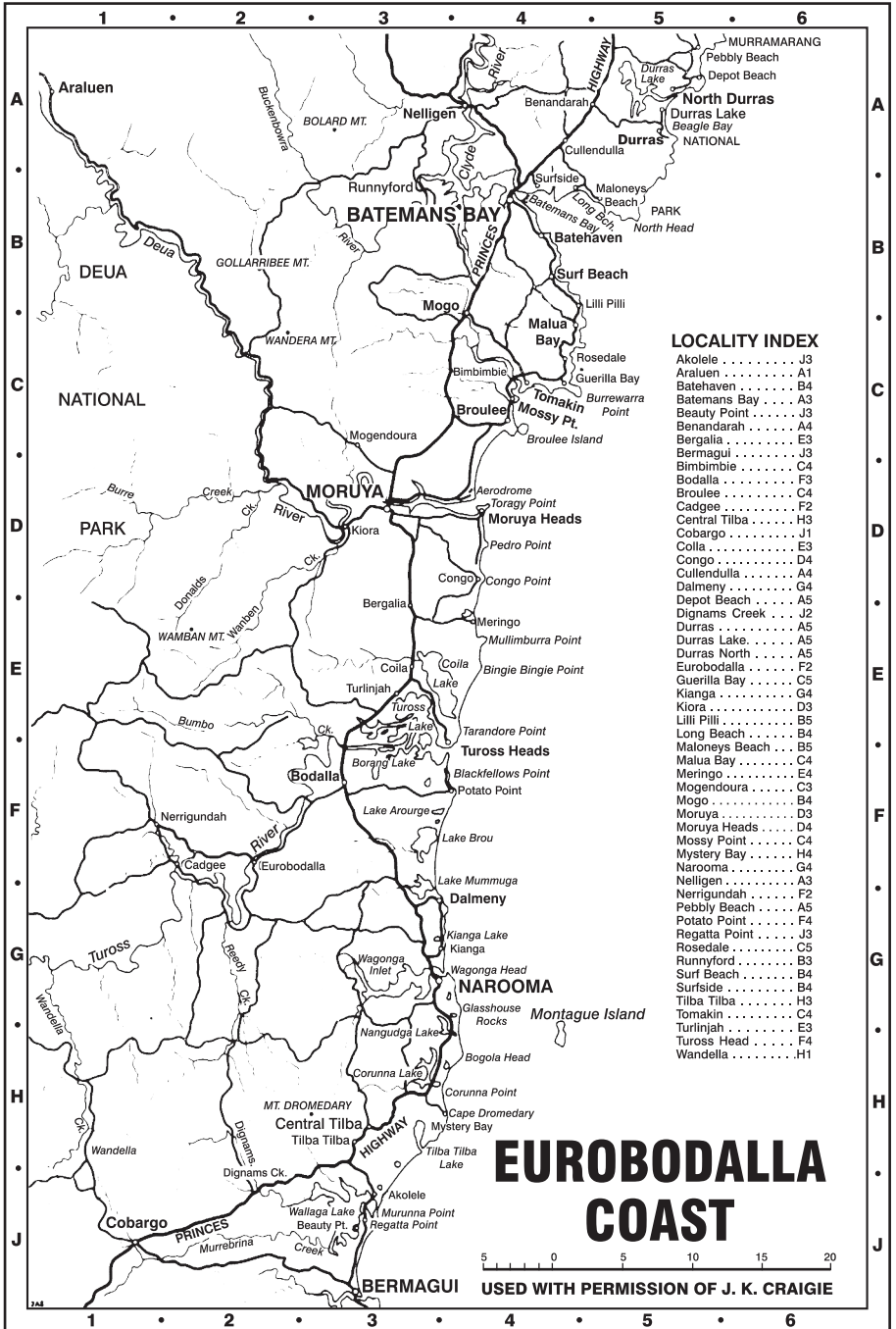


# **NATURE IN EUROBODALLA**

Number 30 (2015)



Compiled by D Kay and J Morgan



# EUROBODALLA COAST

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# EUROBODALLA NATURAL HISTORY SOCIETY

## ANNUAL RECORD FOR 2015

The objects of the Society are to:

- Foster and encourage the study, enjoyment and conservation of the natural environment of the area;
- Arrange indoor meetings and field excursions for these ends;
- Encourage and train members in the keeping of records of the wildlife of the area;
- Prepare reports of these records from time to time;
- Liaise with other societies, organizations and individuals with similar interests.

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Lucy Gibson

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Cover: Southern Emu-wren *Stipiturus malachurus* Photo: N Clark.

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## INTRODUCTION

It is a pleasure to introduce this thirtieth edition of *Nature in Eurobodalla*, a report on the status of the fauna of the Eurobodalla Shire compiled from records submitted to the Eurobodalla Natural History Society during 2015. A map of the Shire is reproduced inside the front cover and a list of place name abbreviations used in the text appears inside the back cover.

Whilst globally 2015 was the warmest year on record, New South Wales experienced only its seventh warmest year. There were some cold snaps which resulted in the coldest July for mean temperatures since 1997 and September was also the coldest statewide average minimum temperature since 1994. In contrast October was the warmest on record statewide, contributing to the second-warmest spring on record. Rainfall across the Shire showed a gradient from north to south, with the Bureau of Meteorology stations recording 1164mm at Batemans Bay (26% above the long term average), 1080mm at Moruya Heads (13% above average), 931mm at Narooma (2% above average) and 826 at Montagu Island (6% below average). April was the wettest month in the south of the shire, with 246mm recorded at Coolagolite, whilst further north August was the wettest, with 238mm at Bergalia. September was the driest month with just 10mm recorded at Comerang.

During the year members of the Society again participated in the NSW Parks and Wildlife shorebird monitoring programs and in BirdLife Australia surveys for Swift Parrot. These activities provided valuable additional records, particularly from the forested areas in the west of the Shire. No off-shore field trips were undertaken during the year and records of pelagic species are therefore primarily from land-based observations.

No species new to the Shire were recorded in 2015, though the sighting of a Forest Brown butterfly in November was only the second record of the species in the Shire. Some species not seen for some years also were recorded; a Buller's Albatross at Wasp Head in July was the first record since 2002, an Australasian Bittern at Pedro Swamp in December was the first since 2007, Pacific Baza at Malua Bay in January and October were the first since 2008 and a Kelp Gull at Batemans Bay in February

was the first since 2009. Notable also were the sightings of a Platypus in the Deua River and a Greater Glider at Surfside.

The absence of sightings can sometimes be as interesting as their presence. In 2015 there were no reports of either Striated Heron or Nankeen Night Heron, the first time since the Society began keeping records in 1985 that these species have been not been recorded. It will be interesting to see if they return to the Shire in 2016.

This report is restricted to those species recorded during the year; species not recorded are not listed. An annotated list of all bird species recorded in the Eurobodalla since the inception of the Society in 1986 is available on the Society's website ([www.enhs.org.au](http://www.enhs.org.au)) and is updated annually to reflect new sightings. As noted in previous years, the records reflect the distribution of observers and their interests as much as the distribution of the fauna. However, despite these shortcomings the records provide a valuable qualitative assessment of the status of species in the Shire, enabling trends over the years to be evaluated.

As in other recent years, the vertebrate taxonomic sequence basically follows Clayton *et al* (2006), with the listing of birds following the BirdLife Australia checklist based on Christides and Boles (2008). Taxonomic references used in compiling this report are listed below.

Once again, my thanks go out to all contributors who have made this report possible. In particular I thank my co-complier, Julie Morgan, for her work as the Society's Recorder during the year. Thanks also to Mike Crowley *et al* for the 57th Annual Assessment of Shearwater Breeding on Montagu Island. A complete list of those who have contributed their observations during the year appears on the final page.

David Kay  
Chair ENHS  
September 2016

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## BIRDS

### CASUARIIDAE Emu

#### **Emu** *Dromaius novaehollandiae*

Status: introduced in 1993, small wild population established.

Seven at TS estuary in Aug; singles at PP and Horse Is in Jan and at Brou L in Aug.

Breeding: adult with 6 chicks at TS in Aug. (PJP)

### PHASIANIDAE Quail, pheasants

#### **Stubble Quail** *Coturnix pectoralis*

Status: uncommon breeding resident.

Up to 20 at Com in Jan and Nov, 10 in other months; calls at Gulaga in Dec.

#### **Brown Quail** *Coturnix ypsilophora*

Status: uncommon breeding resident.

Up to 8 at Montagu Is in Mar, 1 in Oct; 2 at Com in Jan, 1 in Nov, calls in Feb and Apr; 2 at Deua R in Jun.

Breeding: juveniles on Montagu Is in Mar. (C Davey)

### ANATIDAE Swan, ducks

#### **Plumed Whistling-Duck** *Dendrocygna eytoni*

Status: vagrant.

Thirty one at Bodalla on 1 Mar, 1 at Com in May-Dec. (JC)

#### **Musk Duck** *Biziura lobata*

Status: uncommon breeding resident.

Five at Long Swamp in May, 1 in Jun; 4 at PS in Mar, 2 in Jan, 1 in Feb, Apr, Jun-Jul and Oct; 4 at Tarouga L in Oct.

Breeding: juveniles at PS in Jan and Mar. (JM)

#### **Freckled Duck** *Stictonetta naevosa*

Status: Vulnerable (NSW Schedule 2); vagrant.

Up to 25 at Com in Jul-Aug. (JC)

#### **Black Swan** *Cygnus atratus*

Status: common breeding resident and bird of passage.

Widely reported throughout the year; up to 120 at WL in May, 100 in Jan; 120 at MHS in Apr; 71 at Brou L in Dec; 78 at Bingie in May; 40 at MB in Feb and Jul; no more than 10 at other locations.

Breeding: nesting in Jan, cygnets in Jun-Oct.

**Australian Shelduck** *Tadorna tadornoides*

Status: vagrant.

Two or three at Com in May-Jun, Aug-Oct and Dec. (JC)

**Australian Wood Duck** *Chenonetta jubata*

Status: common breeding resident.

Widely reported throughout the year; 150 at Com in Jun-Aug, 50-130 in other months; 45 at MYA in Apr, 40 in Oct; 24 at Deua R in May, at Bergalia in Sep; no more than 20 at other locations.

Breeding: dependent young in Sep-Dec.

**Pink-eared Duck** *Malacorhynchus membranaceus*

Status: vagrant.

Up to 200 at Com in Jul-Aug, 100-160 in May-Jun and Sep-Nov, 15-30 in other months. (JC)

**Australasian Shoveler** *Anas rhynchotis*

Status: uncommon winter migrant, has bred.

Up to 15 at Com in Jul, 10-12 in May-Jun and Aug-Dec, 7 in Mar-Apr, 4 in Jan; 5 at Trunketabella in Oct. (JC/DB)

**Grey Teal** *Anas gracilis*

Status: breeding resident.

Reported throughout the year; 100 at PS in Dec; 50 at Com in May-Aug and Dec, 20-30 in other months; no more than 5 at other locations.

**Chestnut Teal** *Anas castanea*

Status: common breeding resident.

Widely reported throughout the year; 150 at Com in May-Jun, 40-100 in other months; 63 at Brou L in Dec; 30 at Bingie in Feb; 20 at MO in Jan, at MB in Apr, at PS in Dec; no more than 12 at other locations.

Breeding: dependent young at Com in Oct. (JC)

**Pacific Black Duck** *Anas superciliosa*

Status: common breeding resident.

Widely reported throughout the year; up to 400 at Com in Jun, 300 in May, 60-200 in other months; 8 at Long Swamp in May; 5 at MO in Jan, at PS in Mar, at Illawong NR in Oct; less than 5 at other locations.

Breeding: nesting at Com in Sep, dependent young in Feb and Oct-Dec. (JC)

**Hardhead** *Aythya australis*

Status: common resident and bird of passage.

Up to 80 at Com in Jul, 60 in Aug, 10-40 in other months; 70 at Trunketabella in Sep, 50 in Oct; 1 at Long Swamp in May.

**PODICIPEDIDAE** Grebes

**Australasian Grebe** *Tachybaptus novaehollandiae*

Status: common breeding resident.

Eight at MB in Jan-Feb and Apr; 7 at Com in Jul-Aug, 2-5 in other months; 5 at PS in Jul; 4 at NA in Feb, at Long Swamp in May; no more than 2 at other locations.

Breeding: dependent young at NA in Feb. (JMG)

**Hoary-headed Grebe** *Poliiocephalus poliocephalus*

Status: breeding resident.

Twelve at Com in Jan, 6-10 in other months; 12 at Deep Creek in May; 11 at MO in Jul; 3 at PS in May-Jun.

