### Total vegetation cover soil protection Region:LGA Menzies\_(S) WA

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:

**Date: November 2025** 

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



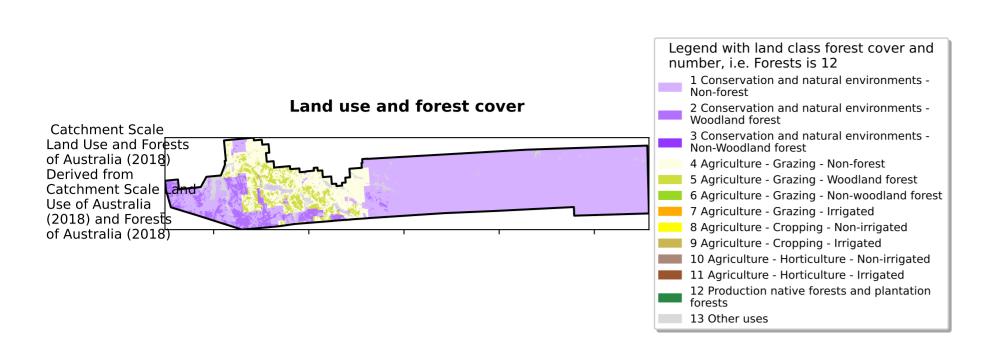


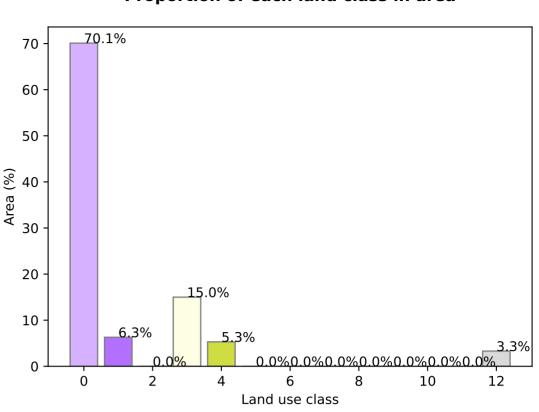




### **Vegetation Cover Nov 2025**

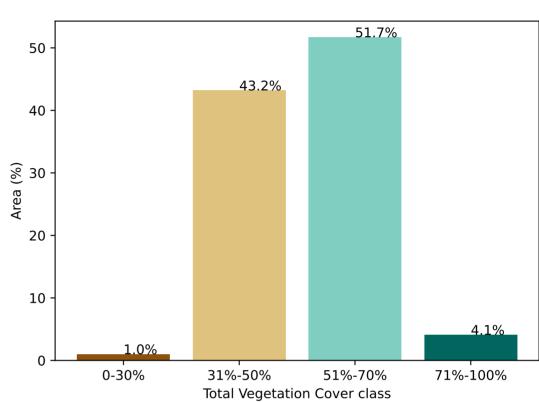
### Proportion of each land class in area

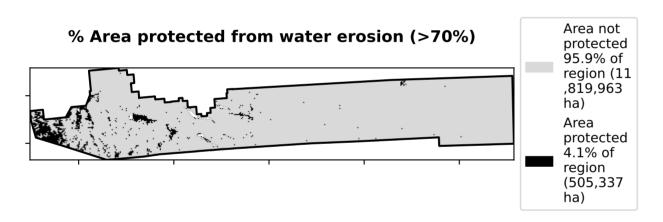


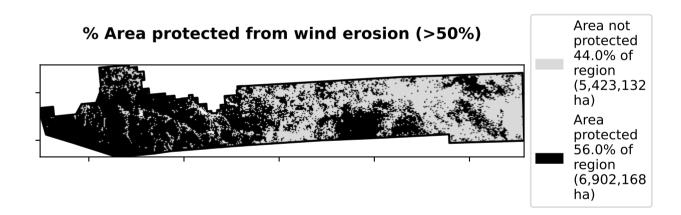


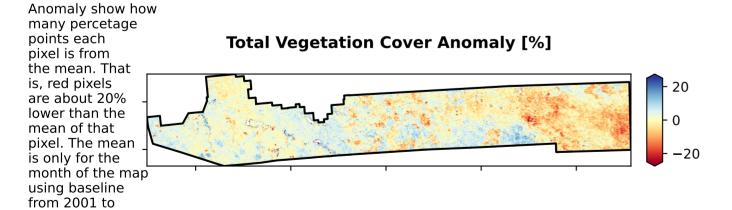
## 

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

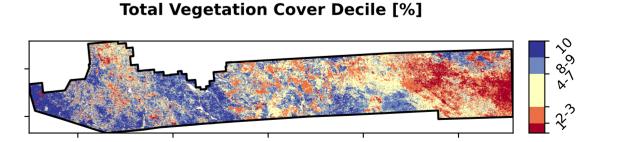








2019.

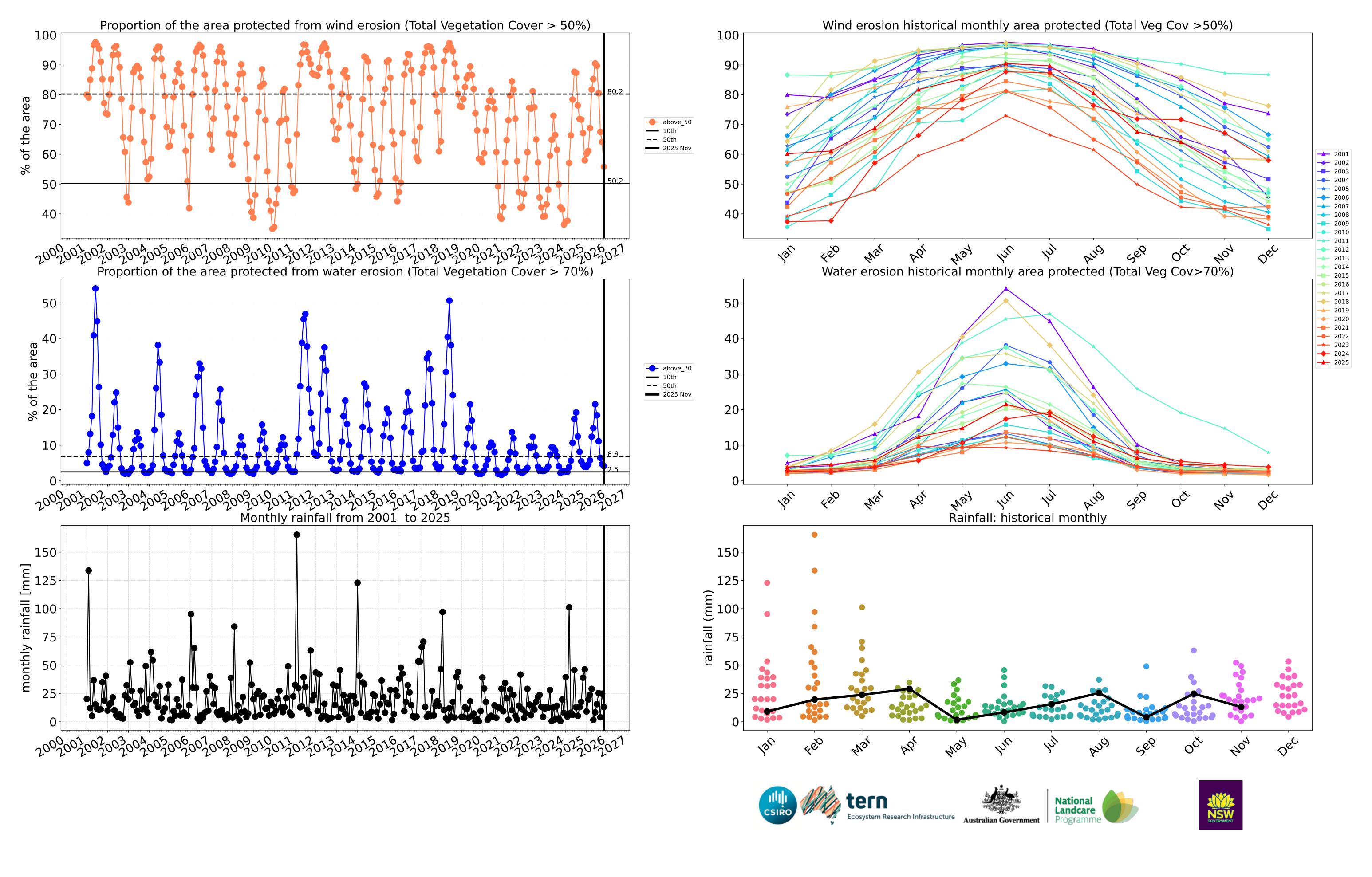






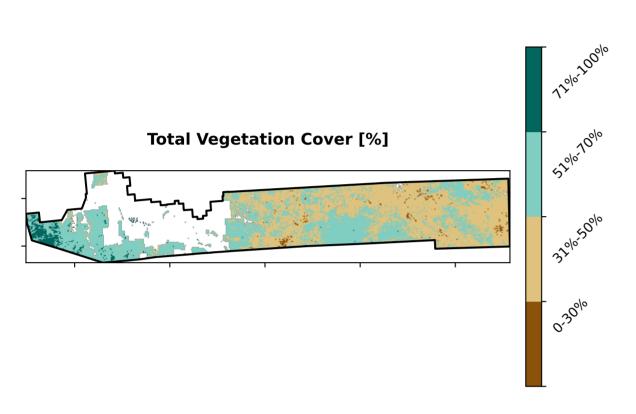


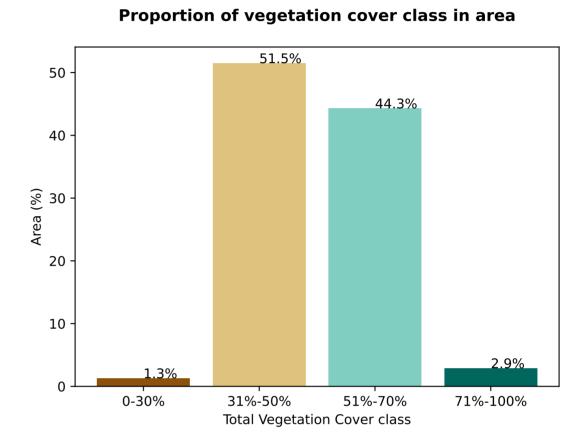




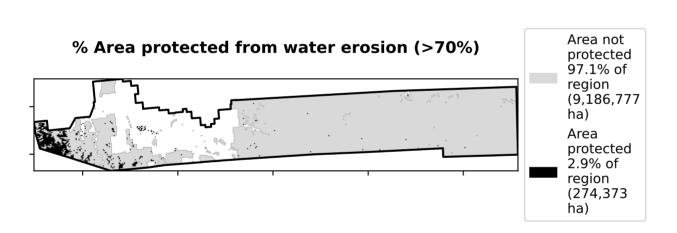
### **Conservation and natural environments**

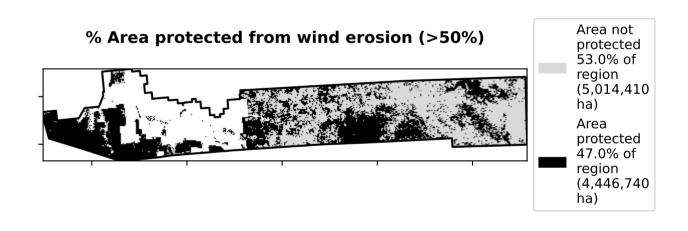
### 91.8% Land use and forest cover Catchment Scale Land Use and Forests of Australia (2018) Derived from 60 1 Conservation and natural environments - Nonforest 2 Conservation and natural environments - Woodland forest Catchment Scale Lanc Use of Australia (2018) and Forests of Australia (2018) 20 8.2% 0.25 0.50 0.75 1.00 -0.250.00 1.25 Land use class

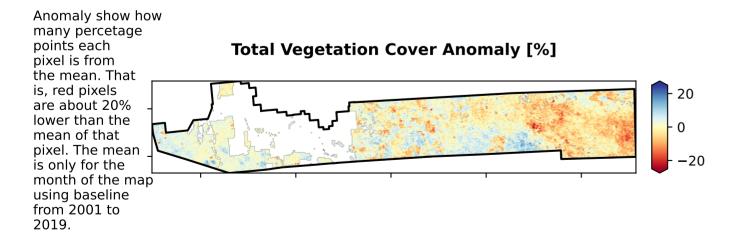




Proportion of each land class in area







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 [%]

