

After The Fires

PROTECTING OUR FOREST REFUGES – APPENDICES

JANUARY
2021

CRITICAL AREAS FOR
PROTECTING FAUNA
AND FLORA AFFECTED
BY THE 2019–20
BUSHFIRES

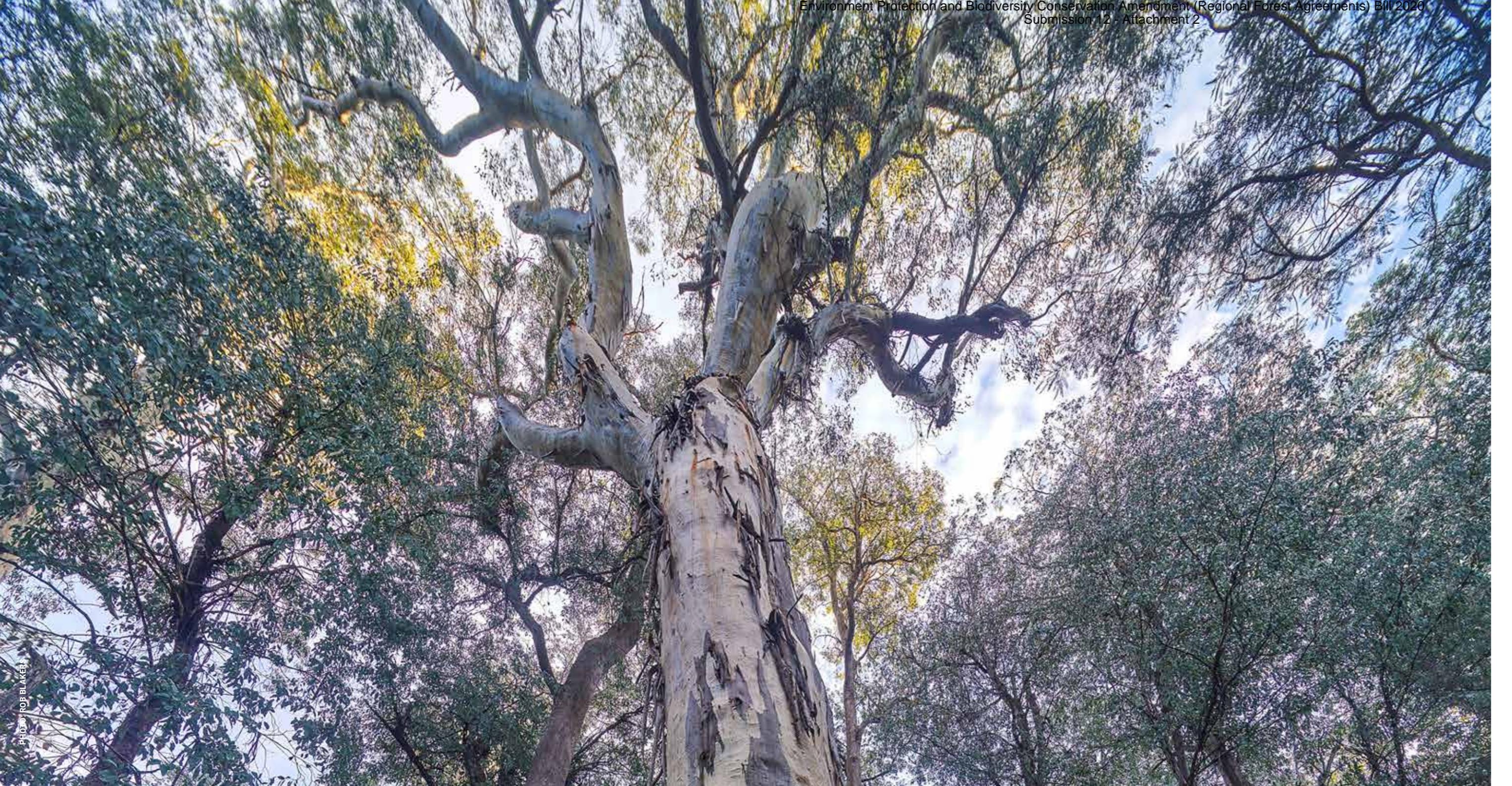


PHOTO: ROB BLAKER

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Cover photo: Rob Blakers



PHOTO: CHRIS TAYLOR

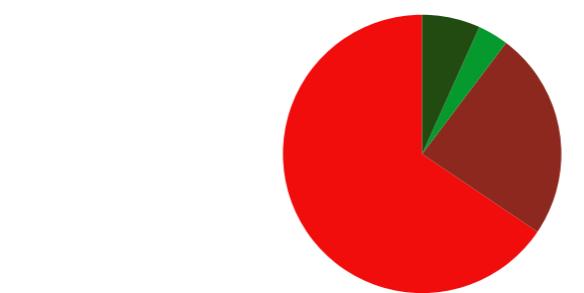
Appendices

A. Habitat Importance Analysis

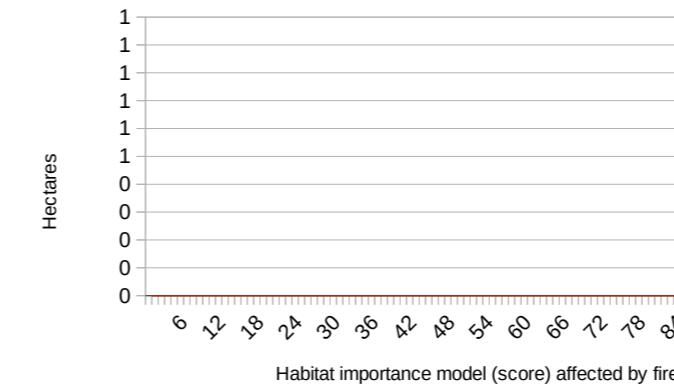
Giant Burrowing Frog

Giant Burrowing Frog - Habitat Importance Model (score) affected by 2019/20 bushfire and protected areas within 3 eastern Forest Management Areas

East Gippsland, North East, Tambo FMA's



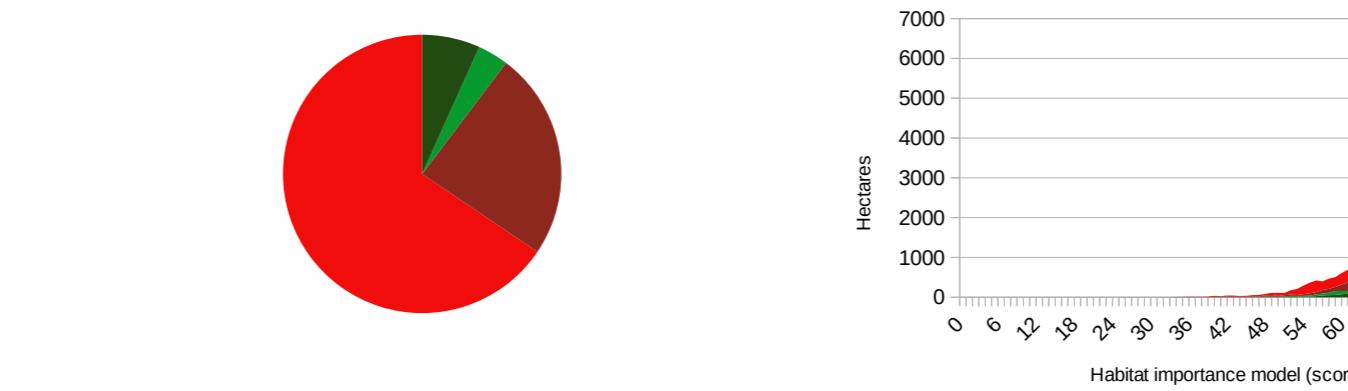
North East Forest Management Area



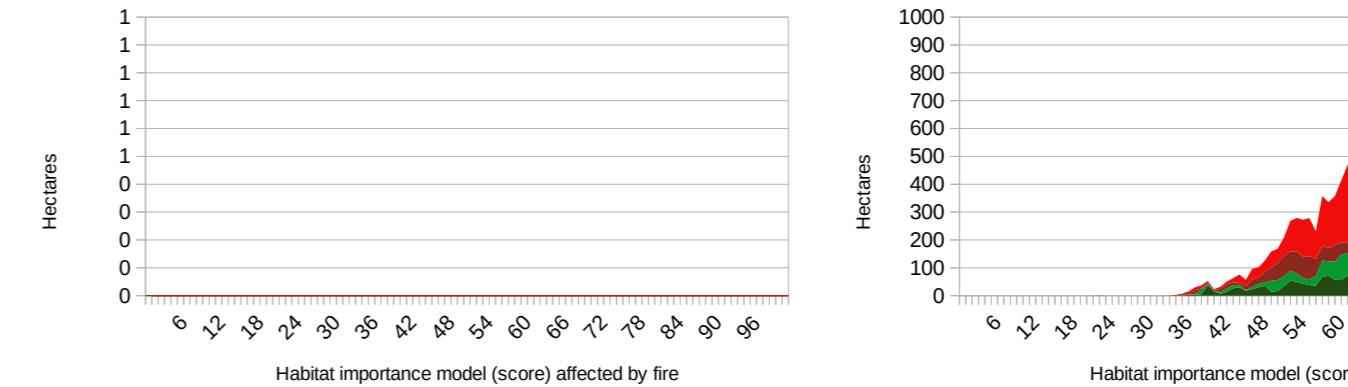
Area figures are hectares of the species "Habitat Importance Model" map (See: https://www.environment.vic.gov.au/_data/assets/pdf_file/0036/82989/2-NaturePrint-Habitat-Models.pdf; data.vic.gov.au) displayed in the FMA level graphs by "DN" score from 0 (lowest) to 100 (highest). "Burnt" represents those areas within the 2019/20 bushfire fire boundary polygon (Bushfires_Extract_BurnExtent_20200210) current to 10 Feb. 2020. Percentage figures are the proportion of area protected (PARKRES/SPZ) or unprotected (GMZ/SMZ/other) and burnt/unburnt per Forest Management Area.

