Appendix B Species forecasts

How to read the species forecasts

Forecast of landscape capacity

This is the rating of the ability of the species to persist in the landscape into the future considering predicted climate change between 2000 and 2070, existing habitat impacts such as clearing as recorded at 2000, and the movement ability of the population.

Good		< 10% lost between 2000 and 2070 and > 10% of 1750 remaining by 2070
Moderate		> 10% lost between 2000 and 2070 or < 10% of 1750 remaining by 2070
Poor		> 30% lost between 2000 and 2070 or < 5% of 1750 remaining by 2070

Total landscape capacity remaining over time

Landscape capacity is the amount of useable habitat for the species population. High landscape capacity means a location is of suitable type and condition, and has sufficient connectivity tp neighbouring habitat to support a viable population. This table shows the changes in landscape capacity for a species population modelled against two baselines; pre-industrial levels of 1750 and 2000, the year NARCliM climate projections began. It demonstrates the predicted impacts of climate change from the perspective of total capacity lost (1750 and capacity lost after land clearing (2000). NB There has been significant further clearing post 2000.

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	xxx%	xxx%	xxx%	xxx%
Landscape capacity from 2000	xxx%	xxx%	xxx%	xxx%

Predicted range

This is a short summary of the nature of geographic shifts landscape capacity in response to forecast climate change between 2000 to 2070.

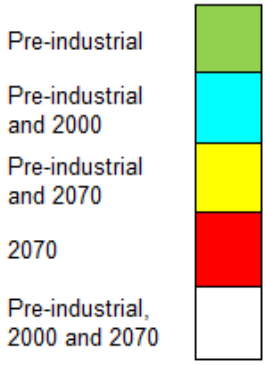
Species landscape characteristics

Characteristic	Definition
Species day to day movement ability	How far a species will generally move in its home territory in a single day to seek food
Species dispersal	How far a species will disperse to find new territory
Minimum habitat for viable population	The amount of habitat required for a species population to be viable, e.g. to allow for adequate breeding numbers

Note: Some species will have 'N/A' meaning that characteristic is non-applicable

Distribution of landscape capacity over time

This map shows where areas of landscape capacity for a species population have been and are projected to be from 1750 to 2070.



Green indicates areas with landscape capacity in 1750 which were lost to land clearing by 2000. Landscape capacity is not predicted to re-emerge.

Aqua indicates areas of landscape capacity that have remained from 1750 to 2000, but expected to be lost by 2070.

Yellow indicates areas of landscape capacity that existed in 1750. These areas are predicted to still have some landscape capacity in 2070.

Red indicates areas that were not previously useful habitat, which are expected to provide new habitat capacity by 2070.

White indicates areas of continuous landscape capacity from 1750 to 2070. These areas are regarded as climate refugia.

Climate model consensus (number of models in agreement)

This map shows the degree of agreement across the four Global Circulation Models (GCMs) for the presence of medium to high (>0.25) habitat suitability as at 2070.

0 models	Areas where none of the GCMs show landscape capacity at 2070
1 model	Areas where just one GCM shows landscape capacity at 2070
2 models	Areas where there is moderate agreement. Two GCMs show landscape capacity at 2070
3 models	Areas where there is good agreement. Three GCMs show landscape capacity at 2070
4 models	Areas where all models agree that landscape capacity at 2070 will be medium to high.

Consensus rating

We have also rated the consensus across the GCM models at 2070. A ‘Good’ rating means there is little variance across the four GCMs at 2070. ‘Moderate’ indicates 2 or 3 of the models agree, and a ‘Poor’ rating indicated no agreement. NB: consensus can be ‘good’ when the agreed landscape capacity for 2070 is ‘poor’ if all models agree it is poor.

Good	G	The model agreement is rated as Good
Moderate	M	The model agreement is rated as Moderate
Poor	P	The model agreement is rated as Poor

Pouched frog species forecast to 2070

Scientific name: *Assa darlingtoni*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	41%	34%	40%
Landscape capacity from 2000	244%	100%	83%	98%

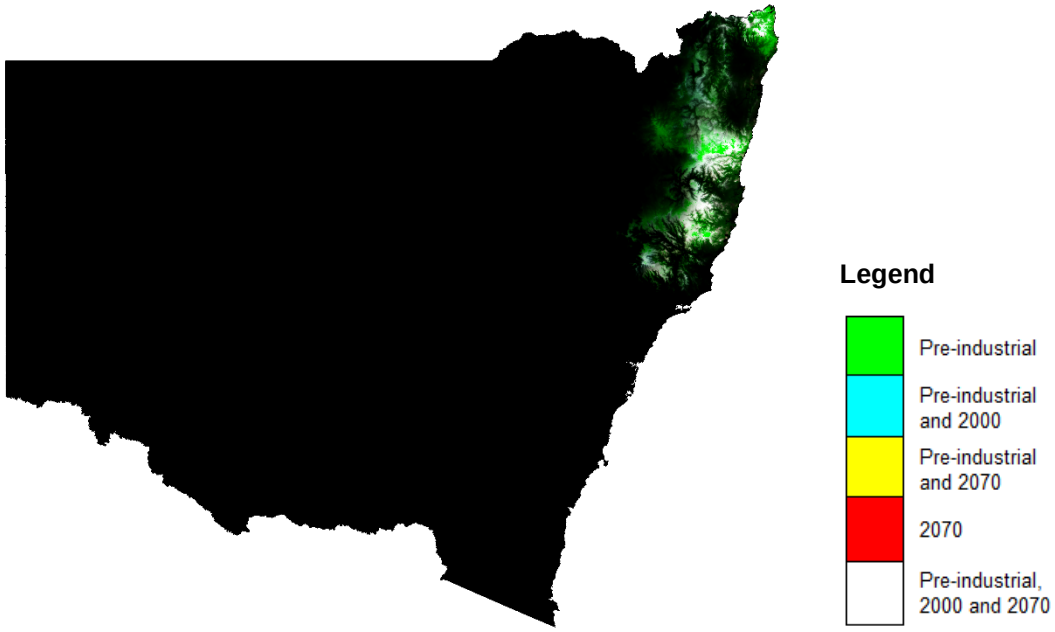
Predicted range shift

Projected landscape capacity is mostly stable.

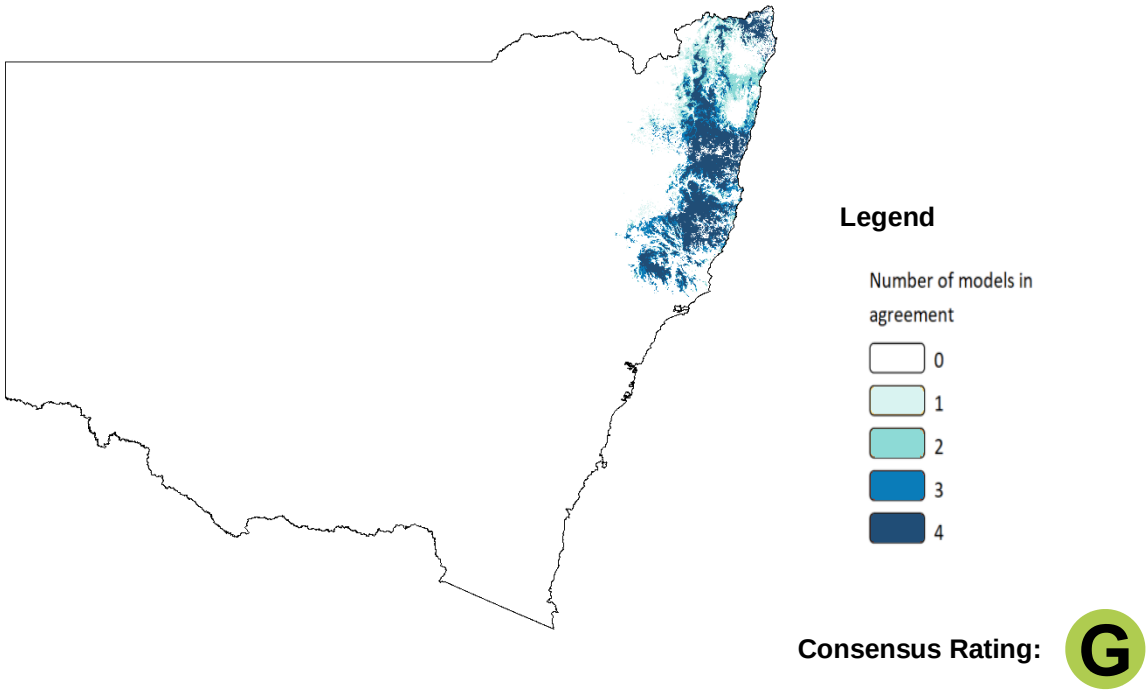
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	8 - 18 m
Species dispersal movement	575 - 898 m
Minimum habitat for viable population	48 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Giant burrowing frog species forecast to 2070

Scientific name: *Heleioporus australiacus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	48%	30%	11%
Landscape capacity from 2000	208%	100%	62%	23%

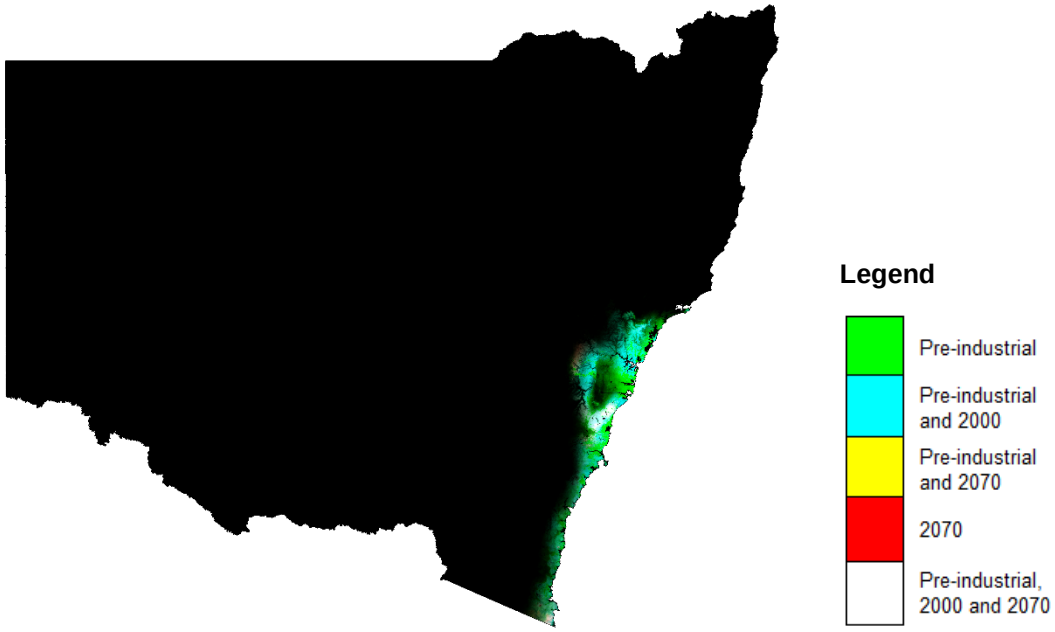
Predicted range shift

Projected landscape capacity is contracting.

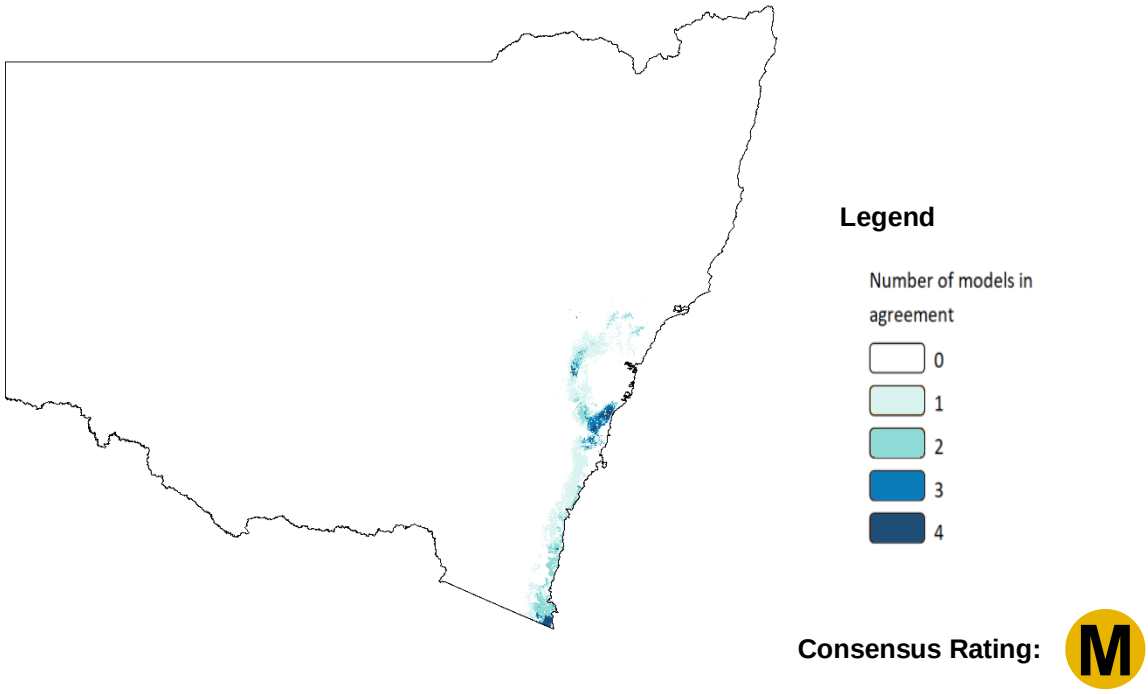
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	31 - 74 m
Species dispersal movement	2875 - 4492 m
Minimum habitat for viable population	238 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Littlejohn's tree frog species forecast to 2070

Scientific name: *Litoria littlejohni*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	64%	27%	9%
Landscape capacity from 2000	156%	100%	42%	14%

Predicted range shift

Species is shifting to a new range and disappearing.

Species landscape characteristics

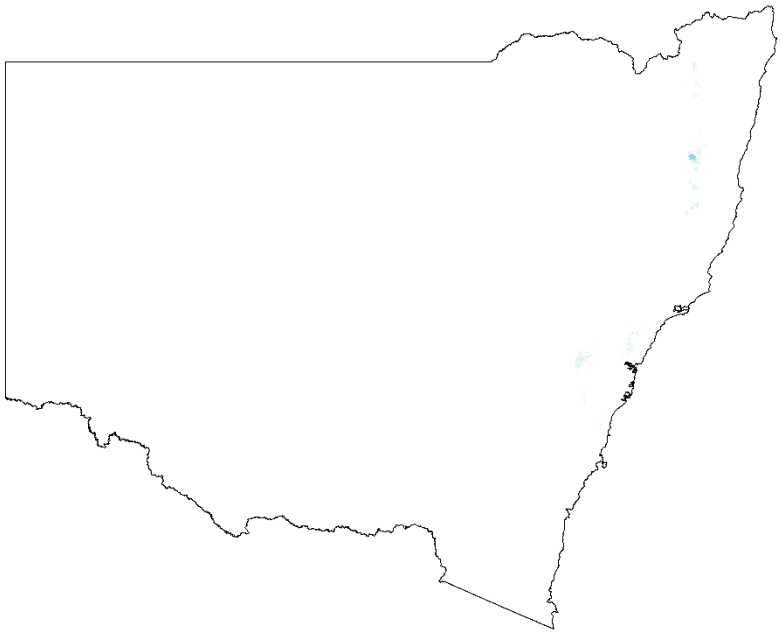
Characteristic	Distance/Area
Species day to day movement ability	148 - 351 m
Species dispersal movement	17249 - 26951 m
Minimum habitat for viable population	1,426 ha

Distribution of landscape capacity over time

Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: G

Stuttering frog species forecast to 2070

Scientific name: *Mixophyes balbus*

Conservation status in NSW: Endangered

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	53%	54%	42%
Landscape capacity from 2000	189%	100%	102%	79%

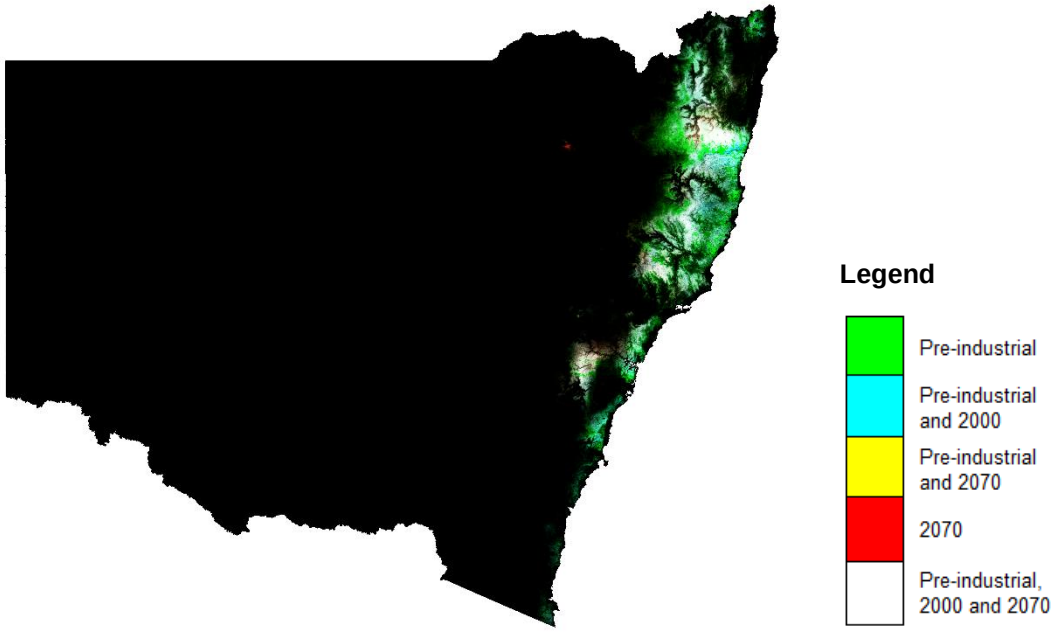
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

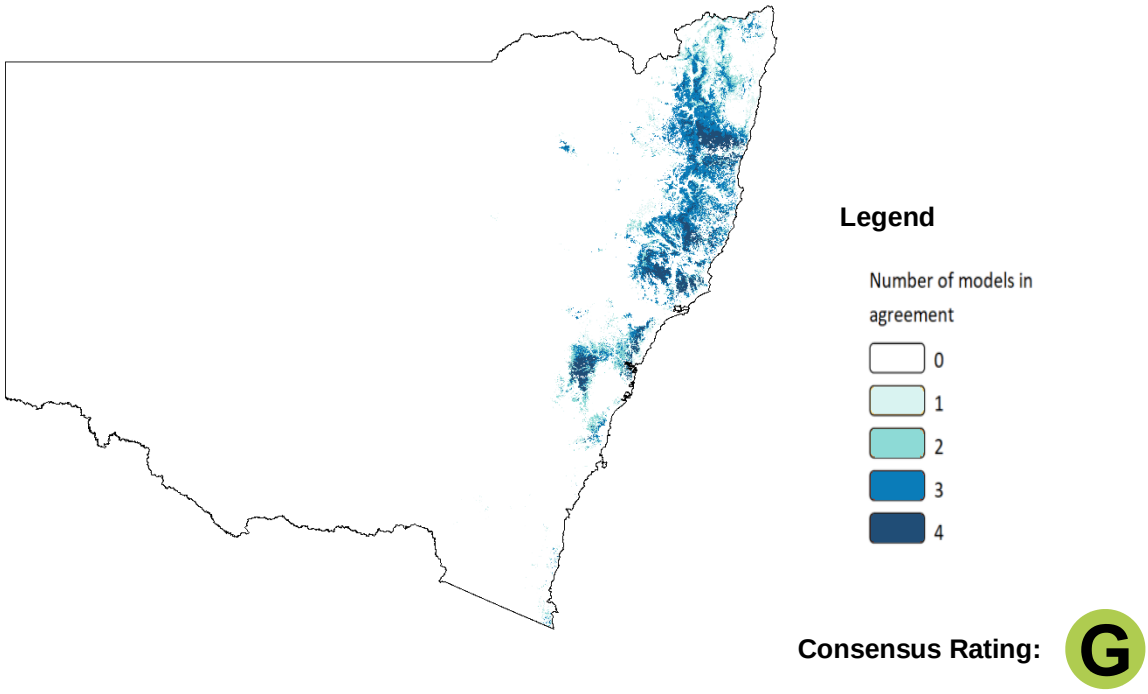
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	13 - 30 m
Species dispersal movement	2300 - 3594 m
Minimum habitat for viable population	190 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Giant barred frog species forecast to 2070

Scientific name: *Mixophyes iteratus*

Conservation status in NSW: Endangered

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	59%	41%	46%
Landscape capacity from 2000	169%	100%	69%	78%

Predicted range shift

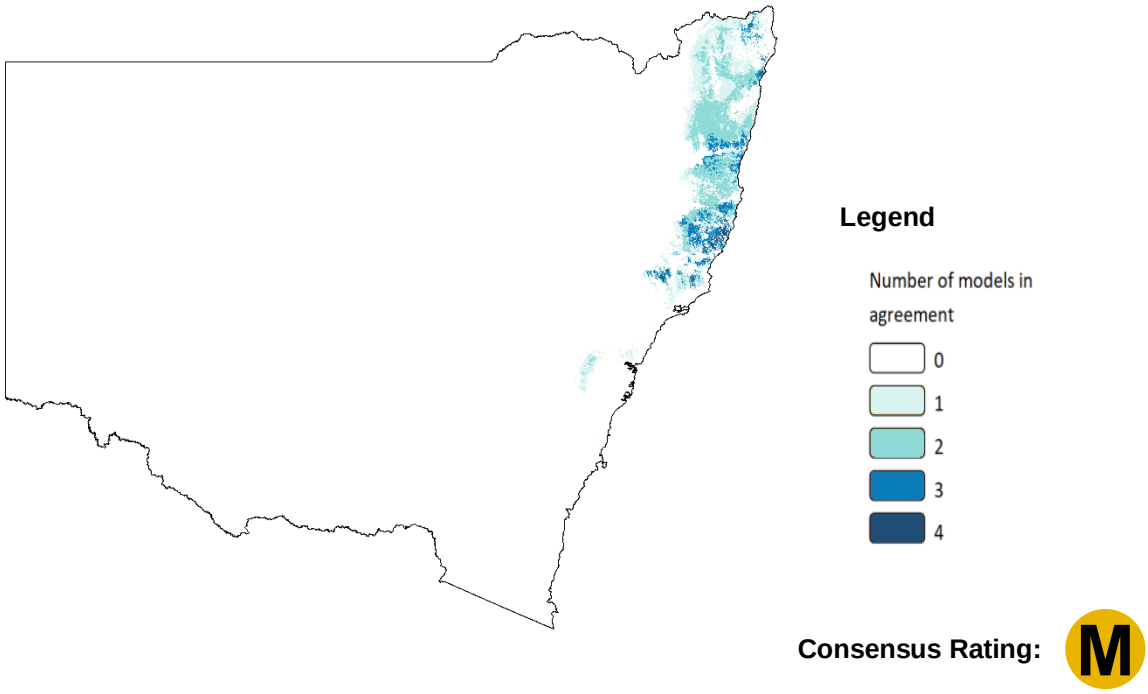
Projected distribution is contracting and shifting to a new range.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	36 - 40 m
Species dispersal movement	4500 - 5000 m
Minimum habitat for viable population	250 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Loveridge's frog species forecast to 2070

Scientific name: *Philoria loveridgei*

Conservation status in NSW: Endangered

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	35%	27%
Landscape capacity from 2000	222%	100%	78%	60%

Predicted range shift

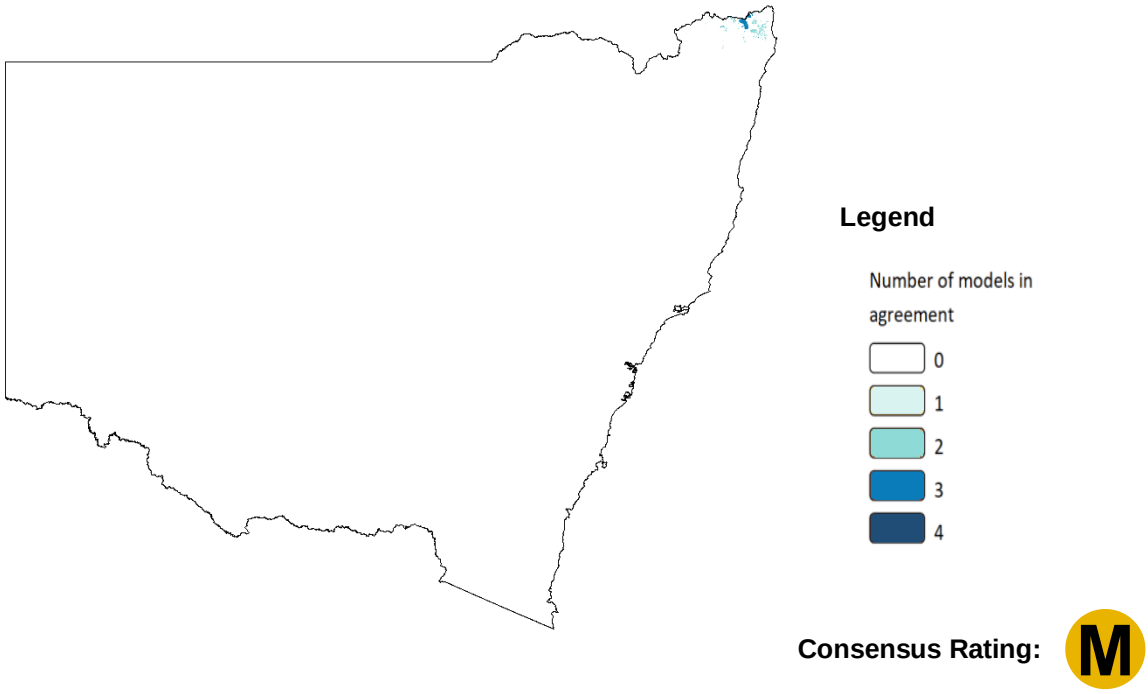
Projected distribution is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	13 - 30 m
Species dispersal movement	862 - 1348 m
Minimum habitat for viable population	71 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Little pied bat species forecast to 2070

Scientific name: *Chalinolobus picatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	43%	26%	23%
Landscape capacity from 2000	233%	100%	60%	53%

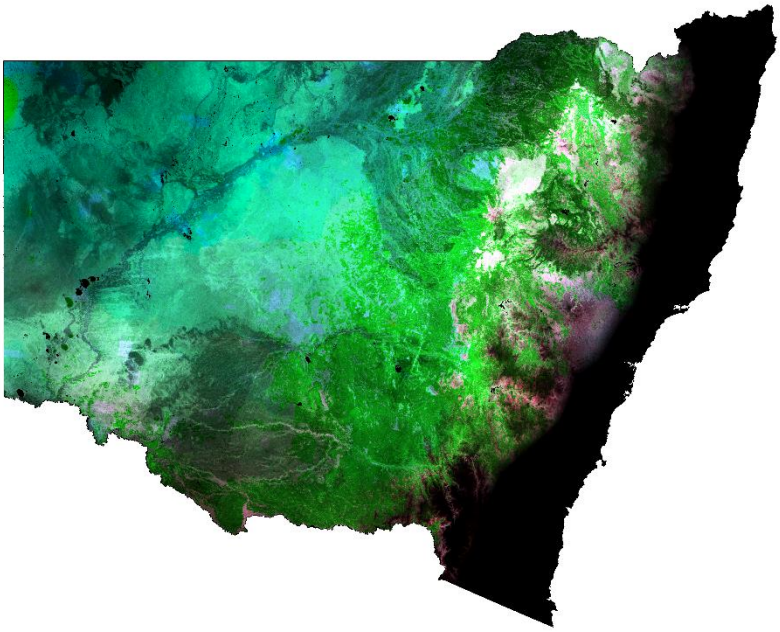
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

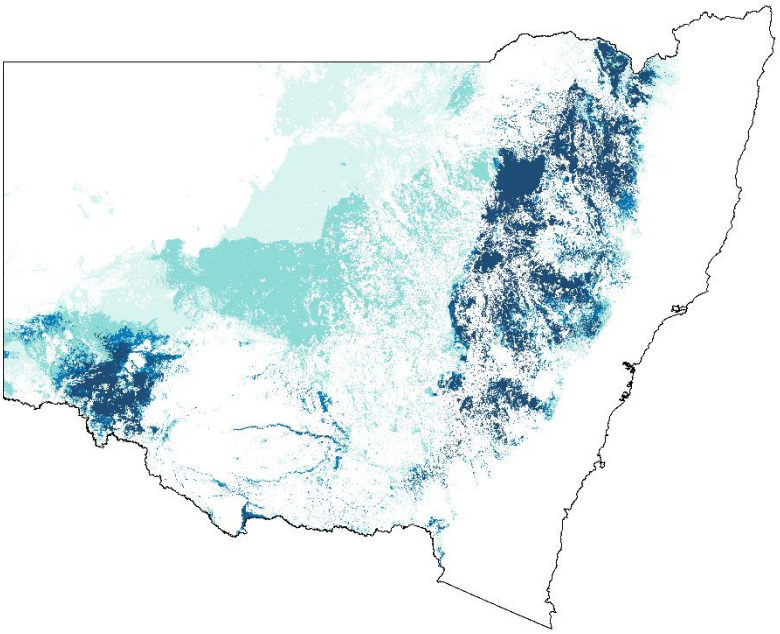
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: P

Little bent-winged bat species forecast to 2070

Scientific name: *Miniopterus australis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	57%	41%	43%
Landscape capacity from 2000	175%	100%	72%	75%

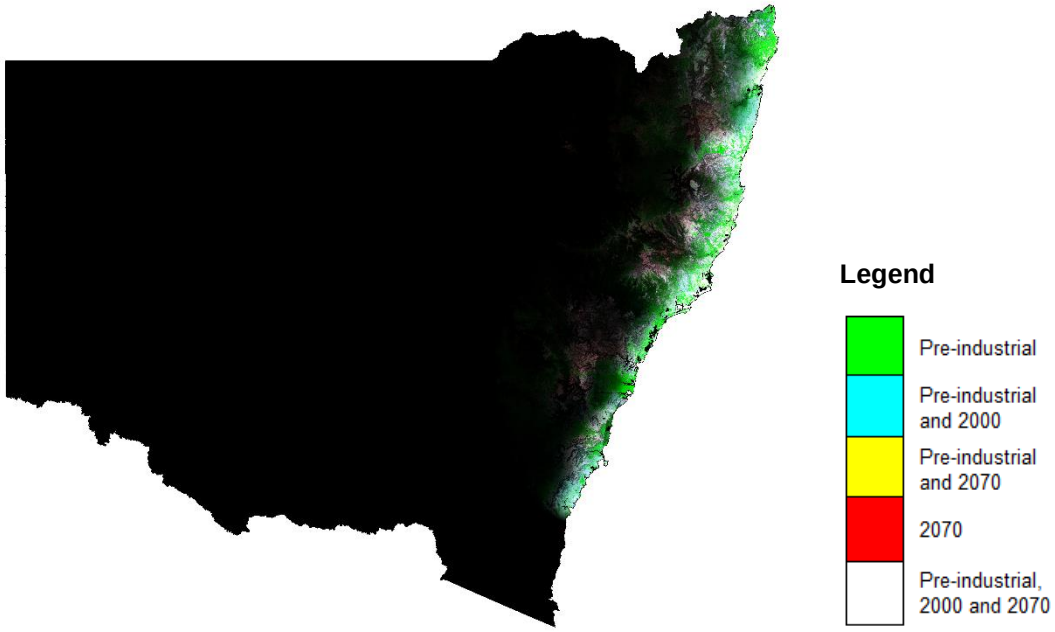
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

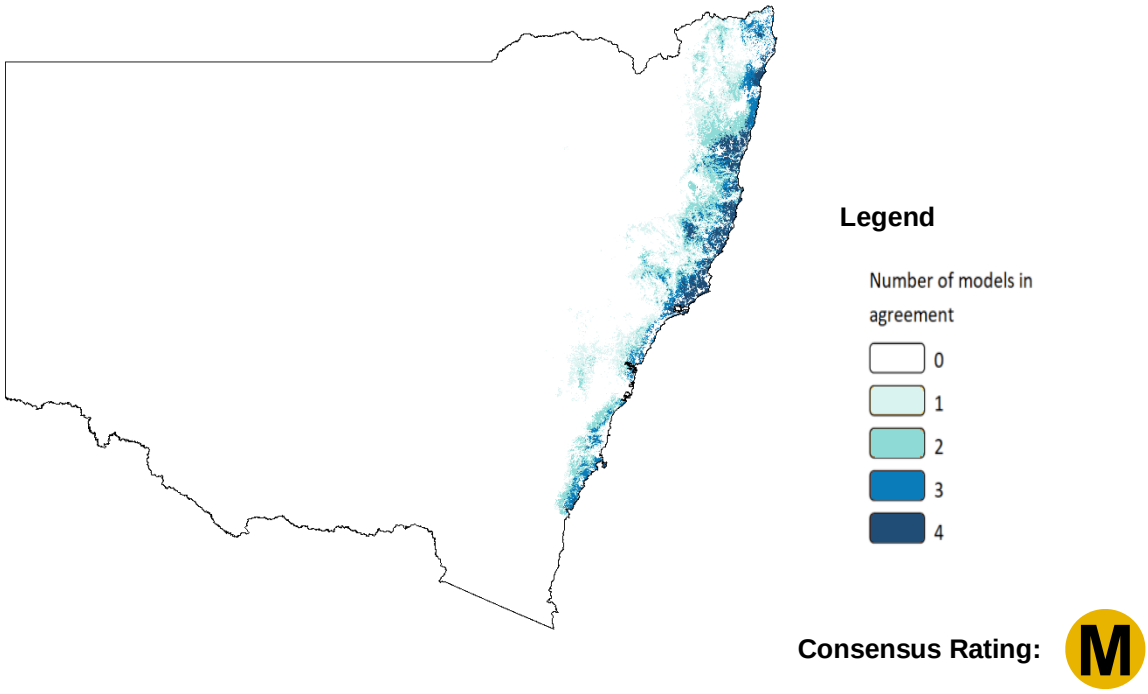
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	12,000 - 20,000 m
Species dispersal movement	20,000 - 200,000 m
Minimum habitat for viable population	25,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Corben's long-eared bat species forecast to 2070

Scientific name: *Nyctophilus corbeni*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	43%	33%	30%
Landscape capacity from 2000	233%	100%	77%	70%

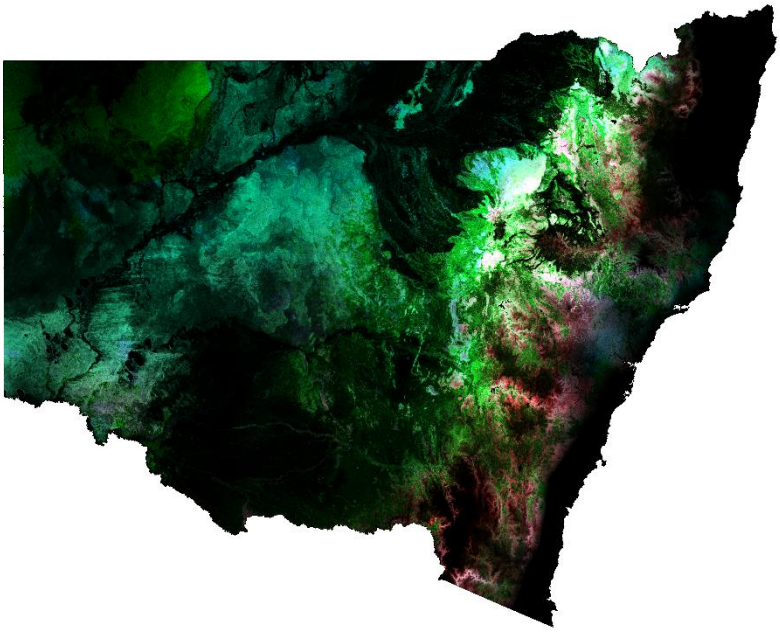
Predicted range shift

Projected landscape capacity is shifting to higher elevation.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

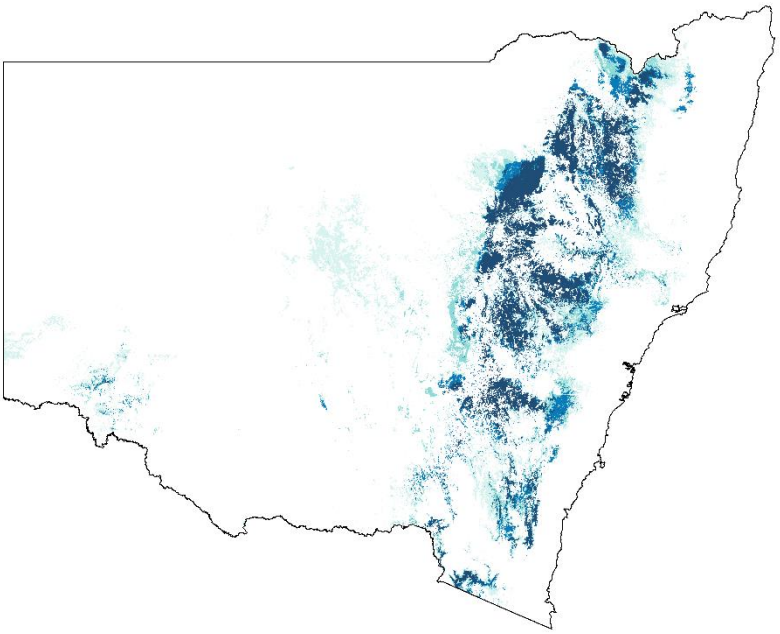
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Golden-tipped bat species forecast to 2070

Scientific name: *Phoniscus papuensis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	36%	19%	12%
Landscape capacity from 2000	278%	100%	53%	33%

