

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

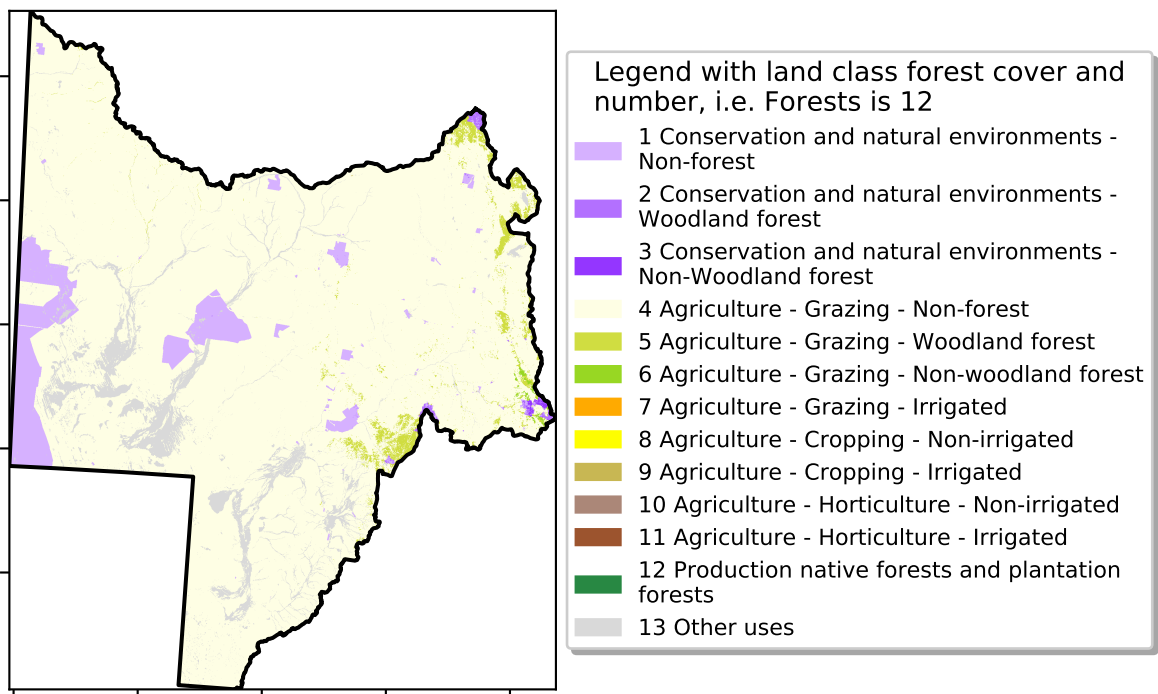
Erosion protection: Wind erosion 50% total vegetation cover

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 (>5

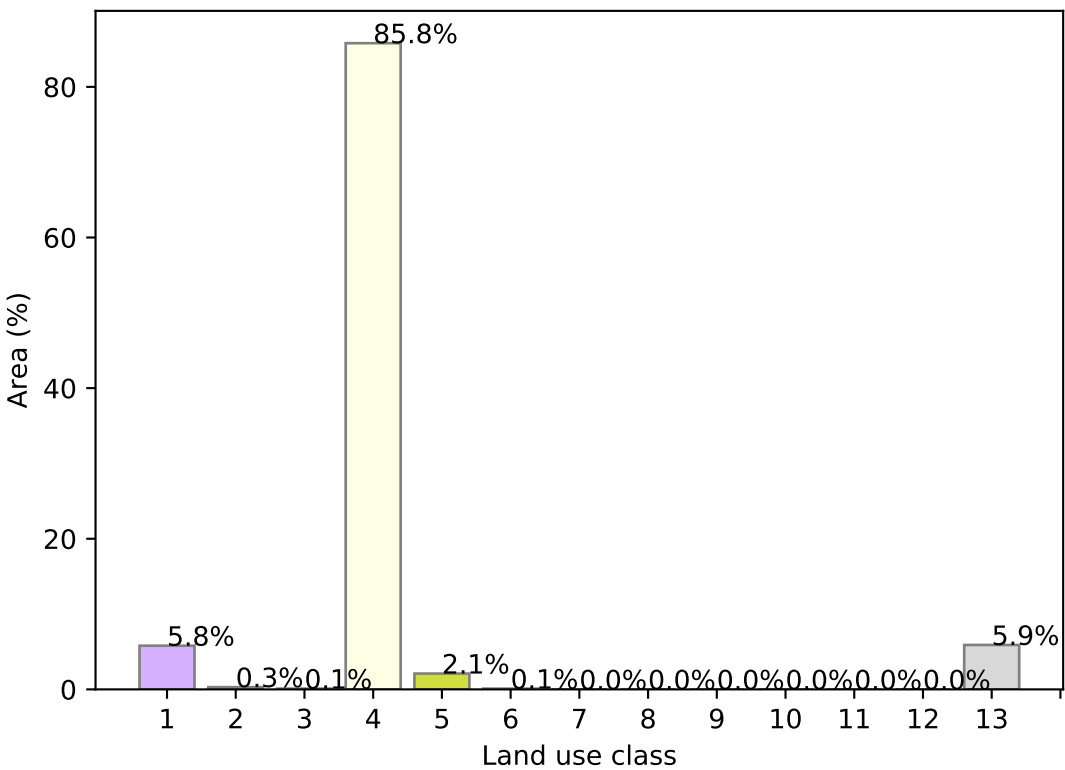
Vegetation Cover Apr 2009

Land use and forest cover

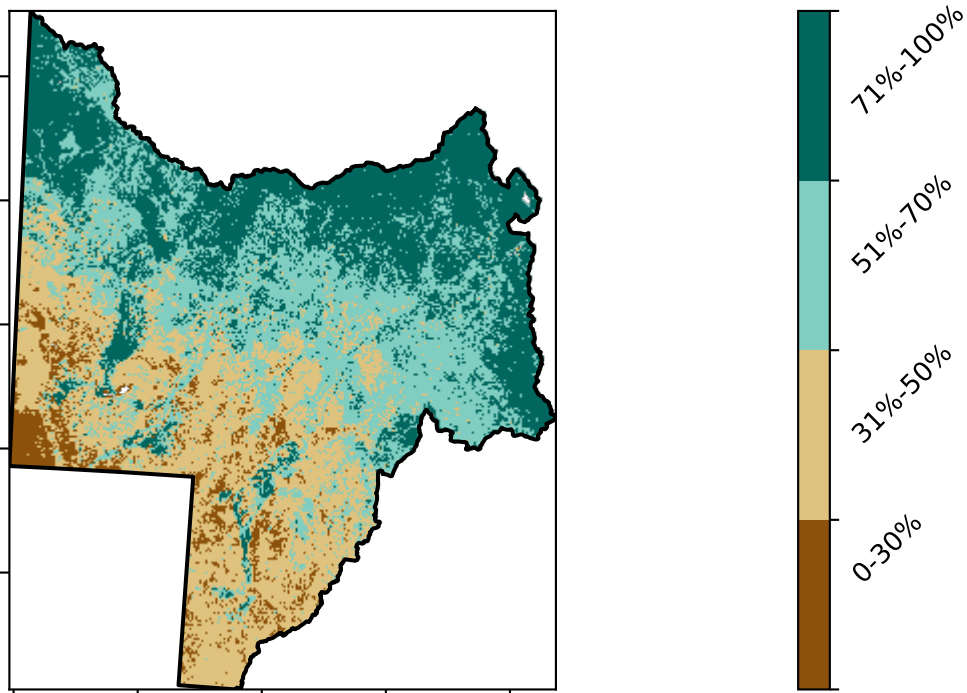


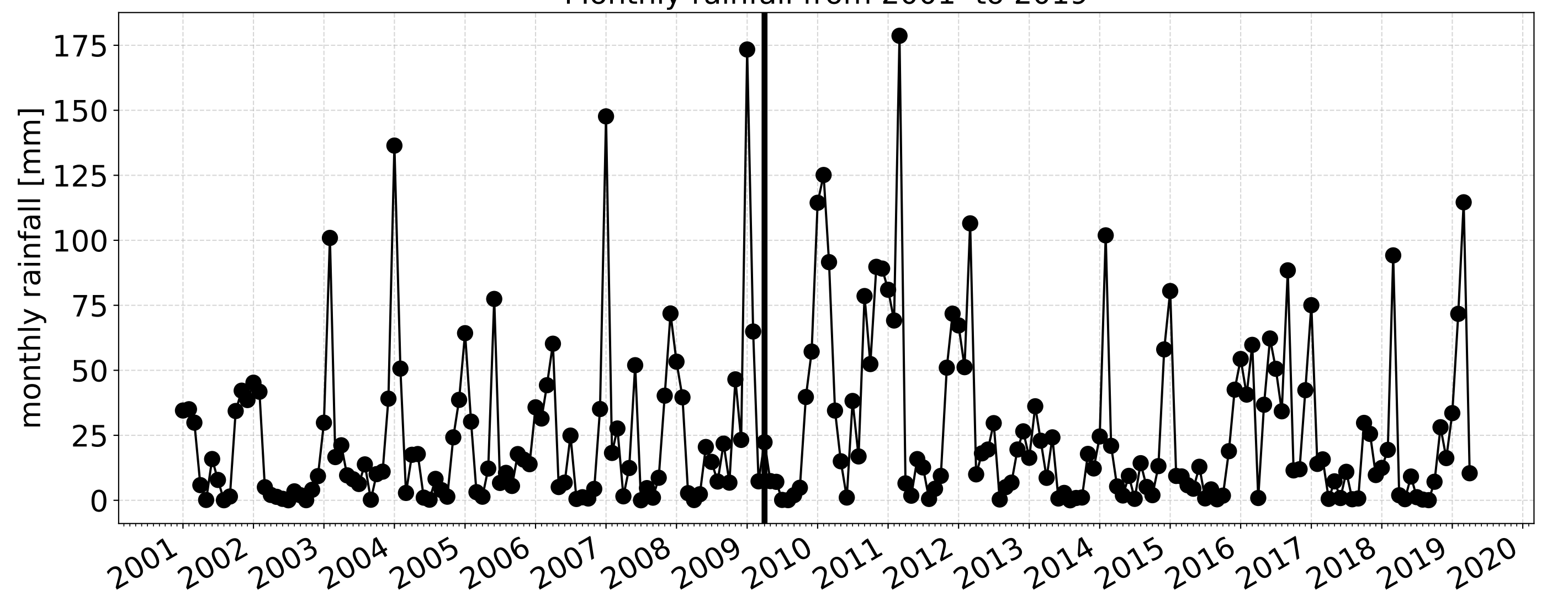
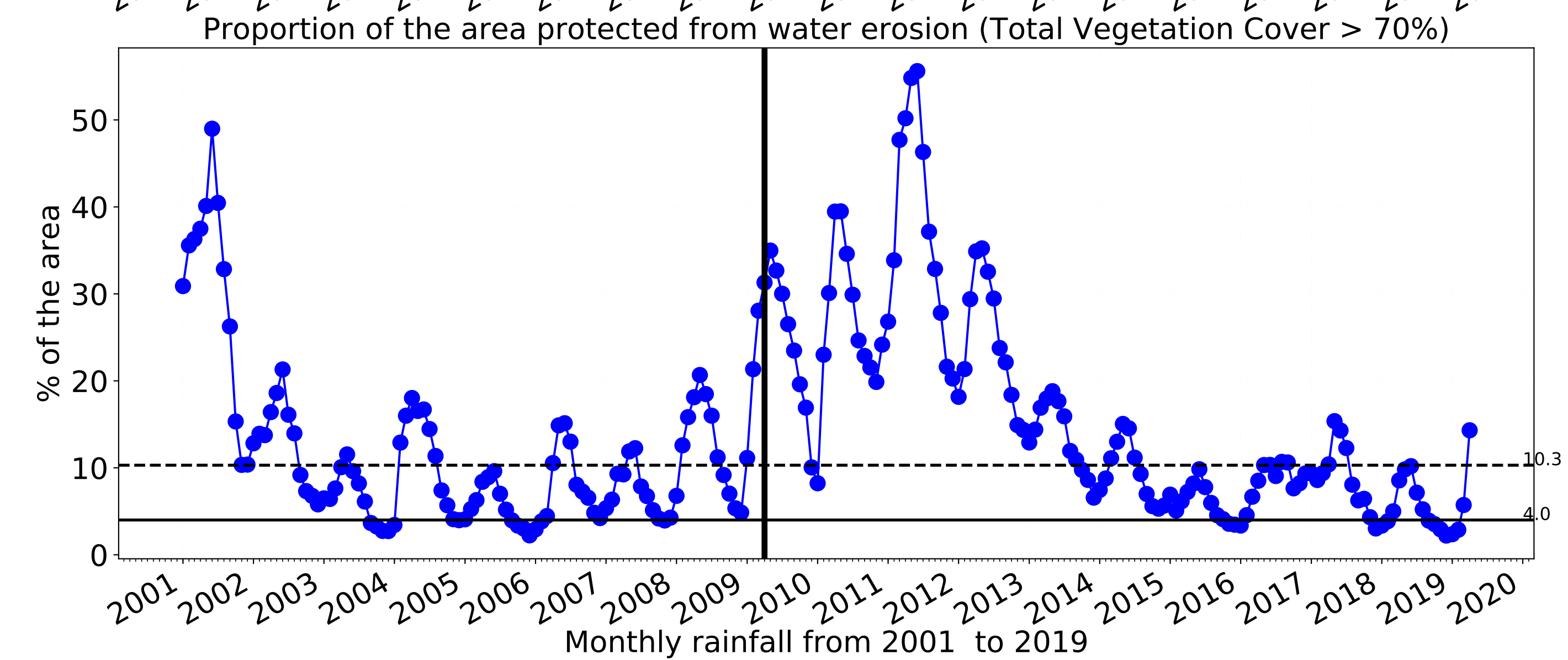
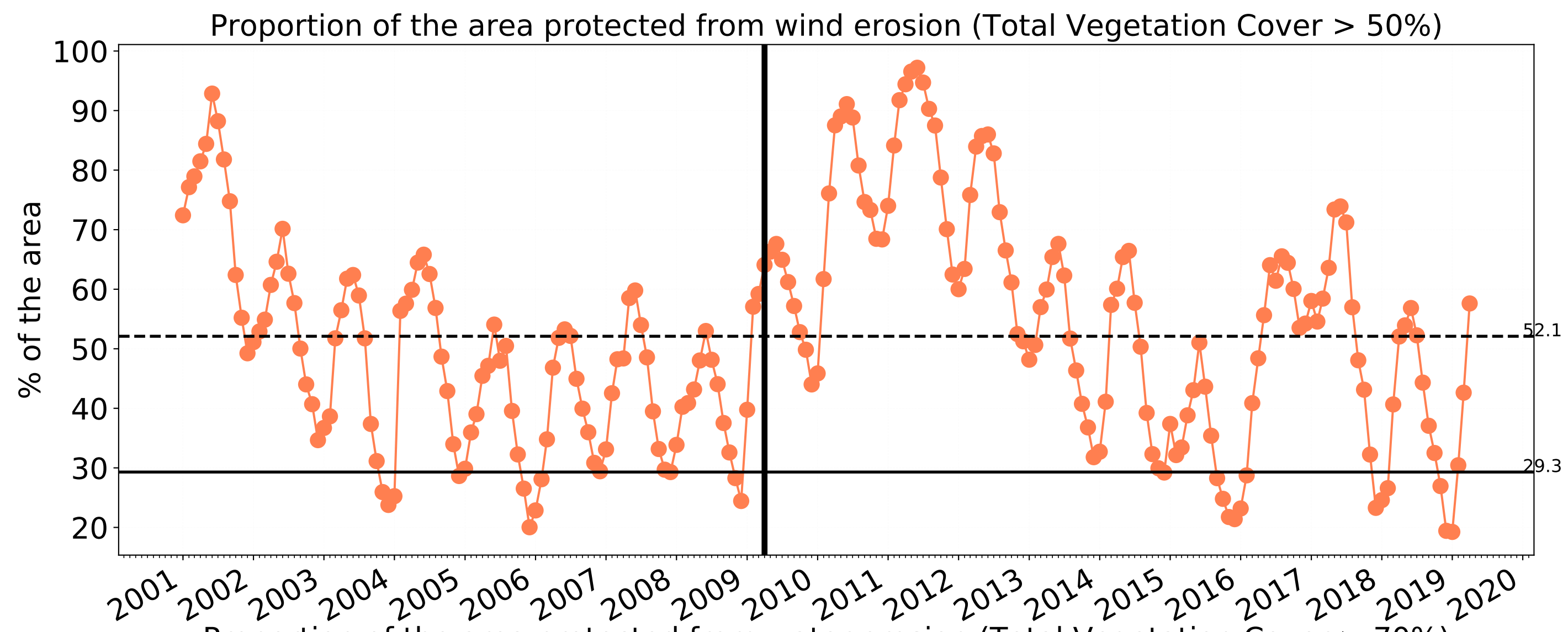
Catchment Scale
Land Use and Forests
of Australia (2018)
Derived from
Catchment Scale Land
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Proportion of each land class in area



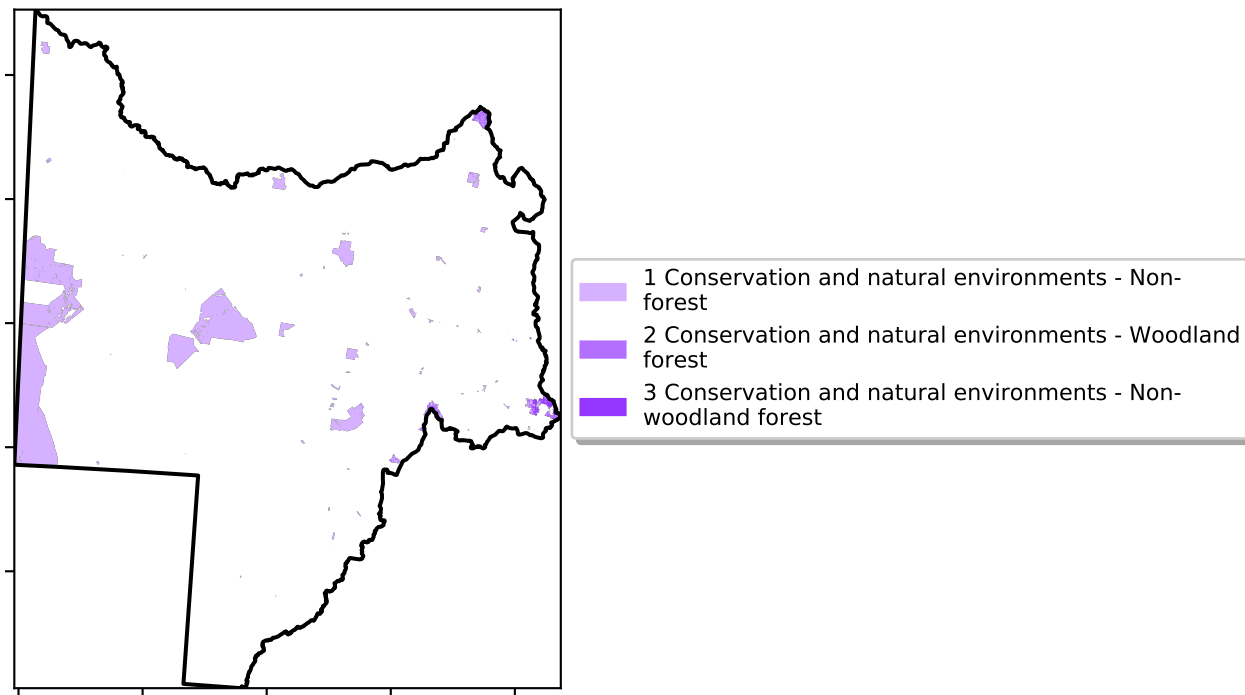
Total Vegetation Cover [%]