Figure A- 1: Giant Burrowing Frog HIM analysis

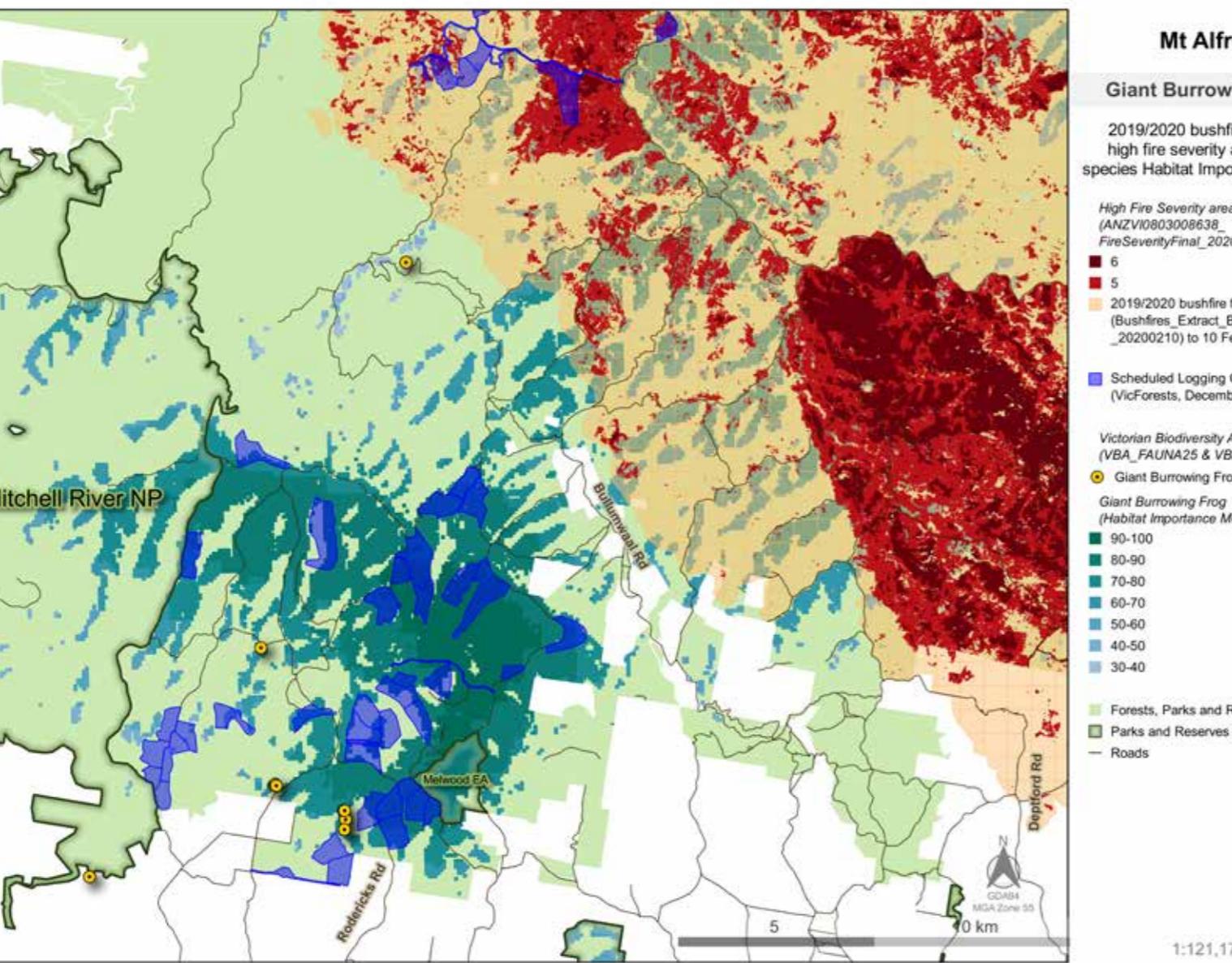
East Gippsland Forest Management Area



Tambo Forest Management Area



Giant Burrowing Frog (cont).

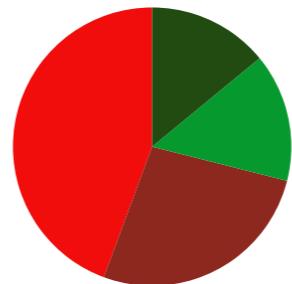


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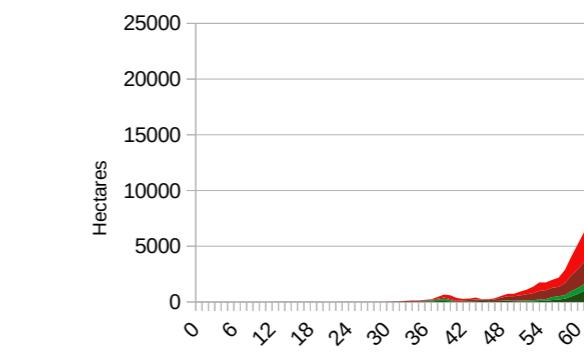
Glossy Black Cockatoo

Glossy Black-Cockatoo - Habitat Importance Model (score) affected by 2019/20 bushfire and protected areas within 3 eastern Forest Management Areas

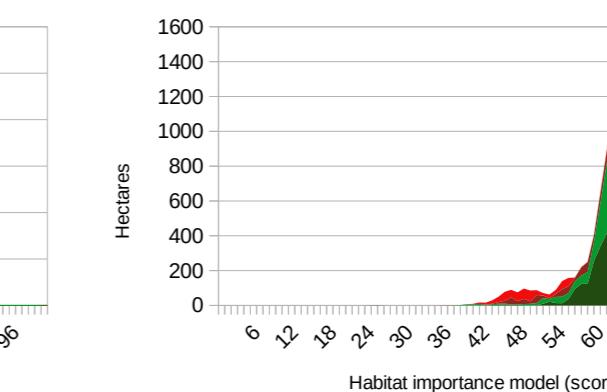
East Gippsland, North East, Tambo FMA's



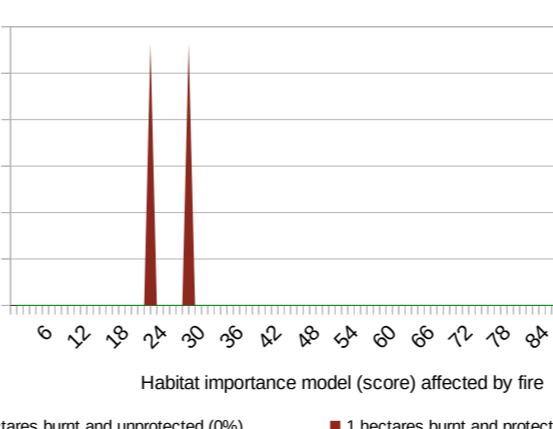
East Gippsland Forest Management Area



Tambo Forest Management Area



North East Forest Management Area



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Area figures are hectares of the species' "Habitat Importance Model" map (See: https://www.environment.vic.gov.au/_data/assets/pdf_file/0036/82989/2-NaturePrint-Habitat-Models.pdf; data.vic.gov.au) displayed in the FMA level graphs by "DN" score from 0 (lowest) to 100 (highest). "Burnt" represents those areas within the 2019/20 bushfire fire boundary polygon (Bushfires_Extract_BurnExtent_20200210) current to 10 Feb. 2020. Percentage figures are the proportion of area protected (PARKRES/SPZ) or unprotected (GMZ/SMZ/other) and burnt/unburnt per Forest Management Area.

Glossy Black Cockatoo (cont).

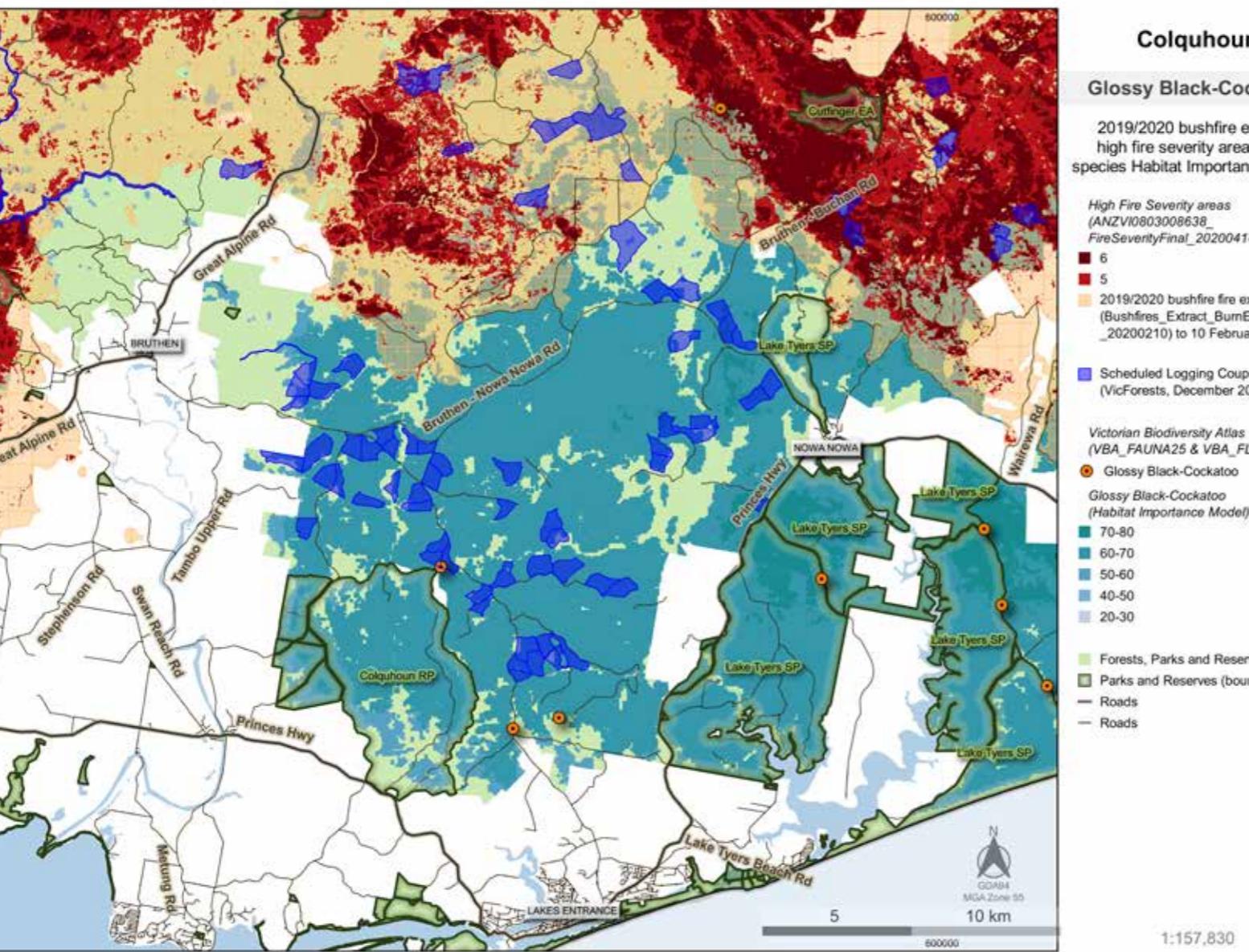


Figure A- 4: Glossy Black Cockatoo habitat and detections in Colquhoun region

Glossy Black Cockatoo (cont).

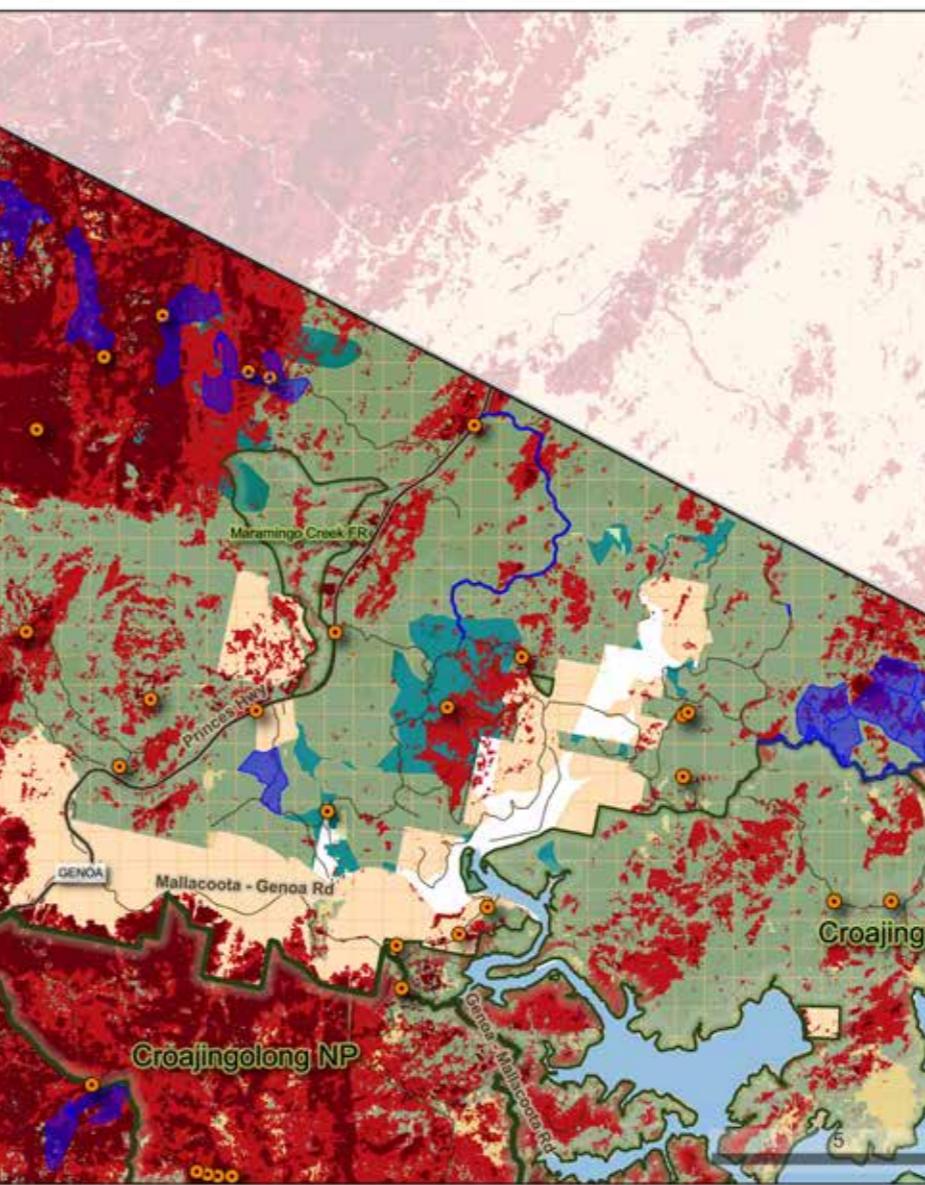


Figure A- 5: Glossy Black Cockatoo habitat and detections in Far East Gippsland region