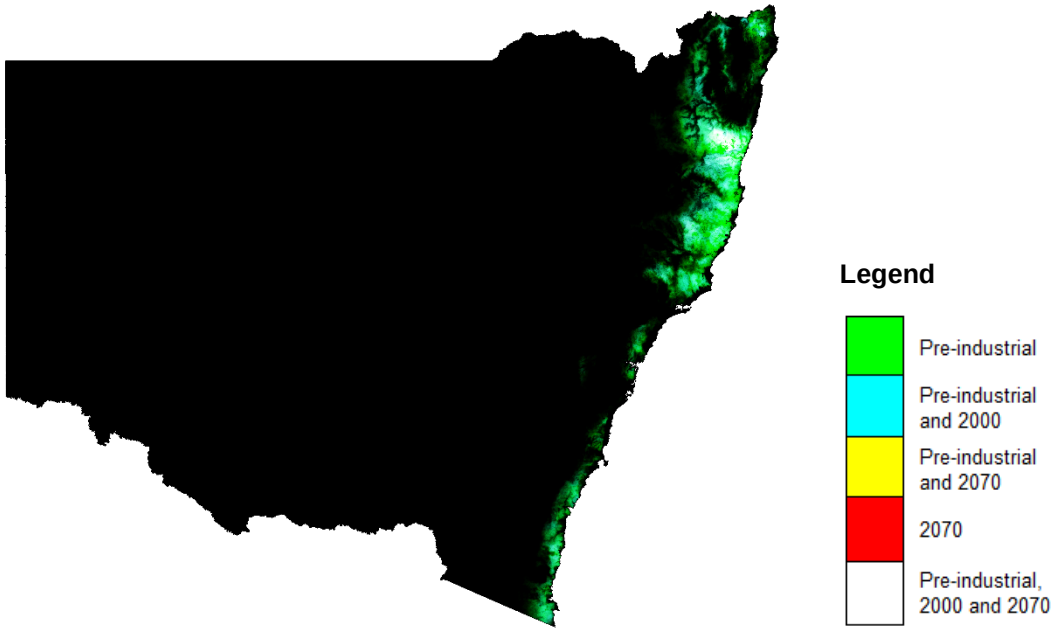
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

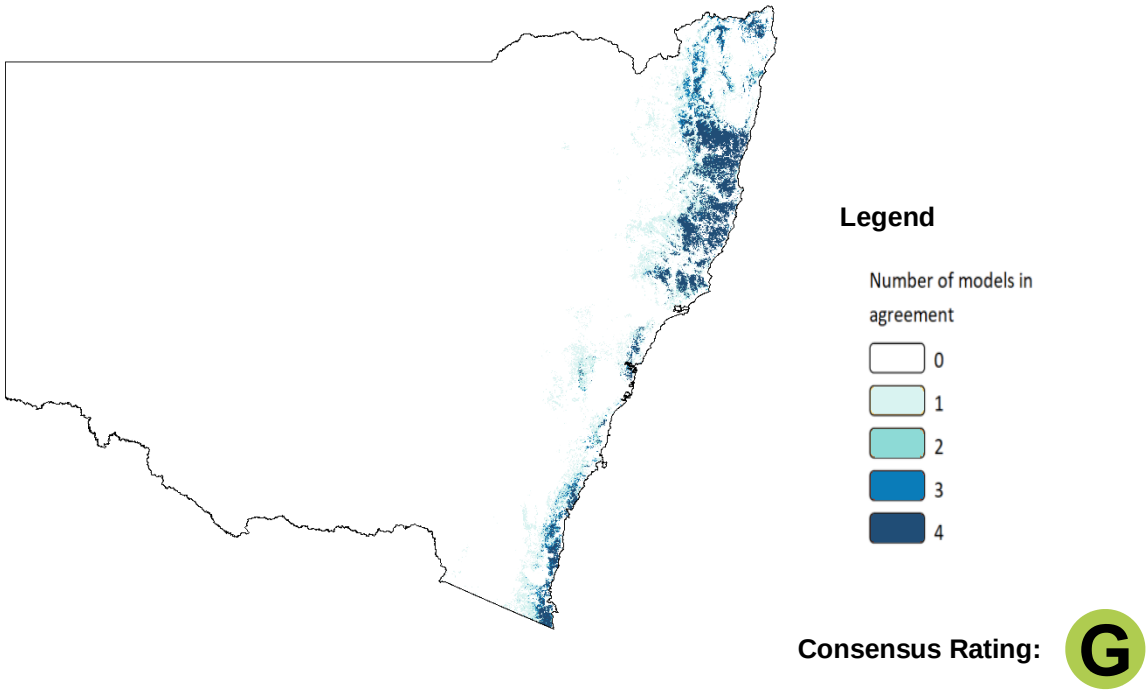
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 1,000 m
Species dispersal movement	1,400 - 10,000 m
Minimum habitat for viable population	1,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Yellow-bellied sheathtail bat species forecast to 2070

Scientific name: *Saccolaimus flaviventris*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	69%	58%	53%
Landscape capacity from 2000	145%	100%	84%	77%

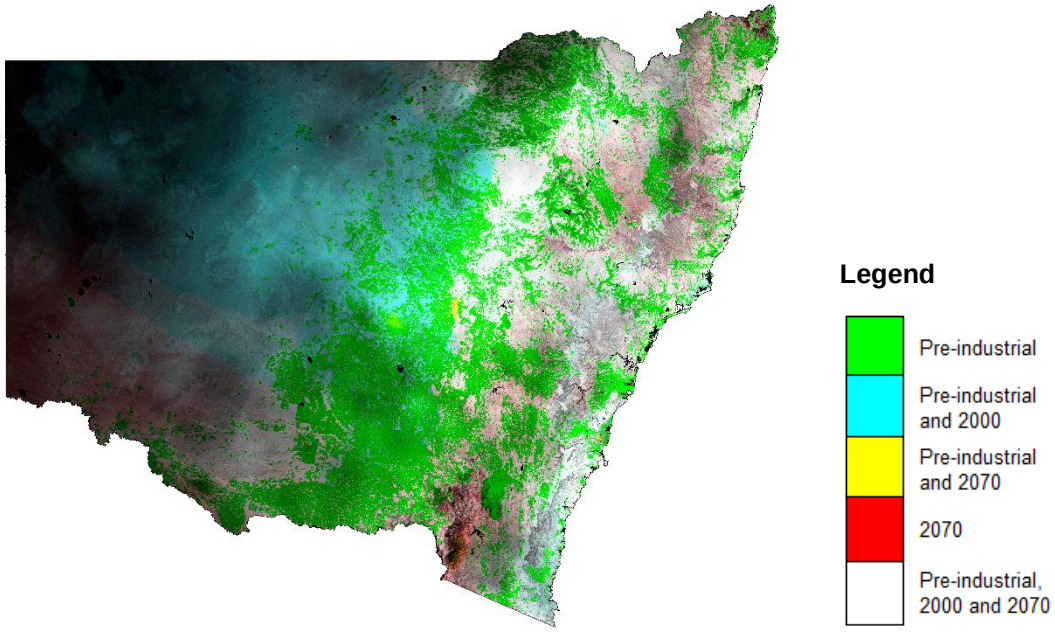
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

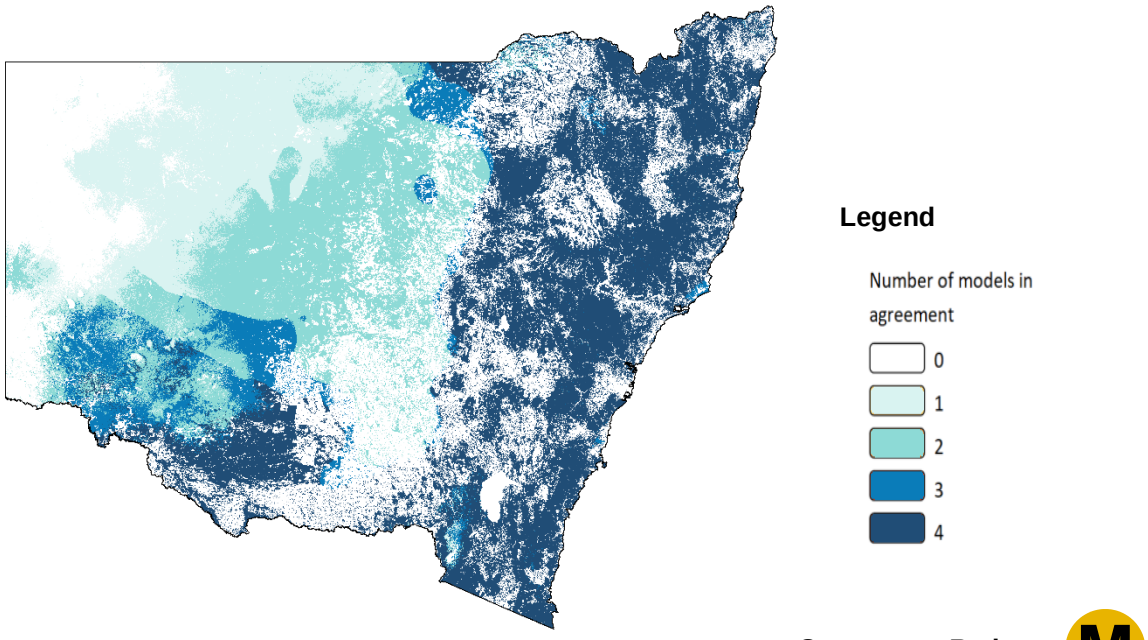
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Greater broad-nosed bat species forecast to 2070

Scientific name: *Scoteanax rueppellii*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	73%	54%	48%
Landscape capacity from 2000	137%	100%	74%	66%

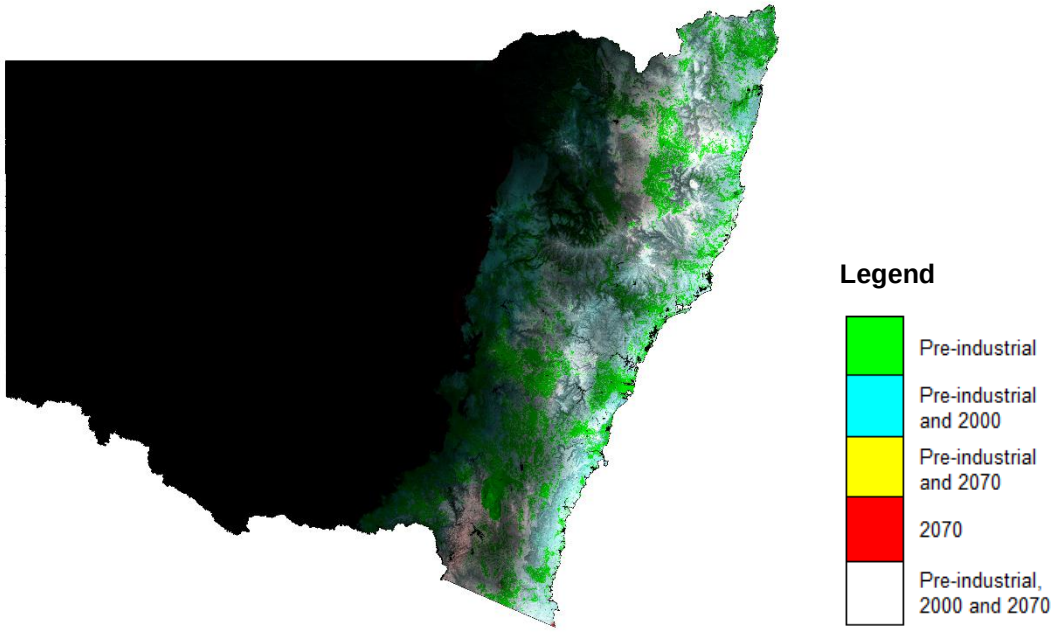
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

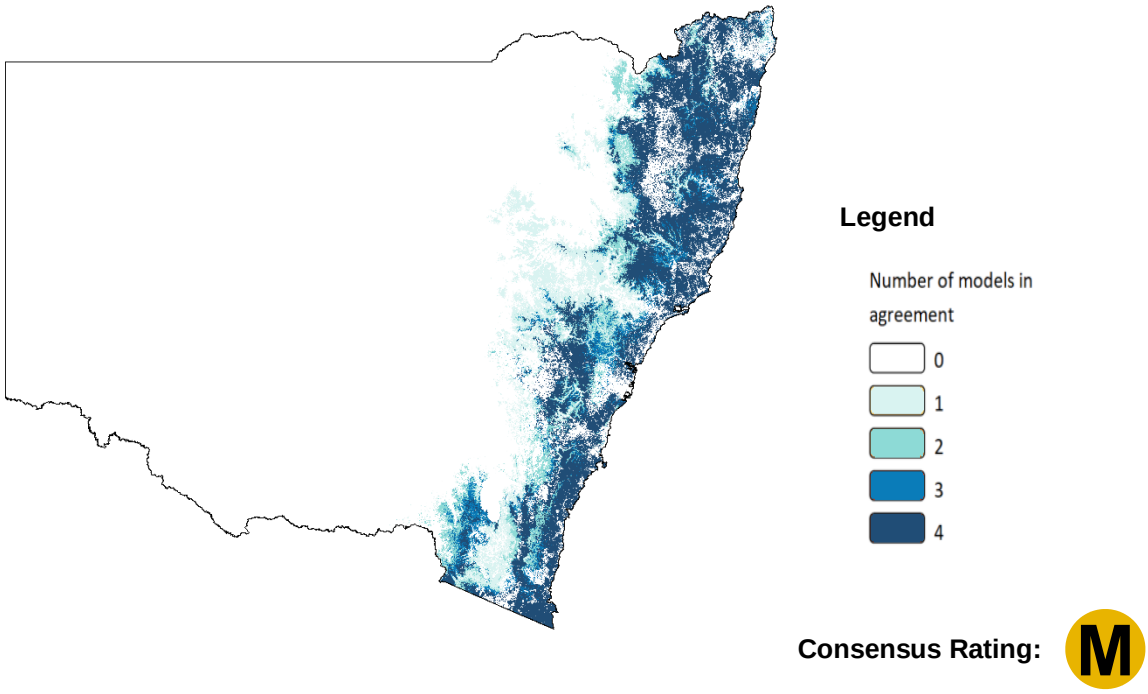
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Inland forest bat species forecast to 2070

Scientific name: *Vespadelus baverstocki*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	36%	17%
Landscape capacity from 2000	222%	100%	80%	38%

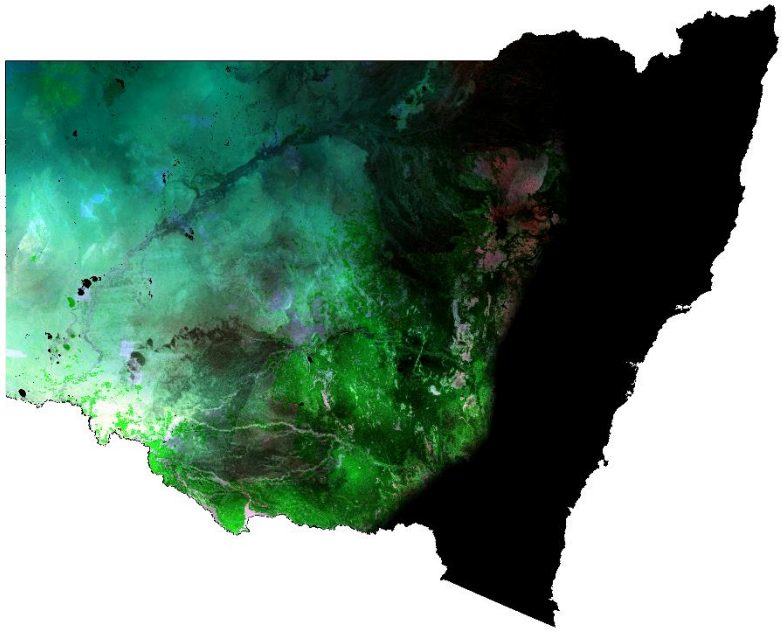
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

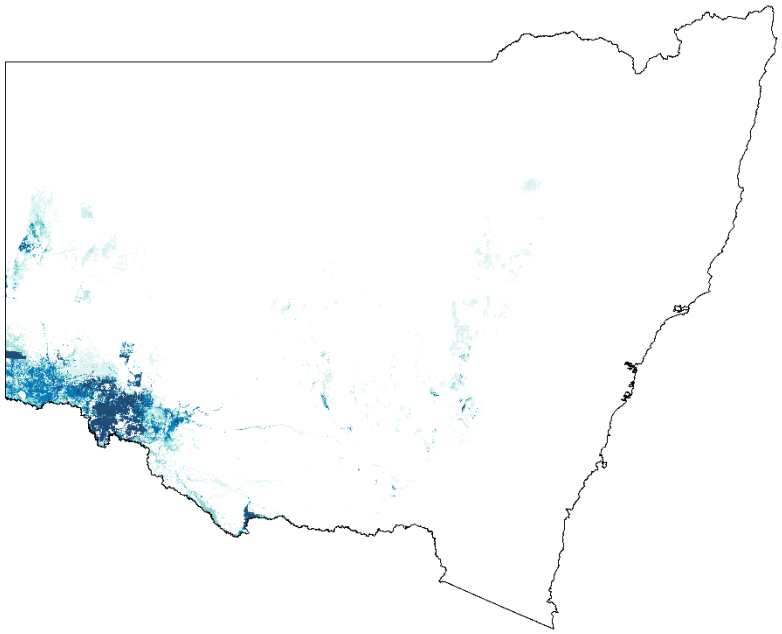
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Dusky woodswallow species forecast to 2070

Scientific name: *Artamus cyanopterus cyanopterus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	36%	32%
Landscape capacity from 2000	222%	100%	80%	71%

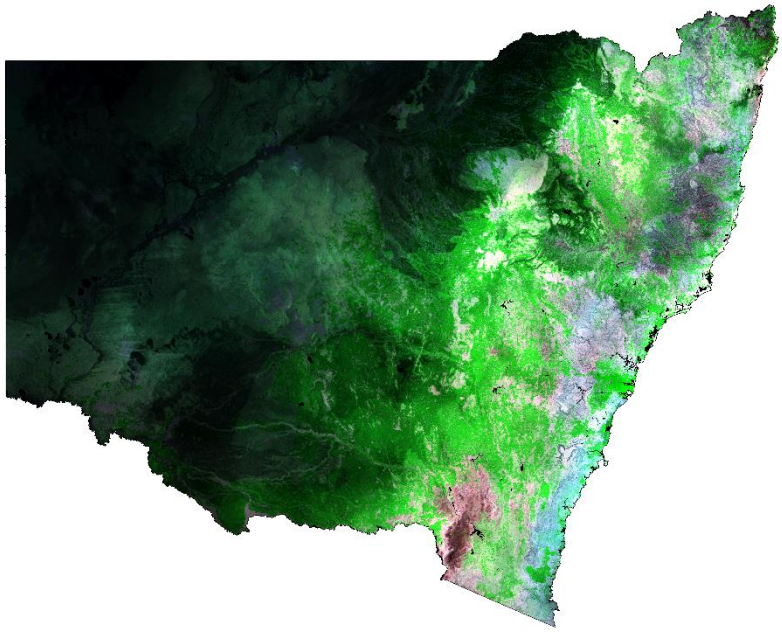
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

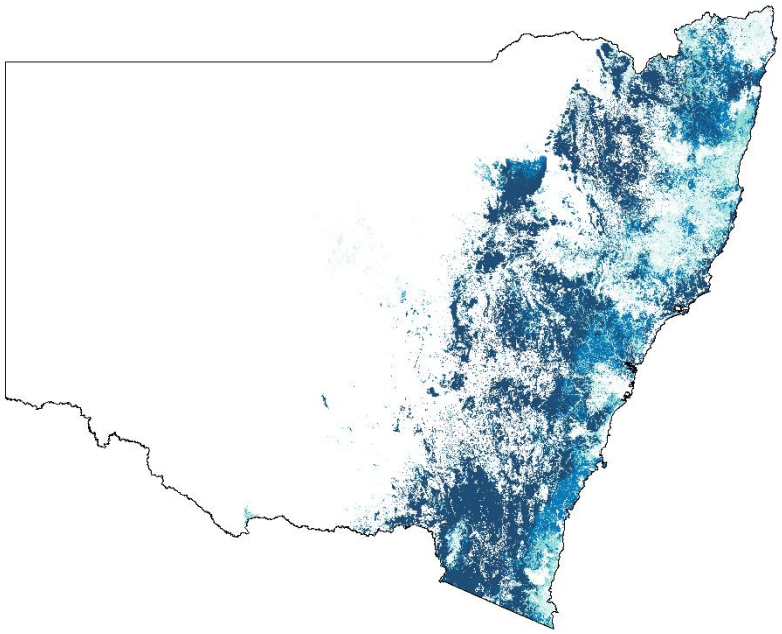
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Rufous scrub-bird species forecast to 2070

Scientific name: *Atrichornis rufescens*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	99%	75%	71%
Landscape capacity from 2000	101%	100%	76%	72%

Predicted range shift

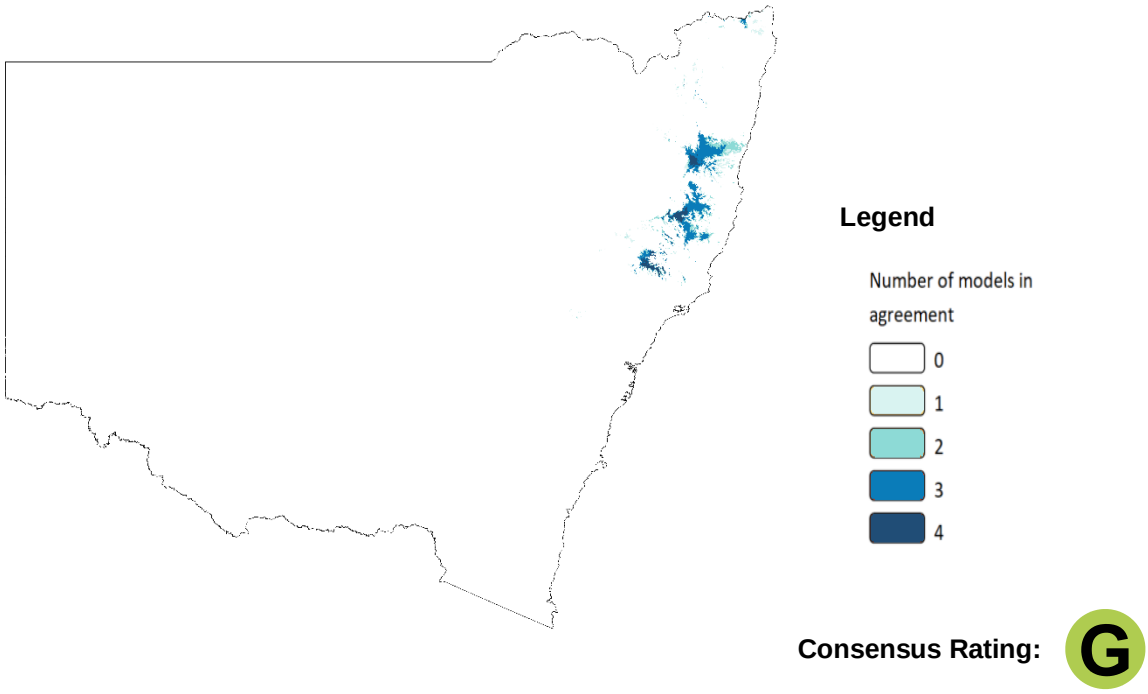
Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 1,000 m
Species dispersal movement	300 - 20,000 m
Minimum habitat for viable population	600 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: G

Australasian bittern species forecast to 2070

Scientific name: *Botaurus poiciloptilus*

Conservation status in NSW: Endangered

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	41%	26%	29%
Landscape capacity from 2000	244%	100%	63%	71%

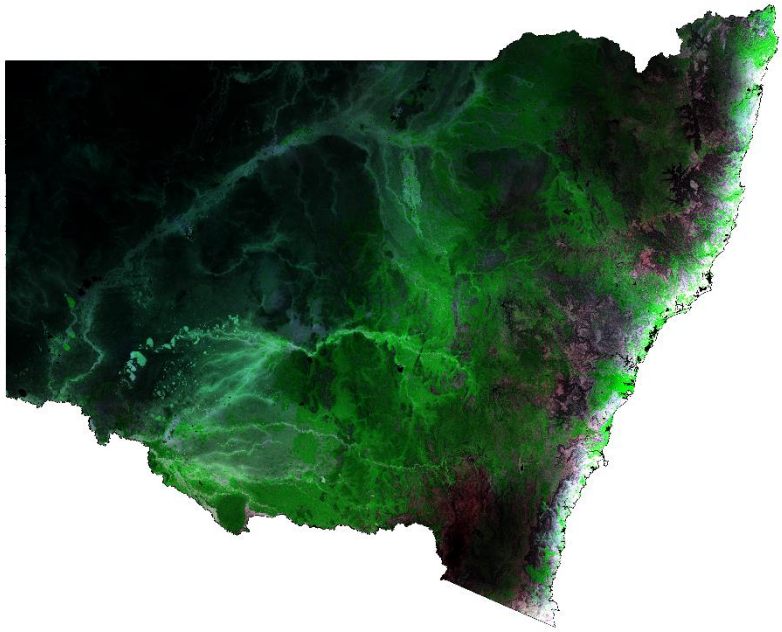
Predicted range shift

Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

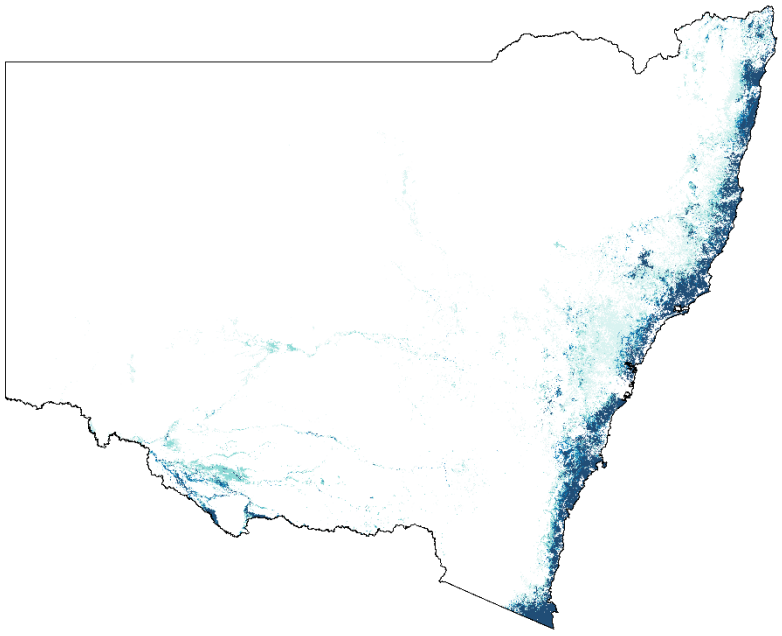
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Bush stone-curlew species forecast to 2070

Scientific name: *Burhinus grallarius*

Conservation status in NSW: Endangered

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	42%	39%	38%
Landscape capacity from 2000	238%	100%	93%	90%

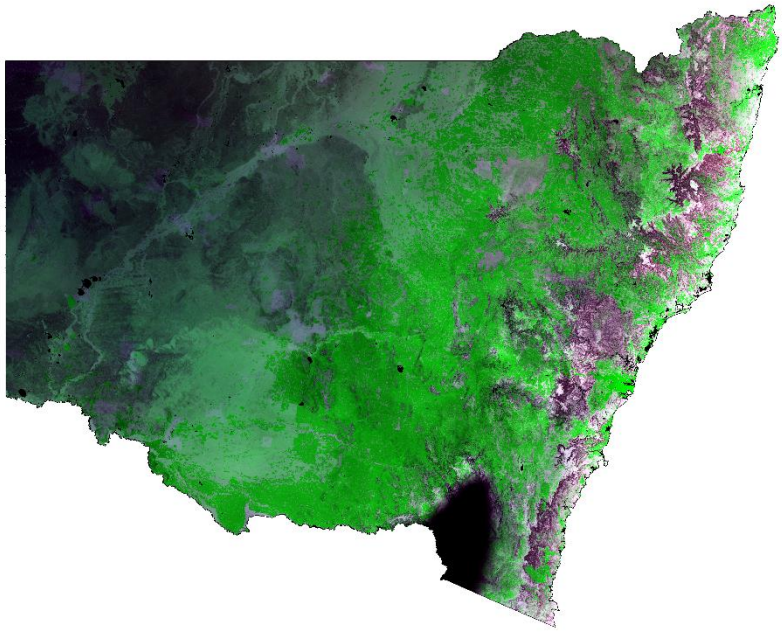
Predicted range shift

Projected landscape capacity is mostly stable.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	1,000 - 3,000 m
Species dispersal movement	1,000 - 10,000 m
Minimum habitat for viable population	1,500 ha

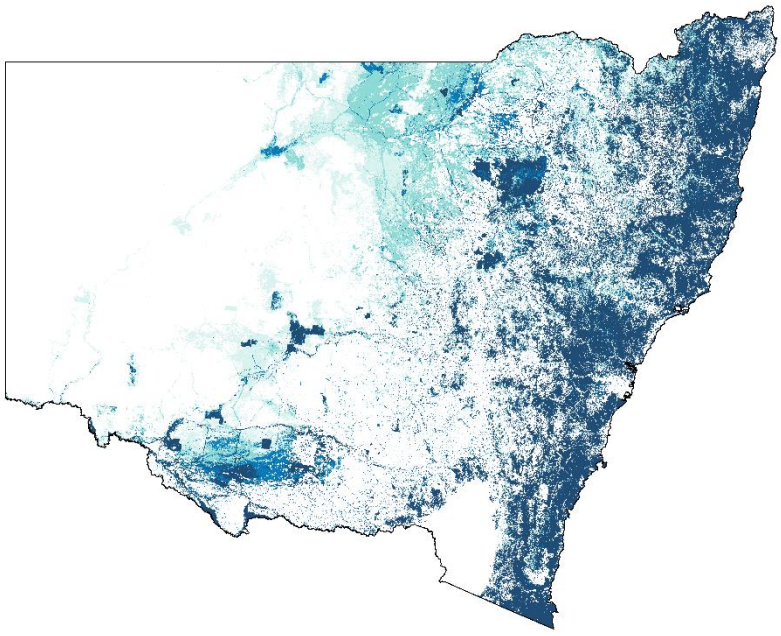
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: G

Gang-gang cockatoo species forecast to 2070

Scientific name: *Callocephalon fimbriatum*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	38%	25%
Landscape capacity from 2000	222%	100%	84%	56%

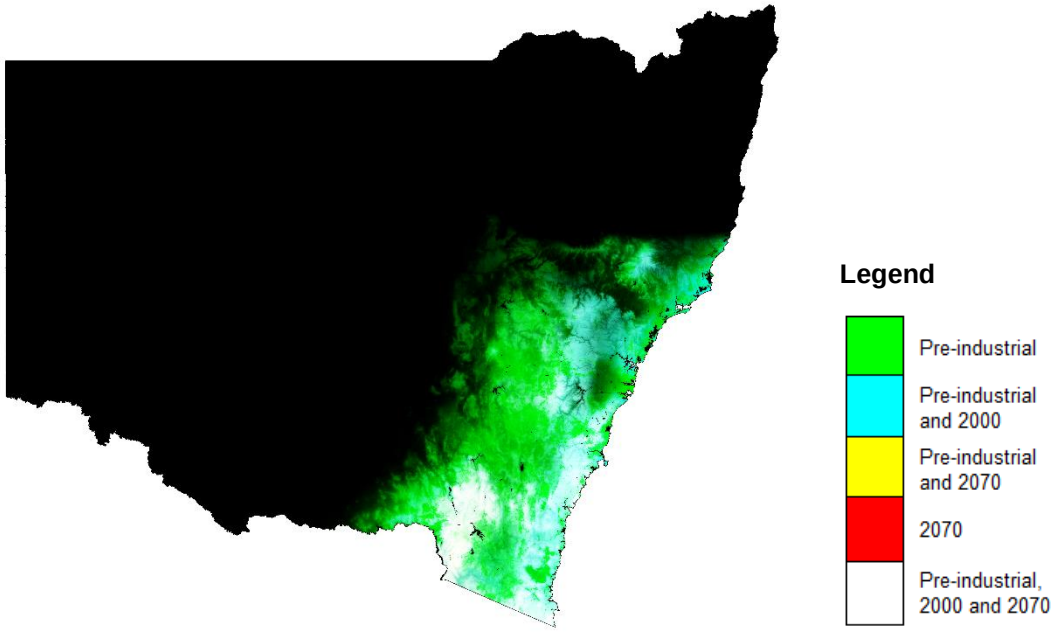
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving south.

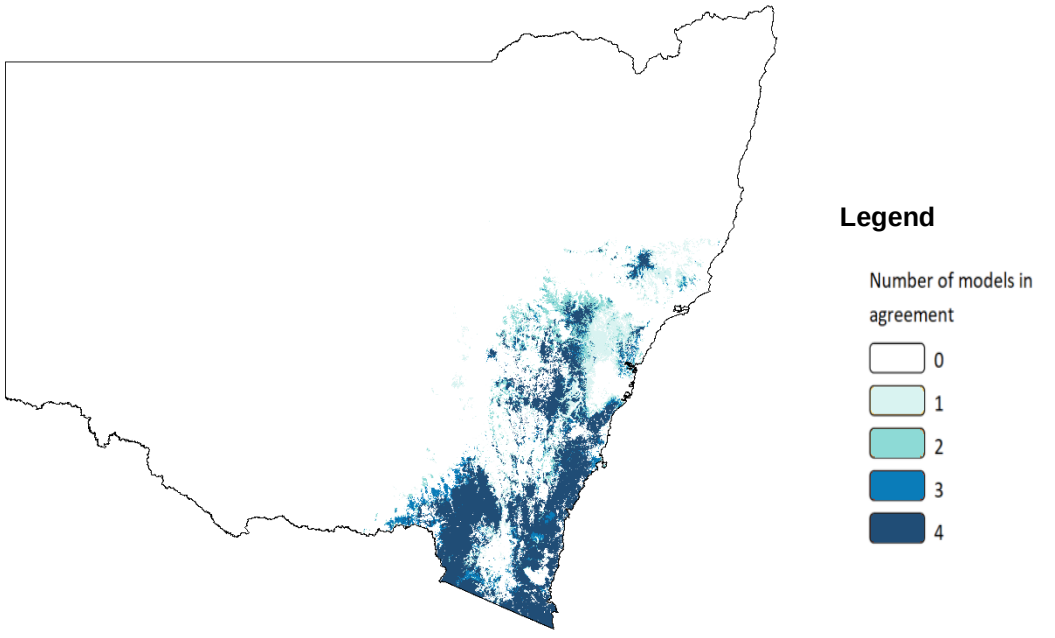
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	100 - 500 m
Species dispersal movement	10,000 - 50,000 m
Minimum habitat for viable population	2,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Red-tailed black cockatoo (inland subspecies) species forecast to 2070

Scientific name: *Calyptorhynchus banksii samueli*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	41%	35%	23%
Landscape capacity from 2000	244%	100%	85%	56%

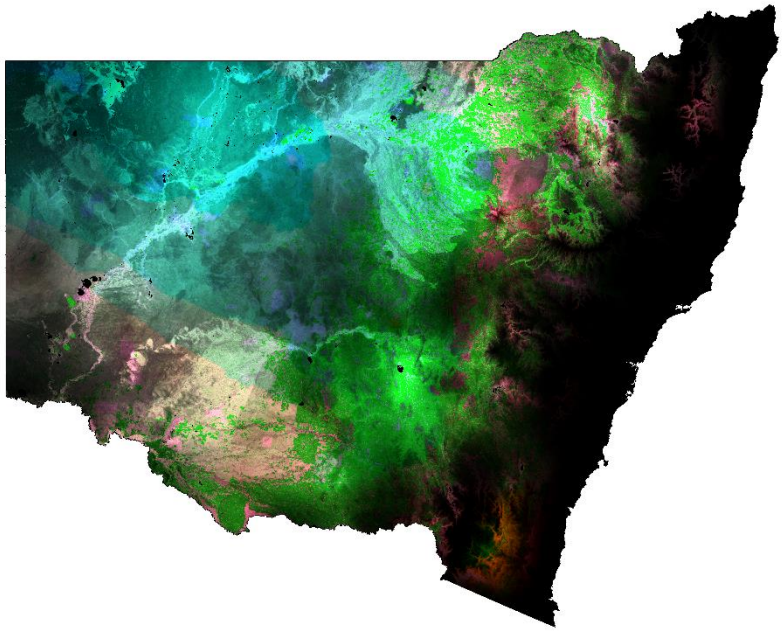
Predicted range shift

Projected landscape capacity is shifting south-east, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

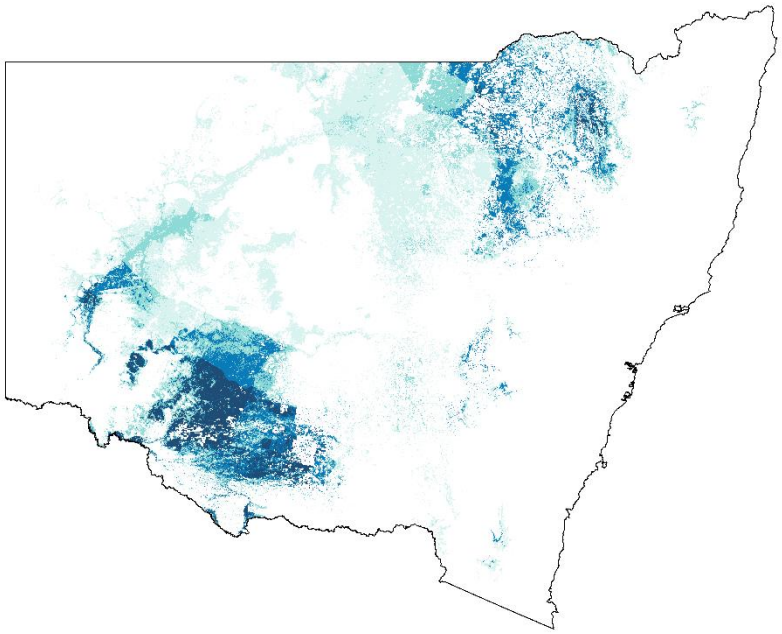
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Glossy black-cockatoo species forecast to 2070

Scientific name: *Calyptorhynchus lathami*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	75%	54%	55%
Landscape capacity from 2000	133%	100%	72%	73%

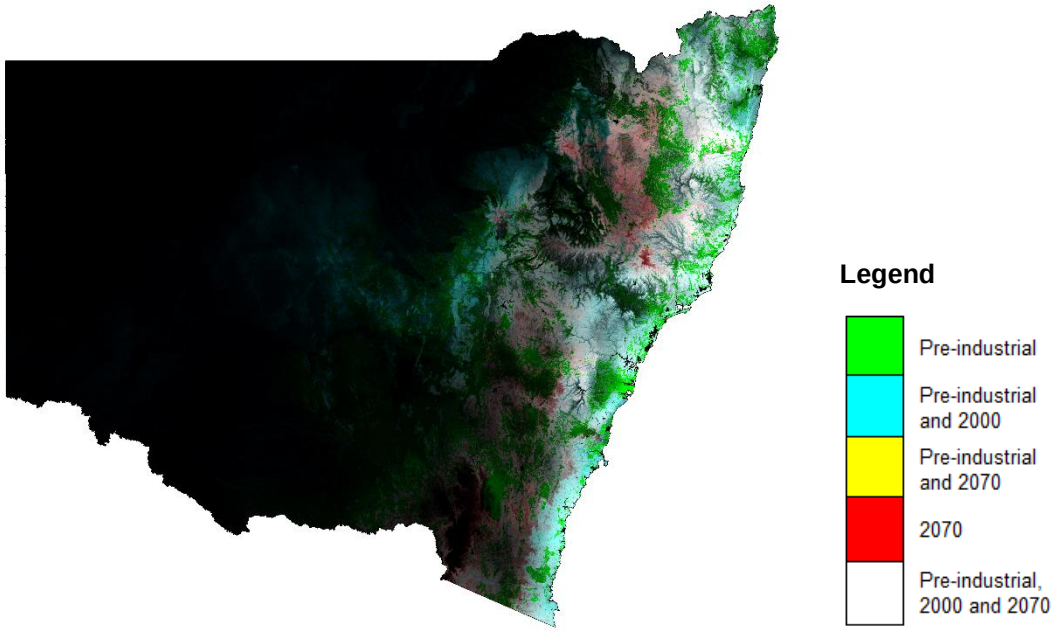
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is shifting to a new range.