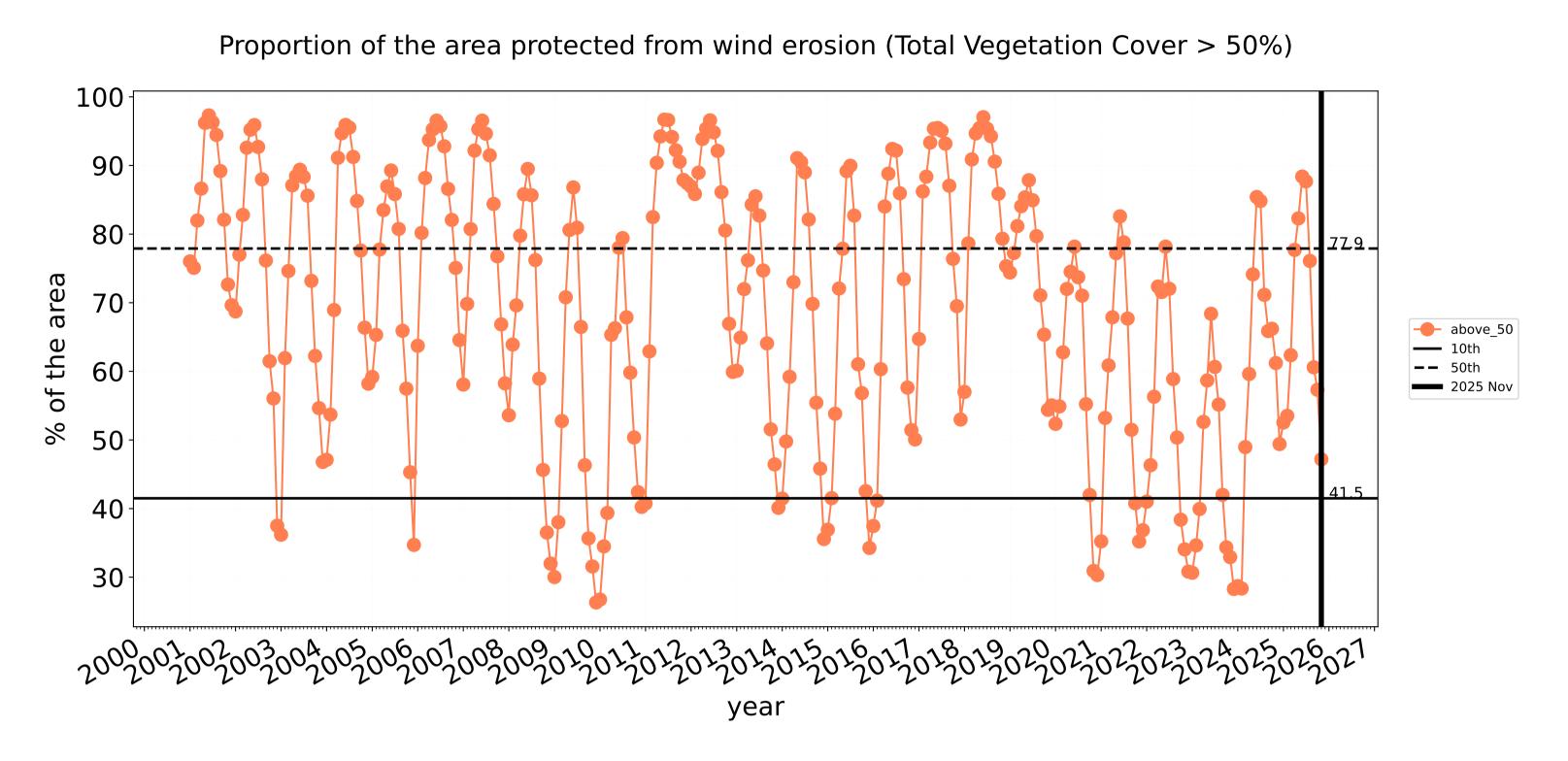


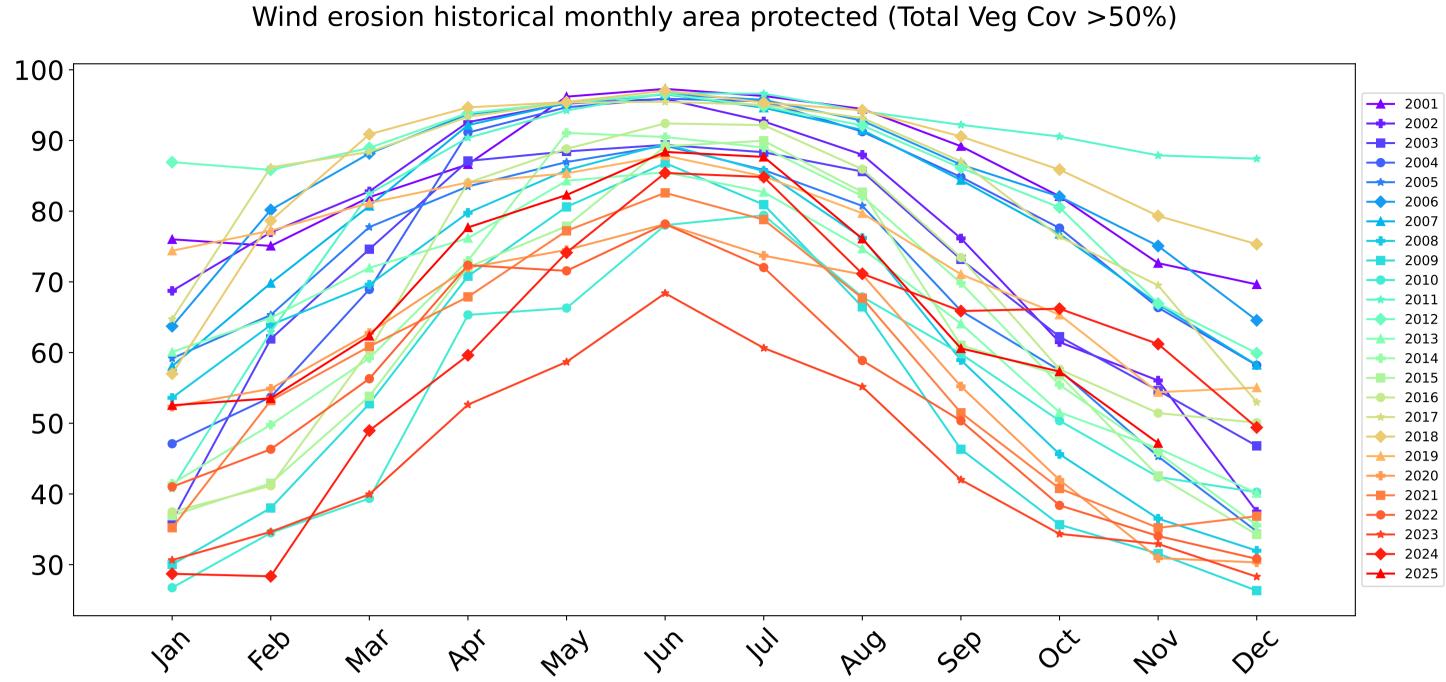


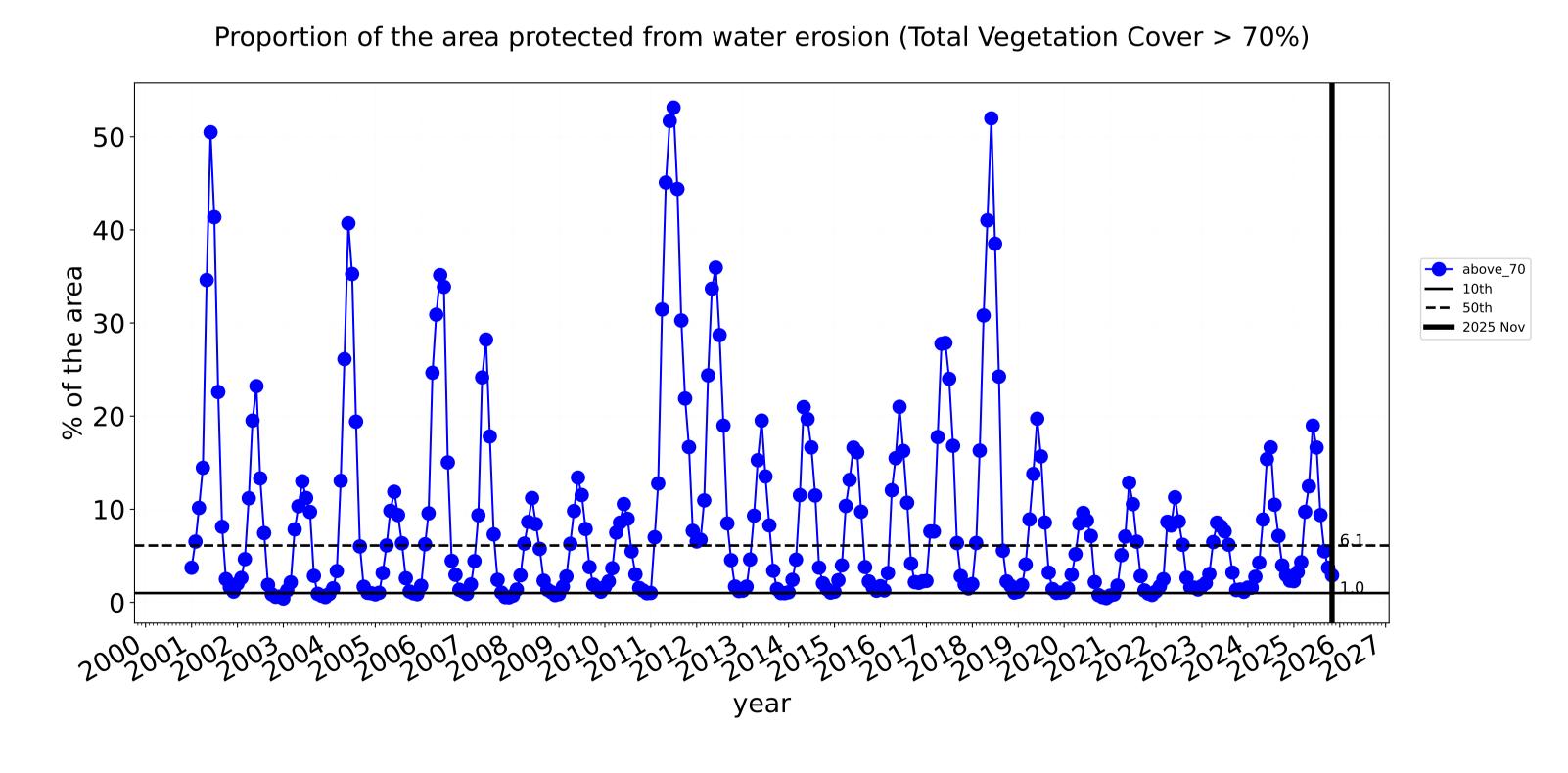


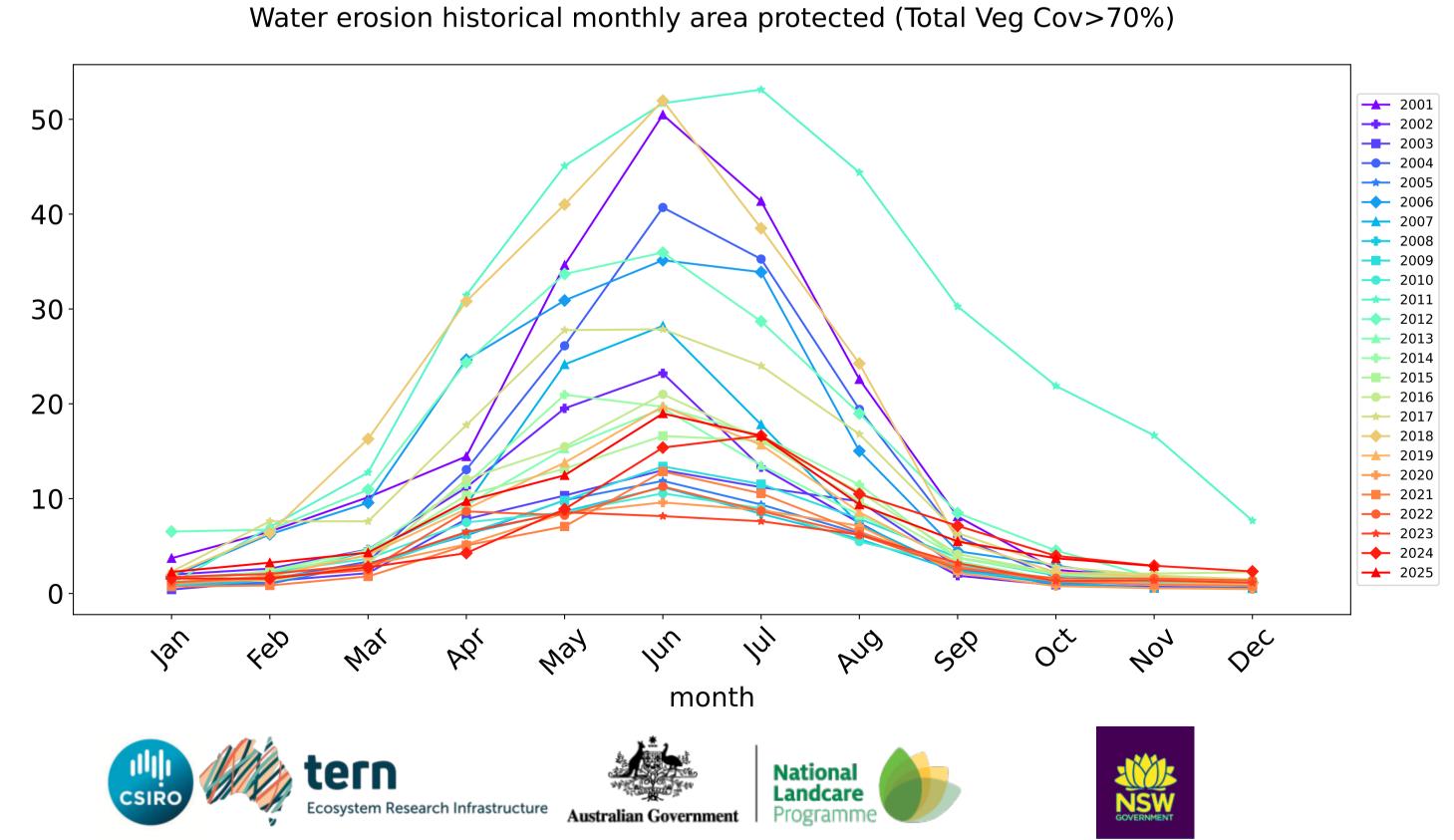


### **Conservation and natural environments timeseries**



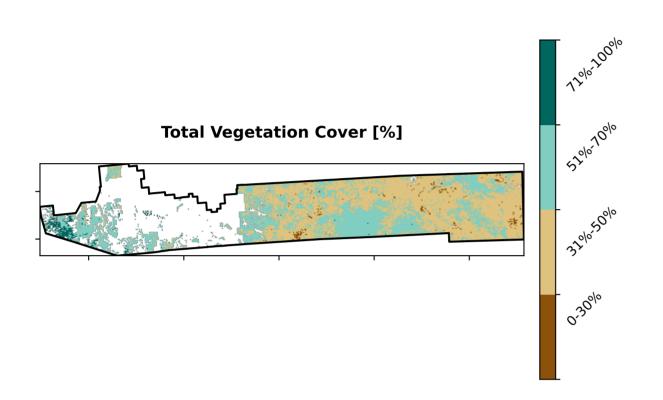




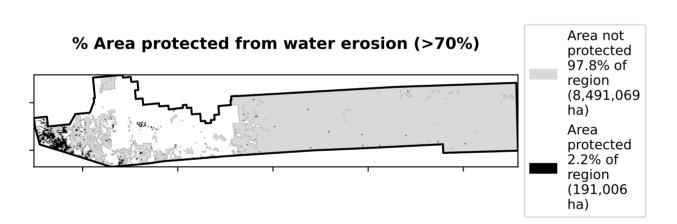


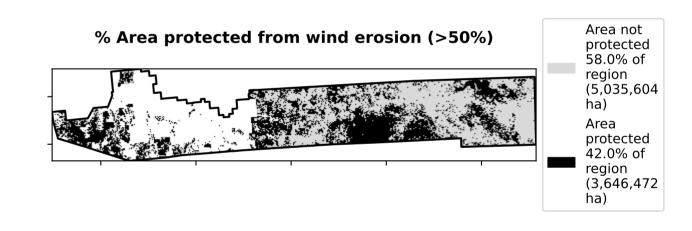
### **Conservation and natural environments non forest**

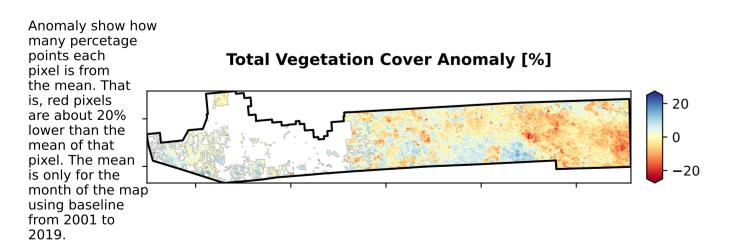
## Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Use of Australia (2018) and Forests of Australia (2018)



# Proportion of vegetation cover class in area 50404020100-30% 31%-50% 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 the map using baseline from 2001 to 2019.