Colquhoun

Glossy Black-Cockatoo

2019/2020 bushfire extent,
high fire severity areas and
species Habitat Importance Model

High Fire Severity areas
(ANZVI0803008638_
FireSeverityFinal_20200414)
■ 6
■ 5
■ 4
■ 3
■ 2
■ 1
■ 0
2019/2020 bushfire fire extent
(Bushfires_Extract_BurnExtent
_20200210) to 10 February 2020

Scheduled Logging Coupes
(VicForests, December 2020)

Victorian Biodiversity Atlas
(VBA_FAUNA25 & VBA_FLORA25)

● Glossy Black-Cockatoo
Glossy Black-Cockatoo
(Habitat Importance Model)
■ 70-80
■ 60-70
■ 50-60
■ 40-50
■ 20-30

Forests, Parks and Reserves

■ Parks and Reserves (boundary)

— Roads

— Roads

1:157,830

5
10 km
600000

Far East Gippsland

Glossy Black-Cockatoo

2019/2020 bushfire extent,
high fire severity areas and
species Habitat Importance Model

High Fire Severity areas
(ANZVI0803008638_
FireSeverityFinal_20200414)
■ 6
■ 5
■ 4
■ 3
■ 2
■ 1
■ 0
2019/2020 bushfire fire extent
(Bushfires_Extract_BurnExtent
_20200210) to 10 February 2020

Scheduled Logging Coupes
(VicForests, December 2020)

Victorian Biodiversity Atlas
(VBA_FAUNA25 & VBA_FLORA25)

● Glossy Black-Cockatoo
Glossy Black-Cockatoo
(Habitat Importance Model)
■ 80-90
■ 70-80
■ 60-70
■ 50-60
■ 40-50
■ 20-30

Forests, Parks and Reserves

■ Parks and Reserves (boundary)

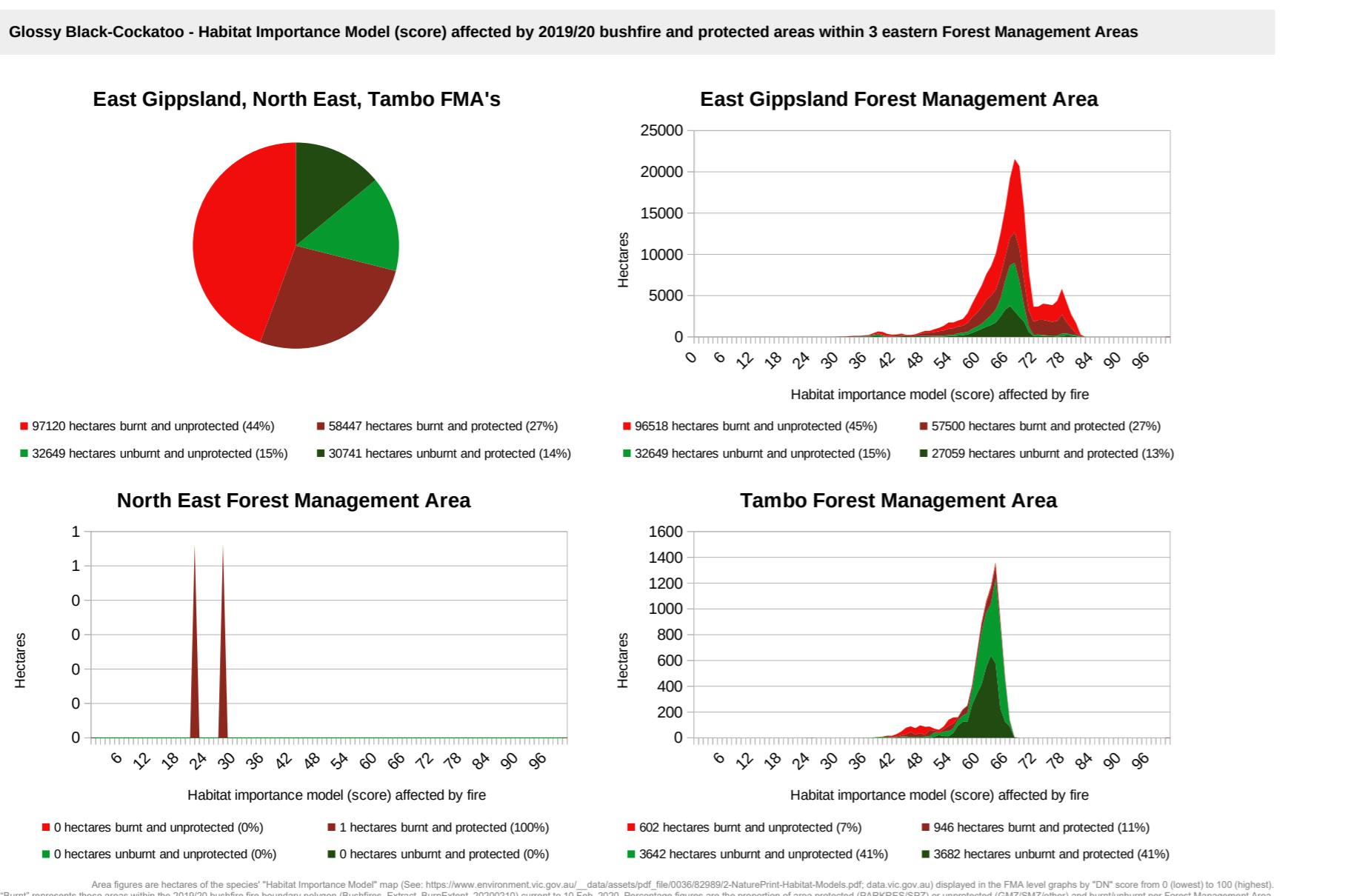
— Roads

— Roads

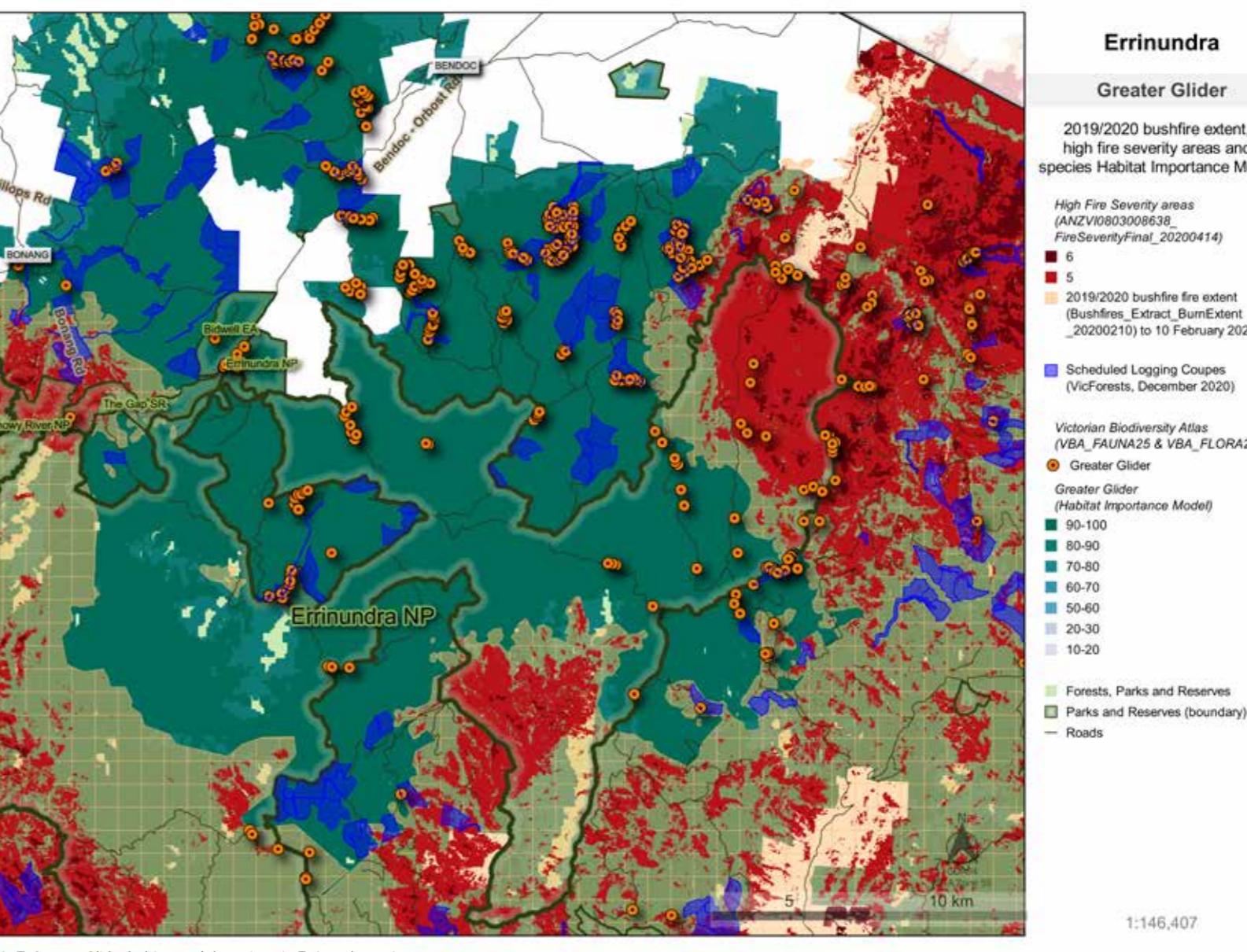
1:113,138

5
10 km
MGA Zone 55

Greater Glider



Greater Glider (cont.)



Greater Glider (cont.)