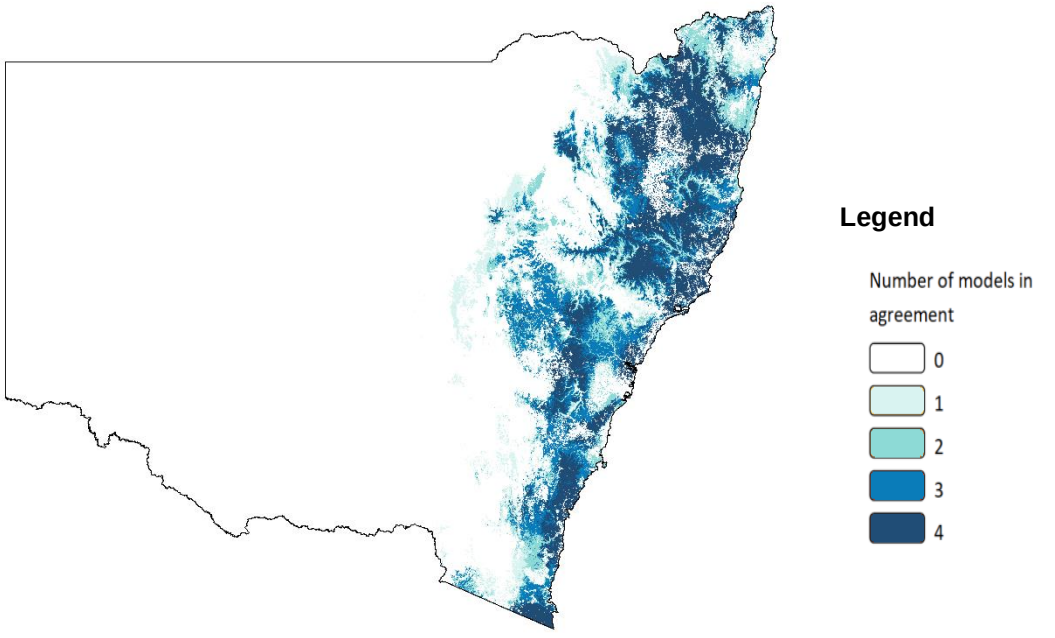
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Pied honeyeater species forecast to 2070

Scientific name: *Certhionyx variegatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	81%	60%	39%
Landscape capacity from 2000	123%	100%	74%	48%

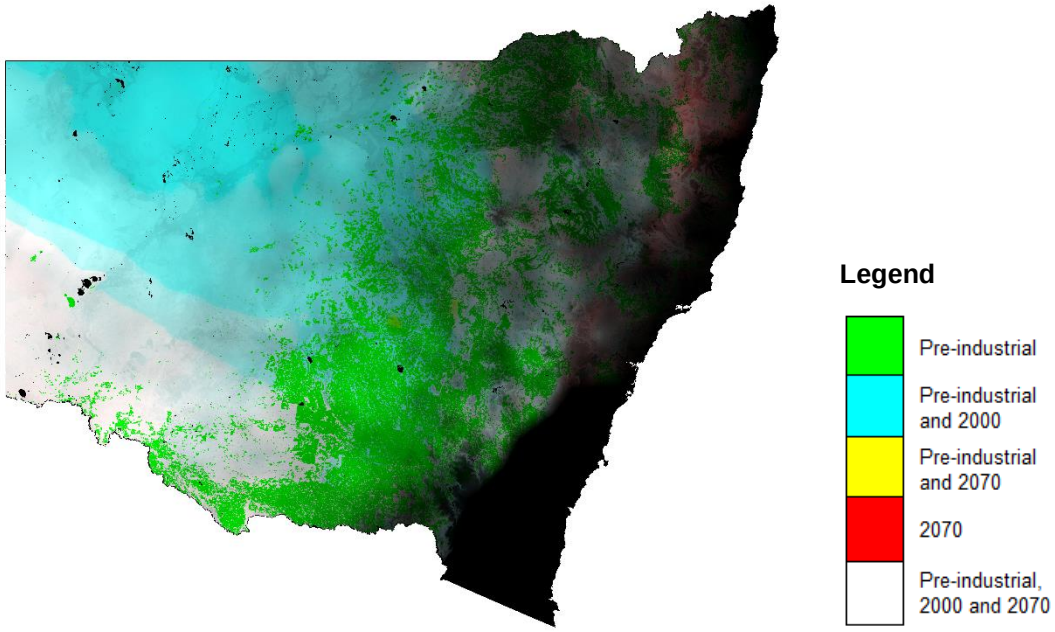
Predicted range shift

Projected landscape capacity is contracting, and moving south.

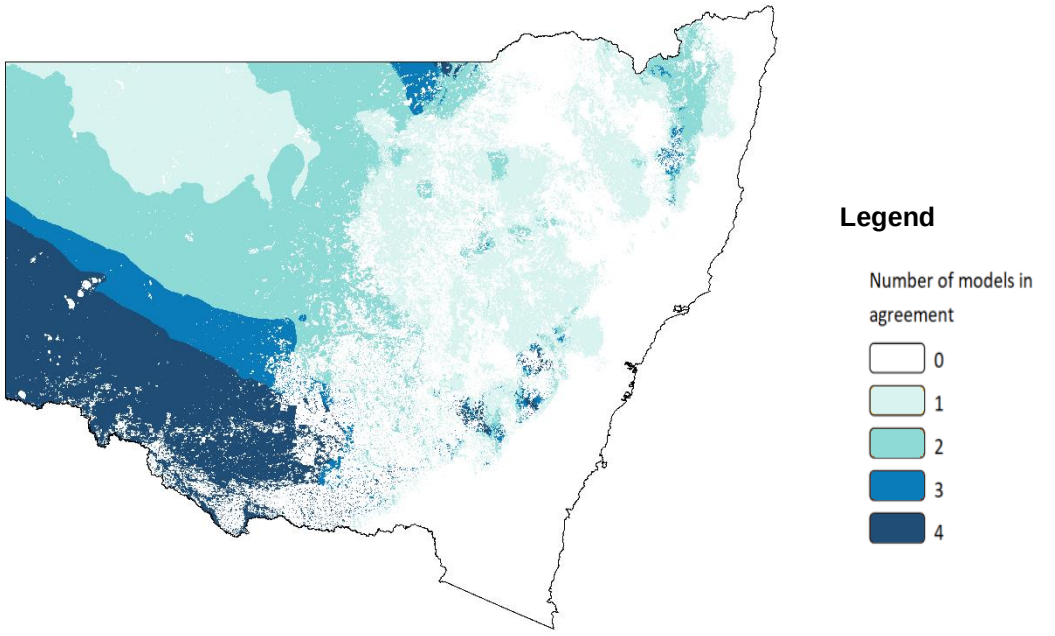
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	2,250 - 3,500 m
Species dispersal movement	500,000 - 750,000 m
Minimum habitat for viable population	50 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Speckled warbler species forecast to 2070

Scientific name: *Chthonicola sagittata*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	68%	49%	43%
Landscape capacity from 2000	147%	100%	72%	63%

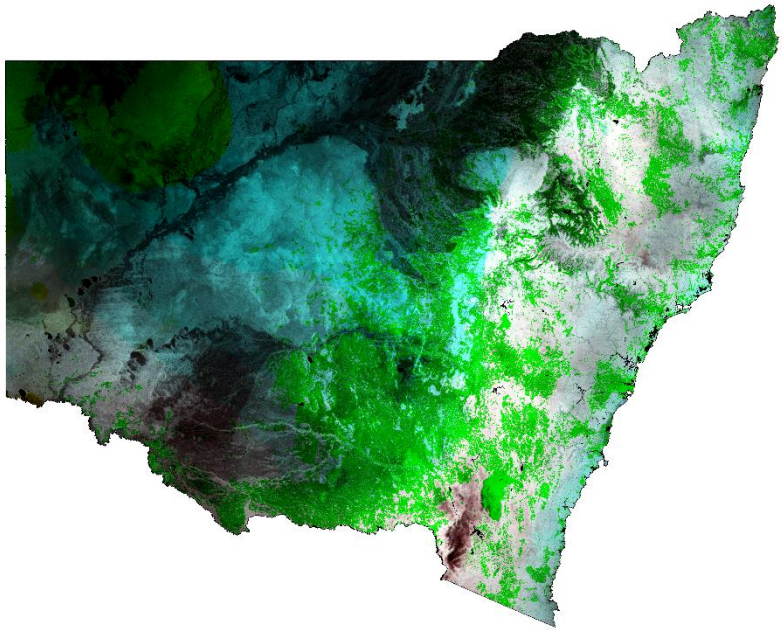
Predicted range shift

Projected landscape capacity is shifting to higher elevation and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	200 - 1,250 m
Species dispersal movement	300 - 7,500 m
Minimum habitat for viable population	50 ha

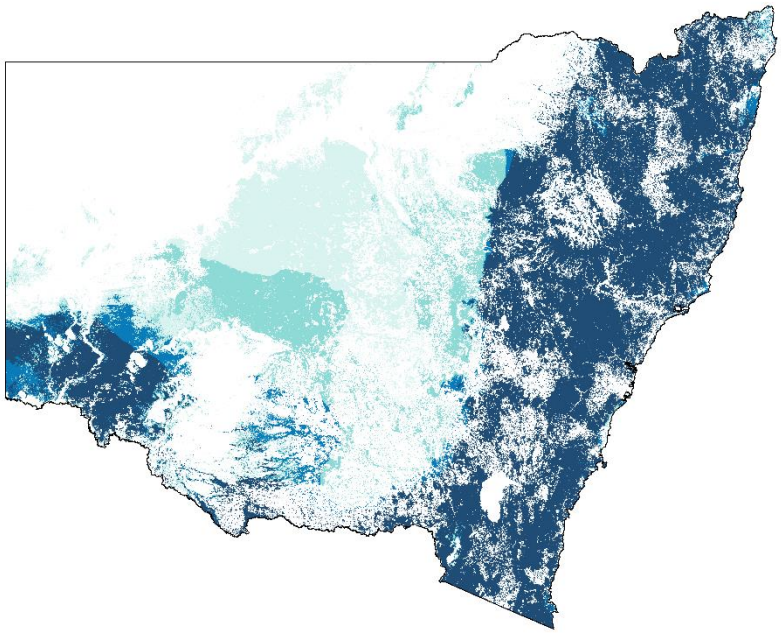
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Chestnut quail-thrush species forecast to 2070

Scientific name: *Cinclosoma castanotum*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	44%	20%	7%
Landscape capacity from 2000	227%	100%	45%	16%

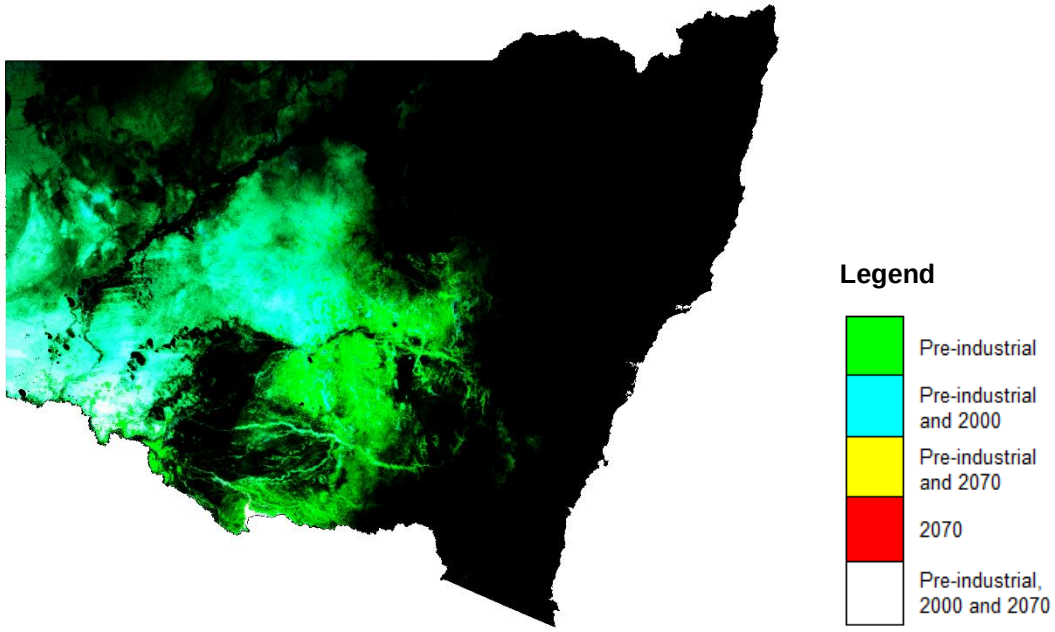
Predicted range shift

Projected landscape capacity is contracting.

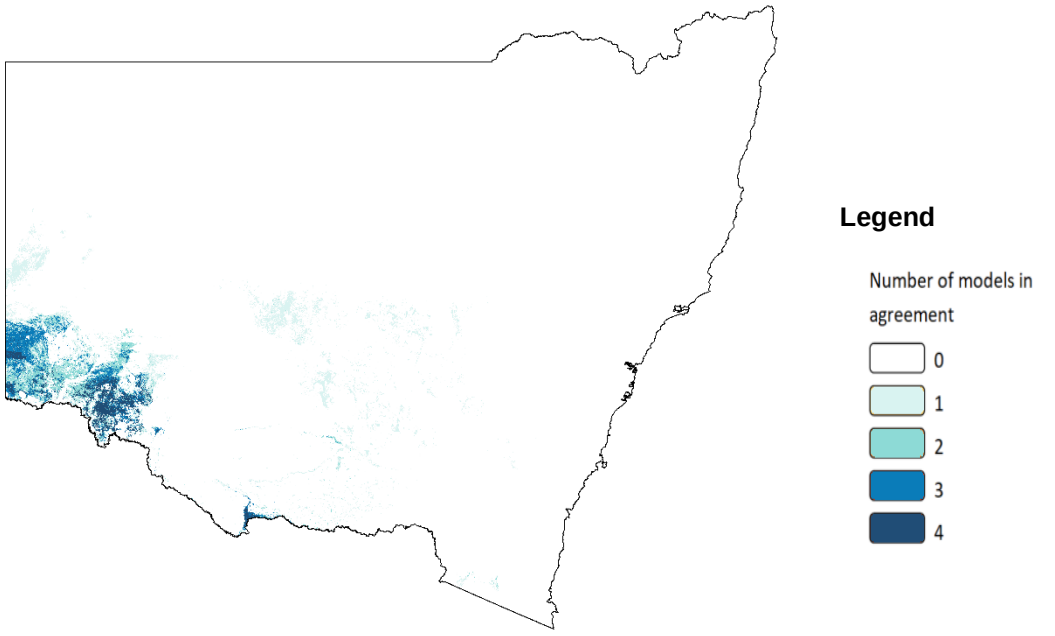
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	60 - 1,250 m
Species dispersal movement	1100 - 5,000 m
Minimum habitat for viable population	20 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Spotted harrier species forecast to 2070

Scientific name: *Circus assimilis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	41%	32%	27%
Landscape capacity from 2000	244%	100%	78%	66%

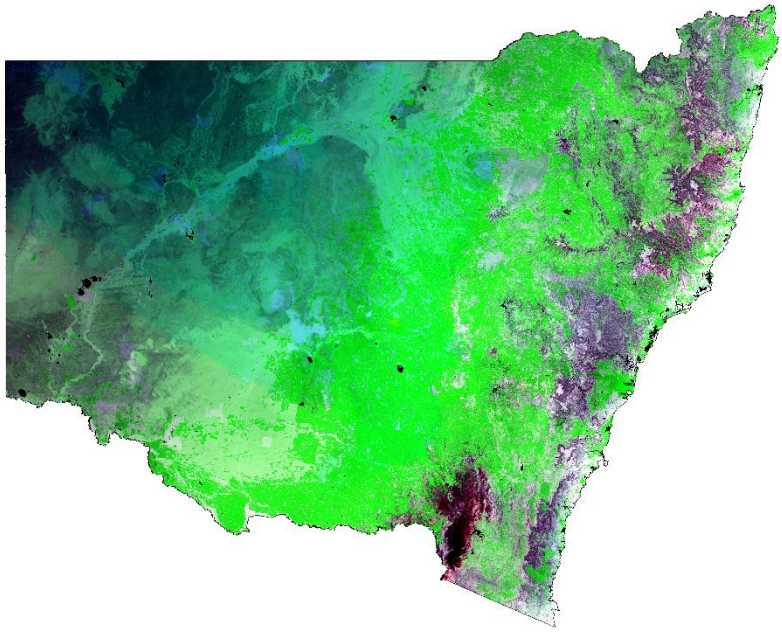
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

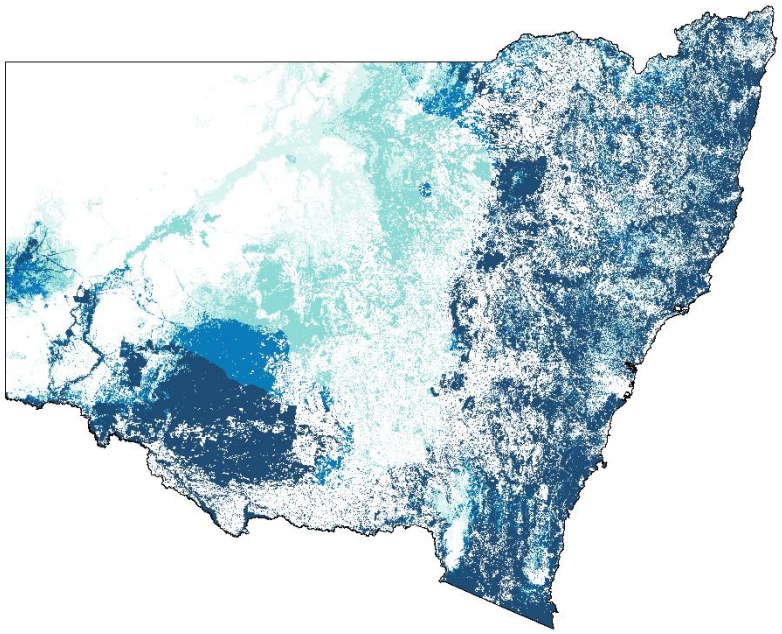
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Brown treecreeper (eastern subspecies) species forecast to 2070

Scientific name: *Climacteris picumnus victoriae*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	39%	23%	22%
Landscape capacity from 2000	256%	100%	59%	56%

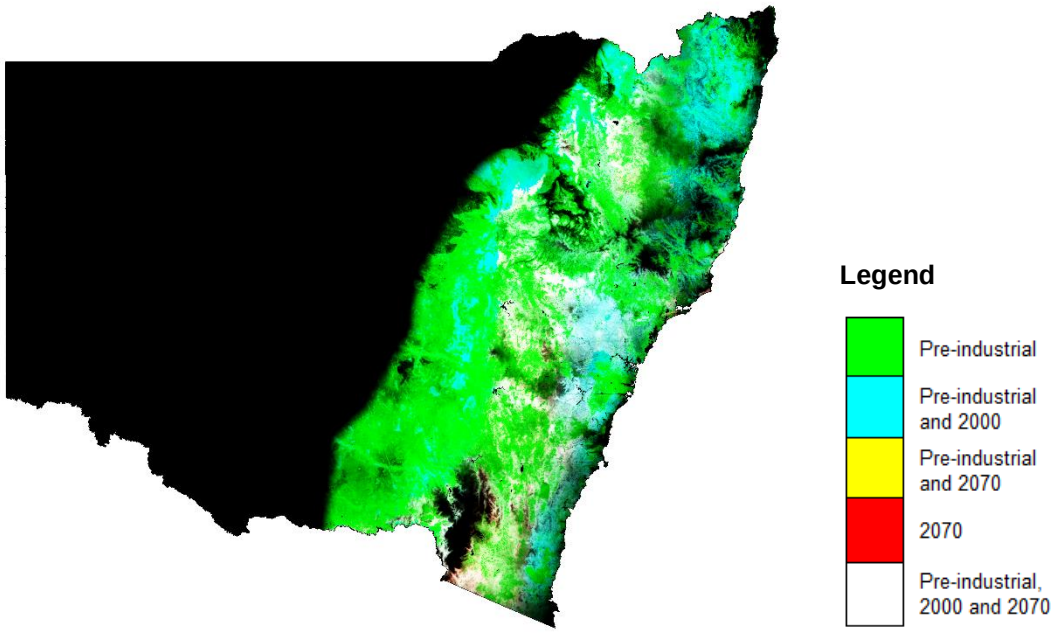
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

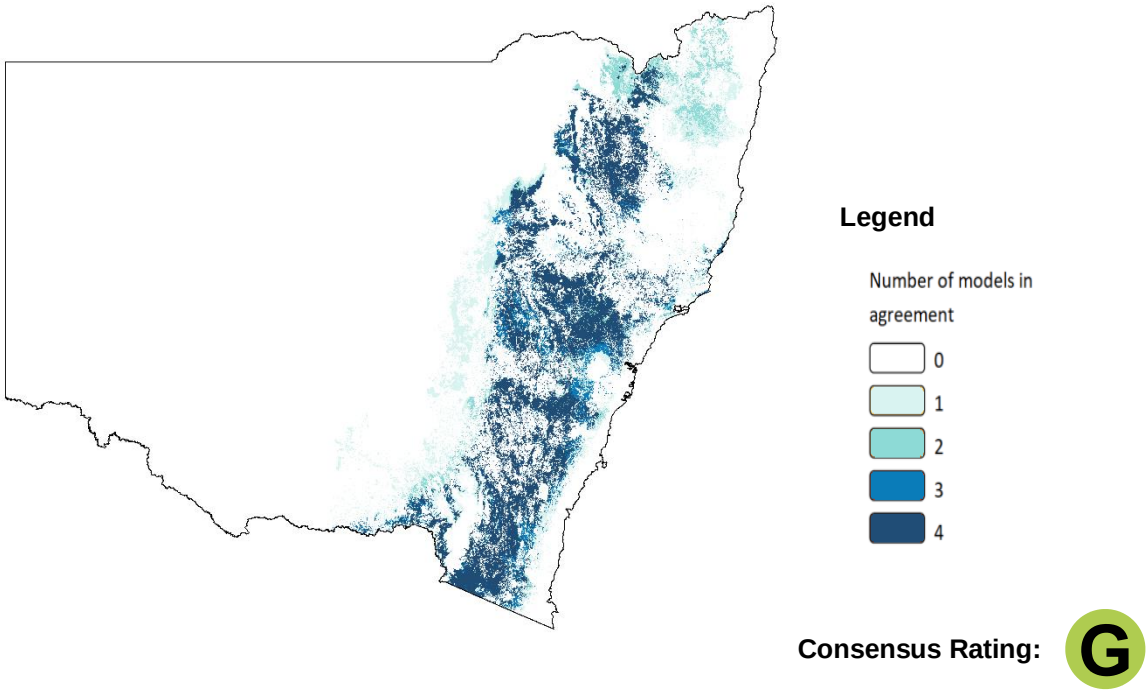
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	70 - 1,000 m
Species dispersal movement	1,500 - 3,500 m
Minimum habitat for viable population	40 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Barred cuckoo-shrike species forecast to 2070

Scientific name: *Coracina lineata*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	58%	40%	40%
Landscape capacity from 2000	172%	100%	69%	69%

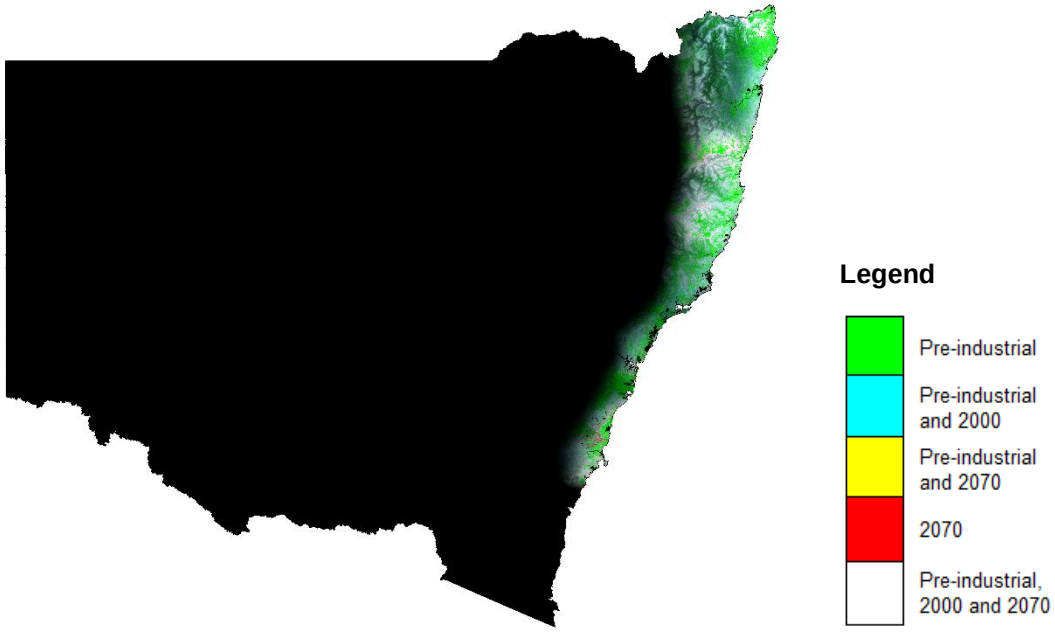
Predicted range shift

Projected landscape capacity is contracting.

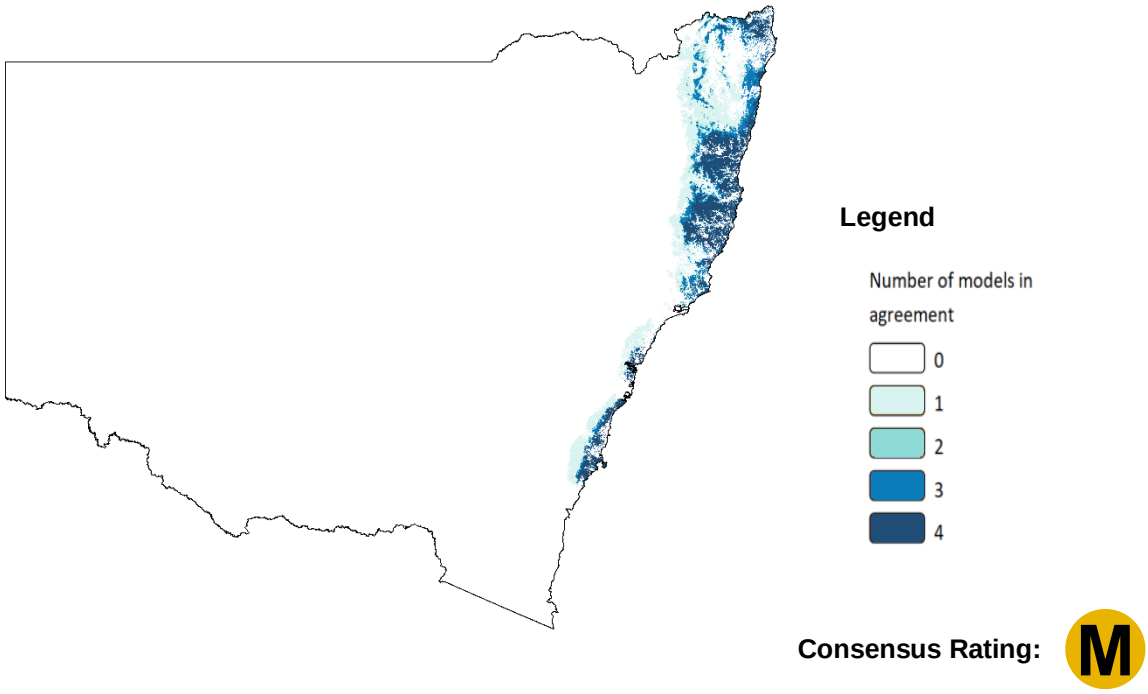
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Coxen's fig-parrot species forecast to 2070

Scientific name: *Cyclopsitta diophthalma coxeni*

Conservation status in NSW: Critically Endangered

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	58%	47%	38%
Landscape capacity from 2000	172%	100%	81%	66%

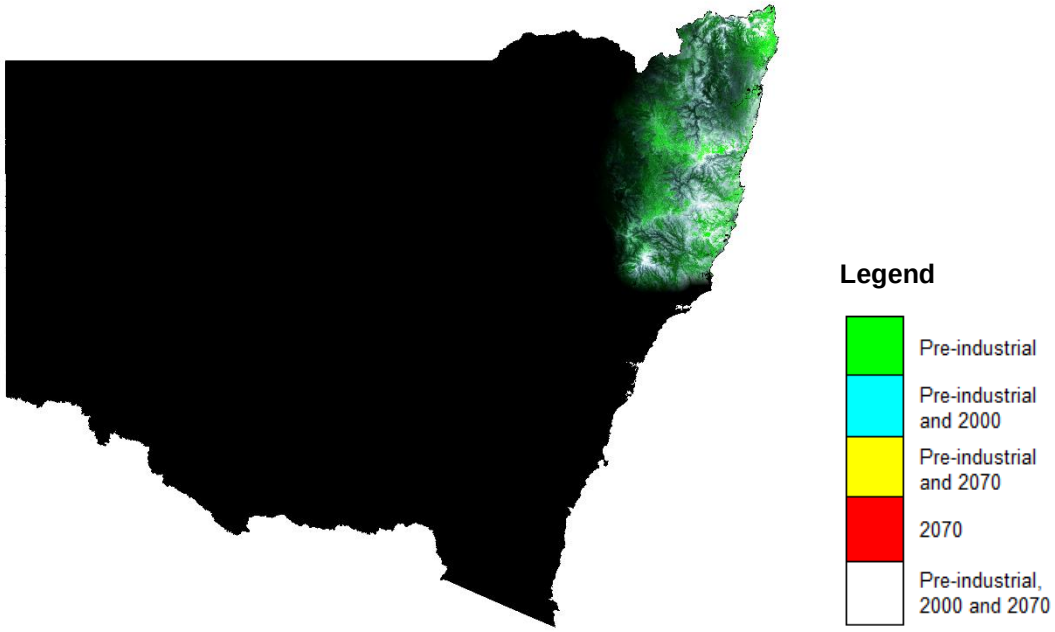
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

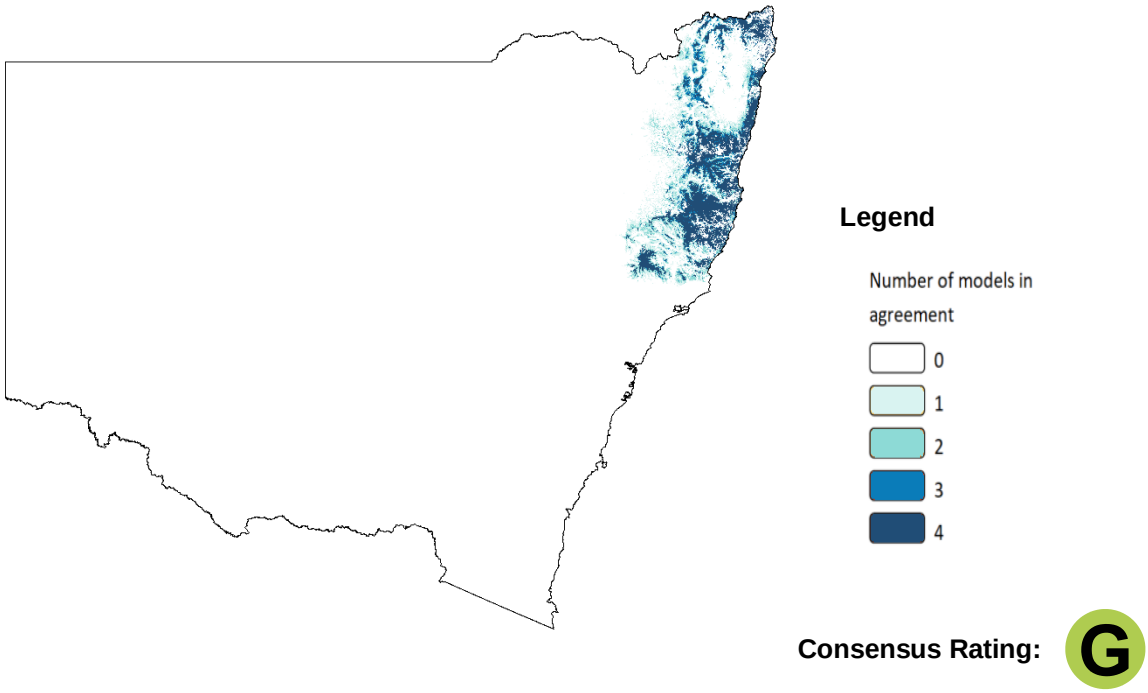
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	2,000 - 5,000 m
Species dispersal movement	5,000 - 50,000 m
Minimum habitat for viable population	2500 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Varied sittella species forecast to 2070

Scientific name: *Daphoenositta chrysoptera*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	46%	41%	36%
Landscape capacity from 2000	217%	100%	89%	78%

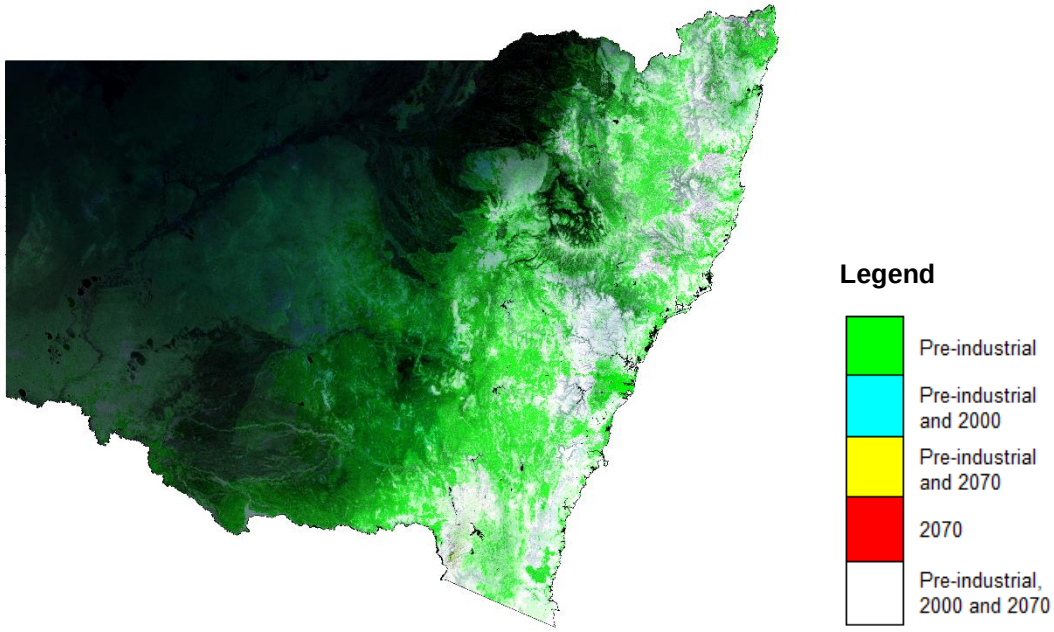
Predicted range shift

Projected landscape capacity is contracting.