### Total Vegetation Cover Decile [%]

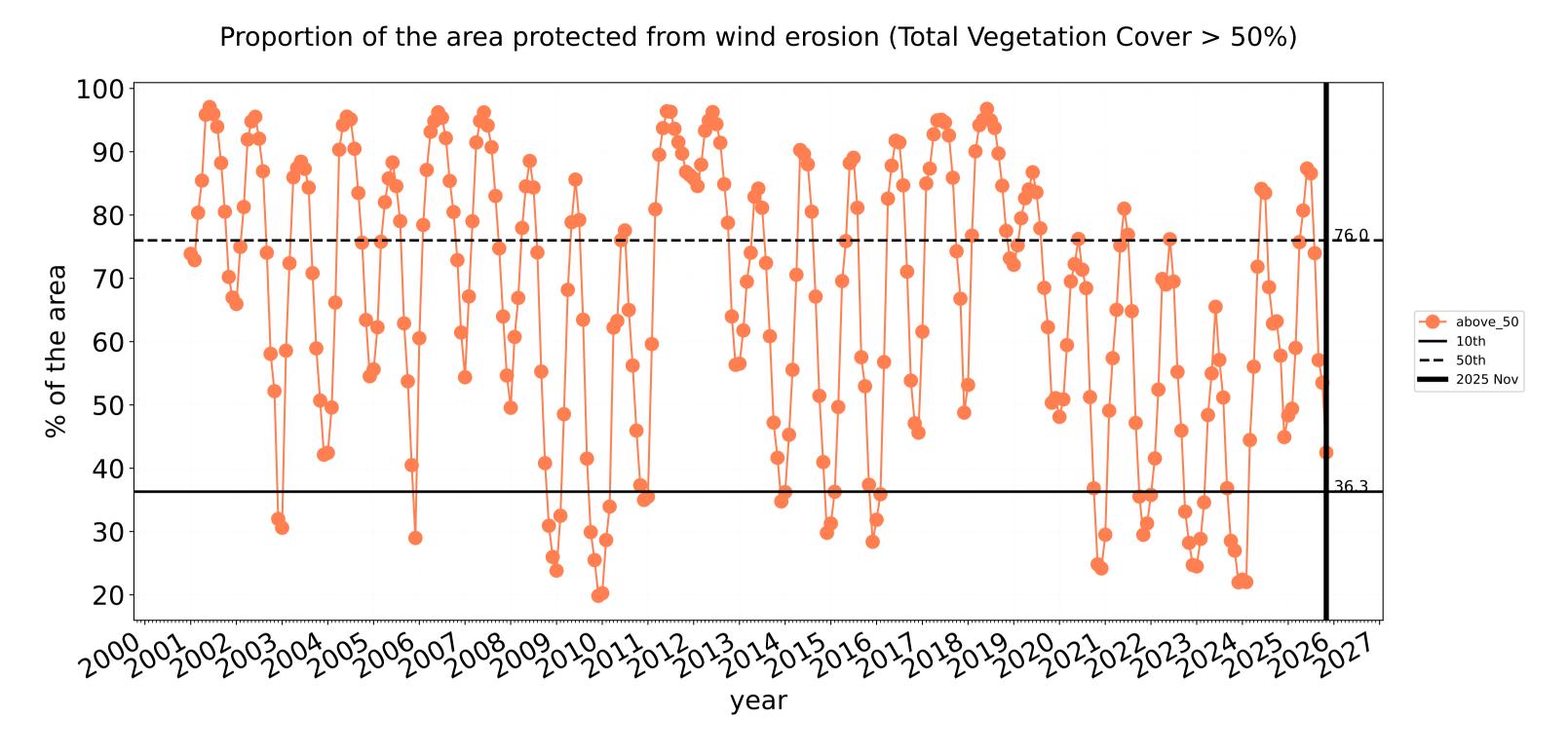


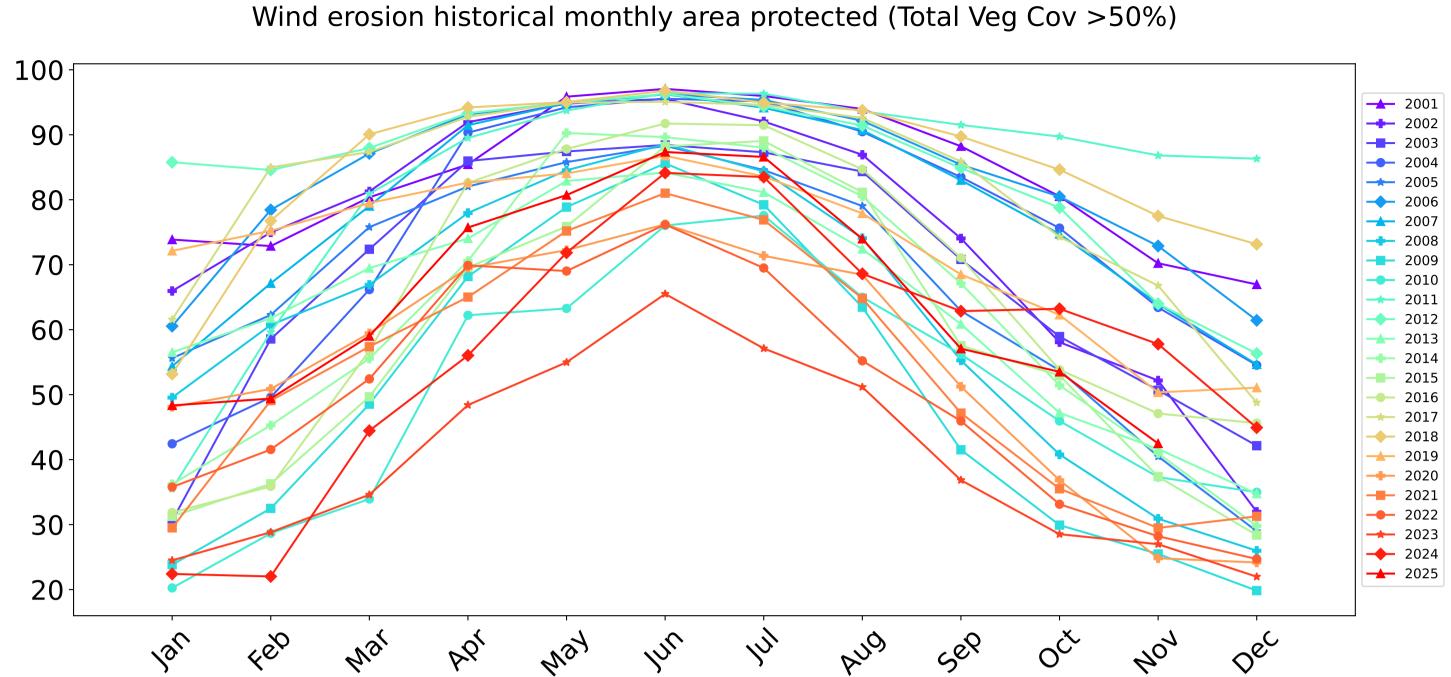






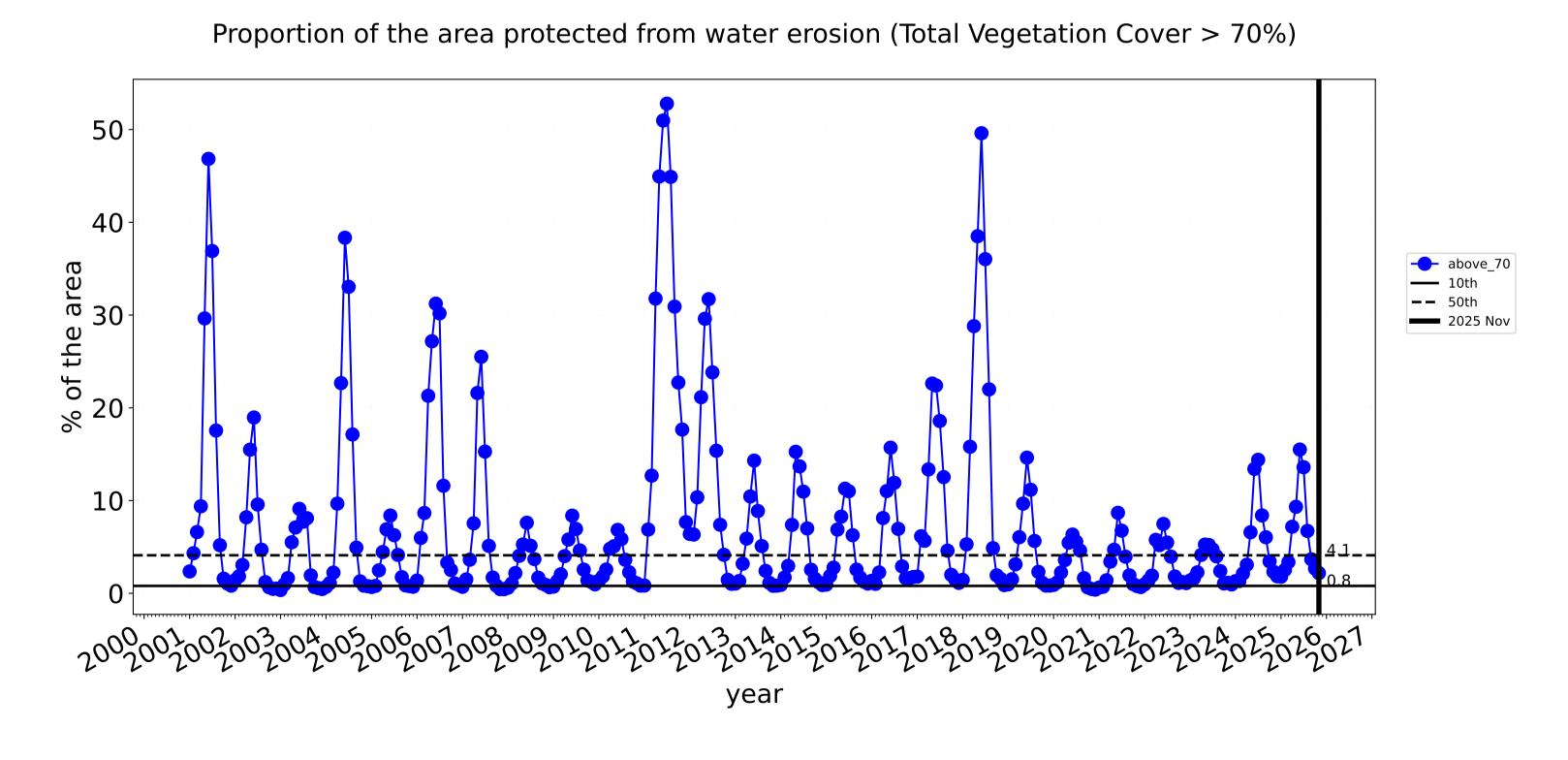
### **Conservation and natural environments non forest timeseries**

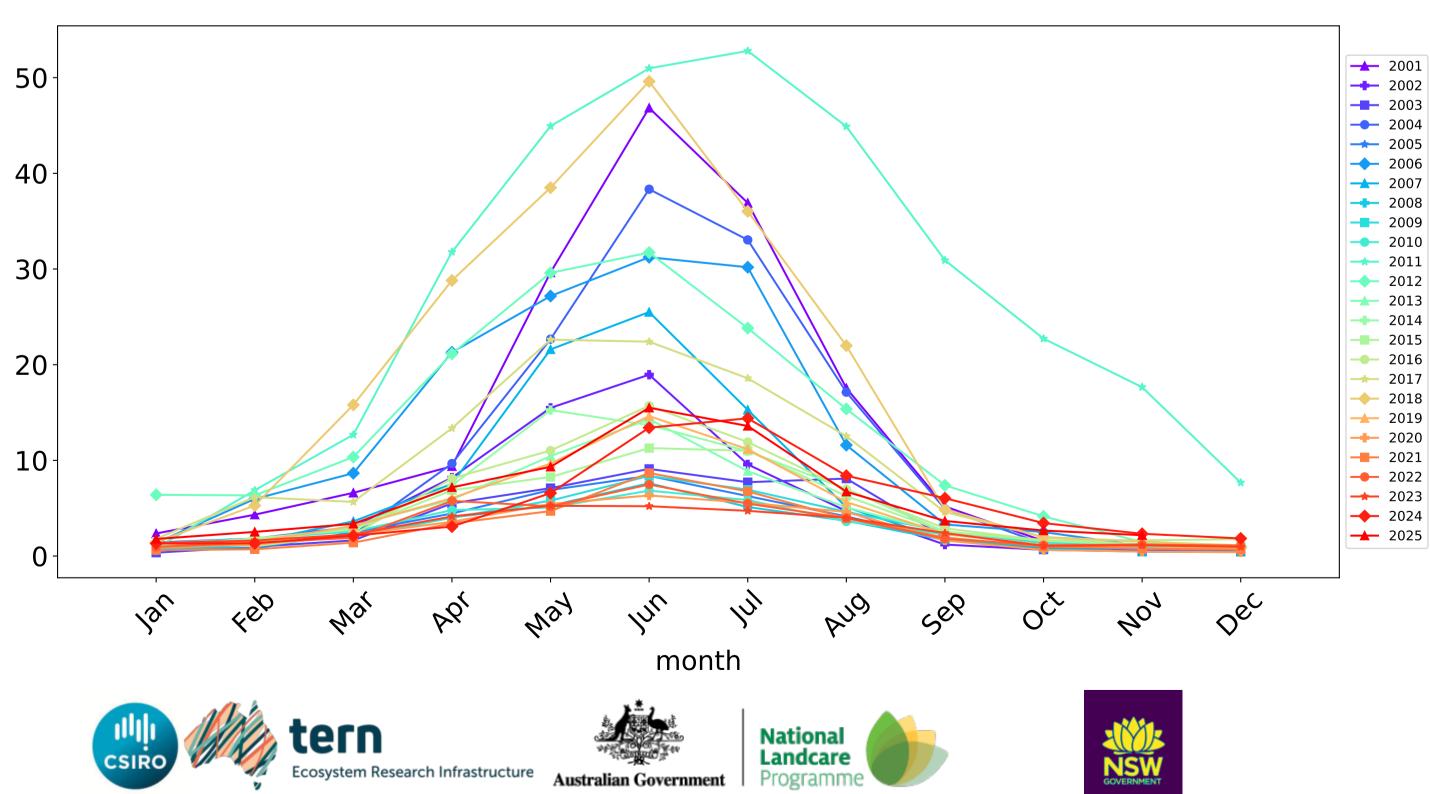




month

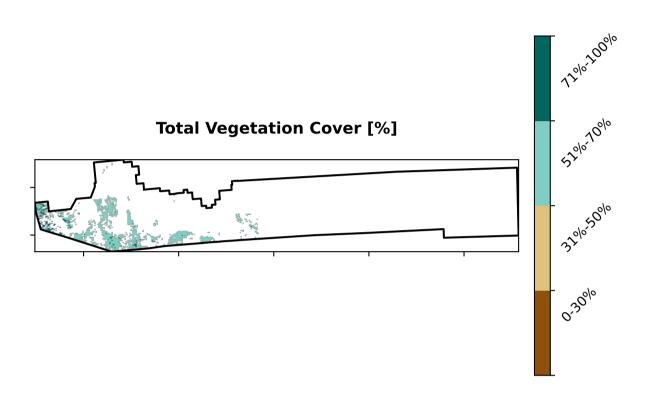
Water erosion historical monthly area protected (Total Veg Cov>70%)



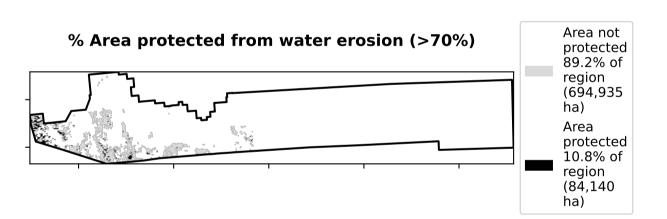


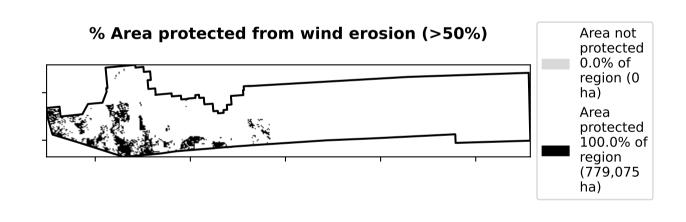
### **Conservation and natural environments Woodland forest**

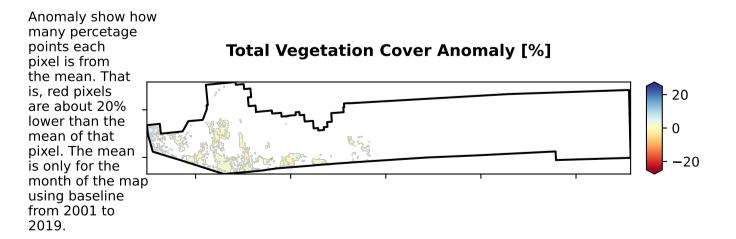
### Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Use of Australia (2018) of Australia (2018)