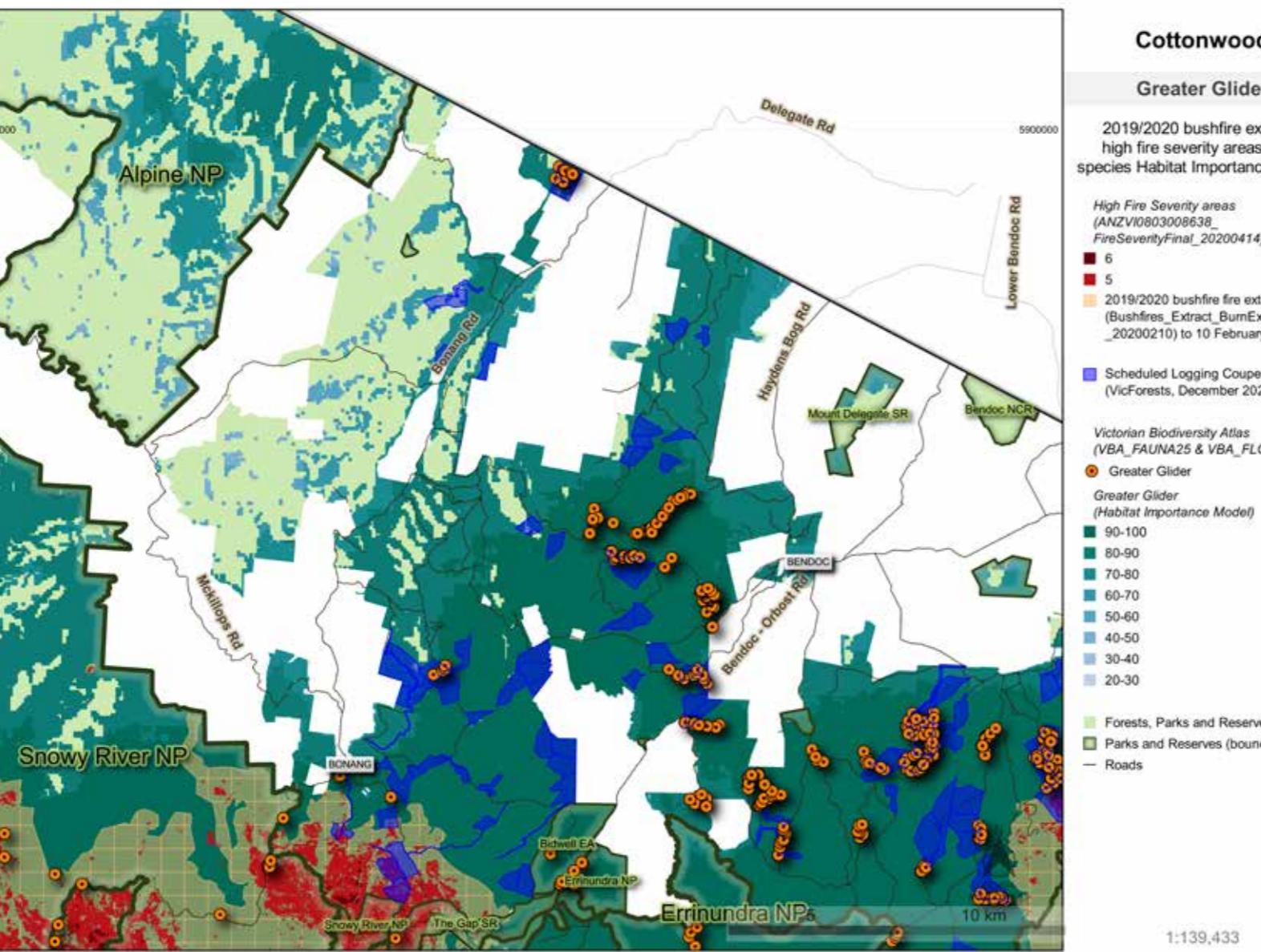


Figure A- 8: Greater Glider habitat and detections in Cottonwood region

Cottonwood

Greater Glider

2019/2020 bushfire extent, high fire severity areas and species Habitat Importance Model

High Fire Severity areas
(ANZVI0803008638_FireSeverityFinal_20200414)

■ 6

■ 5

2019/2020 bushfire fire extent
(Bushfires_Extract_BurnExtent_20200210) to 10 February 2020

■ Scheduled Logging Coupes
(VicForests, December 2020)

Victorian Biodiversity Atlas
(VBA_FAUNA25 & VBA_FLORA25)

● Greater Glider

Greater Glider
(Habitat Importance Model)

■ 90-100

■ 80-90

■ 70-80

■ 60-70

■ 50-60

■ 40-50

■ 30-40

■ 20-30

Forests, Parks and Reserves

■ Parks and Reserves (boundary)

— Roads

1:139,433

Greater Glider (cont.)

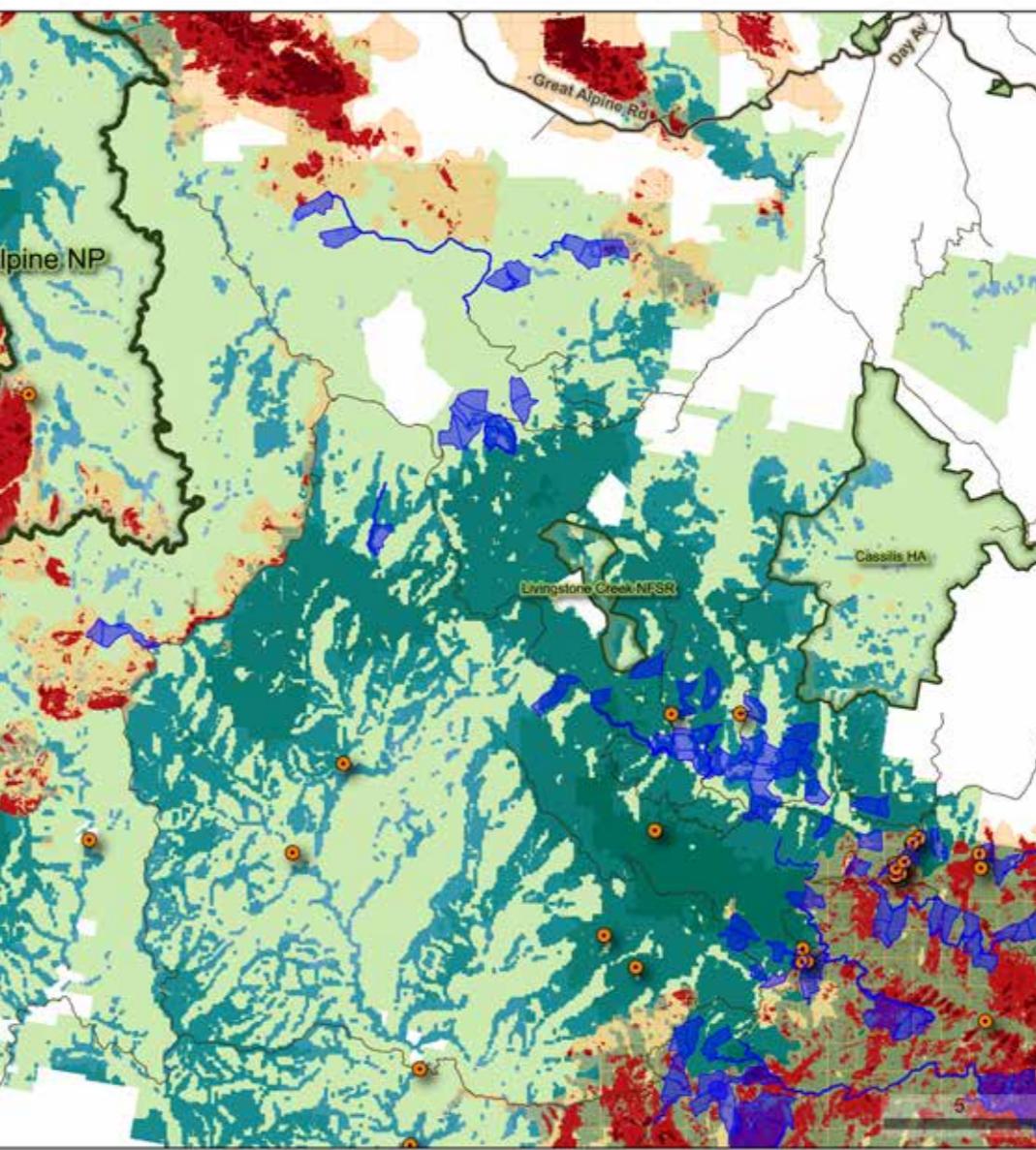


Figure A- 9: Greater Glider habitat and detections in Swifts Creek (West) region

Swifts Creek (west)

Greater Glider

2019/2020 bushfire extent, high fire severity areas and species Habitat Importance Model

High Fire Severity areas
(ANZVI0803008638_FireSeverityFinal_20200414)

■ 6

■ 5

2019/2020 bushfire fire extent
(Bushfires_Extract_BurnExtent_20200210) to 10 February 2020

■ Scheduled Logging Coupes
(VicForests, December 2020)

Victorian Biodiversity Atlas
(VBA_FAUNA25 & VBA_FLORA25)

● Greater Glider

Greater Glider
(Habitat Importance Model)

■ 90-100

■ 80-90

■ 70-80

■ 60-70

■ 50-60

■ 40-50

■ 30-40

■ 20-30

Forests, Parks and Reserves

■ Parks and Reserves (boundary)

— Roads

1:178,664

Greater Glider (cont.)

