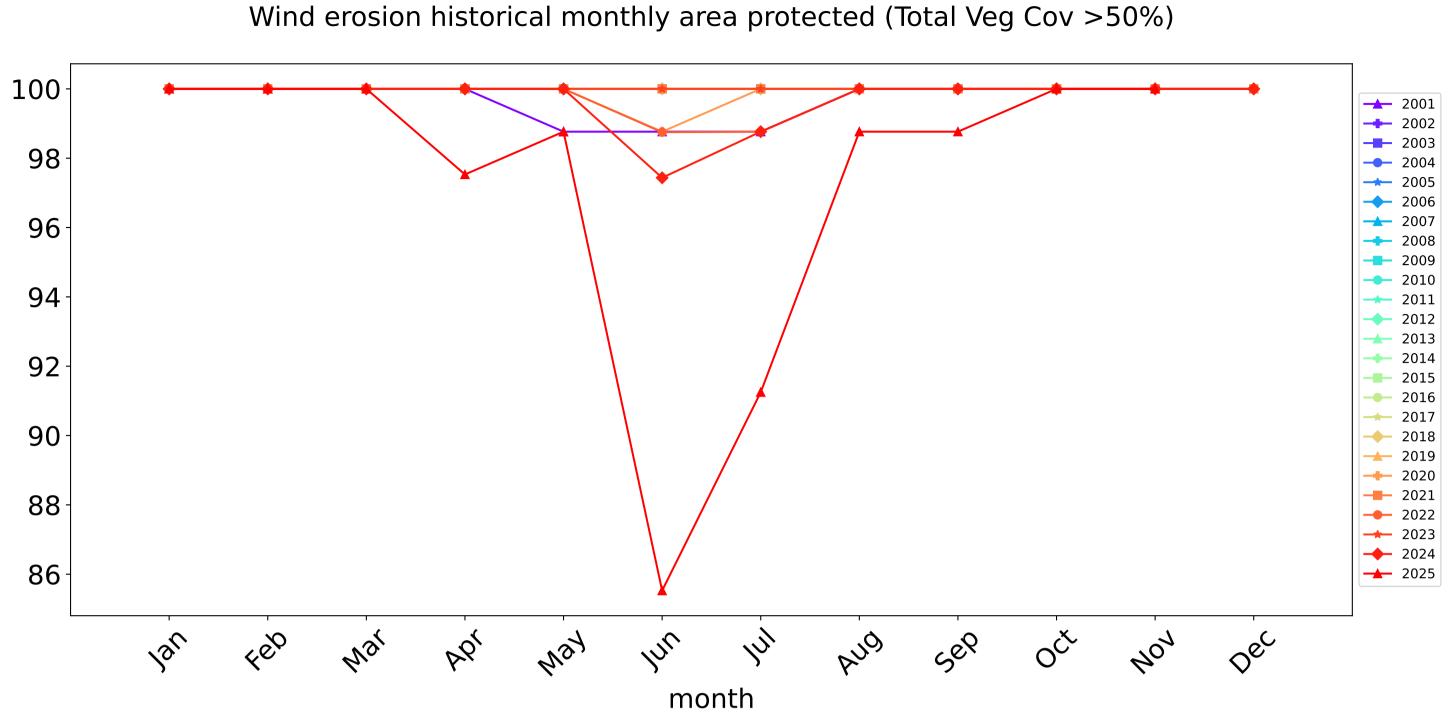


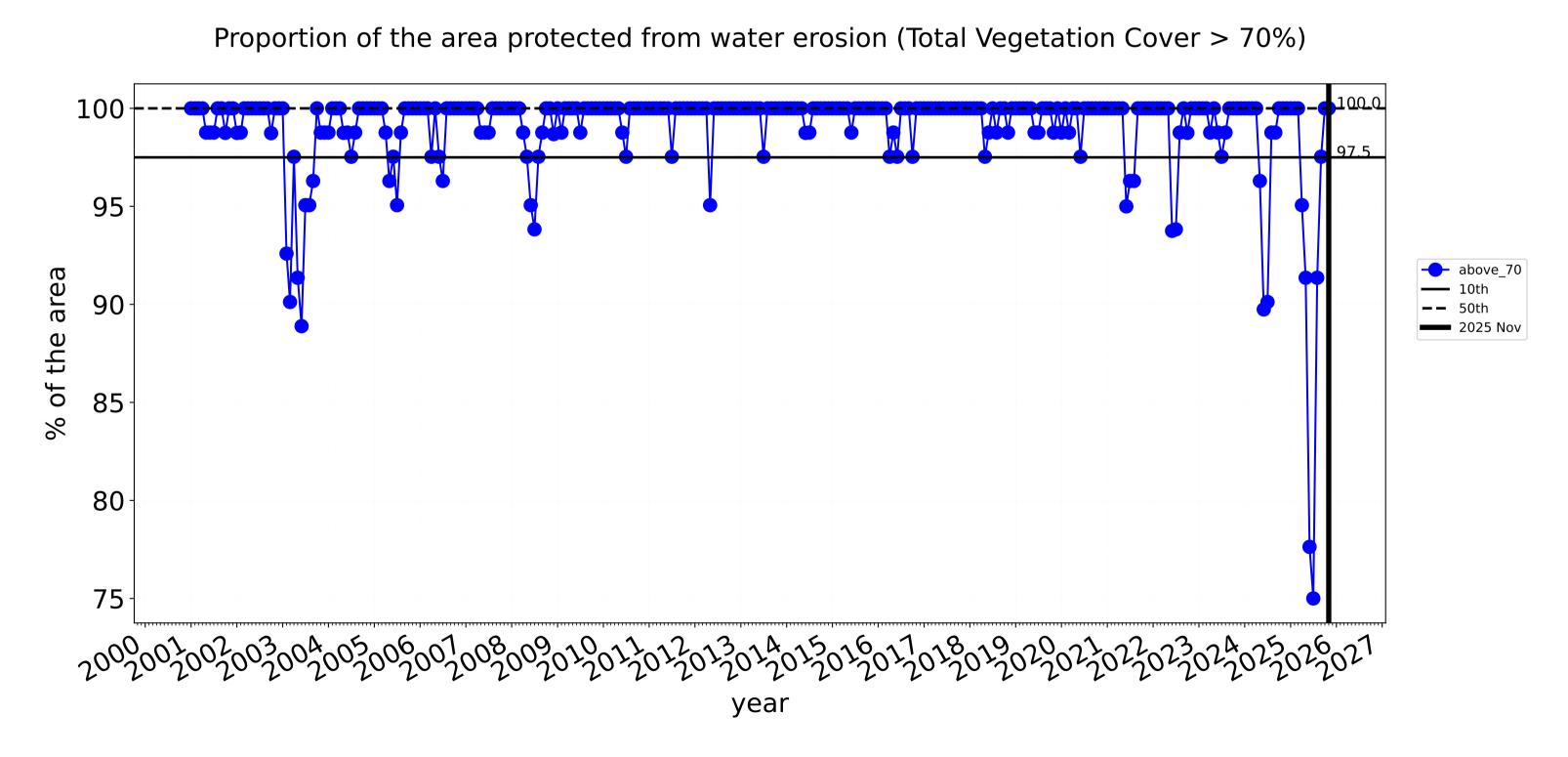


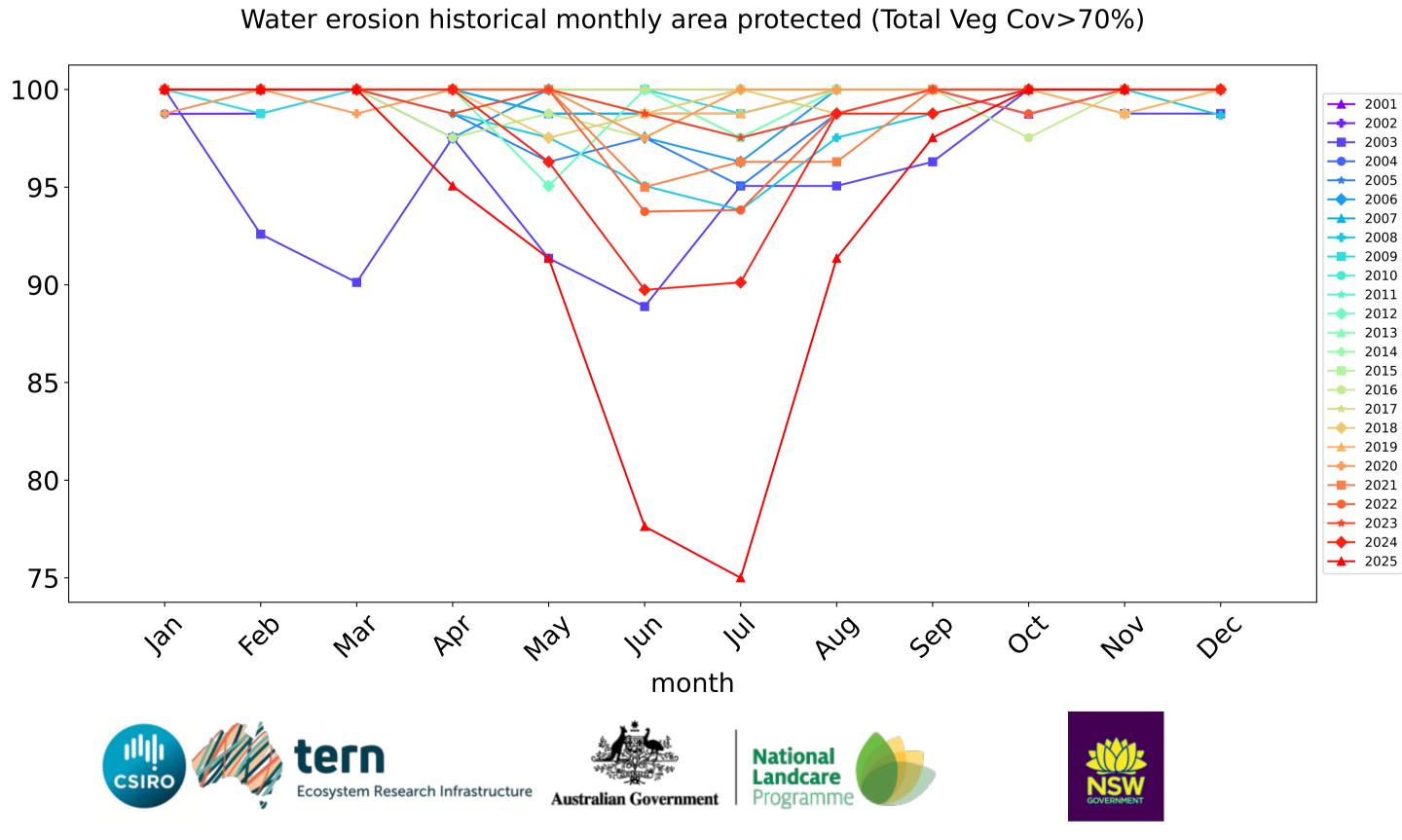


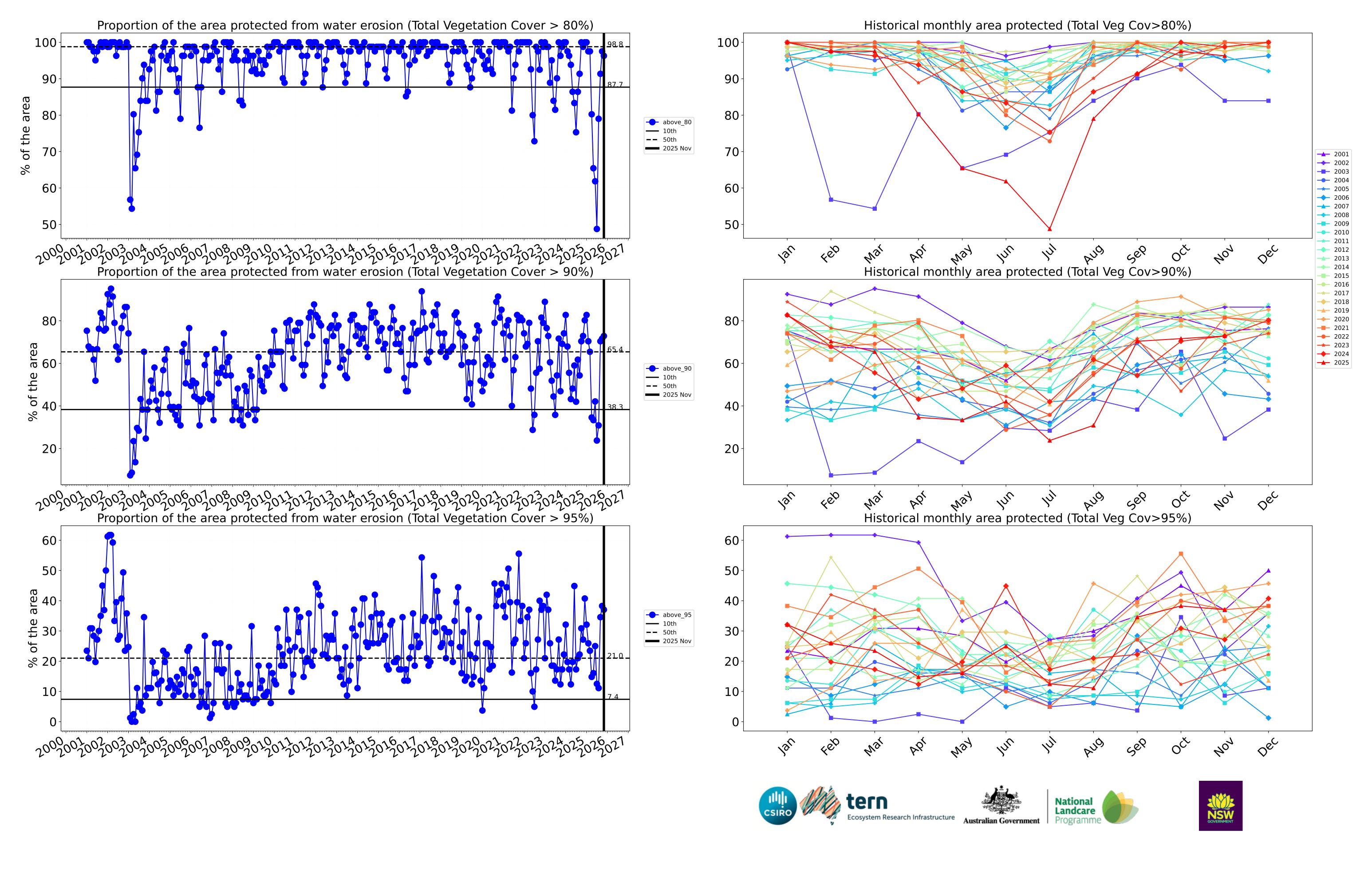
### **Conservation and natural environments Woodland forest timeseries**







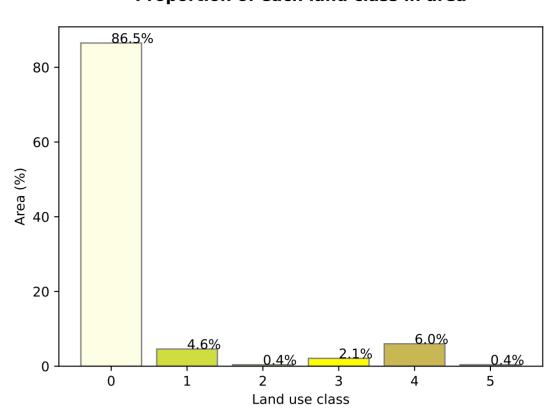




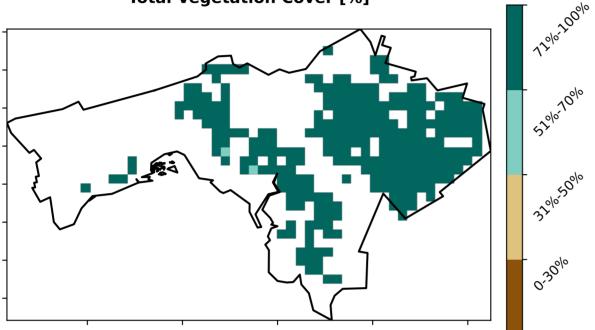
### **Agriculture**

## Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Land Use of Australia (2018) A griculture - Grazing - Non forest 2 Agriculture - Grazing - Woodland forest 3 Agriculture - Grazing - Non-woodland forest 4 Agriculture - Cropping - Non-irrigated Use of Australia (2018) 5 Agriculture - Cropping - Irrigated 6 Agriculture - Horticulture - Irrigated