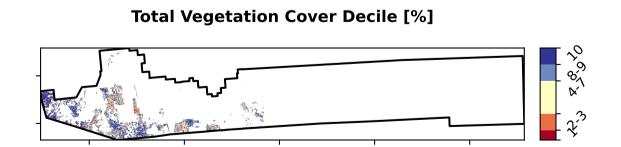


# 80 - 88.7% 60 - 89 40 - 20 - 0.30% 31%-50% 51%-70% 71%-100% Total Vegetation Cover class









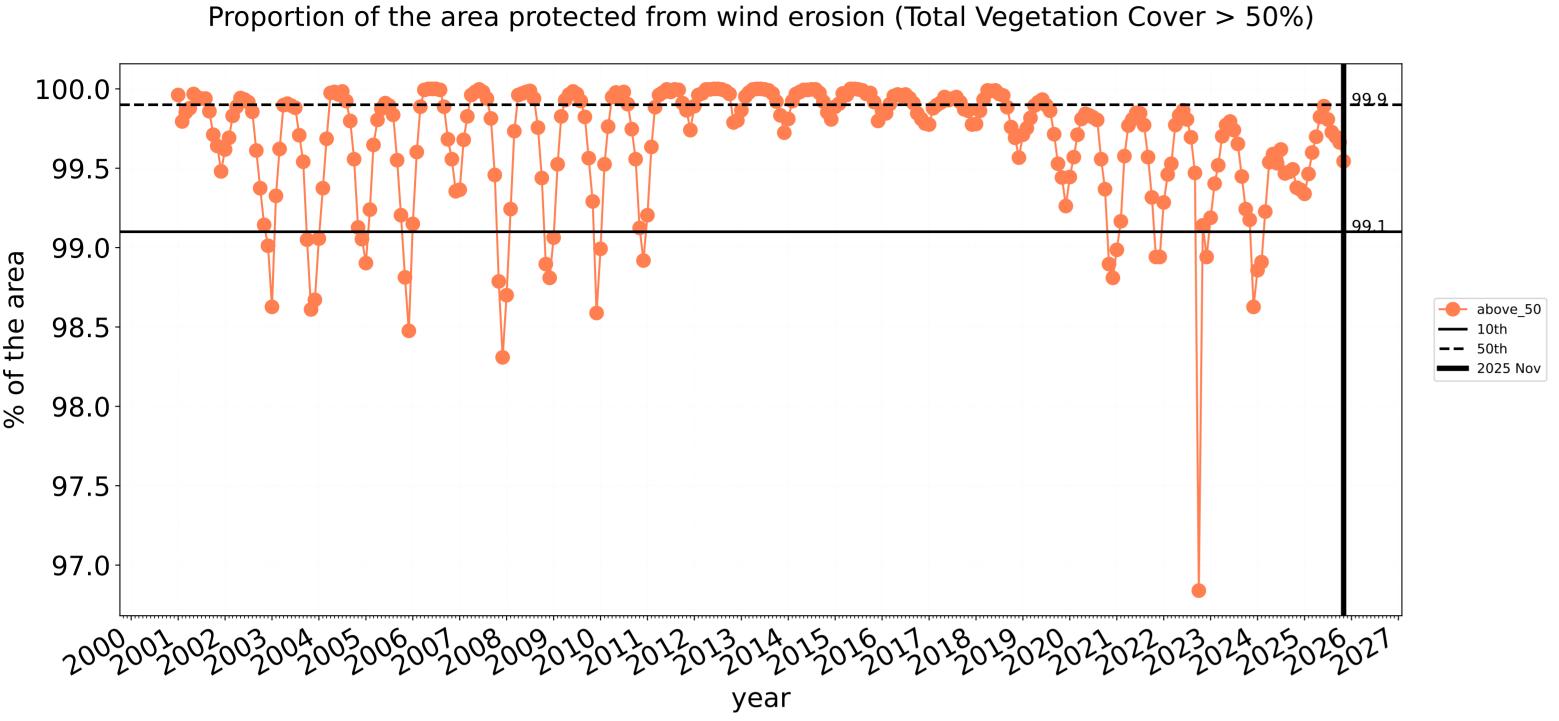


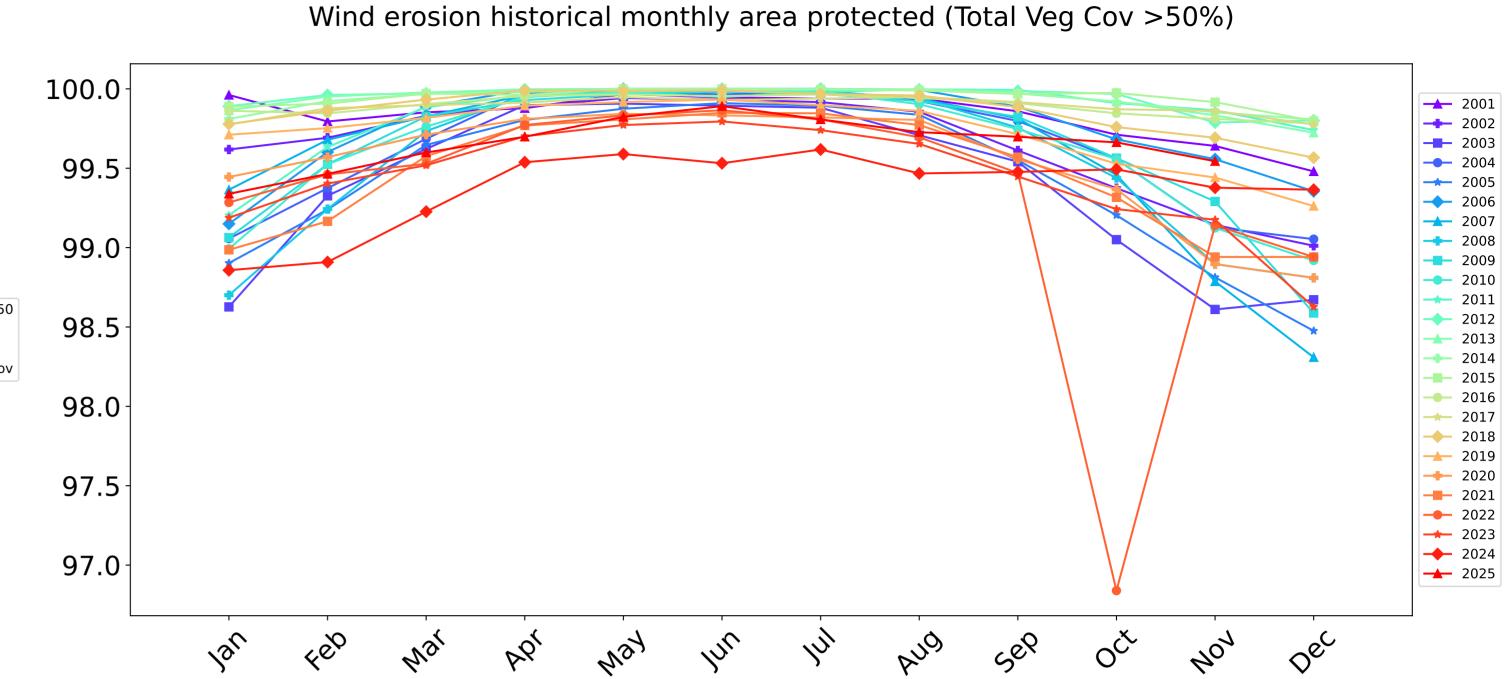


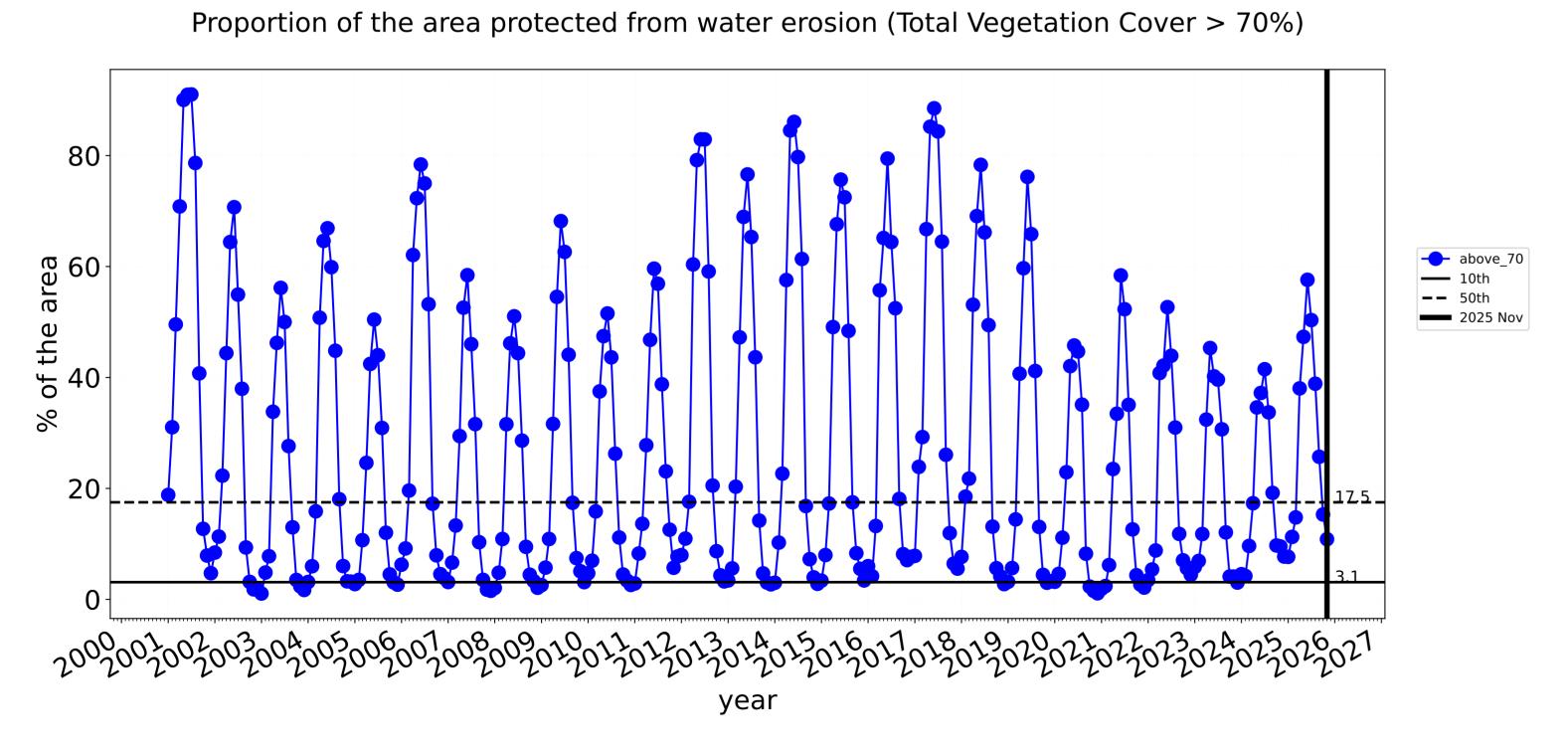


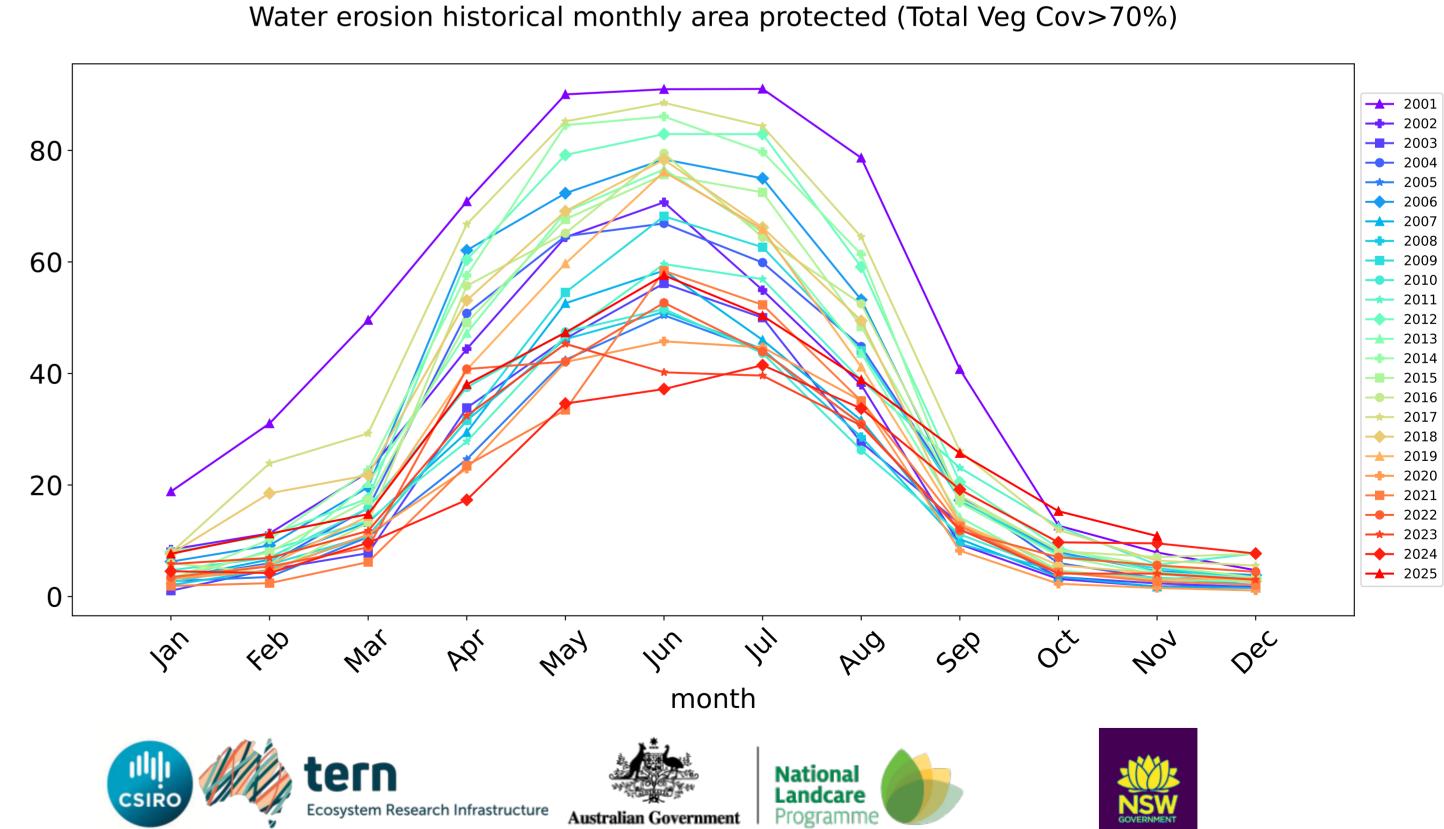


### **Conservation and natural environments Woodland forest timeseries**









### **Agriculture**

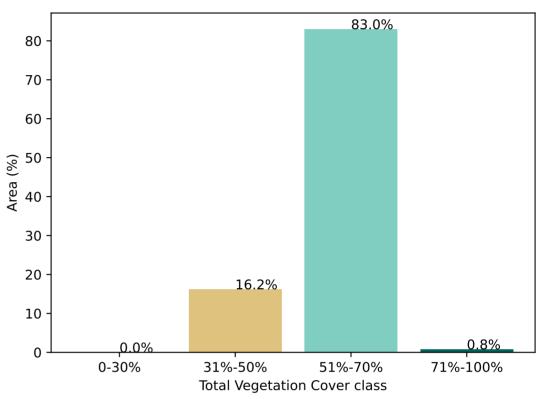
## Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Use of Australia (2018) and Forests of Australia (2018)

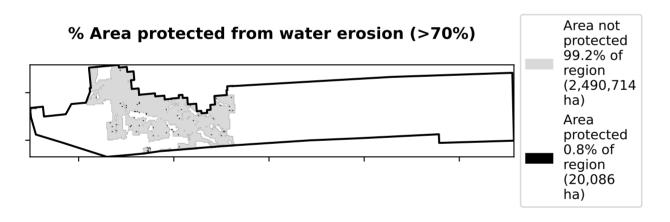
### 73.9% 70 60 50 Area (%) 40 30 26.1% 20 10 0.00 0.25 0.50 0.75 1.25 -0.251.00 Land use class