Breeding: dependent young at Com in Jan. (JC)

**COLUMBIDAE** Pigeons, doves

**Rock Dove** *Columba livia*

Status: common breeding resident.

Established colonies at BB, MYA and NA; reported maxima: 70 at NA in Feb; 15 at MYA in Mar; 10 at BB in Feb.

**White-headed Pigeon** *Columba leucomela*

Status: common breeding resident.

Widely recorded in all months; up to 30 at BP in Mar; 20 at TS in May, at MKS in Sep; 17 at DY in Feb; 12 at Pedro in Jul-Nov; 10 at MB in Jun-Jul; fewer than 10 at other locations.

Breeding: juvenile at MB in Feb. (MA)

**Spotted Dove** *Streptopelia chinensis*

Status: breeding resident.

Eight at MB in Jul, 2-4 most other months; 1-3 at MYA in most months; 2 at Mossy Pt in Mar; 1 at MO in Jun, at Kianga in Aug-Sep, at Gulaga in Sep; call at WL in Sep.

**Brown Cuckoo-Dove** *Macropygia amboinensis*

Status: uncommon breeding resident and bird of passage.

Twenty at MKS in Aug, 17 in Jul, 14 in Sep; 15 at NA in Feb and Apr; 8 at Pedro in Jul-Oct; 6 at Lilli Pilli in Jun; no more than 3 elsewhere.

**Common Bronzewing** *Phaps chalcoptera*

Status: common breeding resident.

Widely recorded in all months; up to 12 at MKS in Feb-Mar, 10 in Jul; 8 at Pedro in Sep and Nov; 4-6 at Com each month; 6 at Belowra in Aug, at Bergalia in Aug-Oct; 5 at Bodalla in Jan and Apr; no more than 4 at other locations.

Breeding: nesting at MKS in Mar and at Com in Sep. (SMG/JC)

**Brush Bronzewing** *Phaps elegans*

Status: uncommon breeding resident.

Single birds recorded at Tilba on 22 Feb and NA on 25 May; call at Coila Ck on 5 Jan. (MA/NC)

**Crested Pigeon** *Ocyphaps lophotes*

Status: common breeding resident.

Widely recorded in all months; 20 at MB in May, 12 in Jul; 19 at Com in Feb, 8-12 most other months; 6 at MYA in Mar, at Broulee in Sep; 5 at TS in Jan and Aug-Oct, at NA in Feb, at Bergalia in Mar; no more than 4 at other locations.

Breeding: nesting at Com in Sep, dependent young in Oct-Nov. (JC)

**Peaceful Dove** *Geopelia striata*

Status: breeding resident but becoming less common.

Five at Bingie in Aug, 1 in May; 1 at SB in Mar, at Surfside and Com in Aug; calls at Com in Jan and Dec.

**Bar-shouldered Dove** *Geopelia humeralis*

Status: uncommon resident.

Four at Montagu Is in Mar; 2 at BP in Apr, 1 in Jan and Dec. (C Davey/JW)

**Wonga Pigeon** *Leucosarcia picata*

Status: common breeding resident.

Widely recorded in all months, 1-2 or calls at most locations; 12 at MB in Jul; 10 at NA in Feb; 6 at MKS in Mar and Dec, at Deua R in Jun; no more than 4 at other locations.

**Topknot Pigeon** *Lopholaimus antarcticus*

Status: bird of passage.

Fifty at Tilba in May; 18 at CO in Jul; 10 at MYA SF in May, at Trunketabella in Jul; 3 at NA in Sep; 1 at Turlinjah in Mar, at Cullendulla in Oct.

**PODARGIDAE** Frogmouths

**Tawny Frogmouth** *Podargus strigoides*

Status: breeding resident.

Two at TS in most months, at Pedro in Mar, at Deua R in Apr-May; 1 at Com in Apr-Aug, at NA in Jun.

Breeding: juvenile at TS in Dec. (JH)

**EUROSTOPODIDAE** Nightjars

**White-throated Nightjar** *Eurostopodus mystacalis*

Status: summer breeding migrant.

Four at PS in Feb, calls in Jan, Mar, Sep and Dec; 2 at BP in Dec; calls at Malua Bay in Jan, at MKS in Dec.

Breeding: juvenile at PS in Feb. (JM)

**AEGOTHELIDAE** Owlet-nightjars

**Australian Owlet-nightjar** *Aegotheles cristatus*

Status: breeding resident.

Two at Com in Mar-Apr, 1 most other months; call at PS in Feb.

(JC/JM)

**APODIDAE** Swifts

**White-throated Needletail** *Hirundapus caudacutus*

Status: summer migrant.

Widely reported Jan-Mar and Nov-Dec; 150 at Com in Jan, 120 in Dec; 60 at PS in Jan; 50 at Malua Bay and MYA in Jan; 46 at Pedro in Mar; 24 at Bergalia in Jan; no more than 20 at other locations; last record at Montagu Is on 30 Mar, first return at Com on 17 Oct.

**Fork-tailed Swift** *Apus pacificus*

Status: rare summer migrant.

One at MKS on 6 Dec and at PS on 14 Dec. (SMG/JM)

**DIOMEDEIDAE** Albatrosses

**Albatross sp**

40 off MHS and 5 off CO on 26 Jul; 2 off Bogola Head in Jun; 1 off MB in Jun and Sep and off MHS in Aug.

**Black-browed Albatross** *Thalassarche melanophris*

Status: Vulnerable (NSW Schedule 2); common winter pelagic.

Up to 40 off Wasp Head on 18 Jul; 7 off MHS on 26 Jul; 1 off Montagu Is on 24 Mar.

**Shy Albatross** *Thalassarche cauta*

Status: Vulnerable (NSW Schedule 2); common winter pelagic.

Up to 120 off Wasp Head on 18 Jul; 5 off Montagu Is in Mar, off MO in Jul; 3 off Haycocks Beach in Mar; 1 off MHS in Jul.

**Yellow-nosed Albatross** *Thalassarche chlororhynchos*

Status: common winter pelagic.

One off Montagu Is on 24 Mar. (C Davey)

**Buller's Albatross** *Thalassarche bulleri*

Status: occasionally recorded off the coast.

One off Wasp Head on 18 Jul. (DB)

**PROCELLARIIDAE** Petrels, shearwaters

**Southern Giant Petrel** *Macronectes giganteus*

Status: Endangered (NSW Schedule 1); winter pelagic.

Two juveniles off Wasp Head on 18 Jul; 1 adult off Mullimburra Pt on 2 Jul. (DB/NM)

**Prion sp.**

Five off Wasp Head on 18 Jul. (DB)

**Wedge-tailed Shearwater** *Ardenna pacifica*

Status: common breeding resident and summer migrant.

Small numbers of adults at Montagu Is 23-30 Mar; 1 off MB on 5 Apr. (MA/C Davey)

Breeding: chicks at Montagu Is 23-30 Mar. (C Davey)

**Short-tailed Shearwater** *Ardenna tenuirostris*

Status: common summer breeding migrant.

Up to 100 off MO on 25 Jan; 25 off Montagu Is in Oct, small numbers in Mar; 20 off MB in Feb.

Breeding: chicks at Montagu Is 23-30 Mar. (C Davey)

**Fluttering Shearwater** *Puffinus gavia*

Status: common pelagic.

Up to 2000 off Wasp Head on 18 Jul; 20 off BP in Feb; 1 off MO in Jan. (DB/NC/NM)

**Gould's Petrel** *Pterodroma leucoptera*

Status: Vulnerable (NSW Schedule 2); uncommon pelagic, breeding at Montagu Is.

One chick at Montagu Is in Mar. (C Davey)

**SPHENISCIDAE** Penguins

**Little Penguin** *Eudyptula minor*

Status: common breeding resident.

One at Montagu Is in Mar and Oct. (C Davey/MA)

**SULIDAE** Gannets, boobies.

**Australasian Gannet** *Morus serrator*

Status: common winter migrant and bird of passage.

Ten off PP in Apr, off MHS in Jul; 10 off MB in Jul, 8 in Mar; 6 off Bogola Head in Jun, off MO in Jul, off Montagu Is in Oct; no more than 3 at other locations.

**ANHINGIDAE** Darter

**Australasian Darter** *Anhinga novaehollandiae*

Status: breeding resident.

Six at NA in Sep; singles at Com in Jan-Feb, Apr, Jun and Oct, at BI in Apr-May, at WL in Jun and at TS in Nov.

**PHALACROCORACIDAE** Cormorants

**Little Pied Cormorant** *Microcarbo melanoleucos*

Status: common breeding resident.

Reported in all months; 22 at WL in Sep, 20 in Jun; 20 at NA in Apr, 12 in Feb; 15 at Coila L in Feb; 12 at MB in Feb, 10 in Sep; 9 at Brou L in Dec; 8 at Broulee in Sep; no more than 5 at other locations.

**Great Cormorant** *Phalacrocorax carbo*

Status: common resident.

Widely reported in all months; 120 at MB in Mar, 30 in Apr and Dec; 50 at Montagu Is in Oct, 25 in Mar; 33 at WL in Sep; 22 at BP in Feb, 20 in Mar; 20 overflying Bergalia in Aug; fewer than 20 at other locations.

**Little Black Cormorant** *Phalacrocorax sulcirostris*

Status: common resident.

Reported in all months; 150 at NA in Sep; 100 at TS in Dec; 16 at Maloney's Beach in Mar, at WL in Sep; 12 at MB in May and Sep; fewer than 10 at other locations.

**Pied Cormorant** *Phalacrocorax varius*

Status: uncommon resident.

Eight at TS in Nov; 4 at WL in Jun, at Broulee in Aug, at MYA in Sep; 2 at MO in Jan, at Bingie in May, at MB in Jul, at NA in Oct; singles at MB in Feb-Mar, at Montagu Is in Mar, at Pedro Pt in May, at NA in Jun



and Dec.

**PELECANIDAE** Pelican

**Australian Pelican** *Pelecanus conspicillatus*

Status: common resident.

Widely reported in all months; 48 at Brou L in Dec; 30 at NA in Jun; 25 at TS in Jan-Feb, Apr and Aug-Sep, at Coila Ck in Jan; 20 at WL in May; no more than 15 at other locations.

**ARDEIDAE** Bitterns, herons, egrets

**Australasian Bittern** *Botaurus poiciloptilus*

Status: Endangered (NSW Schedule 1); rare resident.

One recorded at PS on 26 Dec, first record since 2007. (M Griffith)

**White-necked Heron** *Ardea pacifica*

Status: breeding resident.

Nine at Com in Jul-Aug, 3-7 in other months; 5 at Trunketabella in Dec; 4 at Bodalla and MYA in Sep; 1-2 at several other locations.

**Eastern Great Egret** *Ardea modesta*

Status: common resident.

Fifteen at Nangudga L in Feb; 8 at Trunketabella in Nov, 5 in Dec; 6 at Brou L in Dec; 5 at NA in Apr; 4 at MB in Feb, Sep and Dec, at MYA in May; no more than 3 at other locations.

**Intermediate Egret** *Ardea intermedia*

Status: uncommon migrant.

Two at WL on 6 Sep; singles at MB in Feb, at Com in Mar-Dec and at NA in May.

**Cattle Egret** *Ardea ibis*

Status: common autumn-spring migrant.

Recorded Apr-Nov; up to 60 at Com in May, 40 in Nov; 50 at MYA in Sep, 40 in Jul; 17 at Cullendulla in Nov; 12 at Bergalia in May; fewer than 10 at other locations.

**White-faced Heron** *Egretta novaehollandiae*

Status: common breeding resident.

Widely reported in all months; 20 at Com in Jan, May-Jul and Oct-Nov; 15 at Nangudga L in Jun, 10 in Feb; 8 at WL in May; 6 at MB in Feb, at MYA in Mar, May, Jul and Nov; no more than 5 at other locations.

Breeding: dependent young in nest at Com in Jan. (JC)

**Little Egret** *Egretta garzetta*

Status: common resident.

Twenty at Nangudga L in Jan, 15 in Feb; 8 at MB in Feb and Apr; 4 at WL in May, at MYA in Sep; no more than 3 at other locations.

Breeding: nests with chicks at NA in Feb. (MA/AC)

**Eastern Reef Egret** *Egretta sacra*

Status: resident.

Two at MB in Feb, Apr, Jun-Jul, Sep and Nov, 1 in most other months; singles at MO in Jan, Jun, Nov-Dec, at Bingie in Mar-Apr and Dec, at Montagu Is in Mar, at BP and BI in Apr and at Broulee in Aug.

**THRESKIORNITHIDAE** Ibises, spoonbills

**Australian White Ibis** *Threskiornis molucca*

Status: common resident and winter-spring migrant.