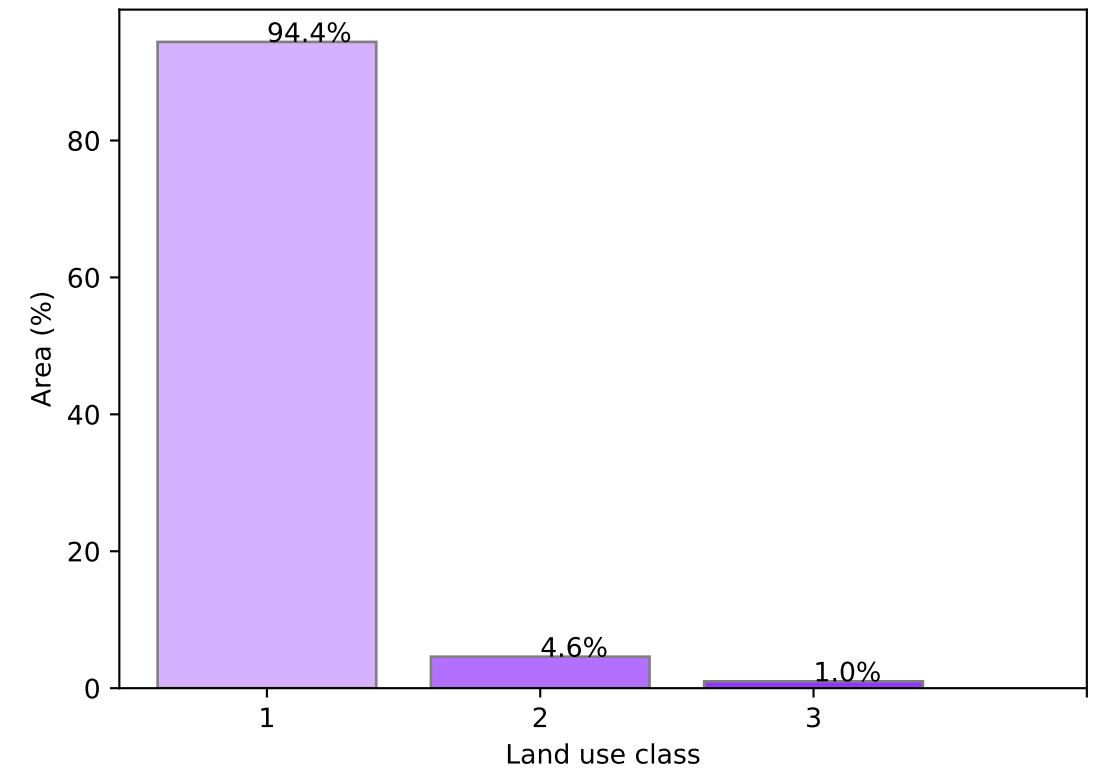


Conservation and natural environments

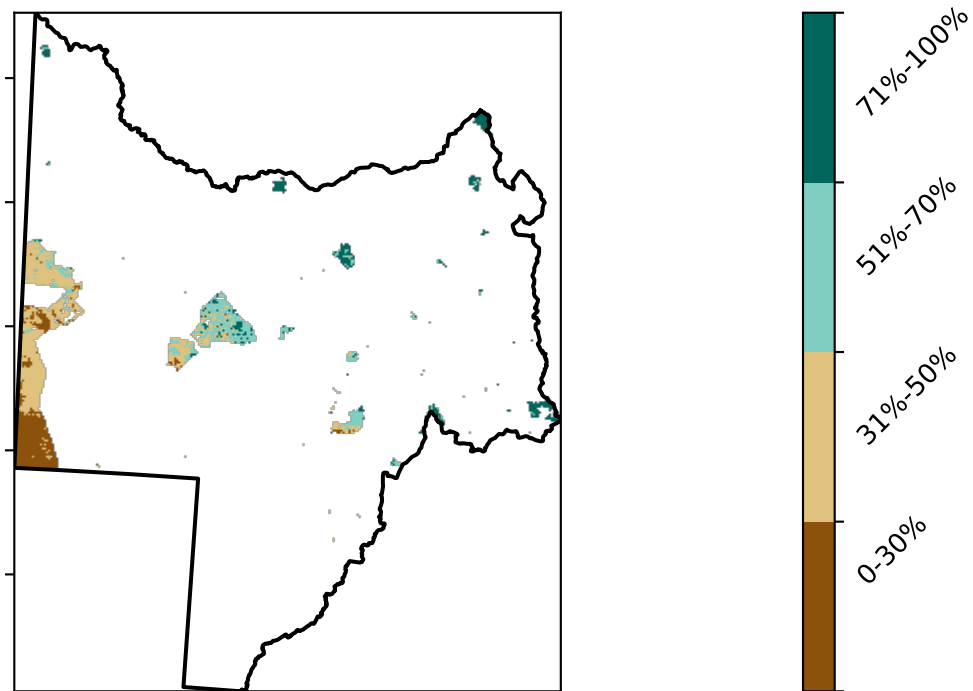
Land use and forest cover



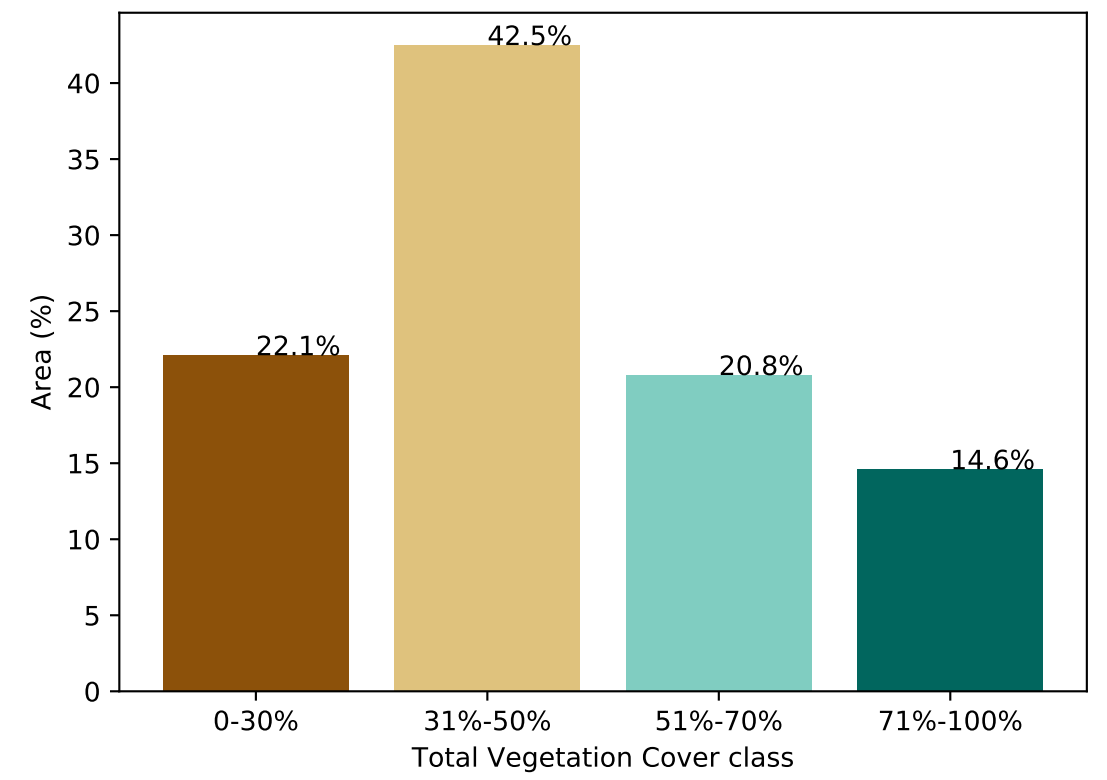
Proportion of each land class in area



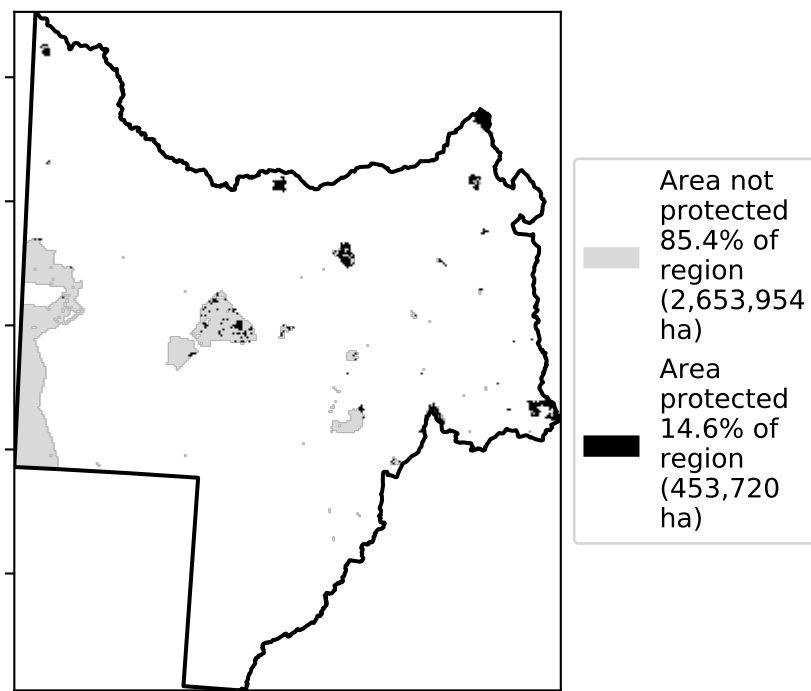
Total Vegetation Cover [%]



Proportion of vegetation cover class in area

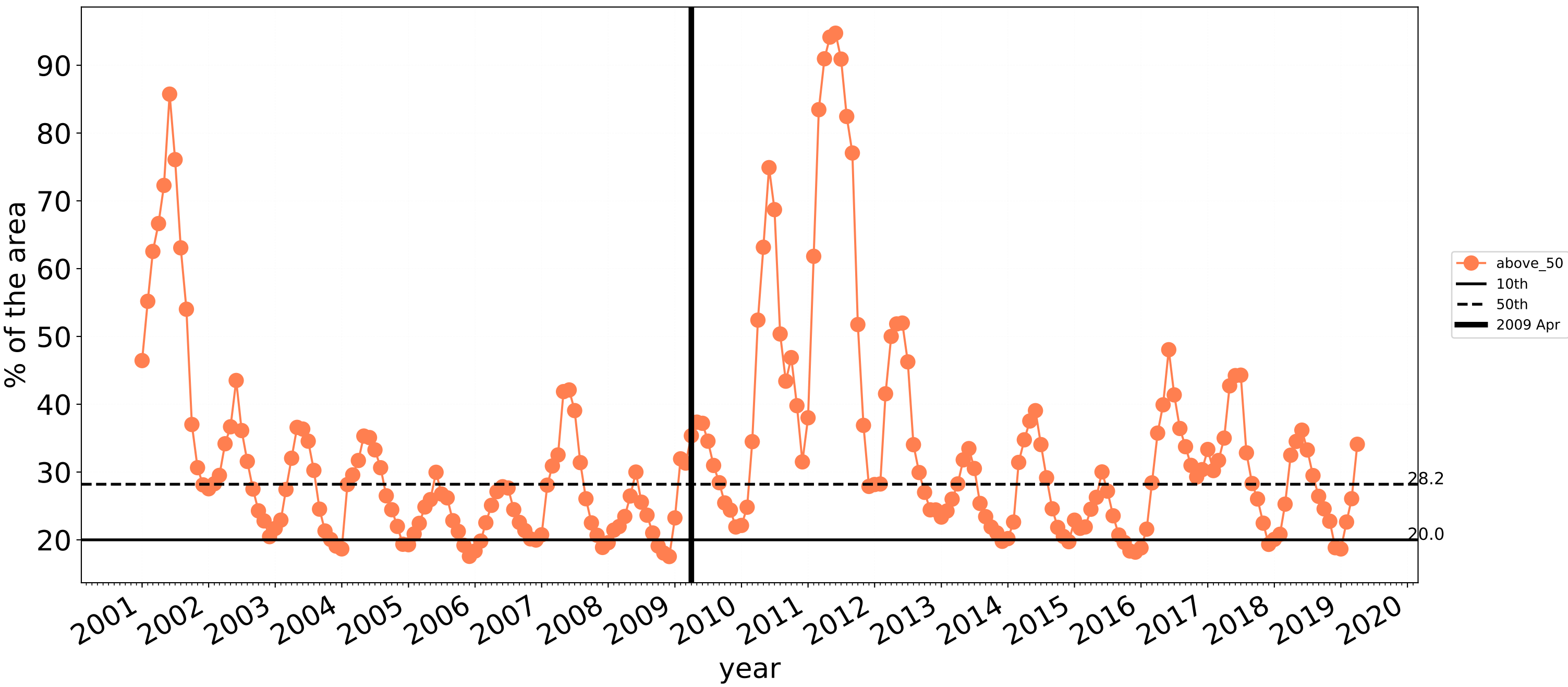


% Area protected from water erosion (>70%)

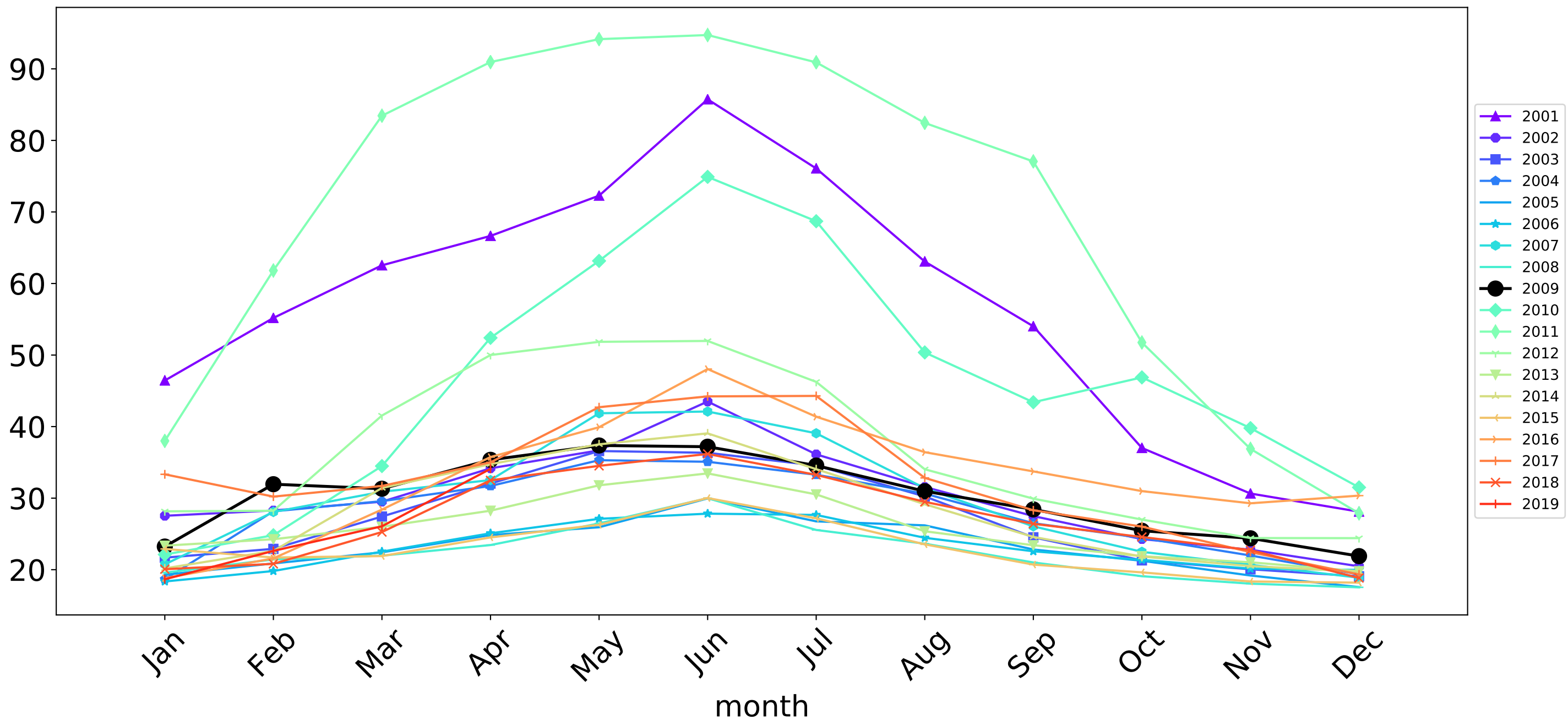


Conservation and natural environments timeseries

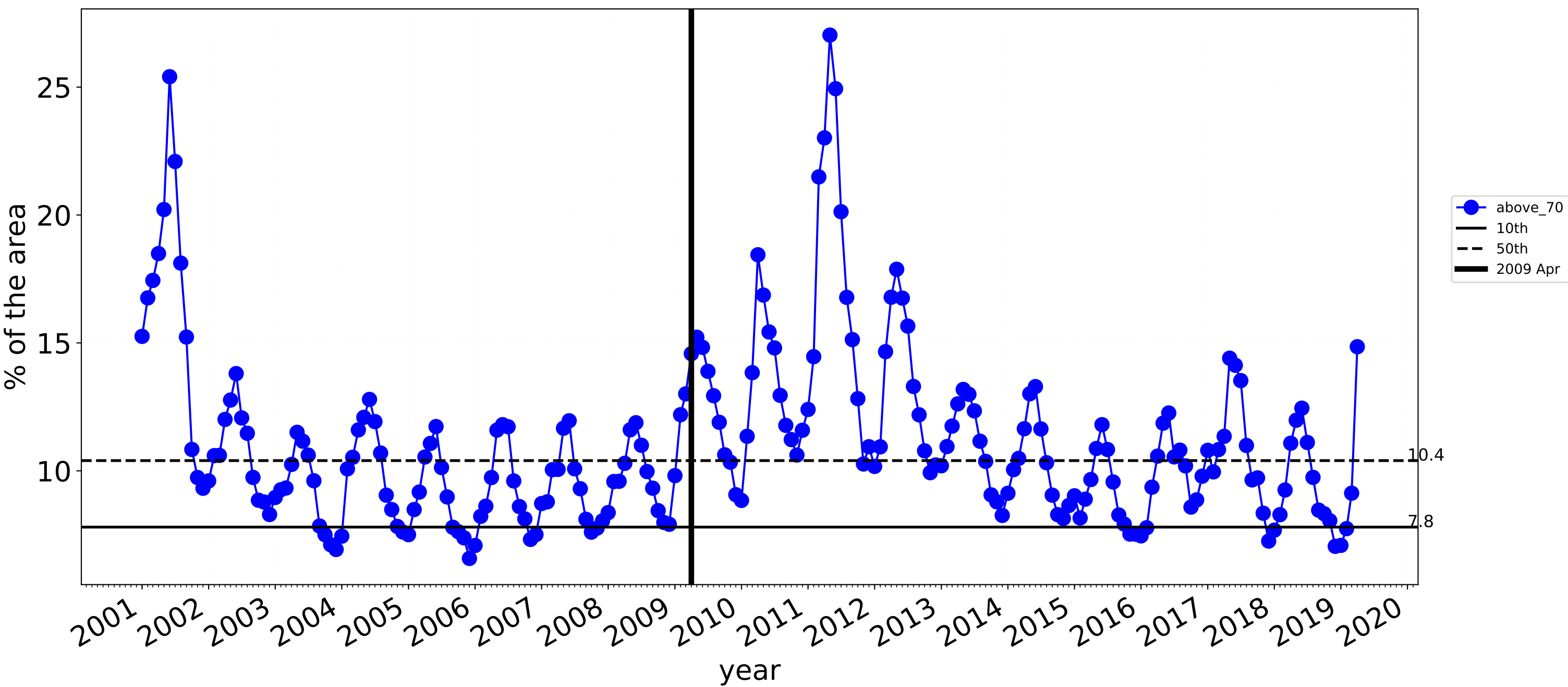
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