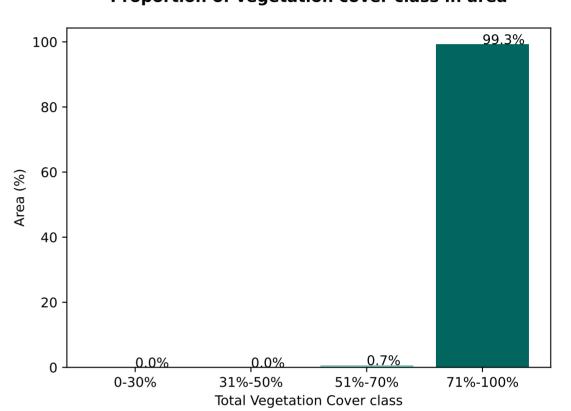
### Proportion of each land class in area



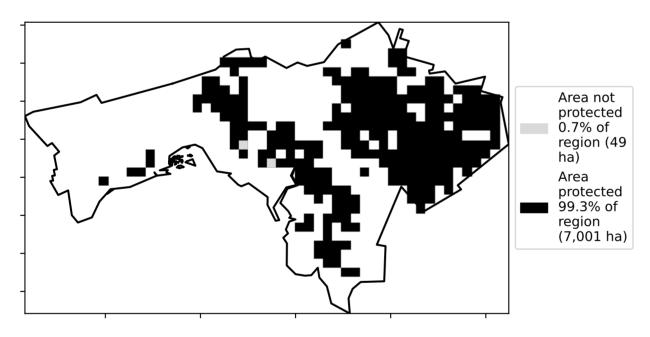




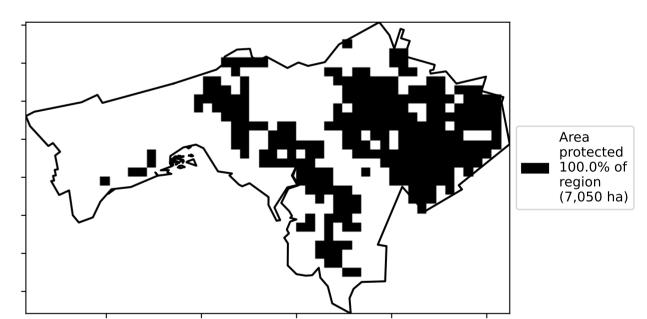
Proportion of vegetation cover class in area



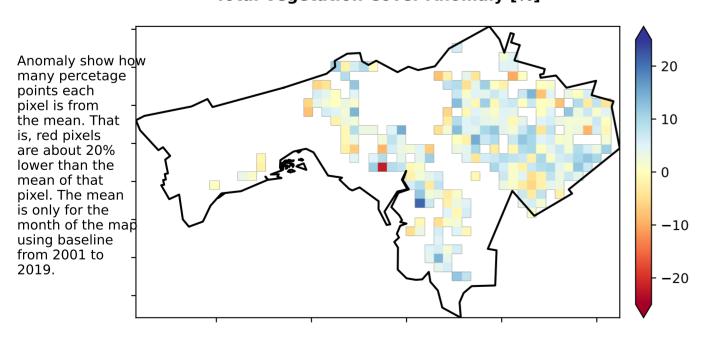
### % Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)



### Total Vegetation Cover Anomaly [%]



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**Total Vegetation Cover Decile [%]** 

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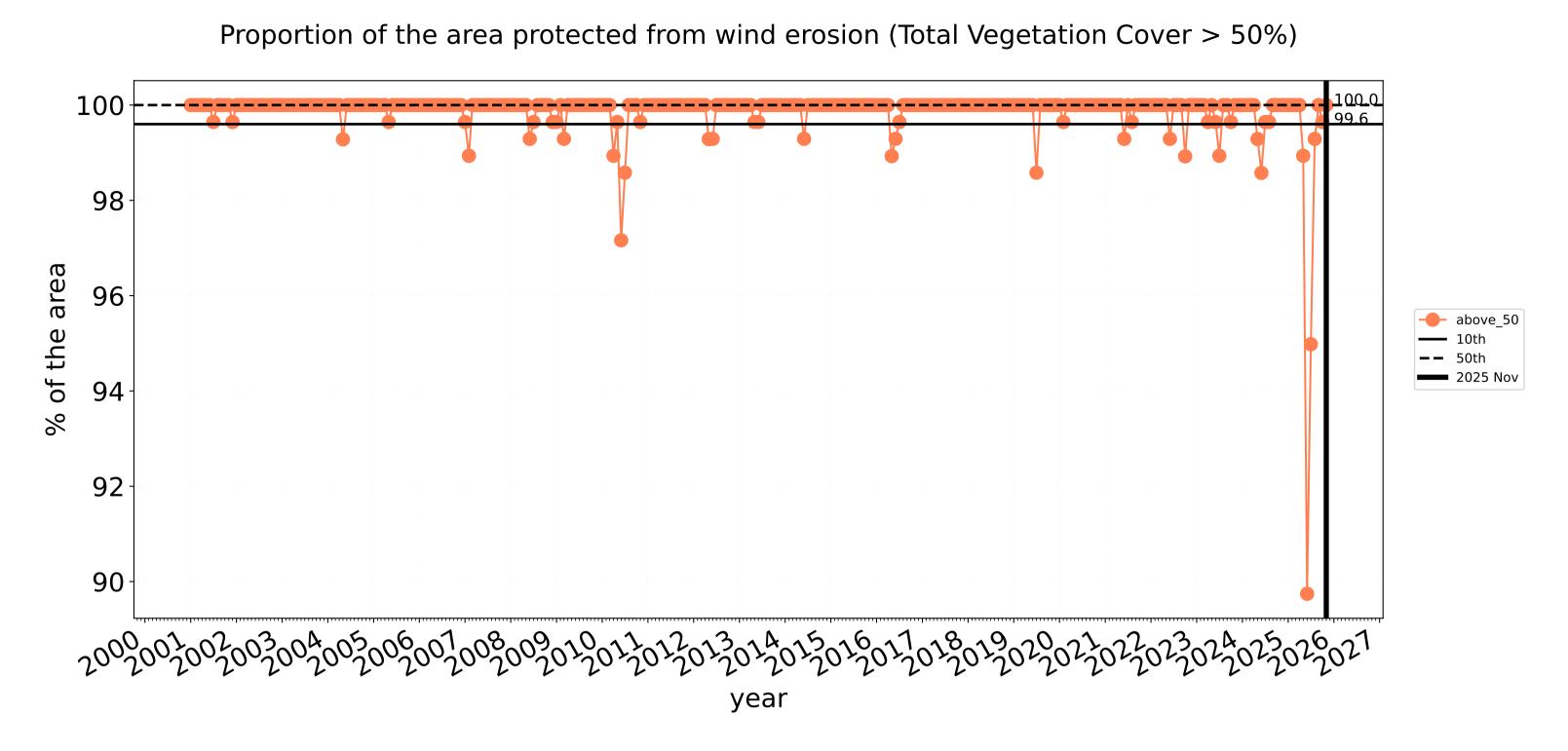