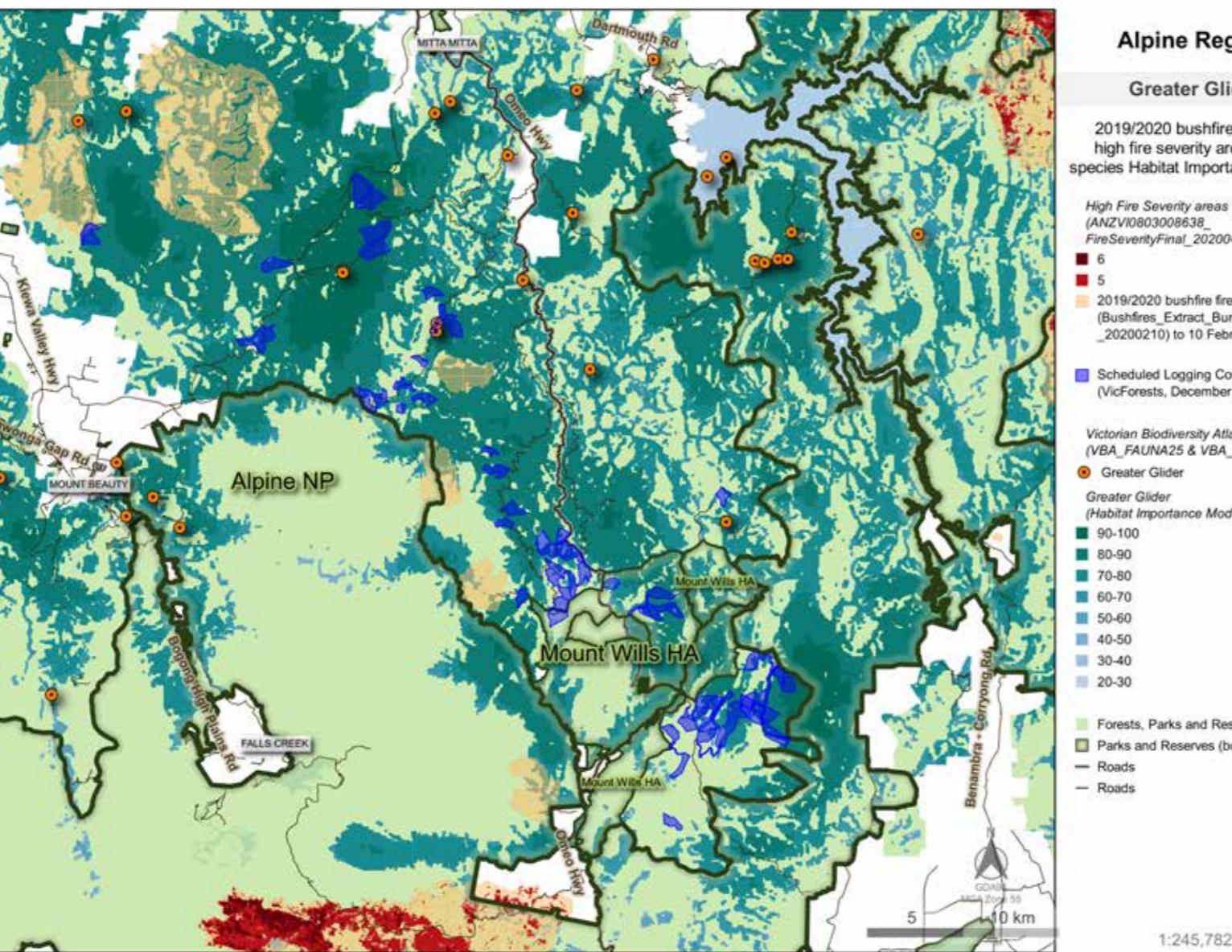


Figure A-10: Greater Glider habitat and detections in Alpine region

Lace Monitor

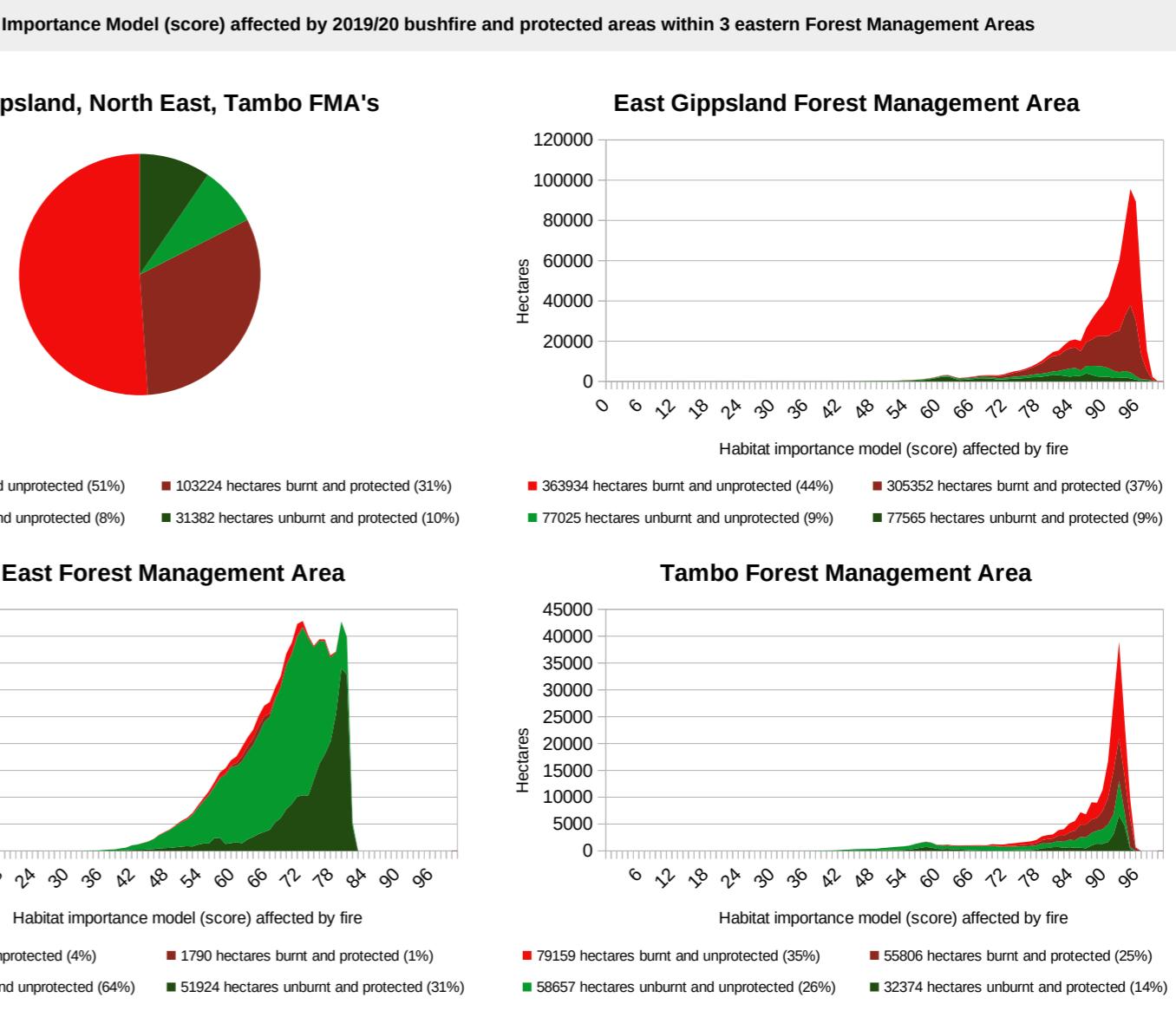


Figure A-11: Lace Monitor HIM analysis

Lace Monitor (cont.)

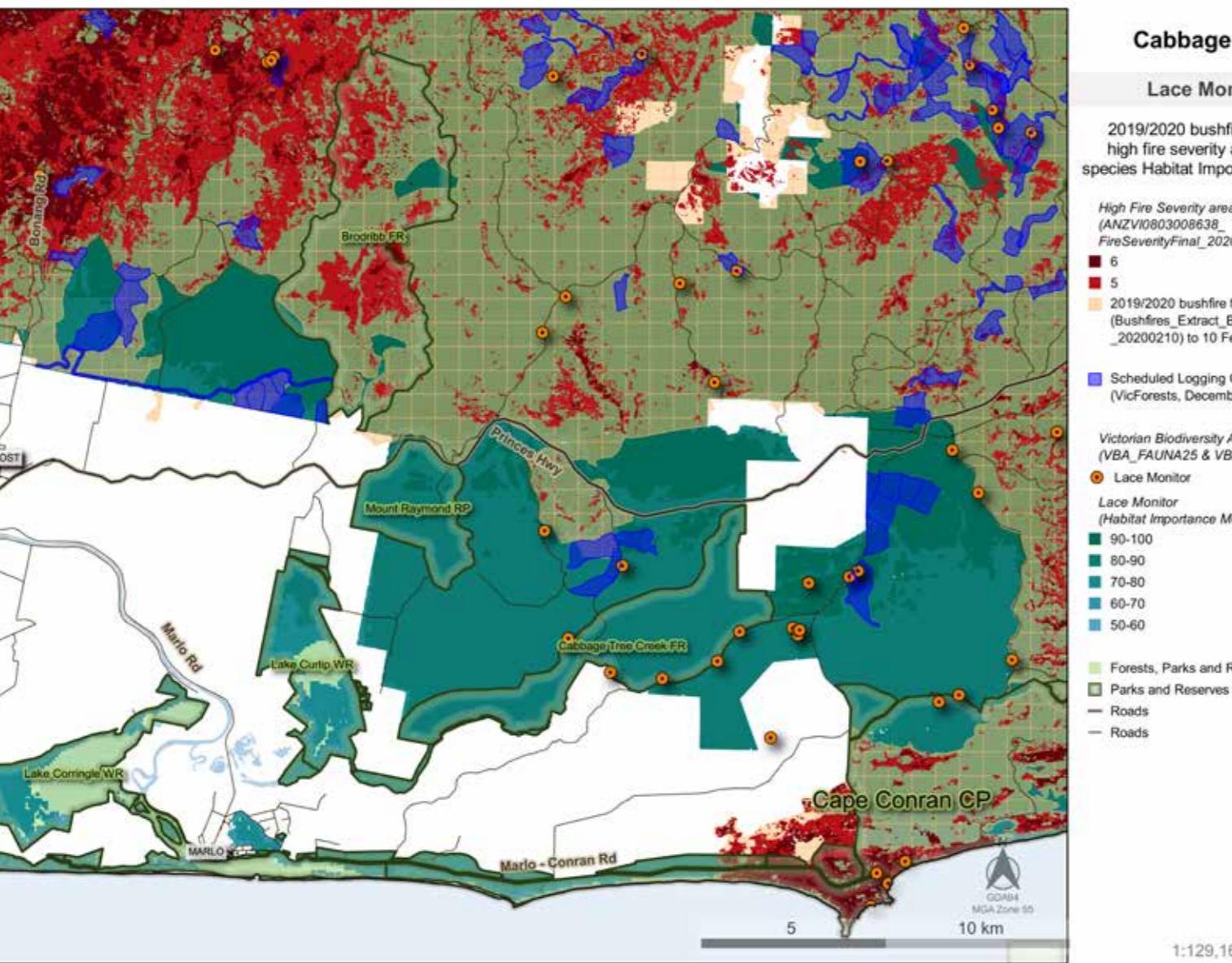


Figure A-12: Lace Monitor habitat and detections in Cabbage Tree region

Long-footed Potoroo

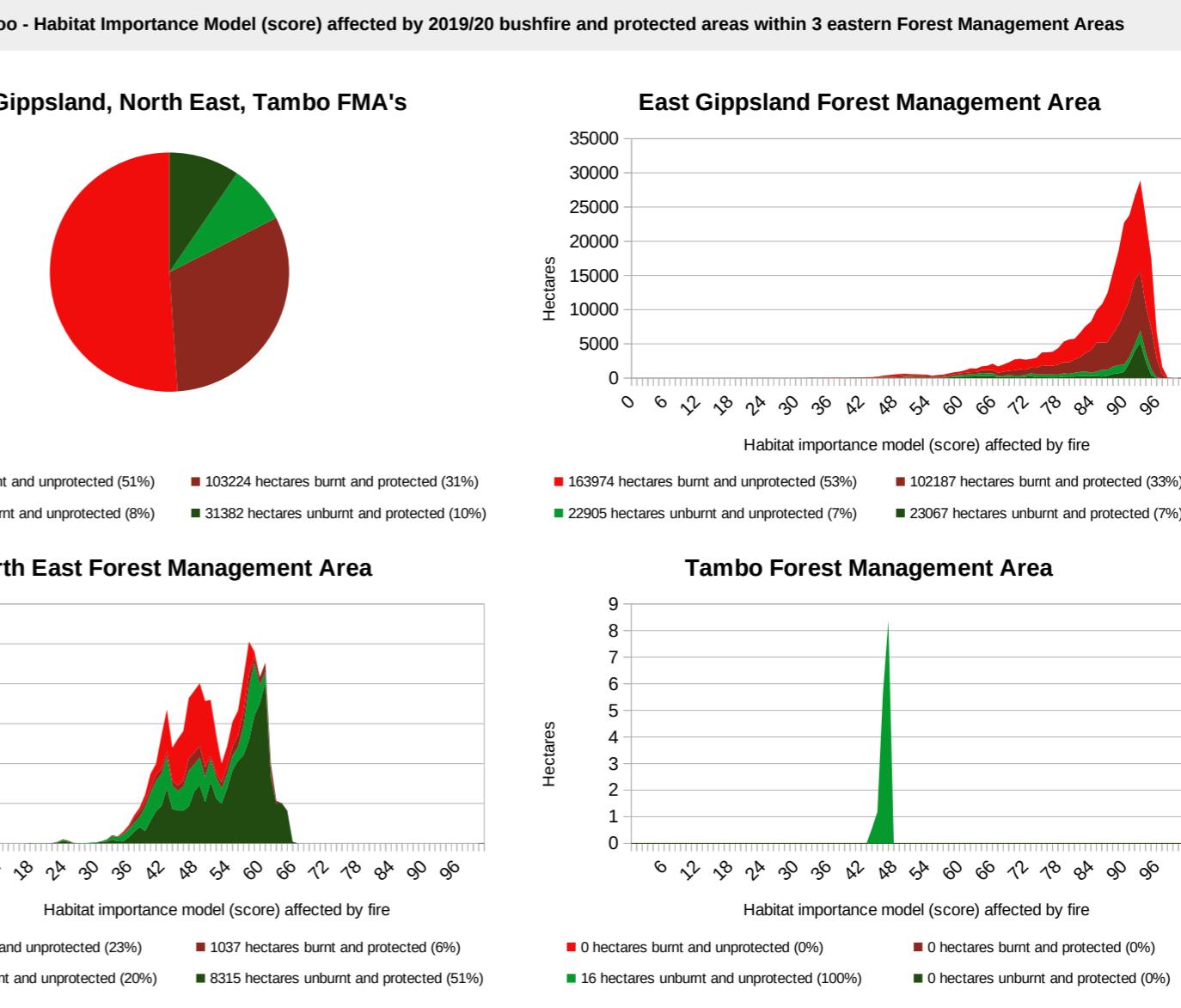


Figure A-13: Long-footed Potoroo HIM analysis

Long-footed Potoroo (cont.)