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

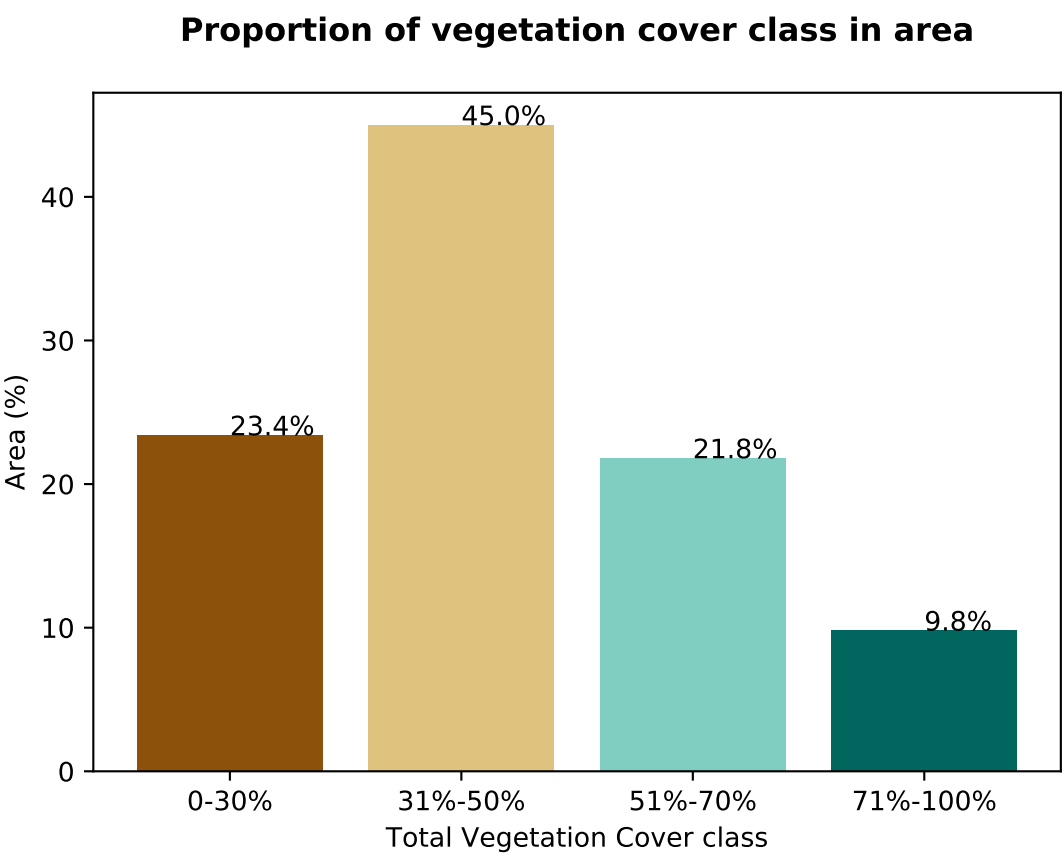
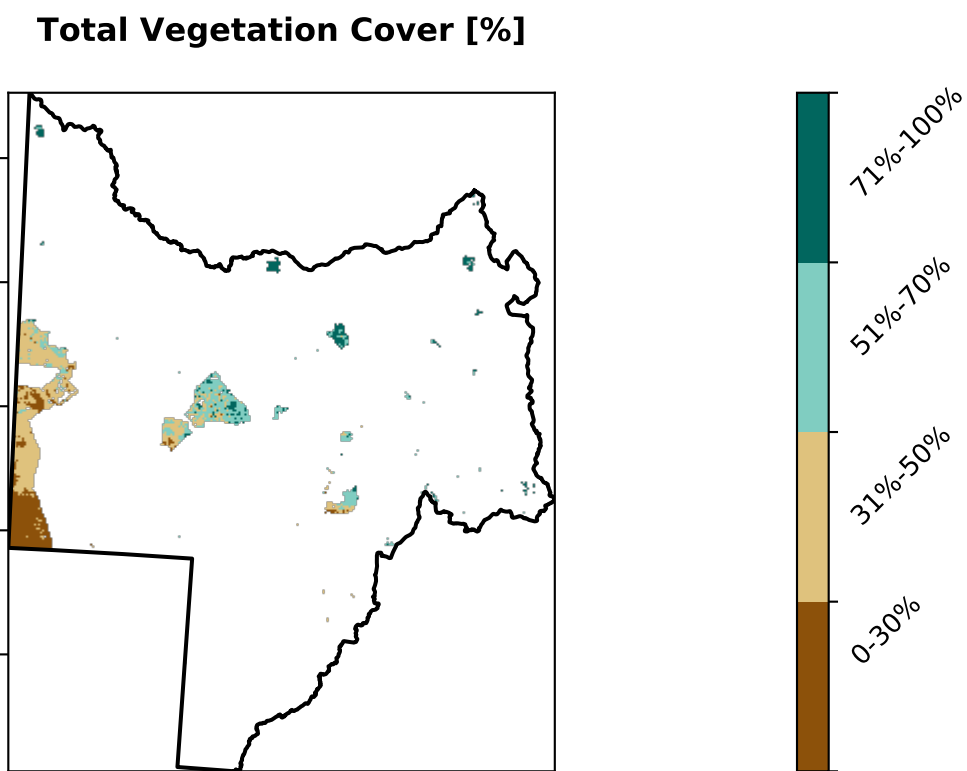
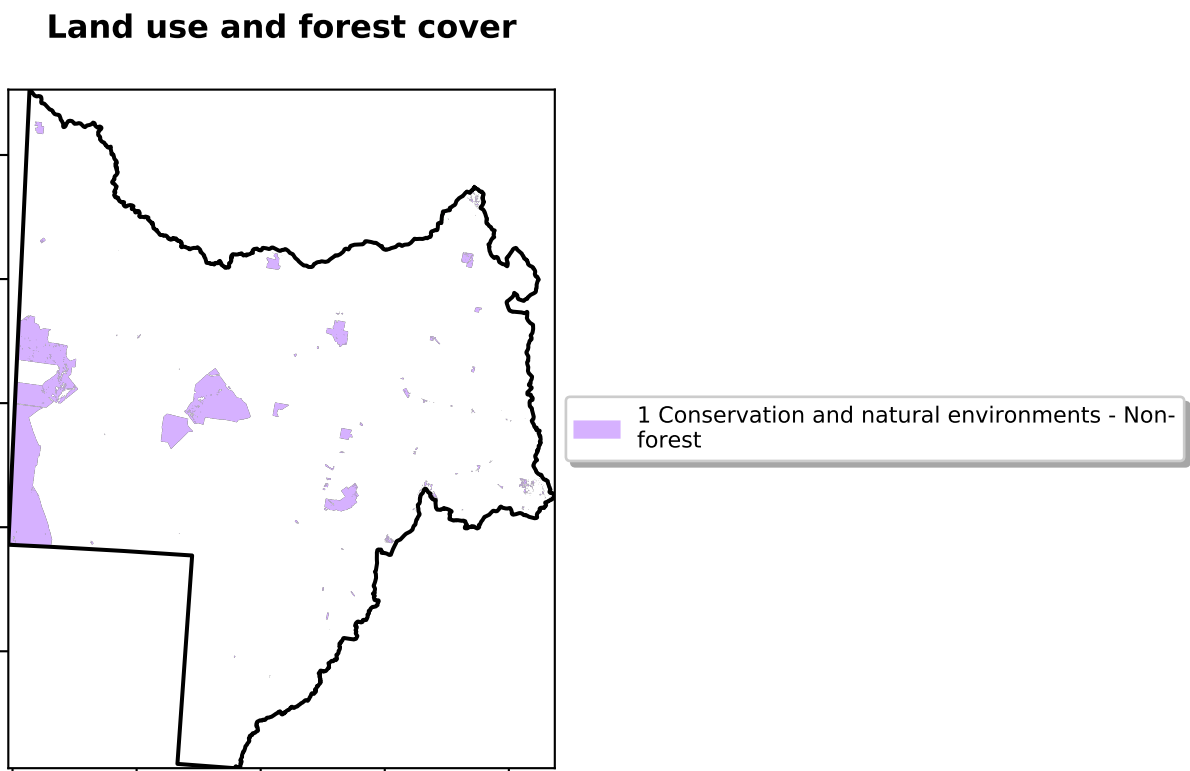


Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)

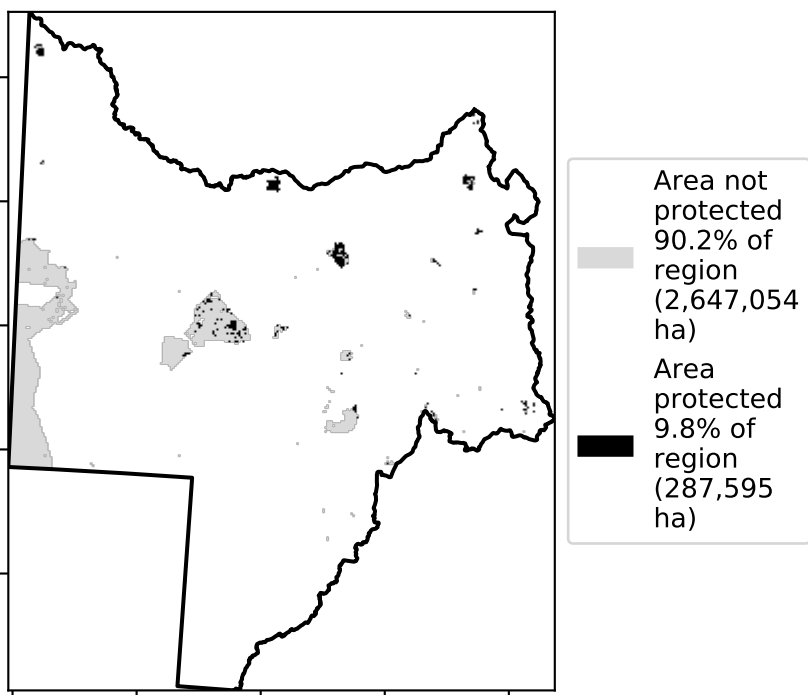


Conservation and natural environments non forest

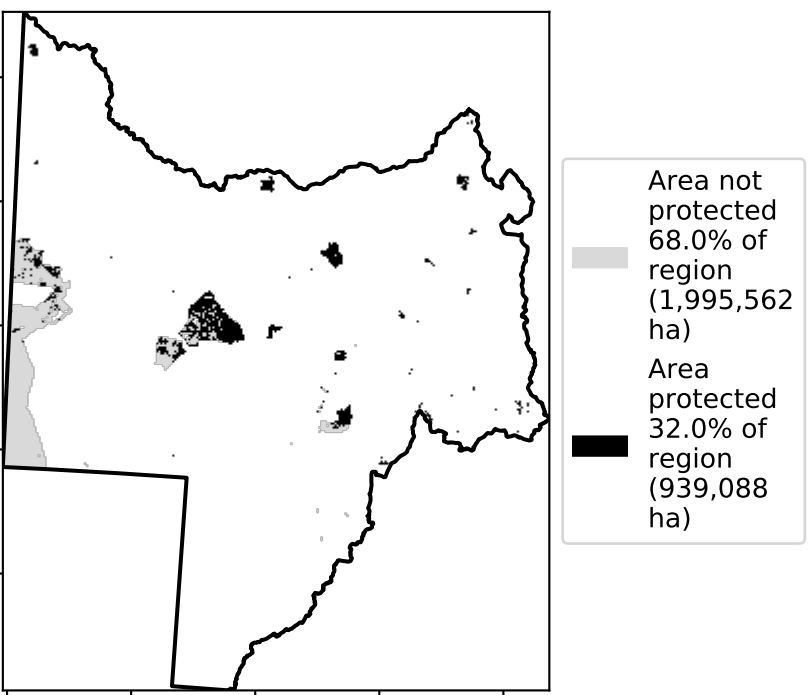
Catchment Scale
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% Area protected from water erosion (>70%)

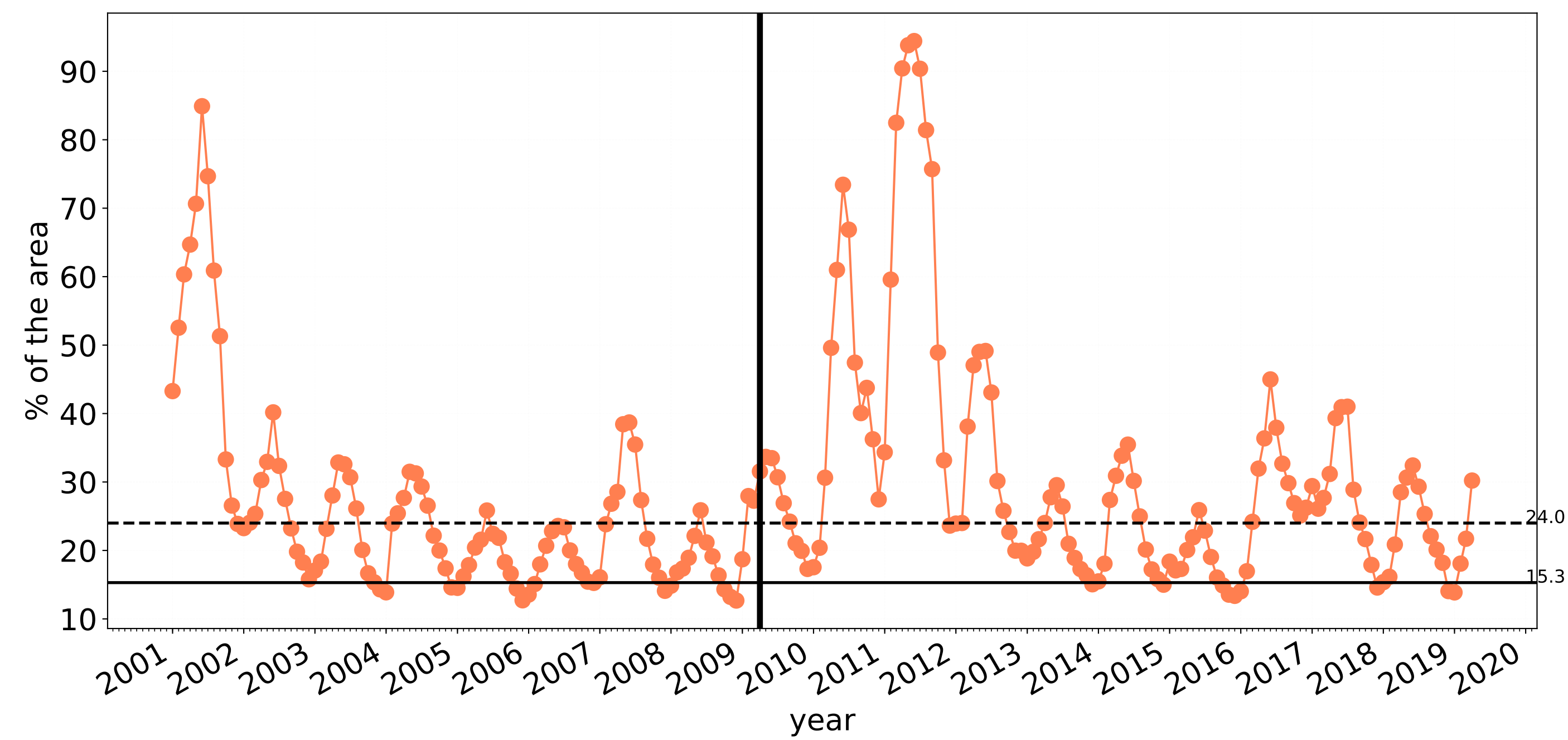


% Area protected from wind erosion (>50%)