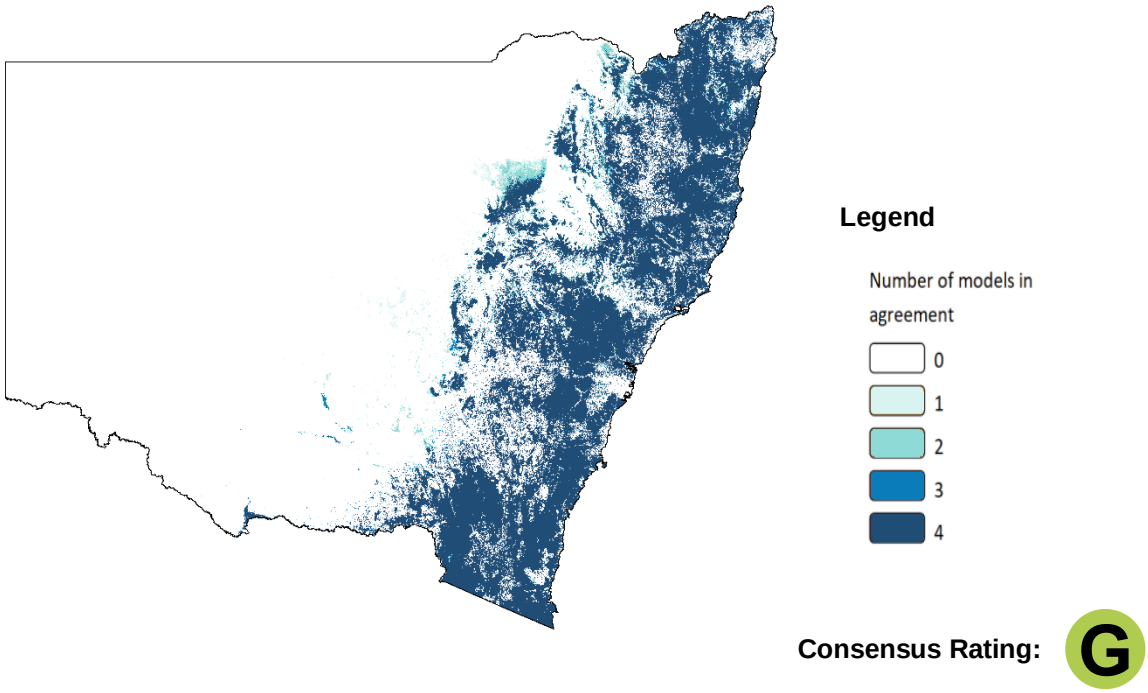
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	1,000 - 2,000 m
Species dispersal movement	3,000 - 7,500 m
Minimum habitat for viable population	1,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Eastern bristlebird species forecast to 2070

Scientific name: *Dasyornis brachypterus*

Conservation status in NSW: Endangered

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	62%	43%	56%
Landscape capacity from 2000	161%	100%	69%	90%

Predicted range shift

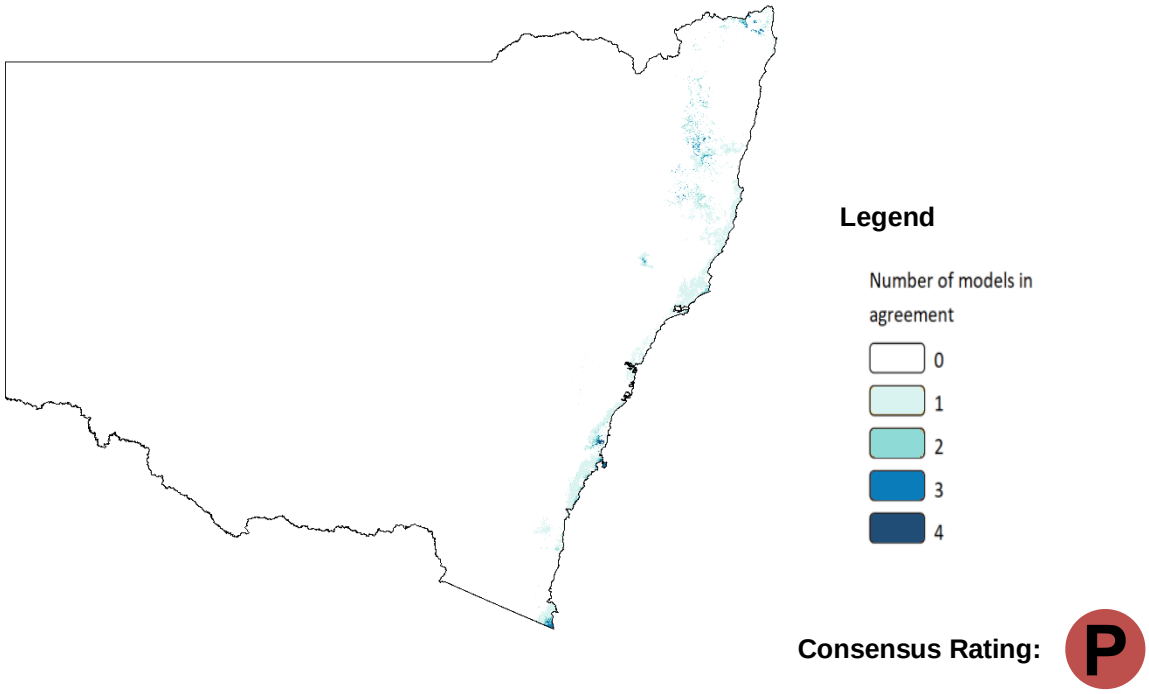
Projected landscape capacity is shifting to a new range.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 500 m
Species dispersal movement	525 - 5,000 m
Minimum habitat for viable population	750 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: P

Little lorikeet species forecast to 2070

Scientific name: *Glossopsitta pusilla*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	39%	39%
Landscape capacity from 2000	222%	100%	87%	87%

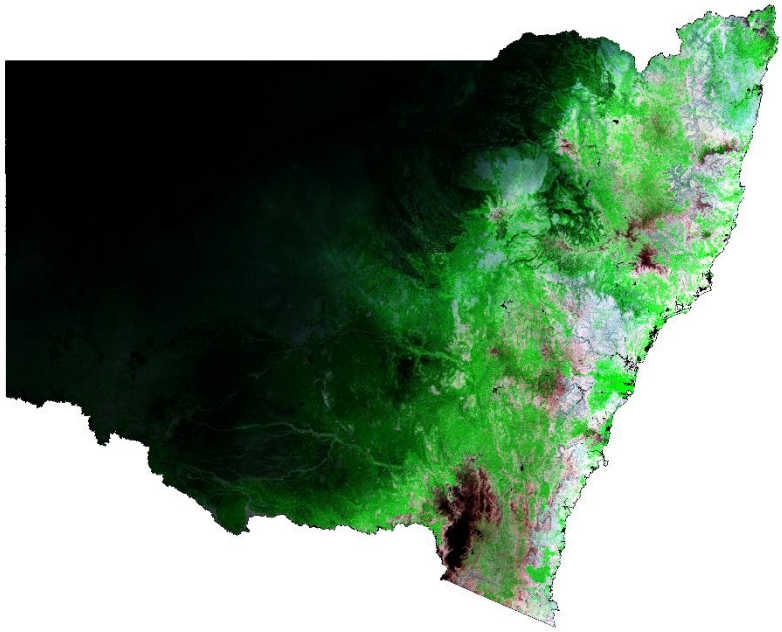
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	500 - 2,000 m
Species dispersal movement	5,000 - 200,000 m
Minimum habitat for viable population	5,000 ha

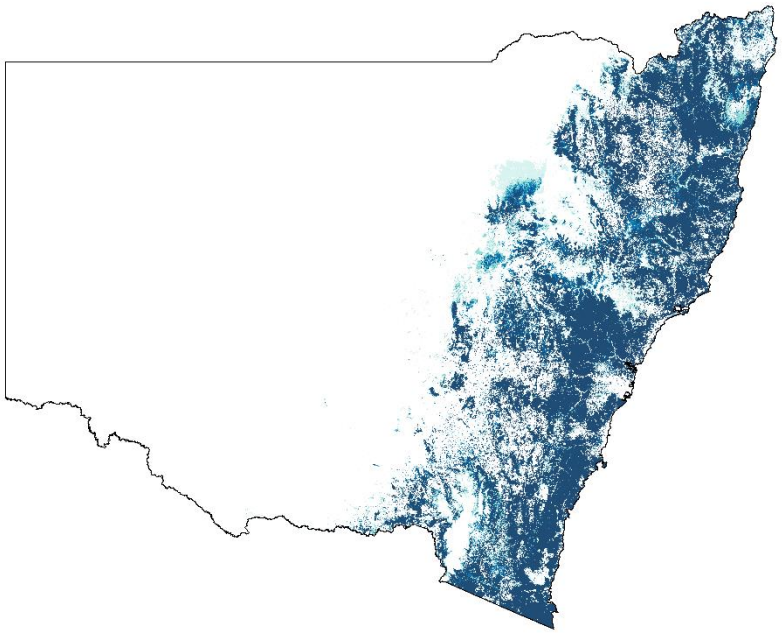
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: G

Painted honeyeater species forecast to 2070

Scientific name: *Grantiella picta*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	69%	50%	40%
Landscape capacity from 2000	145%	100%	72%	58%

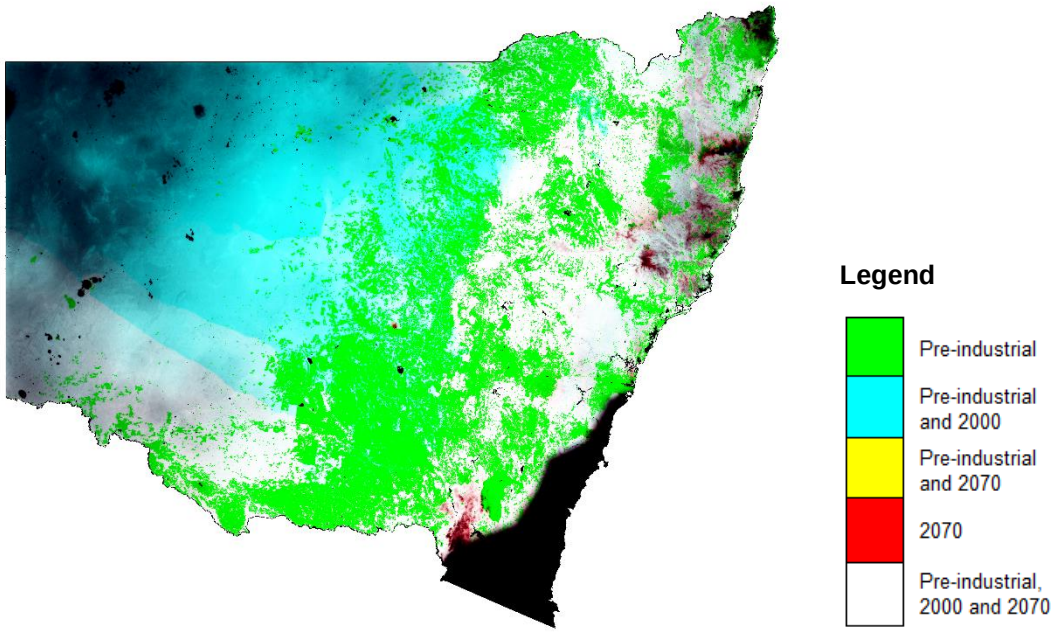
Predicted range shift

Projected landscape capacity is contracting, and moving east.

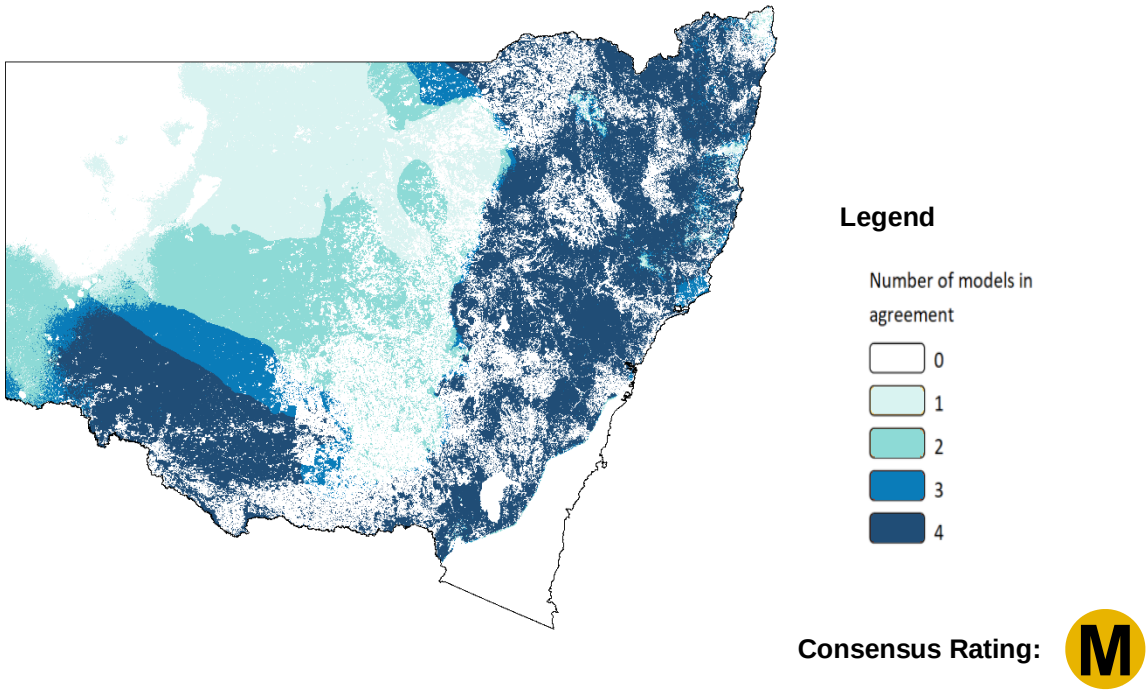
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	200 - 1,250 m
Species dispersal movement	300 - 7,500 m
Minimum habitat for viable population	20 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

White-bellied sea-eagle species forecast to 2070

Scientific name: *Haliaeetus leucogaster*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	100%	83%	81%
Landscape capacity from 2000	100%	100%	83%	81%

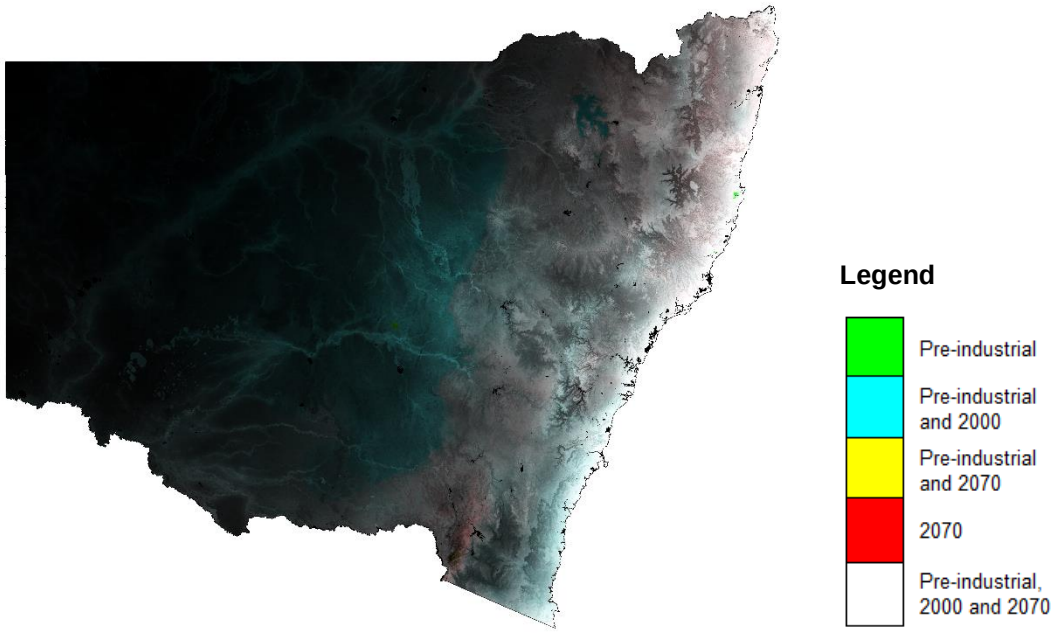
Predicted range shift

Projected landscape capacity is contracting.

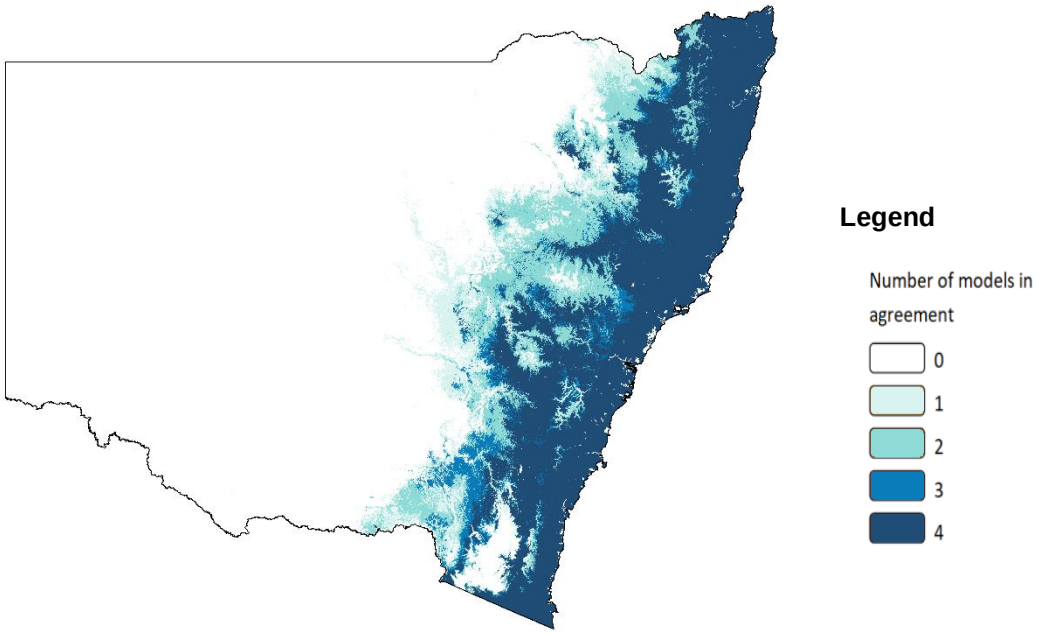
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Little eagle species forecast to 2070

Scientific name: *Hieraaetus morphnoides*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	67%	55%	45%
Landscape capacity from 2000	149%	100%	82%	67%

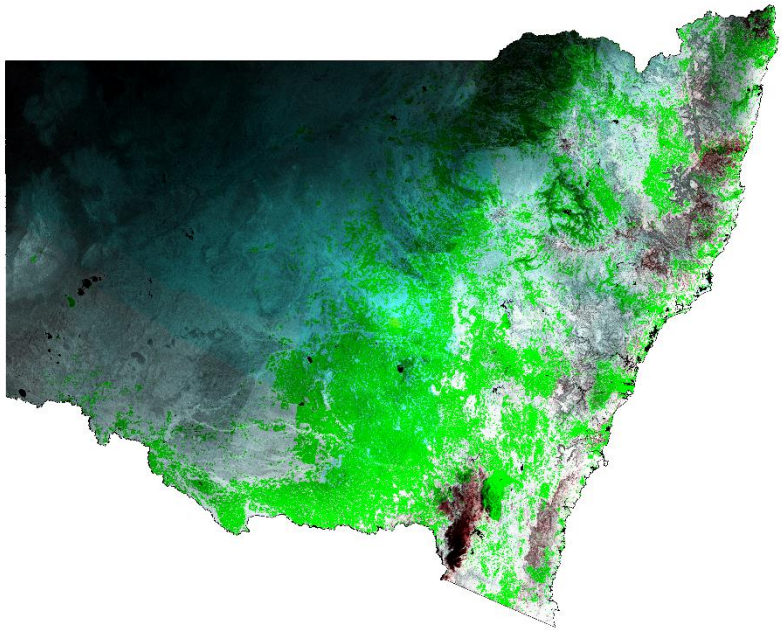
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

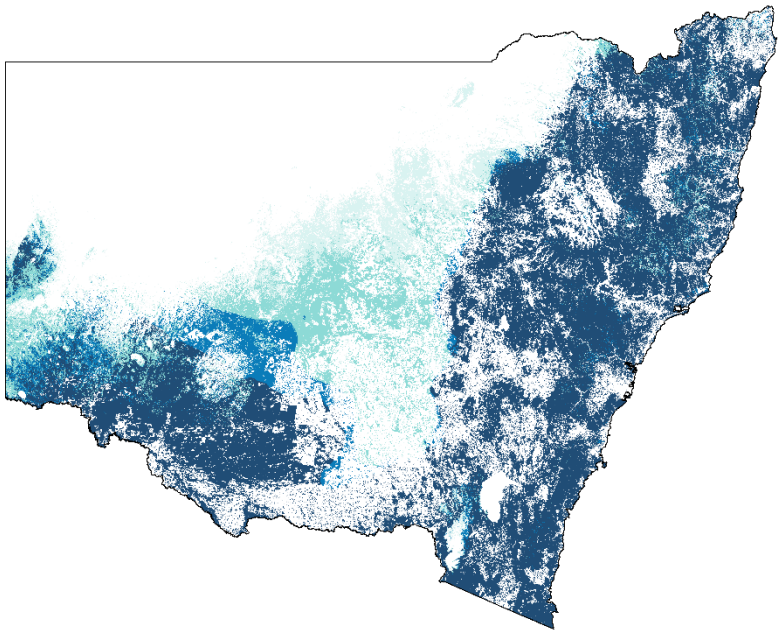
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Black bittern species forecast to 2070

Scientific name: *Ixobrychus flavicollis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	37%	22%	24%
Landscape capacity from 2000	270%	100%	59%	65%

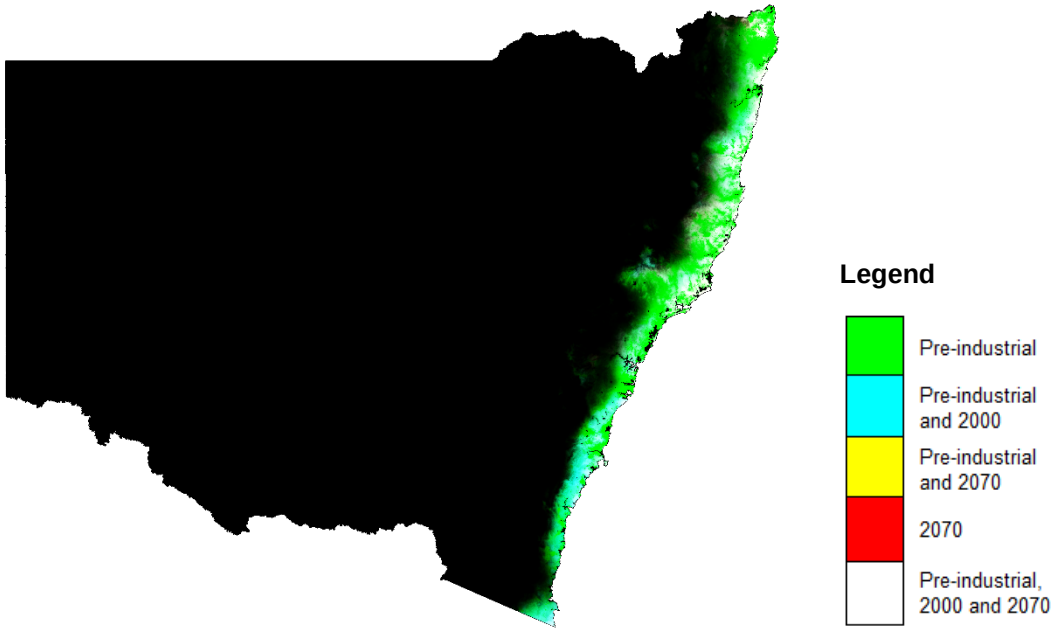
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

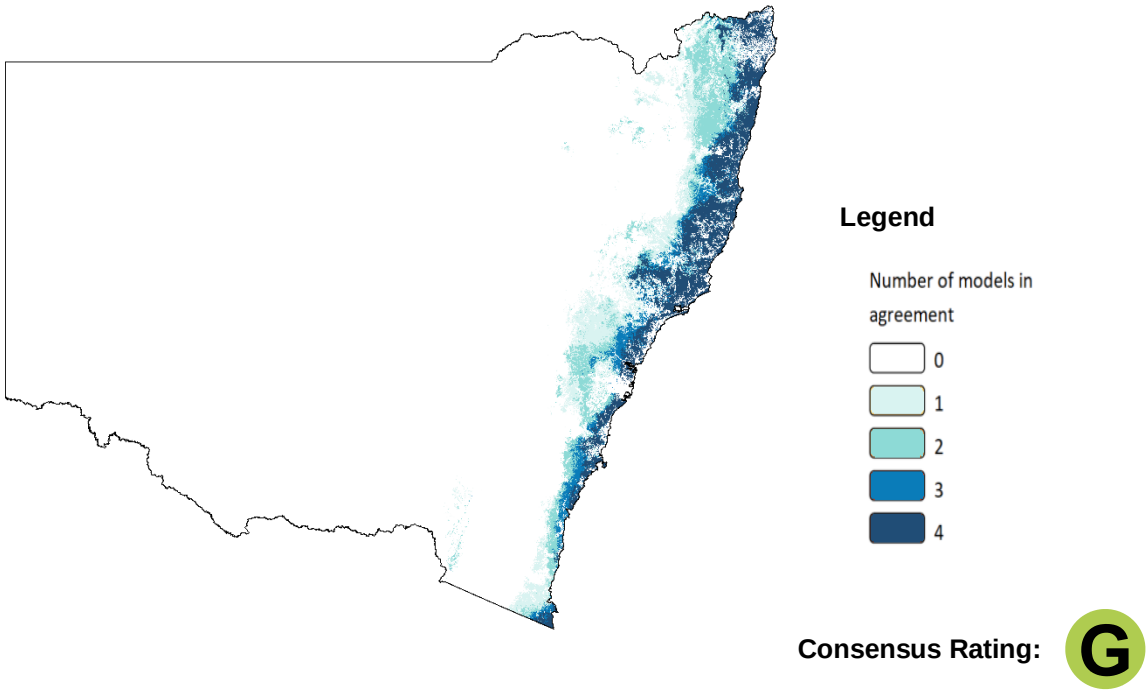
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	100 - 1,000 m
Species dispersal movement	1,000 - 10,000 m
Minimum habitat for viable population	500 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Swift parrot species forecast to 2070

Scientific name: *Lathamus discolor*

Conservation status in NSW: Endangered

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	62%	44%	38%
Landscape capacity from 2000	161%	100%	71%	61%

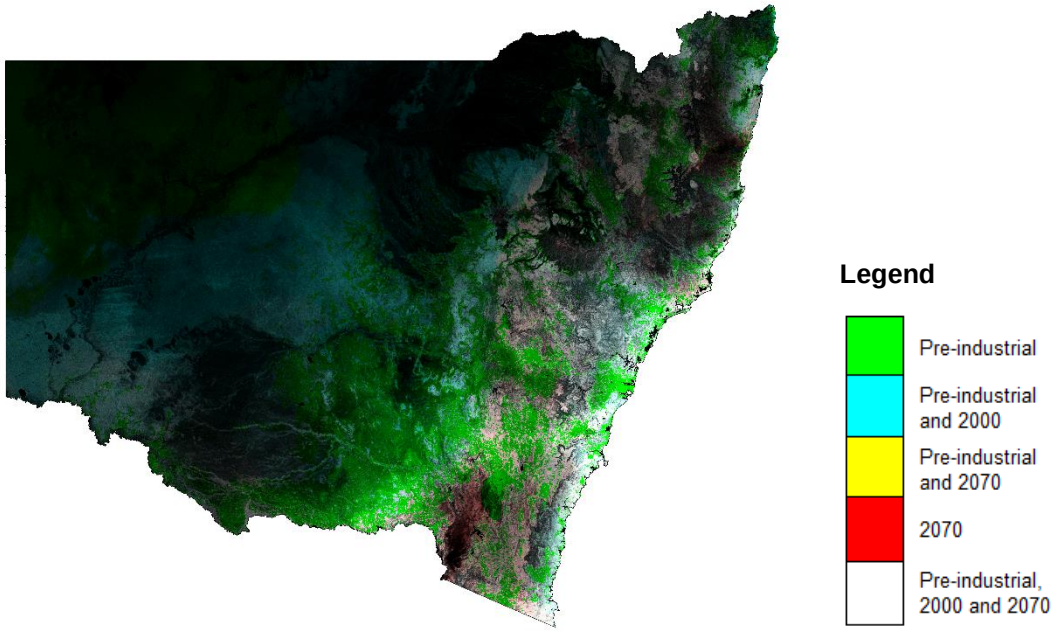
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

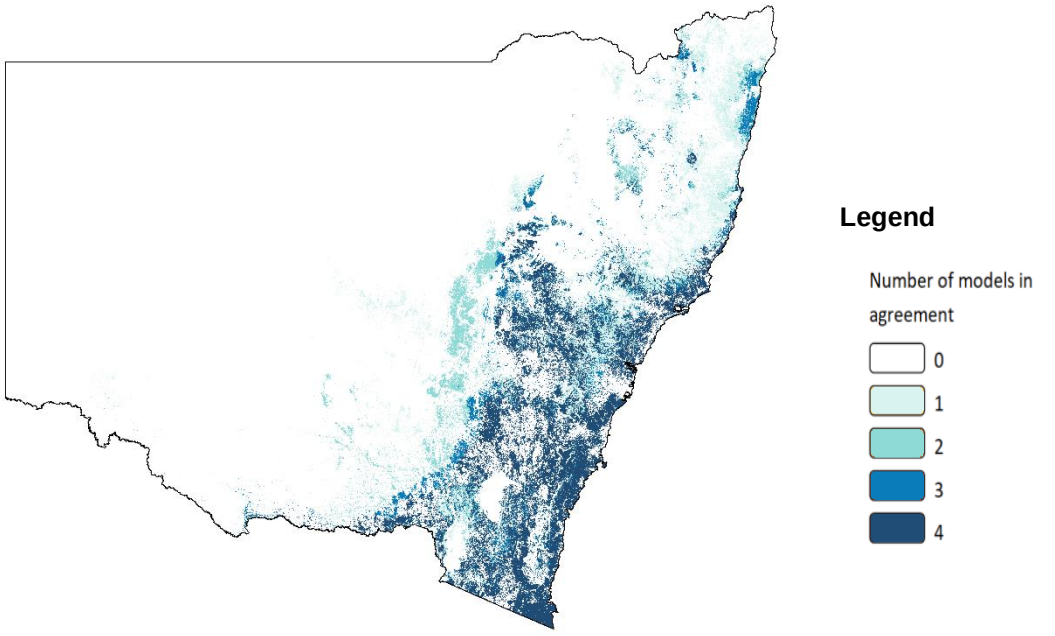
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Major mitchell's cockatoo species forecast to 2070

Scientific name: *Lophochroa leadbeateri*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	44%	22%	18%
Landscape capacity from 2000	227%	100%	50%	41%

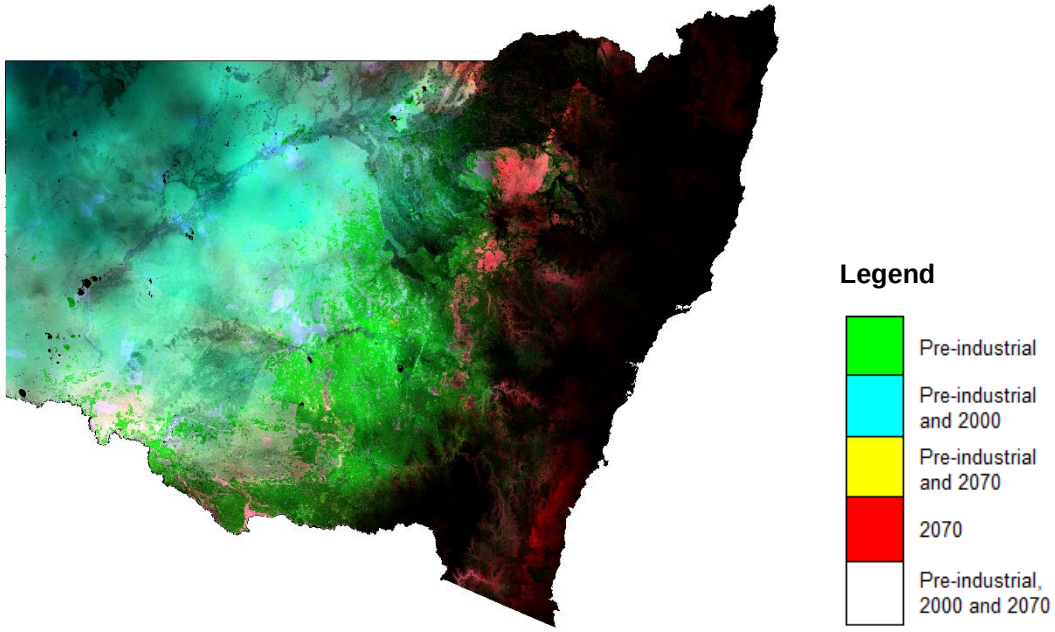
Predicted range shift

Projected landscape capacity is shifting to a new range, and moving east.

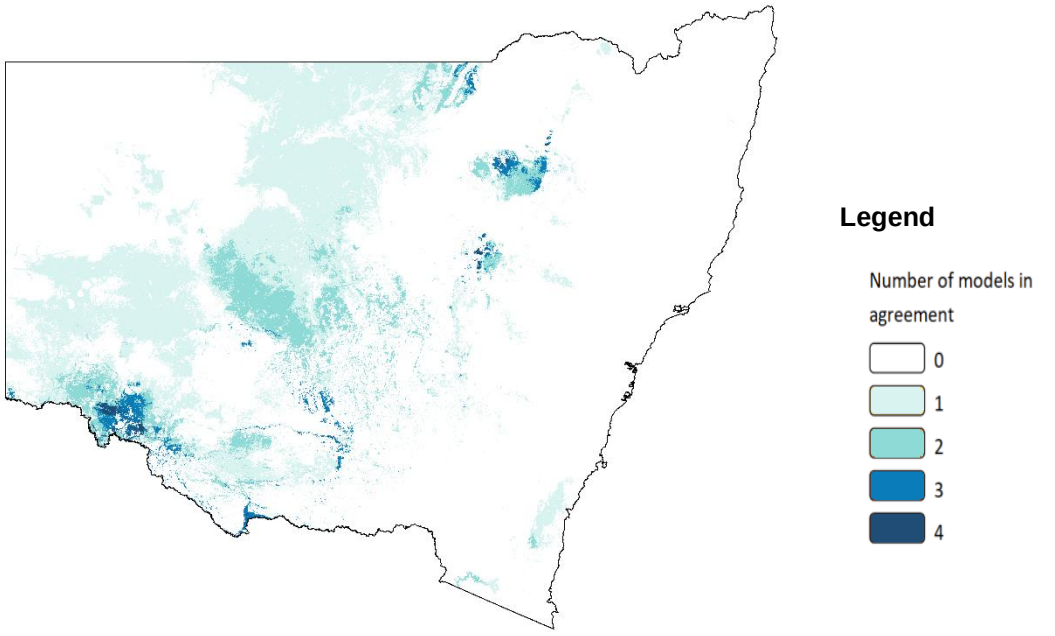
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Hooded robin (south-eastern form) species forecast to 2070

Scientific name: *Melanodryas cucullata cucullata*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	69%	52%	41%
Landscape capacity from 2000	145%	100%	75%	59%

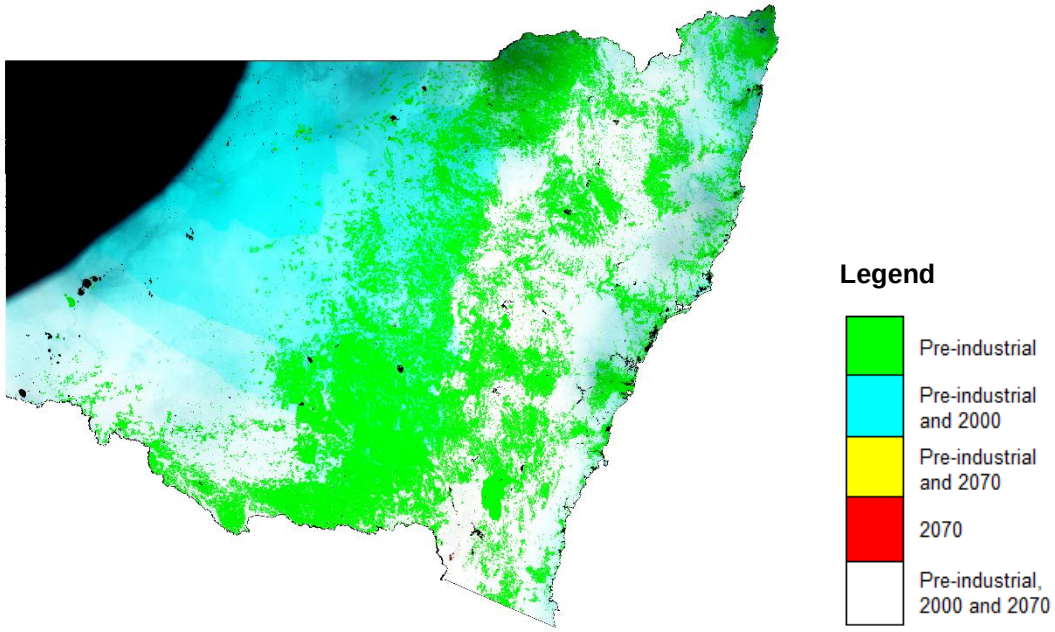
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

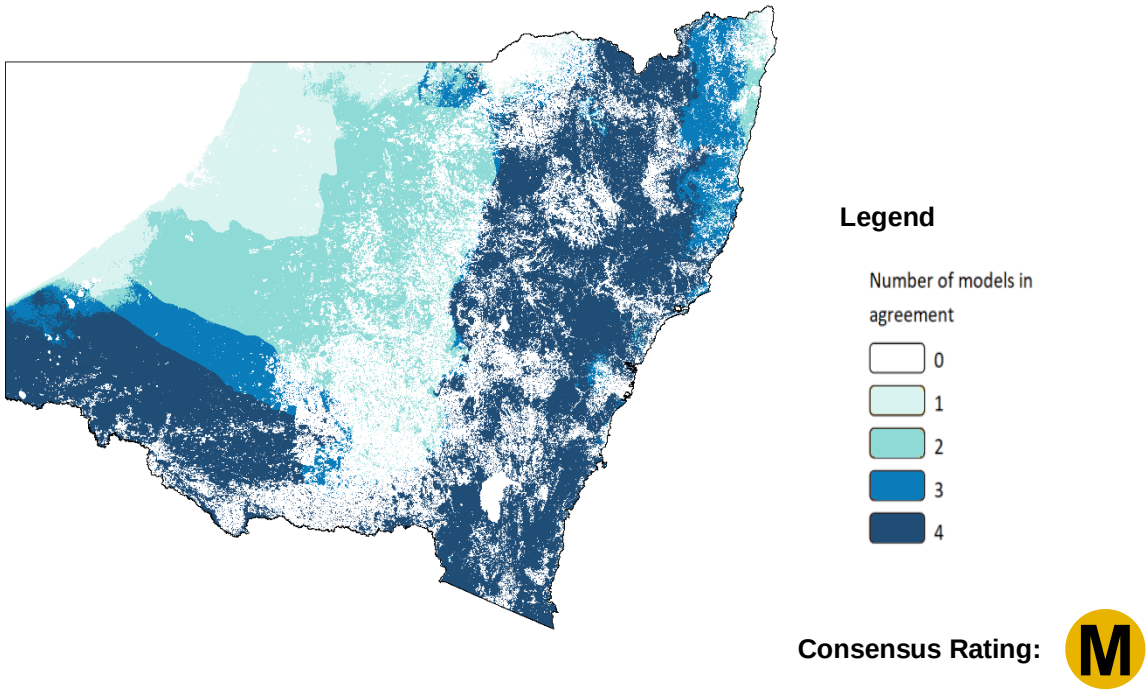
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	400 - 600 m
Species dispersal movement	5,000 - 20,000 m
Minimum habitat for viable population	300 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Black-chinned honeyeater (eastern subspecies) species forecast to 2070

Scientific name: *Melithreptus gularis gularis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	20%	20%	18%
Landscape capacity from 2000	500%	100%	100%	90%

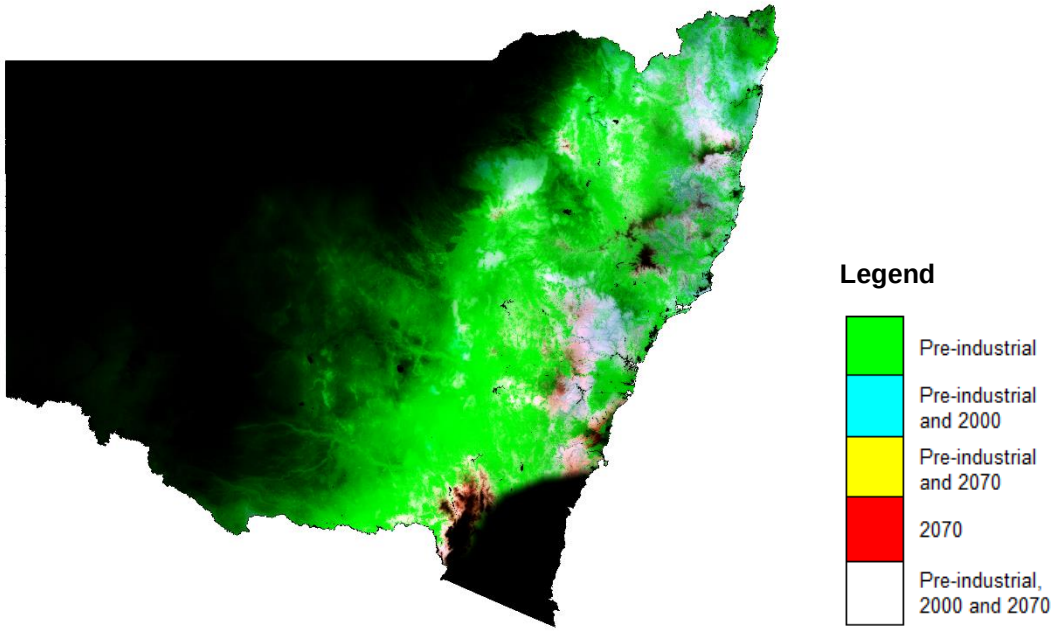
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is shifting to a new range.