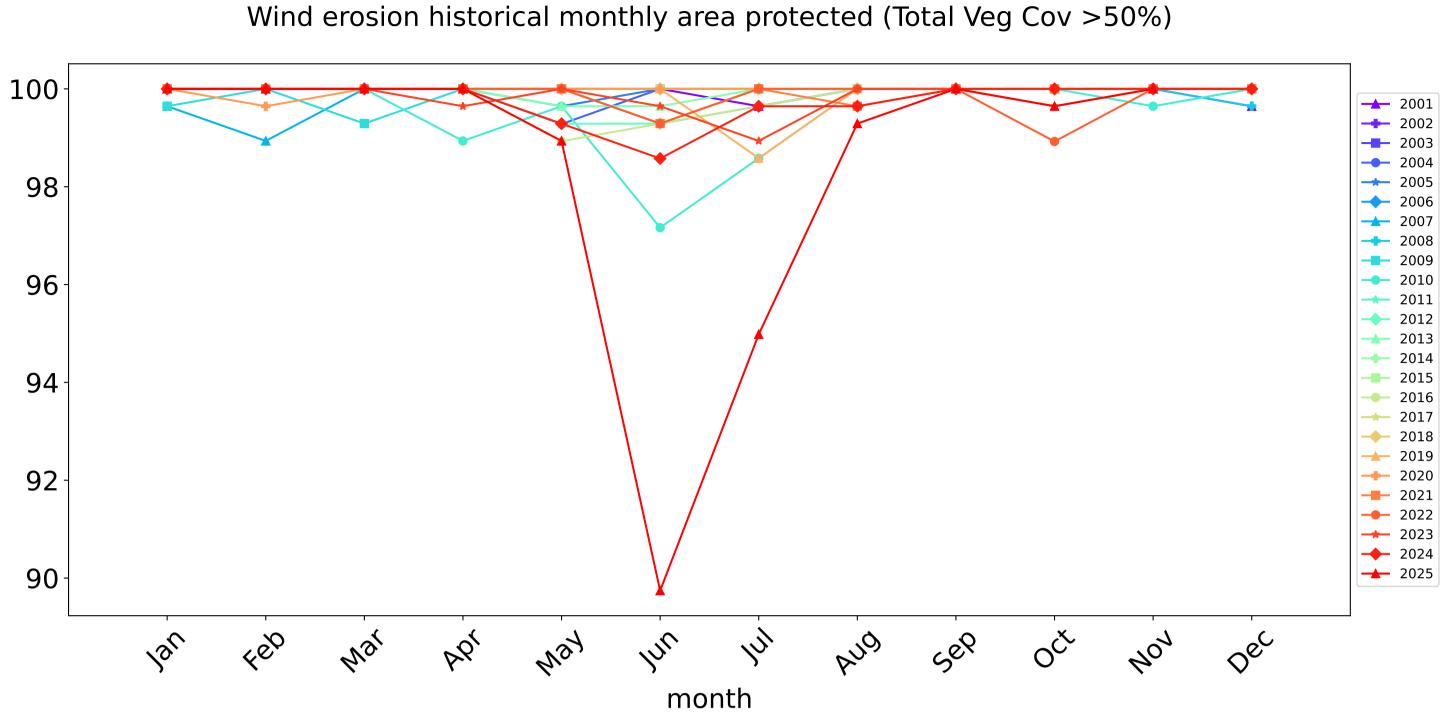


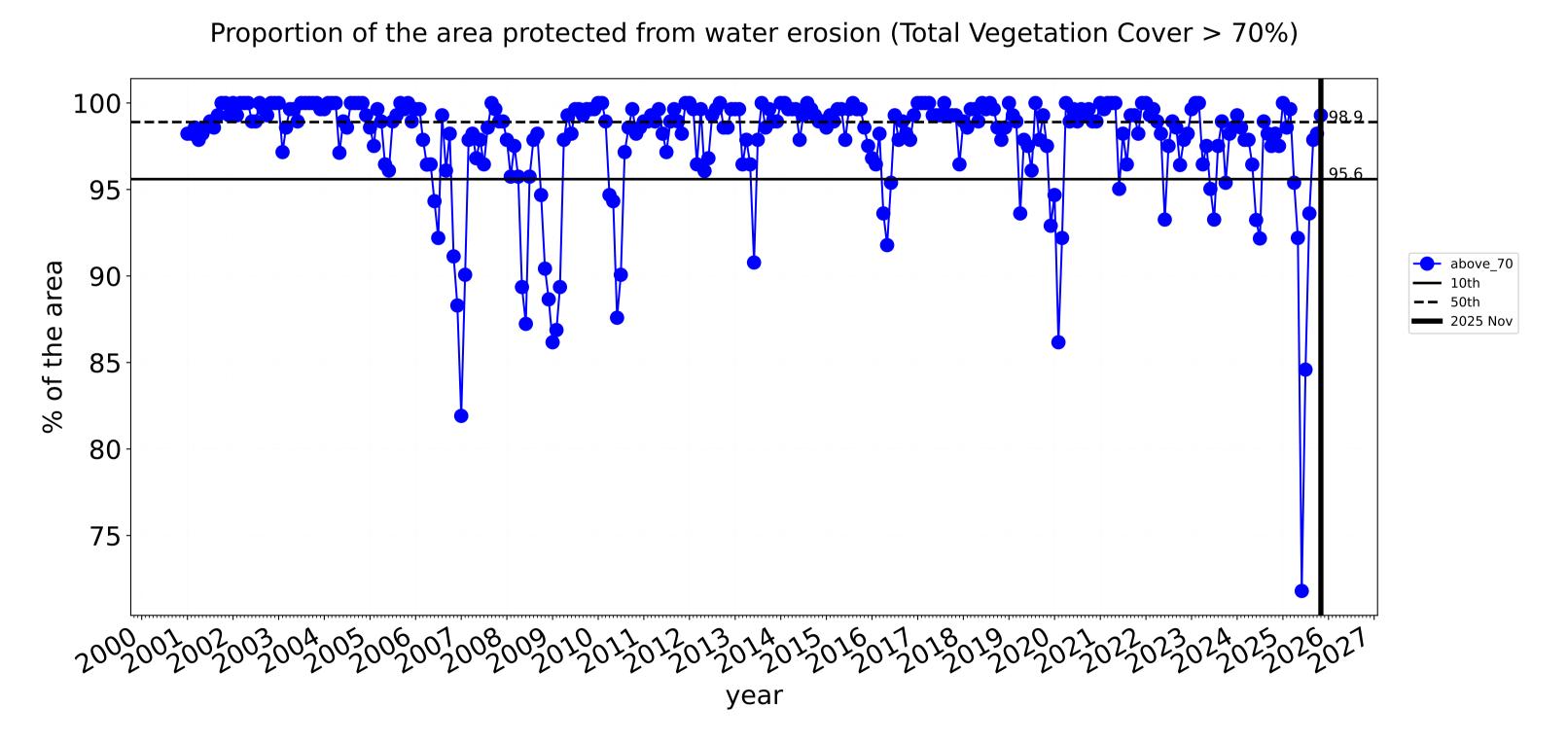


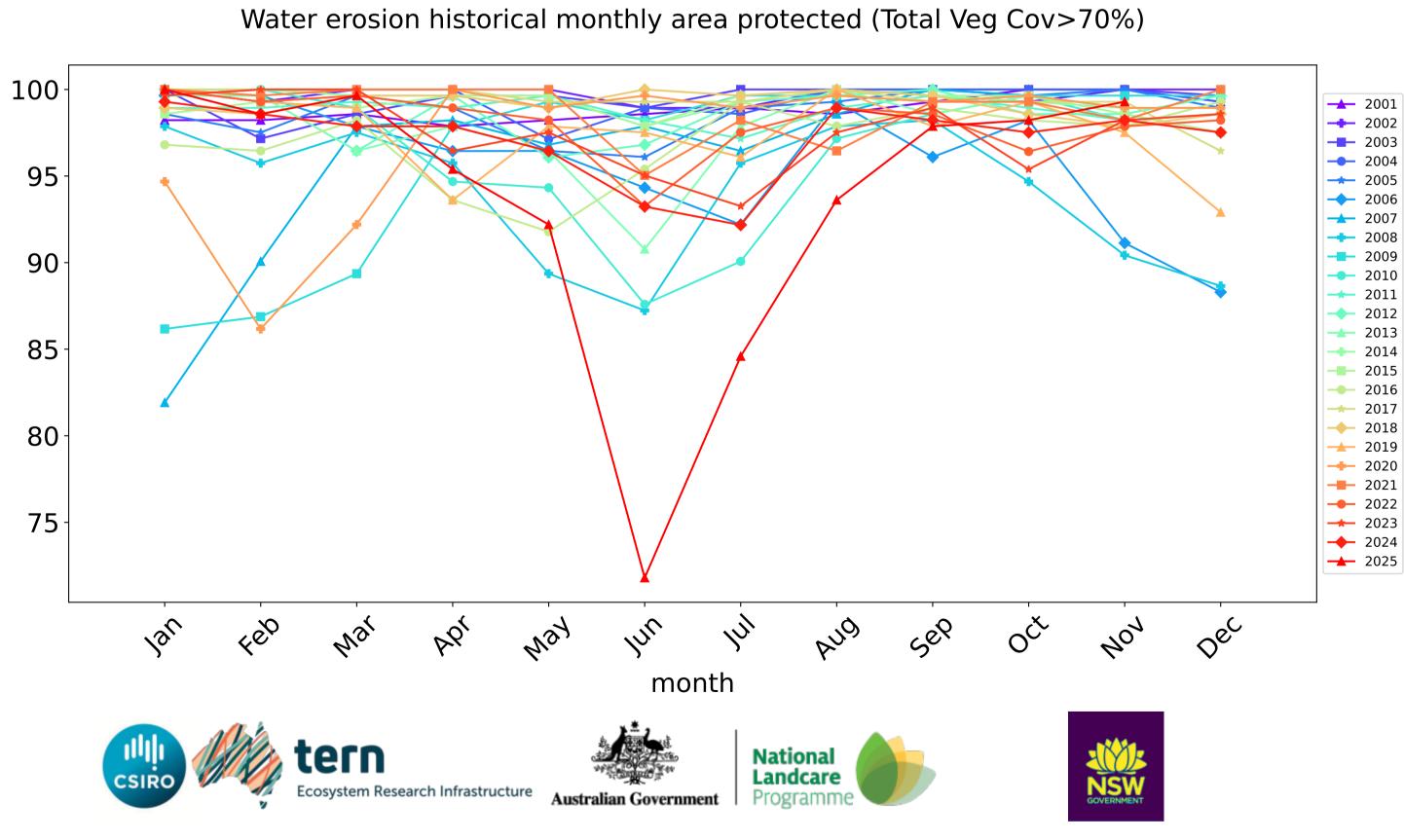


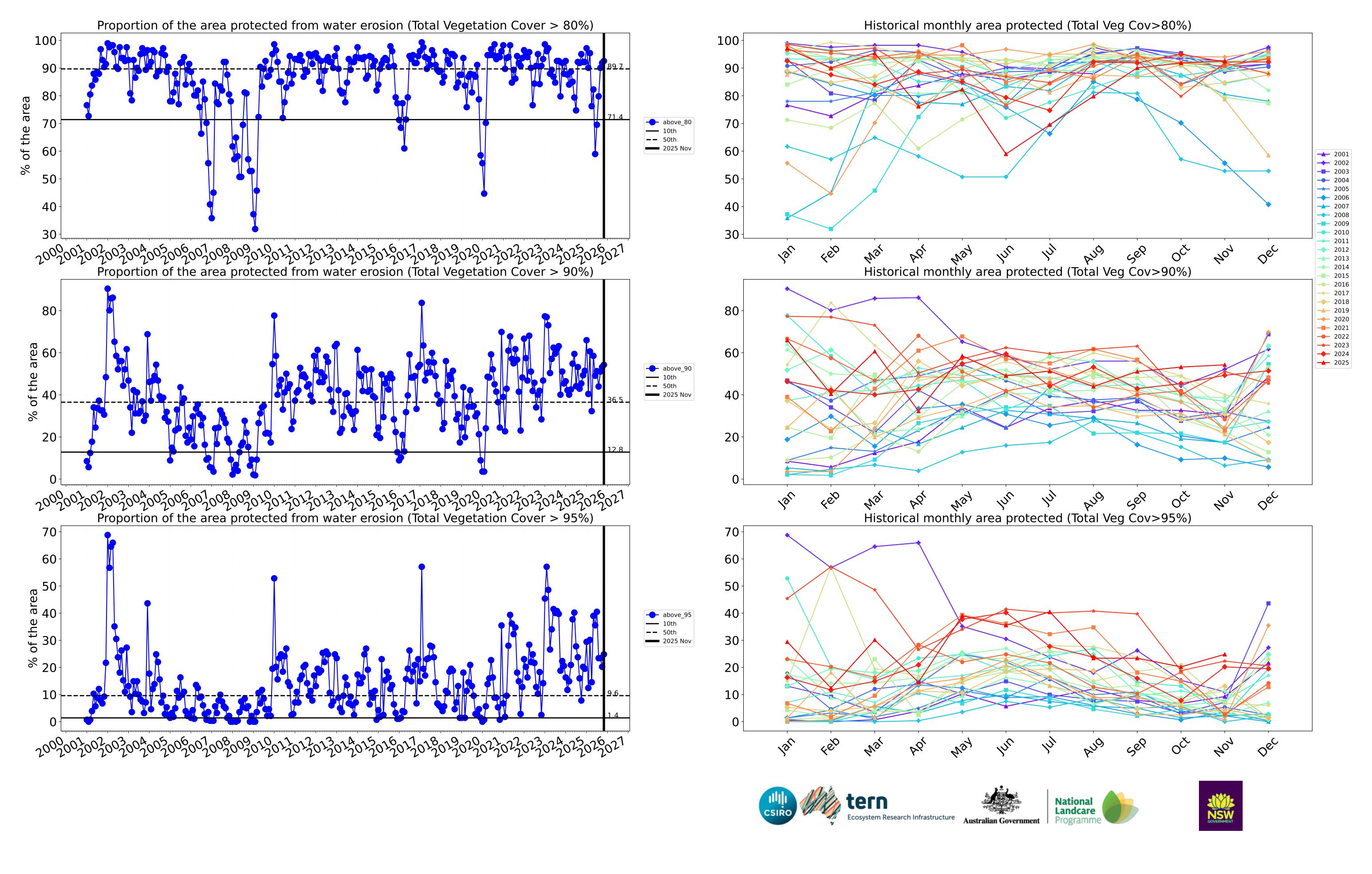
### **Agriculture timeseries**







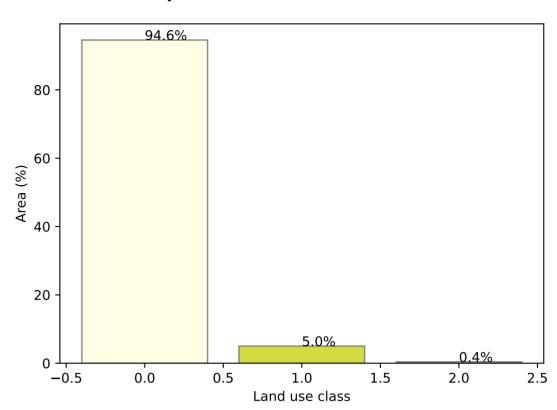




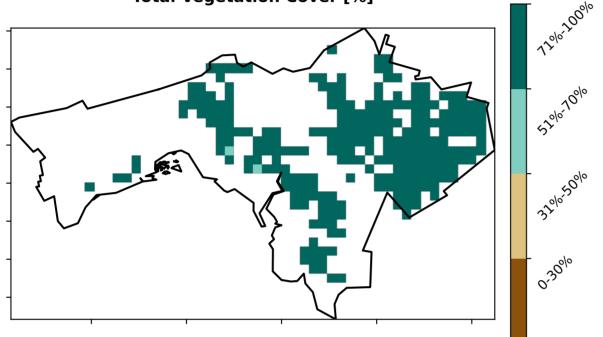
### **Grazing**

## Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Land Use and Forests Of Australia (2018) 1 Agriculture - Grazing - Non forest 2 Agriculture - Grazing - Woodland forest Use of Australia (2018) 3 Agriculture - Grazing - Non-woodland forest Of Australia (2018)

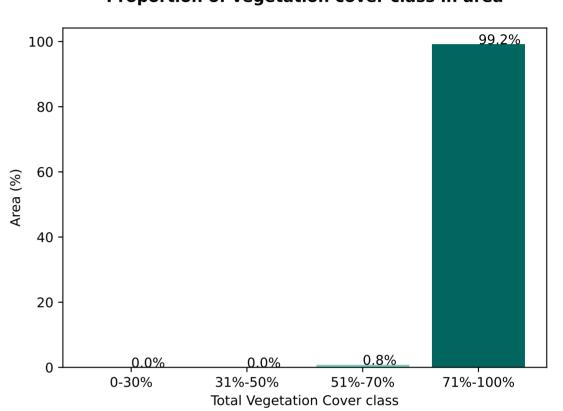
### Proportion of each land class in area



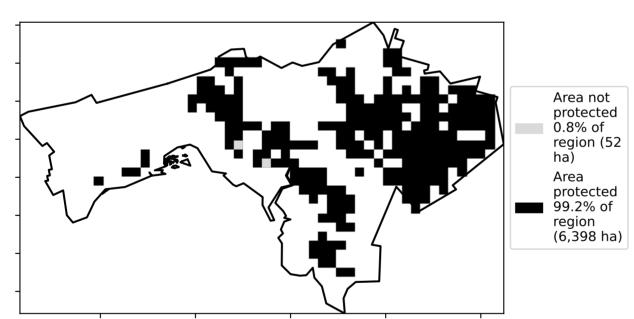




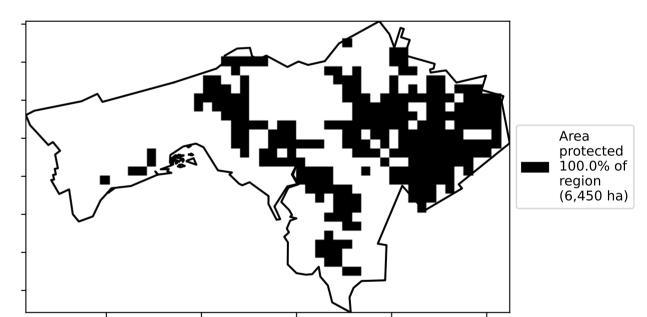
Proportion of vegetation cover class in area



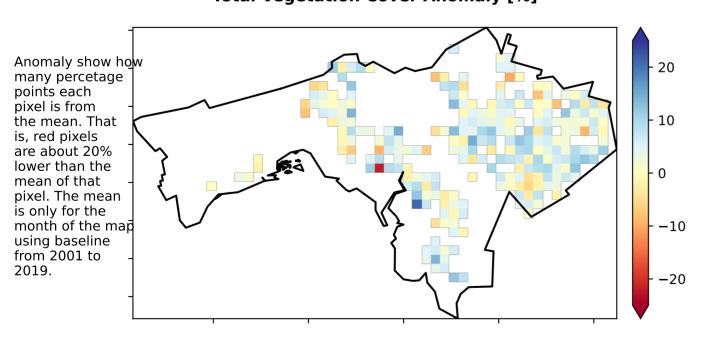
### % Area protected from water erosion (>70%)



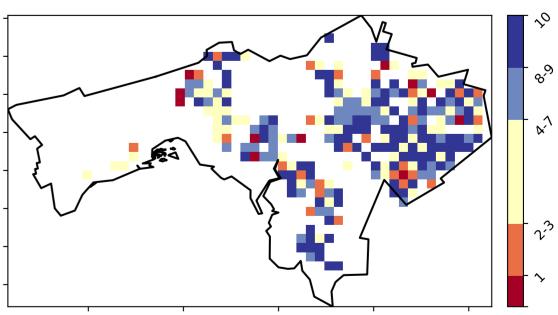
% Area protected from wind erosion (>50%)



### Total Vegetation Cover Anomaly [%]



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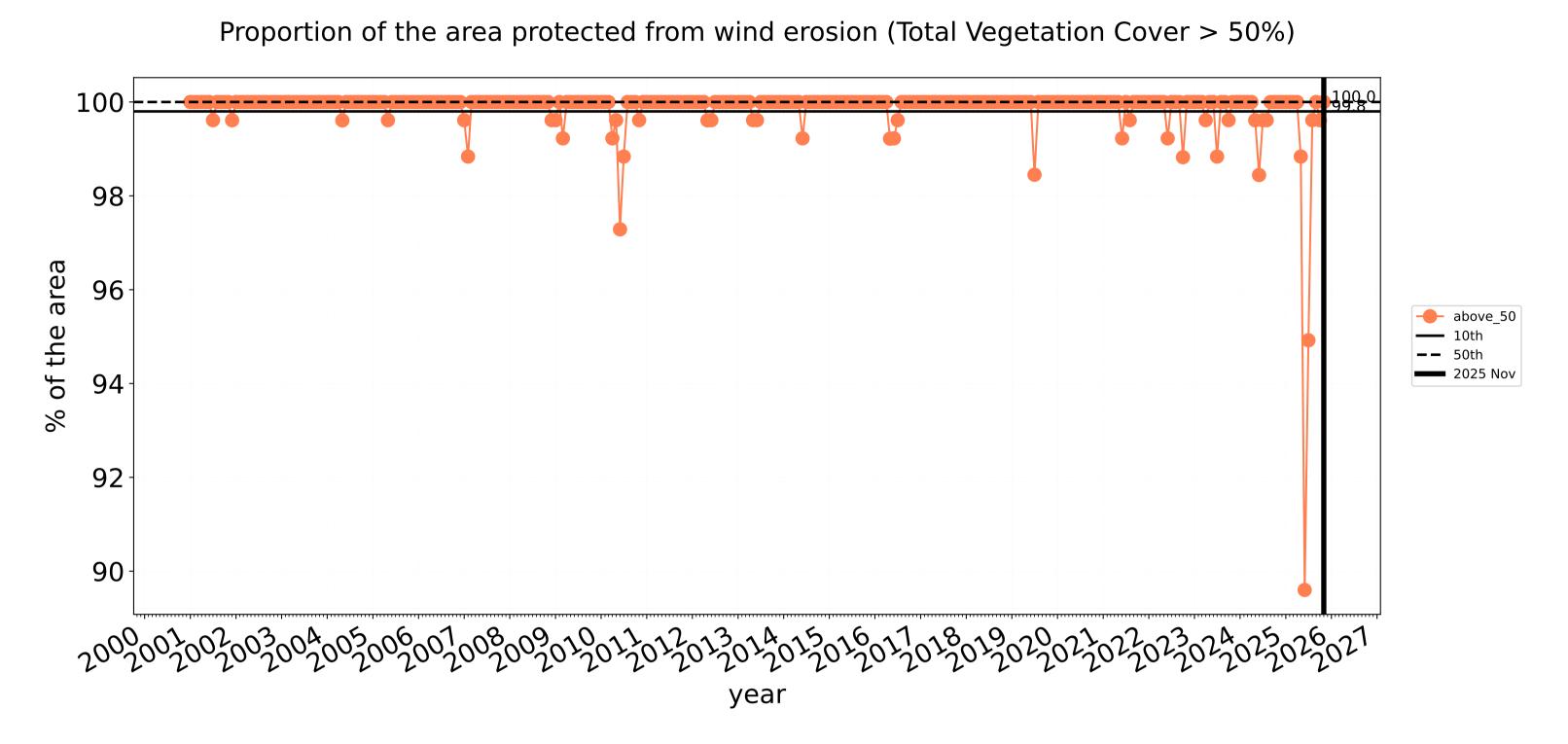