Thirty five at MYA in Apr, 30 in Jan-Feb, Jun and Sep; 25 at WL in May; 15 at MB in Sep; 13 at Com in Nov; 10 at NA in Jun; no more than 5 at other locations.

**Straw-necked Ibis** *Threskiornis spinicollis*

Status: winter-spring migrant and bird of passage.

Up to 200 at Com in May-Jul, 120 in Nov; 70 at Bumbo in Mar; 40 at MYA in Apr; 14 overflying Bergalia in Sep; 10 at MB in Apr; fewer than 10 at other locations.

**Royal Spoonbill** *Platalea regia*

Status: common resident.

Up to 51 at Com in Dec; 40 at WL in Feb; 39 at NA in May; 30 at Trunketabella in Jan; 12 at Nangudga L in Feb; no more than 10 at other locations.

**Yellow-billed Spoonbill** *Platalea flavipes*

Status: migrant.

Two at Com on 27 Feb. (JC)

**ACCIPITRIDAE** Osprey, kites, eagles, harriers, goshawks

**Eastern Osprey** *Pandion cristatus*

Status: Vulnerable (NSW Schedule 2); uncommon migrant.

One at NA in Feb and May, at WL in May, at Broulee in Jun and at Bingie in Sep. (MA/AC/HR/AM)

**Black-shouldered Kite** *Elanus axillaris*

Status: breeding resident.

Recorded in all months; 2 at Bergalia in Mar and Aug-Sep, 1 in other months; 2 at Com in Jan, 1 most other months; singles at MB in most months, at NA in Feb, at MO in Jun, at Barlings in Dec.

**Square-tailed Kite** *Lophoictinia isura*

Status: Vulnerable (NSW Schedule 2); uncommon spring-summer breeding migrant.

Two at MB in Jan, at PS in Aug-Sep and at Pedro in Sep; singles at BP and MO in Jan, at NA in Jan and Sep, at Fairhaven in Mar, at PS in Mar, Jul and Dec, at MKS in Aug and Dec and at Coolagolite in Nov.

**Pacific Baza** *Aviceda subcristata*

Status: vagrant.

Two at Malua Bay on 7-8 Jan, 1 in Oct. (MW)

**White-bellied Sea-Eagle** *Haliaeetus leucogaster*

Status: common breeding resident.

Widely reported throughout the year; 6 at BP and PP in Apr; 5 at MB in Apr, Bogola Head in Jun; 4 at Montagu Is in Mar, at CO in Jul, at Com in Sep; no more than 3 at other locations.

Breeding: juveniles and immatures reported year round.

**Whistling Kite** *Haliastur sphenurus*

Status: breeding resident.

Widely reported in all months; 4 at MO in Jan, 3 in Jun; 3 at MB in May, at Bingie in Jul, at Com in Nov-Dec; no more than 2 at other locations.

Breeding: nesting at Com in Aug-Sep, dependent young at MO in Jan and at Com in Nov. (JC/NM)

**Brown Goshawk** *Accipiter fasciatus*

Status: breeding resident.

Reported all months; 2 at Bergalia in Jan, at Gulaga in Sep; 2 at MKS in Aug-Sep, 1 in Feb; 2 at Com in Sep-Dec, 1 in other months; 1 at MO in Jan-Feb, May, Jul, Sep and Nov, at Barlings in Apr, at Bogola Head in Jun and at Bingie in Aug.

Breeding: nesting at Com in Sep-Dec. (JC)

**Collared Sparrowhawk** *Accipiter cirrocephalus*

Status: breeding resident.

Two at PS in Oct-Nov, 1 in Apr-May; singles at MO in Jan, at Deua R in May-Jun, at MB and MKS in Sep and at Malua Bay in Nov.

**Grey Goshawk** *Accipiter novaehollandiae*

Status: breeding resident, both grey and white morph occurring.

Two at Com in Mar-Apr, 1 in Jan-Feb, May-Jun and Dec; 2 at PS in Nov-Dec, 1 in Jan and May-Oct; singles at 9 other locations during the year.

**Spotted Harrier** *Circus assimilis*

Status: Vulnerable (NSW Schedule 2); vagrant.

Single birds at Com in Feb, Apr and Jun, at TS in Apr and at Turlinjah in Nov. (JC/MA/AC/AM/JM)

**Swamp Harrier** *Circus approximans*

Status: breeding resident.

Two at Montagu Is in Mar; singles at Malua Bay in Jan, at Com in Jan-Mar and Nov-Dec, at PS in Jan and Oct, at MYA in Jan, Aug and Oct, at Barlings in Apr and Dec, at Long Swamp in May, at MB in Sep, at Illawong NR in Oct and at Tilba in Nov.

**Wedge-tailed Eagle** *Aquila audax*

Status: common breeding resident.

Widely reported across the Shire in all months; 3 at Tilba in Jan, at Com in Jan-Feb, at MKS in Feb, at MB in Mar, at Bingie in Jun, at Coolagolite in Aug, at Belowra in Oct; no more than 2 elsewhere and most records of single birds.

Breeding: juveniles reported at Tilba and Com in Jan. (JC/JM)

**Little Eagle** *Hieraaetus morphnoides*

Status: Vulnerable (NSW Schedule 2); uncommon breeding resident.

Two at Com in Sep, 1 in Mar. (JC)

**FALCONIDAE** Kestrel, hobby, falcons

**Nankeen Kestrel** *Falco cenchroides*

Status: common breeding resident.

Reported throughout the year; 3 at Com in Jan, 1-2 in other months; 1-2 at Bergalia each month, singles at 9 other locations.

Breeding: nesting at Com in Aug-Oct. (JC)

**Brown Falcon** *Falco berigora*

Status: breeding resident.

Recorded in each month except Nov; 3 at Com in May, 2 in other months; 1 at MO in Jan, at MB in Mar and Jun-Jul, at Eurobodalla Rd in Jul, at MHS and Belowra in Aug.

**Australian Hobby** *Falco longipennis*

Status: breeding resident.

Two at MO in Jan, 1 in Jul; one at Com in Feb-Mar, at PS in Feb.  
(NM/JC/JM)

**Peregrine Falcon** *Falco peregrinus*

Status: uncommon breeding resident.

Recorded in all months; 2 at Com in Jun-Jul, 1 in other months; 2 at Montagu Is in Mar, at Wasp Head in Jul; singles at BP in Jan-Apr and Dec, at MO in Jan and Jul, at Pedro in Feb-Apr, Sep and Dec and at Pedro Pt in Nov.

**RALLIDAE** Rails, crakes, swamphen, moorhen, coot

**Purple Swamphen** *Porphyrio porphyrio*

Status: common breeding resident.

Widely recorded throughout the year; 20 at PS in Jan, 10 in Feb-Mar and Jul; 15 at NA in Jun; 9 at ERBG in May; 8 at Eurobodalla Rd in Jul; 7 at MB in May-Jul, at Com in Nov-Dec; 6 at Bergalia in Apr and Aug; no more than 5 at other locations.

Breeding: dependent young at PS and MO in Jan, at Com in Dec, juvenile at MB in Feb.

**Buff-banded Rail** *Gallirallus philippensis*

Status: rare breeding resident.

Seven at TS in Dec, 3-5 in other months; several at Montagu Is in Mar; 3 at Com in Jan, 1 in Nov-Dec.

Breeding: dependent young at TS in Sep and Dec, juveniles at Com in Jan, at TS in Feb-Apr and Nov. (JH/JC)

**Dusky Moorhen** *Gallinula tenebrosa*

Status: uncommon breeding resident.

Recorded in all months; 4 at Com in Mar-Dec, 2 in Jan-Feb; 4 at Long Swamp in May; 3 at NA in Apr; 1 at ERBG in May and at PS in Jun.

**Eurasian Coot** *Fulica atra*

Status: common breeding resident.

Recorded in all months; 200 at Com in Sep-Oct, 120 in Jul-Aug, 100 in Nov-Dec; 200 at PP in Apr; 30 at Long Swamp in May, at Eurobodalla Rd in Jul; 25 at Trunketabella in Dec; 3 at NA in Apr; 2 at PS in Feb.

## **HAEMATOPODIDAE** Oystercatchers

### **Australian Pied Oystercatcher** *Haematopus longirostris*

Status: Endangered (NSW Schedule 1); breeding resident.

Reported in all months; 35 at WL in Mar, 29 in May; 20 at TS in Dec, 15 in Oct; 16 at NA in Feb; 8 at Brou L in Dec; no more than 6 at other locations.

Breeding: nesting in Oct and Dec, dependent young in Feb, juveniles in Jan-Mar.

### **Sooty Oystercatcher** *Haematopus fuliginosus*

Status: Vulnerable (NSW Schedule 2); breeding resident.

Reported in all months; 16 at Cullendulla in Mar; 12 at Montagu Is in Mar; 10 at Bingie in Sep; 8 at Wasp Head in Jul; 6 at Pedro Pt in May, at MB in May, Jul, Sep and Nov-Dec; no more than 5 at other locations.

Breeding: juvenile at Cullendulla in Mar. (DB)

## **RECURVIROSTRIDAE** Stilts

### **Black-winged Stilt** *Himantopus himantopus*

Status: rare autumn-winter migrant and bird of passage.

Up to 28 at Com in Dec, 6-9 in Sep-Nov, 2 in Mar-May; 2 at Cullendulla in Aug and at MO in Nov.

## **CHARADRIIDAE** Lapwings, plovers, dotterels

### **Pacific Golden Plover** *Pluvialis fulva*

Status: uncommon bird of passage.

Up to 6 at MB in Feb-Mar and Dec, 4 in Apr, 2 in Nov, 1 in Jan. (MA)

### **Grey Plover** *Pluvialis squatarola*

Status: uncommon bird of passage.

Two at TS on 28 Dec. (PJP)

### **Red-capped Plover** *Charadrius ruficapillus*

Status: common breeding resident.

Thirty three at WL in Mar; 15 at TS in Nov; 11 at MO in Jan; 8 at MB in May and Jul, at NA in Jun, at Brou L in Dec; no more than 4 at other locations.

Breeding: nesting at TS in Nov, dependent young at MO in Jan, at Coila L in Oct. (FM/DB/NM)

### **Double-banded Plover** *Charadrius bicinctus*

Status: autumn-winter migrant.

Twenty two at WL in May; 8 in Mar; 6 at TS in Feb; 4 at Bogola Head

in Jun; 2 at NA in Jun; 1 at Cullendulla in Mar.

**Greater Sand Plover** *Charadrius leschenaultia*

Status: Vulnerable (NSW Schedule 2); rare bird of passage.

Four at TS on 25 Nov, 1 on 29 Nov. (PJP)

**Black-fronted Dotterel** *Elseyaornis melanops*

Status: uncommon breeding resident.

Six at Com in Feb-Mar and Dec, 2-4 in other months; 3 at MO in Jan, 1 in Feb and Jun; 3 at Runnyford Rd in Jun; 2 at PP in Apr and at Bingie in Jun and Aug.

Breeding: dependent young at Com in Feb and Dec. (JC)

**Hooded Plover** *Thinornis rubricollis*

Status: Critically Endangered (NSW Schedule 1A); uncommon breeding resident.

Four at WL in May, 2 in Sep; 3 at MB in Dec; 2 at NA in May; 1 at Bengello Beach in Jun.

Breeding: nesting at MB in Dec. (MA/AC)

**Red-kneed Dotterel** *Erythrogonys cinctus*

Status: vagrant.

Five at Com in Oct-Dec. (JC)

**Masked Lapwing** *Vanellus miles*

Status: common breeding resident.

Widely reported in all months, usually pairs or small parties up to 6; 60 at Com in Jun, 50 in May and Aug, 10-40 in other months; 12 at TS in Mar, 10 in Feb and Oct-Nov; 12 at MB in Nov; 8 at WL in May, at Coila L in Oct; no more than 6 at other locations.

Breeding: dependent young in Jul-Sep and Dec. (JC/JH/MA)

**SCOLOPACIDAE** Snipe, sandpipers and allies

**Latham's Snipe** *Gallinago hardwickii*

Status: uncommon summer migrant.

Up to 3 at Com in Dec, 1 in Jan, Apr and Nov; 1 at Coolagolite in Dec. (JC/DO)

**Bar-tailed Godwit** *Limosa lapponica*

Status: common summer migrant, some overwinter.

Up to 150 at NA in Feb and Dec, 75 in Apr; 43 at TS in Nov; 15 at WL in May, 14 in Sep; 12 at Brou L in Dec; not recorded elsewhere.

**Whimbrel** *Numenius phaeopus*

Status: summer migrant.