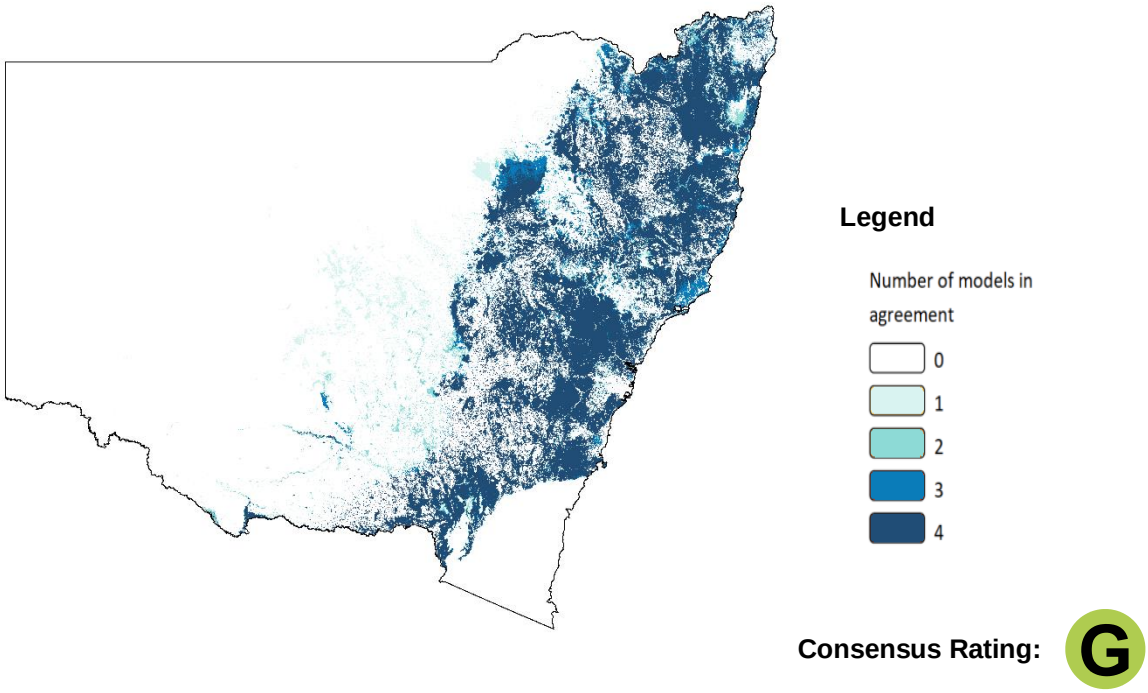
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	1000 - 2000 m
Species dispersal movement	5,000 - 7,000 m
Minimum habitat for viable population	5,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Albert's lyrebird species forecast to 2070

Scientific name: *Menura alberti*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	20%	12%	6%
Landscape capacity from 2000	500%	100%	60%	30%

Predicted range shift

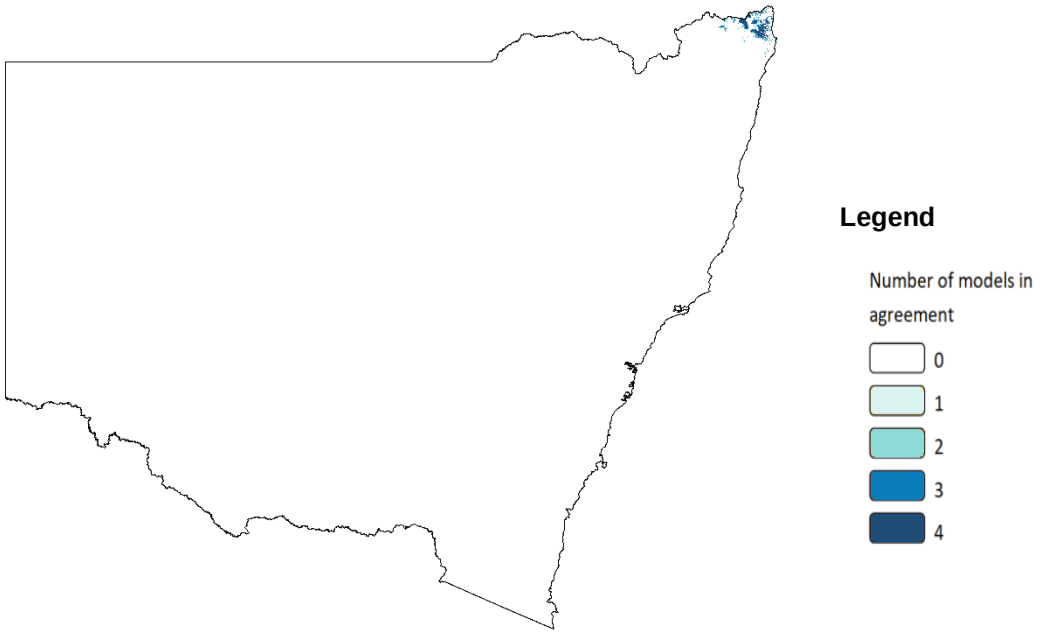
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	125 - 500 m
Species dispersal movement	4,000 - 7,000 m
Minimum habitat for viable population	6,000 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: G

Turquoise parrot species forecast to 2070

Scientific name: *Neophema pulchella*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	44%	45%	43%
Landscape capacity from 2000	227%	100%	102%	98%

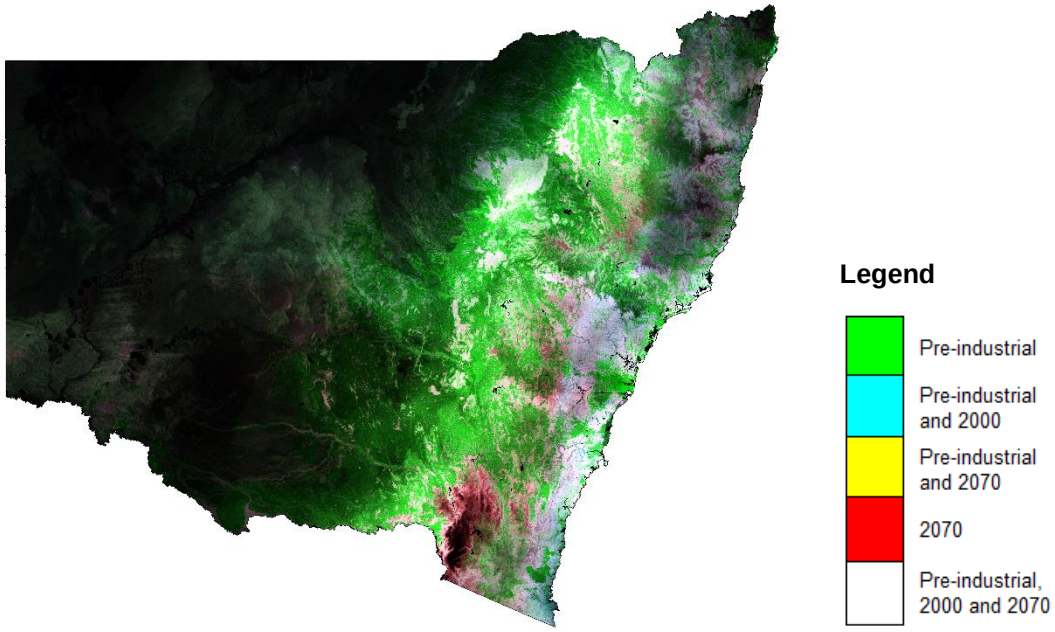
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is shifting to a new range.

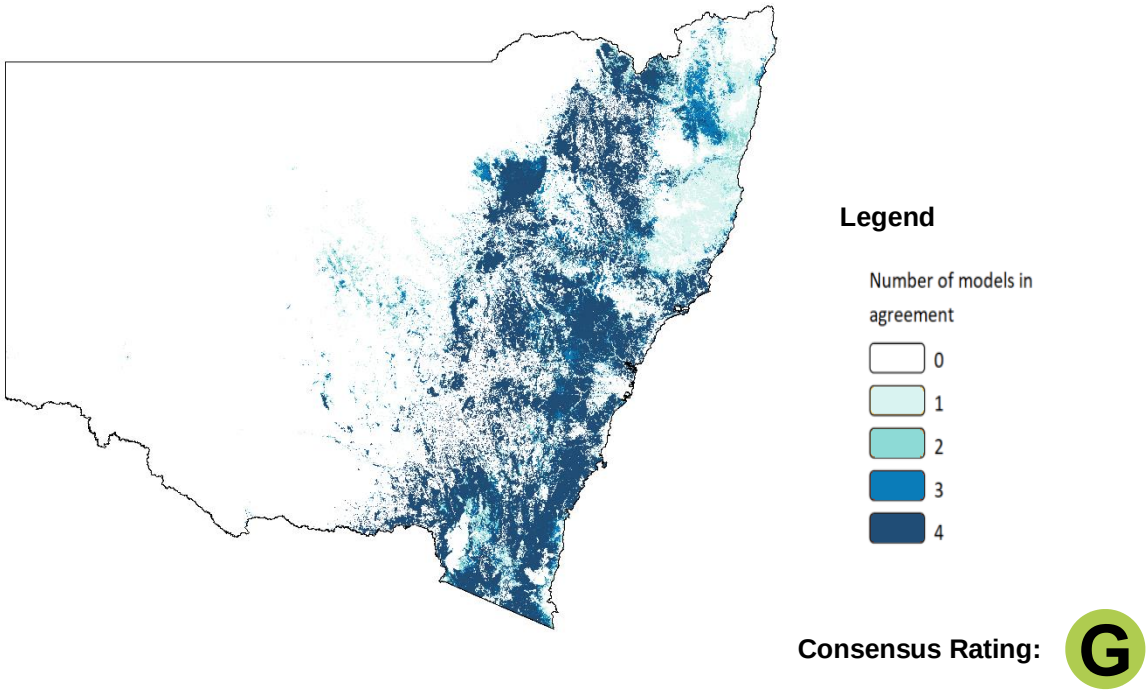
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 500 m
Species dispersal movement	1,000 - 10,000 m
Minimum habitat for viable population	5,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Barking owl species forecast to 2070

Scientific name: *Ninox connivens*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	69%	63%	64%
Landscape capacity from 2000	145%	100%	91%	93%

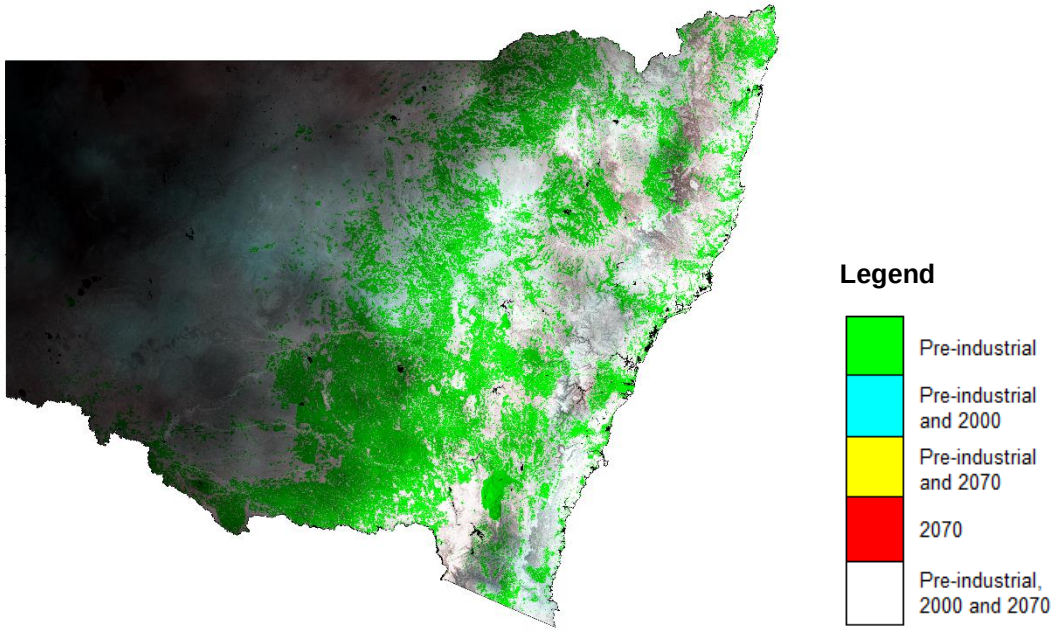
Predicted range shift

Projected landscape capacity is mostly stable.

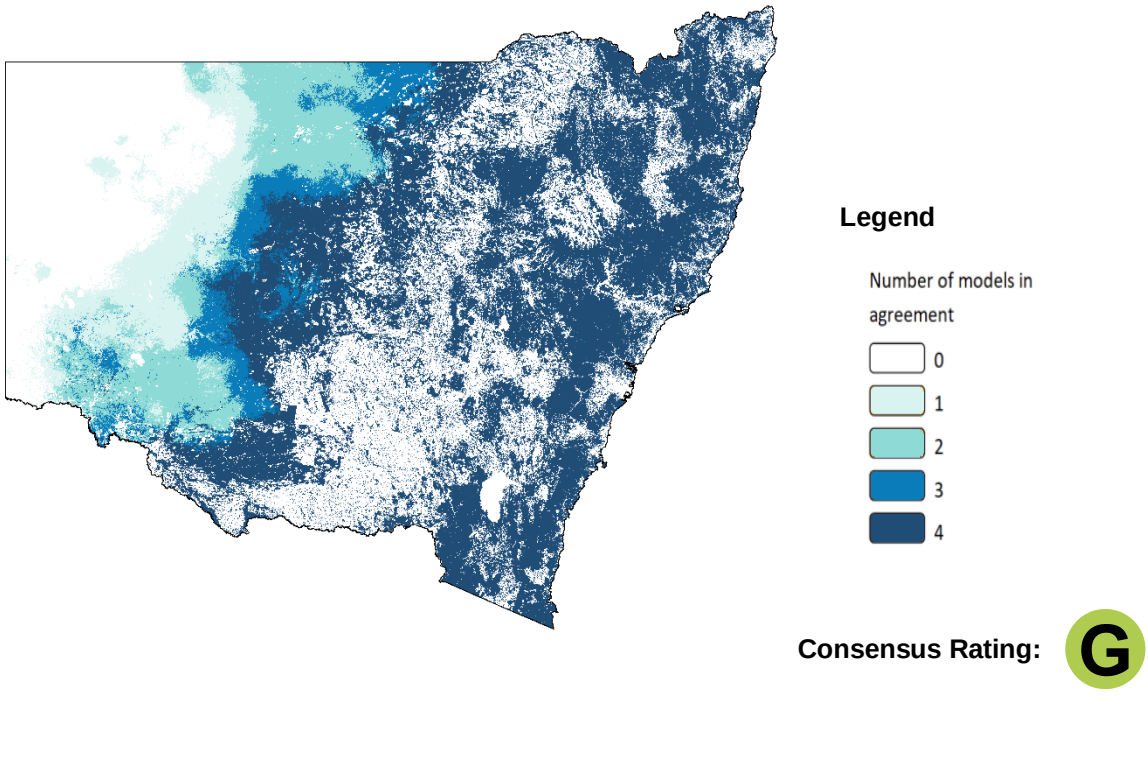
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	2,000 - 4,000 m
Species dispersal movement	10,000 - 20,000 m
Minimum habitat for viable population	100,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Powerful owl species forecast to 2070

Scientific name: *Ninox strenua*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	49%	41%	36%
Landscape capacity from 2000	204%	100%	84%	73%

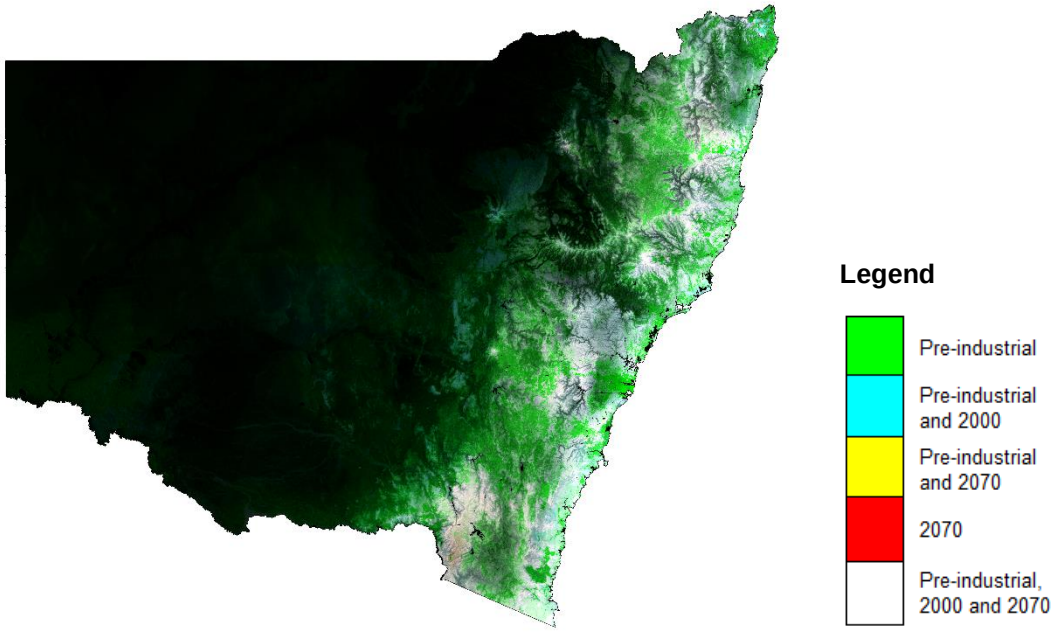
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

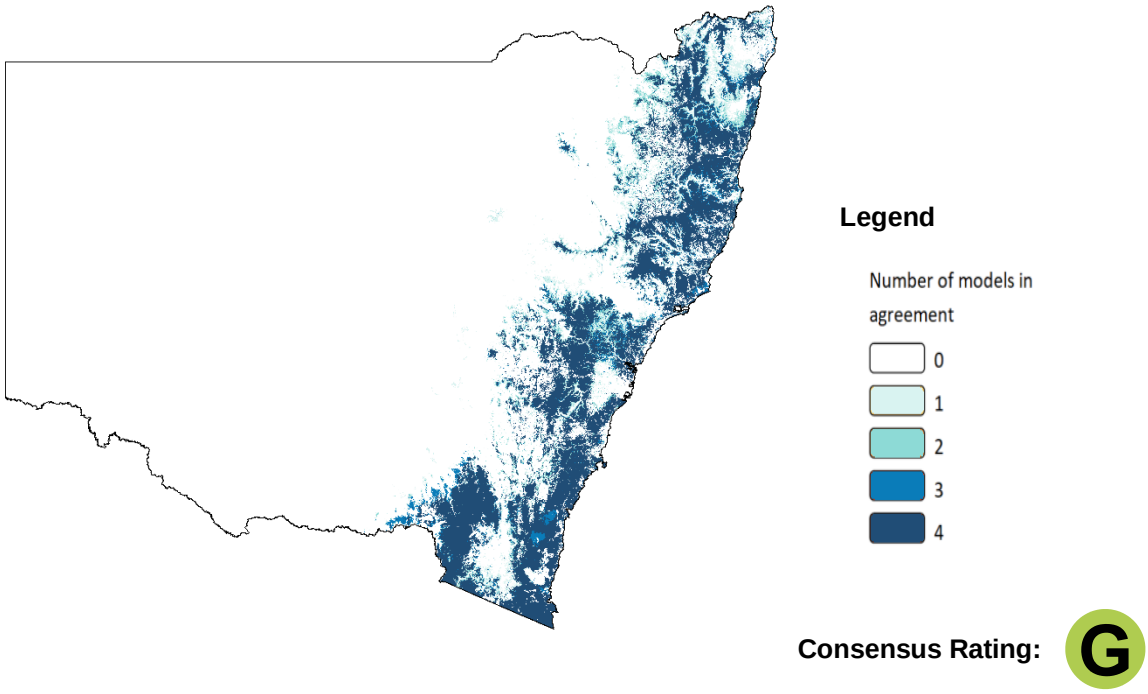
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	3,000 - 500,000 m
Species dispersal movement	45,000 - 1,000,000 m
Minimum habitat for viable population	62,395 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Blue-billed duck species forecast to 2070

Scientific name: *Oxyura australis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	100%	86%	71%
Landscape capacity from 2000	100%	100%	86%	71%

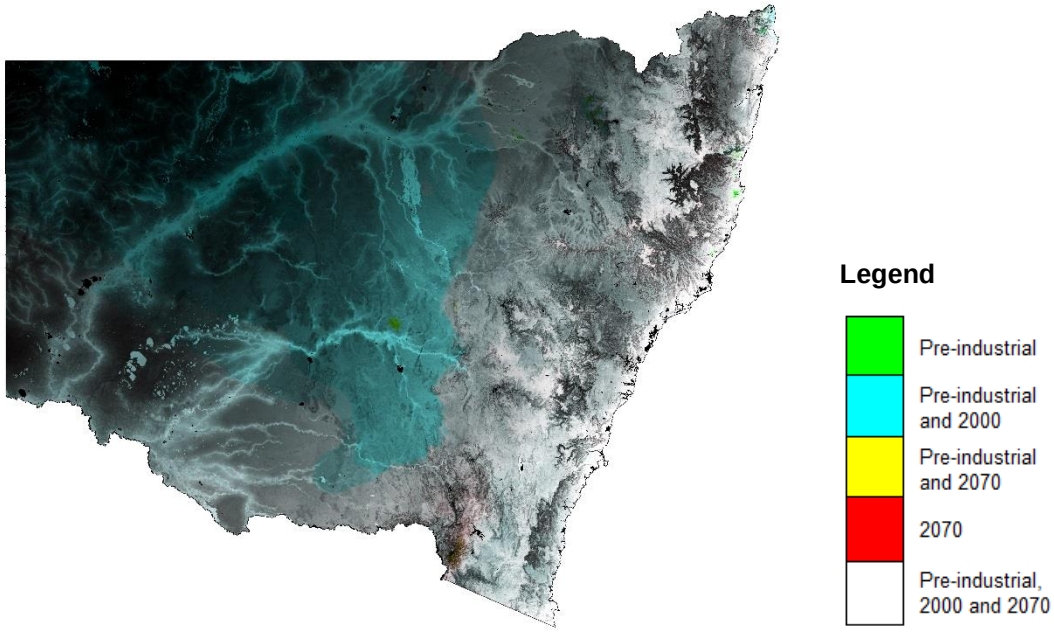
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

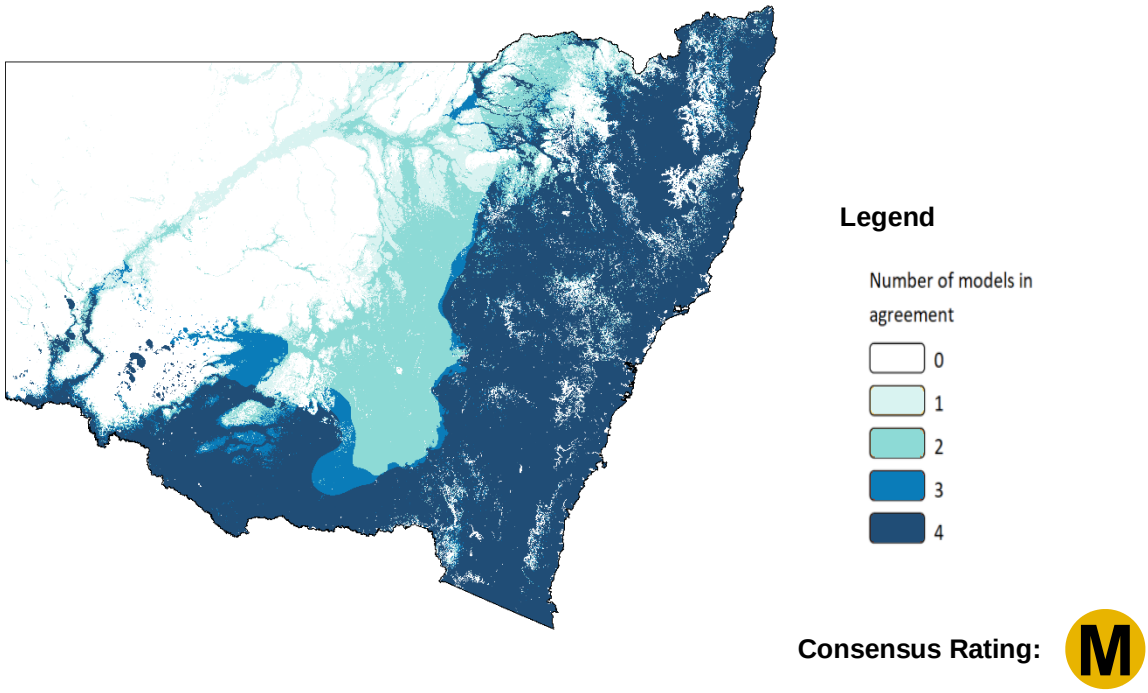
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Gilbert's whistler species forecast to 2070

Scientific name: *Pachycephala inornata*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	67%	36%	16%
Landscape capacity from 2000	149%	100%	54%	24%

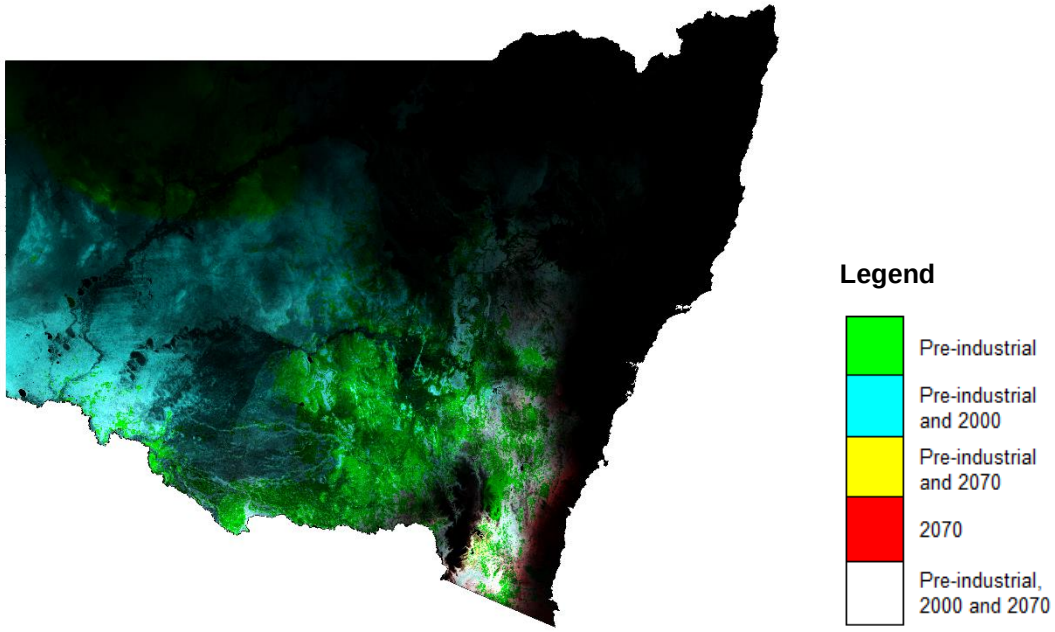
Predicted range shift

Projected landscape capacity is contracting, and moving east.

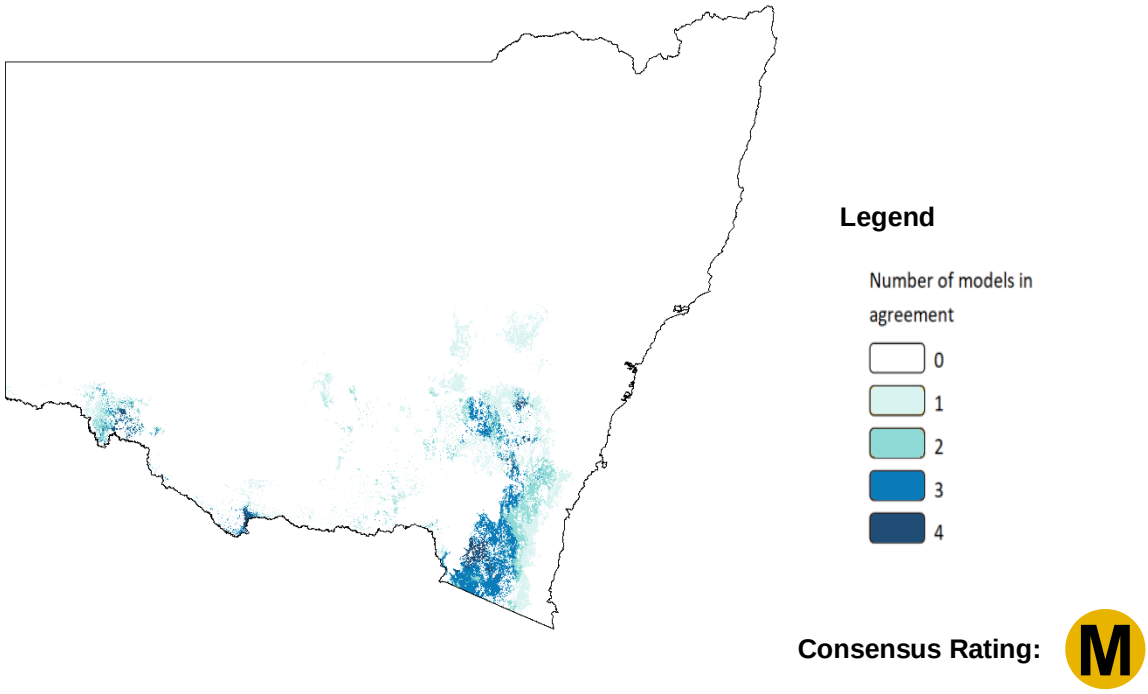
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	500 - 4,000 m
Species dispersal movement	2,000 - 40,000 m
Minimum habitat for viable population	20,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Olive whistler species forecast to 2070

Scientific name: *Pachycephala olivacea*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	27%	21%	14%
Landscape capacity from 2000	370%	100%	78%	52%

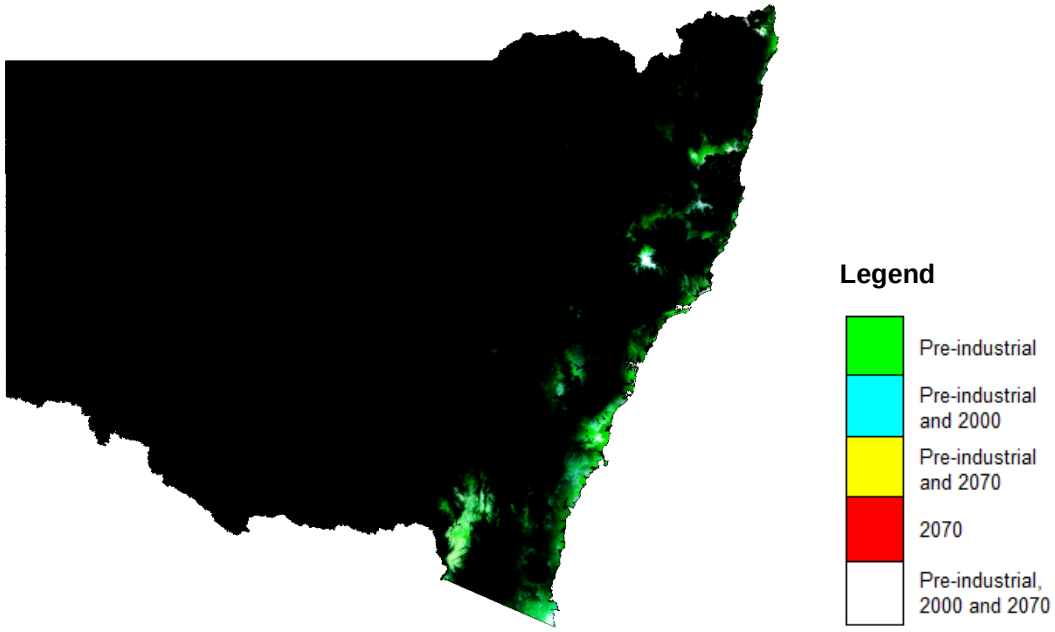
Predicted range shift

Projected landscape capacity is contracting.