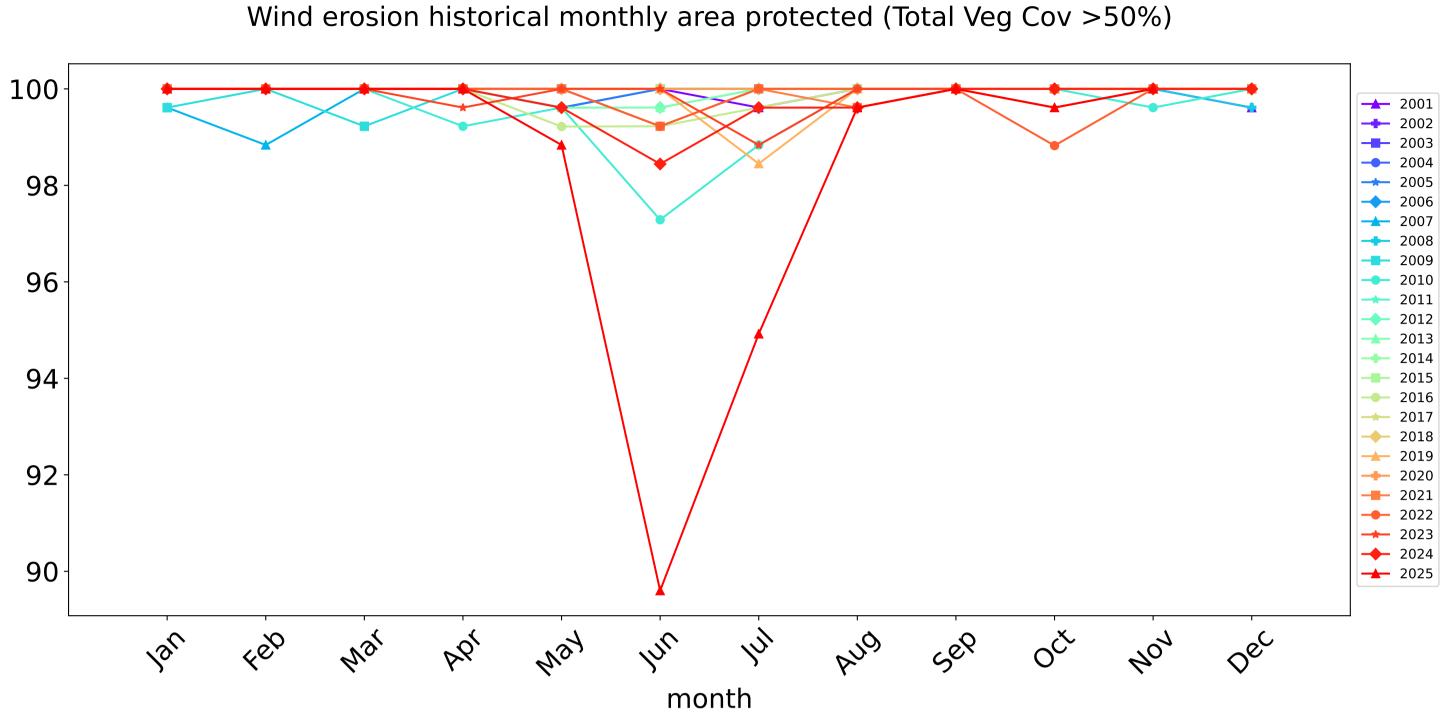


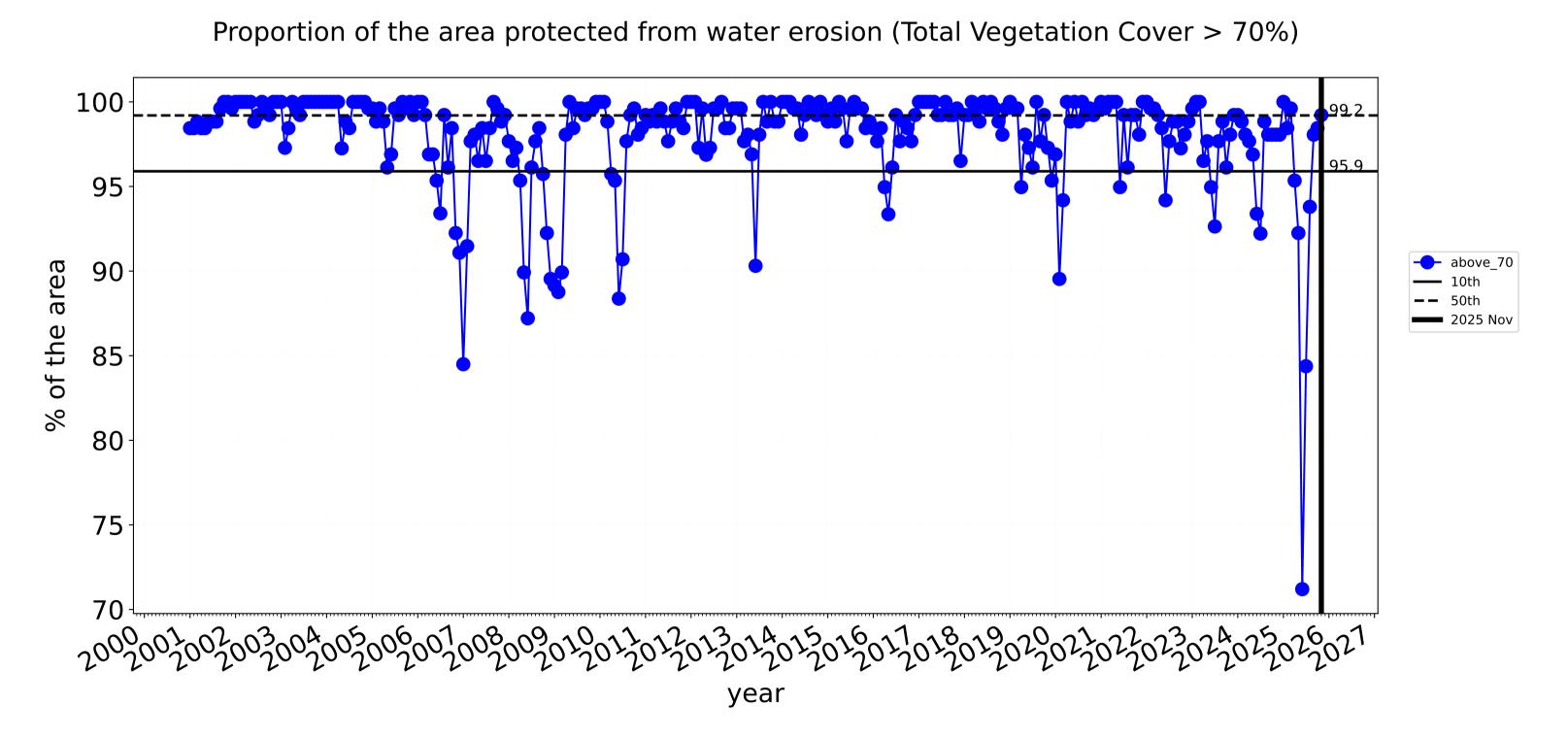


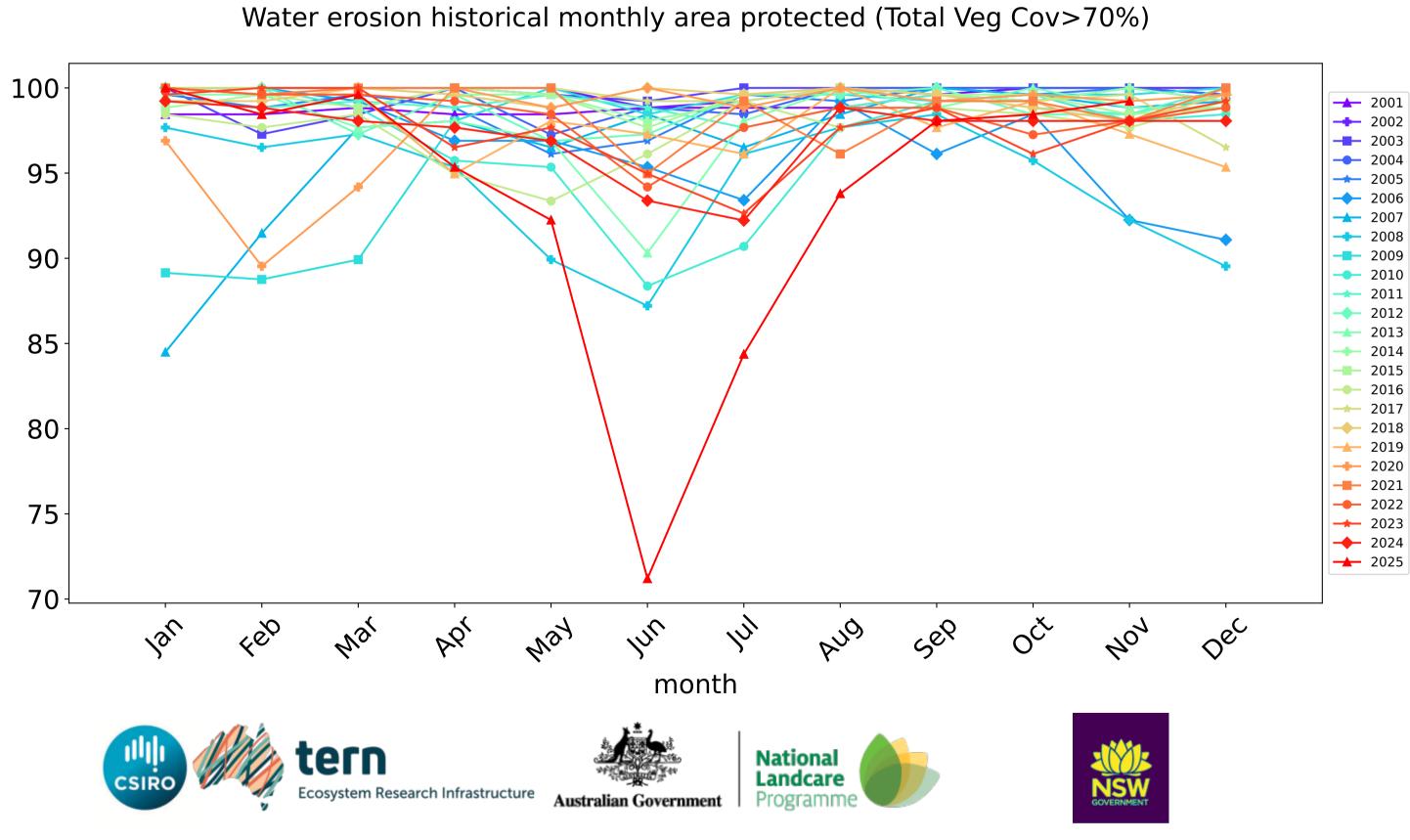


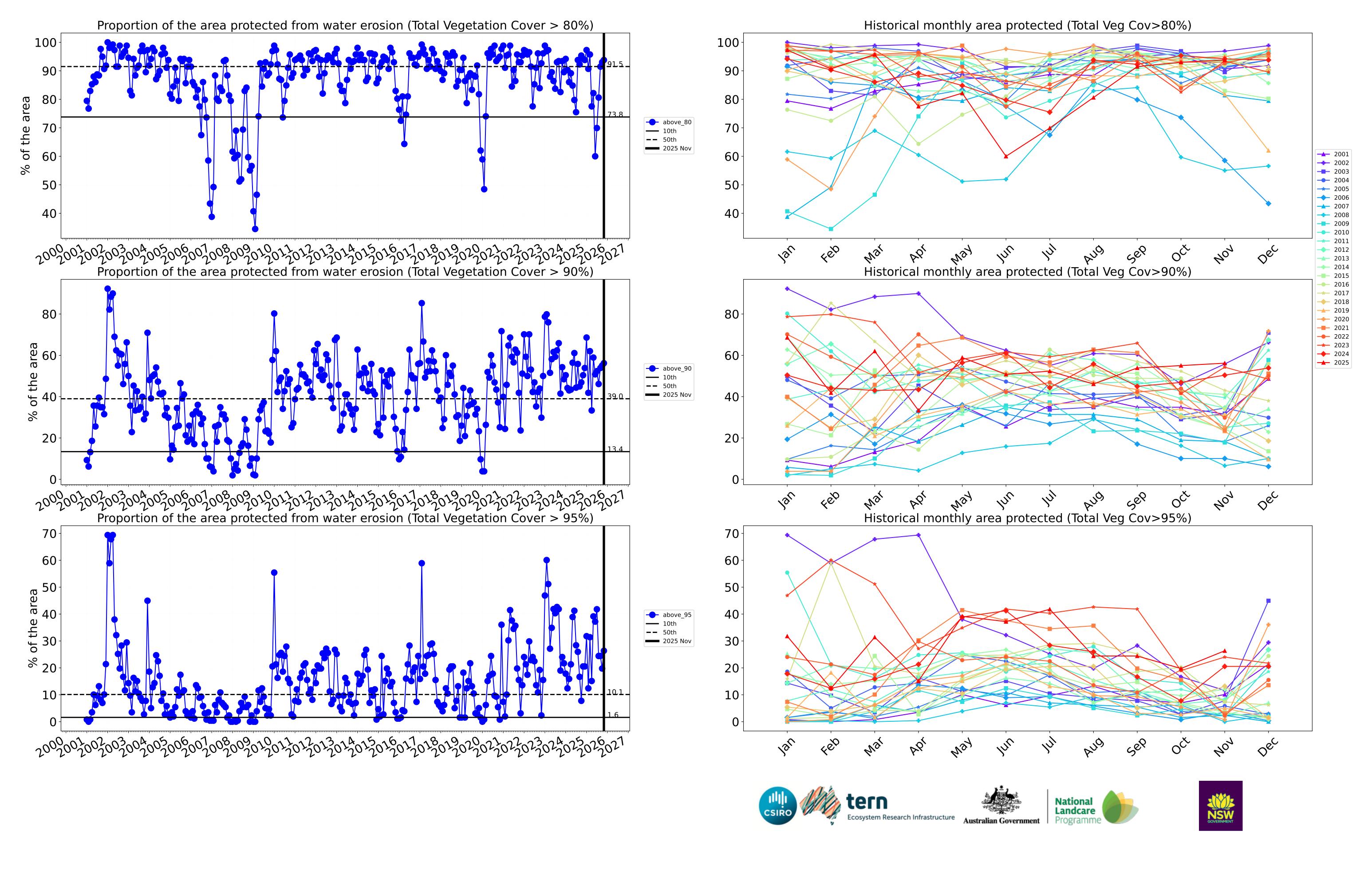
### **Grazing timeseries**





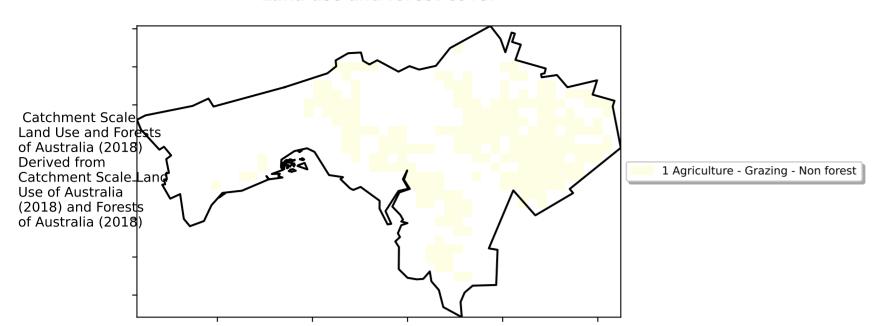






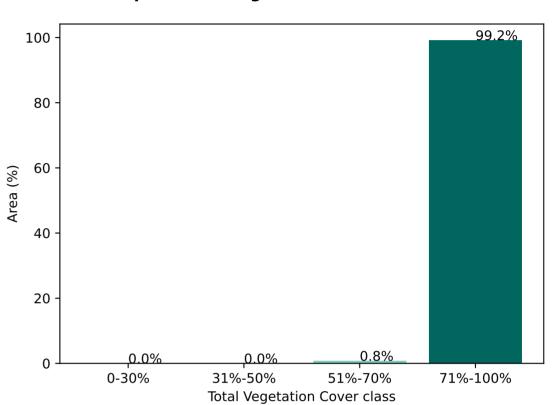
### **Grazing non forest**

### Land use and forest cover

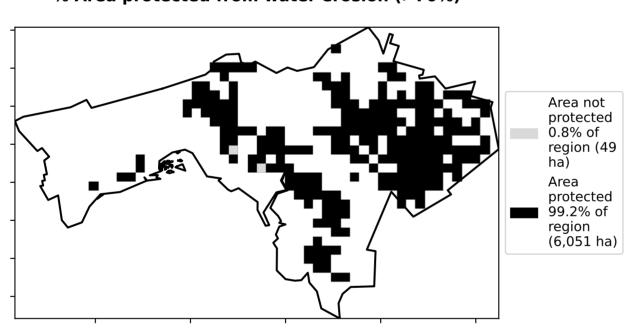


# Total Vegetation Cover [%] The last of the second of the

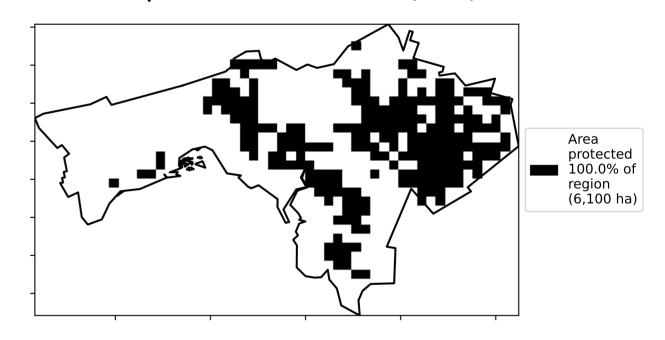
### Proportion of vegetation cover class in area