One at Nangudga L in Jan and at NA in Oct. (MA/NC)

**Eastern Curlew** *Numenius madagascariensis*

Status: common summer migrant, some overwinter.

Up to 32 at MHS in Nov, 15 in Jan and Mar; 19 at TS in Nov, 18 in Dec; 5 at WL in Mar; 4 at Cullendulla in Mar; no more than 3 at other locations.

**Grey-tailed Tattler** *Tringa brevipes*

Status: uncommon summer migrant and bird of passage.

Three at Brou L in Dec; singles at Coila L in Jan, at MB in Feb-Mar, at NA in May and at TS in Dec.

**Common Greenshank** *Tringa nebularia*

Status: summer migrant and bird of passage.

One at TS on 18 Dec. (PJP)

**Great Knot** *Calidris tenuirostris*

Status: Vulnerable (NSW Schedule 2); uncommon summer migrant and bird of passage.

Two at Brou L on 13 Dec. (PJP)

**Red Knot** *Calidris canutus*

Status: summer migrant and bird of passage.

Thirteen at TS on 17 Nov; 3 at Brou L on 13 Dec. (PJP)

**Red-necked Stint** *Calidris ruficollis*

Status: summer migrant and bird of passage.

Thirty at TS on 29 Nov; 3 at Brou L on 13 Dec. (FM/PJP)

**Sharp-tailed Sandpiper** *Calidris acuminata*

Status: summer migrant and bird of passage.

Up to 30 at Com in Dec. (JC)

**Curlew Sandpiper** *Calidris ferruginea*

Status: Endangered (NSW Schedule 1) summer migrant and bird of passage.

Two at TS on 2 Feb. (NC)



**STERCORARIIDAE** Skuas, jaegers

**Brown Skua** *Stercorarius antarcticus*.

Status: winter pelagic, occasionally coming inshore.

One at sea off Montagu Is on 28 Jun. (JMG)

**LARIDAE** Gulls, terns

**Little Tern** *Sternula albifrons*

Status: Endangered (NSW Schedule 1); summer breeding migrant.

Nineteen at TS on 19 Nov, 14 in Jan, 1-3 in Feb-Mar, Oct and Dec.

Breeding: nests with eggs in Jan-Feb and Dec, fledglings in Feb-Mar.

**Gull-billed Tern** *Gelochelidon nilotica*

Status: vagrant.

Four at MHS on 31 May. (JM)

**Caspian Tern** *Hydroprogne caspia*

Status: resident and bird of passage.

Six at Mossy Pt in Mar; 4 at TS in Feb, at Montagu Is in Mar, at WL in May; 1-2 at other locations.

**White-fronted Tern** *Sterna striata*

Status: common winter migrant.

Three hundred at Wasp Head on 18 Jul; 35 at TS in Aug; 6 at MB in Apr, at BB in Jun; singles at Bogola Head in Jun, at MHS in Jul, at Bingie in Jul and Aug.

**Crested Tern** *Thalasseus bergii*

Status: common breeding resident.

Reported in all months; 400 at TS in Aug, 300 in Sep; 300 at MB in Jul; 80 at NA in Feb; 60 at Montagu Is in Mar; 50 at WL in Mar, at PP in Apr; fewer than 30 at other locations.

Breeding: dependent young at Montagu Is in Oct. (MA)

**Kelp Gull** *Larus dominicanus*

Status: vagrant.

One at BB on 4 Feb. (NC)

**Silver Gull** *Chroicocephalus novaehollandiae*

Status: common breeding resident.

Widely reported in all months; 200 at CO on 26 Jul; 80 at Montagu Is in Mar, at Brou L in Dec; 70 at MO in Jan; 60 at MB in Feb; 40 at MYA in Feb, at MHS in Jul; less than 40 at other locations.

Breeding: dependent young at Montagu Is in Oct. (MA)

## **CACATUIDAE** Cockatoos

### **Glossy Black-Cockatoo** *Calyptorhynchus lathami*

Status: Vulnerable (NSW Schedule 2); breeding resident.

Recorded throughout the year, normally in pairs or family groups of 3; 7 at MO in Jul; 6 at MKS in Mar, at Deua R in Apr-Jun, at Bodalla in Apr and Sep; 5 at Bergalia in Mar, at Turlinjah in Jun, at Pedro in Nov; 4 at MB in Mar and Dec; 1-3 or calls at other locations.

Breeding: dependent young at PS in Sep-Nov. (JM)

### **Yellow-tailed Black-Cockatoo** *Calyptorhynchus funereus*

Status: common breeding resident.

Widely recorded in all months; up to 40 at MYA in Feb; 37 at BP in Dec; 34 at WL in May; 30 at PP in Jan, at Deua R in May-Jun, at MB in Jul; 18 at Bergalia in Apr; 12 at Pedro in Feb, at NA in Apr, at Bodalla SF in May and at Bodalla in Dec; 11 at MKS and TS in Apr; fewer than 10 at other locations.

### **Gang-gang Cockatoo** *Callocephalon fimbriatum*

Status: Vulnerable (NSW Schedule 2); breeding resident.

Recorded in all months; 12 at Pedro in Sep; 11 at Coolagolite in Aug, 6 in Jan; 8 at MB in Oct, 6 in Dec; 6 at Bodalla SF in May; 1-4 or calls at other locations.

Breeding: nesting at Broulee in Oct. (GLM)

### **Galah** *Eolophus roseicapillus*

Status: common breeding resident.

Widely recorded in all months in pairs, small groups and large flocks; 60 at Com in May, 20-40 in other months; 40 at MB in May and Dec; 25 at MYA in Apr; 20 at MO in Jun; fewer than 20 at other locations.

Breeding: nesting at Com in Sep-Oct, dependent young at Bergalia in Jan. (JC/DHK)

### **Long-billed Corella** *Cacatua tenuirostris*

Status: vagrant.

One at Broulee on 19 Jan with metal band on leg. (N Greenway)

### **Little Corella** *Cacatua sanguinea*

Status: common breeding resident.

Widely recorded in all months in pairs, small groups and large flocks; 300 at MYA in May, 200 in Feb, Jun and Nov; 50 at Com in Jun; 40 at Bergalia in Dec; 30 at TS in Aug; no more than 30 at other locations.

**Sulphur-crested Cockatoo** *Cacatua galerita*

Status: common breeding resident.

Widely recorded in all months; 60 at Com in Jun, 40 in May and Jul; 50 at Malua Bay in Jul, 20 in Feb-Mar; 43 at Kianga in Oct, 26 in Jun; 30 at Bergalia in Apr; 20 at MYA in Mar, at TS in Aug; no more than 10 at other locations.

Breeding: dependent young at Com in Feb. (JC)

**PSITTACIDAE** Lorikeets, parrots

**Rainbow Lorikeet** *Trichoglossus haematodus*

Status: common breeding resident.

Widely recorded in all months; up to 500 at NA in May, 400 in Aug; 350 at Tilba in May, 320 in Aug; 340 at Bodalla SF in Aug; 120 at Broulee in Oct; 100 at PS in Mar-Apr and Jun; 70 at Box Cutting in May; 67 at Wandera SF in Aug; 60 at MB in Feb, at Com in Jun and Aug, at MYA in Aug-Sep; fewer than 50 at other locations.

Breeding: dependent young at PS in Jan and Apr, at Com in Nov. (JC/JM)

**Musk Lorikeet** *Glossopsitta concinna*

Status: common breeding resident.

Recorded in all months except Jul; 650 at Bodalla SF in May, 300 in Aug; 500 at Tilba in May, 450 in Aug; 500 at NA in Aug, 300 in May; 400 at Box Cutting in May; 140 at Boyne SF in Sep; 100 at Benandarah SF in May; fewer than 60 at other locations.

**Little Lorikeet** *Glossopsitta pusilla*

Status: Vulnerable (NSW Schedule 2); resident, has bred.

Recorded in all months, smaller flocks than recent years; 80 at Boyne SF in Sep, 50 in May; 30 at Benandarah SF in May; 25 at MB in Sep; 24 at Tilba in May; 20 at Bodalla SF in May, at Pedro in Oct-Nov; 15 at Bodalla in Jun; 14 at NA in May; 12 at PS in Feb; fewer than 10 at other locations.

**Australian King Parrot** *Alisterus scapularis*

Status: common breeding resident.

Singles, pairs and small groups widely recorded in all months; up to 130 at Com in Mar-Apr, 80 in May; 30 at MKS in Mar, 25 in Jul; 30 at MB in Apr and Jul; 20 at Pedro in Mar, at Deua R in Apr; no more than 10 at other locations.

Breeding: dependent young at Com in Feb. (JC)

**Crimson Rosella** *Platycercus elegans*

Status: common breeding resident.

Widely reported in all months, usually in groups up to 6; up to 35 at MB in Jul, 15 in Feb, Jun and Nov; 21 at Belowra in Aug; 20 at Tilba in May, at Deua R in Jun, at Illawong NR in Oct; 15 at Coolagolite in May; 14 at Com in Aug; no more than 10 at other locations.

Breeding: juveniles at PS in Jan and at Com in Jun. (JM/JC)

**Eastern Rosella** *Platycercus eximius*

Status: breeding resident.

Recorded in all months; 20 at Com in Feb-Mar and May-Jun, 10-15 in other months; 10 at MB in Jul; 6 at Bergalia in Jun-Sep and Nov-Dec; 6 at Gulaga in Sep; no more than 2 at other locations.

Breeding: nesting at Com in Oct-Nov, dependent young in Dec. (JC)

**Swift Parrot** *Lathamus discolor*

Status: Endangered (NSW Schedule 1); uncommon passage migrant.

Far fewer than previous year; 100 at Boyne SF on 8-10 Sep; 10 at NA in May; 1-3 or calls at Benandarah SF and Bodalla SF in May and at Wandera SF in Aug.

**CUCULACIDAE** Cuckoos

**Eastern Koel** *Eudynamis orientalis*

Status: summer breeding migrant.

Widely reported Jan-Feb and Oct-Dec; 4 at Kianga in Jan, at Pedro in Dec; 3 at TS in Oct, at BP in Jan and Dec; no more than 2 elsewhere; last record from BP on 15 Feb, first return at Broulee on 10 Oct.

Breeding: young being fed by Red Wattlebird at BP in Jan, by Little Wattlebird at MHS in Jan and by Noisy Friarbird at MB in Feb.

(JW/JM/MA)

**Channel-billed Cuckoo** *Scythrops novaehollandiae*

Status: summer breeding migrant.

Eight at Tilba in Dec; 6 at Malua Bay in Dec; 4 at Gulaga in Dec; 3 at Pedro in Nov, at Com in Dec; 1-2 or calls at other locations; last record at BP in Mar, first return at NA on 12 Sep.

Breeding: young being fed by Australian Magpie at BP in Mar. (JW)

**Horsfield's Bronze-Cuckoo** *Chalcites basalis*

Status: summer breeding migrant.

One at Belowra on 25 Oct; calls at PS in Apr, Oct-Nov. (FM/JM)

**Shining Bronze-Cuckoo** *Chalcites lucidus*

Status: summer breeding migrant and bird of passage.

Three at Gulaga on 27 Sep; singles at NA in Jan, at PP in Apr, at Belowra and Mullimburra Pt in Oct; calls at Illawong NR and PS in Oct, at Com in Nov-Dec; last record at PP on 11 Apr, first return at Gulaga on 27 Sep.

**Pallid Cuckoo** *Cacomantis pallidus*

Status: summer breeding migrant.

Two at Belowra on 25 Oct. (FM)

**Fan-tailed Cuckoo** *Cacomantis flabelliformis*

Status: common breeding resident.

Recorded each month except Jul; 2 at NA in Jan and Sep, at Bodalla SF in Sep, at Belowra and Com in Oct; all other records of 1 or calls.

**Brush Cuckoo** *Cacomantis variolosus*

Status: summer breeding migrant.

Four at Pedro in Dec; 2 at NA in Jan; 2 at Com in Oct, calls in Jan and Nov-Dec; 2 at Gulaga in Dec; calls at PS in Jan and Oct-Nov, at Malua Bay in Nov-Dec, at MKS and Bodalla in Dec.

**STRIGIDAE** Hawk owls

**Powerful Owl** *Ninox strenua*

Status: Vulnerable (NSW Schedule 2); breeding resident.

Two at PS in Apr and Jul, call in Jun; 2 at Pedro in Jul-Sep, 1 in Oct-Dec; calls at Malua Bay and MKS in Mar, at Coolagolite in Apr, at Deua R in May-Jun and at MB in May.

**Southern Boobook** *Ninox novaeseelandiae*

Status: breeding resident.