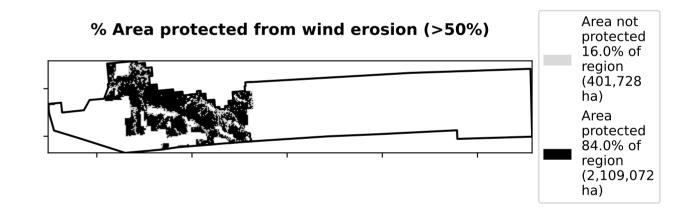
Proportion of each land class in area

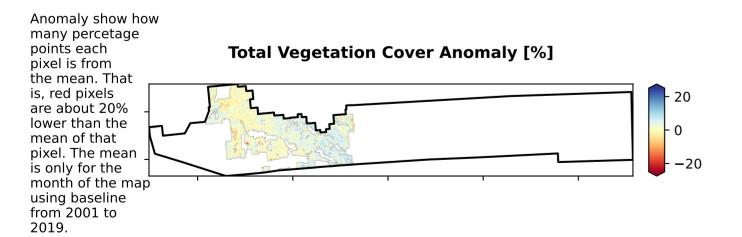
## 

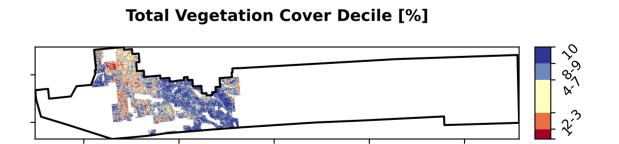












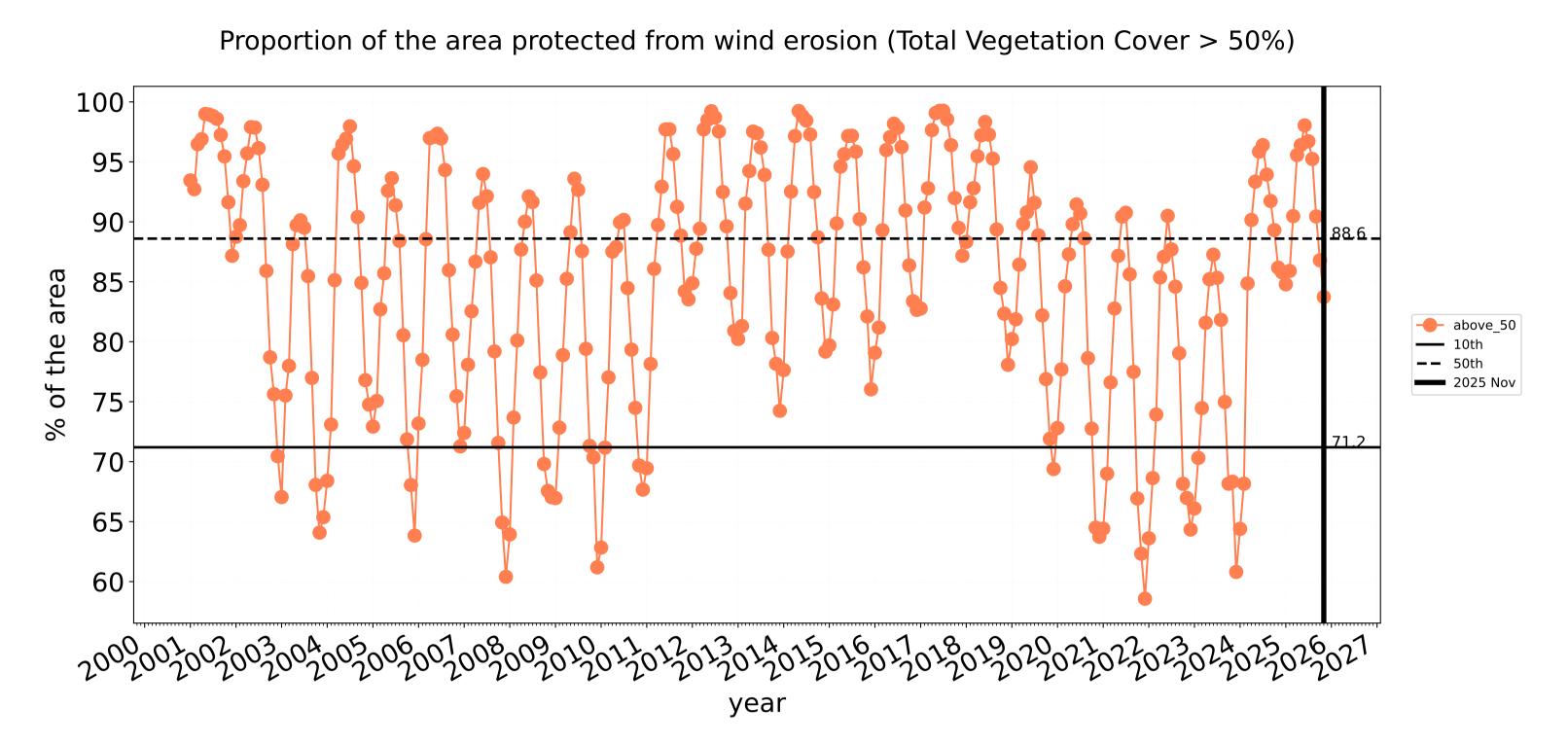


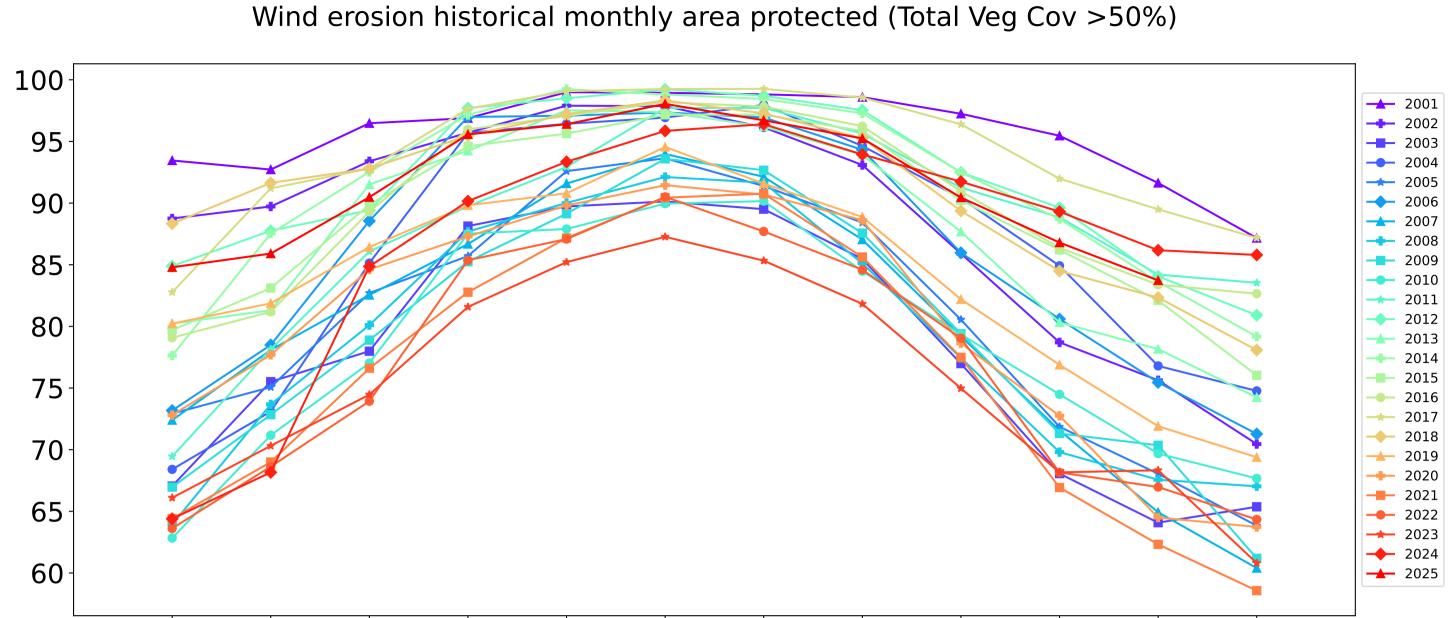


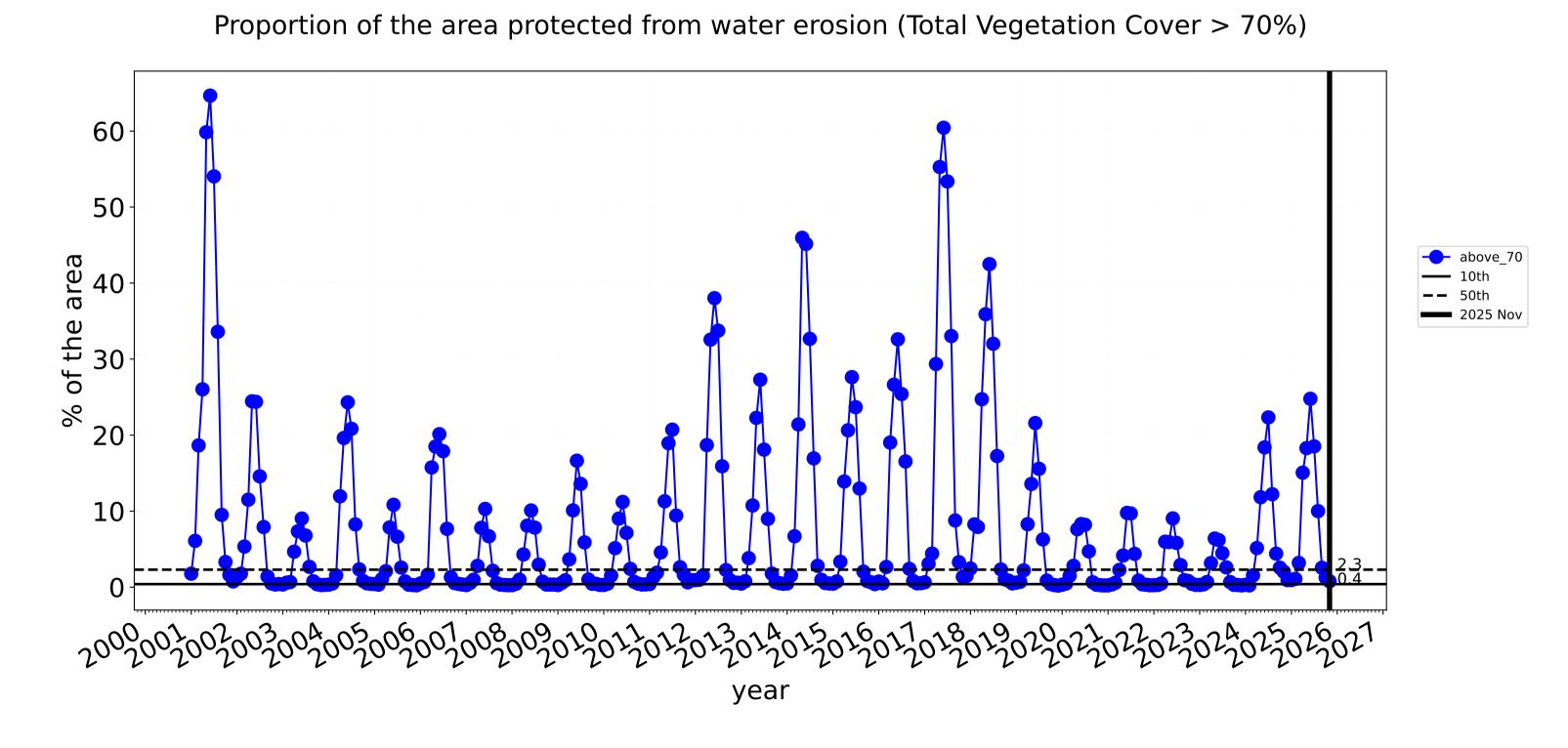


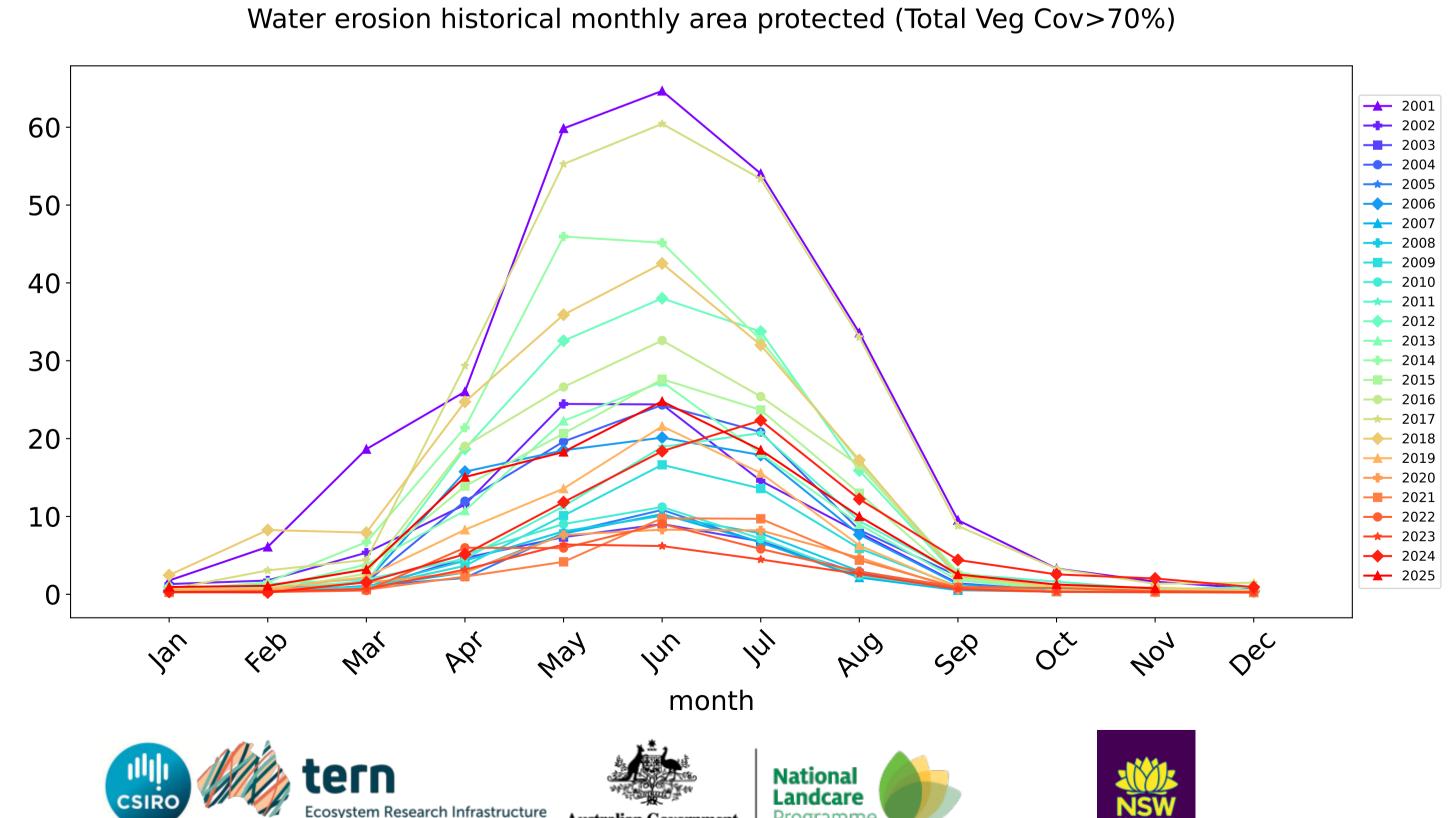


### **Agriculture timeseries**









### **Grazing**

## Land use and forest cover Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Use of Australia (2018) and Forests of Australia (2018)

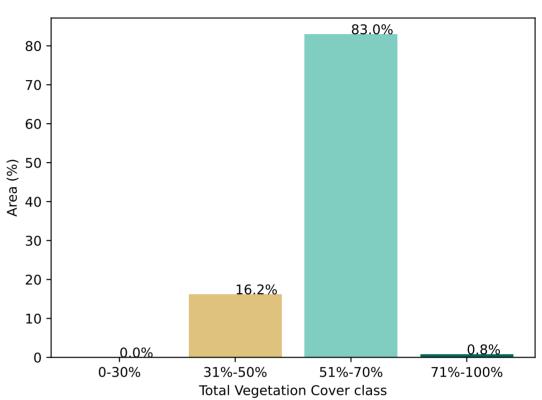
### 73.9% 70 60 50 Area (%) 40 30 26.1% 20 10 0.00 0.25 0.50 0.75 1.25 -0.251.00