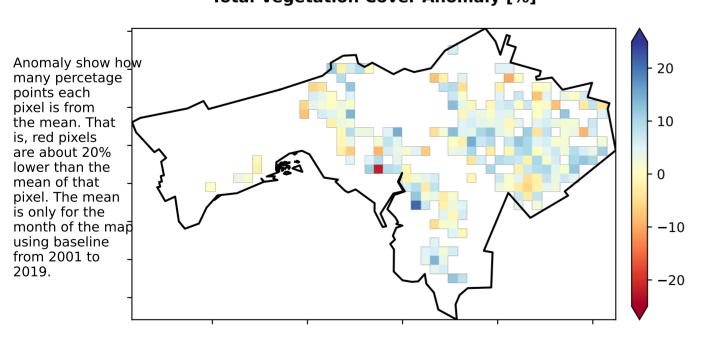
### % Area protected from water erosion (>70%)



% Area protected from wind erosion (>50%)



### Total Vegetation Cover Anomaly [%]



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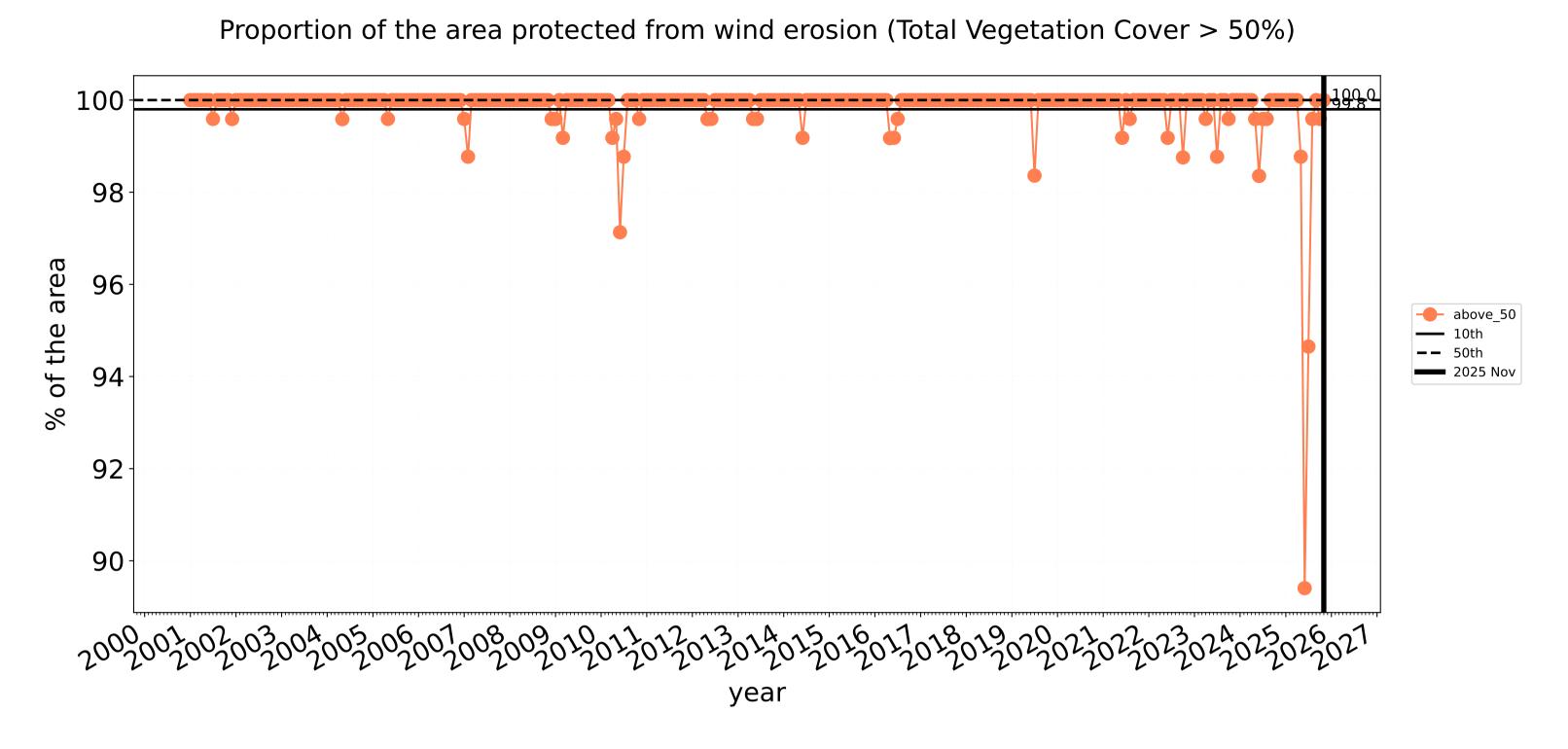