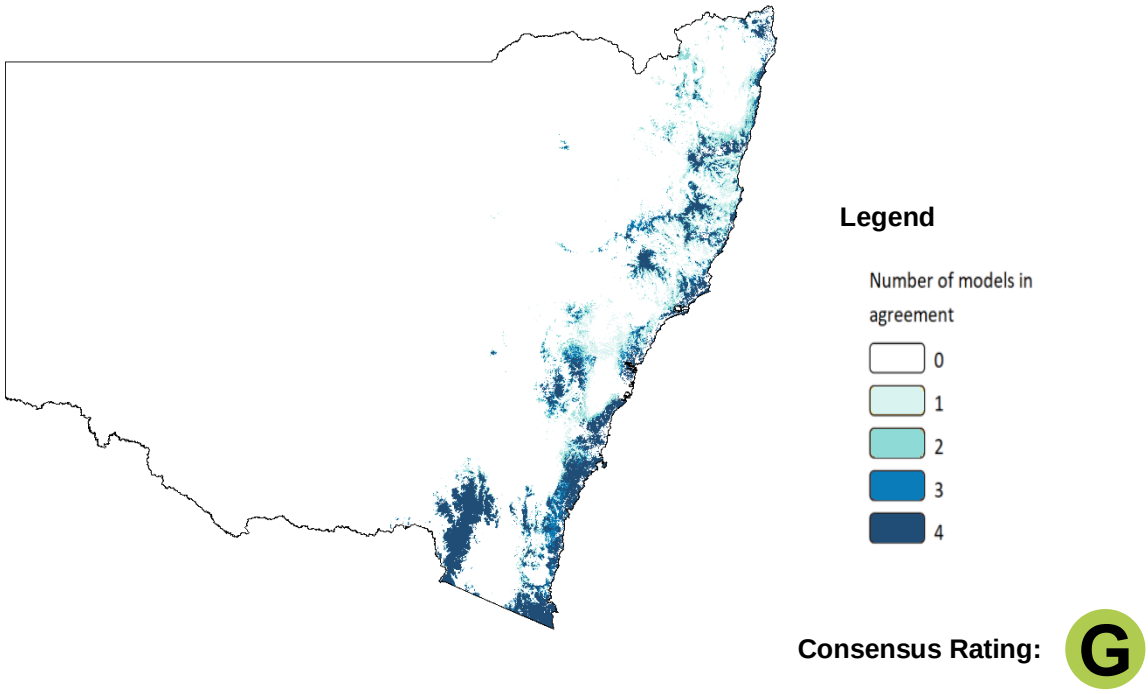
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 750 m
Species dispersal movement	400 - 6,400 m
Minimum habitat for viable population	1,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Eastern osprey species forecast to 2070

Scientific name: *Pandion cristatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	68%	36%	53%
Landscape capacity from 2000	147%	100%	53%	78%

Predicted range shift

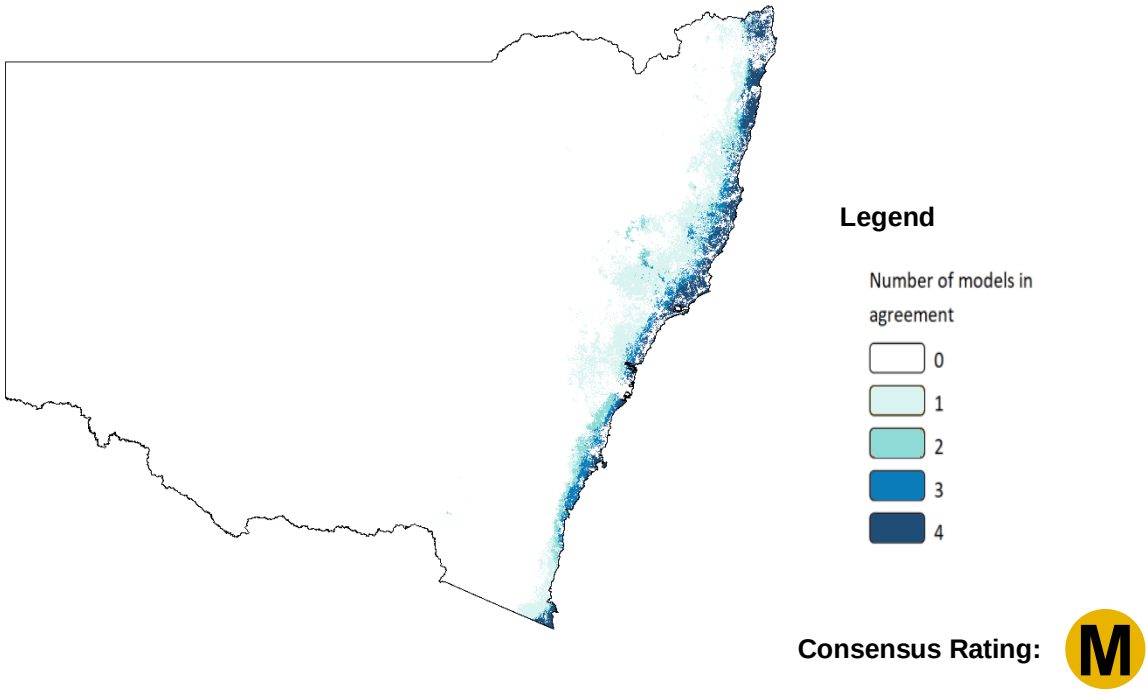
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	6,218 - 8,291 m
Species dispersal movement	3,228 - 6,457 m
Minimum habitat for viable population	70,437 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: M

Scarlet robin species forecast to 2070

Scientific name: *Petroica boodang*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	48%	46%	37%
Landscape capacity from 2000	208%	100%	96%	77%

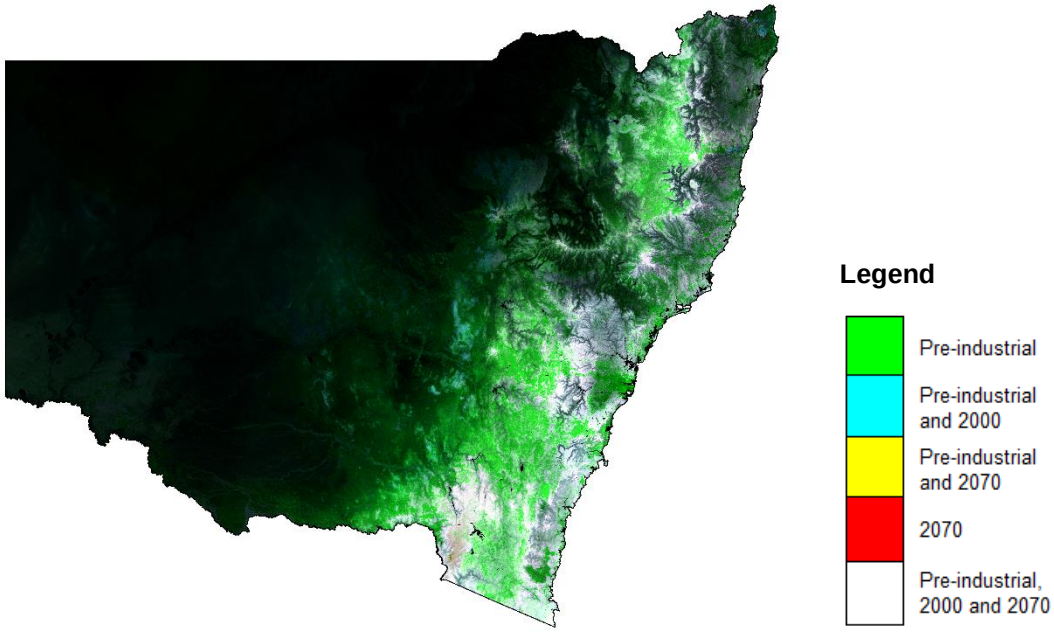
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

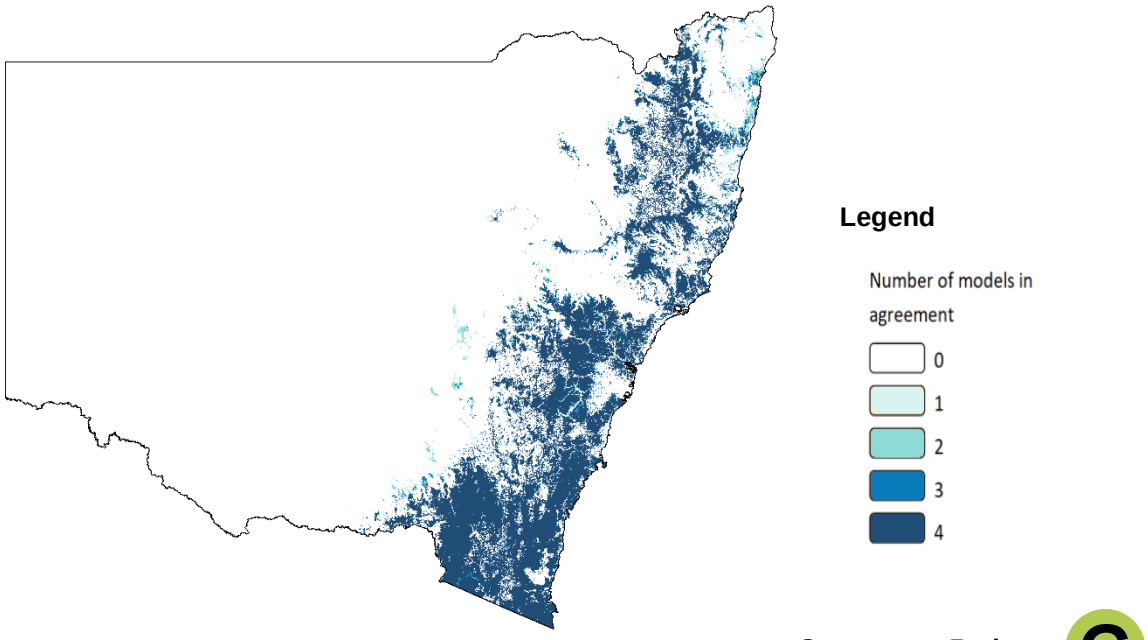
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	300 - 500 m
Species dispersal movement	10,000 - 20,000 m
Minimum habitat for viable population	200 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Flame robin species forecast to 2070

Scientific name: *Petroica phoenicea*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	48%	44%	26%
Landscape capacity from 2000	208%	100%	92%	54%

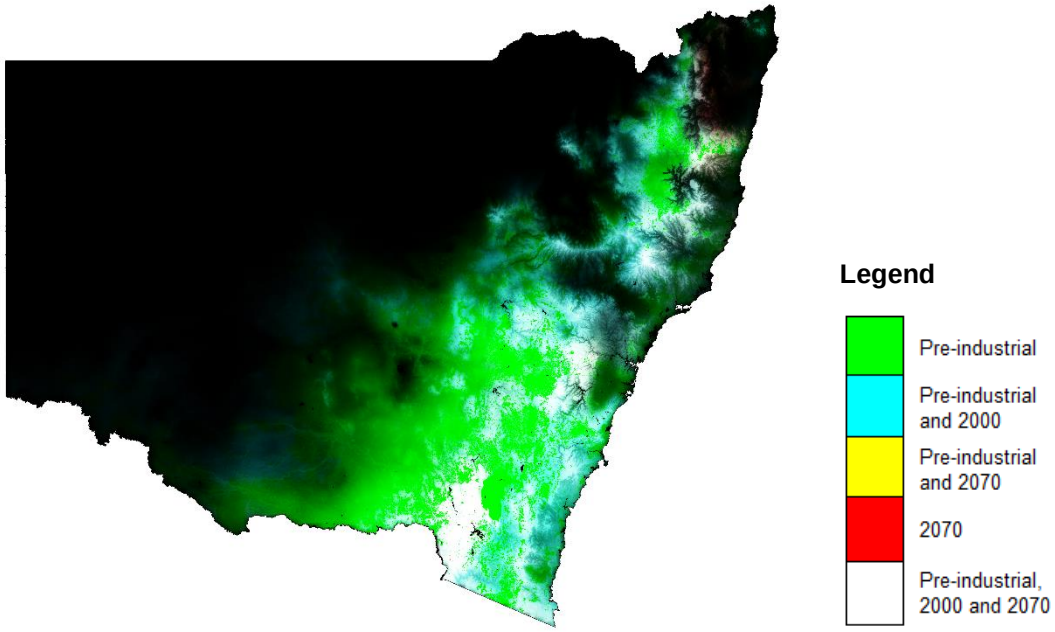
Predicted range shift

Projected landscape capacity is contracting to higher elevation.

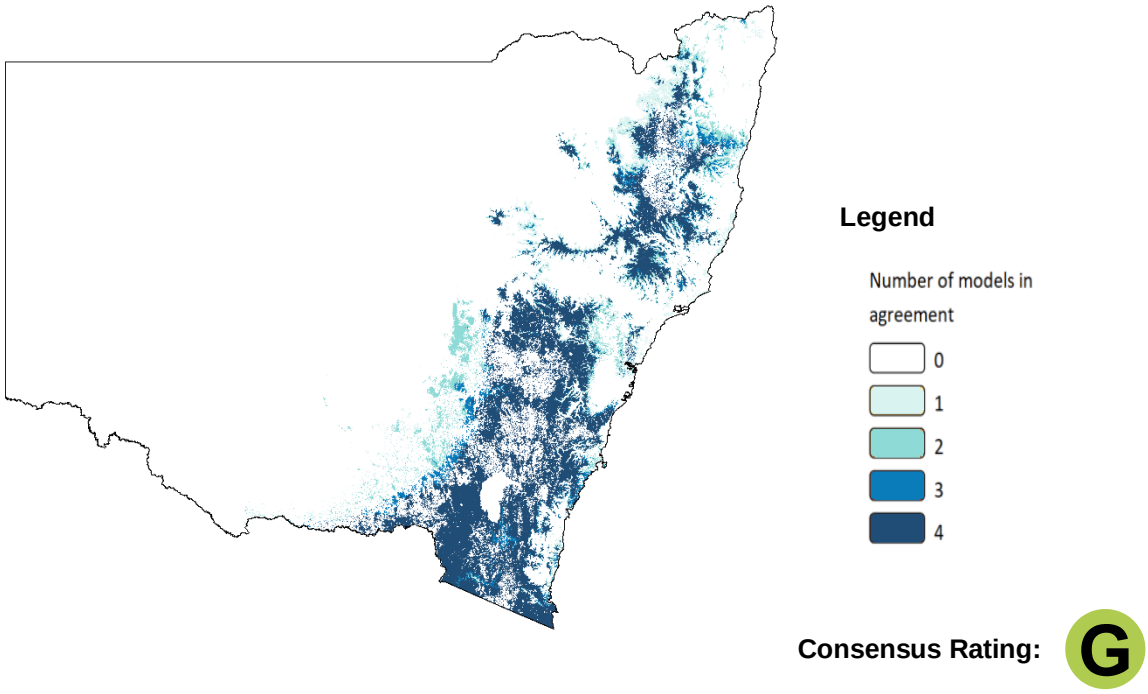
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	500 - 750 m
Species dispersal movement	500 - 350,000 m
Minimum habitat for viable population	1,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Marbled frogmouth species forecast to 2070

Scientific name: *Podargus ocellatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	17%	12%	14%
Landscape capacity from 2000	588%	100%	71%	82%

Predicted range shift

Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 500 m
Species dispersal movement	10,000 - 20,000 m
Minimum habitat for viable population	24,000 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)

Consensus Rating: G

Superb parrot (breeding) species forecast to 2070

Scientific name: *Polytelis swainsonii*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	27%	7%	2%
Landscape capacity from 2000	370%	100%	26%	7%

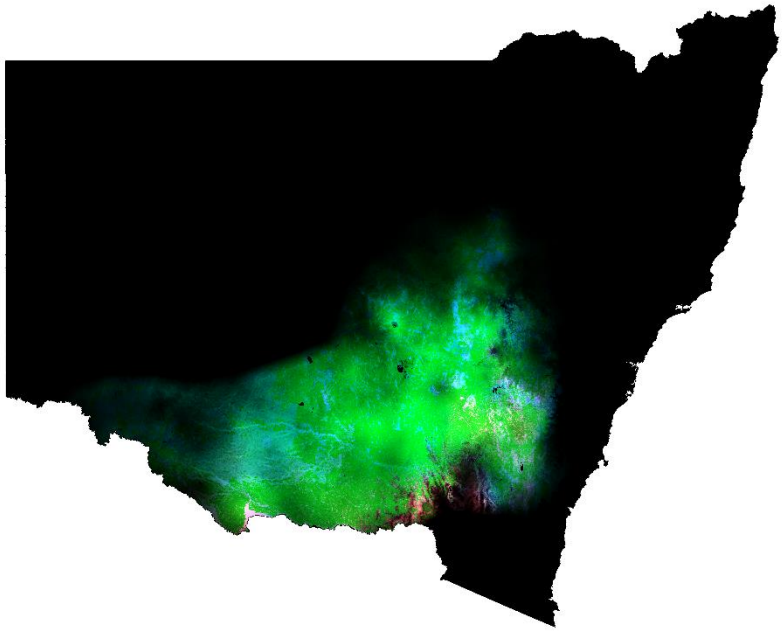
Predicted range shift

Projected landscape capacity is shifting to a new range, and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	1,000 - 10,000 m
Species dispersal movement	2,000 - 35,000 m
Minimum habitat for viable population	10,000 ha

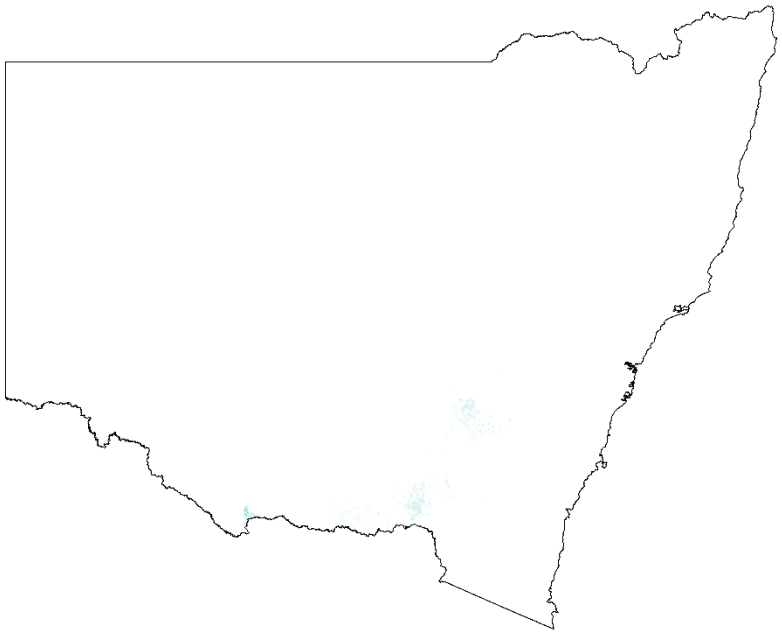
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: M

Wompoo fruit-dove species forecast to 2070

Scientific name: *Ptilinopus magnificus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	76%	51%	52%
Landscape capacity from 2000	132%	100%	67%	68%

Predicted range shift

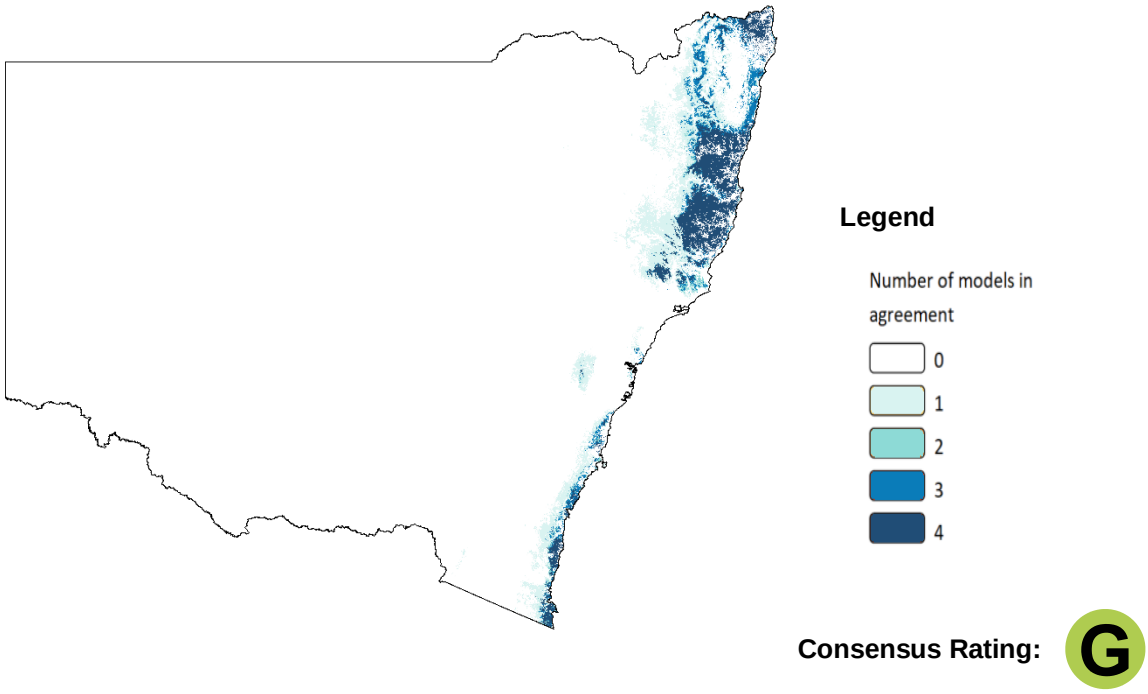
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: G

Rose-crowned fruit-dove species forecast to 2070

Scientific name: *Ptilinopus regina*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	58%	46%	55%
Landscape capacity from 2000	172%	100%	79%	95%

Predicted range shift

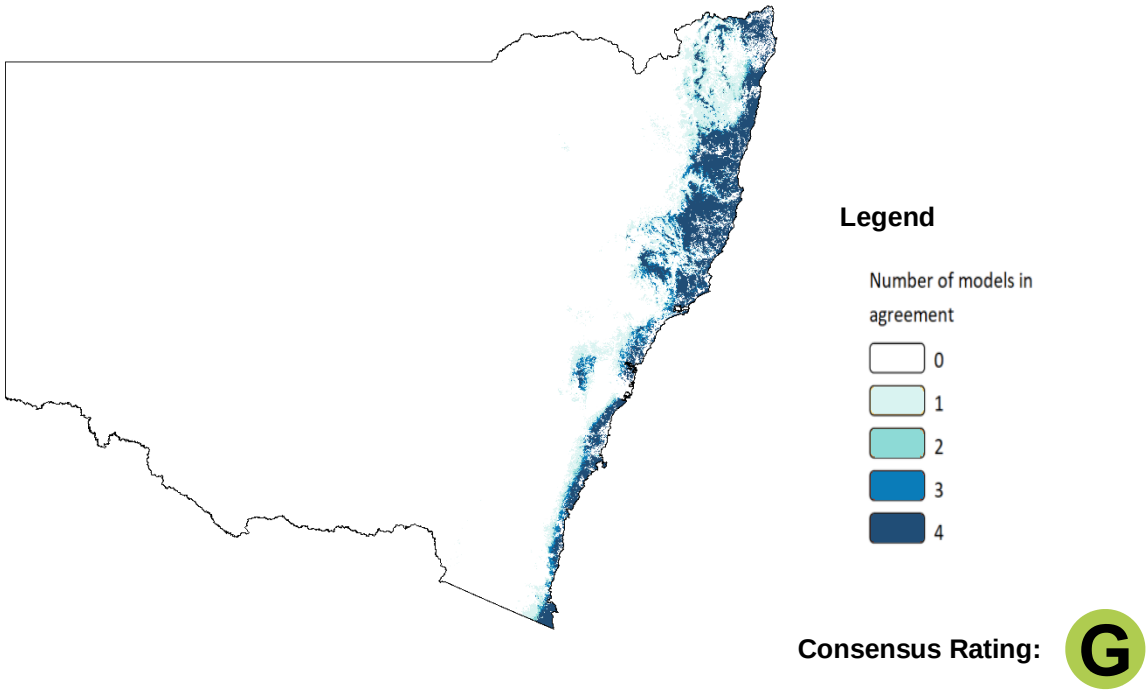
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	5,000 - 10,000 m
Species dispersal movement	500,000 - 500,000 m
Minimum habitat for viable population	1,500 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: G

Diamond firetail species forecast to 2070

Scientific name: *Stagonopleura guttata*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	100%	68%	47%
Landscape capacity from 2000	100%	100%	68%	47%

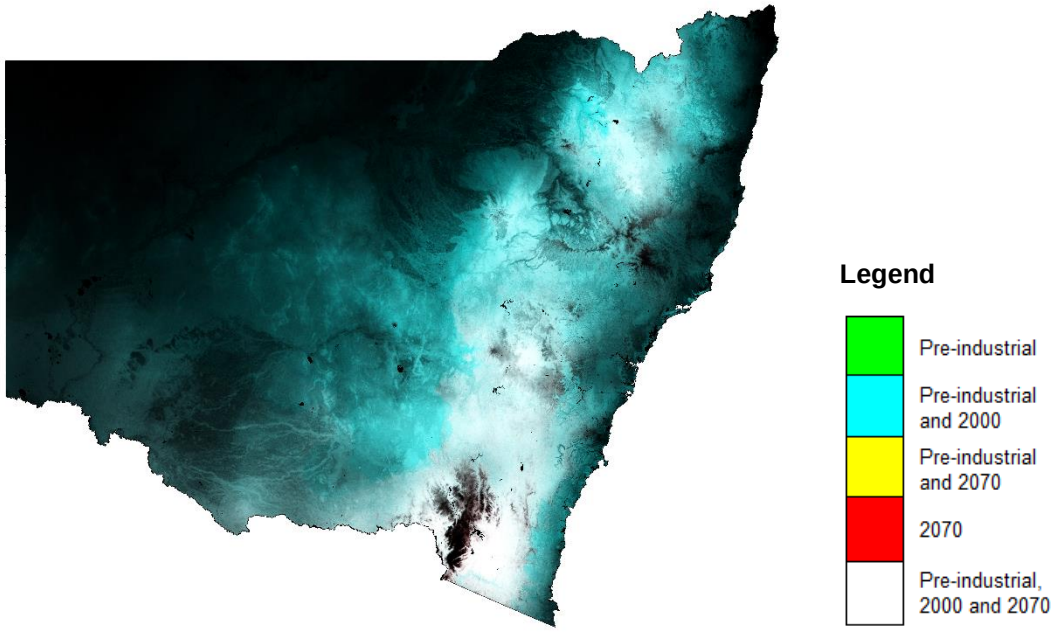
Predicted range shift

Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	500 - 2,000 m
Species dispersal movement	2000 - 20,000 m
Minimum habitat for viable population	5,000 ha

Distribution of landscape capacity over time



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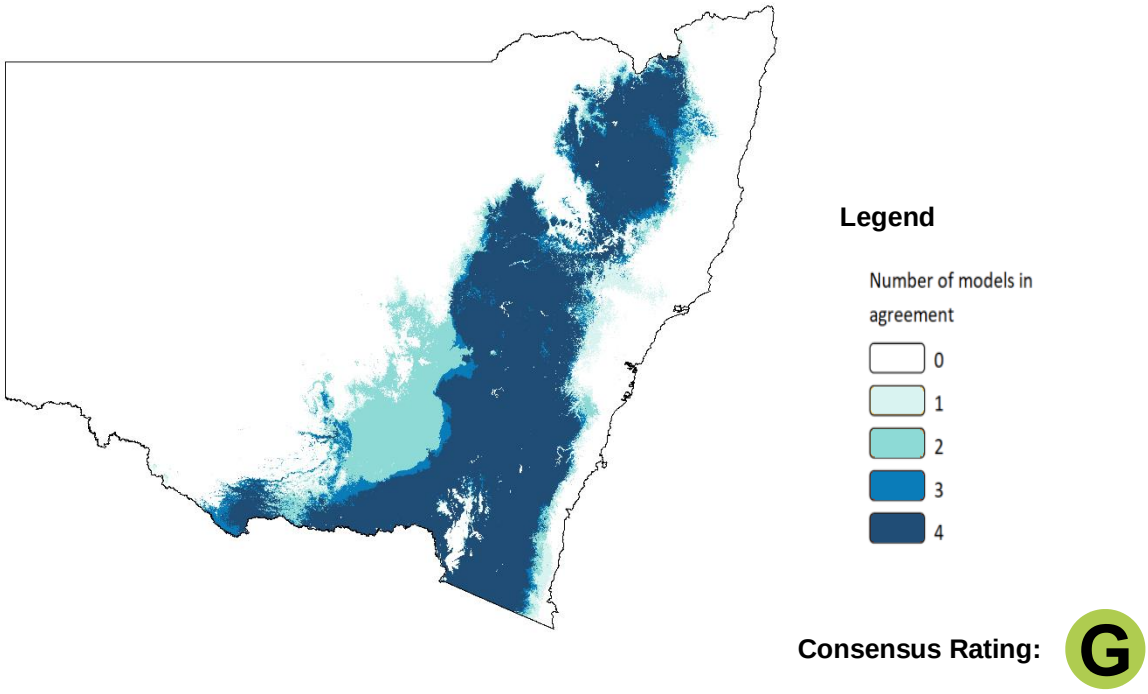


Consensus Rating: G

Freckled duck species forecast to 2070

Scientific name: *Stictonetta naevosa*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	36%	34%
Landscape capacity from 2000	222%	100%	80%	76%

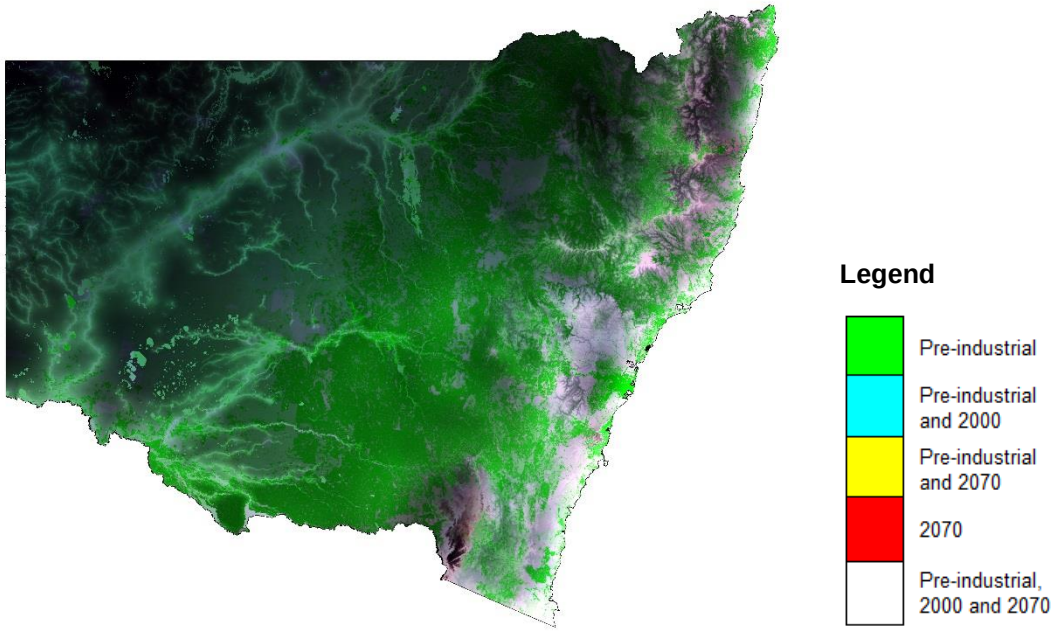
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



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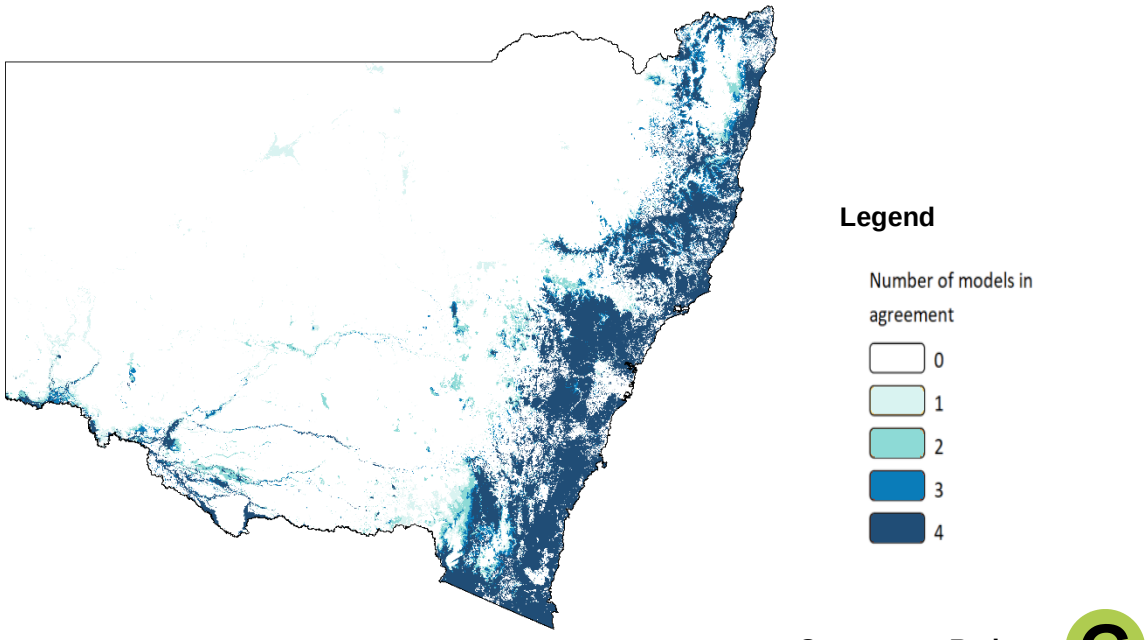


Consensus Rating: G

Sooty owl species forecast to 2070

Scientific name: *Tyto tenebricosa*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	61%	45%	34%
Landscape capacity from 2000	164%	100%	74%	56%

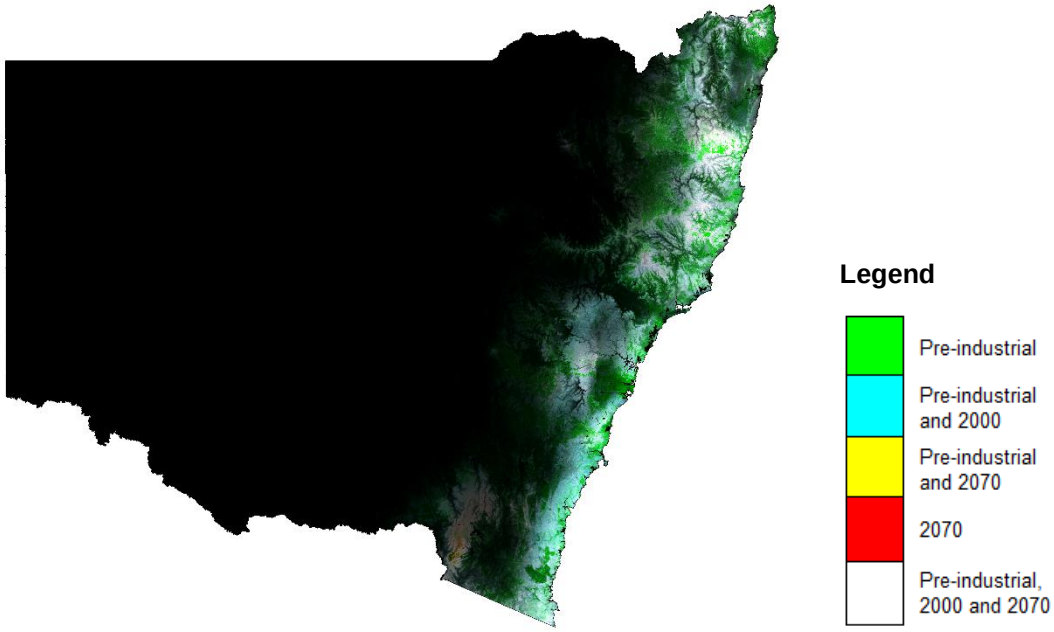
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	500 - 5,000 m
Species dispersal movement	25,000 - 75,000 m
Minimum habitat for viable population	37,500 ha

Distribution of landscape capacity over time



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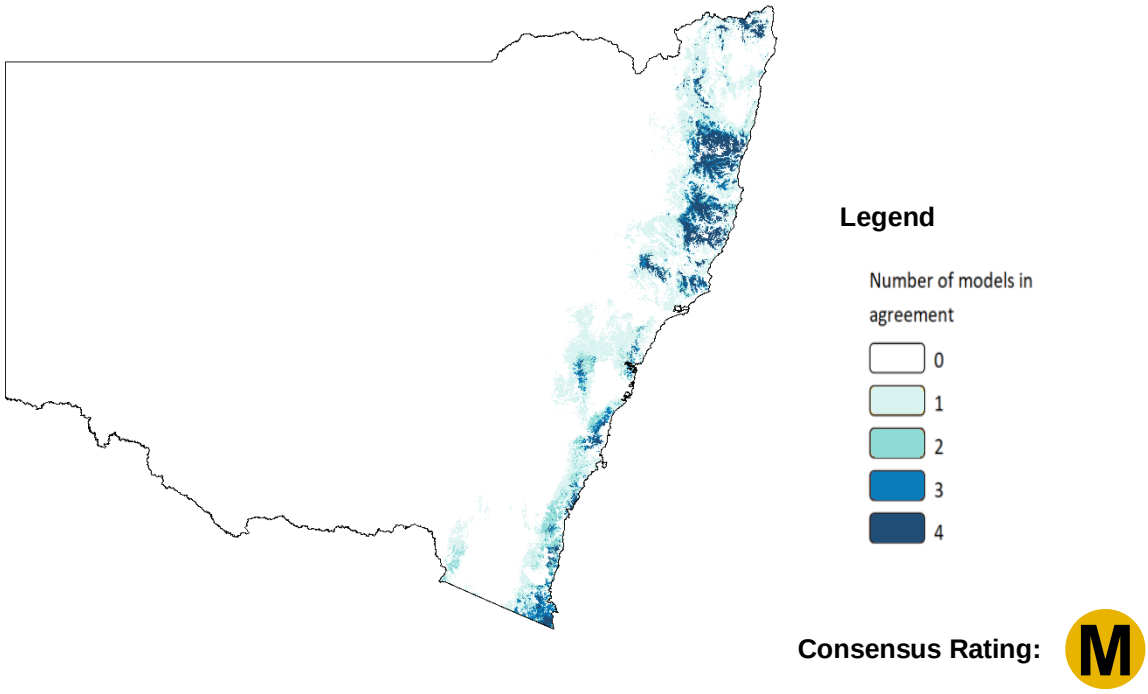


Consensus Rating: M

Rufus bettong species forecast to 2070

Scientific name: *Aepyprymnus rufescens*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	49%	19%	8%
Landscape capacity from 2000	204%	100%	39%	16%

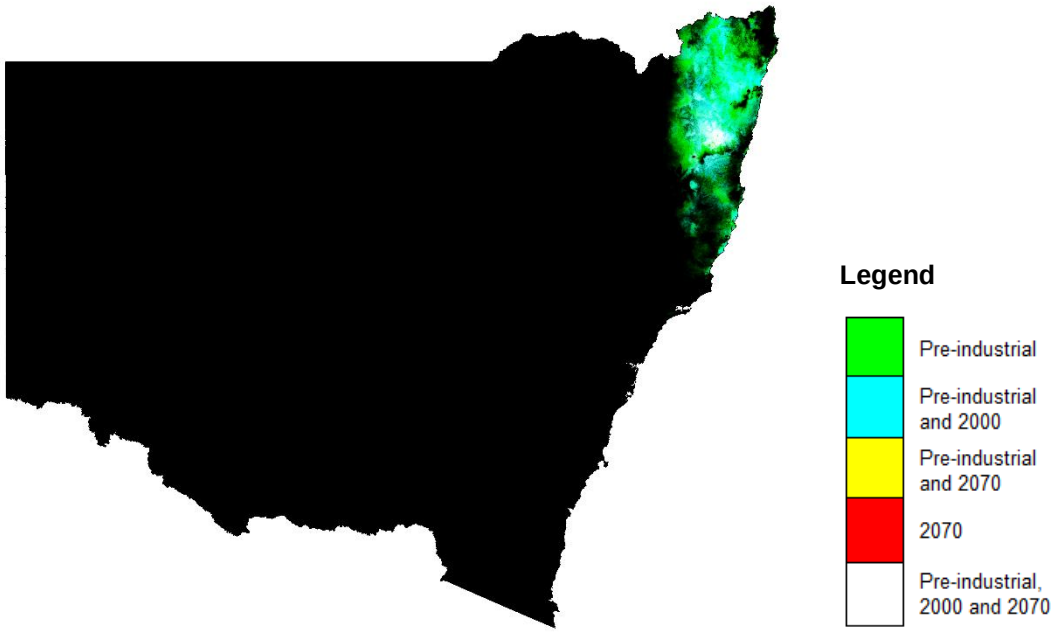
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	400 - 1,300 m
Species dispersal movement	1200 - 6,500 m
Minimum habitat for viable population	500 ha

Distribution of landscape capacity over time



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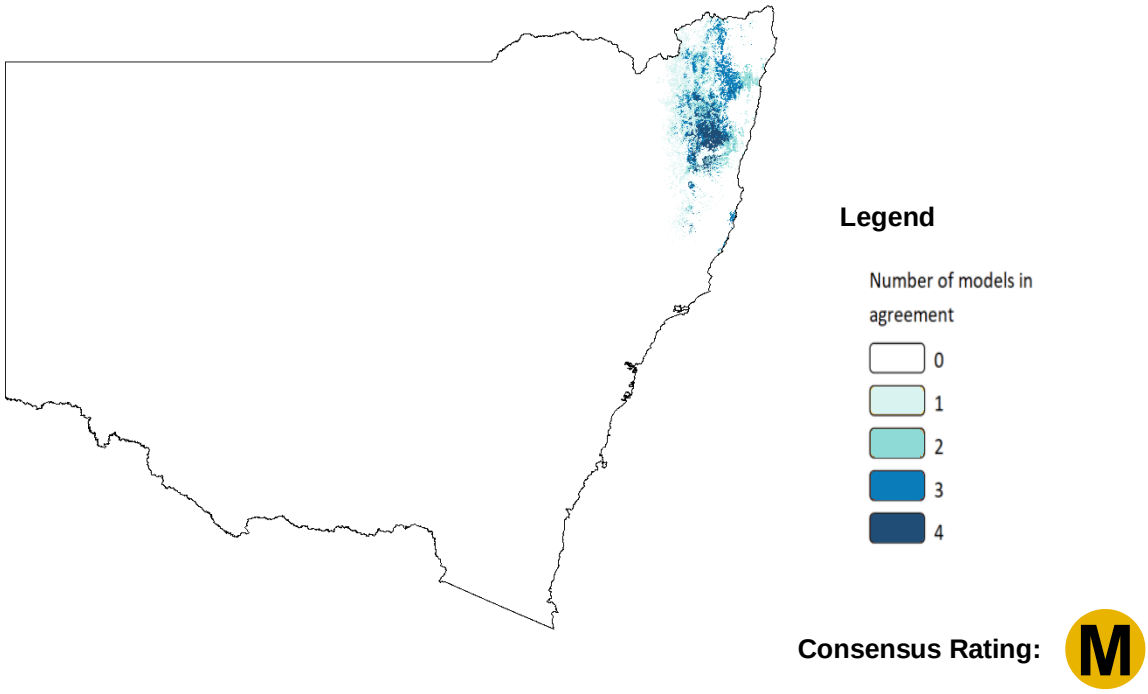


Consensus Rating: M

Eastern pygmy-possum species forecast to 2070

Scientific name: *Cercartetus nanus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	66%	64%	57%
Landscape capacity from 2000	152%	100%	97%	86%

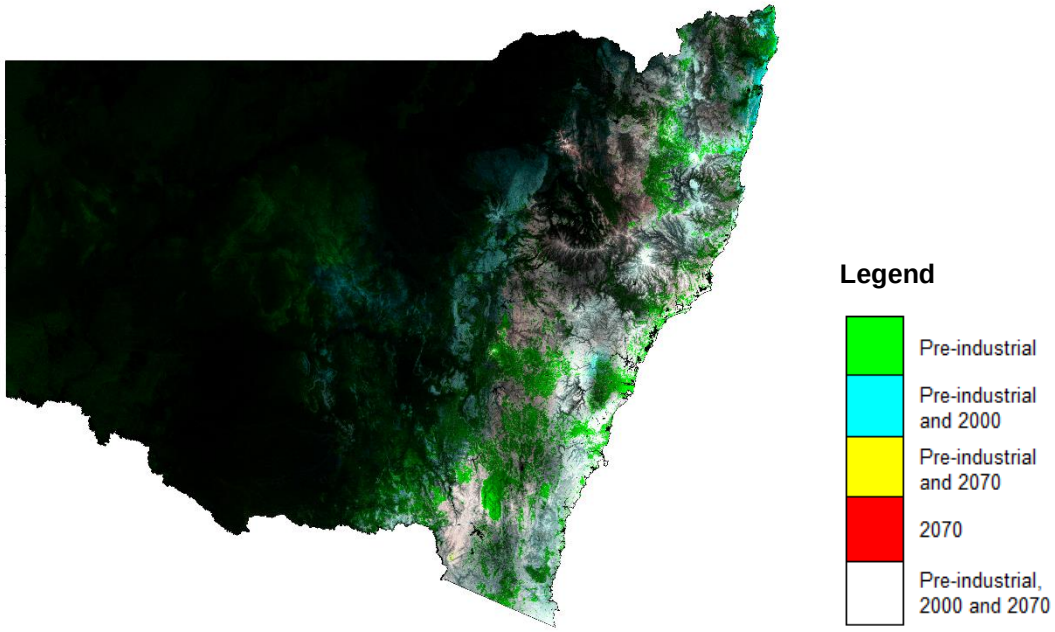
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is mostly stable.