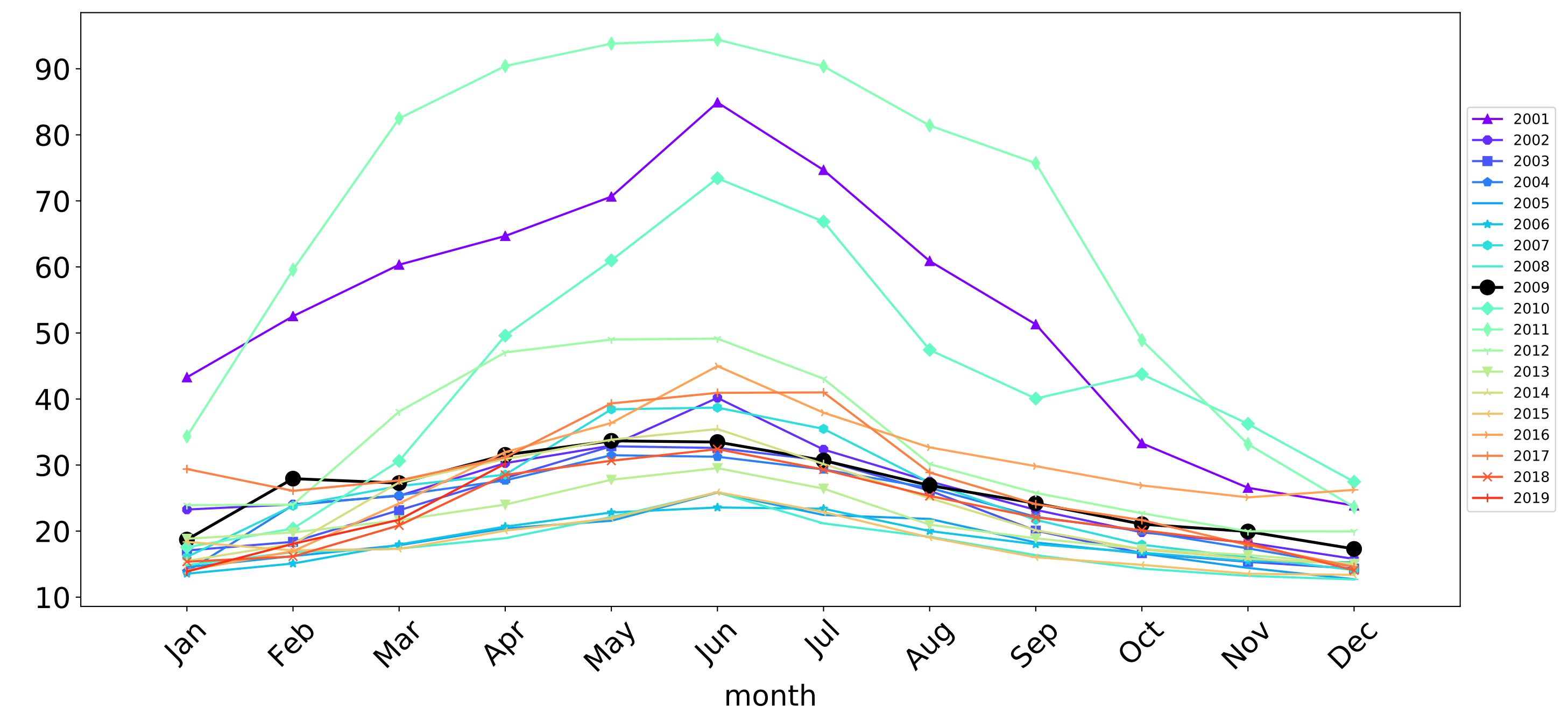


Conservation and natural environments non forest timeseries

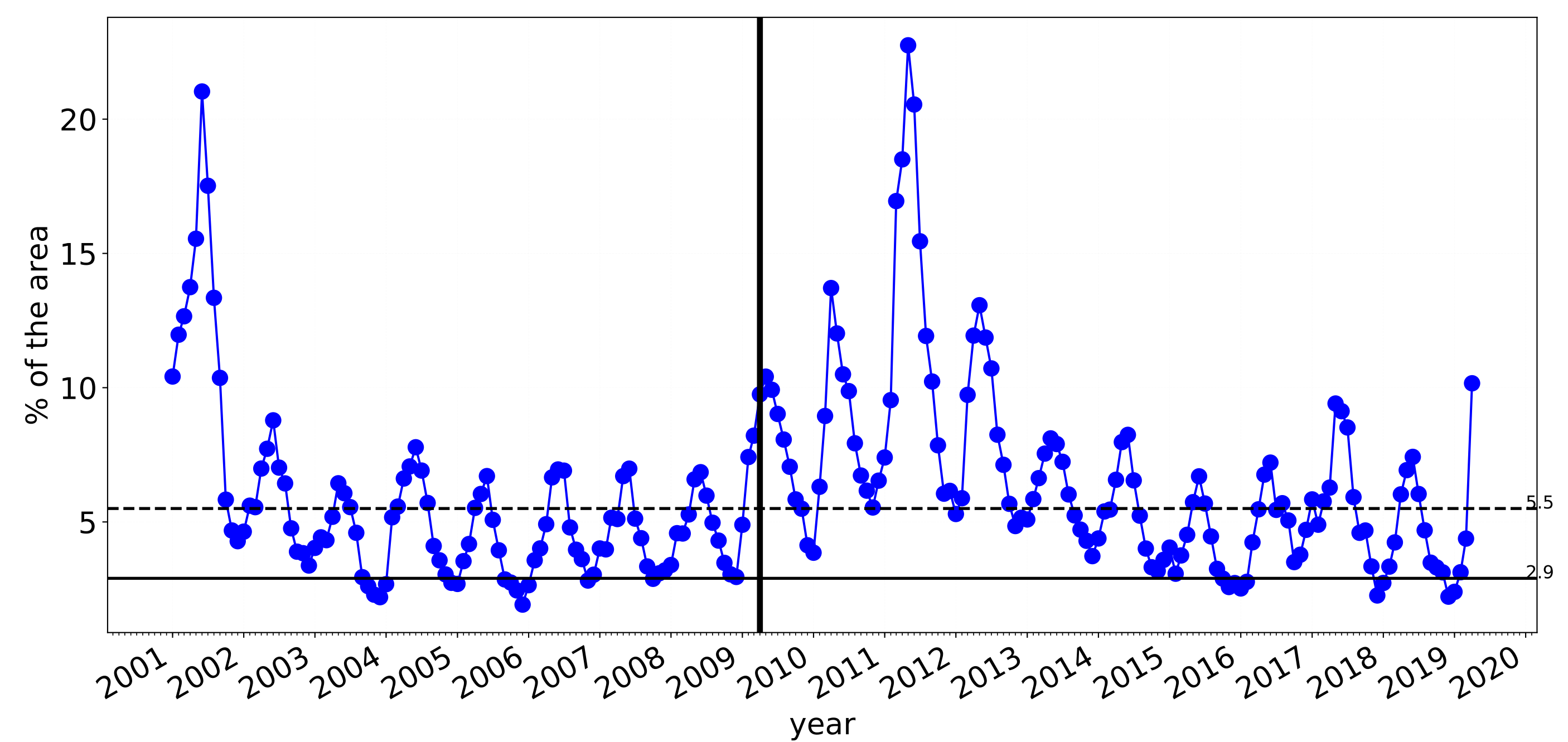
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



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



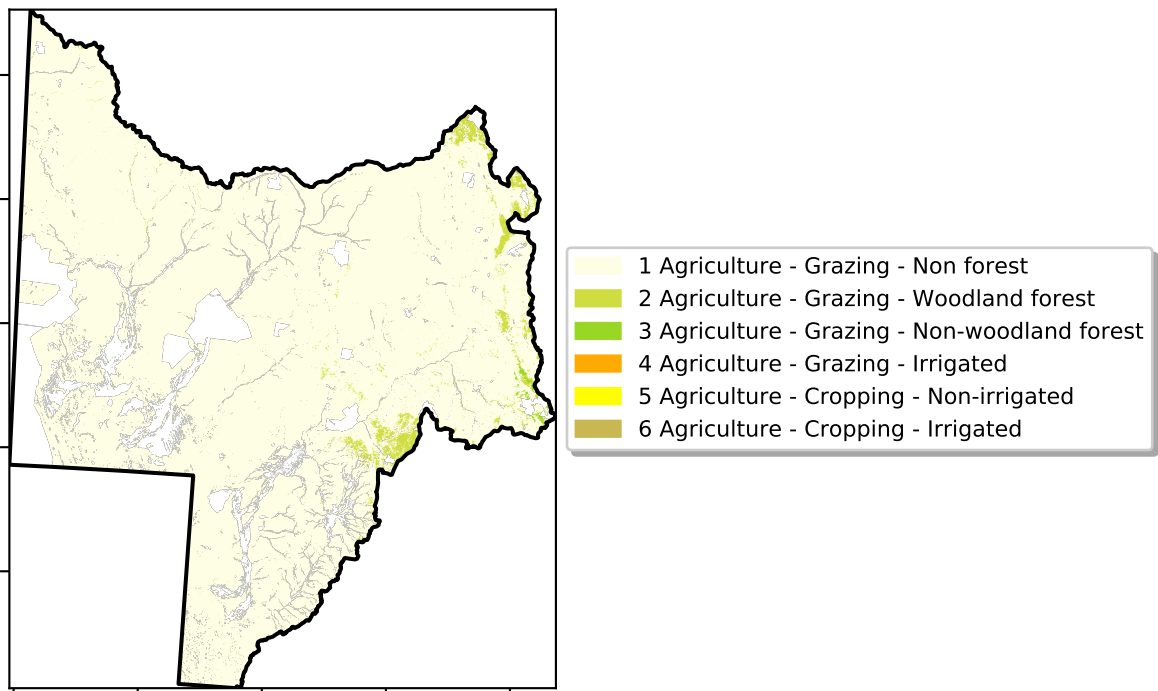
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



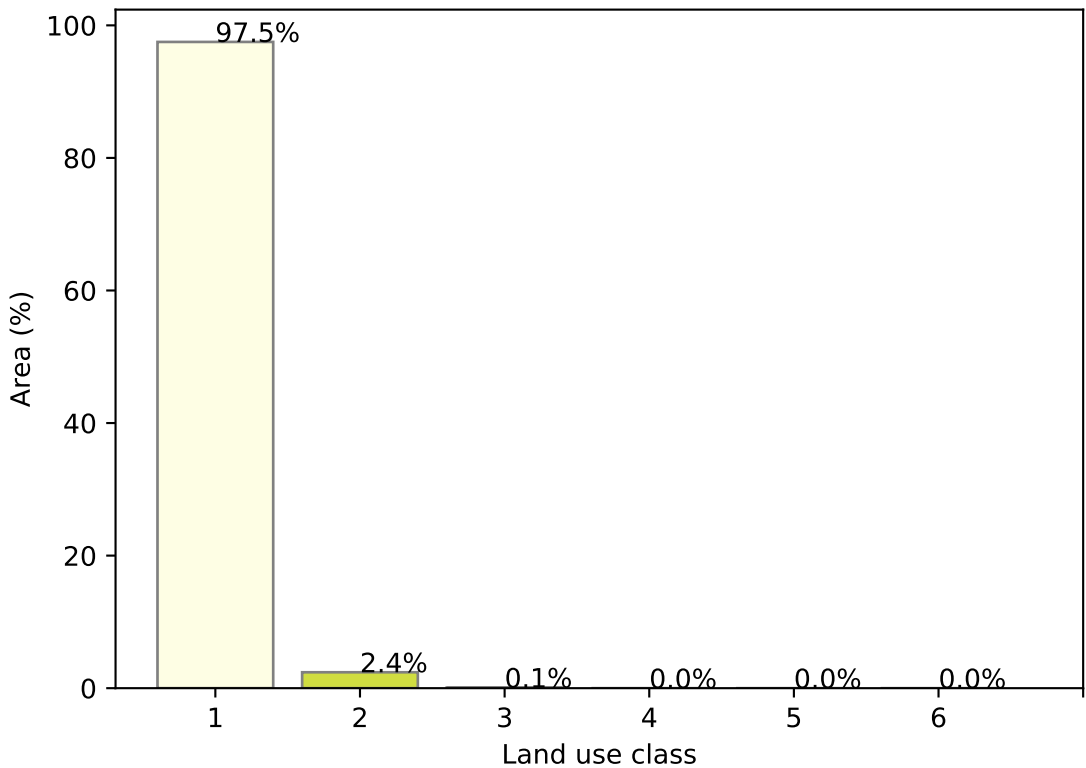
Agriculture

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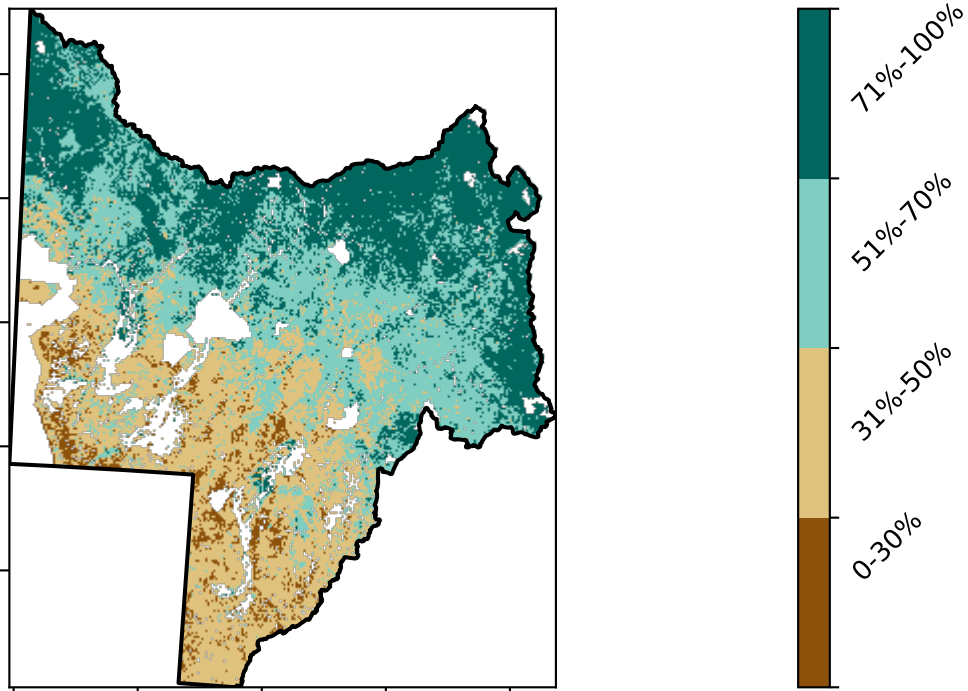
Land use and forest cover



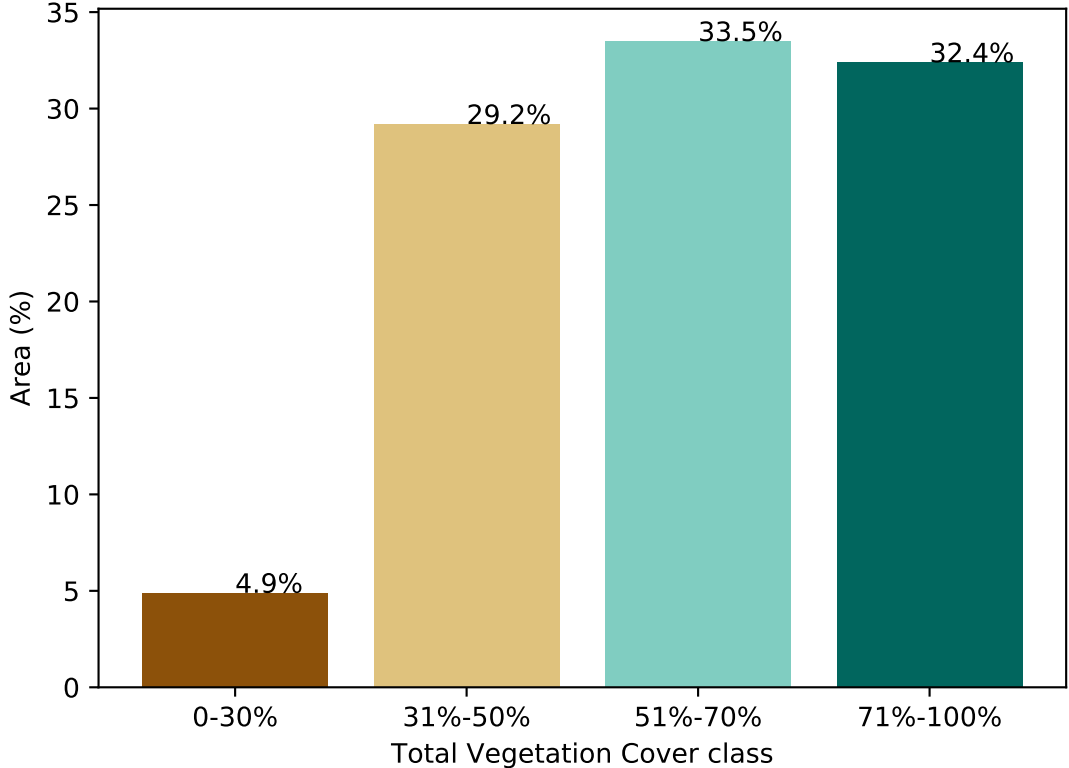
Proportion of each land class in area



Total Vegetation Cover [%]