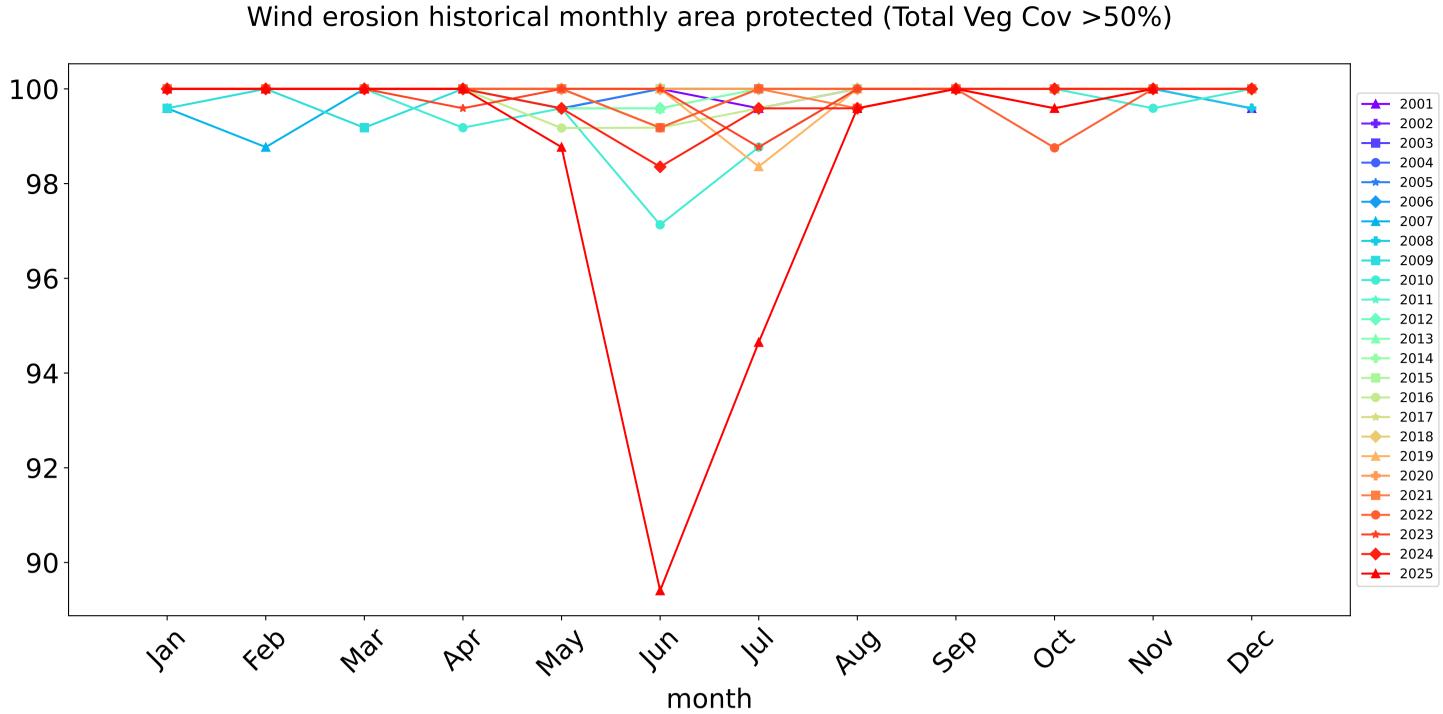


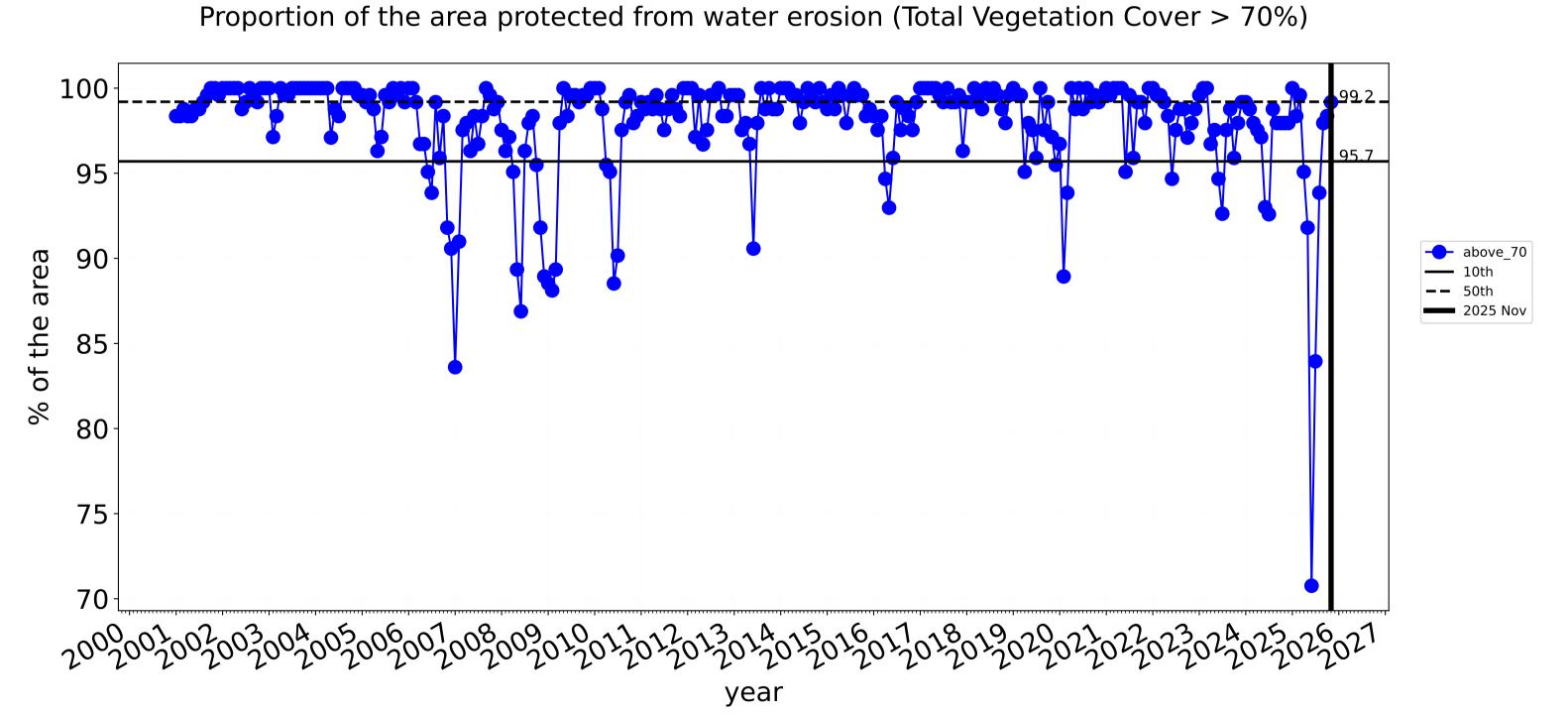


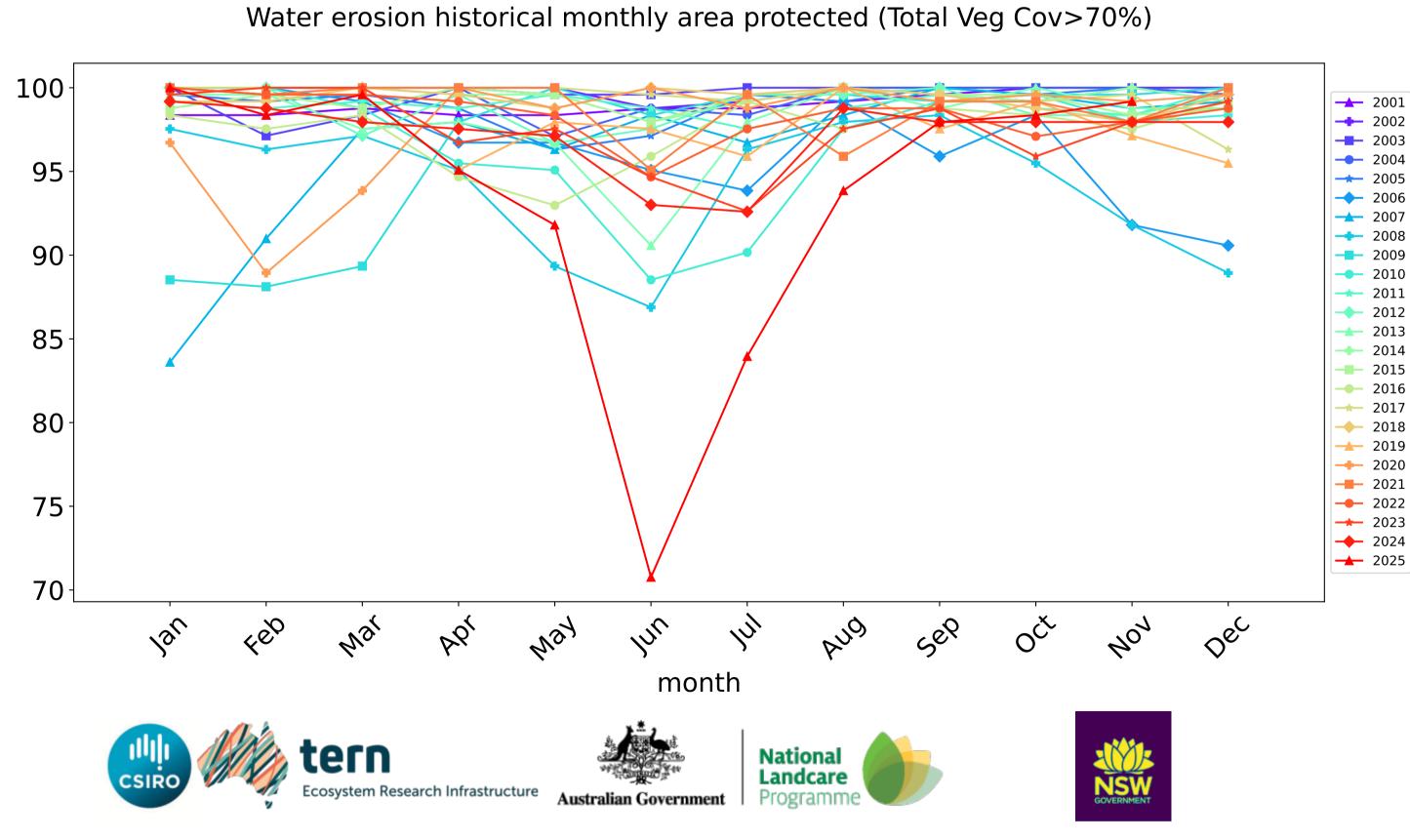


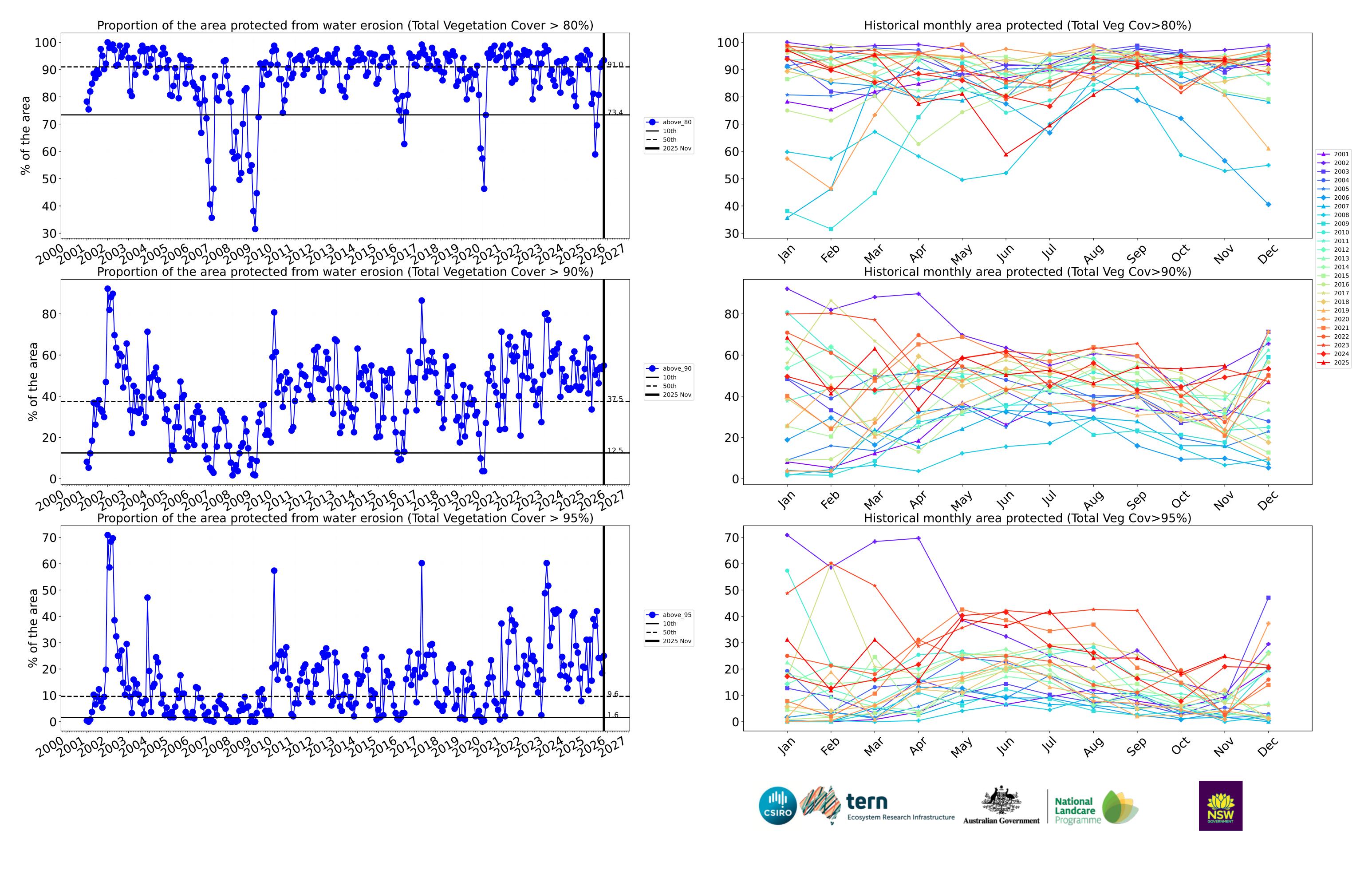
### **Grazing non forest timeseries**





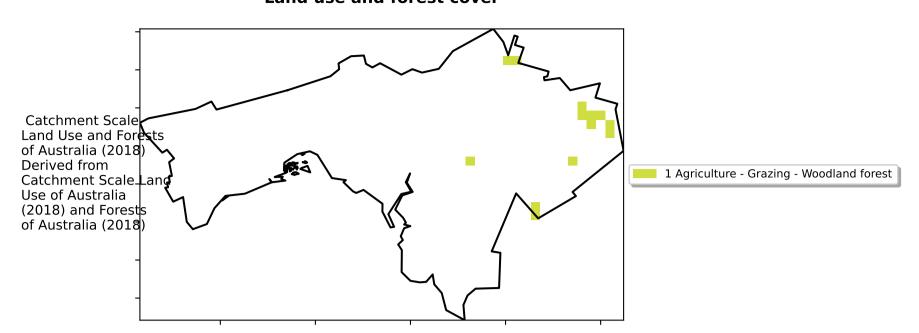






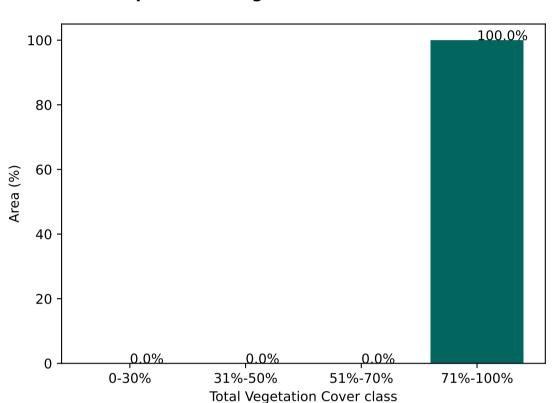
### **Grazing Woodland forest**

### Land use and forest cover

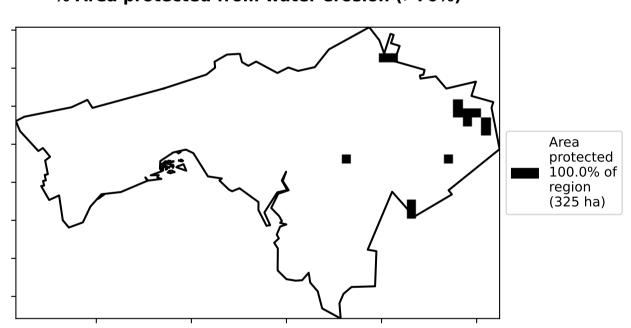


# 

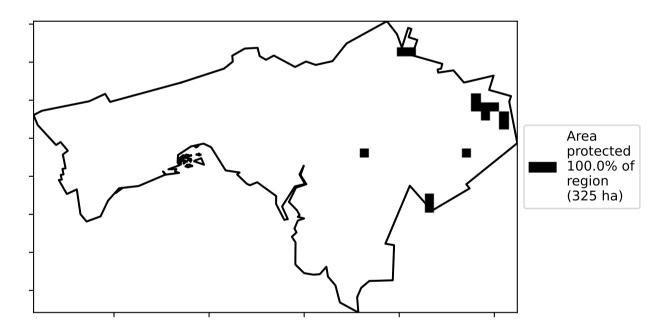
### **Proportion of vegetation cover class in area**



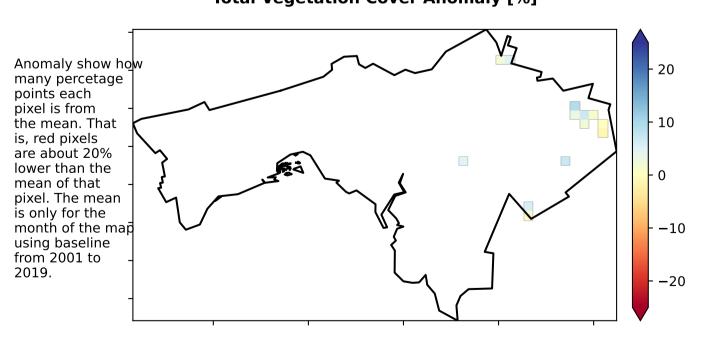
### % Area protected from water erosion (>70%)



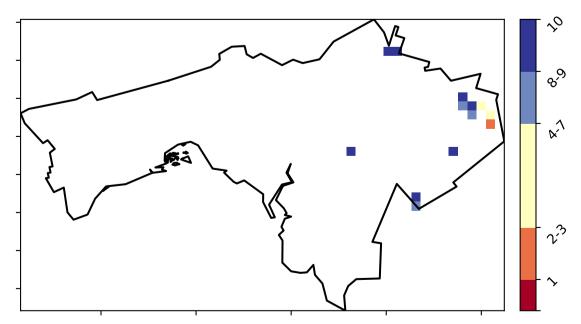
% Area protected from wind erosion (>50%)