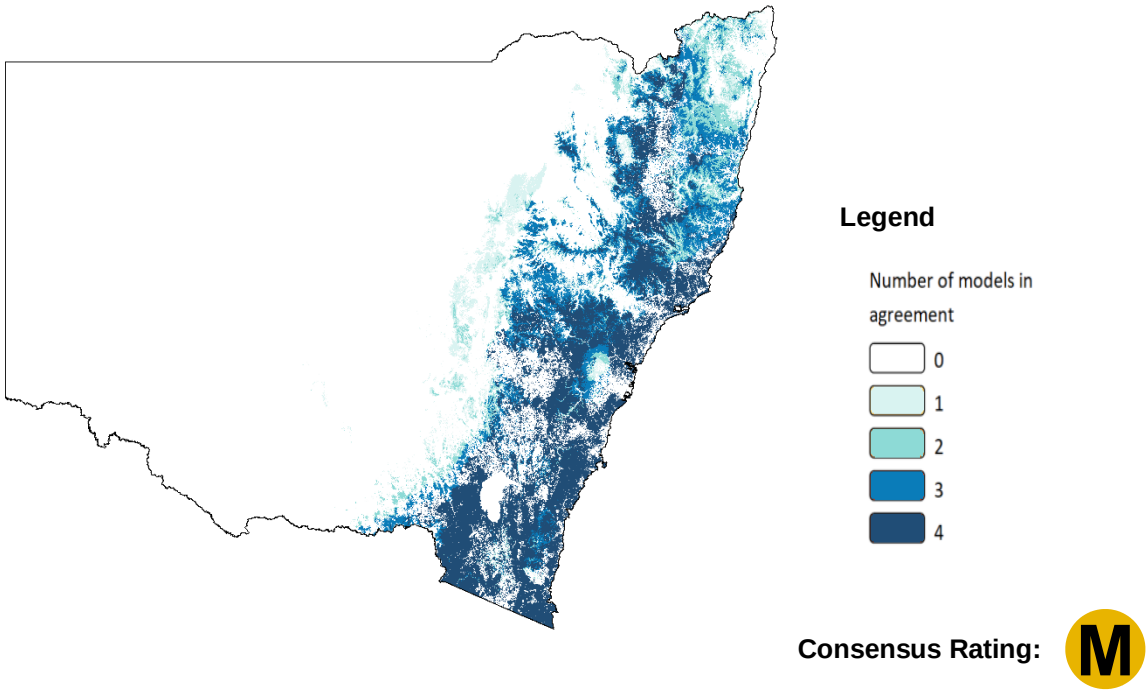
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	300 - 1,000 m
Species dispersal movement	1,000 - 3,000 m
Minimum habitat for viable population	1,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Spotted-tailed quoll species forecast to 2070

Scientific name: *Dasyurus maculatus*

Conservation status in NSW: Endangered

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	65%	52%	46%
Landscape capacity from 2000	154%	100%	80%	71%

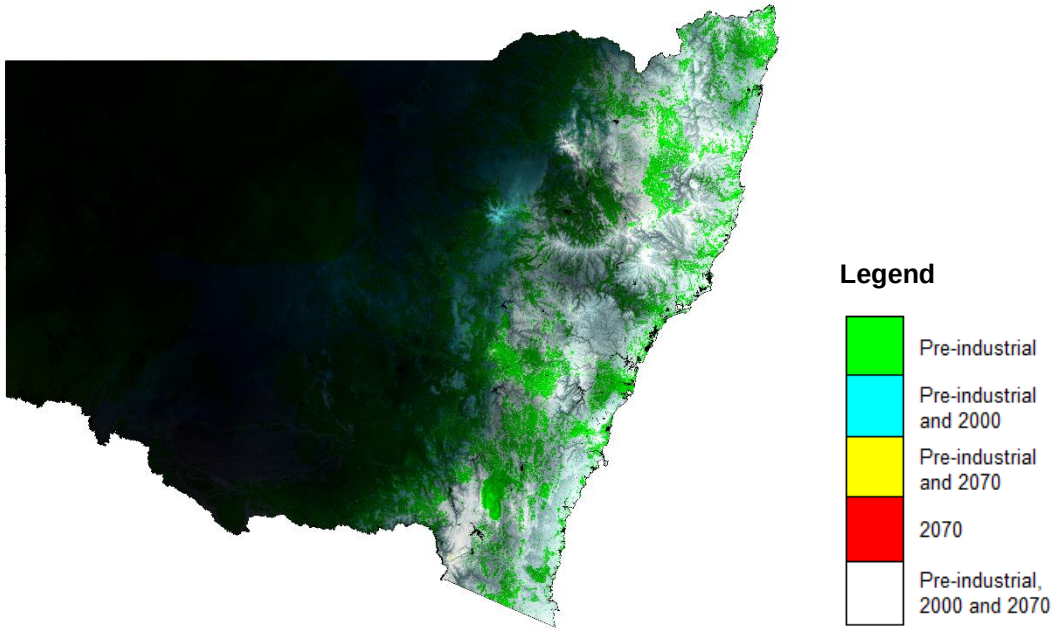
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	200 - 5,000 m
Species dispersal movement	2,000 - 40,000 m
Minimum habitat for viable population	20,000 ha

Distribution of landscape capacity over time



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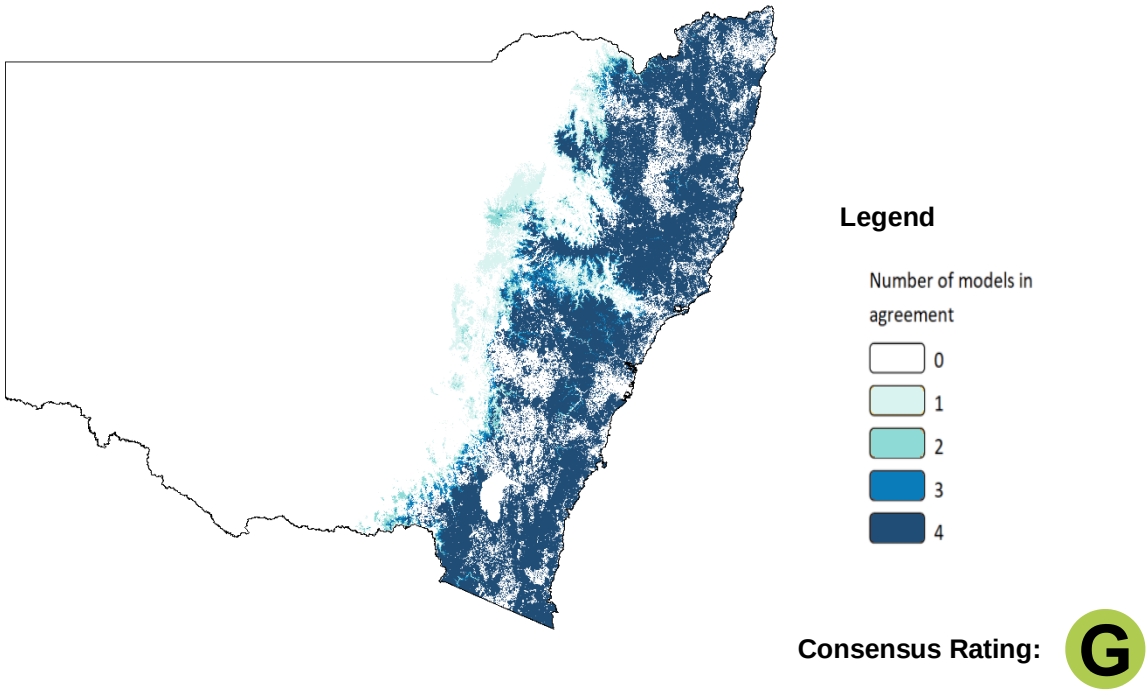


Consensus Rating: G

Black-striped wallaby species forecast to 2070

Scientific name: *Macropus dorsalis*

Conservation status in NSW: Endangered

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	243%	293%
Landscape capacity from 2000	222%	100%	540%	651%

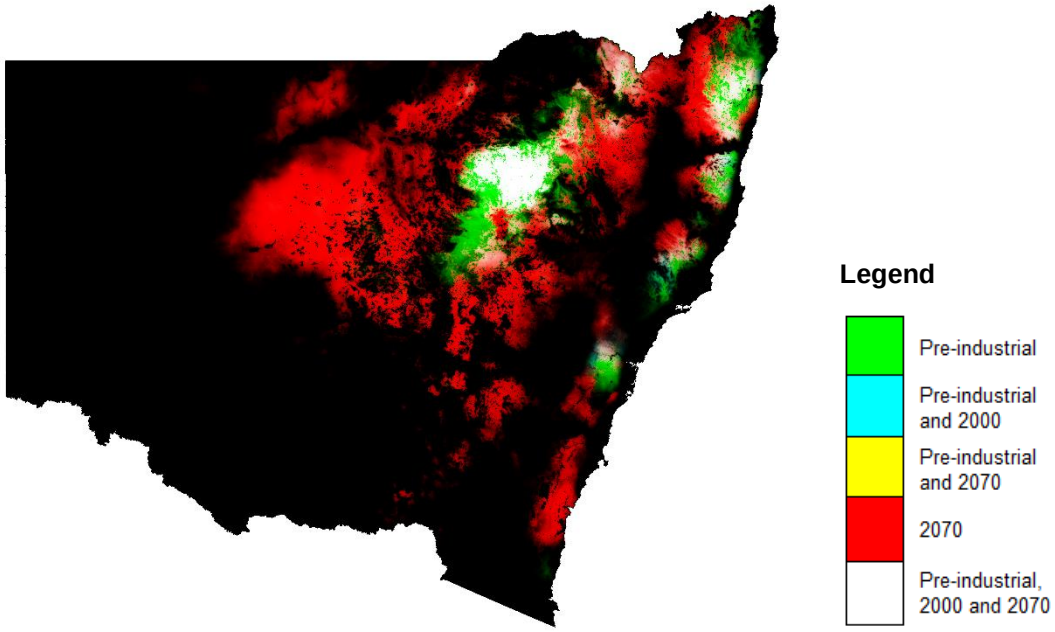
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is expanding.

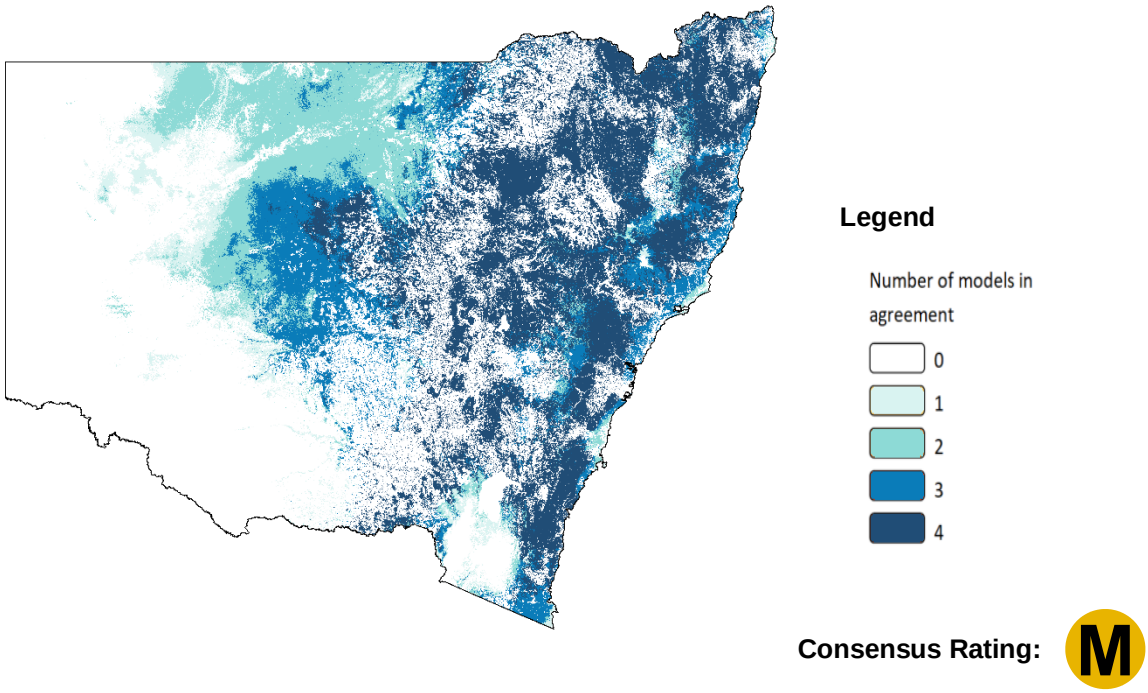
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	500 - 750 m
Species dispersal movement	1,500 - 10,000 m
Minimum habitat for viable population	5,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Parma wallaby species forecast to 2070

Scientific name: *Macropus parma*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	84%	93%	153%
Landscape capacity from 2000	119%	100%	111%	182%

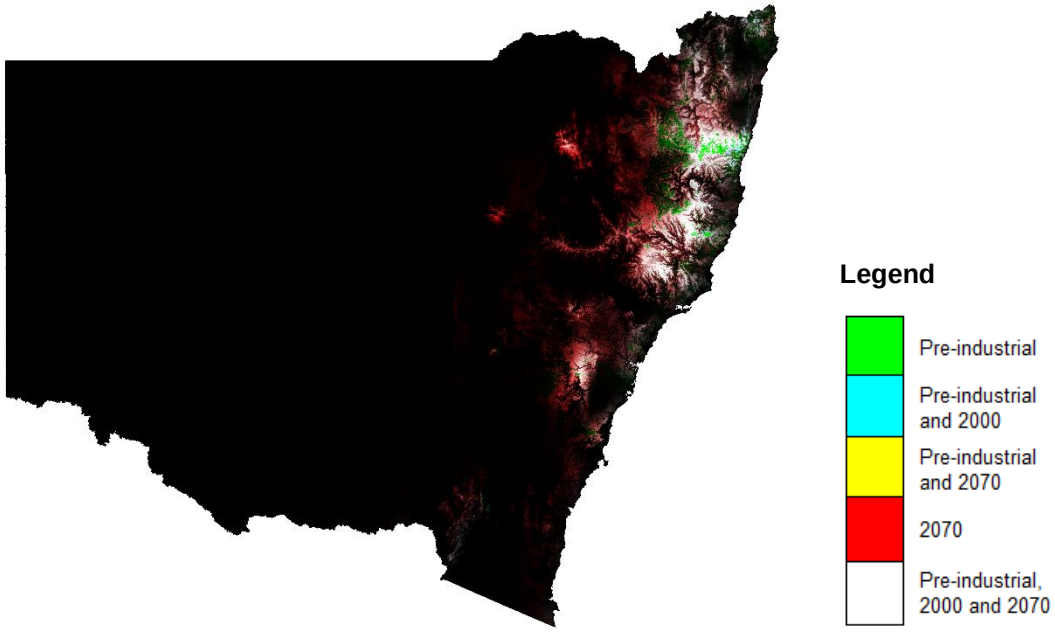
Predicted range shift

Projected landscape capacity is expanding.

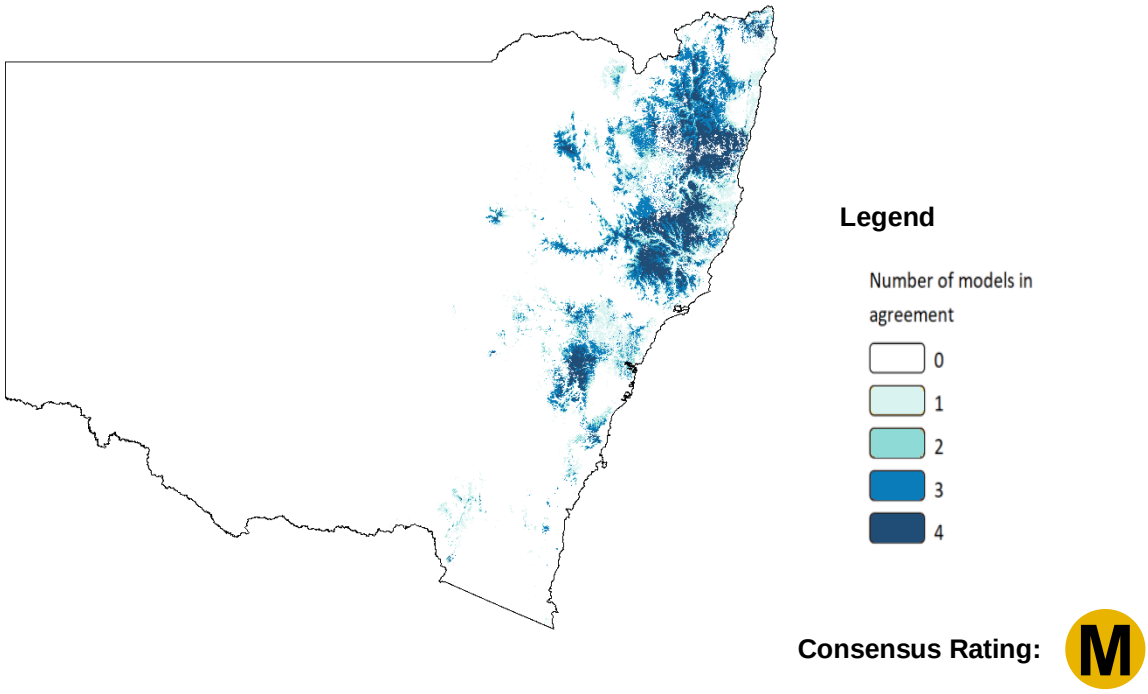
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 750 m
Species dispersal movement	500 - 6,000 m
Minimum habitat for viable population	6,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Ningaui species forecast to 2070

Scientific name: *Ningaui yvonneae*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	46%	12%	5%
Landscape capacity from 2000	217%	100%	26%	11%

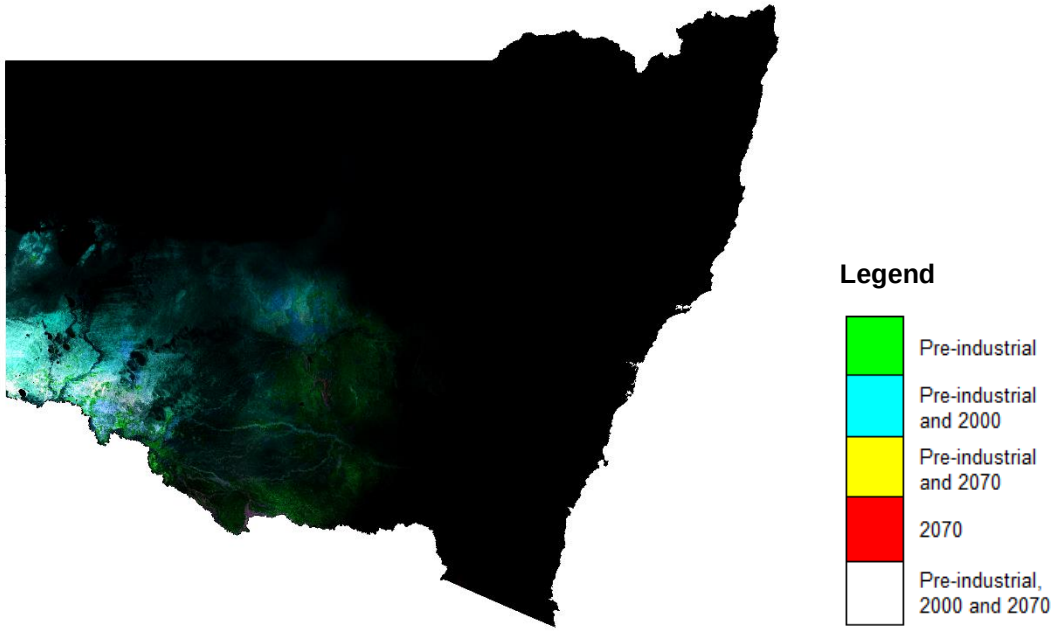
Predicted range shift

Projected landscape capacity is disappearing.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	87 - 217 m
Species dispersal movement	87 - 1,086 m
Minimum habitat for viable population	12,500 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)

Consensus Rating: M

Greater glider species forecast to 2070

Scientific name: *Petauroides volans*

Conservation status in NSW: Not Listed

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	99%	85%	69%
Landscape capacity from 2000	101%	100%	86%	70%

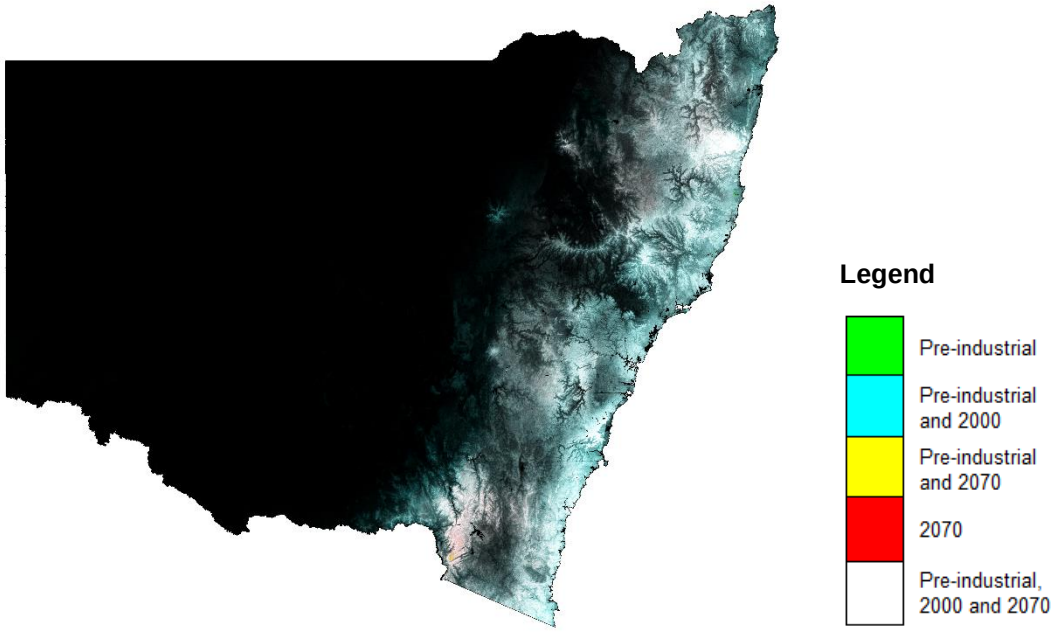
Predicted range shift

Projected landscape capacity is shifting to higher elevation, and is contracting.

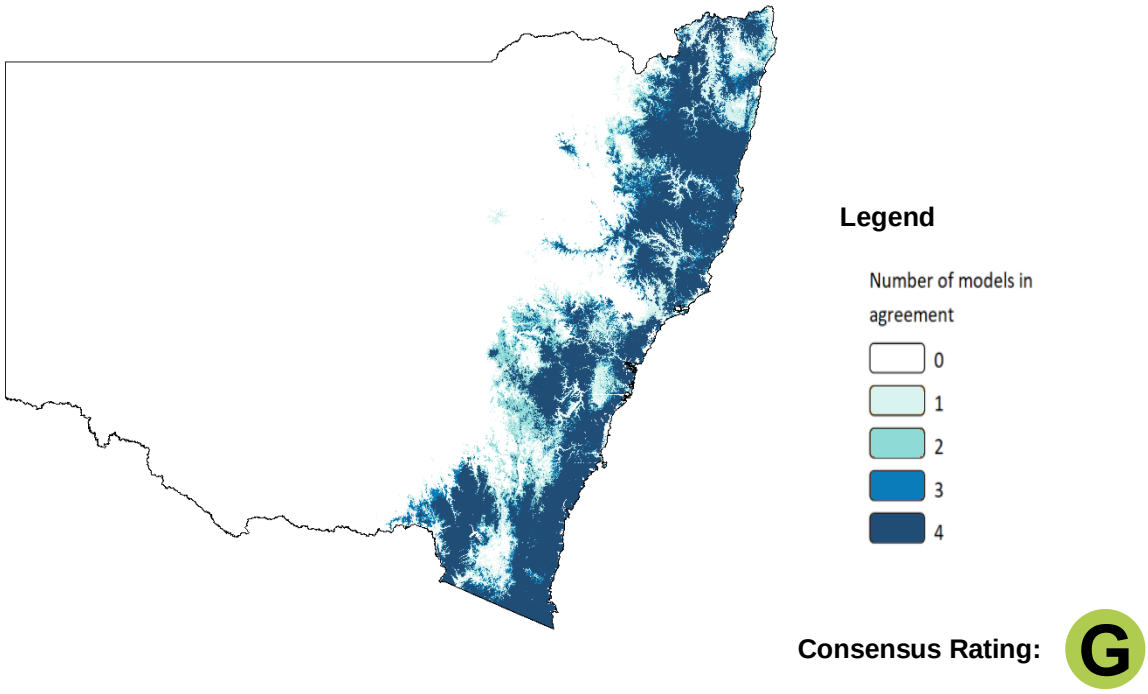
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	150 - 200 m
Species dispersal movement	500 - 3,500 m
Minimum habitat for viable population	1,500 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Squirrel glider species forecast to 2070

Scientific name: *Petaurus norfolcensis*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	34%	21%	37%
Landscape capacity from 2000	294%	100%	62%	109%

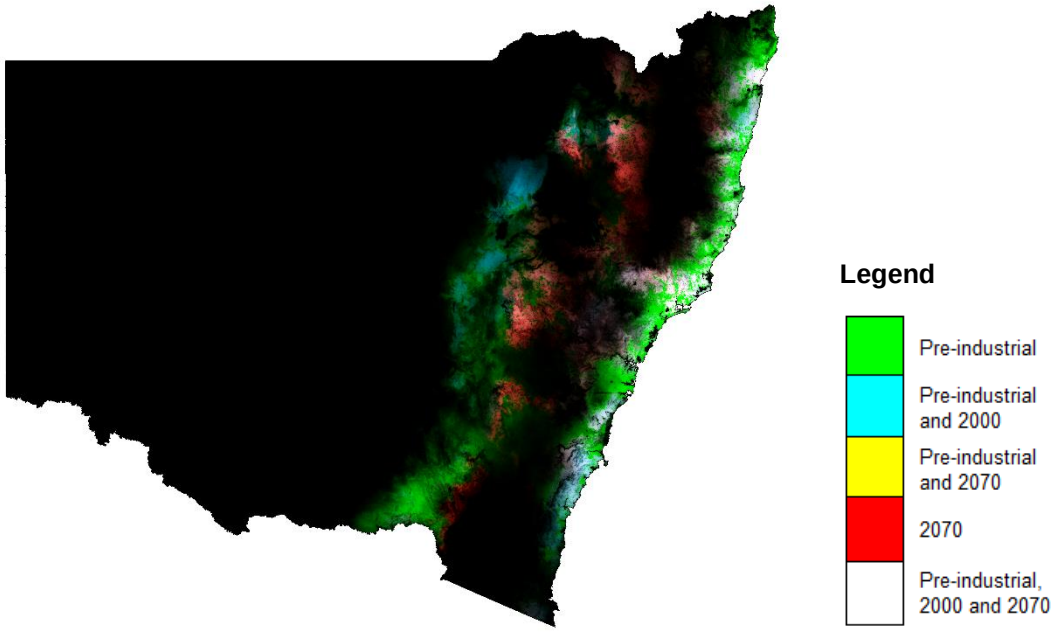
Predicted range shift

Projected landscape capacity is shifting to a new range, and moving east.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 500 m
Species dispersal movement	3,000 - 8,000 m
Minimum habitat for viable population	10,000 ha

Distribution of landscape capacity over time



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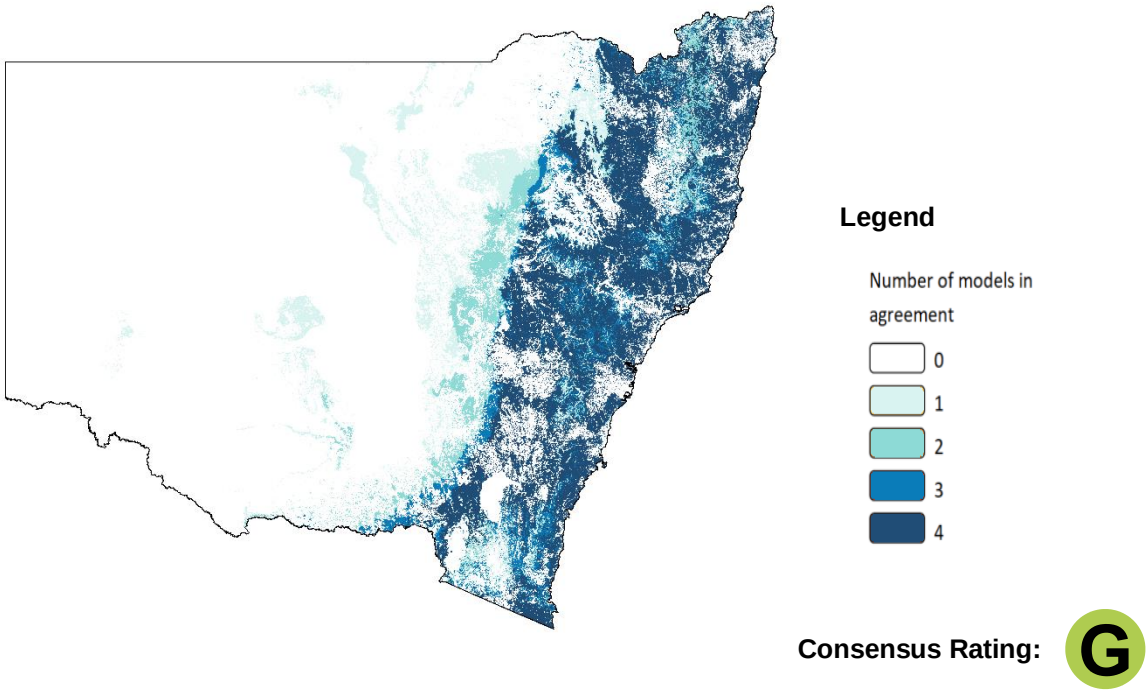


Consensus Rating: G

Brush-tailed phascogale species forecast to 2070

Scientific name: *Phascogale tapoatafa*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	45%	19%	36%
Landscape capacity from 2000	222%	100%	42%	80%

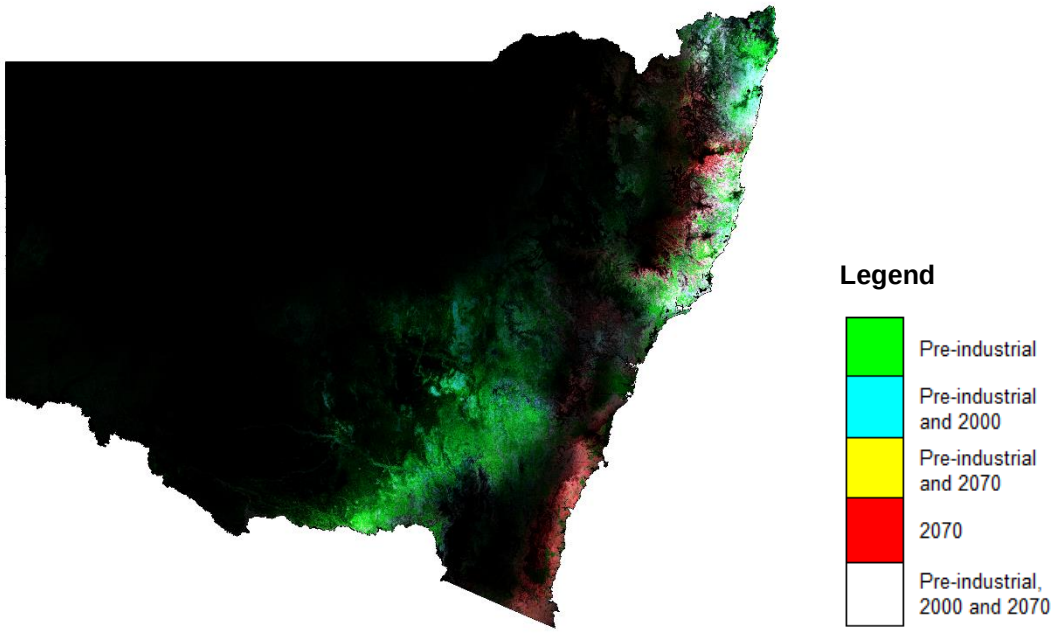
Predicted range shift

Projected landscape capacity is shifting to a new range.