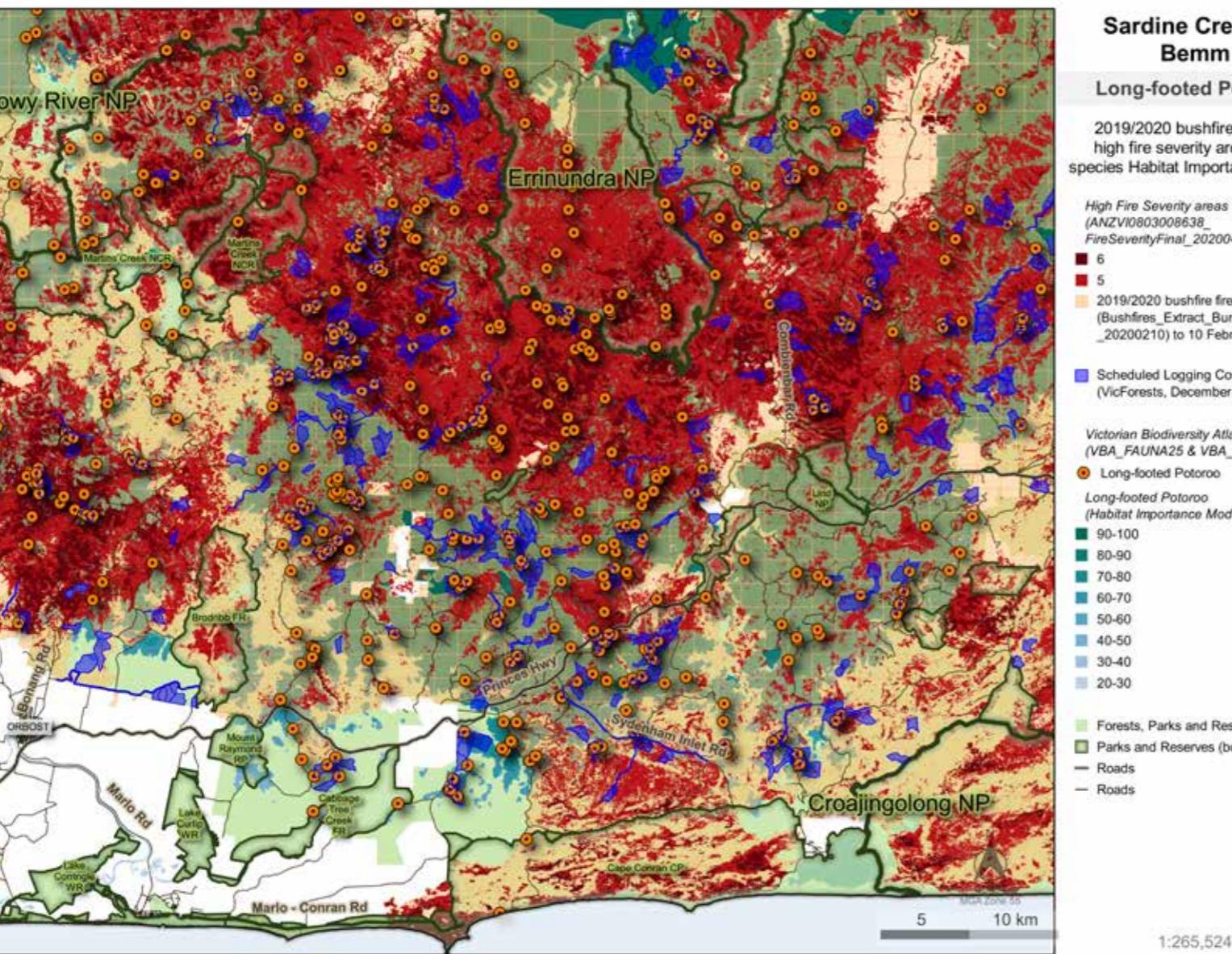


Figure A-14: Long-footed Potoroo habitat and detections in Sardine Creek to Bemm region

Masked Owl

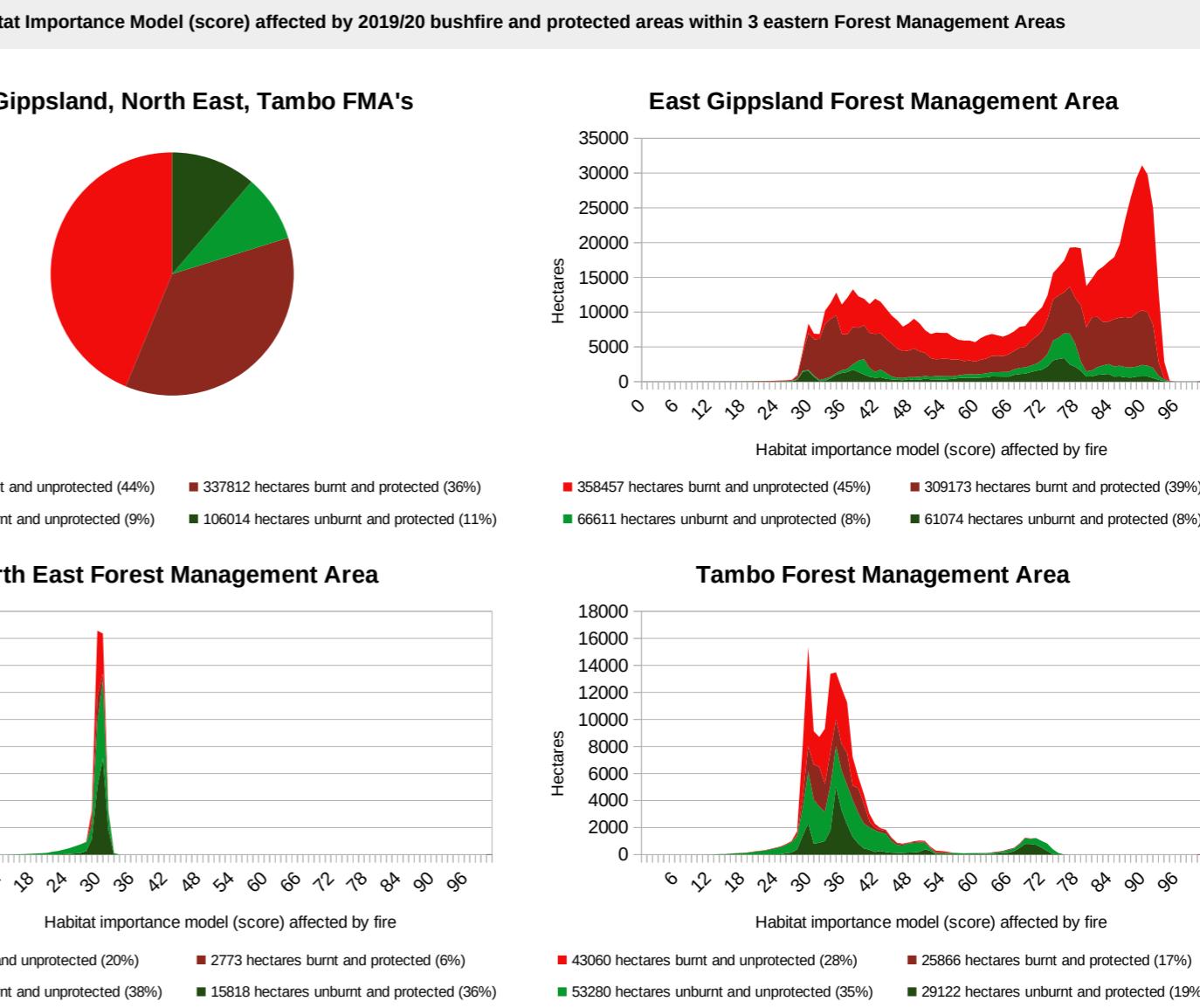


Figure A-15: Masked Owl HIM analysis

Masked Owl (cont.)