### 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.



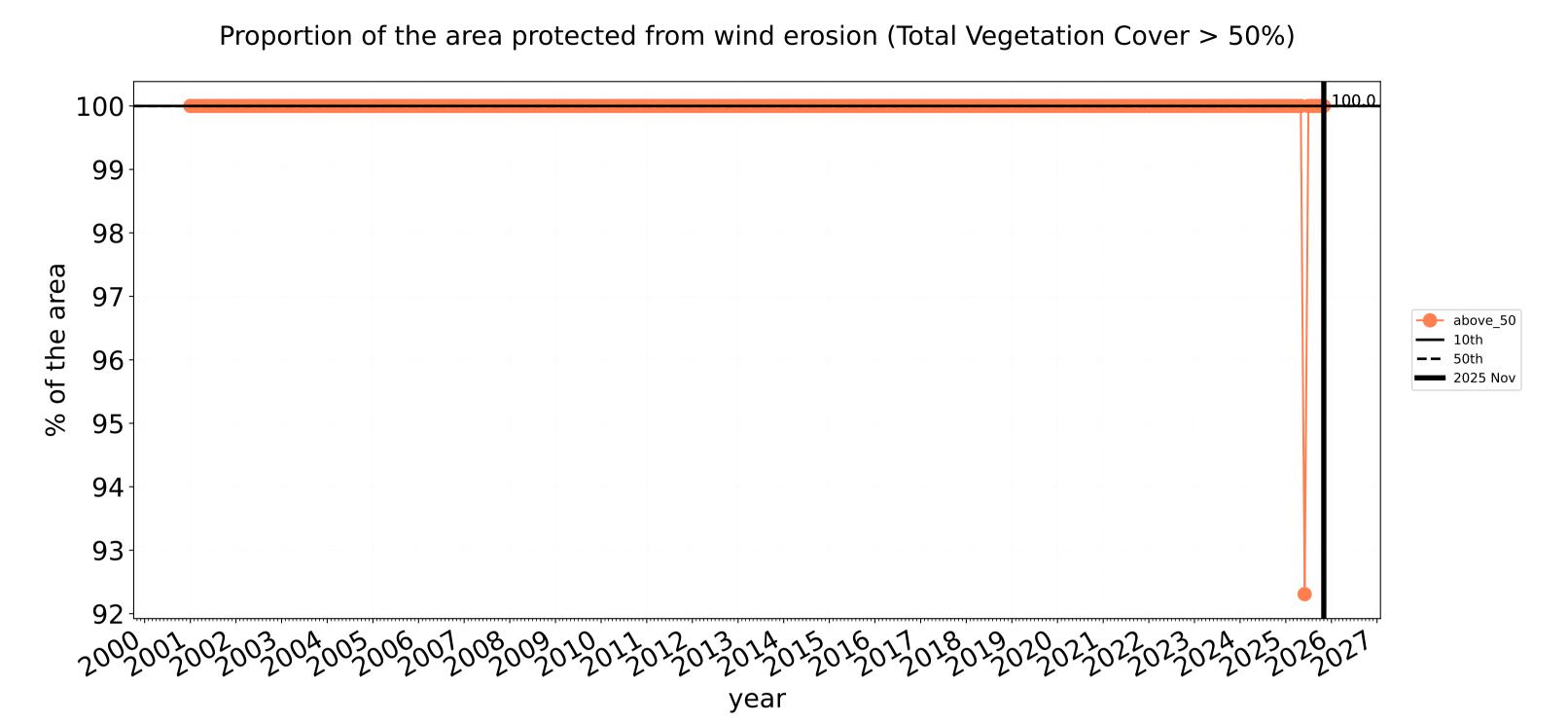


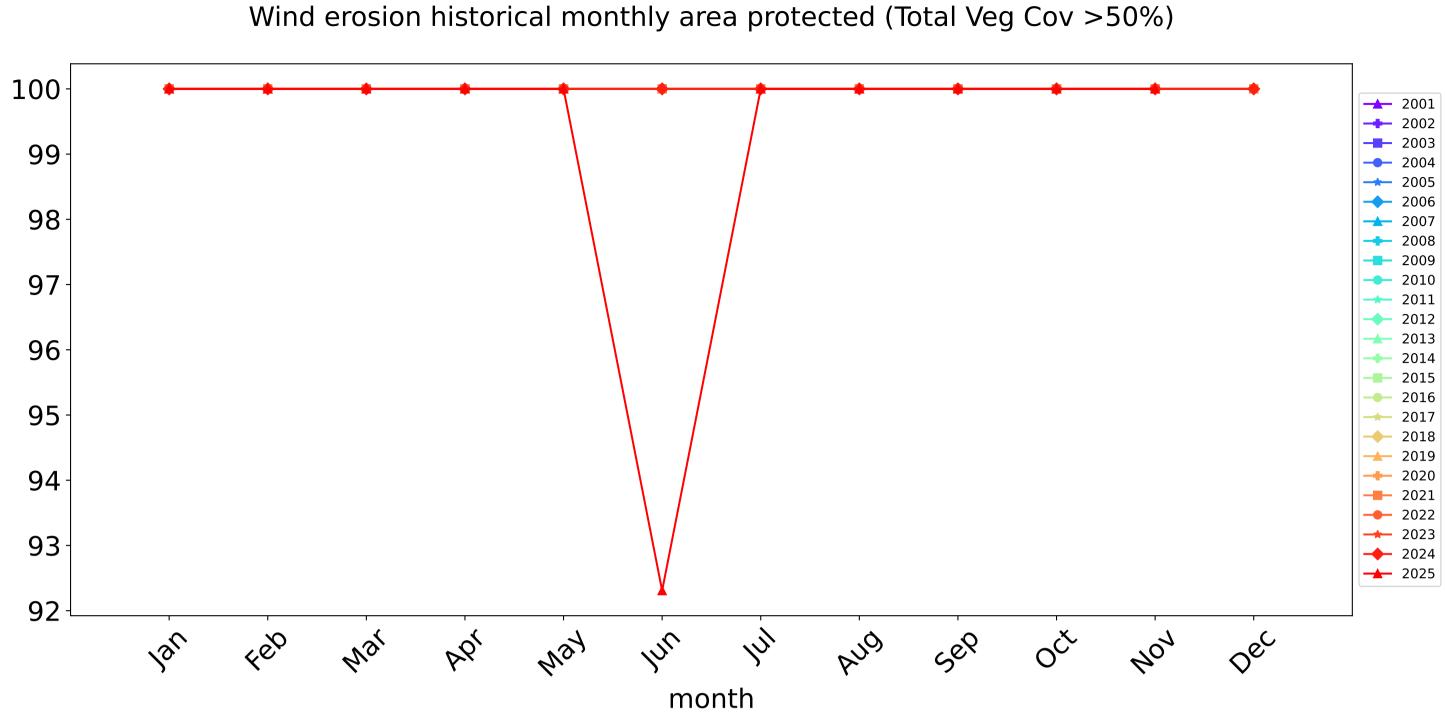


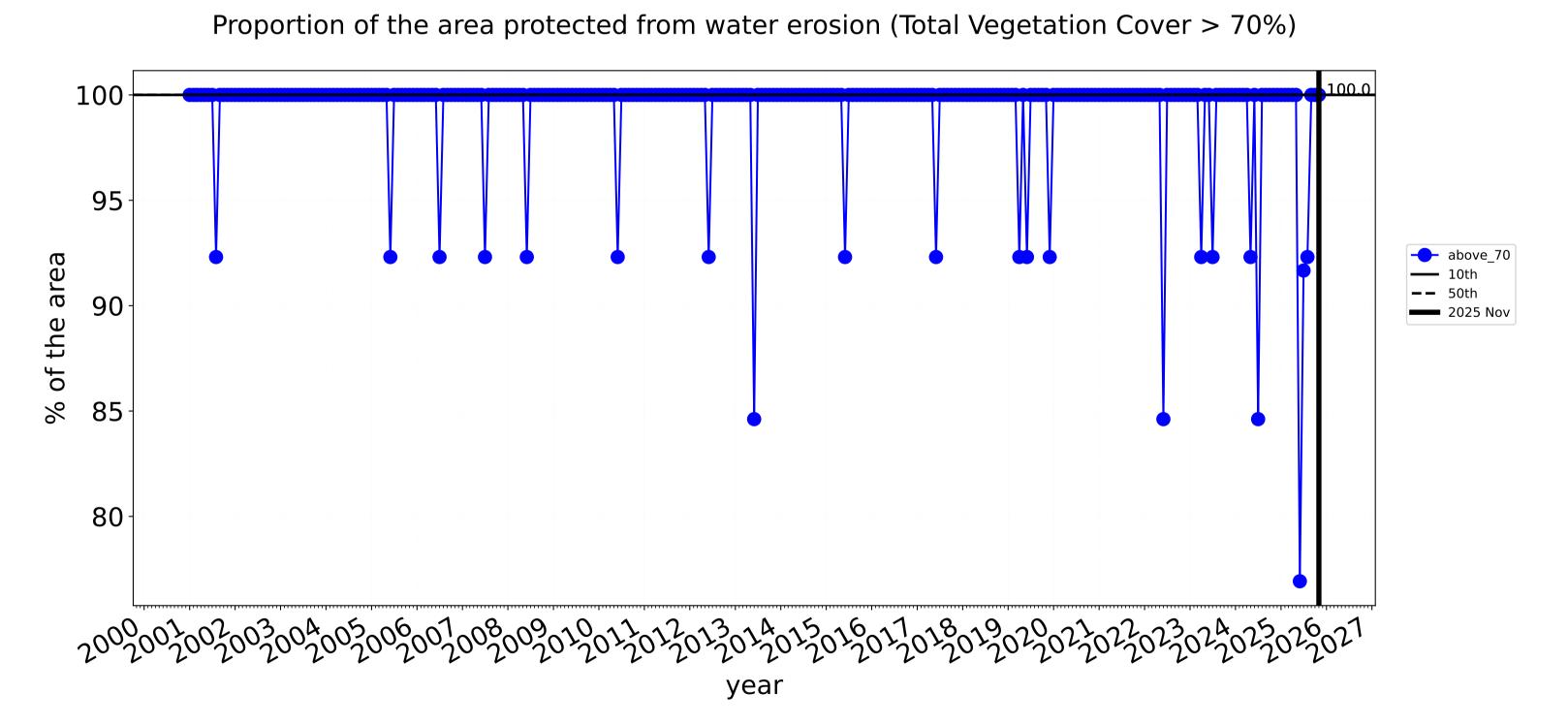


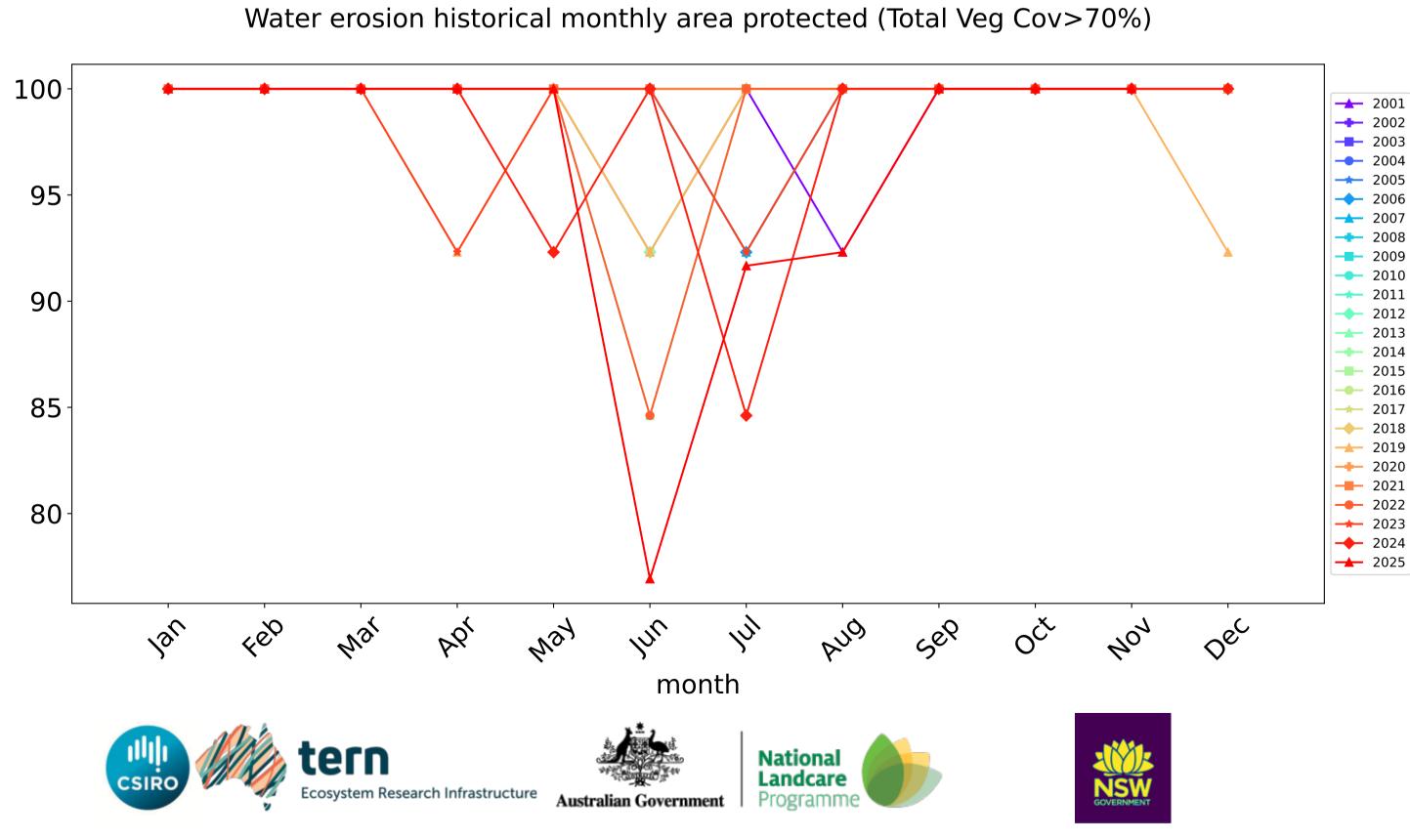


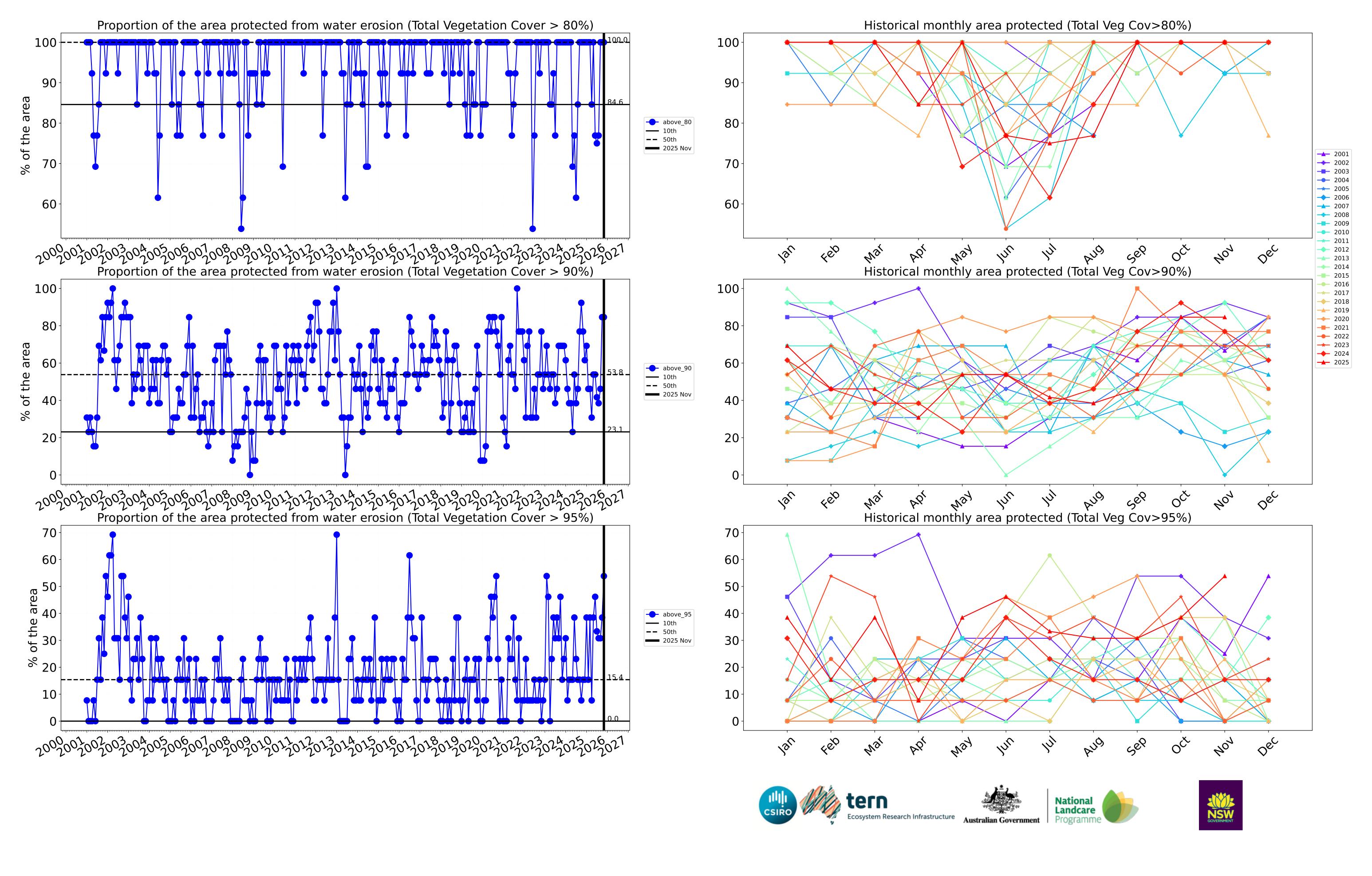
### **Grazing Woodland forest timeseries**





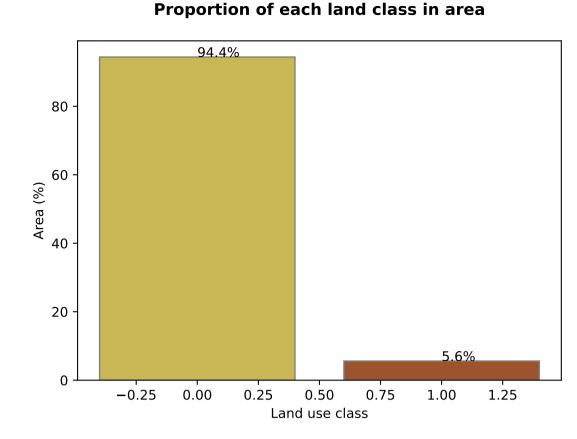


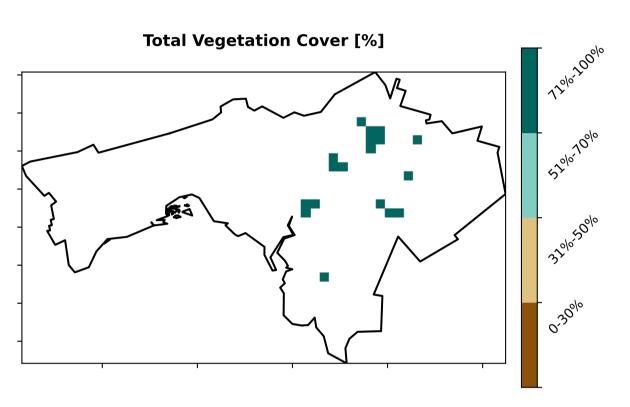


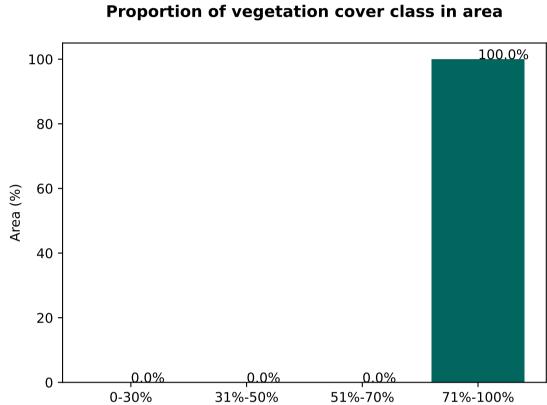


### **Irrigation**

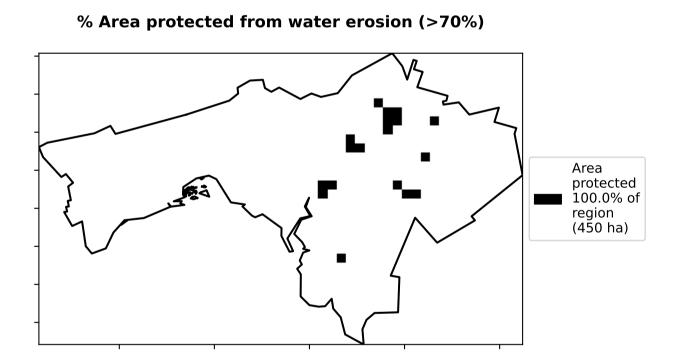
## Land use and forest cover Catchment Scale Land Use and Forests of Australia (2018) Derived from 1 Agriculture - Cropping - Irrigated Catchment Scale Lang 2 Agriculture - Horticulture - Irrigated Use of Australia (2018) and Forests of Australia (2018)

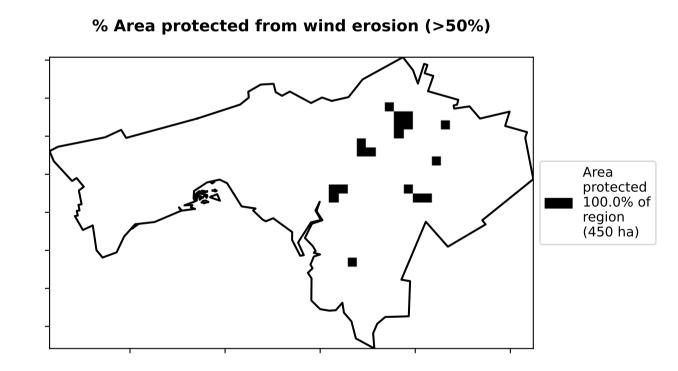


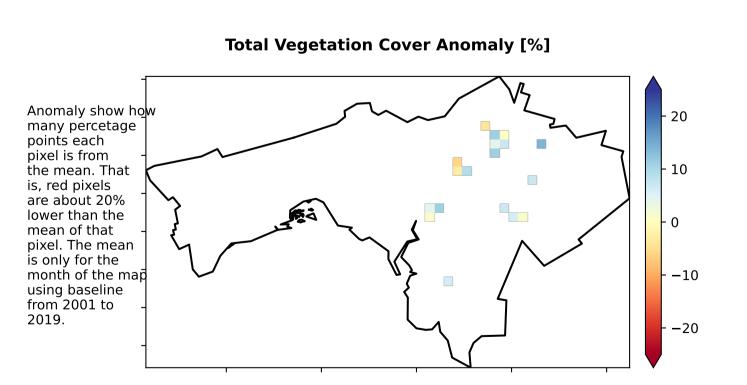




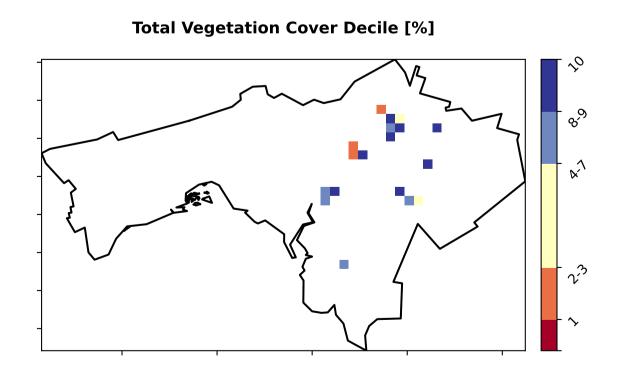
Total Vegetation Cover class







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 records for that month of the map using baseline from 2001 to 2019.