Two at NA in Jan-Feb, Apr and Jun, at PS in Apr and at Bergalia in Oct-Nov; 1 or calls at 8 other locations.

**TYTONIDAE** Barn owls

**Masked Owl** *Tyto novaehollandiae*

Status: Vulnerable (NSW Schedule 2); uncommon breeding resident.

One at Pedro in Mar- Apr; 1 at PS in Aug, call in Feb. (JS/JM)

**Eastern Barn Owl** *Tyto javanic*

Status: uncommon breeding resident.

One at Com on 2 Apr; 1 dead on roadside at Bergalia in Oct; call at PS in Apr. (JC/NC/JM)

**ALCEDINIDAE** Kingfishers

**Azure Kingfisher** *Ceyx azureus*

Status: breeding resident.

Recorded each month except Aug; 8 at Bumbo Ck in Nov, 6 in Dec, 4 in Jan; 4 at Corunna L in Feb; 2 at Com in Jan-Feb, Apr and Sep, 1 in other months; 2 at BP in Mar; singles at 6 other locations.

**HALCYONIDAE** Kookaburras, kingfishers

**Laughing Kookaburra** *Dacelo novaeguineae*

Status: common breeding resident.

Widely reported in all months as individuals or family groups; 12 at MB in Apr and Dec; 10 at Deua R in Apr-Jun, at PS in Aug-Sep; 8 at Pedro in Apr, Aug and Oct-Nov; no more than 6 at other locations.

Breeding: nesting at Com in Sep-Oct, dependent young in Nov. (JC)

**Sacred Kingfisher** *Todiramphus sanctus*

Status: summer breeding migrant; some may overwinter.

One or two widely recorded in Jan-Mar, Oct-Dec; 8 at PS in Jan, at MB in Feb; 6 at Belowra in Oct, at Pedro in Oct-Nov, at Com in Nov-Dec; 4 at Bergalia in Dec; no more than 2 elsewhere.

Breeding: nesting in Jan and Nov, dependent young in Jan.

(DHK/JC/JM)

**CORACIIDAE** Dollarbird

**Dollarbird** *Eurystomus orientalis*

Status: summer breeding migrant.

Recorded in Jan-Feb and Oct-Dec; 10 at Com in Jan, at MB in Nov; 6 at Coolagolite in Nov; 5 at Pedro in Nov; 4 at Malua Bay and Bodalla in Dec; no more than 2 at other locations; last record at Com in mid-Feb, first return at Bergalia on 1 Oct.

Breeding: nesting at Com in Dec, dependent young in Jan. (JC)

**MENURIDAE** Lyrebirds

**Superb Lyrebird** *Menura novaehollandiae*

Status: breeding resident.

Recorded in all months; 10 at Boyne SF in May, 5 in Sep; 7 at NA in May; 5 at Deua R in May-Jun, at NA and Tilba in May; 4 at Bodalla SF and Gulaga in Sep; no more than 3 at other locations.

## **CLIMACTERIDAE** Treecreepers

### **White-throated Treecreeper** *Cormobates leucophaea*

Status: common breeding resident.

One or two widely reported in all months; 17 at Gulaga on 27 Sep; 8 at DS in Aug; 7 at MYA SF in Aug, 5 in May; 5 at Deua R in May-Jun; no more than 4 at other locations.

### **Red-browed Treecreeper** *Climacteris erythroptis*

Status: uncommon breeding resident.

Six at Gulaga on 31 Dec, 5 in Sep; 2 at MO in Jul, at Tilba in Aug and at Illawong NR in Oct; singles at NA in Jan and at Boyne SF in May.

## **PTILINORHYNCHIDAE** Catbirds, bowerbirds

### **Green Catbird** *Ailuroedus crassirostris*

Status: breeding resident.

Three at NA in Feb, 1-2 in Jan, Apr and Jun; singles at Kianga in Jan, at Bodalla SF and Gulaga in Sep.

Breeding: juvenile at NA in Apr. (JMG)

### **Satin Bowerbird** *Ptilonorhynchus violaceus*

Status: common breeding resident.

Widely reported in all months, usually one to six; up to 35 at MB in Jul, 20 in Sep; 30 at Com in Jul, 20 in Aug; 30 at Belowra in Aug; 15 at Coolagolite in Aug; 10 at Deua R in Apr-Jun, at NA in Apr and Jun, at Malua Bay in Aug; no more than 8 at other locations.

## **MALURIDAE** Fairy-wrens

### **Superb Fairy-wren** *Malurus cyaneus*

Status: common breeding resident.

Widely reported in all months in family groups up to 10; 50 at Com in Jan, 30-40 in other months; 40 at PS in Jan, Jun and Sep; 30 at Broulee in Sep-Oct; 25 at MB in Jul; 15 at MO in Jan and Jun; no more than 10 at other locations.

Breeding: nesting in Sep-Nov, dependent young in Jan-Feb and Nov-Dec.

### **Variigated Fairy-wren** *Malurus lamberti*

Status: breeding resident.

Reported in all months; up to 30 at PS in Jan and Jun, 20 in May and Aug-Sep; 12 at MB in Feb and Jul; 6 at BP in Apr, at MKS in Sep; 5 at NA in Feb; no more than 4 at other locations.

Breeding: juveniles at PS in Jan. (JM)

**Southern Emu-wren** *Stipiturus malachurus*

Status: uncommon breeding resident.

Up to 6 at Cullendulla Ck in May; 4 at Runnyford Rd in Jun.  
(DB/JM/NC)

**ACANTHIZIDAE** Scrubwrens, gerygones, thornbills and allies

**Pilotbird** *Pycnophilus floccosus*

Status: uncommon breeding resident.

Thirty two at Gulaga on 27 Sep, 10 in Dec; 2 at Wandera SF in Aug; 1 at Cowdroys Ck in May; call at MYA SF in May.

Breeding: juvenile at Gulaga on 31 Dec. (AM/JM/M Griffith)

**Yellow-throated Scrubwren** *Sericornis citreogularis*

Status: uncommon breeding resident in rainforest patches.

Five at Gulaga on 27 Sep; 2 at Wandera SF in Aug, at NA in Sep; 1 near the Kings Hwy in Jun. (AM/DSD/JM/MA/SB)

**White-browed Scrubwren** *Sericornis frontalis*

Status: common breeding resident.

Widely reported in all months; 40 at Gulaga in Sep; 10 at Tilba in Feb; 7 at Com in Jan, 6 in Feb and Apr; 6 at MB in Jul, at DS in Aug, at MKS in Sep, at Lilli Pilli in Nov; no more than 4 at other locations.

Breeding; nesting in Sep, dependent young in Jan and Nov, juveniles in Feb.

**Large-billed Scrubwren** *Sericornis magnirostra*

Status: uncommon breeding resident.

Thirty five at Gulaga in Sep, 9 in Dec; 12 at Tilba in Feb, 1 in Aug; 3 at Wandera SF in Aug; 2 at Cowdroys Ck in May; call at NA in Jan.

**Brown Gerygone** *Gerygone mouki*

Status: common breeding resident.

Reported in all months; 30 at Gulaga in Sep; 20 at Tilba in Feb; 10 at Belowra in Oct; 8 at Boyne SF in Aug; 8 at MB in Sep, 6 in Jan, Apr-May and Dec; 6 at NA in May, 5 in Sep; 5 at Deua R in Jun; no more than 4 at other locations.

Breeding: nesting in Feb and Aug. (GLM/SMG)

**White-throated Gerygone** *Gerygone albogularis*

Status: summer breeding migrant.

Four at Com in Sep-Oct, call in Mar; 1 at Bodalla SF in Sep; calls at Coila Ck in Jan, at Tilba in Feb, at Bergalia in Oct-Dec, at Belowra in



Oct, at MKS and Bumbo Ck in Dec.

**Striated Thornbill** *Acanthiza lineata*

Status: breeding resident.

Fifty at Gulaga in Sep; 40 at PS in Jan and May, 30 in Apr; 20 at MO and Com in Jan, at Eurobodalla Rd and MB in Jul, at DS in Aug; 15 at Cowdroys Ck in Jun; no more than 10 at other locations.

Breeding: nesting in Sep, dependent young in Oct, juveniles in Dec. (JM/MA/SMG)

**Yellow Thornbill** *Acanthiza nana*

Status: breeding resident.

Twenty at PS in Jan, 10 in Jun; 20 at Com in Mar, May-Jun and Sep, 10 in other months; 10 at PP in Apr; 8 at Bergalia in Aug; 6 at MYA in Mar, at Pedro Pt in Jul; no more than 5 at other locations.

Breeding: dependent young at Com in Jan. (JC)

**Yellow-rumped Thornbill** *Acanthiza chrysorrhoa*

Status: breeding resident.

Up to 20 at Com each month; 10 at Deua R in May; 8 at Bergalia in May-Jun, 5 in Aug; 7 at Belowra in Aug, 6 in Oct; no more than 4 at other locations.

Breeding: dependent young at Com in Dec. (JC)

**Buff-rumped Thornbill** *Acanthiza reguloides*

Status: uncommon breeding resident.

Six at Bimbimbee in Sep; 4 at ERBG in May. (JM/MA)

**Brown Thornbill** *Acanthiza pusilla*

Status: common breeding resident.

Widely reported in all months; 30 at Com in Jan and Mar, 20 in other months; 20 at NA in Feb and Jun, at Tilba in Feb, at Maloney's Beach in Mar, at PS in Mar, Jun and Sep, at Cowdroys Ck in Jun, at Pedro Pt and MB in Jul; no more than 15 at other locations.

Breeding: nesting in Aug-Sep, dependent young in Nov. (JC/JM/SMG)

**PARDALOTIDAE** Pardalotes

**Spotted Pardalote** *Pardalotus punctatus*

Status: common breeding resident.

One, two or calls widely reported in all months; up to 50 at MB on 19 Jul, 8 in Sep; 10 at PS in Jun; 10 at Gulaga in Sep, 3 in Dec; 5 at MO in Jun; no more than 2 elsewhere.

Breeding: nesting in Sep and Dec, dependent young in Jan. (SMG/JM)

**Striated Pardalote** *Pardalotus striatus*

Status: breeding resident.

Seven at Belowra in Aug, calls in Oct; 2 at Com in Jan, Aug-Oct, calls in Nov-Dec; calls at MYA SF in May, at PS and TS in Aug.

**MELIPHAGIDAE** Honeyeaters

**Eastern Spinebill** *Acanthorhynchus tenuirostris*

Status: common breeding resident.

Widely reported in all months; up to 100 at PP in Apr; 40 at ERBG in May; 20 at MYA SF in May, at Gulaga in Sep; 12 at Maloney's Beach in Mar, at NA in May, at MB in Jul and Sep; no more than 10 at other locations.

Breeding: dependent young in Feb, juveniles in Mar-May and Dec.

**Lewin's Honeyeater** *Meliphaga lewinii*

Status: common breeding resident.

Widely reported in all months; 10 at Tilba in Feb, 6 in Aug; 10 at NA in May-Jun, at Gulaga in Sep; 7 at Bodalla SF in May; 6 at MB in Jul; no more than 4 at other locations.

Breeding: dependent young at Com in Dec. (JC)

**Yellow-faced Honeyeater** *Lichenostomus chrysops*

Status: common breeding resident and summer migrant.

Widely reported throughout the year; up to 1300 at Benandarah SF in May; hundreds reported at a number of State Forest sites in Apr-May and Aug-Sep; 100 at Cowdroys Ck on 28 June; no more than 40 elsewhere.

Breeding: nesting in Sep, Nov-Dec, dependent young in Jan, Sep, and Nov-Dec, juveniles in Feb.

**White-eared Honeyeater** *Lichenostomus leucotis*

Status: autumn-winter migrant.

Reported Apr-Sep, mostly 1-2 or calls; 8 at MYA SF in May; 7 at Wandera SF in Aug; 6 at PS in May, 5 in Jun; 4 at Clyde R NP in Apr, at NA in May; no more than 2 at other locations.

**Yellow-tufted Honeyeater** *Lichenostomus melanops*

Status: uncommon breeding resident.

Forty at NA in May; 3 at Tilba in May. (COG/DSD/JM)

**Fuscous Honeyeater** *Lichenostomus fuscus*

Status: uncommon winter migrant and bird of passage.

Reported Apr-Sep; 100 at Boyne SF in Aug, 50 in Sep; 70 at Clyde R NP in Apr; 40 at Benandarah SF in May, 20 in Sep; 10 at BB in May, 6 in Jul; 6 at Bodalla SF in Aug; no more than 2 at other locations.

**Bell Miner** *Manorina melanophrys*

Status: common breeding resident.