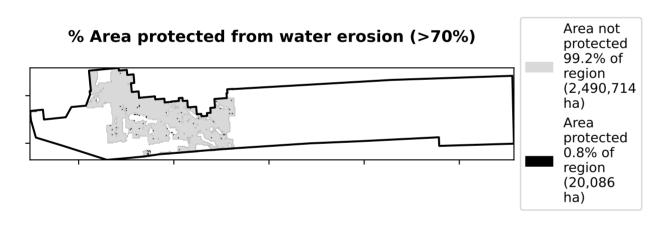
Proportion of each land class in area

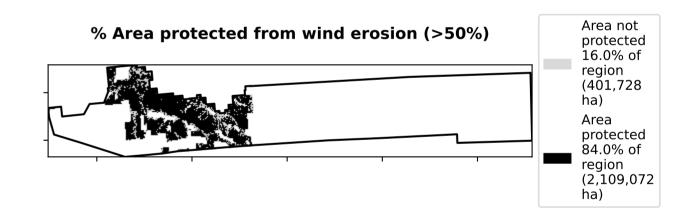
## 

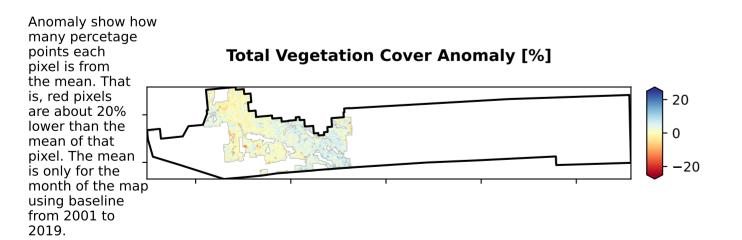


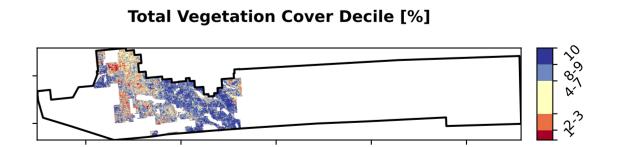
Land use class











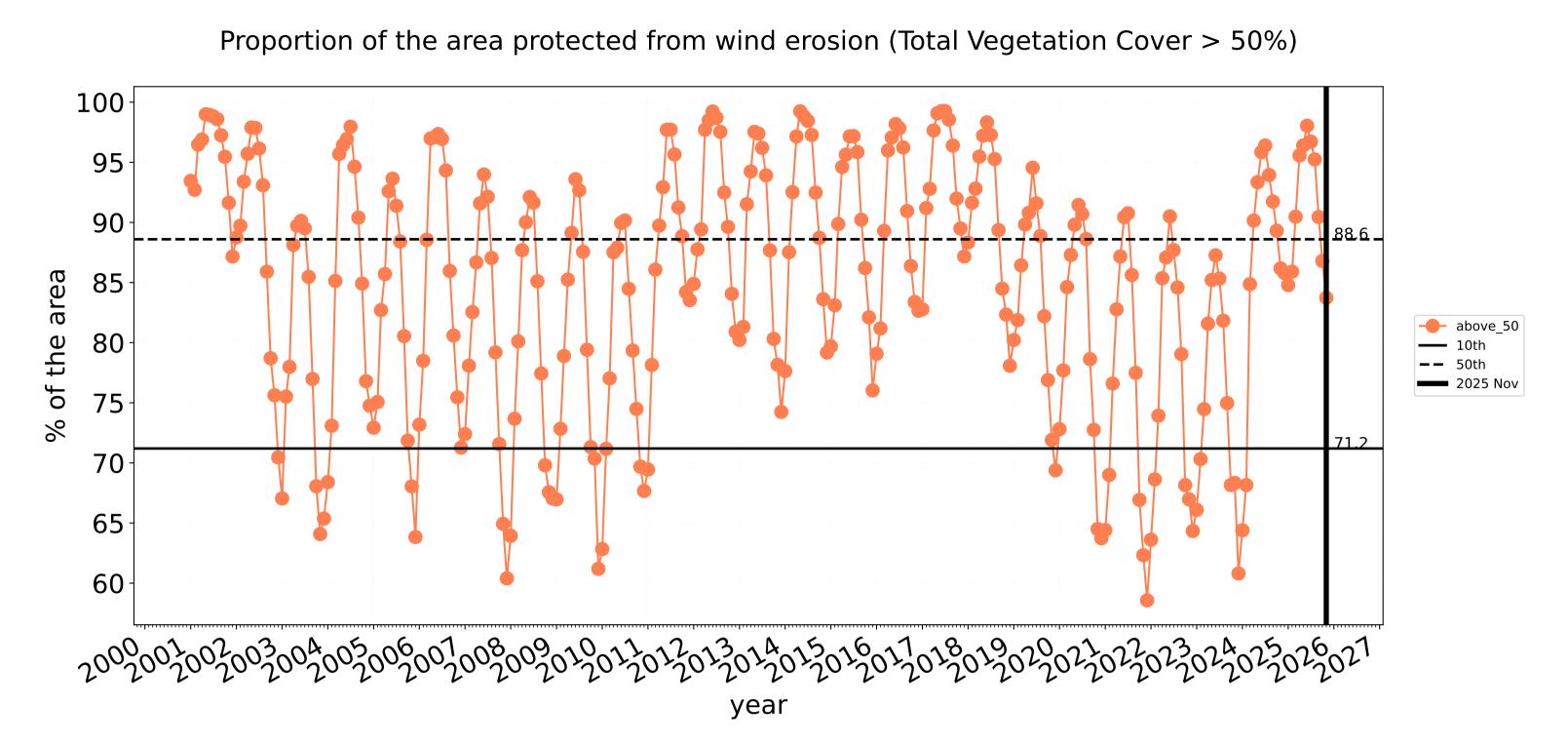


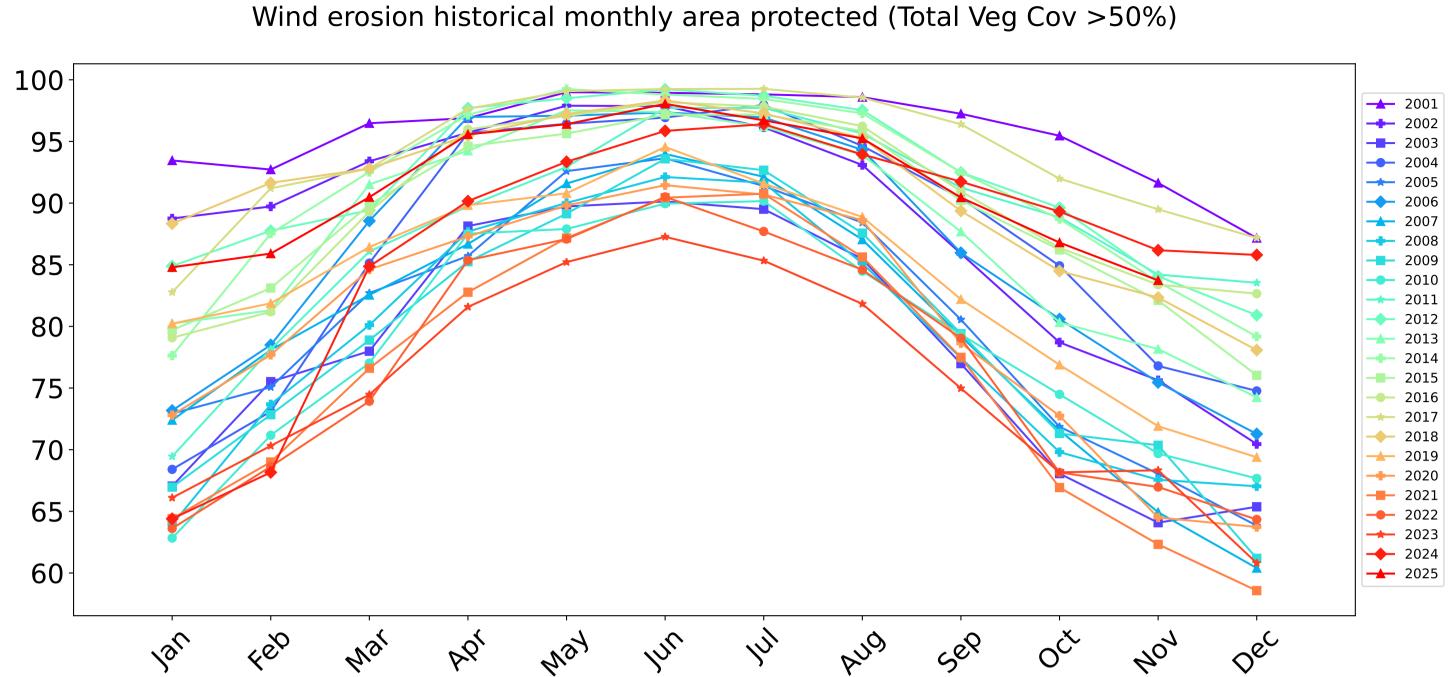


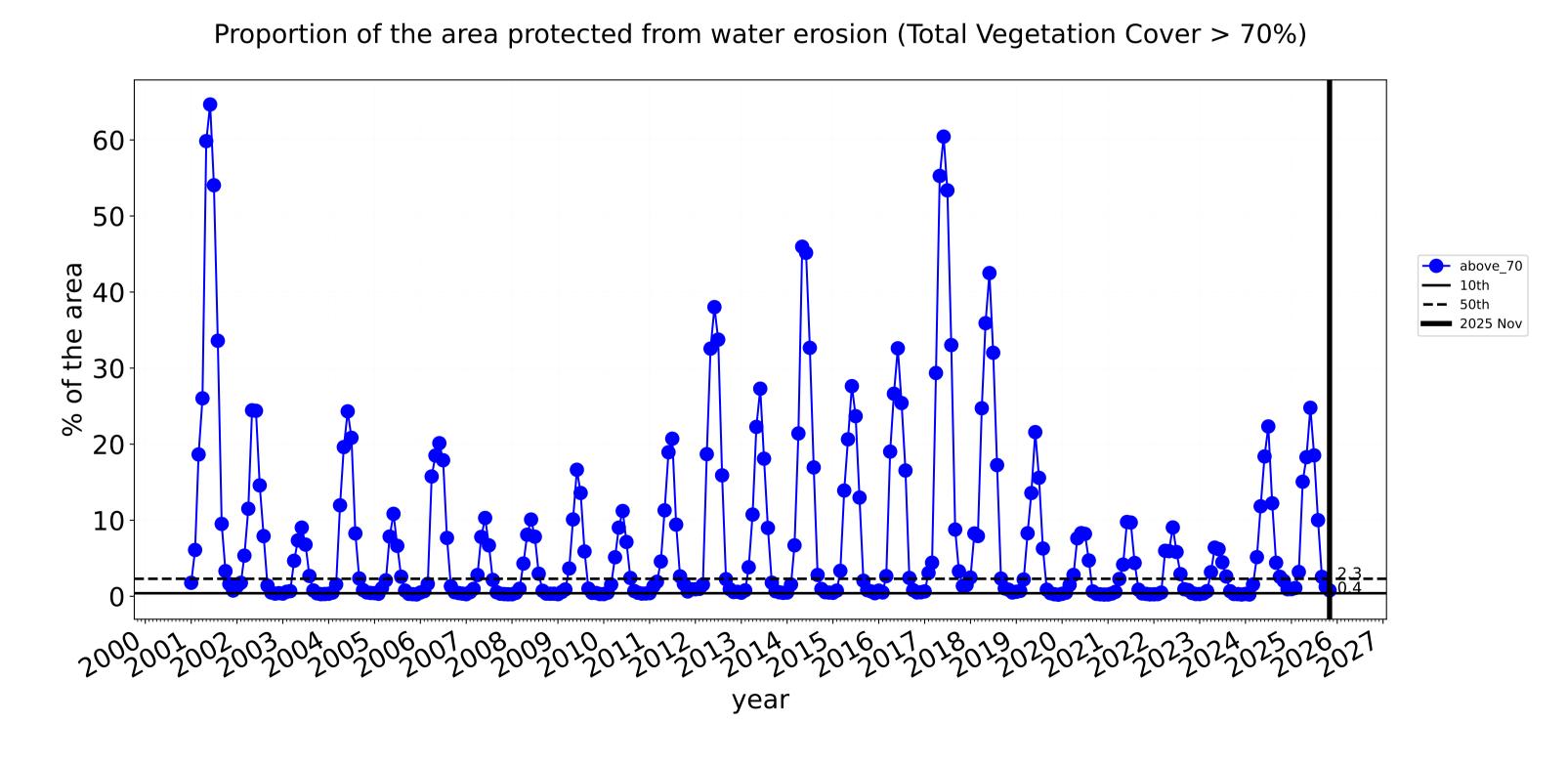


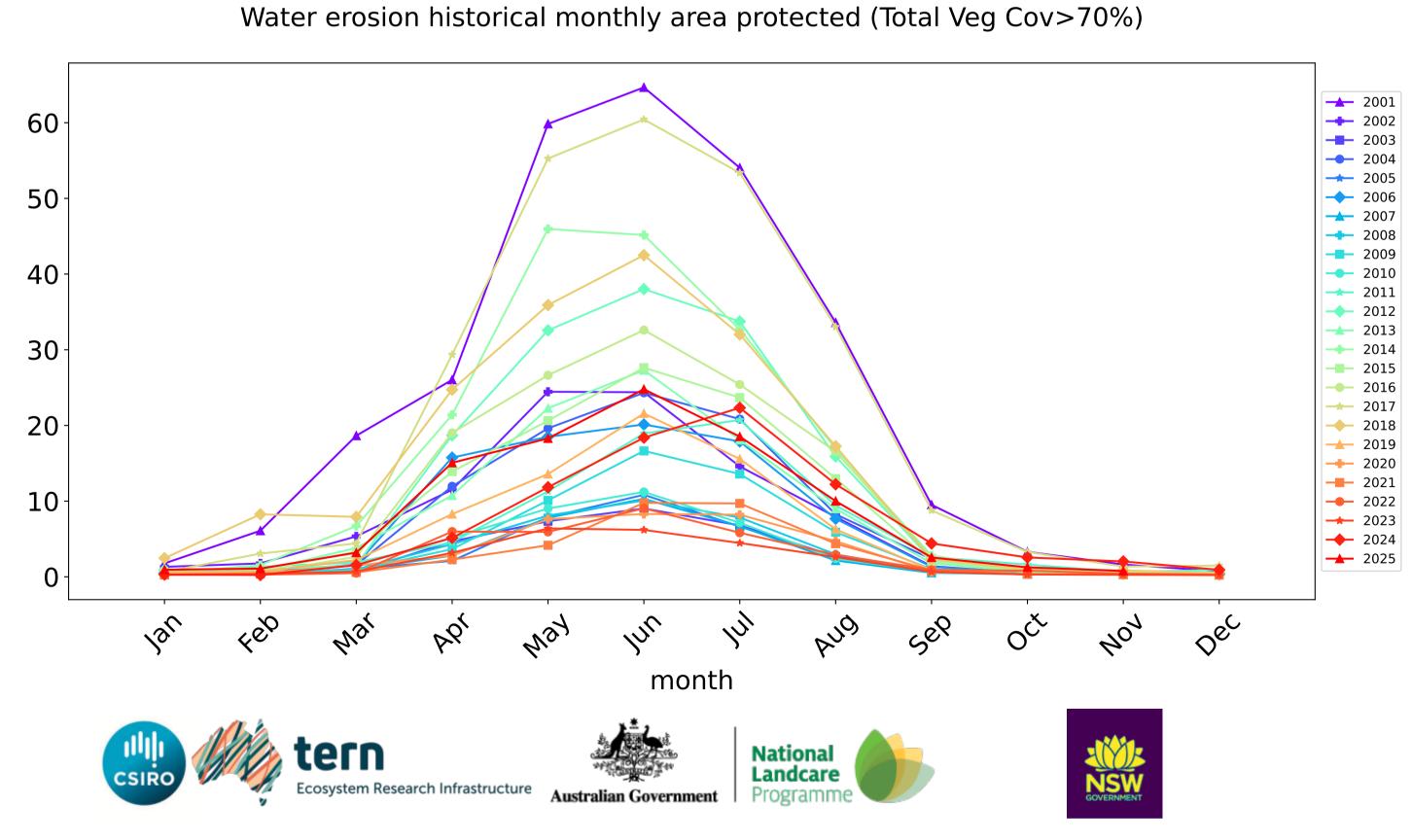


### **Grazing timeseries**



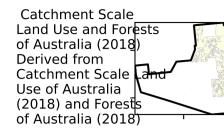






### **Grazing non forest**

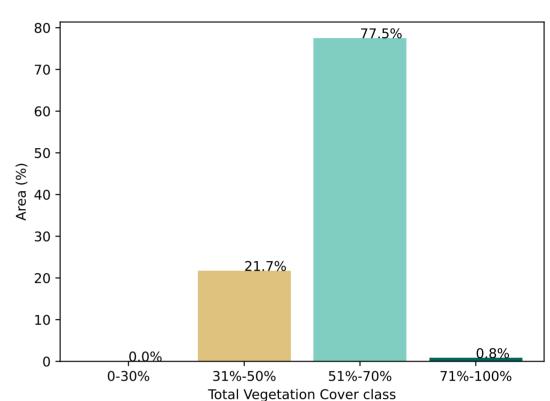
### Land use and forest cover

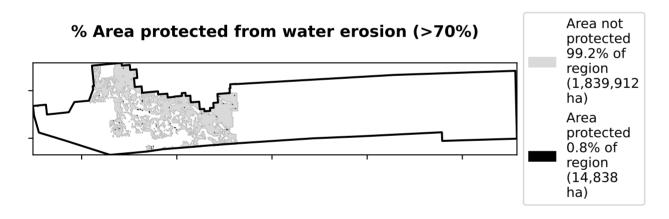


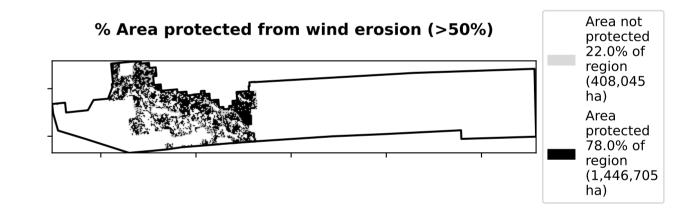


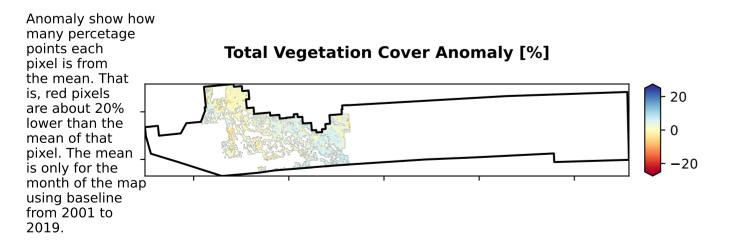
## 

### Proportion of vegetation cover class in area









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 [%]