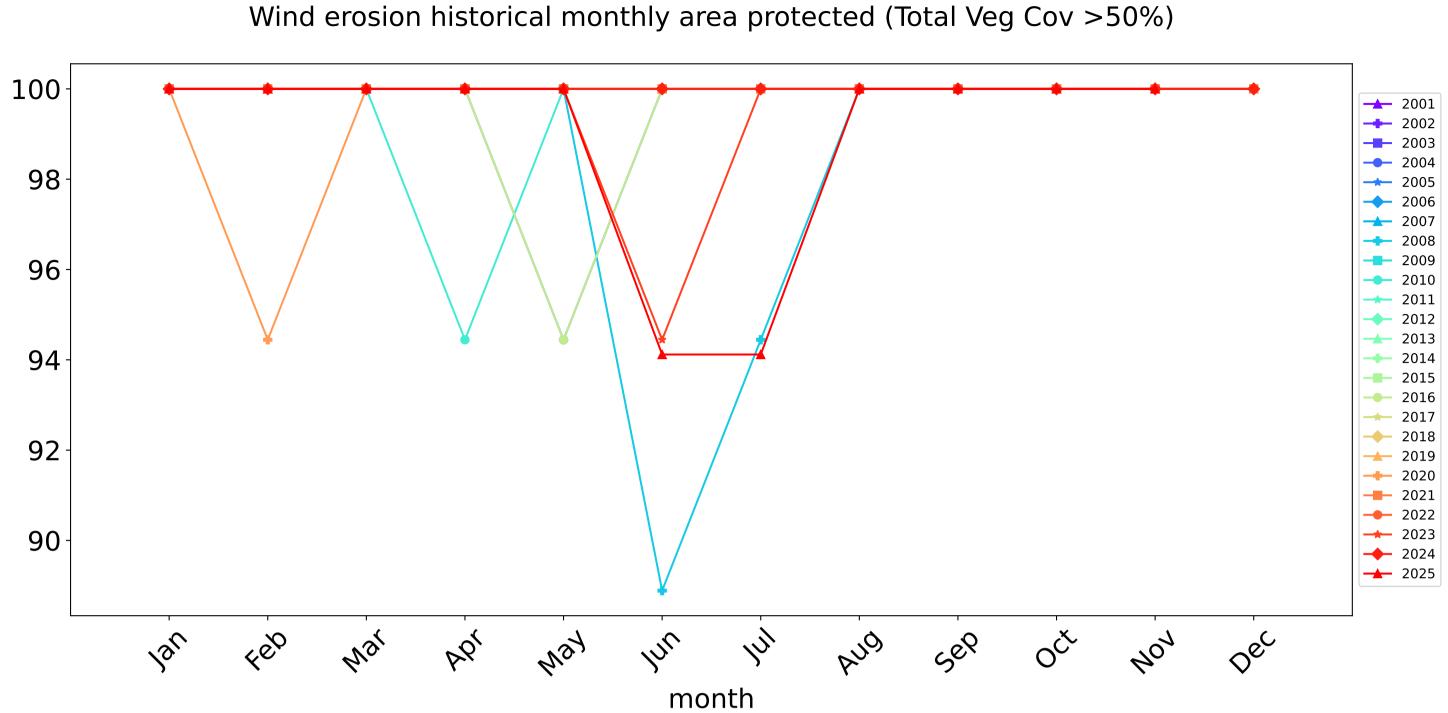


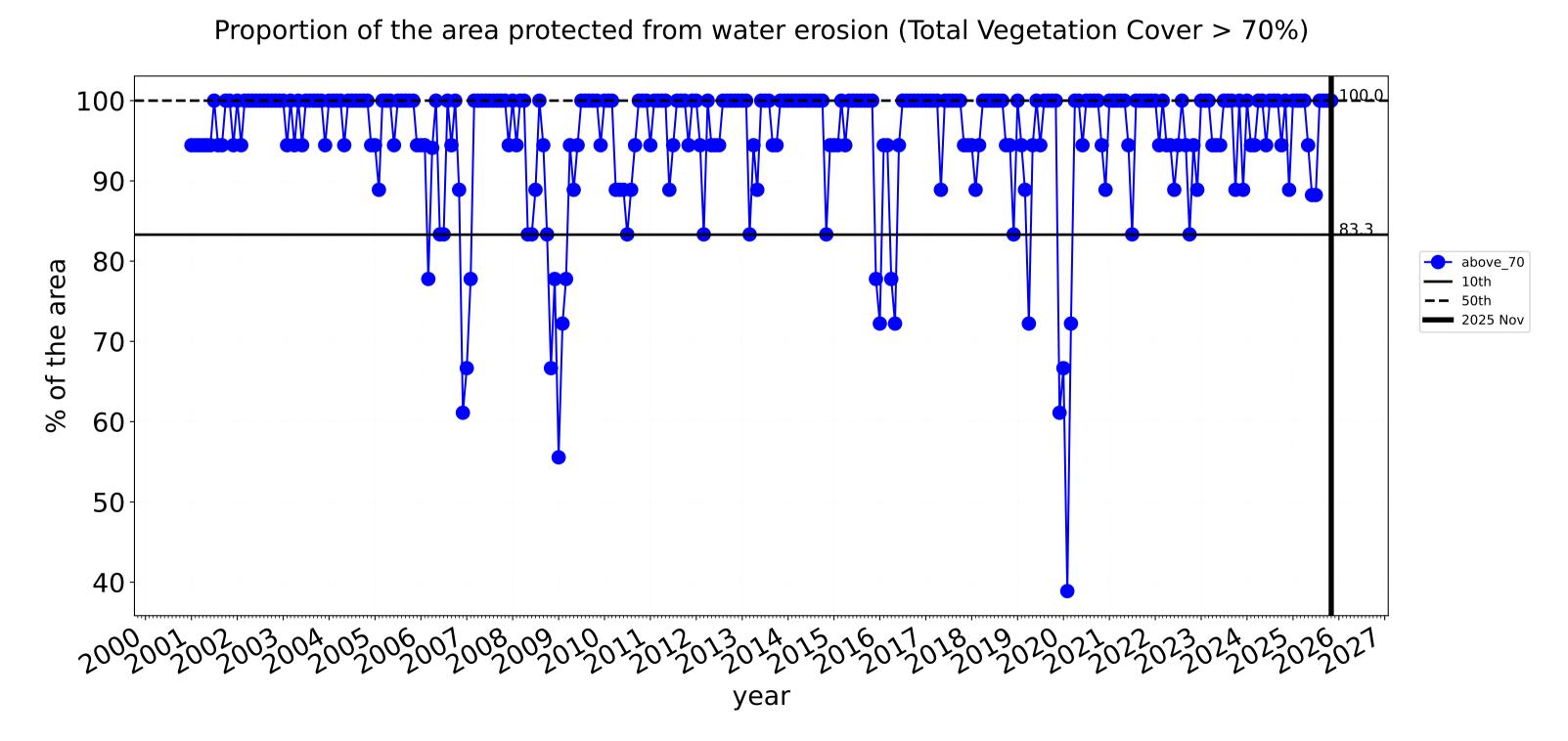


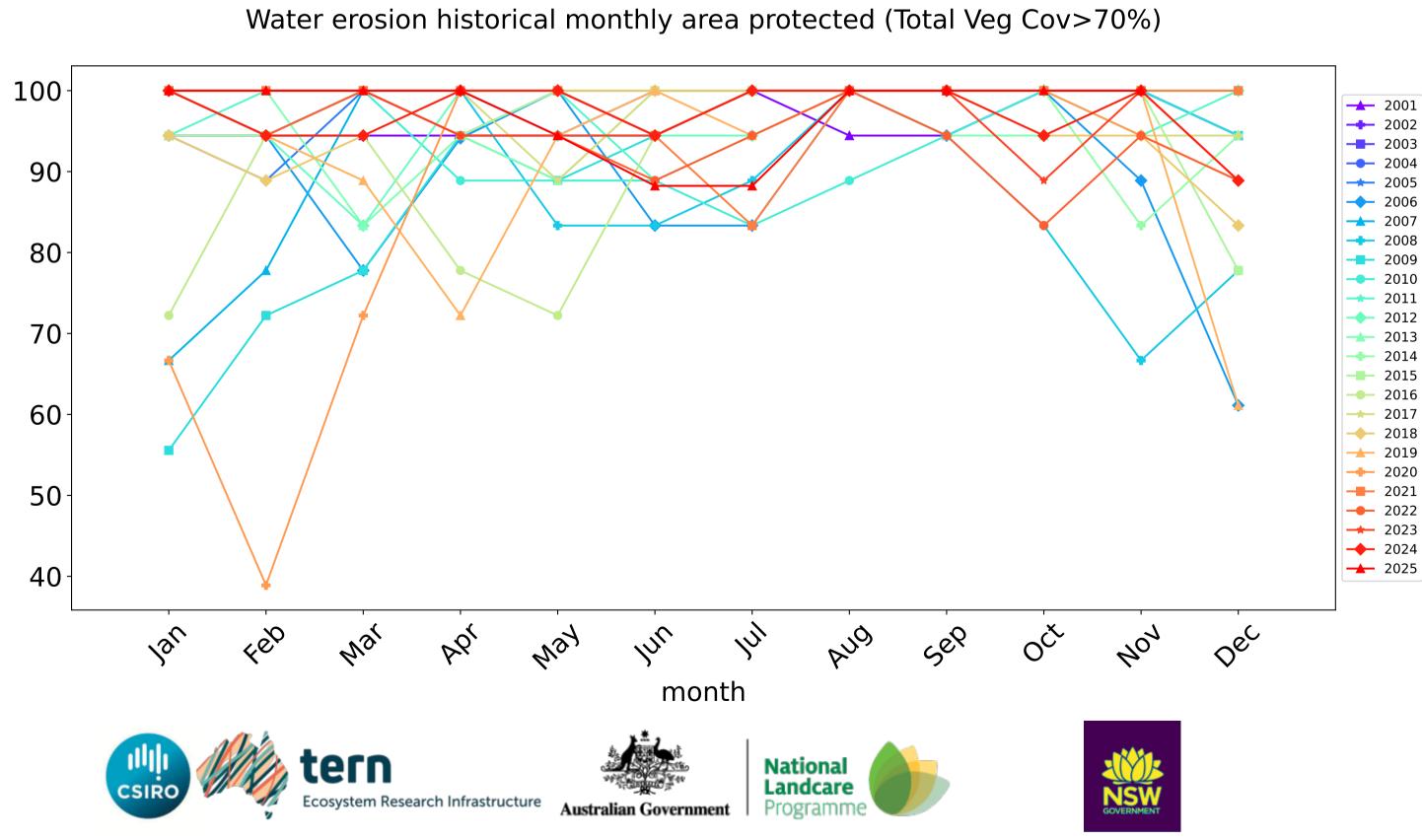


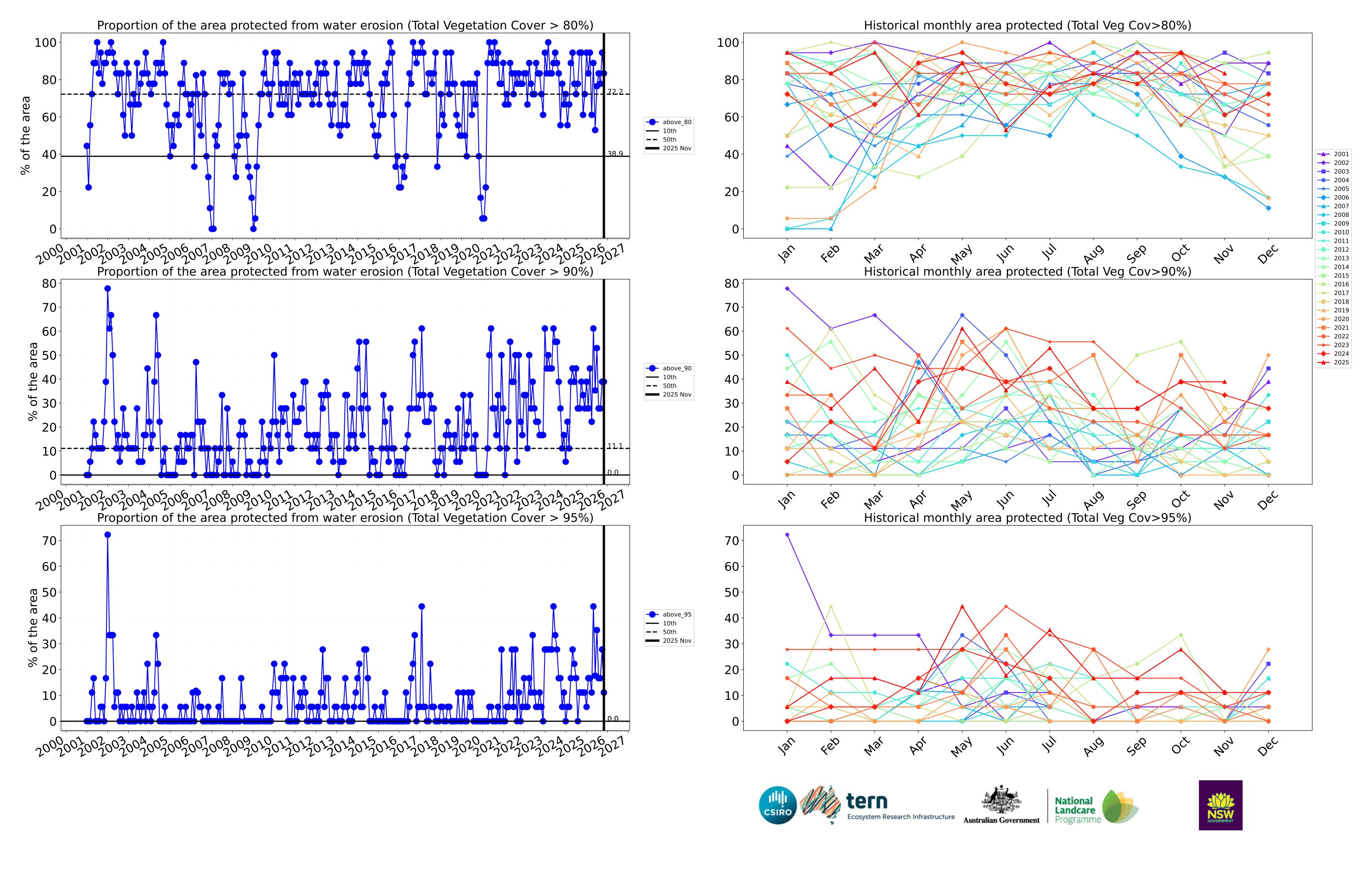


of the area









## Brighton\_(M) (16,825 ha and no data 290 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	16,825	100.0% 16,825	100.0% 16,825	97.6% 16,425	89.0% 14,975	53.3% 8,975	22.9% 3,850
Conservation and natural environments	2,800	100.0% 2,800	100.0% 2,800	100.0% 2,800	96.4% 2,700	71.4% 2,000	33.9% 950
Conservation and natural environments non forest	700	100.0% 700	100.0% 700	100.0% 700	96.4% 675	64.3% 450	21.4% 150
Conservation and natural environments Woodland forest	2,025	100.0% 2,025	100.0% 2,025	100.0% 2,025	96.3% 1,950	72.8% 1,475	37.0% 750
Agriculture	7,050	100.0% 7,050	100.0% 7,050	99.3% 7,000	92.6% 6,525	54.3% 3,825	24.8% 1,750
Grazing	6,450	100.0% 6,450	100.0% 6,450	99.2% 6,400	93.8% 6,050	56.2% 3,625	26.4% 1,700
Grazing non forest	6,100	100.0% 6,100	100.0% 6,100	99.2% 6,050	93.4% 5,700	54.9% 3,350	25.0% 1,525
Grazing Woodland forest	325	100.0% 325	100.0% 325	100.0% 325	100.0% 325	84.6% 275	53.8% 175
Irrigation	450	100.0% 450	100.0% 450	100.0% 450	83.3% 375	38.9% 175	11.1% 50