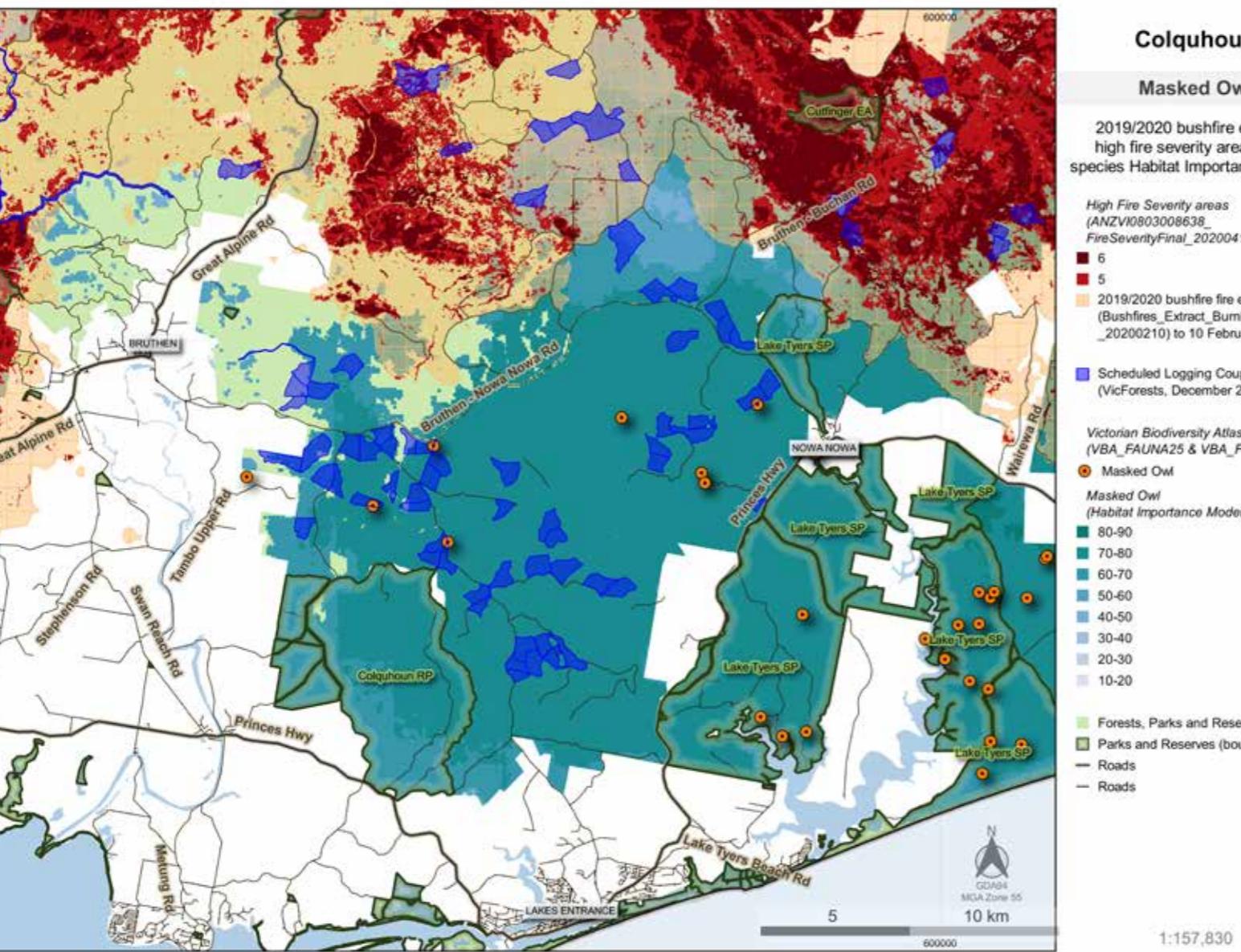


Figure A-16: Masked Owl habitat and detections in Colquhoun region

Powerful Owl

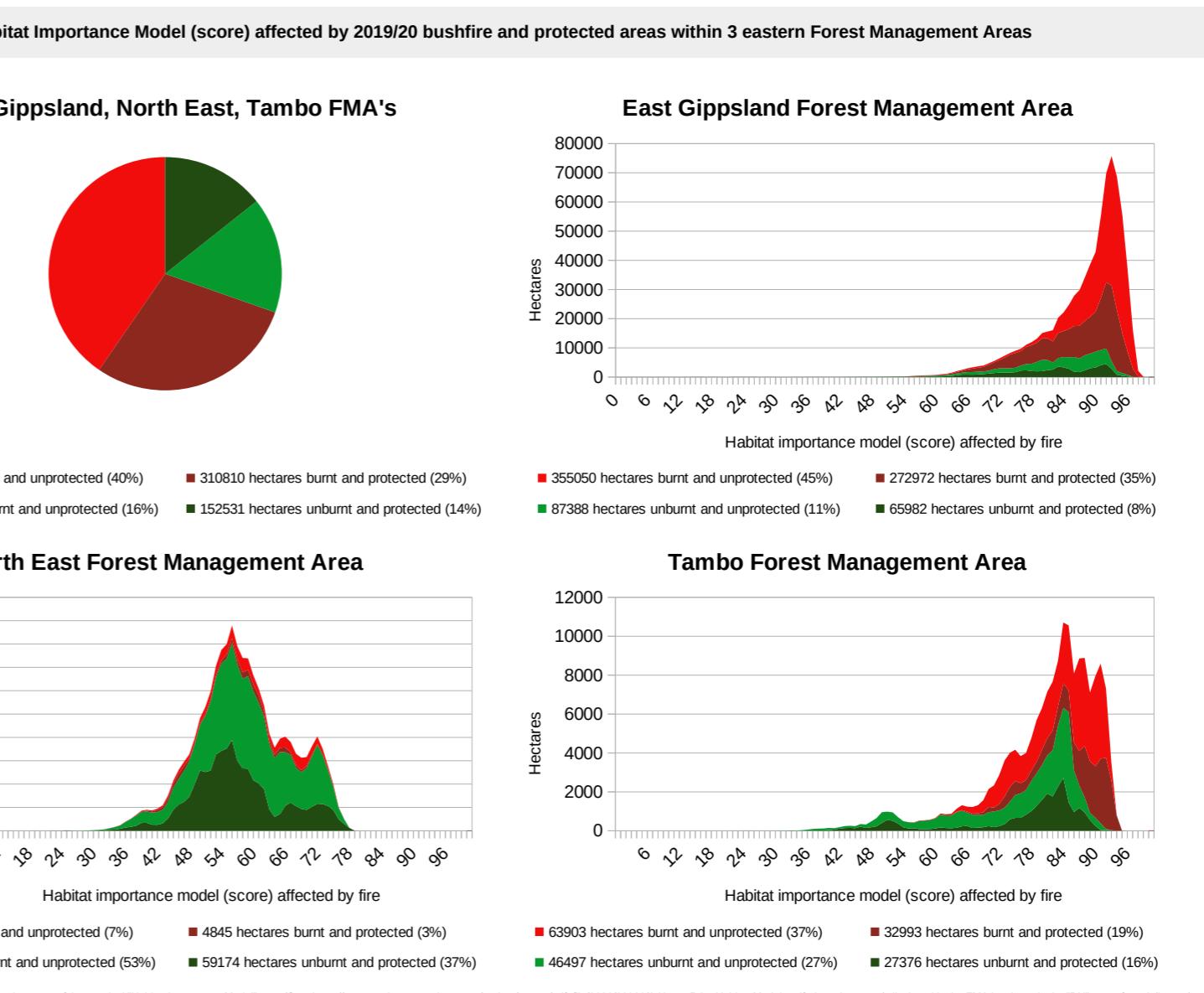


Figure A-17: Powerful Owl HIM analysis

Powerful Owl (cont.)

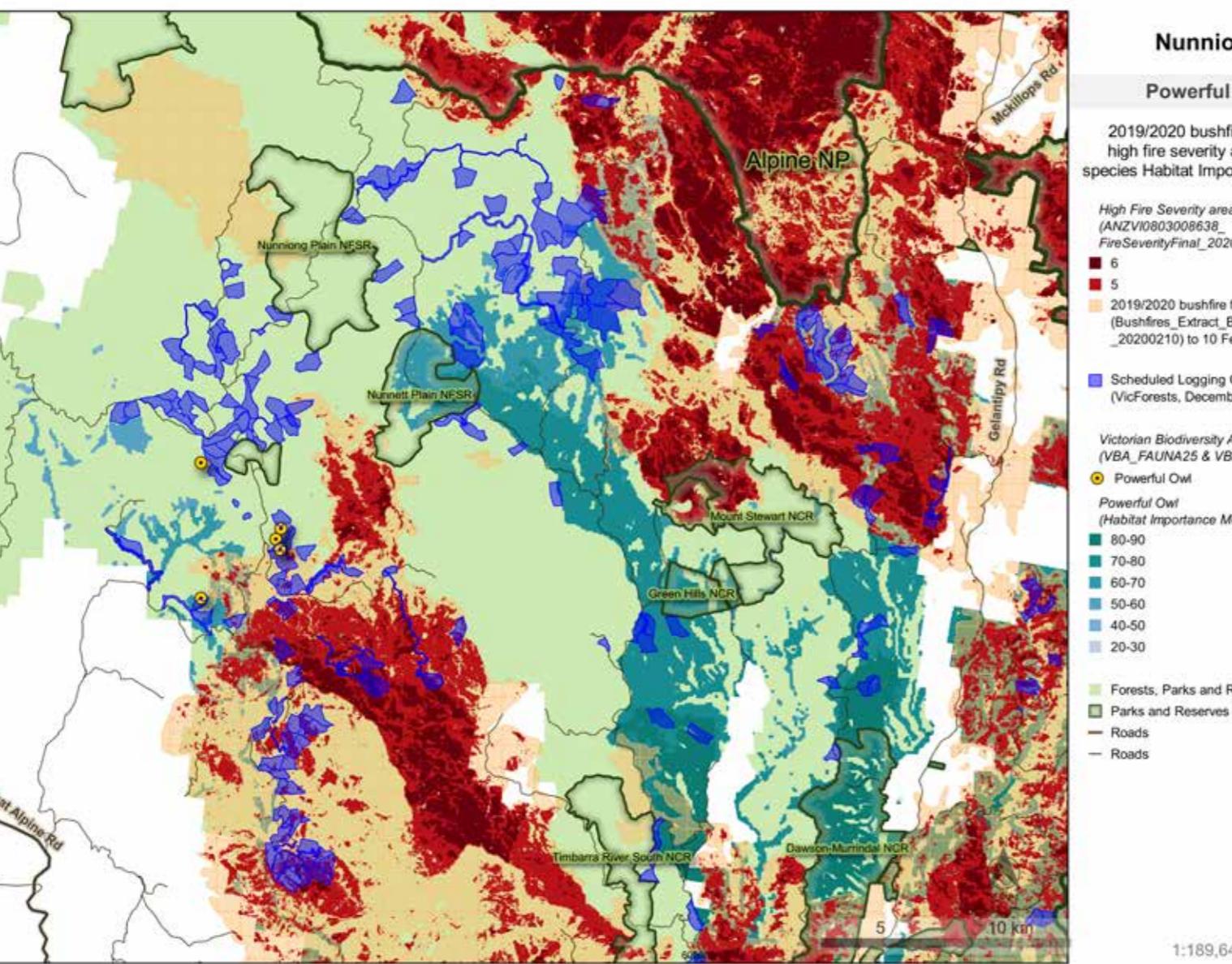
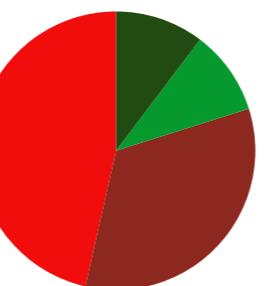


Figure A-18: Powerful Owl habitat and detections in Nunniong region

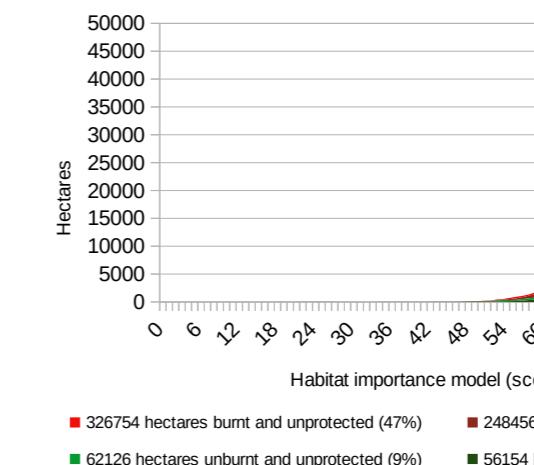
Sooty Owl

Sooty Owl - Habitat Importance Model (score) affected by 2019/20 bushfire and protected areas within 3 eastern Forest Management Areas