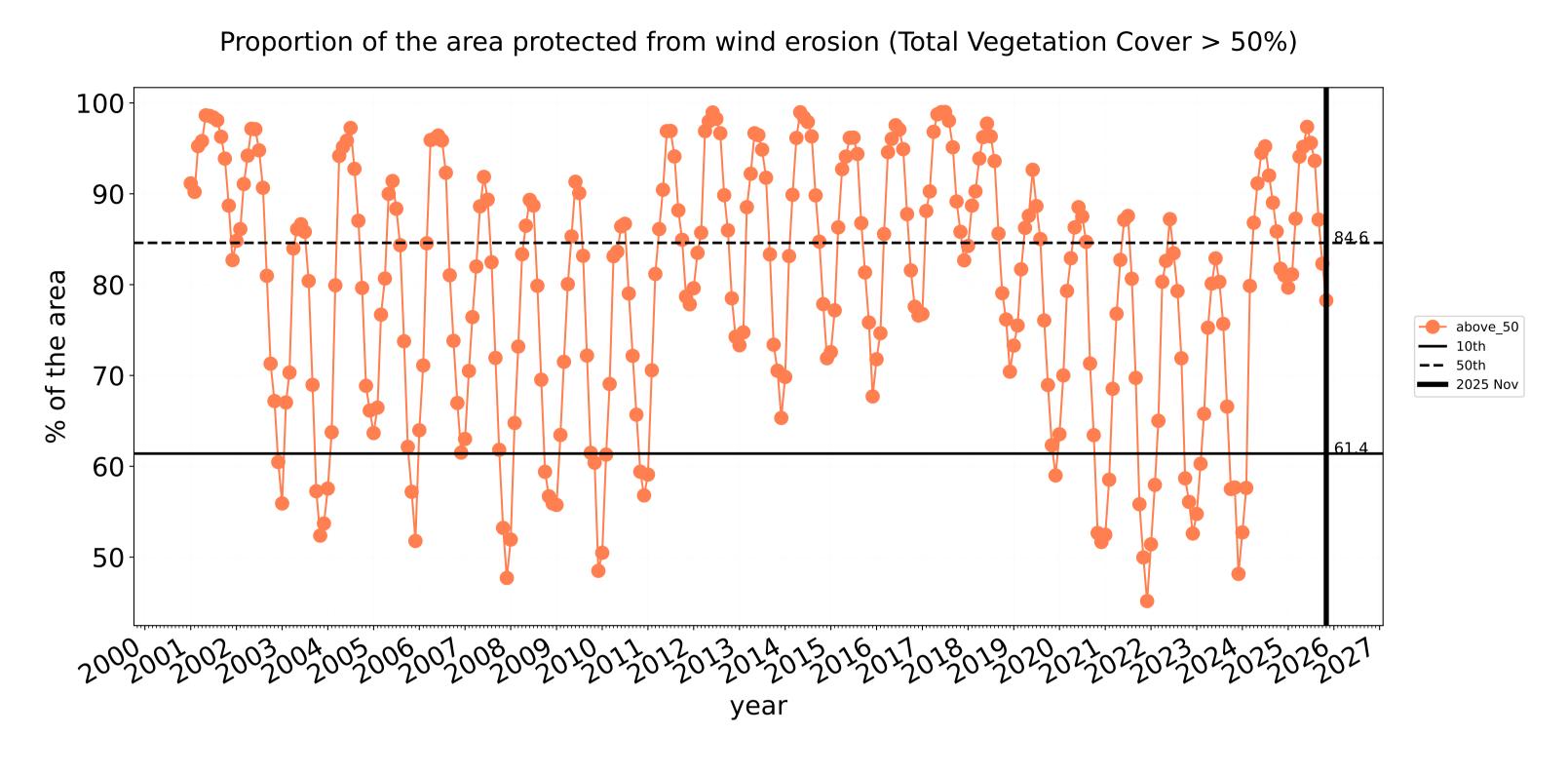


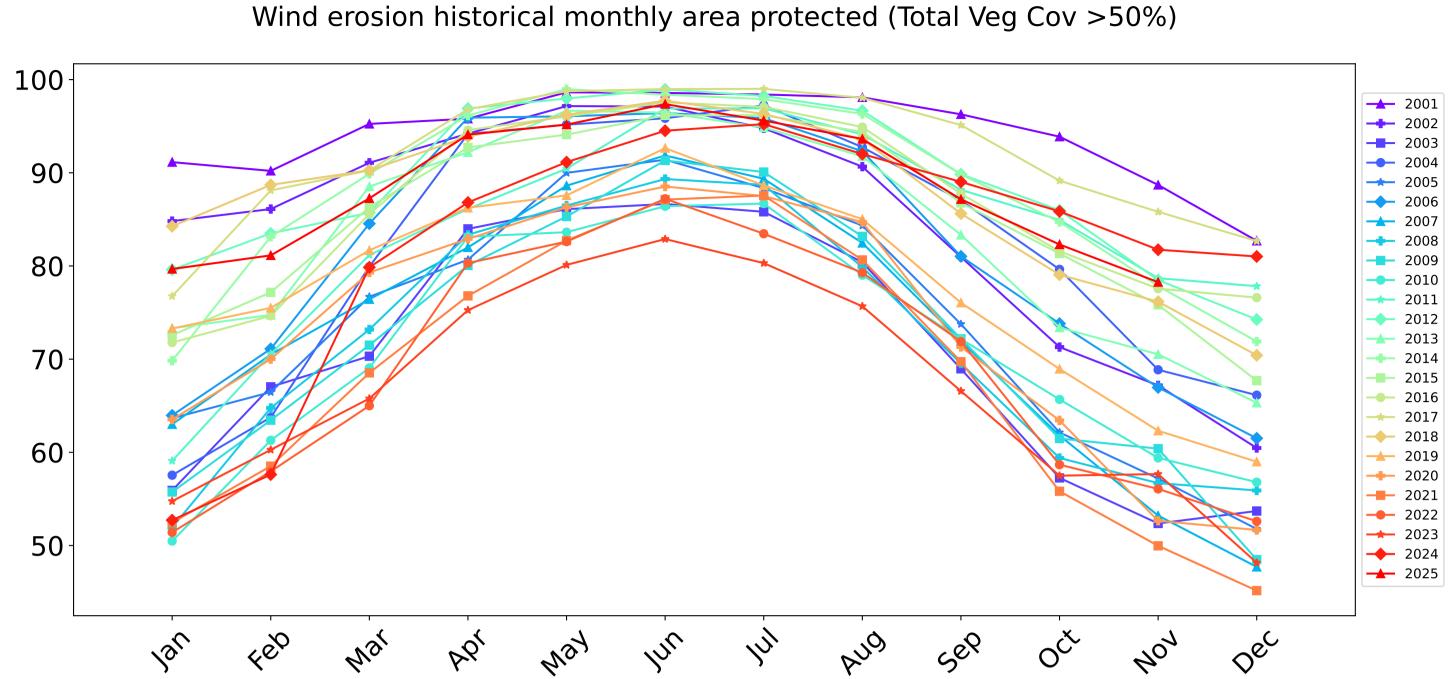


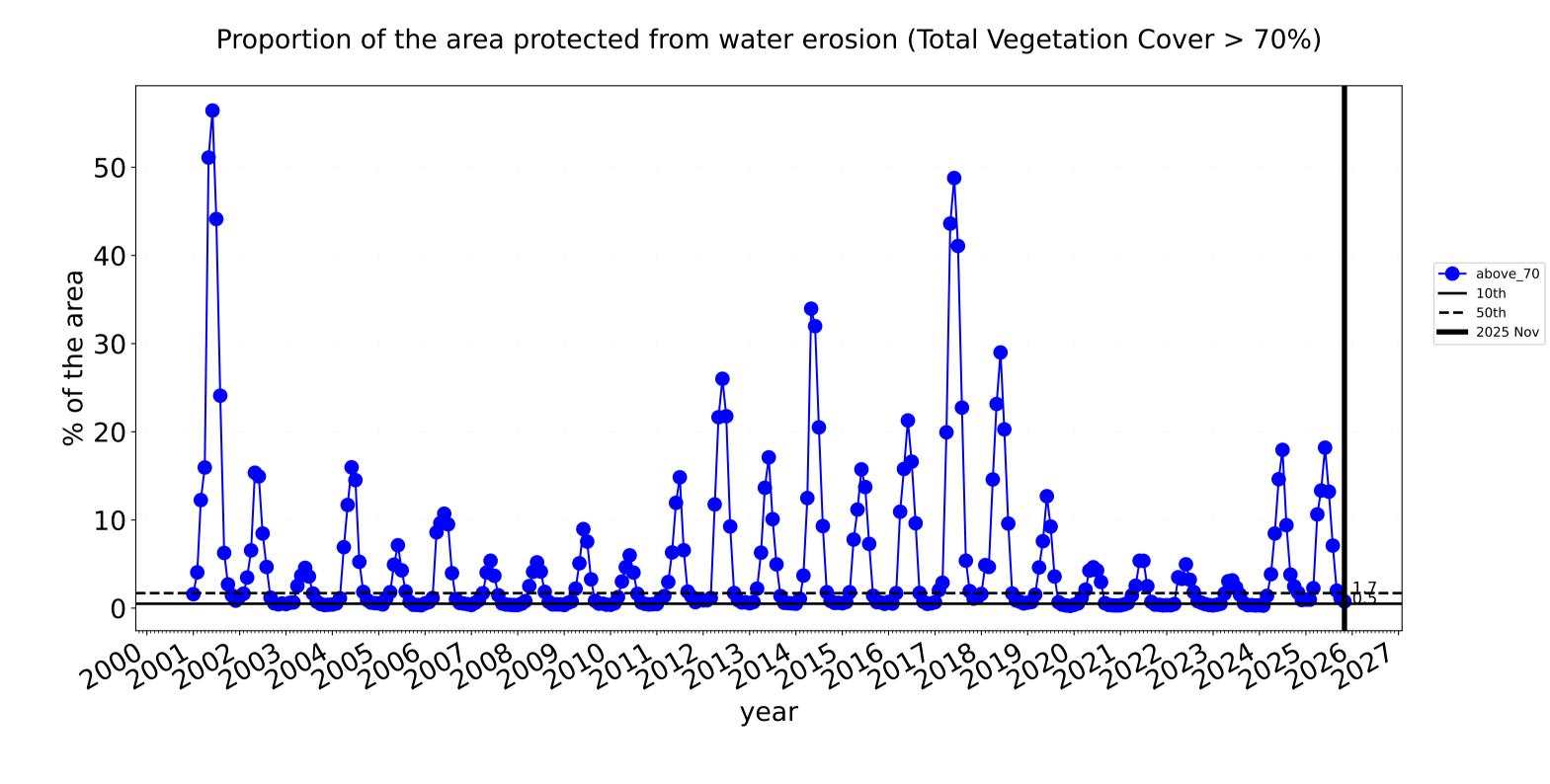


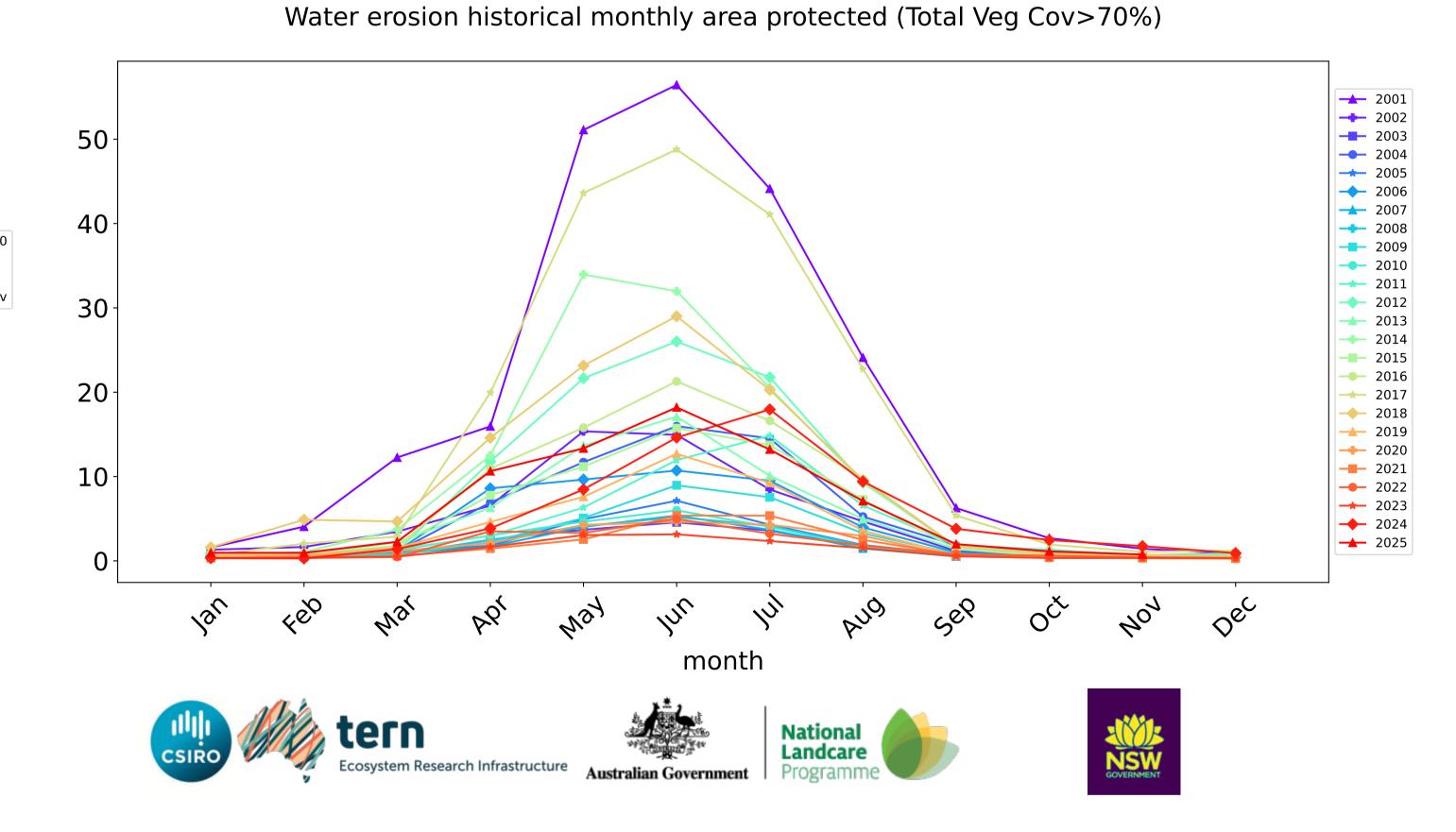


### **Grazing non forest timeseries**



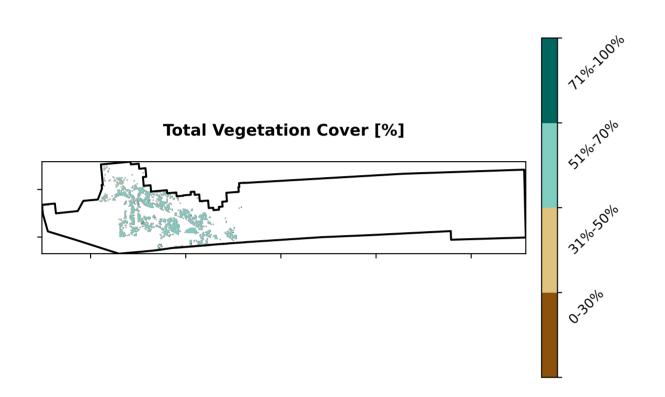




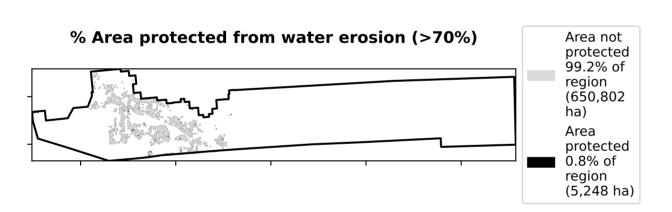


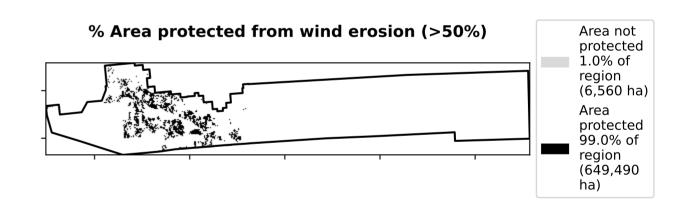
### **Grazing Woodland forest**

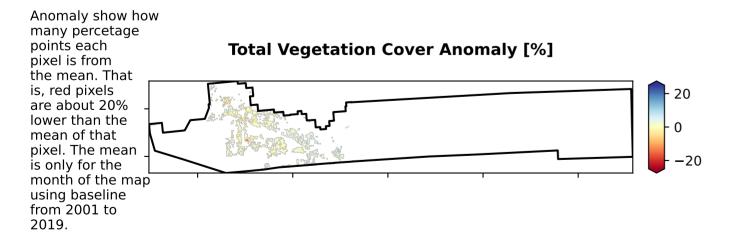
## Catchment Scale Land Use and Forests of Australia (2018) Derived from Catchment Scale Use of Australia (2018) and Forests of Australia (2018)