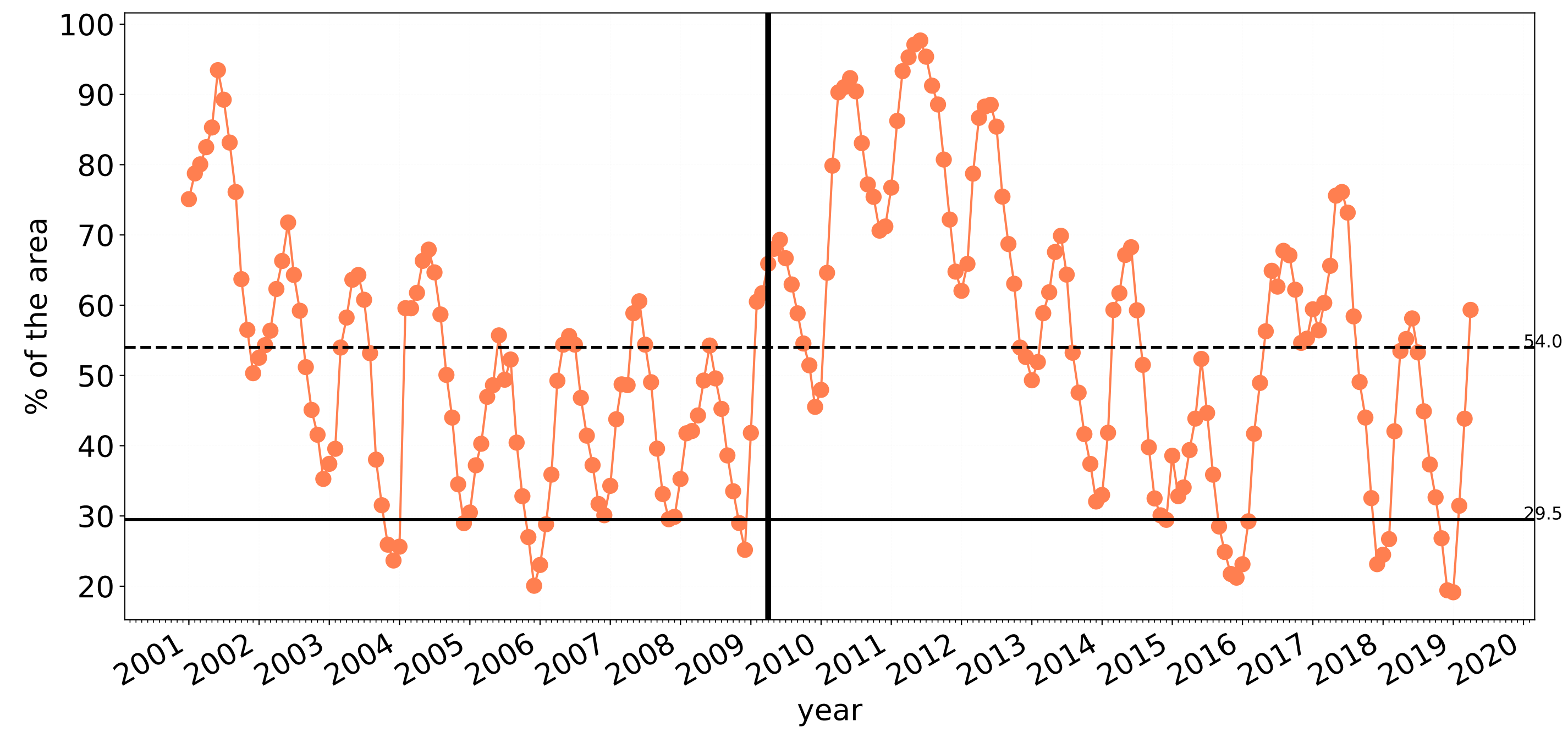


Proportion of vegetation cover class in area

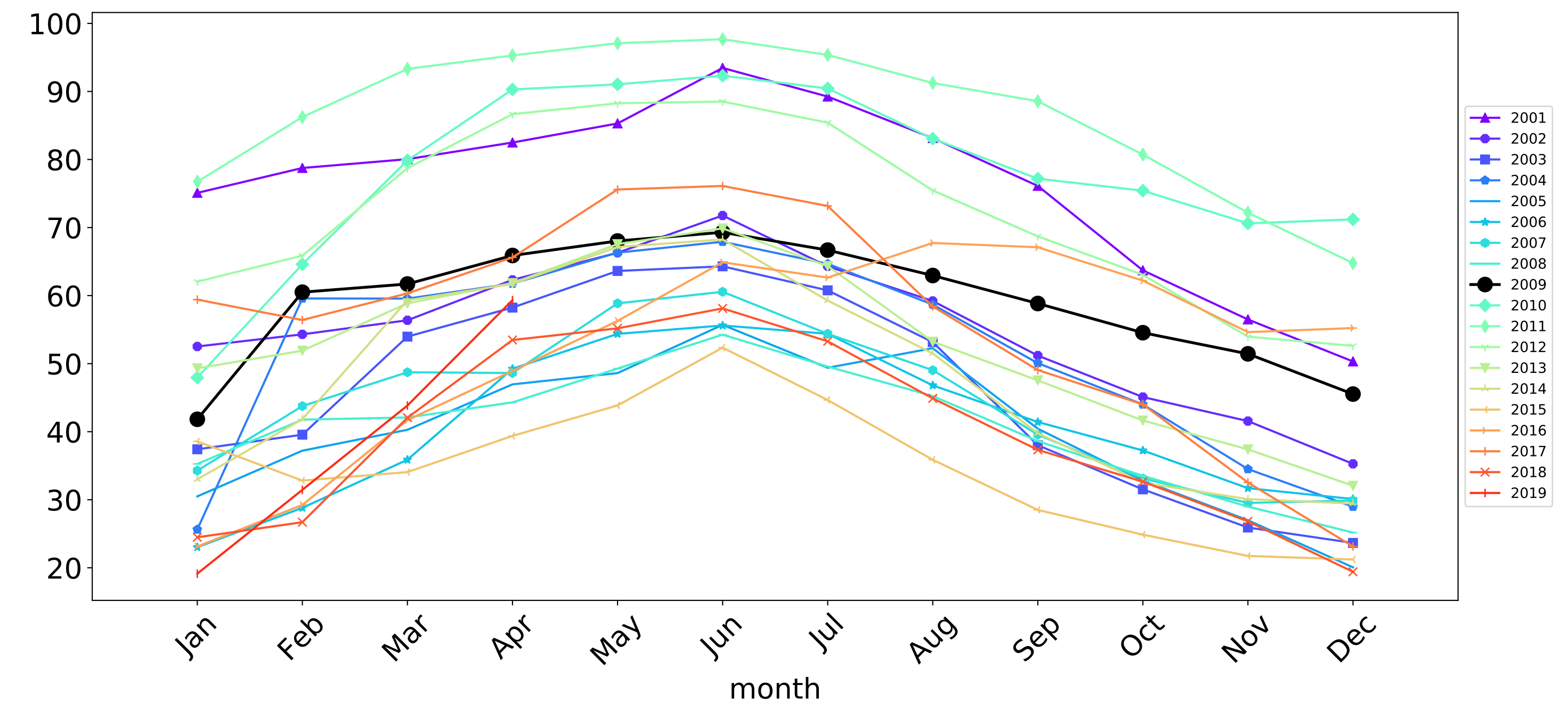


Agriculture timeseries

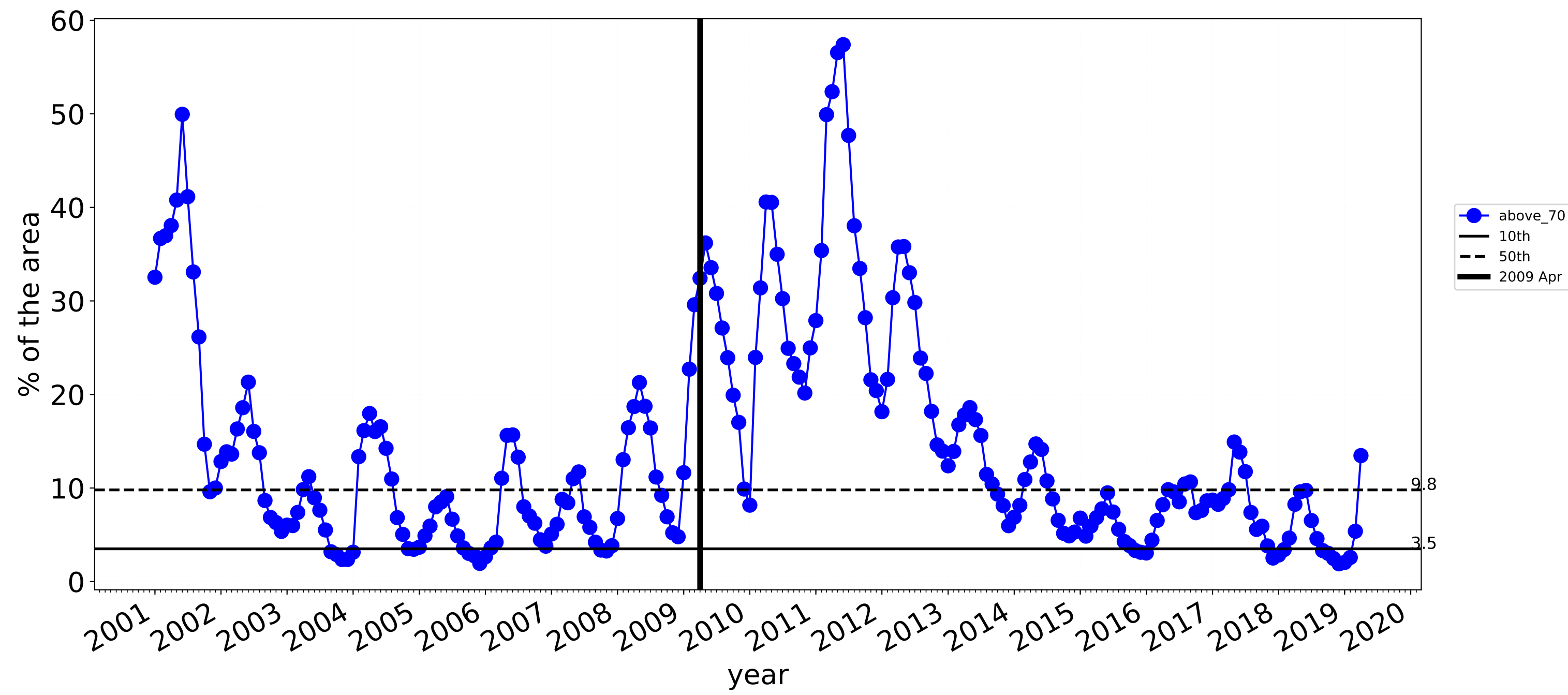
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



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



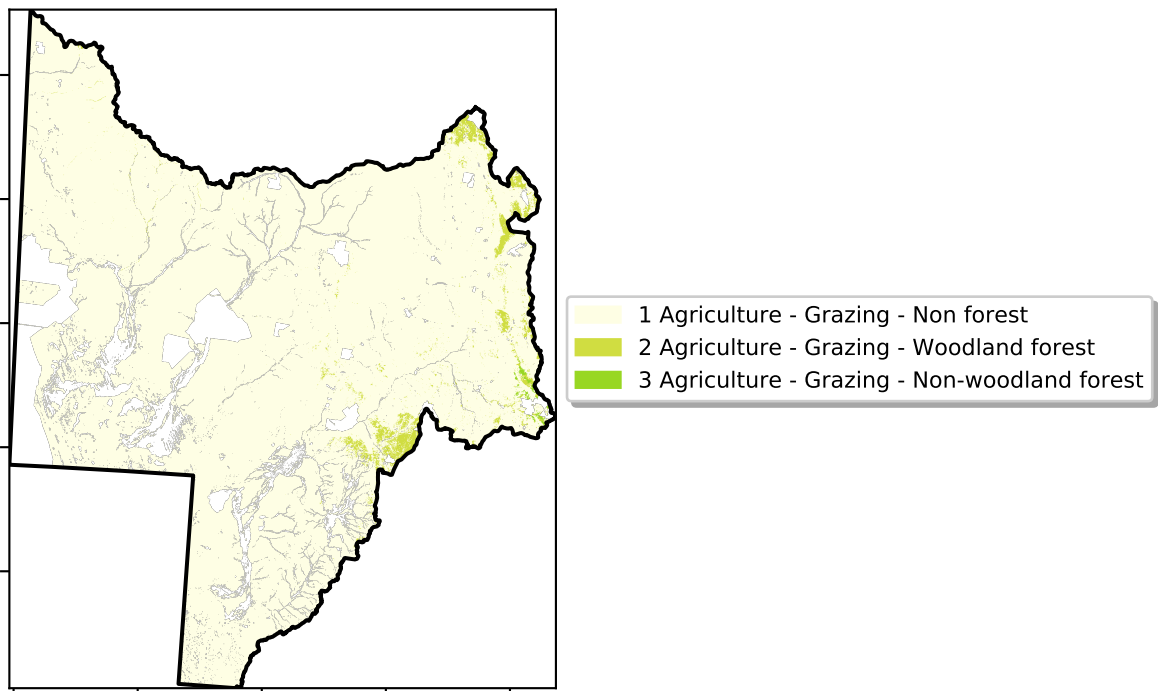
Proportion of the area protected from water erosion (Total Vegetation Cover > 70%)



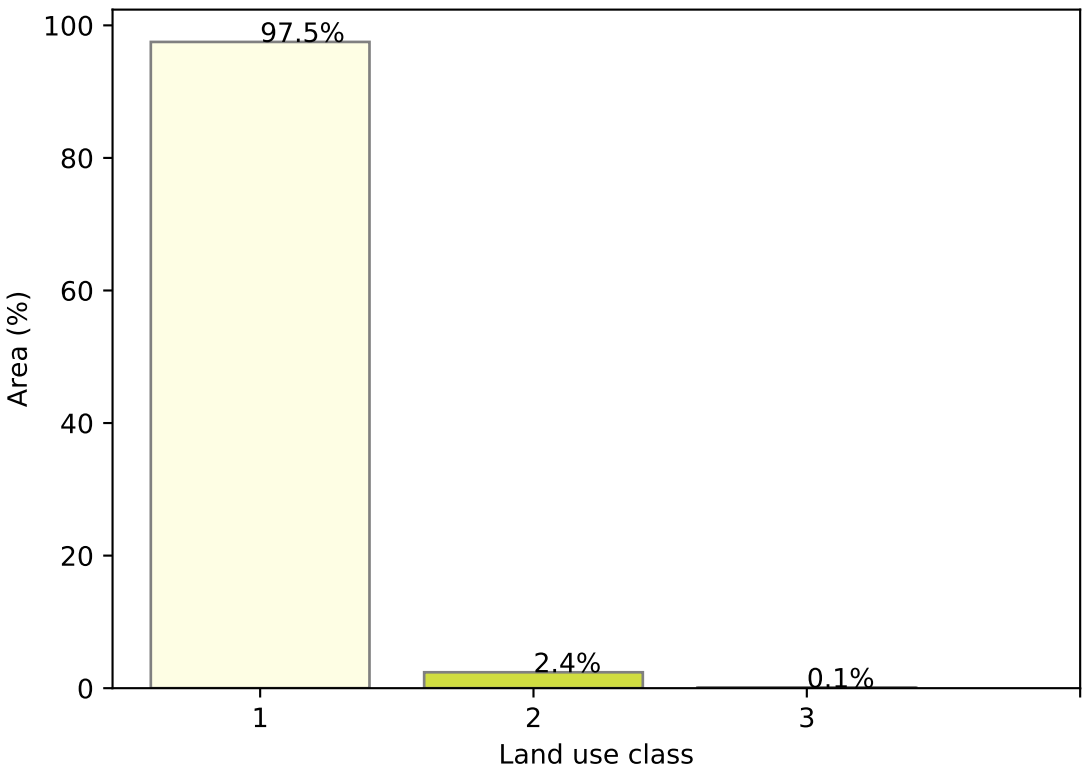
Grazing

Land use and forest cover

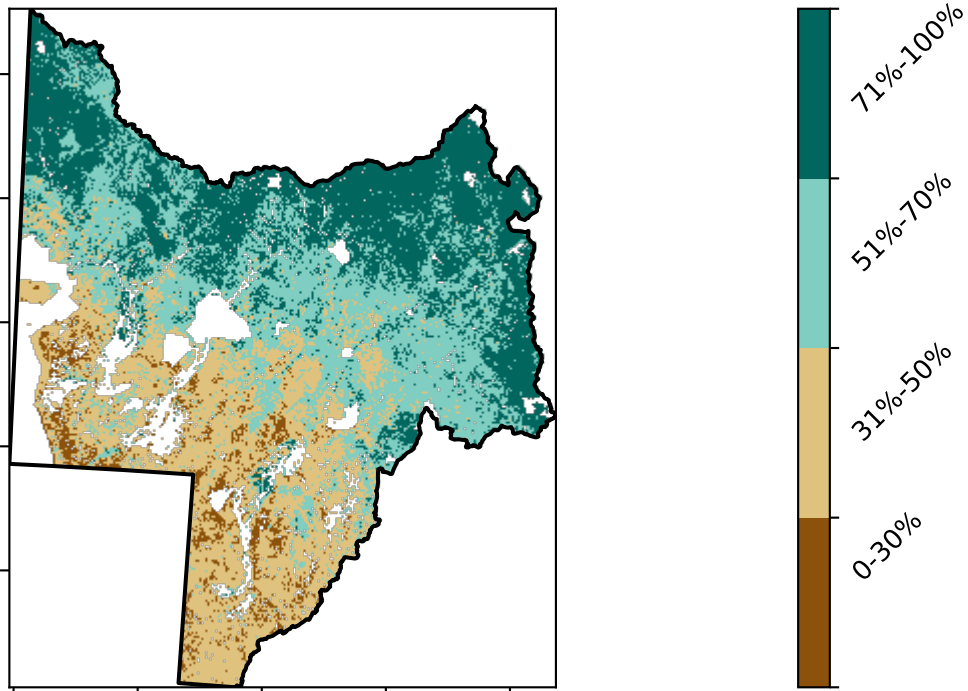
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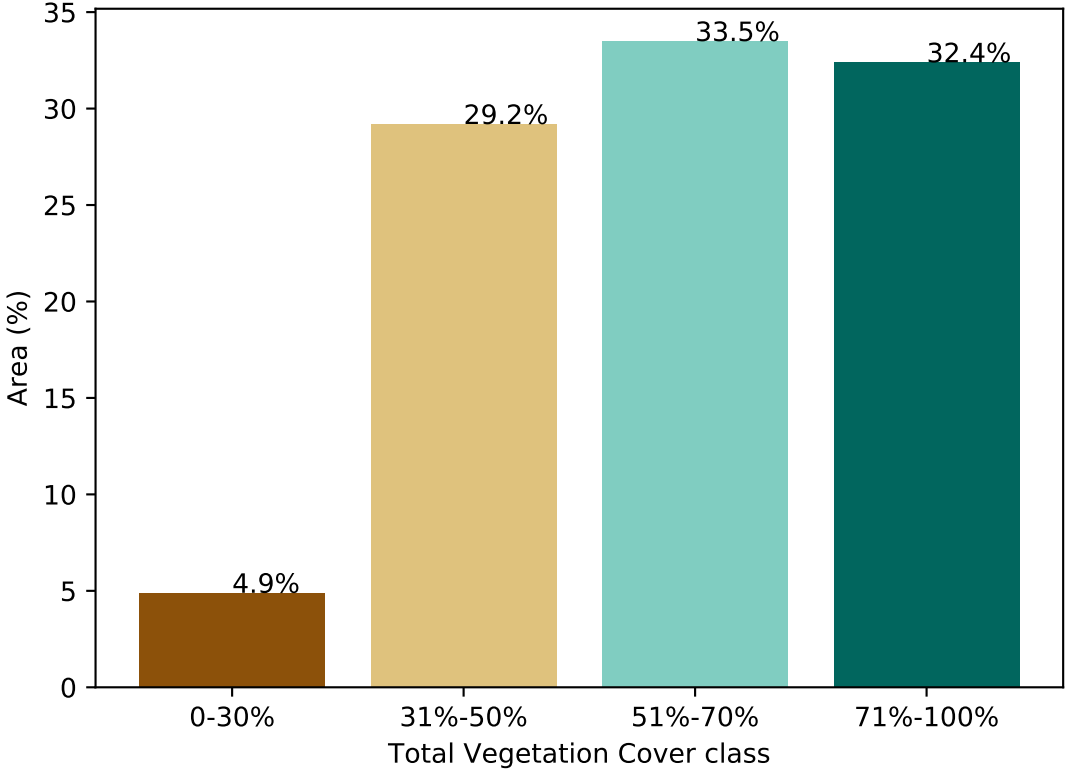
Proportion of each land class in area



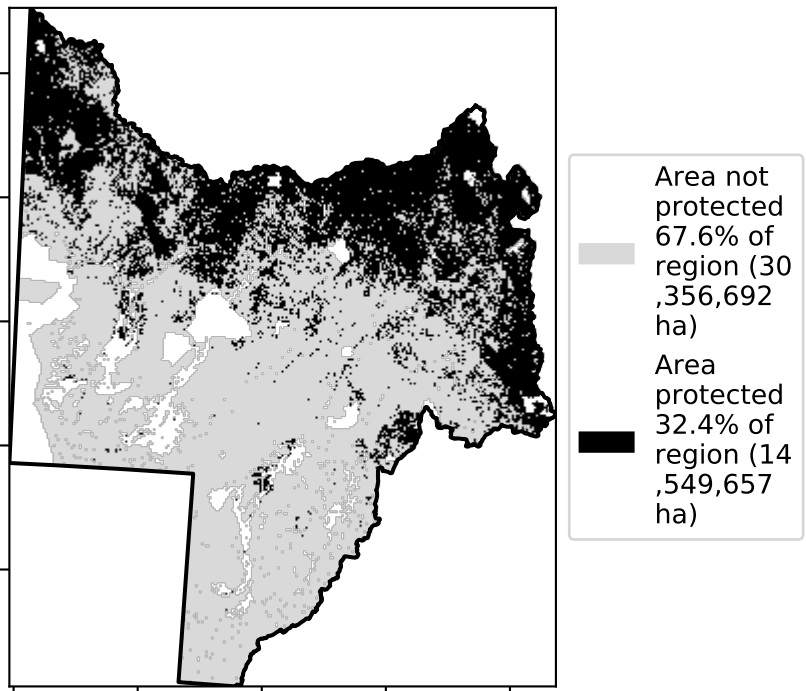
Total Vegetation Cover [%]