Colonies reported at Belowra, Benandarah SF, Bodalla SF, Box Cutting, Kianga, MYA SF, NA, SB, Tilba, and WL.

**Noisy Miner** *Manorina melanocephala*

Uncommon breeding resident, mainly in southern parts of the Shire.

Two at Coolagolite on 3 Nov. (MA)

**Little Wattlebird** *Anthochaera chrysoptera*

Status: common breeding resident.

Reported in all months; 100 at Coila L in Jan; 50 at PP in Apr; 40 at Bogola Head in Jun; 30 at MYA in Sep; 25 at MO in Jun; 20 at MB in Jun; 16 at Pedro Pt in Jul; 15 at BP in Mar; fewer than 10 at other locations.

Breeding: nesting at BP in Dec, juveniles at Coila L in Jan.

(AM/JM/JW)

**Red Wattlebird** *Anthochaera carunculata*

Status: common breeding resident and bird of passage.

Widely reported in all months; up to 300 at NA in Aug, 150 in May; 200 at Tilba in May and Aug; 190 at Bodalla SF in Aug; 110 at Boyne SF in Aug, 100 in May; 100 at PS in Apr, at Benandarah SF in Aug; 85 at Wandera SF in Aug; no more than 50 at other locations.

Breeding: nesting in Sep and Dec; dependent young in Sep-Oct.

(GLM/JH/JW)

**White-fronted Chat** *Epthianura albifrons*

Status: Vulnerable (NSW Schedule 2); breeding resident.

Reported only from TS estuary; 8 in Nov, 4 in Dec. (FM/PJP)

**Scarlet Honeyeater** *Myzomela sanguinolenta*

Status: summer breeding migrant and bird of passage.

Twenty at PS in Jan, 15 in Nov; 8 at ERBG in May; 6 at NA in Feb, at Maloney's Beach in Mar, at Pedro and Belowra in Oct; 4 at MO in Jun; 3 at Pedro Pt in Jul, at Bodalla SF in Sep; 1-2 or calls elsewhere.

Breeding: nesting at MKS in Sep. (SMG)

**Crescent Honeyeater** *Phylidonyris pyrrhopterus*

Status: uncommon breeding resident, movement to coast in winter.

Recorded Apr-Sep; 28 at Wandera SF in Aug; 20 at ERBG in May-Jun; 12 at Deua NP in Aug; 11 at NA in May, at Gulaga in Sep; 8 at WL in May; 7 at Box Cutting in May; no more than 4 at other locations.

**New Holland Honeyeater** *Phylidonyris novaehollandiae*

Status: common breeding resident.

Widely reported in all months; 150 at PP in Apr; 70 at Boyne SF in Sep; 50 at Bogola Head in Jun; 40 at MB in Sep, 30 in Jul; 40 at Broulee in Oct, 30 in Aug; 30 at Tilba in May, at Pedro Pt in Jul; 25 at MO in Jun; no more than 20 at other locations.

Breeding: nesting at MKS in Sep, dependent young at PP in Apr, juveniles at MB in Dec.

**White-cheeked Honeyeater** *Phylidonyris niger*

Status: breeding resident in small localised colonies.

Twenty at Boyne SF in Sep; 10 at PP in Apr; 6 at MYA SF in May; 4 at Cowdroys Ck in May; 4 at MKS in Sep, 1 in Dec; 2 at Bodalla SF in May, at Kianga in Jun; present at Surfside in Jul-Aug.

**Brown-headed Honeyeater** *Melithreptus brevirostris*

Status: uncommon summer breeding migrant.

Recorded in all months; 10 at PS in Jul, 6 in Jun; 10 at Com in Sep, 4-6 in other months; 4 at MKS in Feb, at Gulaga in Sep; 3 at NA in May, at Belowra in Aug; no more than 2 at other locations.

Breeding: nesting at Com in Oct and Dec. (JC)

**White-naped Honeyeater** *Melithreptus lunatus*

Status: breeding resident and bird of passage.

Recorded in all months; 200 at Clyde R NP in Apr; 100 at Boyne SF in Sep; 60 at Wandera SF in Aug; 50 at Benandarah SF and NA in May, at Bodalla SF in Aug; 40 at Tilba in Aug; 30 at MYA SF and at NA in May; no more than 20 at other locations.

**Noisy Friarbird** *Philemon corniculatus*

Status: summer breeding migrant and bird of passage, often overwinters.

Recorded in all months; 200 at Boyne SF in May; 75 at Benandarah SF in May; 40 at Pedro in Mar, 20 in Aug-Sep; 21 at Clyde R NP in Apr; 20 at PS in Jan, Sep-Nov, at DS in Aug; no more than 10 at other locations.

Breeding: nesting in Sep-Dec, dependent young in Jan and Nov.  
(FM/JC/JM/JW)

**EUPETIDAE** Whipbird, Spotted Quail-thrush

**Spotted Quail-thrush** *Cinclosoma punctatum*

Status: breeding resident.

Six at Boyne SF on 6 Aug; single at Mungerarie SF and NA in Apr; at Buckenbours Rd in May, at Cowdroy's Ck and near the Kings Hwy in Jun, at Benandarrah SF and Wandera SF in Aug.

**Eastern Whipbird** *Psophodes olivaceus*

Status: common breeding resident.

Widely reported in all months; 38 at Gulaga in Sep; 12 at Broulee in Sep, 6 in Oct; 8 at MB in Dec, 6 in Jan and Sep; 4 at Mungerarie SF in Apr, at ERBG in May, at Deua R in Jun, at Boyne SF and DS in Sep; 1-3 or calls at other locations.

Breeding: juvenile at MB in Feb. (MA)

**NEOSITTIDAE** Varied Sittella

**Varied Sittella** *Daphoenositta chrysoptera*

Status: Vulnerable (NSW Schedule 2); breeding resident.

Recorded in all months; 12 at MYA SF in May; 10 at PS in Jan, 6 in Jun; 8 at Gulaga in Sep; up to 6 at Com each month; 6 at Tilba in Feb, at Bodalla SF in Aug, at Belowra in Oct; 5 at Bergalia in Apr; no more than 4 at other locations.

**CAMPEPHAGIDAE** Cicadabird, cuckoo-shrikes, triller

**Black-faced Cuckoo-shrike** *Coracina novaehollandiae*

Status: common breeding resident.

Widely reported in all months, usually 1 or 2; 6 at Pedro in Feb and Oct, at MB in Jul, at Belowra in Oct; 5 at Com and PS in Jan; no more than 4 at other locations.

Breeding: nesting in Nov, dependent young in Jan and Dec.

(JC/JM/MW)

**White-bellied Cuckoo-shrike** *Coracina papuensis*

Status: uncommon breeding resident and bird of passage.

Up to 6 at MYA in Sep, 1-3 in Jan-Feb and Sep; 5 at PS in Oct, 4 in Nov, 1-2 or calls most other months; 2 at NA in Jan, at MYA SF in May; 1 at BP in Mar.

Breeding: juveniles at PS in Mar. (JM)

**Cicadabird** *Coracina tenuirostris*

Status: summer breeding migrant.

Three at PS in Jan, calls in Feb-Mar and Oct-Dec; 1 at Bergalia in Jan; calls at Malua Bay in Feb and Oct-Dec, at MKS in Feb-Mar and Dec, at MYA in Feb, at Coolagolite in Dec.

**White-winged Triller** *Lalage sueurii*

Status: summer breeding migrant.

Six at Belowra on 25 Oct, calls at Com in Nov and at Gulaga in Dec.

**PACHYCEPHALIDAE** Whistlers and allies

**Crested Shrike-tit** *Falcunculus frontatus*

Status: breeding resident.

Two at NA in Jan, 1 in Sep; 2 at Broulee in Aug; calls at Cowdroys Ck in Jun, at MKS in Sep, at Gulaga in Dec.

**Olive Whistler** *Pachycephala olivacea*

Status: Vulnerable (NSW Schedule 2); uncommon breeding resident.

Three at Gulaga in Sep; 2 at NA in Feb. (AM/JM/JMG)

**Golden Whistler** *Pachycephala pectoralis*

Status: common breeding resident.

Widely reported in all months; 20 at Gulaga in Sep; 8 at MYA SF in May; 7 at PS in May, 6 in Mar-Apr and Jun; 6 at Deua R in Jun, at Com in Jul-Oct; 5 at Eurobodalla Rd in Jul; no more than 4 at other locations. Breeding: dependent young in Apr, juveniles in Jan-Mar. (JC/MA)

**Rufous Whistler** *Pachycephala rufiventris*

Status: summer breeding migrant.

Thirty at Belowra in Oct; 15 at PS in Nov, 8 in Oct; 8 at Bodalla SF in Sep, at Com in Oct-Dec; 4 at Deua R in Apr, at MYA SF in May, at Turlinjah and NA in Sep, at Illawong NR in Oct; no more than 2 at other locations.

Breeding: dependent young in Feb and Nov, juvenile in Mar. (JC/JM)

**Grey Shrike-thrush** *Colluricincla harmonica*

Status: common breeding resident.

Widely reported in all months, usually 1 or 2; 8 at Com in Jul, 6 in Aug-Sep; 6 at Deua R in May-Jun; 5 at Coolagolite in Jul, at Belowra in Aug; 4 at MB in Jan and Apr, at PS in Mar and Sep, at MKS in Aug, at Gulaga in Sep; no more than 3 at other locations.

Breeding: nesting at MKS in Sep. (SMG)

**ORIOLIDAE** Figbird, oriole

**Australasian Figbird** *Sphecotheres vieilloti*

Status: breeding resident and summer breeding migrant.

Ten at MYA in Jan-Mar and Nov, 5 in Sep; 9 at NA in May; 1 at PS in Sep, at TS in Dec.

**Olive-backed Oriole** *Oriolus sagittatus*

Status: summer breeding migrant; some overwinter.

Widely reported Jan-May and Aug-Dec; 11 at Tilba in May; 10 at PS in Nov; 6 at Belowra in Oct; 4 at Com in Dec; 3 at Bodalla SF in Sep; 1-2 or calls at other locations

Breeding: dependent young at Com in Dec, juvenile at PS in Jan.  
(JC/JM)

**ARTAMIDAE** Butcherbird, magpie, currawongs, woodswallows

**White-breasted Woodswallow** *Artamus leucorhynchus*

Status: uncertain.

Up to 16 at Pedro in Apr; 15 at MYA in Feb; 10 at PS in Jan, 4 in Mar, 2 in Feb; 5 at MHS in Jan.

Breeding: juveniles at MYA in Feb. (NC)

**Dusky Woodswallow** *Artamus cyanopterus*

Status: summer breeding migrant.

Up to 30 at Bergalia in Apr, 12 in Sep, 8 in Mar; 20 at Bodalla in Sep, at Belowra in Oct; 4 at PP in Apr; singles at Coolagolite in Aug, at WL in Oct and at Bumbo Ck in Nov.

Breeding: nesting at Belowra in Oct. (FM)

**Grey Butcherbird** *Cracticus torquatus*

Status: common breeding resident.

Widely reported with 1-2 at most localities throughout the year; 10 at Deua R in Jun; 6 at PS in Feb-Mar; 5 at MO in Jan, at Com in Jan and Nov; no more than 4 at other locations.

Breeding: nesting in Jul-Oct, dependent young in Jan and Nov. (JC/JH)

**Australian Magpie** *Cracticus tibicen*

Status: common breeding resident.

Widely reported throughout the year; up to 50 at Com in Mar, Sep and Nov, 20-40 in other months; 30 at MYA in Sep; 20 at MB in Jan, Apr-Jul, and Nov-Dec; 15 at Broulee in Sep; 12 at MO in Jan, at Bogola Head in Jun; no more than 10 at other locations.

Breeding: nesting in Jul and Sep, dependent young in Sep-Dec.

**Pied Currawong** *Strepera graculina*

Status: common breeding resident.

Widely reported all year; up to 50 at MB in Jul, 25 in Sep; 30 at Com in Apr-May, at PS in Jun; 29 at BP in Feb, 23 in Mar; 25 at Coolagolite in May; 20 at PP in Apr, at MYA in Jun; 15 at DS in Aug; 14 at Pedro in Jul; no more than 10 at other locations.

Breeding: nesting in Sep, dependent young in Nov-Dec, juvenile in Nov.

**Grey Currawong** *Strepera versicolor*

Status: uncommon resident and winter migrant to coast.

Two at Deua R in May-Jun, at NA in Jun, at Com in Jul-Sep, at Belowra in Aug. (JC/JMG/MS)

**DICRURIDAE** Drongo

**Spangled Drongo** *Dicrurus bracteatus*

Status: uncommon autumn-winter migrant.