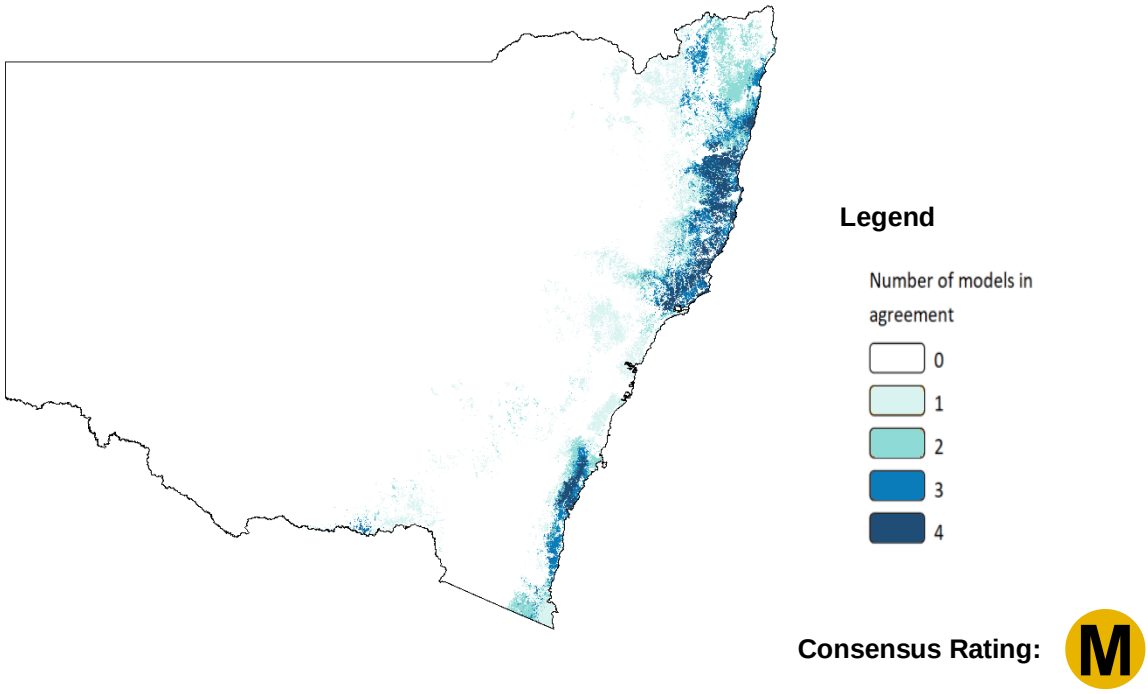
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 2,000 m
Species dispersal movement	1000 - 6,000 m
Minimum habitat for viable population	1,000 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Hastings river mouse species forecast to 2070

Scientific name: *Pseudomys oralis*

Conservation status in NSW: Endangered

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	62%	29%	30%
Landscape capacity from 2000	161%	100%	47%	48%

Predicted range shift

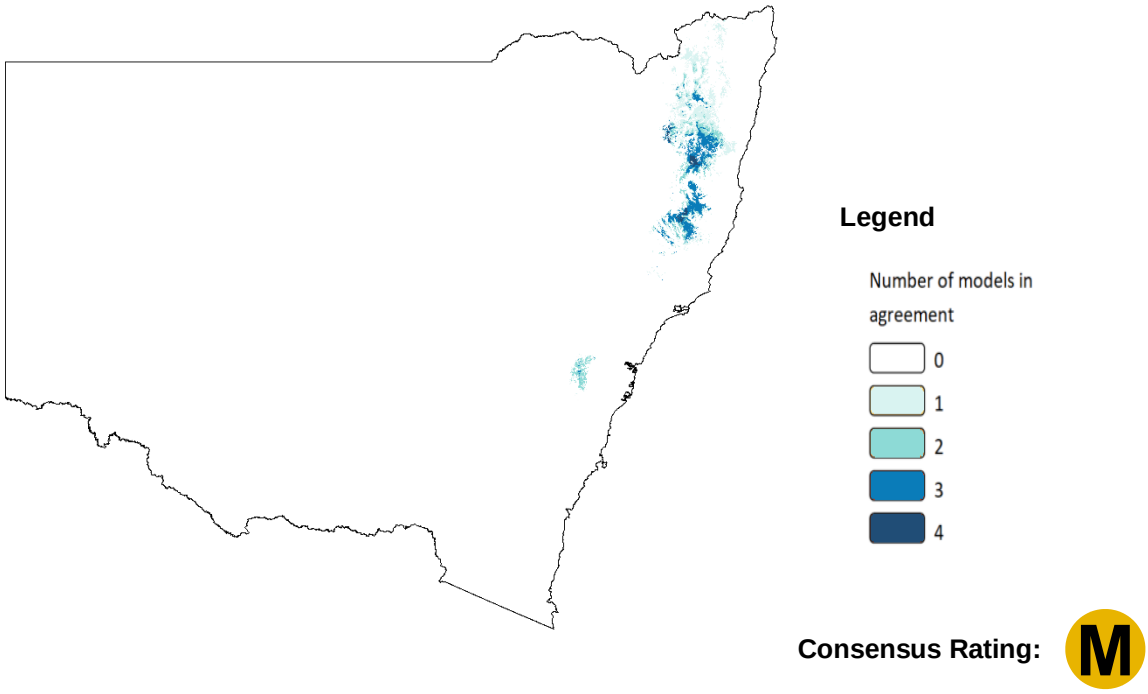
Projected landscape capacity is shifting to higher elevation, and is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: M

Red-legged pademelon species forecast to 2070

Scientific name: *Thylogale stigmatica*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	58%	28%	23%
Landscape capacity from 2000	172%	100%	48%	40%

Predicted range shift

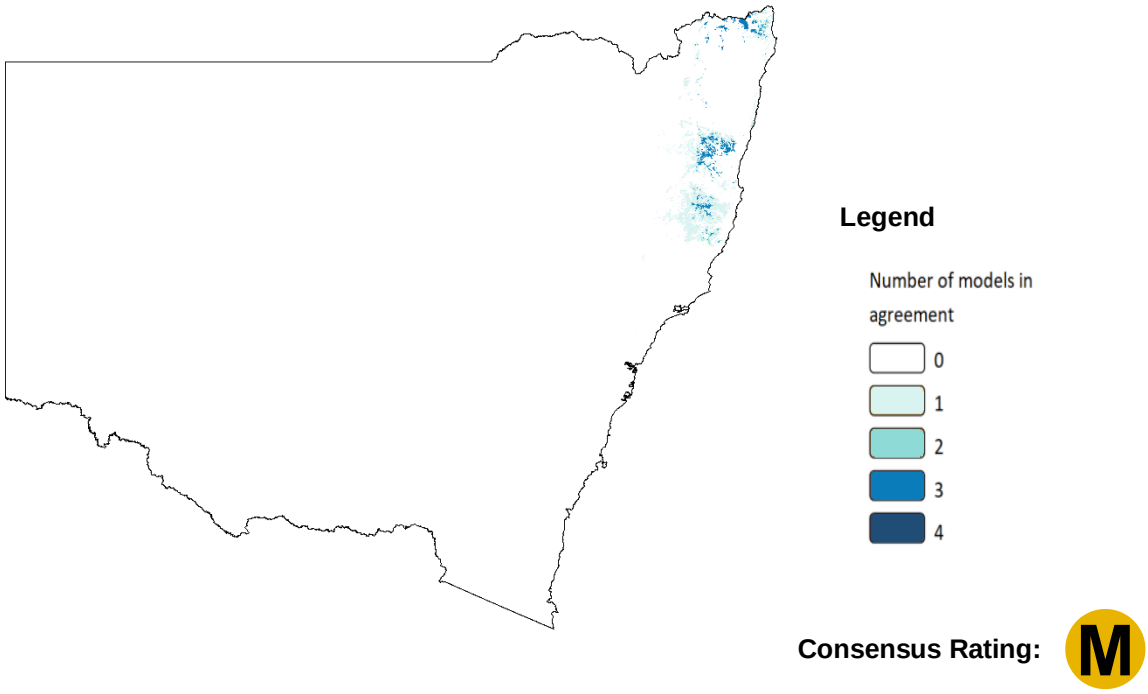
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	250 - 750 m
Species dispersal movement	500 - 5,000 m
Minimum habitat for viable population	1,200 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: M

Pink-tailed legless lizard species forecast to 2070

Scientific name: *Aprasia parapulchella*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	58%	33%	22%
Landscape capacity from 2000	172%	100%	57%	38%

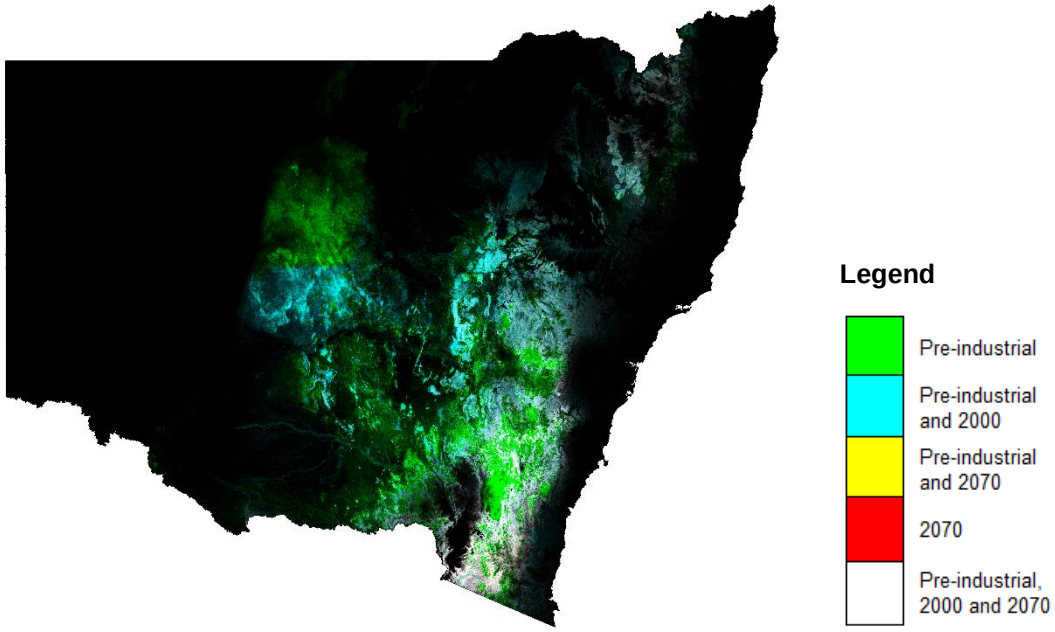
Predicted range shift

Projected landscape capacity is shifting to higher elevation.

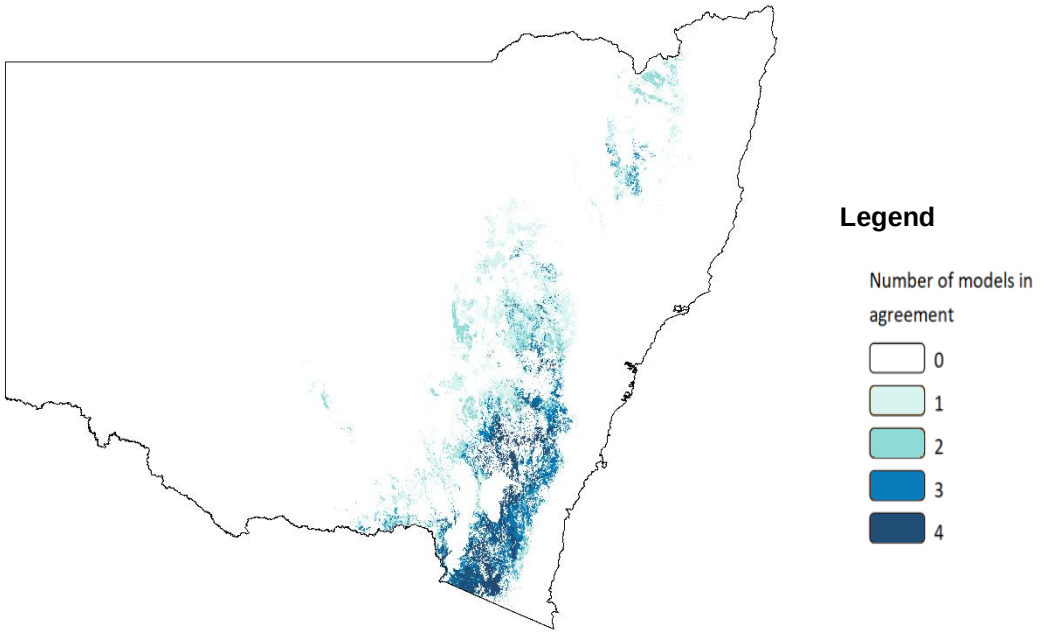
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	165 - 216 m
Species dispersal movement	303 - 345 m
Minimum habitat for viable population	594 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: M

Three-toed snake-tooth skink species forecast to 2070

Scientific name: *Coeranoscincus reticulatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	20%	9%	4%
Landscape capacity from 2000	500%	100%	45%	20%

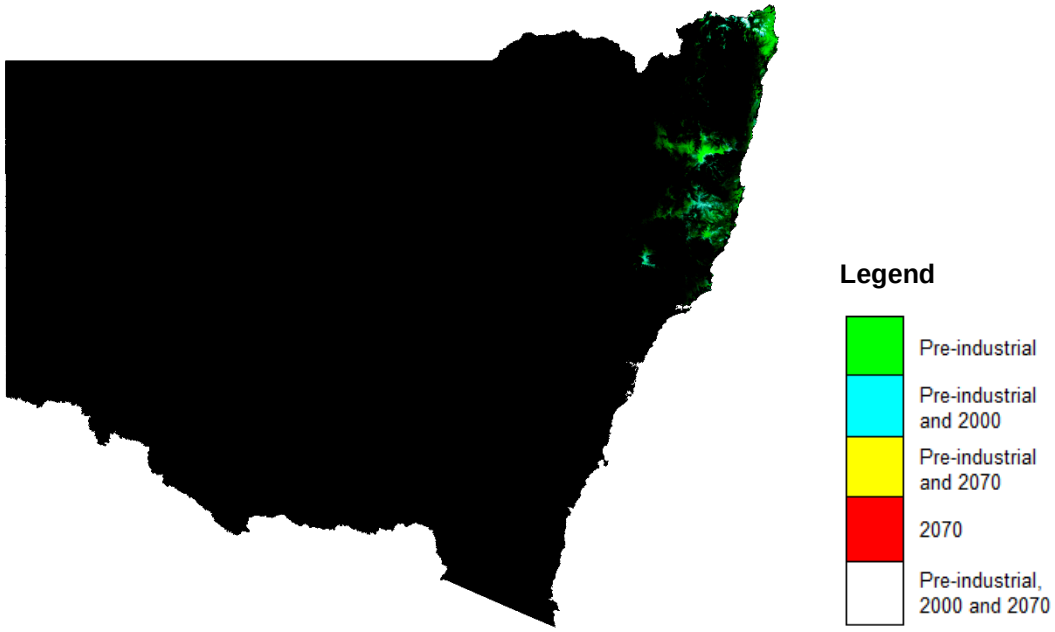
Predicted range shift

Projected distribution is contracting.

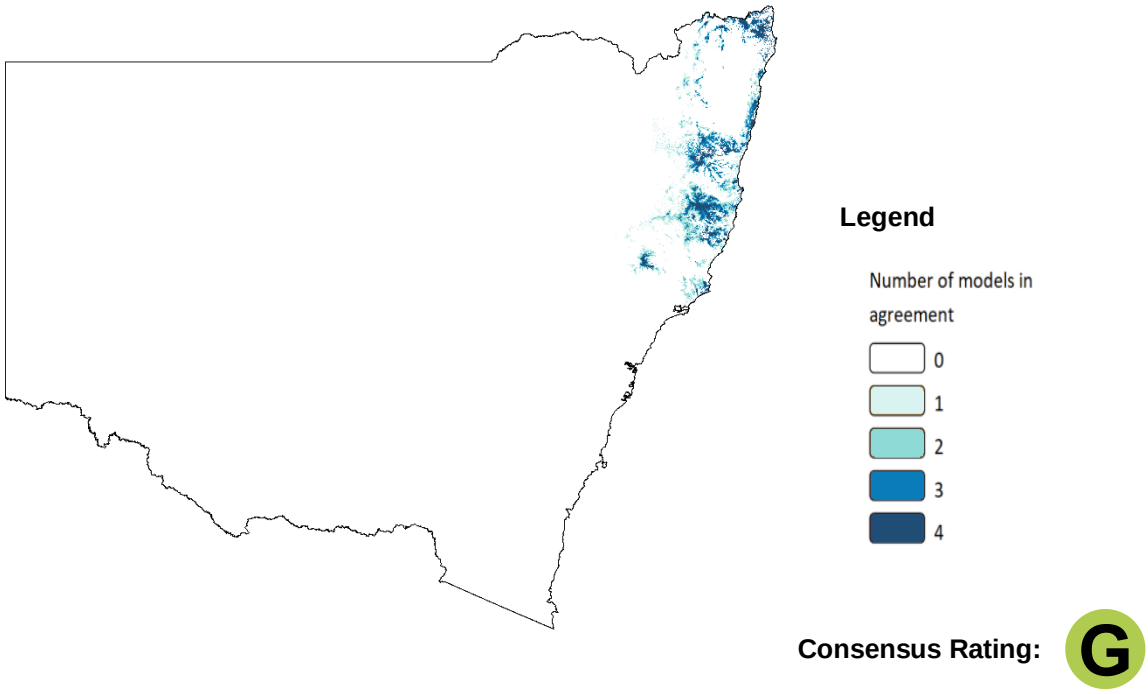
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	159 - 209 m
Species dispersal movement	294 - 334 m
Minimum habitat for viable population	547 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Striped Legless lizard species forecast to 2070

Scientific name: *Delma impar*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	48%	17%	12%
Landscape capacity from 2000	208%	100%	35%	25%

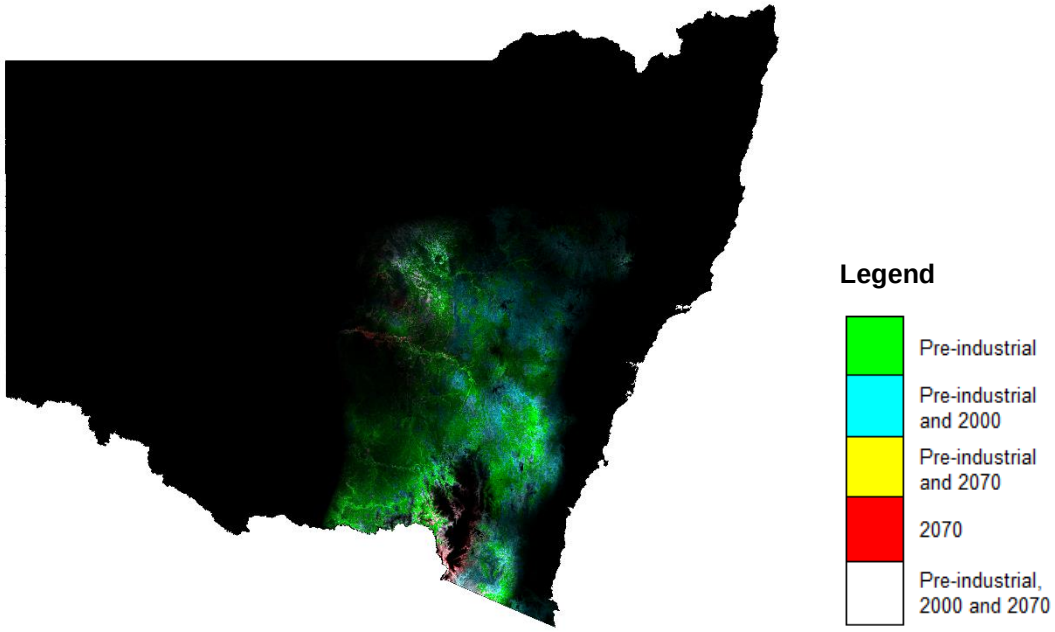
Predicted range shift

Projected landscape capacity is shifting to higher elevation, it is contracting, and moving south.

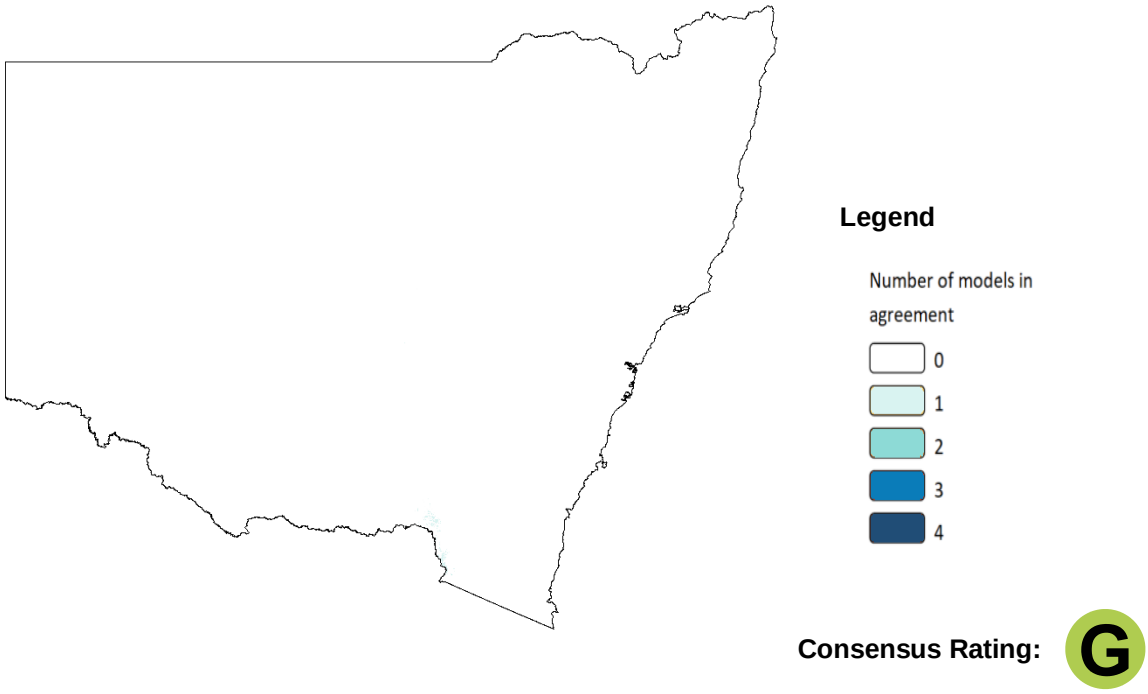
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	N/A
Species dispersal movement	N/A
Minimum habitat for viable population	N/A

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Fat-tailed gecko species forecast to 2070

Scientific name: *Diplodactylus ameyi*

Conservation status in NSW: Endangered

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	1%	1%	1%
Landscape capacity from 2000	10000%	100%	100%	100%

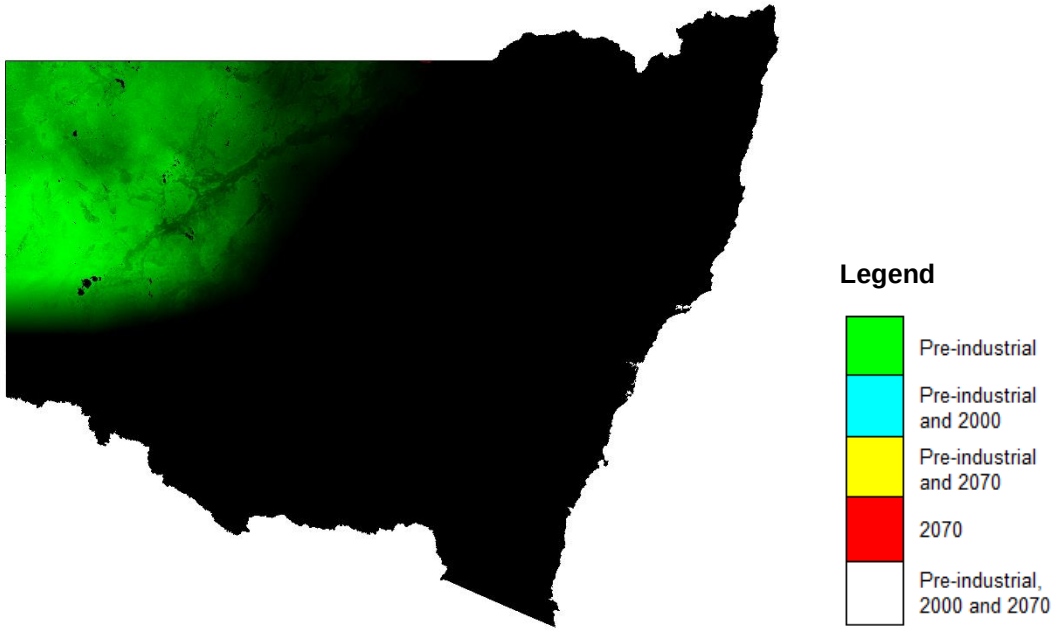
Predicted range shift

Projected landscape capacity is disappearing .

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	120 - 158 m
Species dispersal movement	207 - 235 m
Minimum habitat for viable population	214 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)

Consensus Rating: G

Rainforest cool-skink species forecast to 2070

Scientific name: *Harrisoniascincus zia*

Conservation status in NSW: Not Listed

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	28%	20%	6%
Landscape capacity from 2000	357%	100%	71%	21%

Predicted range shift

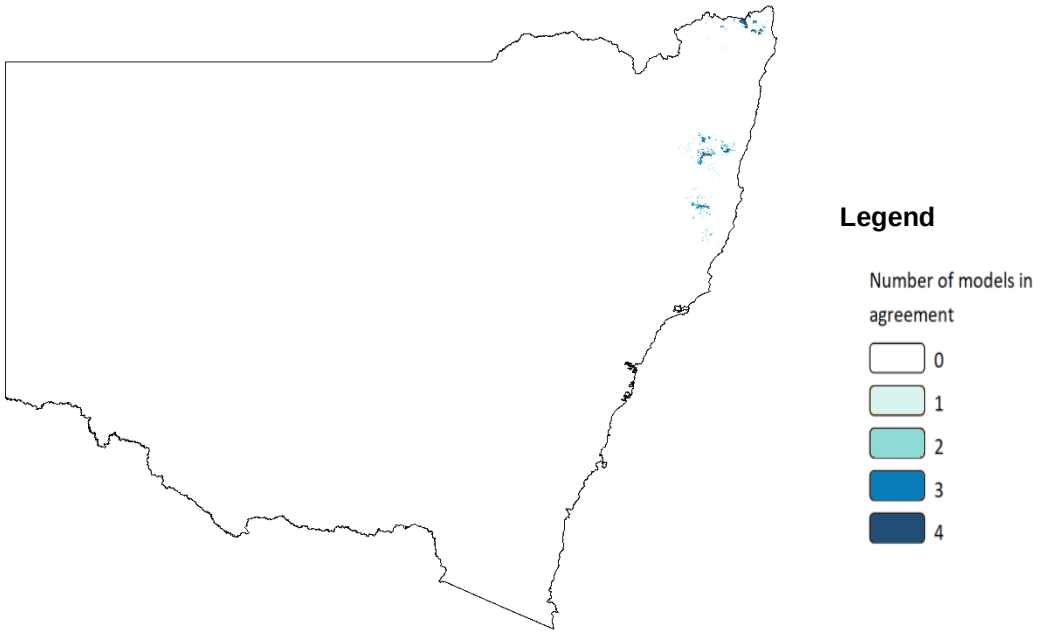
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	111 - 146 m
Species dispersal movement	172 - 196 m
Minimum habitat for viable population	131 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: G

Pale-headed snake species forecast to 2070

Scientific name: *Hoplocephalus bitorquatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	35%	22%	26%
Landscape capacity from 2000	286%	100%	63%	74%

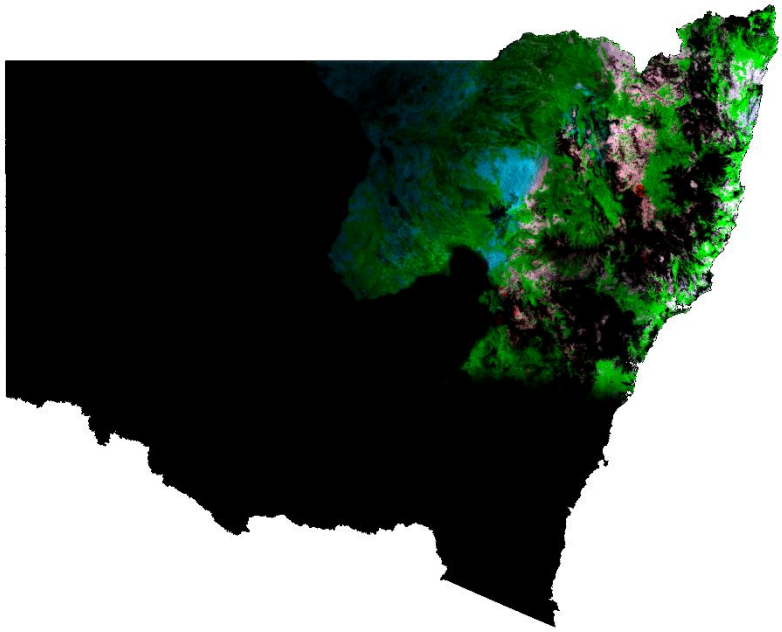
Predicted range shift

Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	400 - 400 m
Species dispersal movement	1,000 - 1,000 m
Minimum habitat for viable population	5,000 ha

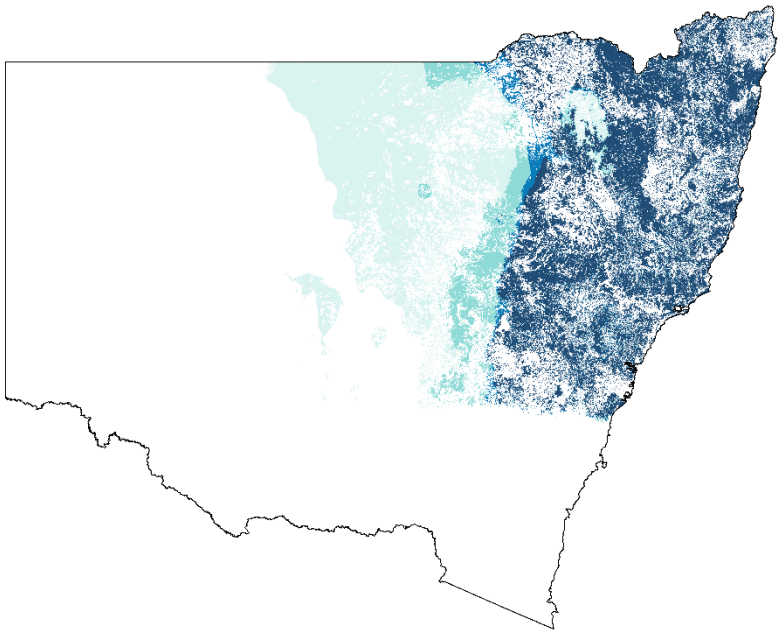
Distribution of landscape capacity over time



Legend

- Pre-industrial
- Pre-industrial and 2000
- Pre-industrial and 2070
- 2070
- Pre-industrial, 2000 and 2070

Climate model consensus (number of models in agreement)



Legend

Number of models in agreement

- 0
- 1
- 2
- 3
- 4

Consensus Rating: G

Stephen's banded snake species forecast to 2070

Scientific name: *Hoplocephalus stephensii*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

P

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	24%	1%	1%
Landscape capacity from 2000	417%	100%	4%	4%

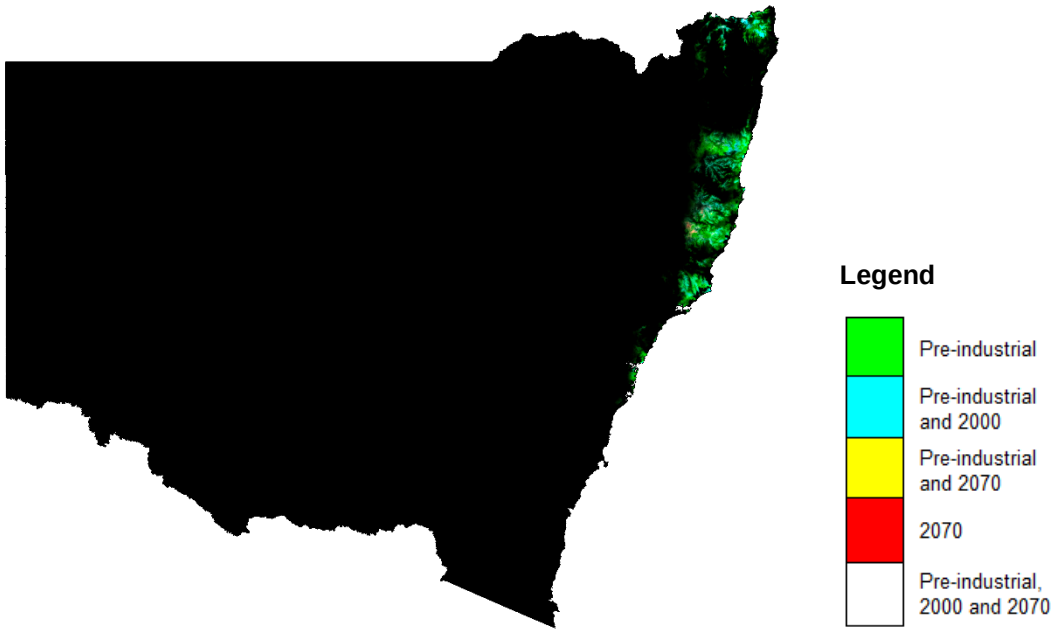
Predicted range shift

Projected landscape capacity is disappearing.

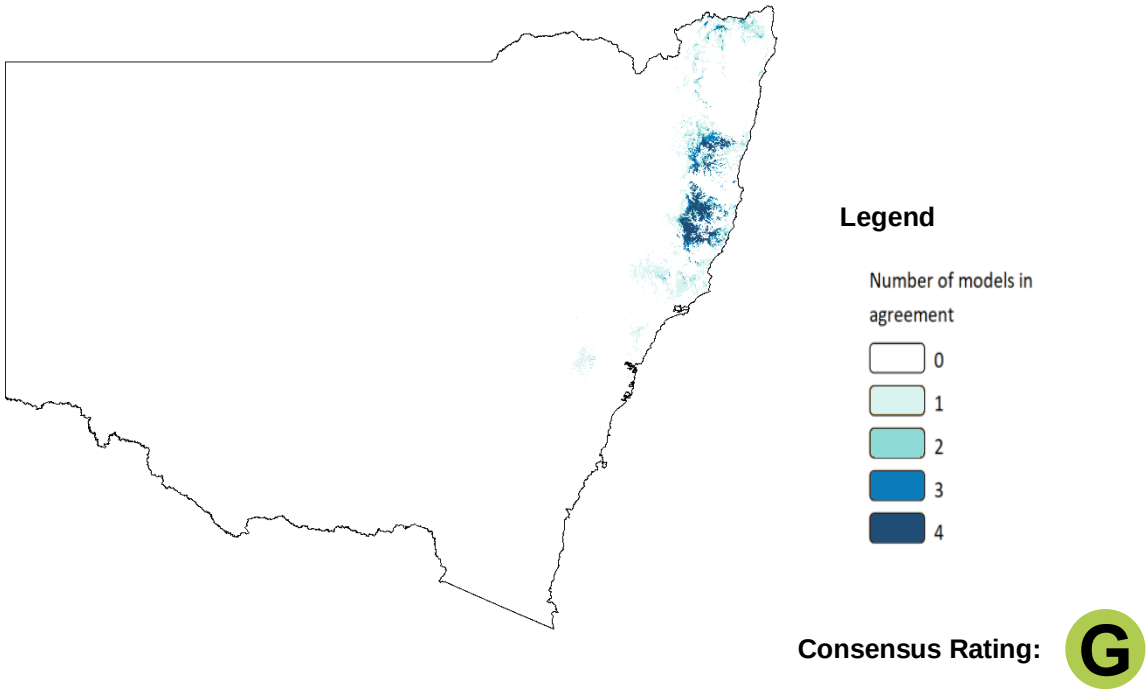
Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	427 - 561 m
Species dispersal movement	546 - 620 m
Minimum habitat for viable population	2,853 ha

Distribution of landscape capacity over time



Climate model consensus (number of models in agreement)



Consensus Rating: G

Tryon's skink species forecast to 2070

Scientific name: *Silvascincus tryoni*

Conservation status in NSW: Not Listed

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	65%	49%	48%
Landscape capacity from 2000	154%	100%	75%	74%

Predicted range shift

Projected landscape capacity is shifting to higher elevation and is moving south.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	125 - 164 m
Species dispersal movement	219 - 249 m
Minimum habitat for viable population	250 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)

Consensus Rating: M

Narrow-banded snake species forecast to 2070

Scientific name: *Brachyurophis fasciolatus*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

M

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	33%	37%	24%
Landscape capacity from 2000	303%	100%	112%	73%

Predicted range shift

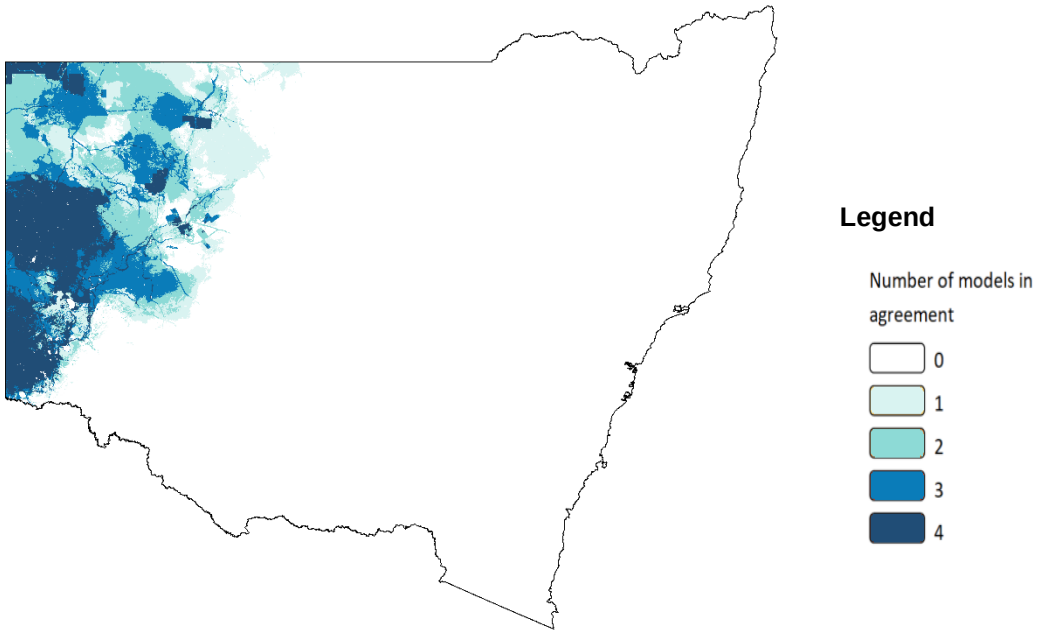
Projected landscape capacity is contracting.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	5 - 500 m
Species dispersal movement	10,000 - 20,000 m
Minimum habitat for viable population	5,000 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: M

Rosenberg's goanna species forecast to 2070

Scientific name: *Varanus rosenbergi*

Conservation status in NSW: Vulnerable

Forecast of landscape capacity

G

Total landscape capacity remaining over time

	1750	2000	2030	2070
Landscape capacity from pre-industrial levels	100%	22%	23%	25%
Landscape capacity from 2000	455%	100%	105%	114%

Predicted range shift

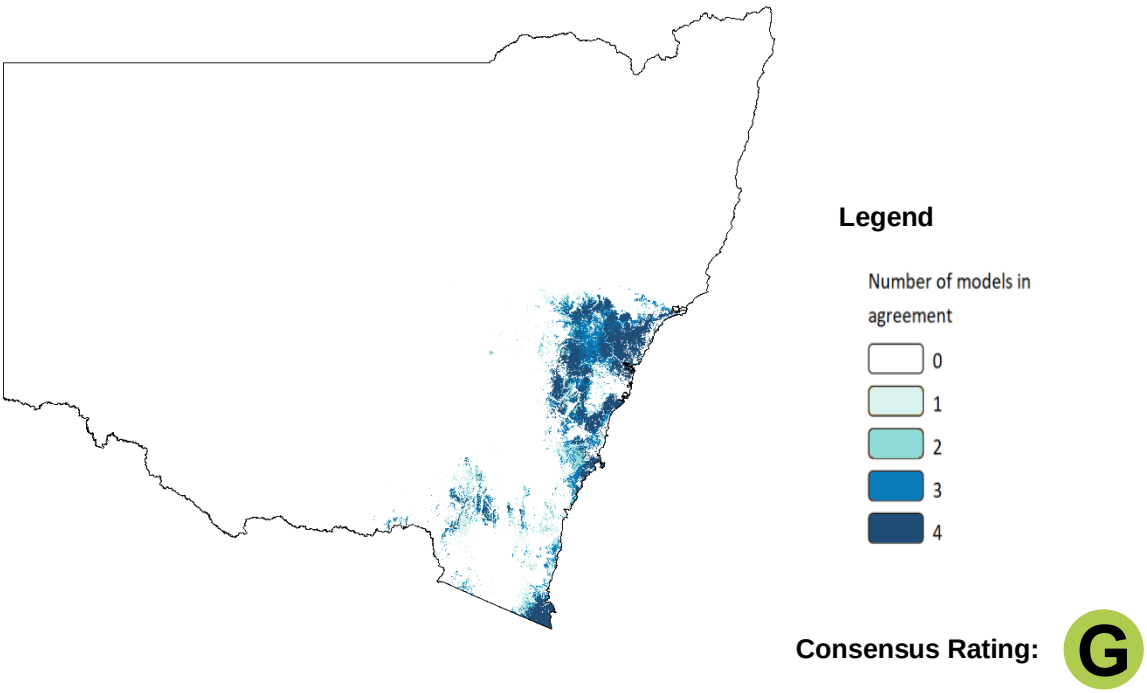
Projected landscape capacity is mostly stable.

Species landscape characteristics

Characteristic	Distance/Area
Species day to day movement ability	509 - 670 m
Species dispersal movement	593 - 674 m
Minimum habitat for viable population	3,566 ha

Distribution of landscape capacity over time

Climate model consensus (number of models in agreement)



Consensus Rating: G

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