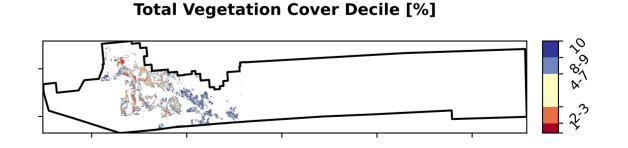


# Proportion of vegetation cover class in area 100 - 98.4% 80 - 80 - 98.4% 40 - 20 - 0.0% 0.8% 0-30% 31%-50% 51%-70% 71%-100% Total Vegetation Cover class









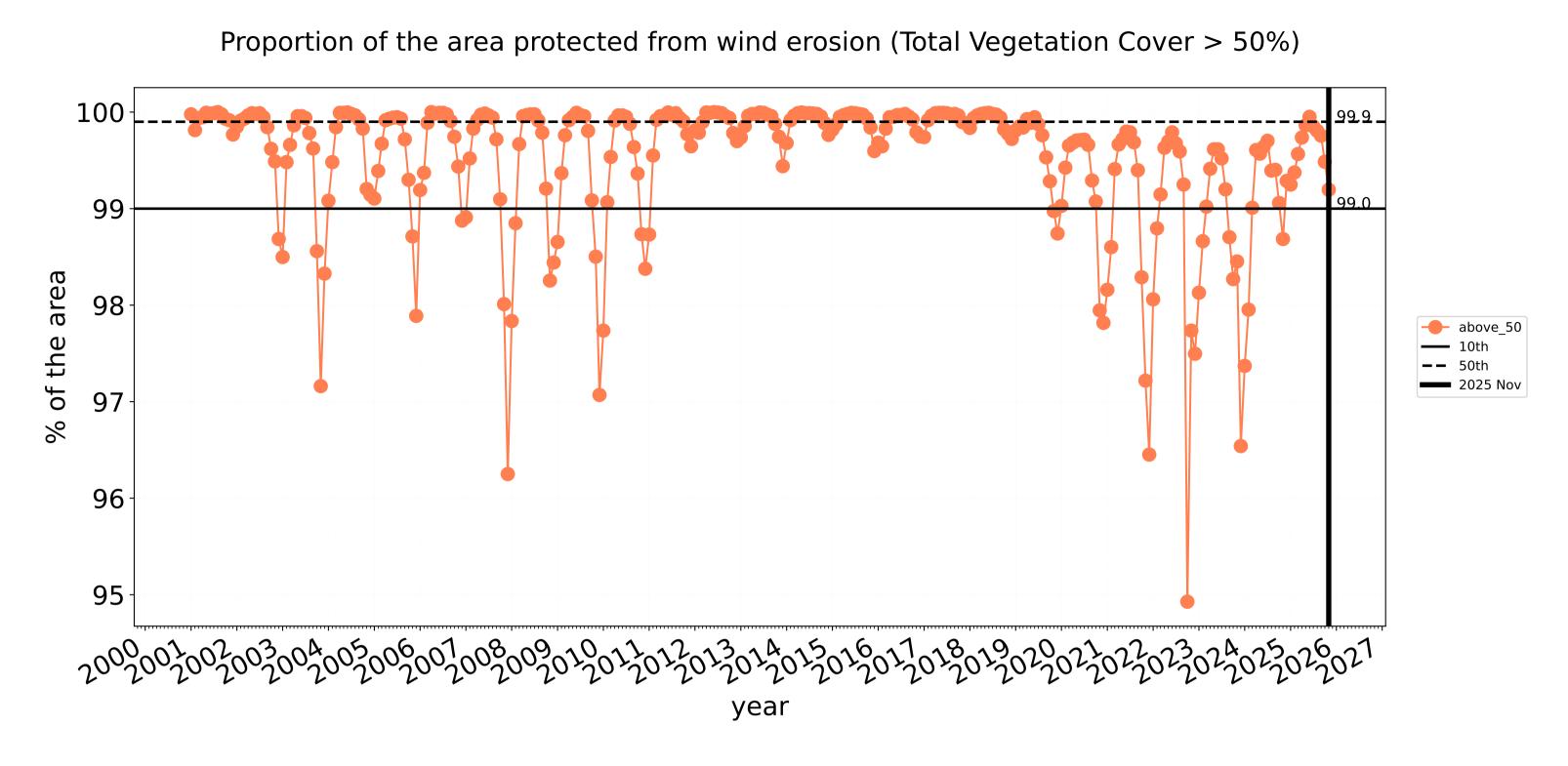


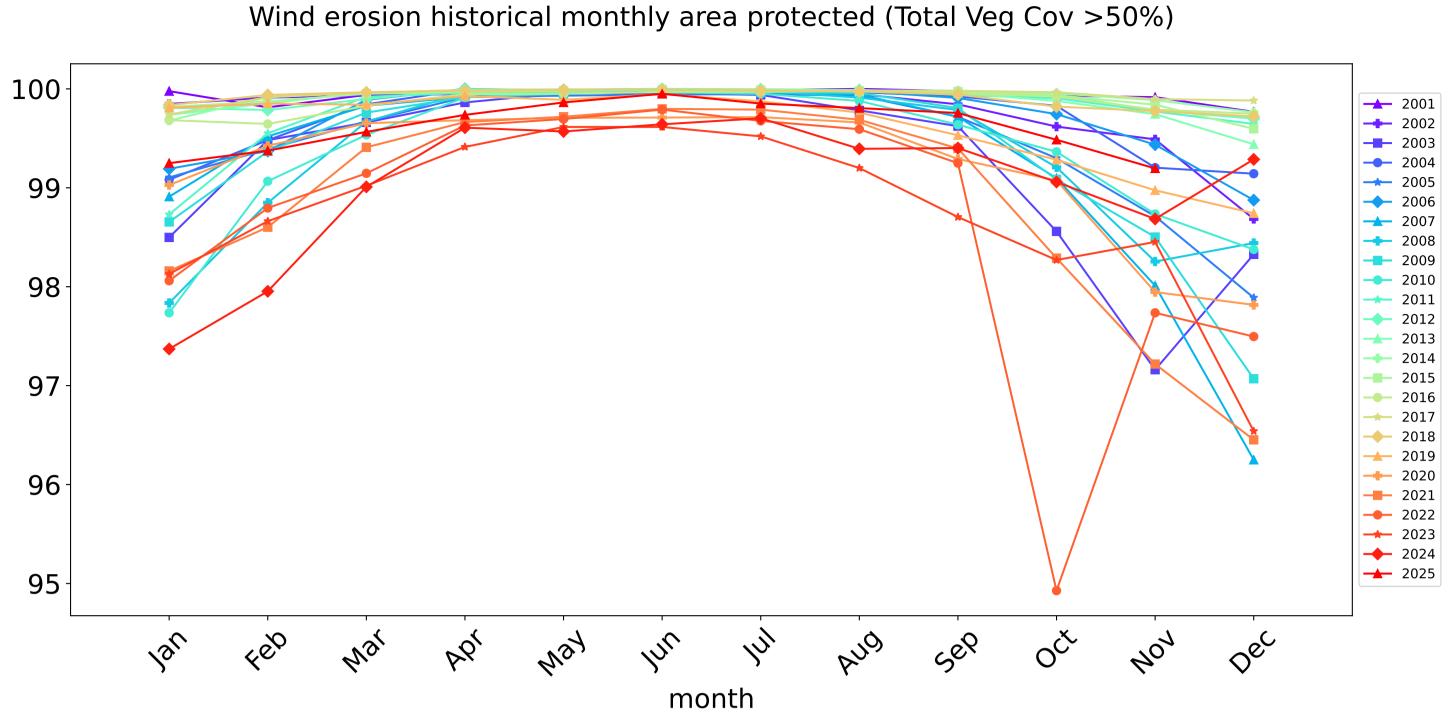


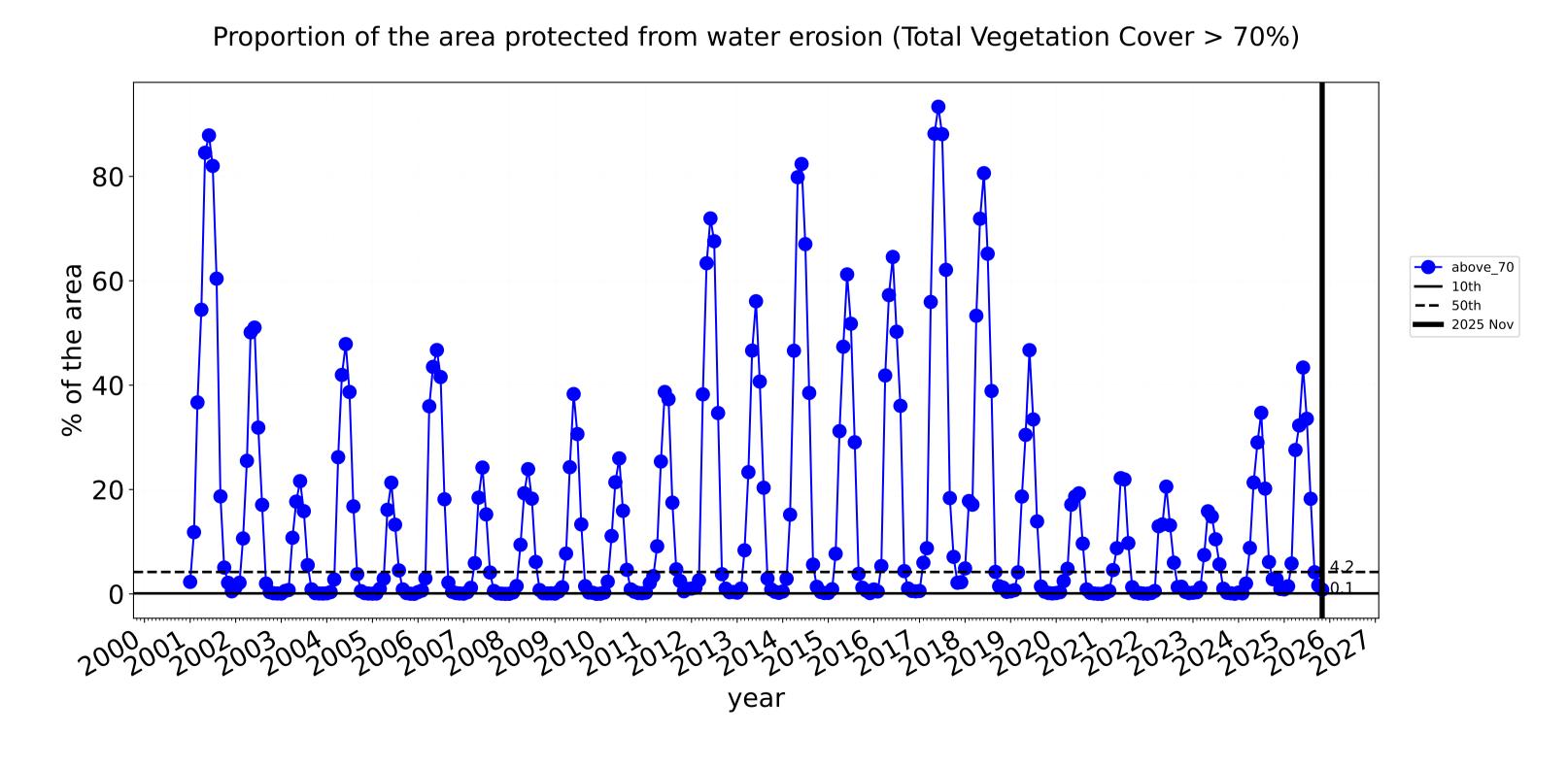


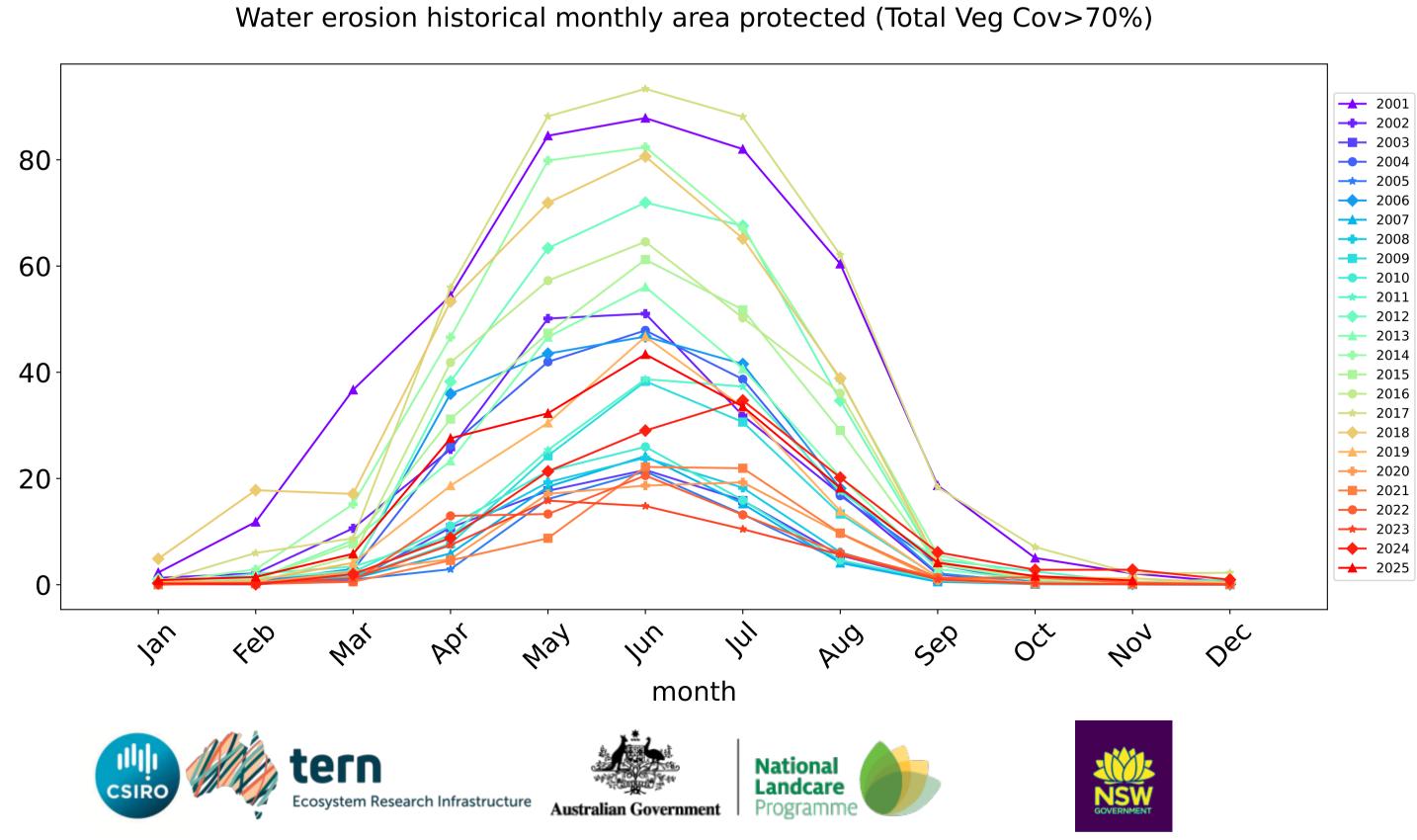


### **Grazing Woodland forest timeseries**









### Menzies\_(S) (12,325,300 ha and no data 66,462 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	12,325,300	99.0% 12,199,375	55.8% 6,876,125	4.1% 508,425	1.6% 197,600	1.2% 144,900	1.0% 117,750
Conservation and natural environments	9,461,150	98.7% 9,338,475	47.2% 4,463,925	2.9% 273,975	0.2% 18,575	0.1% 9,550	0.1% 8,525
Conservation and natural environments non forest	8,682,075	98.6% 8,559,400	42.5% 3,688,400	2.2% 189,450	0.2% 17,125	0.1% 9,550	0.1% 8,525
Conservation and natural environments Woodland forest	779,075	100.0% 779,075	99.5% 775,525	10.8% 84,525	0.2% 1,450	0.0%	0.0%
Agriculture	2,510,800	100.0% 2,509,875	83.7% 2,102,375	0.8% 19,375	0.2% 4,875	0.1% 3,450	0.1% 2,750
Grazing	2,510,800	100.0% 2,509,875	83.7% 2,102,375	0.8% 19,375	0.2% 4,875	0.1% 3,450	0.1% 2,750
Grazing non forest	1,854,750	100.0% 1,853,850	78.3% 1,451,600	0.8% 14,100	0.3% 4,875	0.2% 3,450	0.1% 2,750
Grazing Woodland forest	656,050	100.0% 656,025	99.2% 650,775	0.8% 5,275	0.0%	0.0%	0.0%