Single birds at PS in Jan and May, at MB in Apr and at Akolele in May. (AC/JM/B Jones)

**RHIPIDURIDAE** Fantails

**Rufous Fantail** *Rhipidura rufifrons*

Status: summer breeding migrant.

Recorded Jan-May and Oct-Dec; 5 at PS in Mar, 2 in Apr; 4 at Deua R in Apr-May; 2 at NA in Jan, at MKS in Dec; singles at Tilba in Feb, at TS in Mar, at Lilli Pilli and MB in Apr, at Nerrigundah in Oct and at MYA in Nov.

Breeding: juveniles at PS in Mar. (JM)

**Grey Fantail** *Rhipidura albiscapa*

Status: common breeding resident.

Widely reported throughout the year; 50 at Gulaga in Sep; 10-20 at Com each month; 20 at PP in Apr; 16 at PS in Mar; 15 at Broulee in Sep; 10 at Tilba in Feb, at NA in Apr and Jun, at Deua R in Jun, at Illawong NR and Belowra in Oct; fewer than 10 at other locations.

Breeding: nesting in Oct-Dec, dependent young in Jan and Nov-Dec.

**Willie Wagtail** *Rhipidura leucophrys*

Status: common breeding resident.

Widely reported in all months, 1-4 at most sites; 20 at Com in Jan and Oct-Dec, 12-16 in other months; 10 at Belowra in Oct, 8 in Aug; 6 at NA in Sep; no more than 4 at other locations.

Breeding: nesting in Sep-Nov, dependent young in Jan and Oct-Dec.



## **CORVIDAE** Ravens

### **Australian Raven** *Corvus coronoides*

Status: common breeding resident.

Widely reported throughout the year; 20 at Com in Jan and Jun, at BP in Mar, at Malua Bay and Pedro in Aug; 12 at PS in Aug; 10 at Boyne SF and Deua R in May, at Belowra in Aug, at Broulee in Oct and at MB in Nov; fewer than 10 elsewhere.

Breeding: dependent young in Jan, juveniles in Feb. (JM)

### **Little Raven** *Corvus mellori*

Status: uncommon resident and winter migrant to coast.

Up to 100 at Com in Jun, 40 in May, Jul-Aug, 20 in Mar-Apr; 2 at MB in Jun. (JC/MA)

## **MONARCHIDAE** Monarchs, flycatchers.

### **Leaden Flycatcher** *Myiagra rubecula*

Status: summer breeding migrant.

Recorded Jan-Apr and Oct-Dec; 15 at PS in Nov, 10 in Dec, 6 in Oct; 2 at Bergalia in Jan and Mar, at MO and NA in Jan, at MB in Feb, at Belowra in Oct; 1 at Malua Bay in Jan; calls at MKS in Feb and Dec.

Breeding: nest with young at PS in Dec. (JM)

### **Restless Flycatcher** *Myiagra inquieta*

Status: breeding resident and winter migrant to coast.

Recorded in all months; 5 at Com in Nov, 3 in Jan and Dec, 1-2 most other months; 3 at Belowra in Aug, 1 in Oct; 1-2 at Bergalia in Apr-Jun; 1 at Coolagolite in Mar.

Breeding: dependent young at Com in Jan and Nov. (JC)

### **Black-faced Monarch** *Monarcha melanopsis*

Status: summer breeding migrant.

Recorded Jan-Feb and Sep-Dec; 2 at Com in Jan, at NA in Jan-Feb and Sep, at Deua R in Oct; singles at MO in Jan, at Lilli Pilli and MB in Feb; calls at Deua NP, Gulaga, MKS, Nerrigundah, PS, Tilba and WL; last record at Lilli Pilli on 27 Feb, first return at NA on 21 Sep.

### **Magpie-lark** *Grallina cyanoleuca*

Status: common breeding resident.

Widely reported throughout the year; 20 at Com in Apr-May, 6-12 in other months; 18 at MB in Sep; 10 at MYA in Mar; 6 at Bergalia in Jan, at Belowra in Aug; no more than 4 at other locations.

Breeding: nesting at Com in Oct-Nov, dependent young in Nov. (JC)

**CORCORACIDAE** White-winged Chough

**White-winged Chough** *Corcorax melanorhamphos*

Status: breeding resident.

Up to 24 at PS in Jan; 20 at NA in Jun; 16 at MB in Jul; 15 at Pedro in Mar; 13 at Com in Mar; 12 at CO in Aug, at Coolagolite in Oct, at Bodalla in Dec; no more than 8 at other locations.

Breeding: nesting in Aug-Sep, dependent young in Oct-Nov, juveniles in Feb and Dec. (JC/JM)

**PETROICIDAE** Robins

**Jacky Winter** *Microeca fascinans*

Status: breeding resident.

Recorded in all months; 18 at Belowra in Aug, 8 in Oct; 12 at Com in Sep, 10 in Jul; 10 at Deua R in Apr-Jun; 6 at Bodalla in Jan; no more than 4 at other locations.

Breeding: nesting at Com in Sep, dependent young at Bodalla in Jan. (JC/JM)

**Scarlet Robin** *Petroica boodang*

Status: Vulnerable (NSW Schedule 2); uncommon breeding resident and winter migrant to coast.

Recorded Mar-Aug; 2 at Bergalia in Apr, Jul-Aug, 1 in May-Jun; 2 at PS in Jun-Jul, 1 in Aug; singles at Montagu Is in Mar, at Bingie in May-Jun, at Com in May and Jul and at MB in Jun.

**Flame Robin** *Petroica phoenicea*

Status: Vulnerable (NSW Schedule 2); rare breeding resident.

Four at Belowra on 10 Aug. (JC)

**Rose Robin** *Petroica rosea*

Status: uncommon local breeding resident and winter migrant to coast.

Recorded all months except Nov; 26 at Gulaga on 27 Sep; 4 at Com in Apr; 3 at NA in Jan, at Bodalla SF in Mar; 1-2 or calls at other locations.

Breeding: juvenile at Bodalla SF in Mar. (DSD/JM)

**Eastern Yellow Robin** *Eopsaltria australis*

Status: common breeding resident.

Widely reported in all months with 1-4 at most locations; 12 at MKS in Sep; 9 at Maloney's Beach in Mar; 8 at Malua Bay in Jun, at MB and WL in Sep; 6 at NA in Jan-Feb, at Tilba in Feb, at Broulee in Sep, at Illawong NR in Oct; no more than 5 at other locations.

Breeding: nesting in Sep-Oct, dependent young in Mar and Oct,

juveniles in Feb.

**CISTICOLIDAE** Cisticolas

**Golden-headed Cisticola** *Cisticola exilis*

Status: uncommon breeding resident.

Up to 10 at Com in Jan-Apr, 4 in May-Jul, calls in other months; recorded at Montagu Is in Mar. (JC/C Davey)

**ACROCEPHALIDAE** Reed-Warblers

**Australian Reed-Warbler** *Acrocephalus australis*

Status: summer breeding migrant.

Recorded in Jan-Apr, Oct and Dec; 8 at PS in Jan, 6 in Feb; 2 at Com in Jan-Apr, at MKS in Feb-Mar; 1 at Montagu Is in Mar; calls at Illawong NR and PS in Oct, at MKS in Dec.

Breeding: nesting at MKS in Feb, juvenile at PS in Jan. (SMG/JM)

**MEGALURIDAE** Grassbirds, songlarks

**Little Grassbird** *Megalurus gramineus*

Status: uncommon resident, probably breeding.

Up to 3 at PS in Jan, 2 in Feb, calls in Oct; 2 at Com in Oct, calls in Sep and Nov-Dec; recorded at Montagu Is in Mar.

**Rufous Songlark** *Cincloramphus mathewsi*

Status: uncertain.

Six at Belowra in Oct; 2 at Com in Oct-Nov. (FM/JC)

**TIMALIIDAE** Silvereye

**Silvereye** *Zosterops lateralis*

Status: common summer breeding migrant and bird of passage.

Widely reported in all months; no more than 20 at all locations Jan-Feb, large flocks moving north in Mar-May and south in Jul-Sep, numbers then reducing to 10 or less at all locations Oct-Dec.

Breeding: dependent young a Com in Nov. (JC)

**HIRUNDINIDAE** Swallows, martins

**Welcome Swallow** *Hirundo neoxena*

Status: common breeding resident and summer breeding migrant.

Widely reported throughout the year; up to 120 at Com in Apr, 40-80 in other months; 80 at MB in Jul; 50 at Montagu Is in Oct; 40 at Bogola Head in Jun; 30 at Broulee in Sep, at BP in Dec; no more than 20 at other locations.

Breeding: nesting in Aug-Nov, dependent young in Sep-Dec.

**Fairy Martin** *Petrochelidon ariel*

Status: spring/summer-breeding migrant.

One at Coolagolite on 8 Mar. (DO)

**Tree Martin** *Petrochelidon nigricans*

Status: resident and summer breeding migrant.

Up to 80 at Com in Apr, 10-60 in other months; 35 at Trunketabella in Sep; 20 at MYA in Sep, 6 in Aug; 2 at MYA SF in May; 1 at TS in Nov.

**TURDIDAE** Thrushes

**Bassian Thrush** *Zoothera lunulata*

Status: uncommon breeding resident.

Four at Deua R in Jun, 2 in May, 1 in Apr; 3 at ERBG in Jun, 1 in May; 2 at NA in Jan-Feb, 1 in Jun; 2 at Malua Bay in Jun, at PS in Jul; 1 at Tilba in Feb.

**Common Blackbird** *Turdus merula*

Status: breeding resident.

Four at MYA in Dec, 1-2 in Jun-Jul and Sep-Nov; 1 at Com in Apr and Jun. (JL/JC)

**STURNIDAE** Starlings

**Common Starling** *Sturnus vulgaris*

Status: common breeding resident.

Up to 100 at Com in Jan, Apr-May and Aug, 60-80 in other months; 30 at Belowra in Aug, 1 in Oct.

Breeding: nesting at Com in Oct, dependent young in Jan, Mar-Apr and Nov-Dec. (JC)

**Common Myna** *Sturnus tristis*

Status: breeding resident.

Up to 24 in MYA in Feb, 15 in Jan and Apr, 3-10 in other months; 3 at MO in Jan; 2 at Com in Jan, Mar, May and Aug-Nov, at Bodalla in Apr; 1 at Kianga in Jun.

**NECTARINIIDAE** Mistletoebird

**Mistletoebird** *Dicaeum hirundinaceum*

Status: breeding resident and bird of passage.

Recorded in all months; 8 at MYA SF in May; 5 at NA in May, 3 in Sep; 4 at Com in Jun; 3 at Mungerarie SF in Apr; 1-2 or calls at other localities.

Breeding: nest with young at Coolagolite in Jan-Feb. (DO)

## **ESTRILDIDAE** Grass-finches

### **Red-browed Finch** *Neochmia temporalis*

Status: common breeding resident.

Widely reported throughout the year; up to 120 at Com in Mar, 30-80 in other months; 60 at WL in May; 50 at PS in Jun and Nov, 40 in Jan and Apr; 50 at MKS in Jul, 40 in Aug; 50 at MB in Sep; no more than 30 at other locations.

Breeding: nesting in Jan-Apr and Sep-Dec, dependent young in Jan-Apr and Dec, juveniles in Jan.

## **PASSERIDAE** House Sparrow

### **House Sparrow** *Passer domesticus*

Status: common breeding resident.

Up to 20 at MYA in Feb-Mar and May, 5-15 most other months; 8 at Tilba in Sep and Nov-Dec, 6 in Apr, 4 in Feb; 4-5 at BB in Mar-Apr; 2 at MO in Jan.

## **MOTACILLIDAE** Australasian Pipit

### **Australasian Pipit** *Anthus novaeseelandiae*

Status: breeding resident.

Ten at Com in Aug-Dec, 8 in other months; 7 at Bingie in Sep and Nov, 1-5 most other months; 4 at MB in Dec; 2 at MO in Jul, at Belowra in Aug and Oct, at TS in Nov; 1 at Montagu Is in Mar, at NA in Jun.

## **FRINGILLIDAE** Finches

### **European Goldfinch** *Carduelis carduelis*

Status: uncommon breeding resident.

Six at Com on 1 Oct; 2 at MB on 24 Dec. (JC/MA)

## **MAMMALS**

## **ORNITHORHYNCHIDAE**

### **Platypus** *Ornithorhynchus anatinus*

One observed in the Deua River on 21 July near Larry's Mountain Road, west of Moruya. (RS/AR)

## **TACHYGLOSSIDAE**

### **Short-beaked Echidna** *Tachyglossus aculeatus*

Widespread and recorded in all months except Apr-June; more than 4 at Pedro in Nov, 3 in Oct, 2 in Dec and 1 in Feb and Sep; singles at BP in Jan-Feb and Dec, at MKS in Sep, at PS in Jan-Feb and Aug-Sep, at Bergalia in Nov, at TS in Oct-Nov, at MB in Sep-Dec, at WL in Sep and

at Coolagolite in Mar, Jul and Dec.