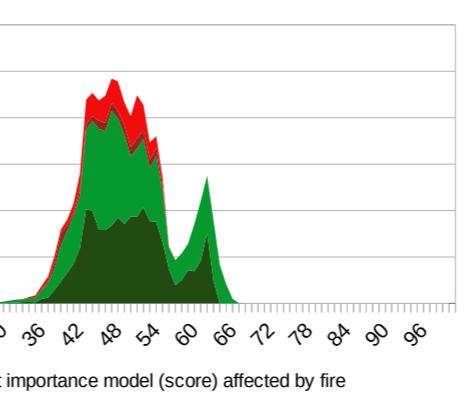
East Gippsland, North East, Tambo FMA's



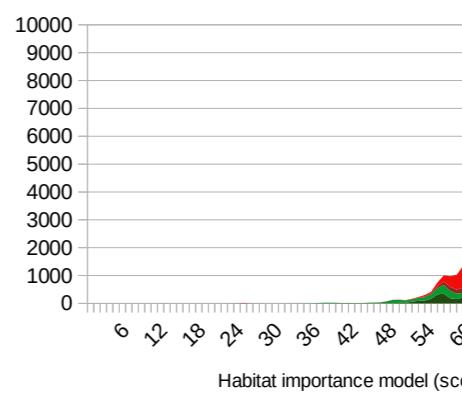
East Gippsland Forest Management Area



North East Forest Management Area



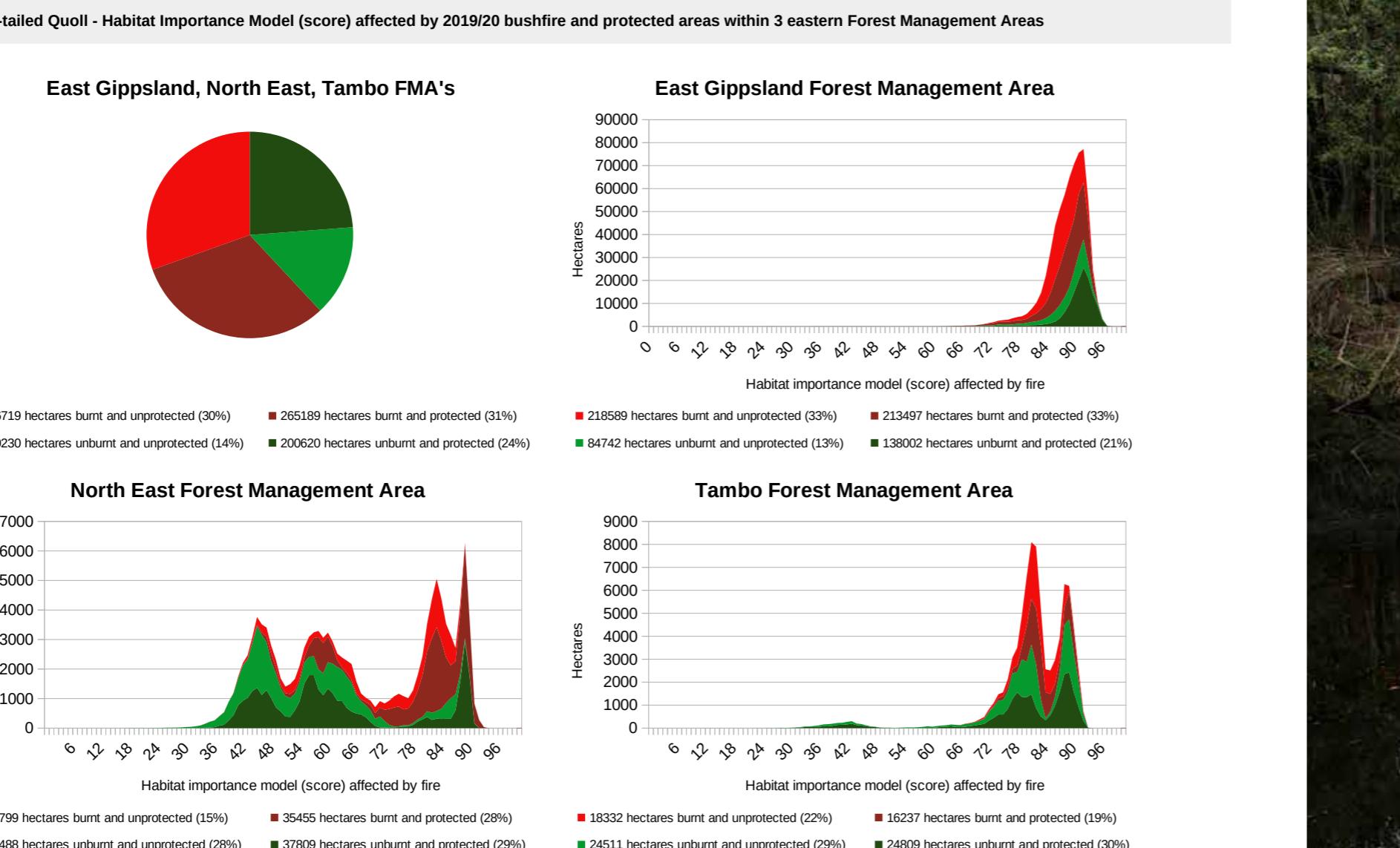
Tambo Forest Management Area



Area figures are hectares of the species' "Habitat Importance Model" map (See: https://www.environment.vic.gov.au/_data/assets/pdf_file/0036/82989/2-NaturePrint-Habitat-Models.pdf; data.vic.gov.au) displayed in the FMA level graphs by "DN" score from 0 (lowest) to 100 (highest). "Burnt" represents those areas within the 2019/20 bushfire fire boundary polygon (Bushfires_Extract_BurnExtent_20200210) current to 10 Feb. 2020. Percentage figures are the proportion of area protected (PARKRES/SPZ) or unprotected (GMZ/SMZ/other) and burnt/unburnt per Forest Management Area.

Figure A-19: Sooty Owl HIM analysis

Spot-tailed Quoll



B. Scheduled logging coupes in key refuge areas

Number of coupes/Hectares	Forest Management Area						Total	Coupes	Areas	
	Key identified refuge area		East Gippsland		Tambo					
	# coupes	hectares	# coupes	hectares	# coupes	hectares	# coupes	hectares		
Alpine Region			10	462	37	1759	47	2221	679-509-0001, 679-509-0002, 679-510-0001, 679-513-0001, 682-508-0001, 684-501-0010, 684-504-0005, 684-504-0006, 684-504-0008, 684-504-0009, 684-514-0006, 685-505-0001, 685-507-0001, 685-507-0004, 686-503-0001, 686-507-0019, 686-508-0013, 686-510-0002, 686-510-0004, 686-510-0012, 686-510-0021, 686-510-0023, 686-510-0024, 686-511-0002, 687-504-0001, 687-504-0002, 687-505-0001, 687-506-0004, 687-511-0006, 687-511-0007, 687-513-0002, 687-513-0003, 688-517-0001, 688-517-0002, 688-522-0001, 688-523-0001, 749-501-0017, 749-501-0018, 749-501-0023, 749-507-0003, 749-507-0005, 749-508-0001, 749-509-0004, 749-509-0006, 749-510-0003	
Cabbage Tree	25	984					25	984	827-512-0006, 827-512-0007, 827-512-0008, 827-512-0009, 827-514-0017, 827-514-0018, 827-514-0019, 828-505-0003, 828-505-0004, 828-505-0005, 828-505-0006, 831-506-0021, 831-508-0010, 832-507-0010, 832-507-0015, 832-508-0019, 835-502-0002, 835-502-0007, 835-502-0009, 835-502-0010, 835-502-0011, 835-505-0001, 835-505-0008, 835-511-0002, 835-511-0003	
Colquhoun	36	1292	17	597			53	1889	739-509-0005, 739-510-0014, 741-506-0006, 741-506-0007, 742-513-0010, 742-513-0011, 743-501-0009, 743-501-0010, 743-501-0011, 743-501-0012, 743-501-0013, 743-502-0007, 743-502-0008, 743-502-0009, 743-503-0002, 743-505-0002, 743-506-0001, 801-504-0012, 801-505-0008, 801-505-0012, 801-507-0004, 801-507-0009, 801-507-0011, 801-507-0013, 801-507-0017, 801-507-0019, 801-507-0020, 801-508-0007, 801-508-0008, 801-508-0009, 801-508-0010, 801-509-0011, 801-509-0012, 801-511-0005, 801-511-0006, 801-511-0007, 801-511-0009, 801-511-0010, 801-511-0011, 801-511-0012, 803-504-0009, 803-504-0021, 803-504-0027, 803-504-0028, 803-504-0030, 803-504-0031, 803-504-0035, 803-507-0006, 804-502-0026, 804-502-0027, 805-503-0010, 806-504-0011, 823-510-0005	
Cottonwood	40	1228					40	1228	890-508-0001, 890-508-0019, 890-508-0020, 890-508-0021, 893-501-0003, 893-501-0008, 893-501-0010, 893-501-0011, 893-503-0018, 893-503-0019, 893-503-0020, 893-503-0021, 893-503-0022, 893-504-0002, 893-504-0008, 893-505-0003, 893-505-0004, 893-506-0009, 893-506-0010, 893-507-0012, 893-507-0013, 893-507-0014, 893-507-0015, 893-508-0011, 893-508-0012, 893-511-0003, 895-503-0003, 895-504-0005, 895-505-0011, 895-505-0012, 895-505-0013, 895-507-0018, 895-508-0002, 895-508-0003, 895-516-0004, 902-501-0010, 902-501-0011, 902-502-0001, 902-502-0006	
Errinundra	59	2117					59	2117	837-501-0004, 837-501-0008, 837-501-0017, 837-512-0007, 837-513-0008, 837-513-0013, 838-507-0025, 838-507-0026, 838-507-0029, 838-508-0010, 838-508-0012, 838-508-0013, 838-508-0014, 838-508-0015, 838-508-0016, 885-503-0013, 885-506-0009, 886-502-0015, 886-502-0019, 886-505-0020, 886-505-0021, 886-505-0022, 886-507-0014, 886-507-0015, 886-509-0012, 887-509-0007, 887-509-0016, 889-506-0021, 890-501-0011, 890-501-0013, 890-501-0017, 890-503-0013, 890-508-0024, 892-502-0014, 892-504-0001, 892-507-0006, 892-507-0014, 892-507-0015, 892-507-0021, 892-507-0022, 892-507-0023, 892-507-0026, 892-508-0005, 892-509-0002, 892-509-0005, 892-510-0001, 892-511-0002, 892-512-0005, 892-514-0001, 892-514-0005, 892-514-0006, 892-514-0011, 892-515-0005, 892-517-0013, 892-517-0015,	
Far East	9	363					9	363	848-502-0001, 848-502-0002, 848-502-0003, 848-506-0001, 848-506-0002, 848-506-0006, 849-506-0005, 877-507-0016, 878-502-0010	
Mt Alfred			34	1339			34	1339	725-505-0002, 725-506-0007, 725-506-0008, 725-506-0010, 735-506-0009, 735-507-0002, 735-508-0008, 735-508-0009, 735-508-0010, 735-508-0012, 735-508-0014, 735-508-0015, 735-508-0017, 735-508-0018, 735-509-0005, 735-509-0017, 735-510-0015, 735-510-0025, 735-510-0026, 735-511-0004, 735-516-0007, 735-518-0008, 735-518-0009, 735-518-0010, 735-519-0019, 735-520-0009, 735-520-0010, 735-520-0013, 737-502-0004, 737-505-0002, 737-505-0003, 737-505-0004, 737-505-0006	
Nun	56	2605	67	2378			123	4983	747-508-0004, 763-517-0001, 763-517-0002, 763-517-0006, 763-517-0007, 763-517-0009, 764-504-0008, 764-507-0003, 765-501-0009, 765-501-0011, 765-501-0012, 765-501-0014, 765-502-0115, 765-502-0118, 765-503-0005, 765-503-0008, 765-504-0004, 765-506-0004, 765-506-0009, 765-506-0014, 765-509-0002, 765-509-0003, 765-510-0009, 765-510-0011, 765-510-0016, 765-522-0005, 765-529-0014, 766-502-0004, 766-503-0011, 766-503-0014, 766-503-0024, 766-503-0027, 766-503-0032, 766-508-0001, 767-501-0001, 767-503-0008, 767-504-0015, 767-505-0002, 767-509-0006, 767-509-0008, 779-501-0002, 779-501-0013, 779-501-0017, 779-501-0018, 779-501-0019, 779-501-0022, 779-501-0023, 779-502-0028, 809-501-0003, 811-501-0006, 811-503-0002, 811-503-0005, 811-506-0003, 812-504-0023, 812-504-0025, 812-504-0026, 812-505-0006, 812-505-0007, 812-506-0019, 814-505-0003, 814-507-0004, 814-509-0009, 814-510-0006, 814-510-0008, 814-510-0009, 814-511-0017, 815-506-0003, 815-511-0001, 815-511-0002, 815-514-0002, 815-515-0003, 815-515-0007, 816-507-0015, 816-507-0017, 816-507-0018, 816-509-0003, 816-509-0007, 816-509-0008, 816-509-0019, 816-509-0020, 817-501-0002, 817-501-0003, 817-501-0004, 817-501-0015, 817-502-0001, 817-502-0013, 817-502-0015, 817-504-0002, 817-504-0003, 817-504-0004, 817-504-0005, 817-505-0001, 817-505-0002, 817-505-0003, 817-505-0006, 817-511-0011	
Sardine Creek to Bemm	96	3779					96	3779	829-507-0013, 829-509-0024, 829-510-0021, 829-511-0020, 829-517-0004, 829-517-0005, 831-501-0015, 831-502-0003, 832-501-0015, 832-501-0024, 832-501-0028, 832-501-0039, 832-502-0010, 832-502-0023, 832-503-0001, 832-505-0015, 832-508-0020, 833-507-0010, 833-516-0004, 834-504-0011, 834-504-0014, 834-506-0008, 834-507-0007, 834-507-0009, 834-507-0011, 838-505-0016, 842-503-0007, 842-504-0004, 842-504-0013, 842-504-0021, 842-504-0026, 842-507-0028, 842-519-0021, 842-519-0022, 842-520-0015, 842-520-0028, 842-520-0035, 843-507-0007, 864-501-0005, 864-504-0012, 864-507-0006, 865-508-0007, 866-501-0013, 866-508-0016, 866-508-0018, 866-508-0023, 866-508-0024, 866-508-0032, 866-508-0034, 866-511-0001, 866-511-0015, 866-512-0019, 867-503-0007, 868-504-0001, 868-504-0002, 868-504-0011, 871-507-0015, 872-509-0012, 872-509-0018, 872-511-0012, 883-503-0005, 883-503-0013, 883-504-0001, 883-504-0014, 883-504-0015, 883-505-0017, 883-506-0001, 884-513-0001, 884-517-0001, 884-517-0003, 885-515-0009	
Swift's Creek (west)			67	2238			67	2238	722-504-0001, 722-504-0007, 722-504-0008, 722-504-0010, 722-505-0011, 722-506-0018, 726-501-0009, 726-502-0018, 759-503-0002, 759-503-0003, 760-502-0018, 760-503-0002, 760-503-0003, 760-503-0004, 760-503-0008, 760-503-0018, 760-504-0018, 760-504-0021, 760-504-0023, 770-507-0002, 770-507-0003,	