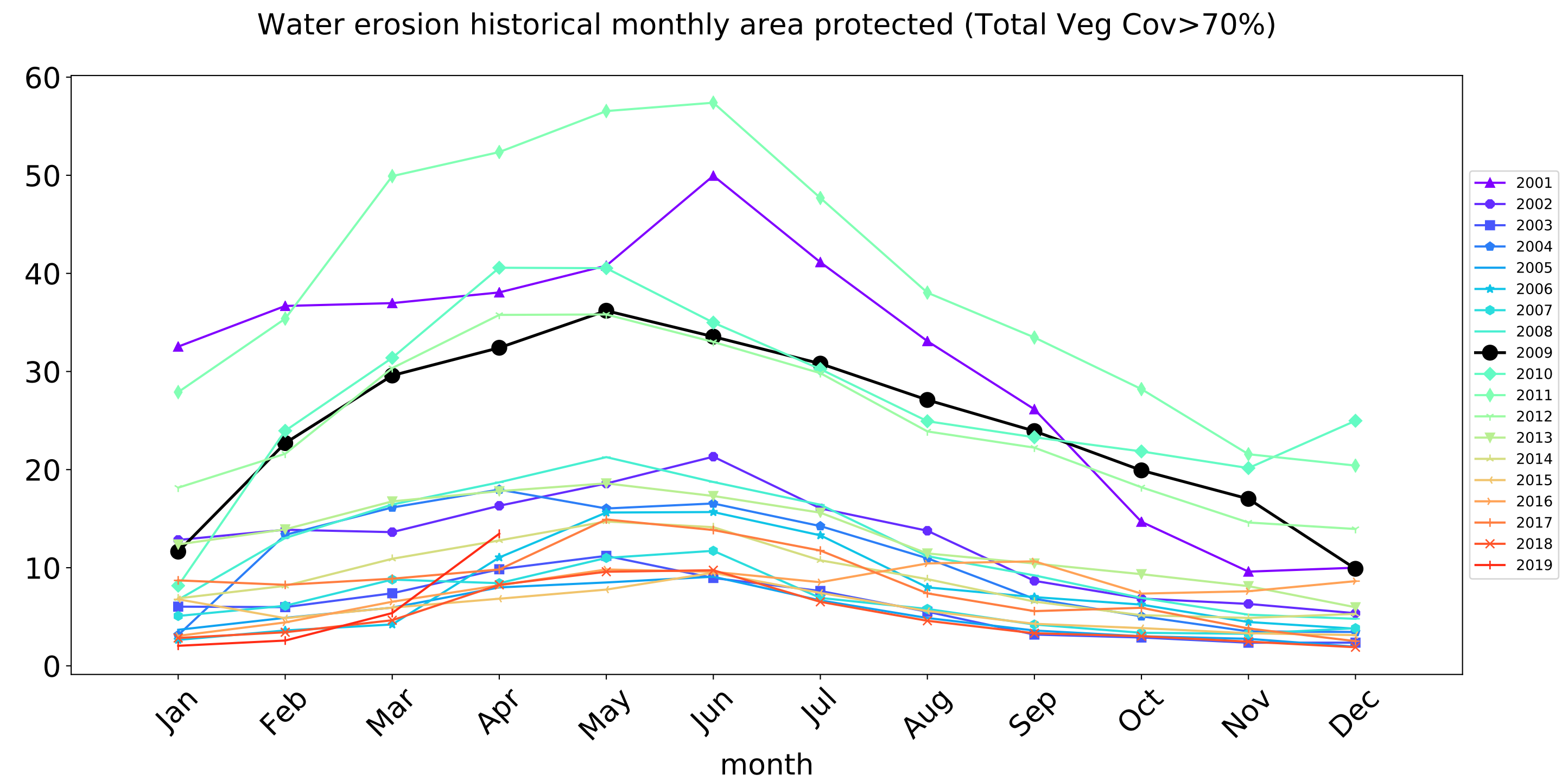
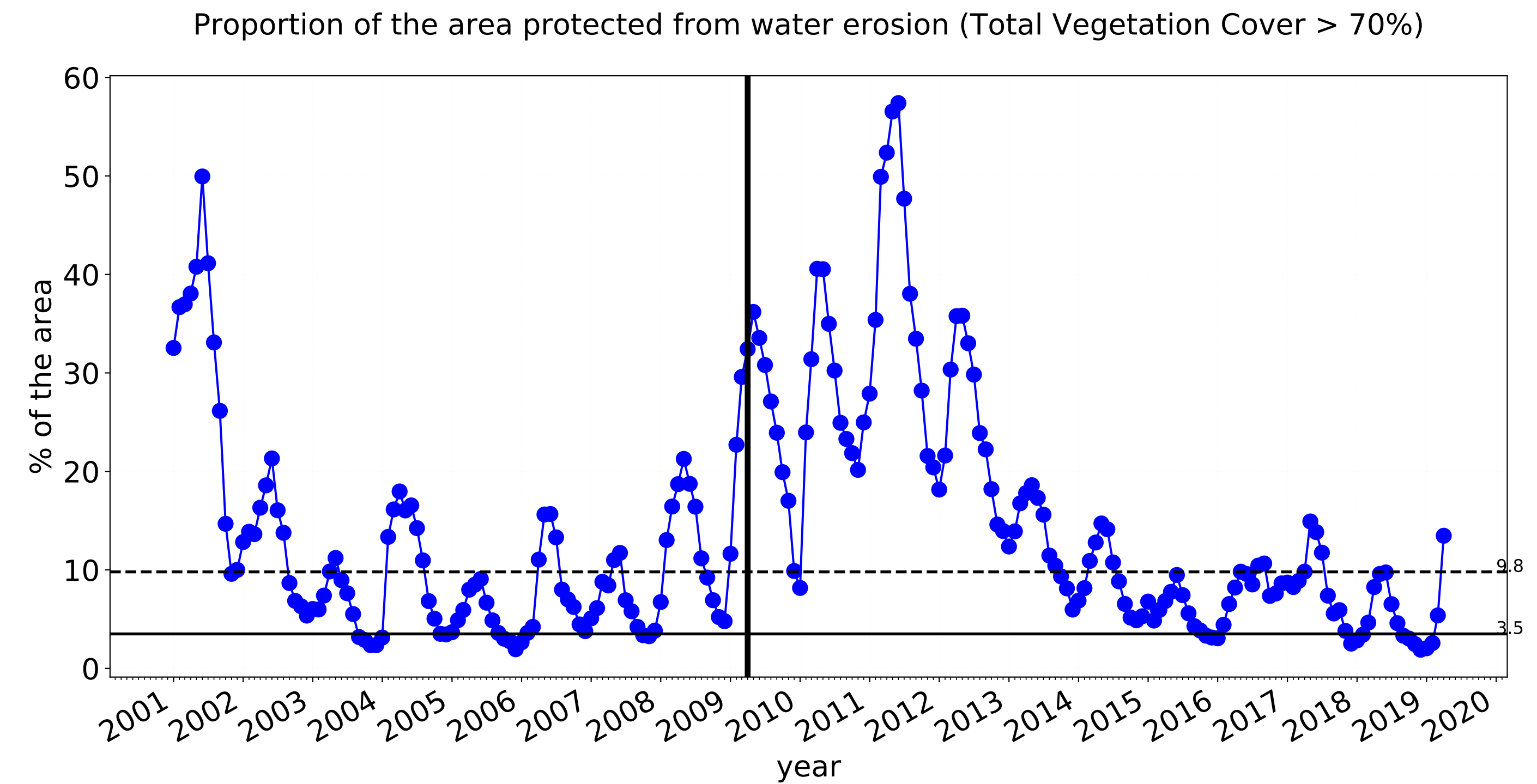
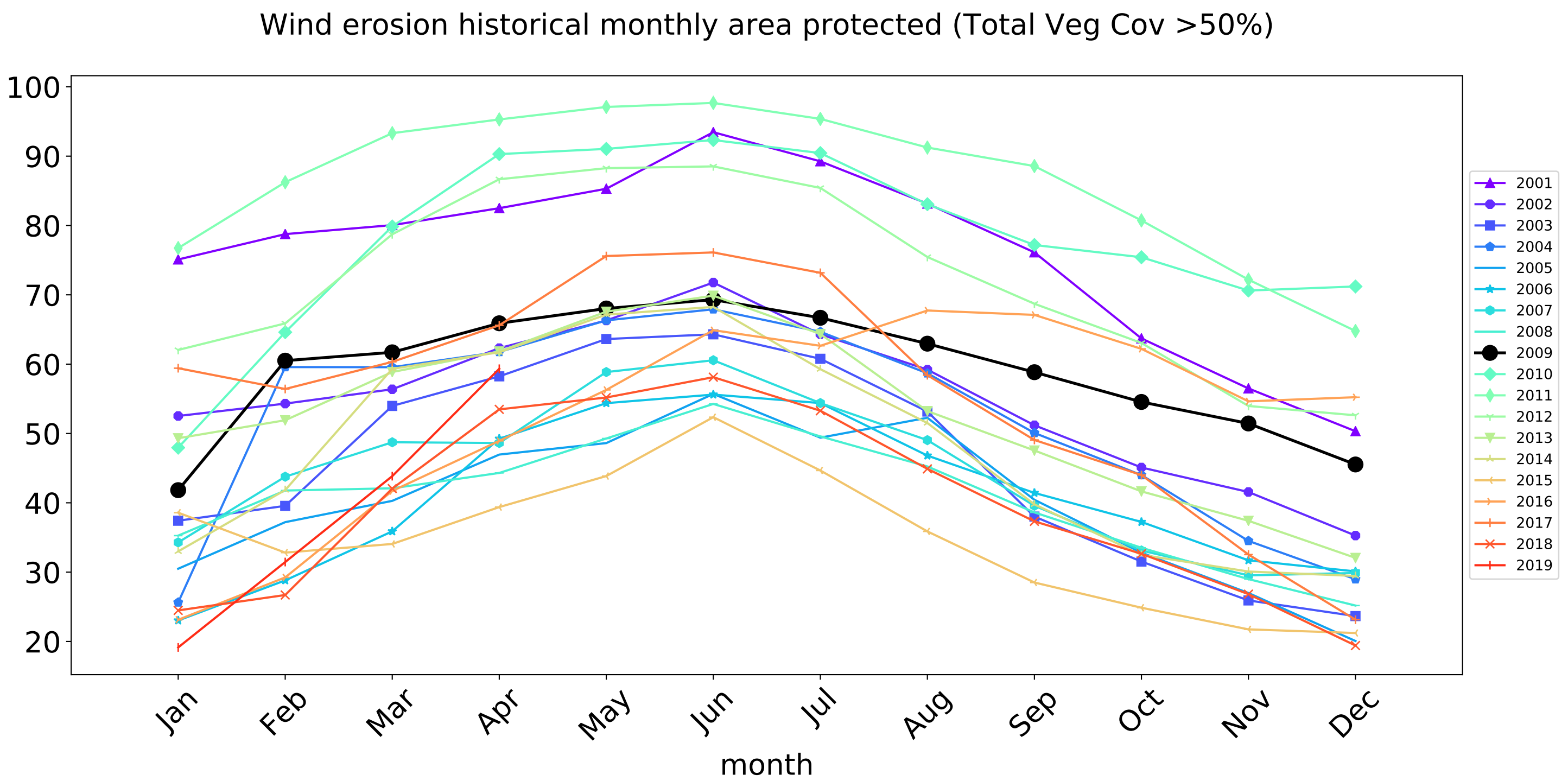
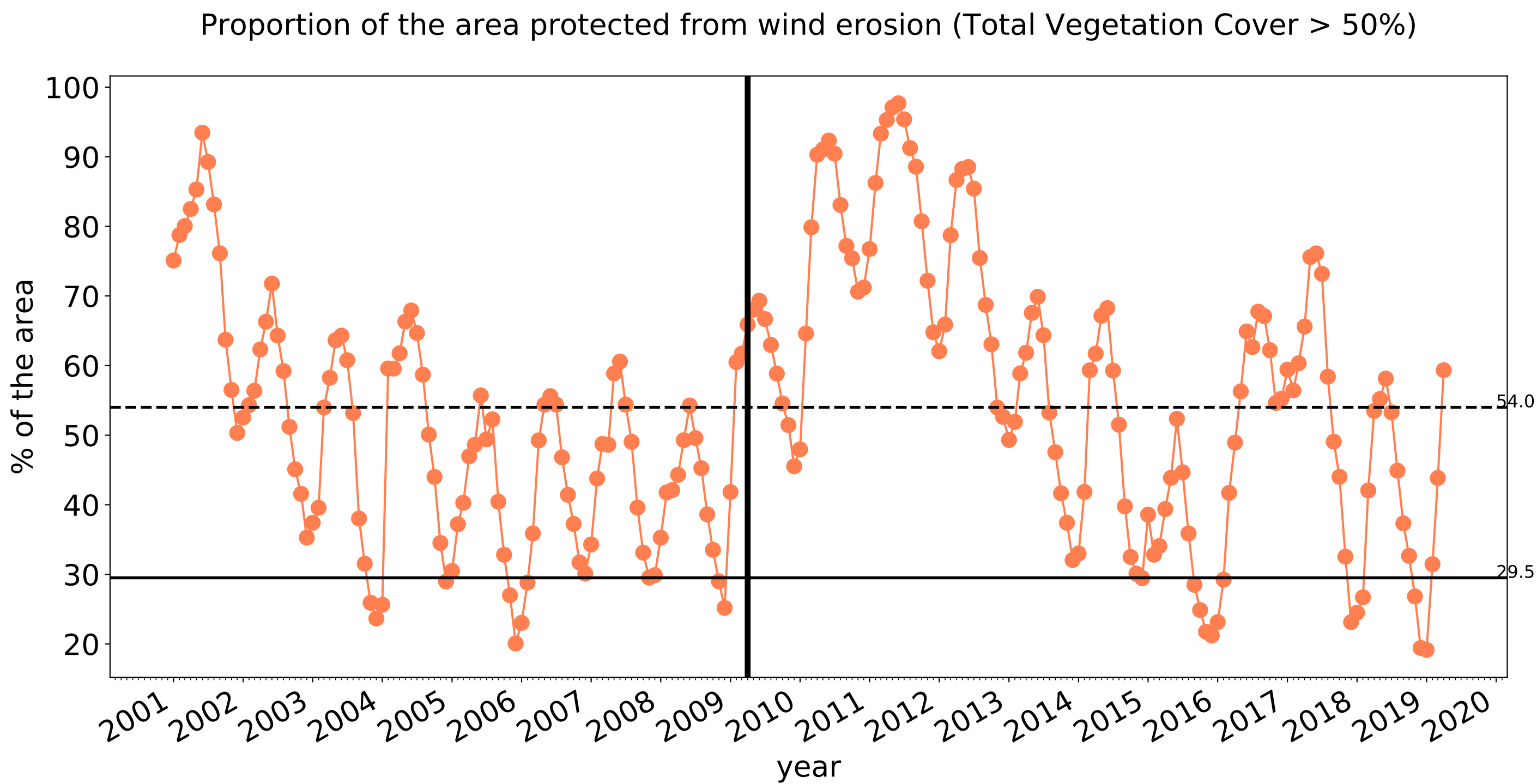
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)



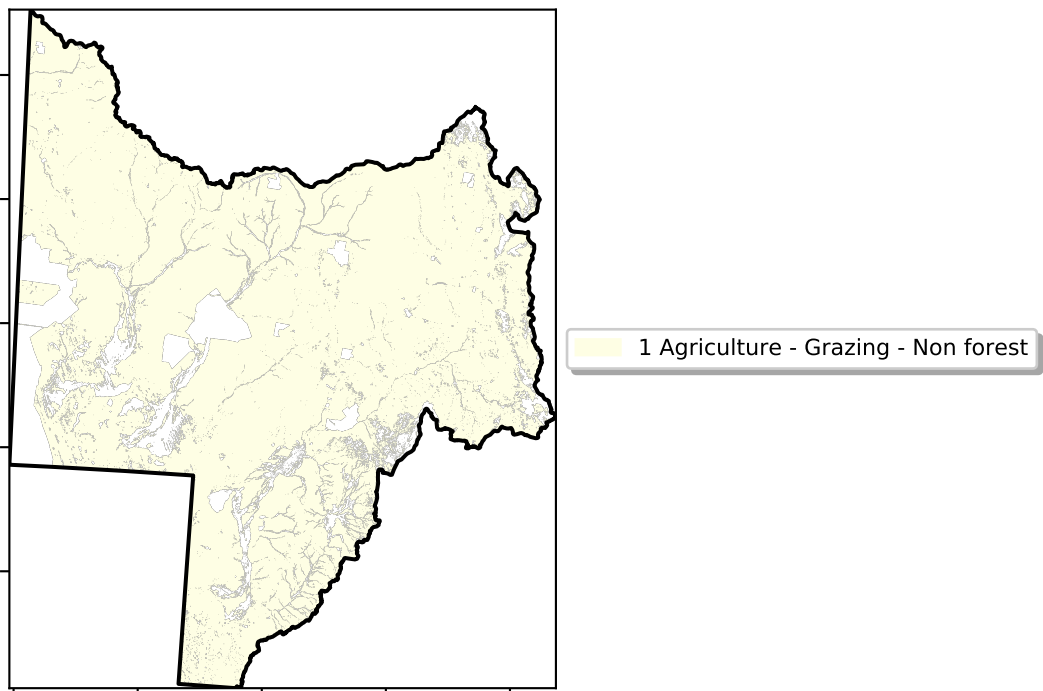
Grazing timeseries



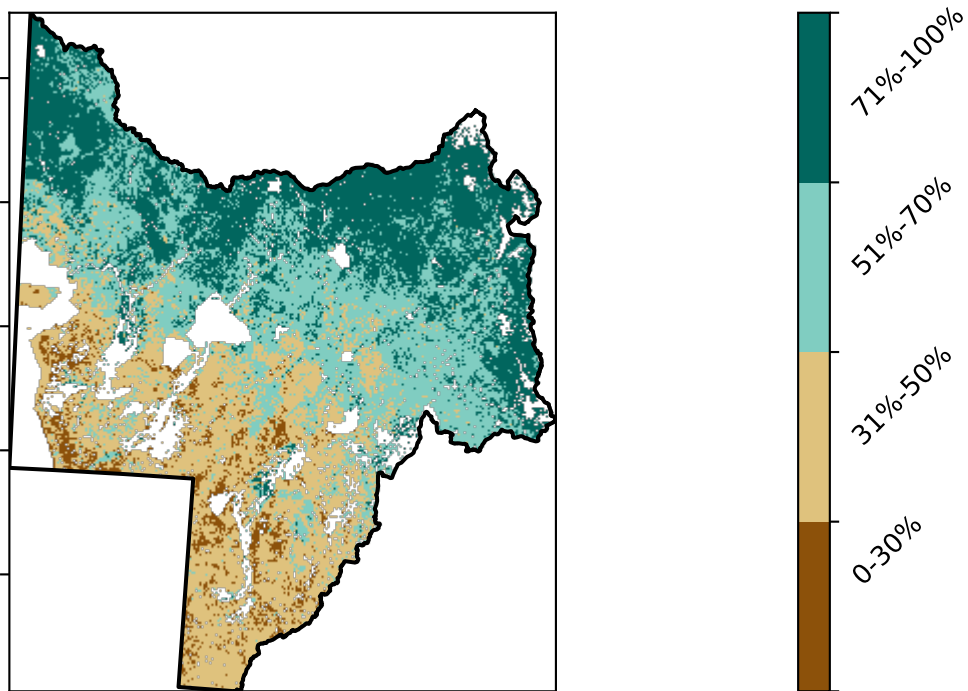
Grazing non forest

Land use and forest cover

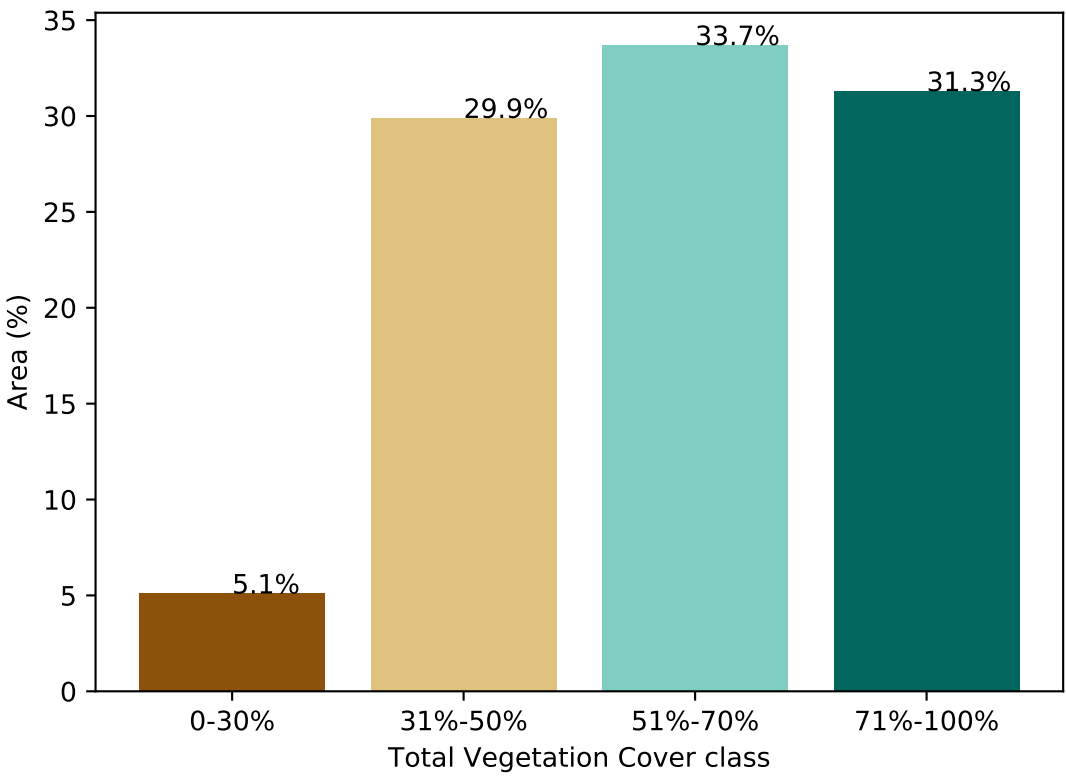
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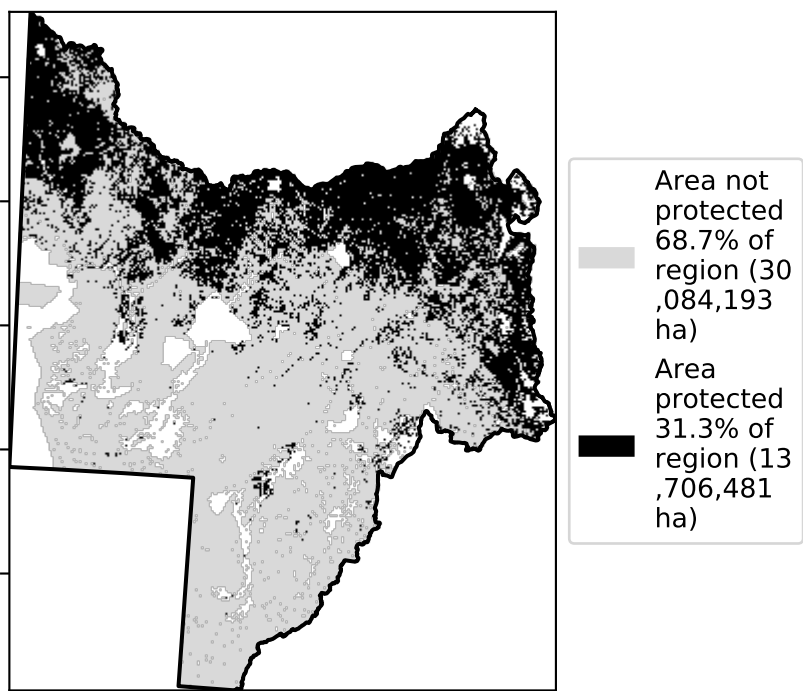
Total Vegetation Cover [%]



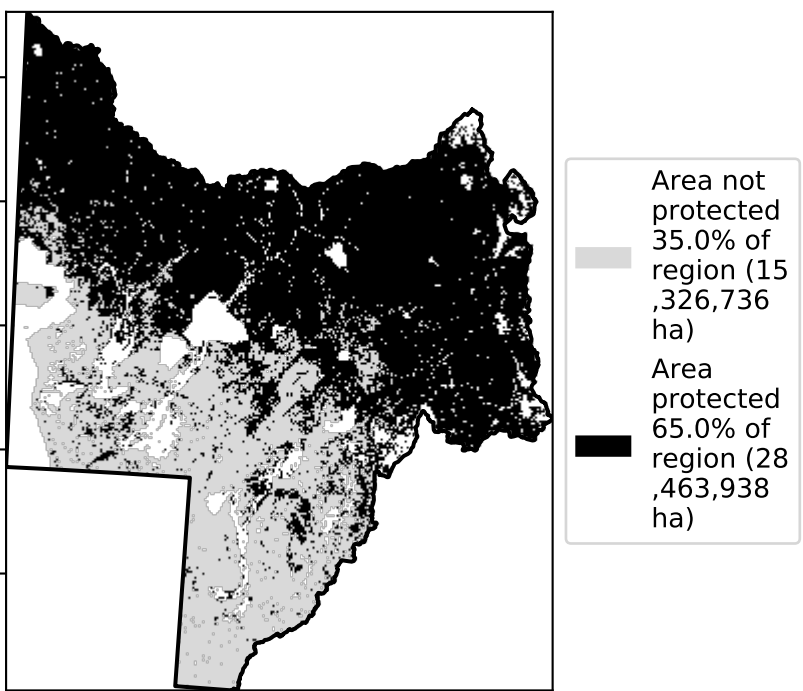
Proportion of vegetation cover class in area



% Area protected from water erosion (>70%)

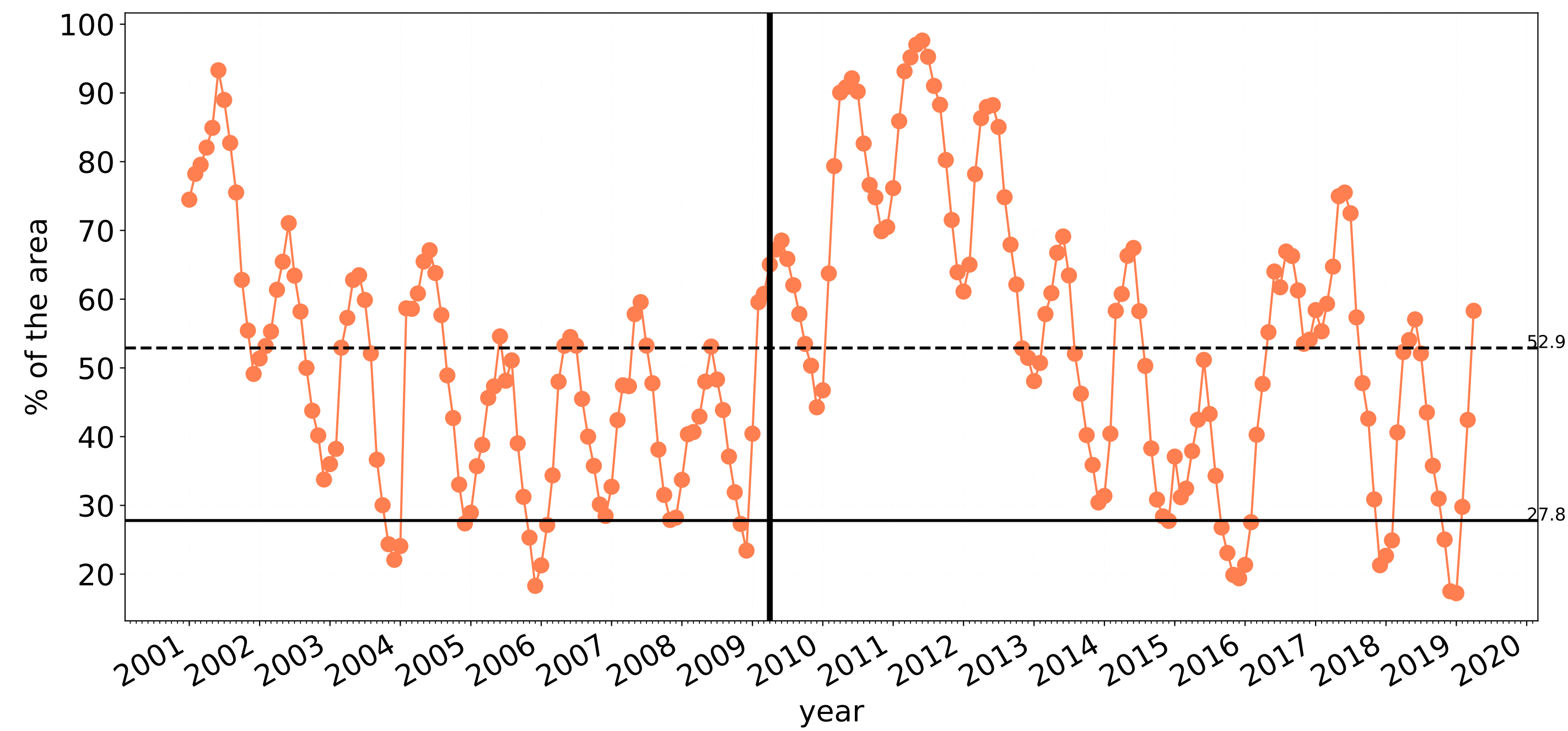


% Area protected from wind erosion (>50%)

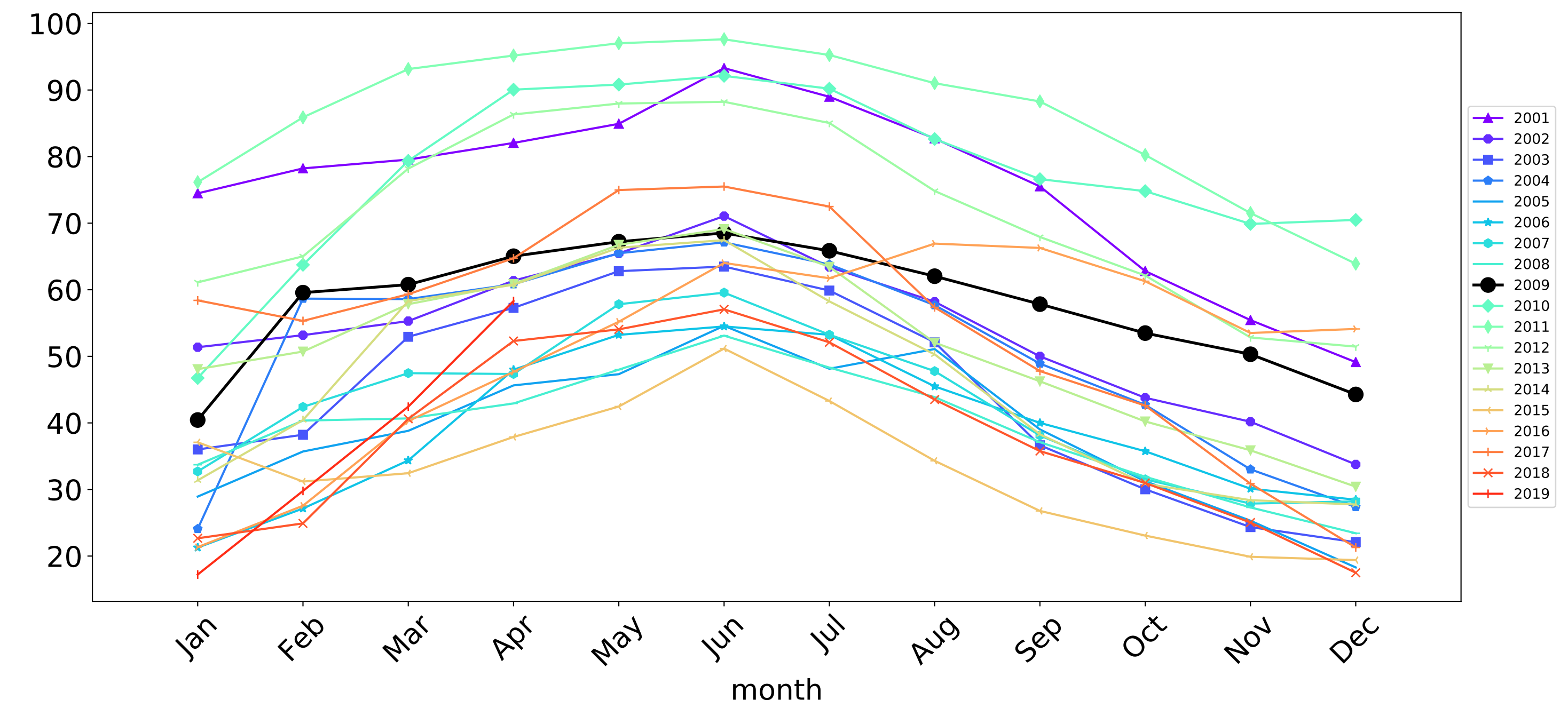


Grazing non forest timeseries

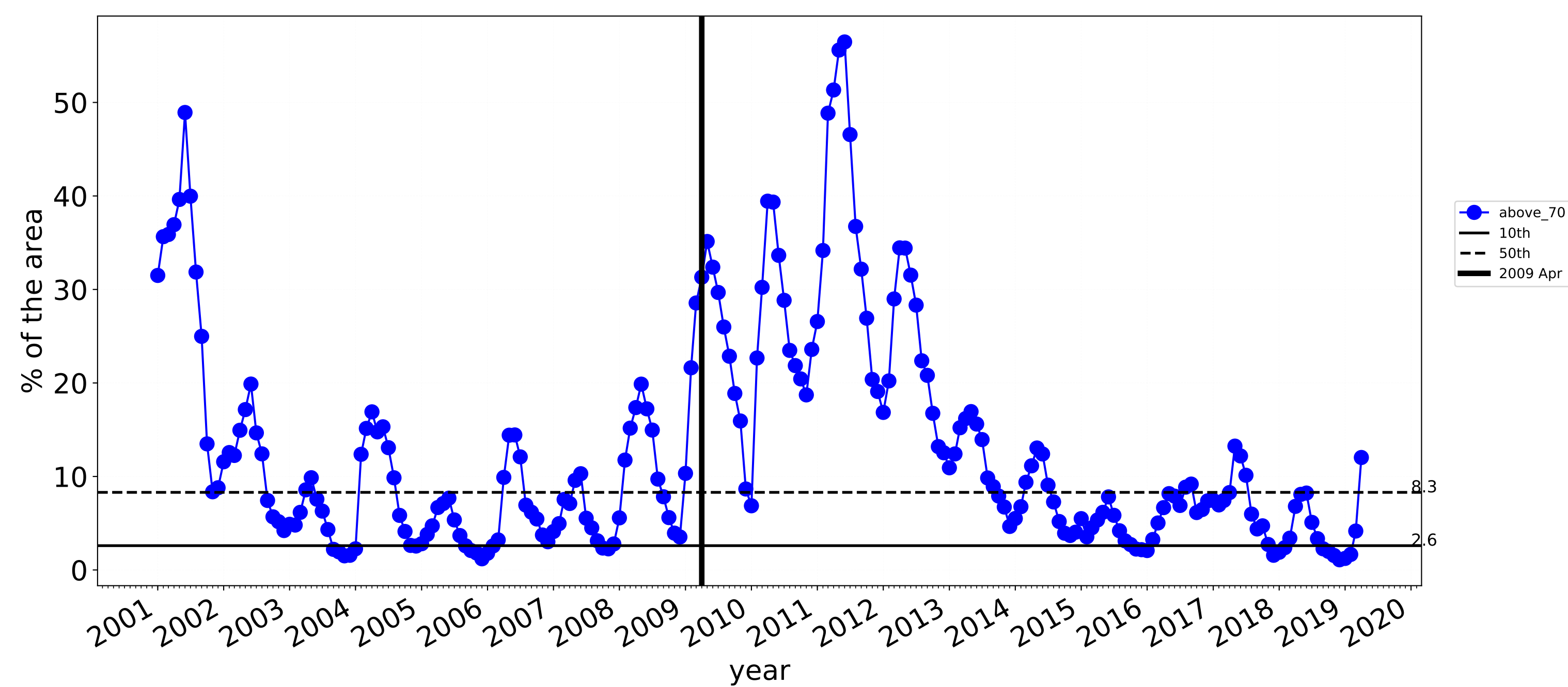
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



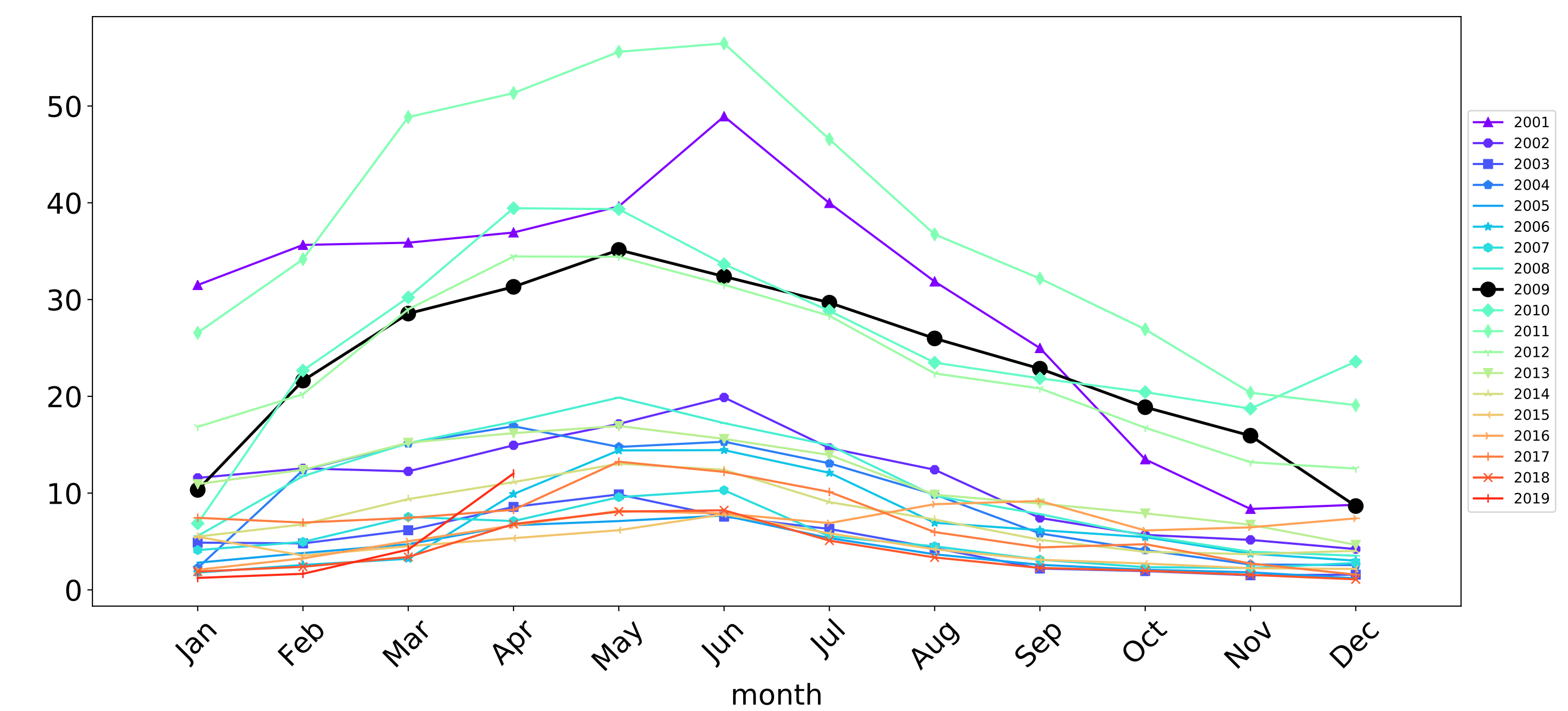
Wind erosion historical monthly area protected (Total Veg Cov >50%)



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

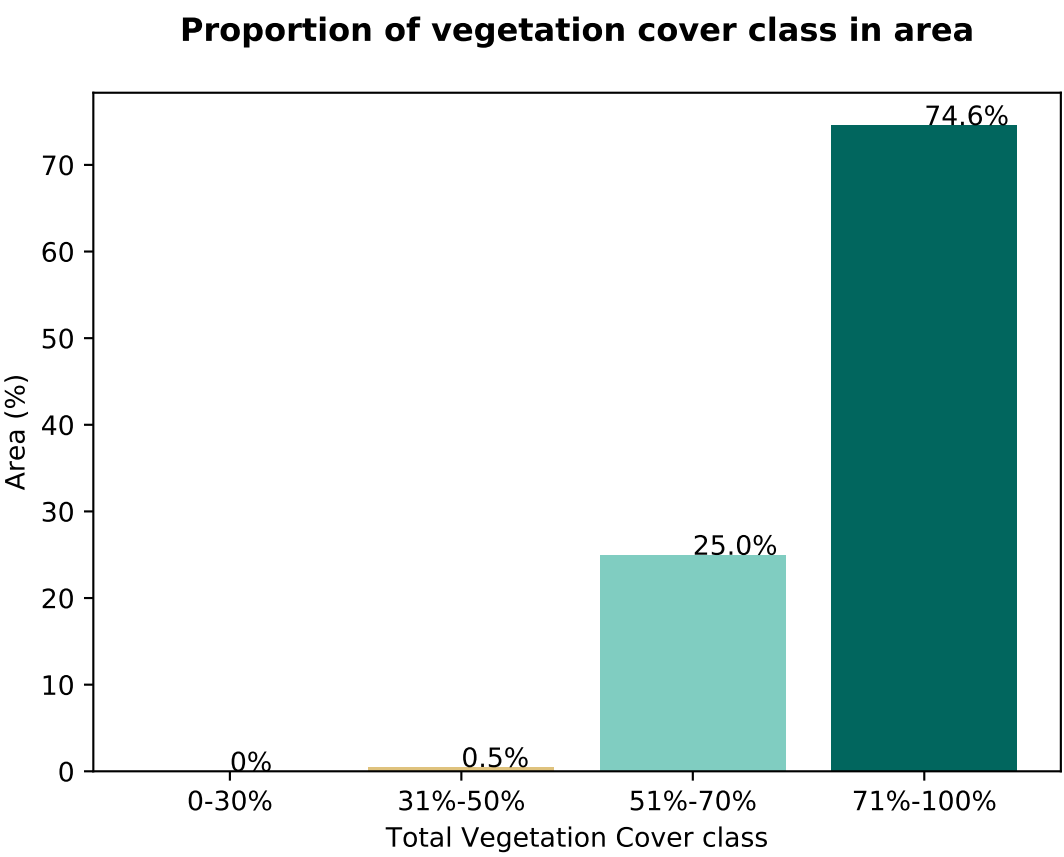
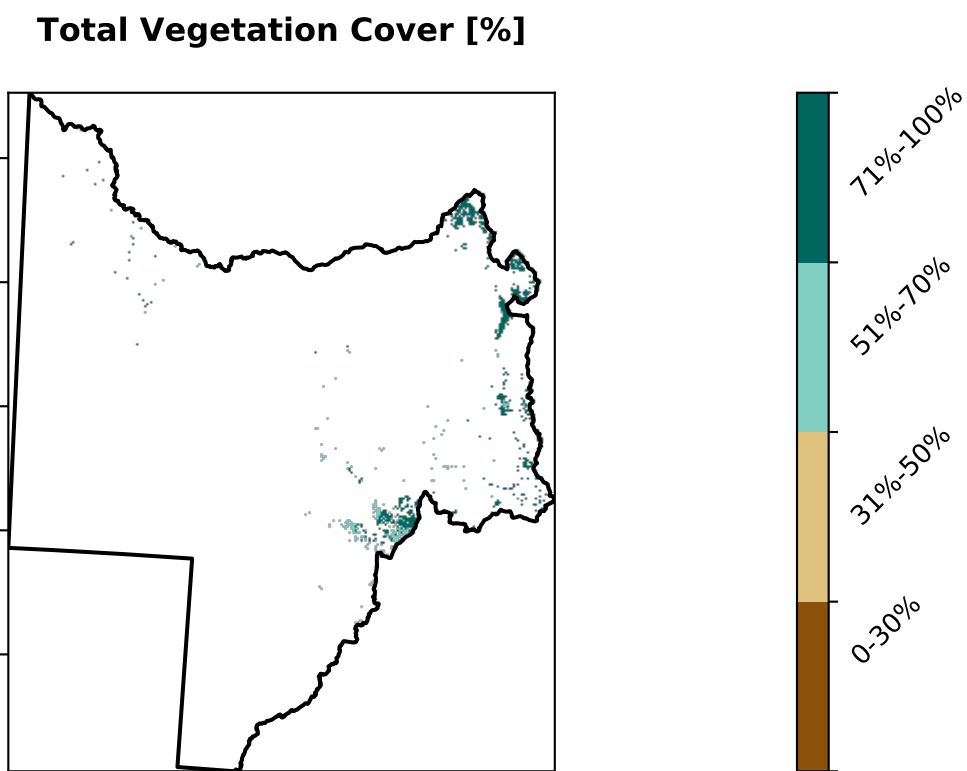
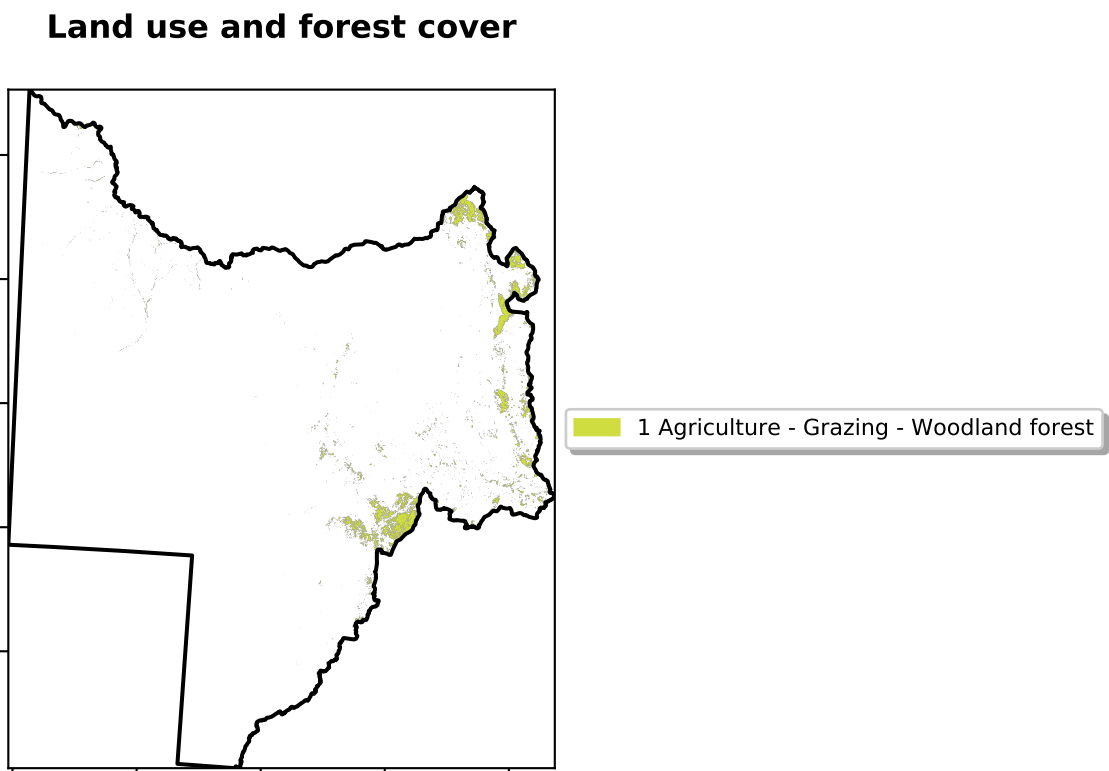


Water erosion historical monthly area protected (Total Veg Cov>70%)

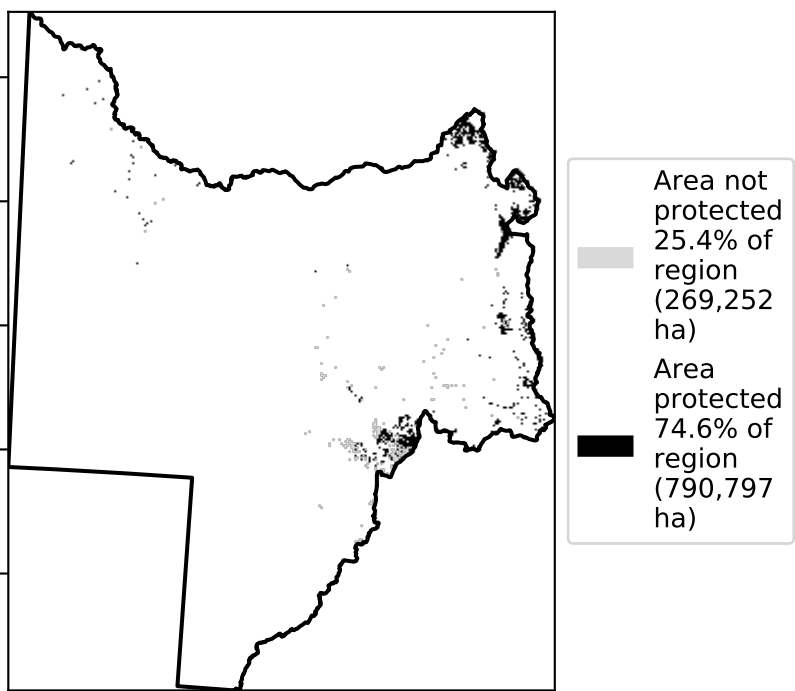


Grazing Woodland forest

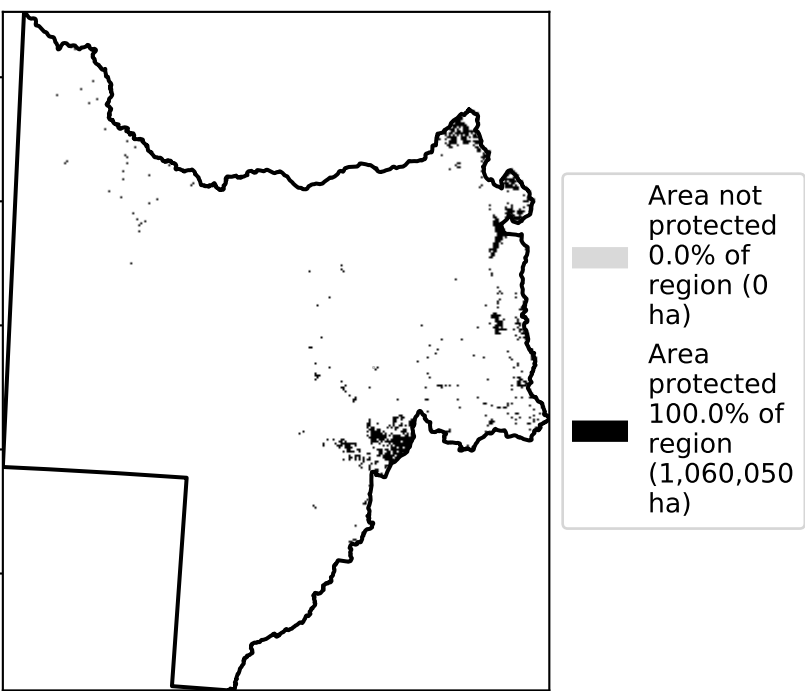
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% Area protected from water erosion (>70%)

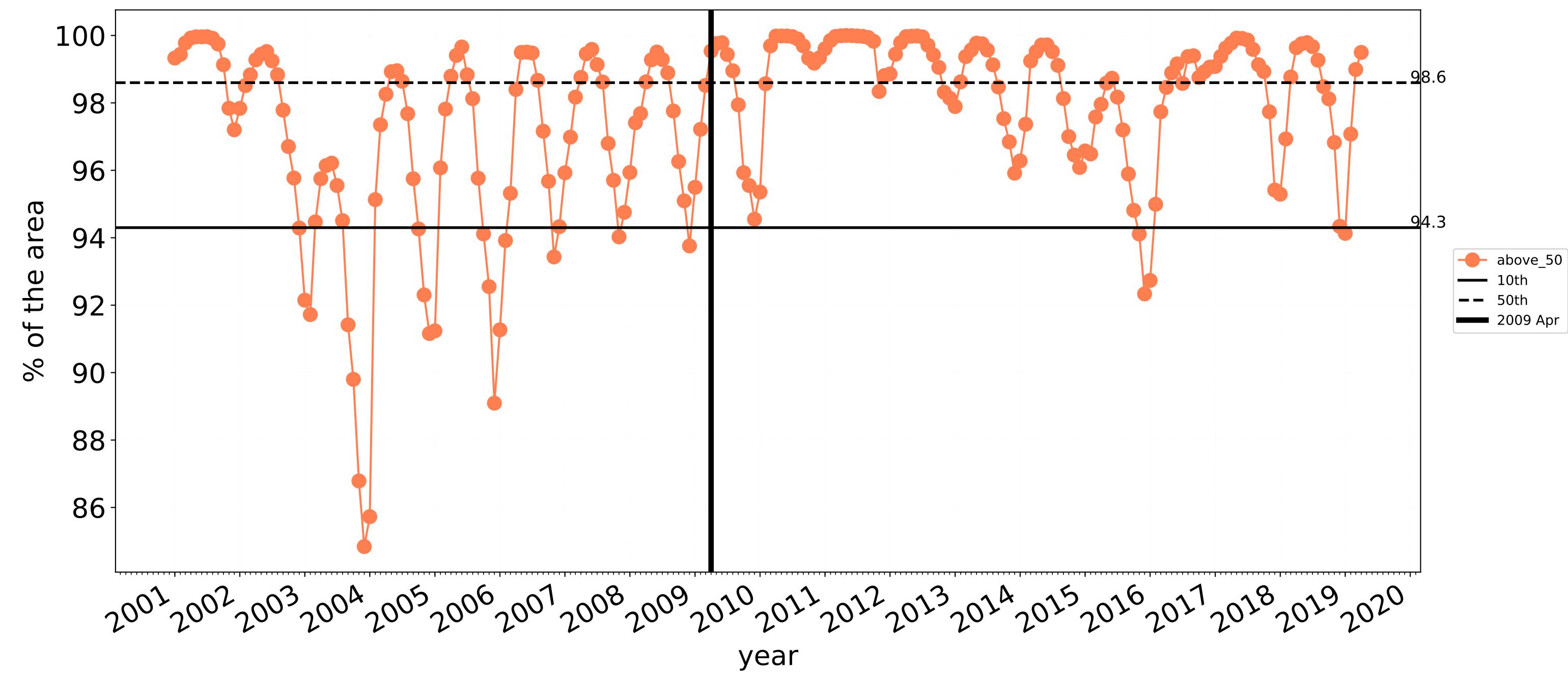


% Area protected from wind erosion (>50%)

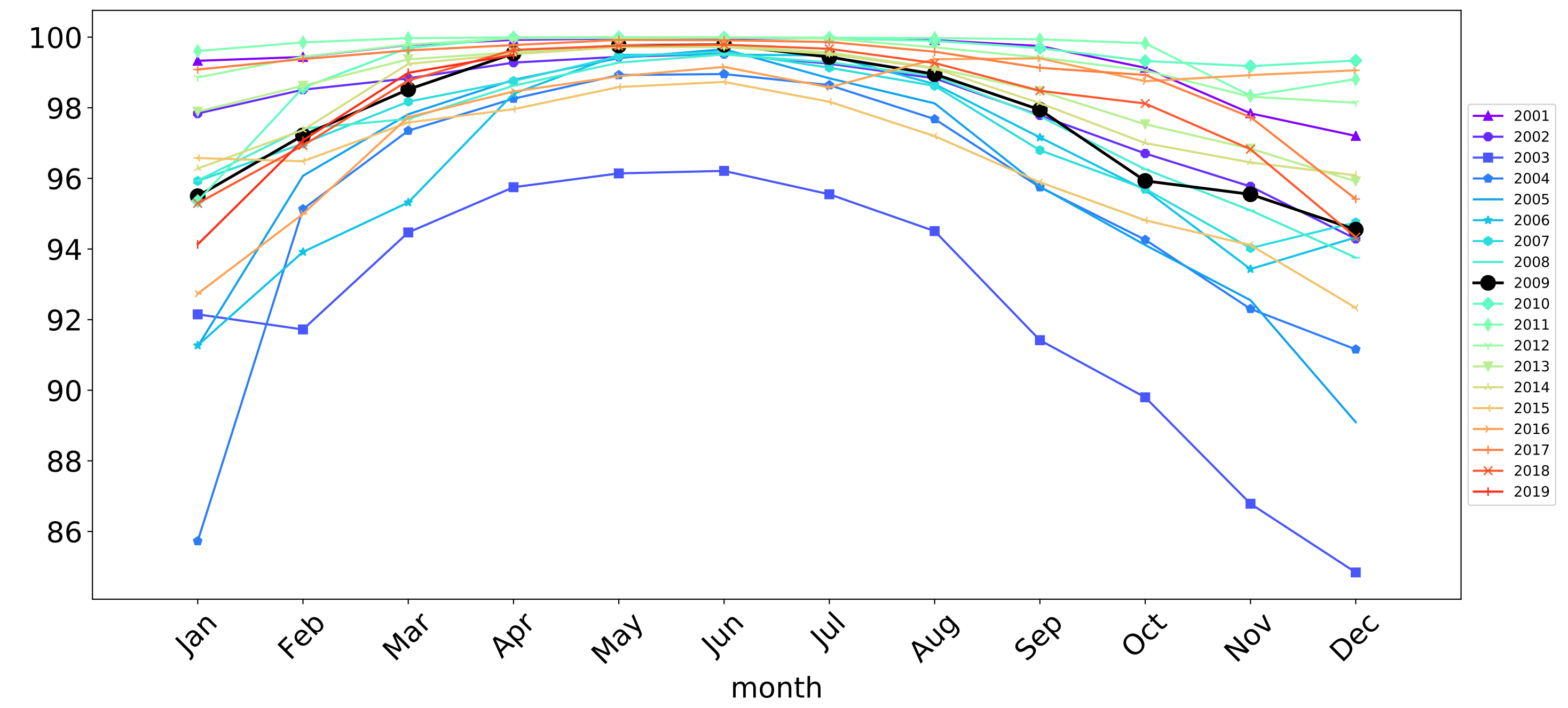


Grazing Woodland forest timeseries

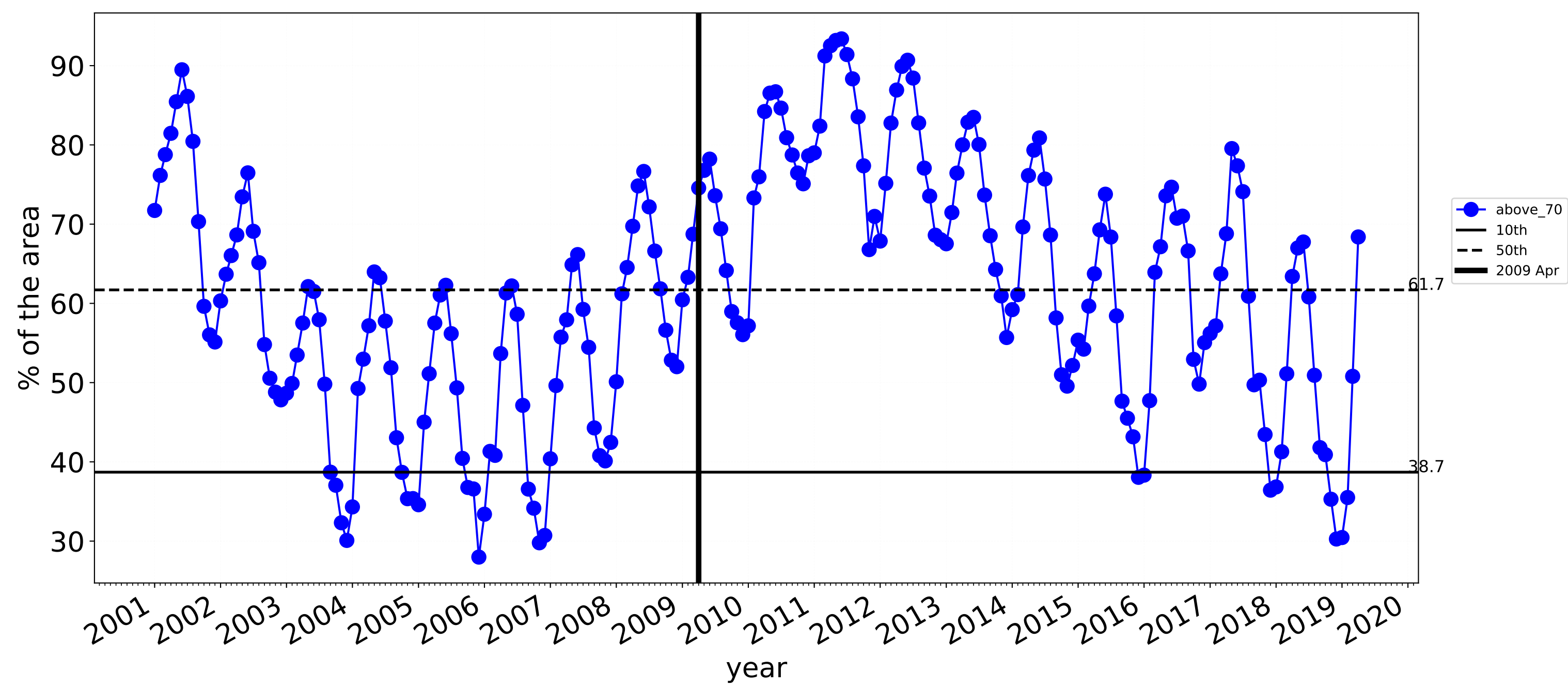
Proportion of the area protected from wind erosion (Total Vegetation Cover > 50%)



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



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



Desert Channels (50,984,800 ha and no data 41,921 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	50,984,800	93.9% 47,856,084	64.1% 32,674,539	31.3% 15,960,917	13.1% 6,699,545	2.9% 1,462,390	1.1% 535,620
Conservation and natural environments	3,107,675	77.9% 2,419,450	35.4% 1,098,700	14.6% 453,100	7.9% 246,475	1.9% 57,550	0.2% 6,750
Conservation and natural environments non forest	2,934,650	76.5% 2,246,425	31.5% 925,725	9.8% 286,175	3.7% 108,175	0.8% 22,175	0.2% 5,950
Agriculture	44,907,275	95.1% 42,689,350	65.9% 29,591,525	32.4% 14,558,925	13.4% 5,997,125	2.9% 1,281,525	1.0% 469,950
Grazing	44,906,350	95.1% 42,688,425	65.9% 29,590,600	32.4% 14,558,425	13.4% 5,997,025	2.9% 1,281,525	1.0% 469,950
Grazing non forest	43,790,675	9					