## **DASYURIDAE**

**Spotted-tailed Quoll** *Dasyurus maculatus*

Signs at PS in Feb, Jul and Sep. (JM)

**Brown Antechinus** *Antechinus stuartii*

One at Lilli Pilli in Feb-Mar and Jun. (IAG)

**Antechinus sp.**

One at Bergalia in Dec, at Bodalla SF in Aug.

## **PERAMELIDAE**

**Long-nosed Bandicoot** *Perameles nasuta*

One at Lilli Pilli in Jun, at Deua R in Oct; signs at MB in Sep.  
(IAG/RS/AR/MA/AC)

## **VOMBATIDAE**

**Common Wombat** *Vombatus ursinus*

One or two or signs at Coolagolite throughout the year; single at Deua R in Oct, at Com in Apr and Aug-Sep, at Eurobodalla in Jul.

## **PETAURIDAE**

**Yellow-bellied Glider** *Petaurus australis*

Pair calling at Mossy Pt in May; call at MKS in Sep. (HR/SMG)

**Sugar Glider** *Petaurus breviceps*

Three at Pedro in Oct, 2 in Feb and Nov, 1 in Mar and Dec; 2 at Coolagolite in Aug-Sep; singles at Mossy Pt in Apr-May; calls at BP in Dec, at PS in Apr, at Com in Aug, at MB in Feb.

**Greater Glider** *Petaurides volans*

One seen emerging from a hollow at Surfside in Sep. (R Soroka)

## **PSEUDOCHEIRIDAE**

**Common Ringtail Possum** *Pseudocheirus peregrinus*

Four at Pedro in Sep; 1 at Lilli Pilli in Jun, at Bodalla and PP in Jan, at MB in Jul. (JS/IAG/MA/AC/RK)

## **PHALANGERIDAE**

**Common Brushtail Possum** *Trichosurus vulpecula*

Widespread and regularly recorded throughout the year in resident groups; up to 6 at Com in every month except Jan; up to 5 at Pedro in Feb, 3 in Apr-May, Oct-Dec; 1 or 2 at BP in Jan-Apr and Dec, at Lilli

Pilli in Feb and Jun, at MB in Jan, Jul, Sep and Nov; singles at Mossy Pt in Apr-May, at PS in Aug, at Belowra in Oct and at Coolagolite in Mar.

## **MACROPODIDAE**

### **Eastern Grey Kangaroo** *Macropus giganteus*

Widespread and regularly recorded throughout the year; highs of 61 at Coolagolite in Oct, 35 at PS in Feb, 30 at Maloney's Beach in Mar, 20 at PP in Apr.

### **Red-necked Wallaby** *Macropus rufogriseus*

Widespread and regularly recorded throughout the year; 10 at PP in Apr, 7 in Jan; 6 at Bodalla in Jan; up to 5 at Coolagolite throughout the year; 2-4 at Mossy Pt in Feb, Apr-May; 3 at TS in Sep; 2 at Blackfellow's Pt in Nov; 1 at Deua R in Oct with a joey.

### **Swamp Wallaby** *Wallabia bicolor*

Widespread and regularly recorded throughout the year; up to 10 at PS throughout the year, at MB in Sep-Oct; 7 at Bodalla in Mar; 6 at PP in Apr; 5 in the Bodalla SF in Sep; 4 in the MYA SF in Sep; 3 at Deua R in Oct and Bogola Head in Jun; up to 3 at Pedro in Feb, Apr-May, Sep-Dec and at Coolagolite throughout the year; no more than 2 elsewhere.

## **PTEROPODIDAE**

### **Grey-headed Flying Fox** *Pteropus poliocephalus*

More than 300,000 in BBWG in Mar; thousands returned to their regular camp at MHS in mid Feb and tens of thousands recorded in Mar; small camp at Ringlands in Apr; hundreds over Pedro in Oct; up to 50 over PS in Feb; 1-2 at Mossy Pt in Jan and May. (DB/JM/D Num/JS/HR)

## **MURIDAE**

### **Water Rat** *Hydromys chrysogaster*

One found dead at Cullendulla Ck in Aug. (NC)

### **House Mouse** *Mus musculus*

Four at Bergalia in Sep and 1 in Nov. (DHK)

### **Bush Rat** *Rattus fuscipes*

One at Lilli Pilli in Mar, at MHS in Aug and at TS in Sep-Oct. (IAG/NC/JH)

### **Swamp Rat** *Rattus lutreolus*

Signs at Coolagolite in Dec. (DO)

**Black Rat** *Rattus rattus*

Up to 6 at Pedro in Feb and Apr; 1 at Coolagolite in May and Jul-Aug. (JS/DO)

**OTARIDIDAE**

**New Zealand Fur Seal** *Arctocephalus forsteri*

Six at NA on 20 May: small number with pups at Montagu Is in Mar. (DSD/C Davey)

**Australian Fur Seal** *Arctocephalus pusillus*

Up to 100, including pups, at Montagu Is in Mar; up to 17 at NA in Apr; up to 6 off MHS in Apr and Jul and off Bingie Pt in Aug-Sep; 2 at MB in Jul; 1 off Bogola Head in Jun. (C Davey/JMG/R Streeter/FM/DHK/MA)

**CANIDAE**

**Dingo** *Canis lupus dingo*

Small pack heard calling at Mungerarie Fire Trail in Apr; heard at Com in Jan, Apr, Jul-Aug. (FM/JC)

**Red Fox** *Vulpes vulpes*

Up to 3 at BP in Jan-Mar, including young; 1 at Deua R in Oct, at Pedro in May, at PS in May and Jul, at Com in Aug and at Coolagolite in Jun, Aug and Nov.

**LEPORIDAE**

**Rabbit** *Oryctolagus cuniculus*

More than 35 at MB in Jul; up to 4 at Bingie Pt, Mullimburra Pt and CO in Sep; 3 at TS in Sep-Oct; 1 at Bogola Head in Jun.

**SUIDAE**

**Pig** *Sus scrofa*

Wild pigs reported at Comerang Mountain and Bumbo Road causing damage to tree roots and paddocks in the area. (JC)

**DELPHINIDAE**

**Bottle-nosed Dolphin** *Tursiops truncatus*

Fifteen at MHS in Jul; 10-15 at MB in Jun-Jul; 6 at BP in Dec and 4 in Mar. (FM/MA/AC/JW)

**BALAENOPTERIDAE**

**Humpback Whale** *Megaptera novaeangliae*

Pods reported at MB in Jun-Jul; group breaching off Broulee in Jun; 4



off MHS in Jul. Dead sub-adult being fed on by Tiger Sharks just off Broulee Is in Jan. (MA/AC/HR/FM)

## REPTILES

### CHELIDAE

**Snake-necked Turtle** *Chelodina longicollis*

Up to 10 at Com in Jan-May and Sep-Dec; 1 at PS in Jan and eggs dug up in Nov. (JC/JM)

### SCINCIDAE

**Black Rock Skink** *Ergenia saxatilis*

Up to 20 in MYA in Mar-Apr. (JL)

**Yellow-bellied Water-skink** *Eulamprus heatwolei*

Up to 3 at Com in Feb-May, Sep-Dec. (JC)

**Eastern Water-skink** *Eulamprus quoyii*

Up to 10 in MYA in Sep. (JL)

**Dark-flecked Garden Sunskink** *Lampropholis delicata*

Colonies at BP, Mossy Pt, MYA and TS active from Jan-May and Oct-Dec.

**Pale-flecked Garden Sunskink** *Lampropholis guichenoti*

Small groups at BP and MYA in Jan-Apr and Dec. (JL/JW)

**Weasel Skink** *Saproscincus mustelinus*

Singles at BP in Jan-Mar and Dec and at Mossy Pt in Feb. (JW/HR)

**Eastern Blue-tongue** *Tiliqua scincoides*

Up to 3 at Com in Feb, Apr, Nov-Dec; 1 or 2 at BP in Mar and Dec; singles at Mossy Pt in Jan, MYA in Feb, Coolagolite in Apr and Oct.

### AGAMIDAE

**Jacky Lizard** *Amphibolurus muricatus*

Up to 3 at Mossy Pt in Jan; 1 or 2 at PS in Jan-Feb and Coolagolite in Jan-May, Aug- Dec; singles at BP in Feb, Apr and Dec.

**Eastern Water Dragon** *Physignathus lesueurii*

One at the Deua R in Oct. (RS/AR)

**Gippsland Water Dragon** *Physignathus lesueurii howittii*

Up to twenty at Com in Dec, 10 in Feb-Apr and Sep-Nov, 5 in May; 1 at Coolagolite in Feb. (JC/DO)

## VARANIDAE

### **Lace Monitor** *Varanus varius*

Up to 3 at Pedro in Feb, Oct and Dec; up to 2 at Lilli Pilli in Feb-Mar, at PS in Jan-Feb and Coolagolite in Jan-Mar, Oct, Dec; singles at BP in Jan-Mar and Dec, at Com in Jan-Feb, Oct and Dec.

## BOIDAE

### **Diamond Python** *Morelia spilota*

Singles at BP in Jan, at PS in May, Jul-Aug, at Com in Dec, at NA in May, at MB in Feb and Sep. (JW/JM/JC/AM/MA)

## ELAPIDAE

### **Mustard-bellied Snake** *Drysdalia rhodogaster*

One at Coolagolite in Oct. (DO)

### **Red-bellied Black Snake** *Pseudechis porphyriacus*

Seen in all months except June; 3 at Pedro in Sep; up to 2 at Com in Mar-Apr, Sep-Dec, at Coolagolite in Apr-May, Jul-Aug, Oct and Dec; 1 at BP in Jan-Mar, at MKS in Feb and Sep, at Illawong NR in Oct, at PS in Jan-Feb, at TS in Sep, at Belowra in Oct, at MB in Jan and Sep.

### **Eastern Brown Snake** *Pseudonaja textilis*

One at Belowra in Oct. (FM)

## FROGS

## MYOBATRACHIDAE

### **Common Eastern Froglet** *Crinia signifera*

Common and widespread in coastal lands, woodland: recorded throughout the year at BP, Mossy Pt, Bimbimbee, MYA, Pedro Pt, PS, Com, MB and Gulaga.

### **Eastern Banjo Frog** *Limnodynastes dumerilii*

One or two in MYA in Jan-Mar and Oct. (JL)

### **Brown-striped Frog** *Limnodynastes peronii*

Widespread and common on coast; recorded at BP, Mossy Pt, MYA and Com in all months except Jun-Jul.

### **Haswell's Frog** *Paracrinia haswelli*

Calls at PS in Mar and Oct. (JM)

### **Brown Toadlet** *Pseudophryne bibronii*

Recorded at BP in Jan-Mar and Dec and at Mossy Pt in Apr-May.

**Tyler's Toadlet** *Uperoleia tyleri*

Up to 3 at Mossy Pt in Jan; calls at PS in Sep. (HR/JM)

**HYLIDAE**

**Keferstein's Tree Frog** *Litoria dentata*

Up to 10 at Mossy Pt in Jan-Feb, Apr-May; up to 3 at Pedro in Feb and Nov; calls at BP in Jan-Apr and Dec, at Com in Jan-Apr, Sep-Dec. (HR/JS/JW/JC)

**Brown Tree Frog** *Litoria ewingii*

Calls at BP in Jan, Mar-Apr and at PS in Sep.

**Eastern Sedgefrog** *Litoria fallax*

A number seen among the Lomandra at ERBG in May; singles at Mossy Pt in Jan-Feb. (HR)

**Jervis Bay Tree Frog** *Litoria jervisiensis*

One or two at Mossy Pt in Jan-Feb, May; calls at PS in May-Jun.

**Lesueur's Tree Frog** *Litoria lesueuri*

Call at BP in Dec.

**Peron's Tree Frog** *Litoria peronii*

Common and widespread in coastal areas: up to 9 at Mossy Pt in Jan-Feb, Apr-May; up to 5 in MYA in Jan, Mar-Apr, Jun-Jul, Sep-Dec; up to 2 at Coolagolite in Mar-Jun, Aug-Dec; 1 or calls at BP in Jan-Apr and Dec, at Com in Jan-May, Sep-Dec.

**Leaf-green Tree Frog** *Litoria phyllochroa*

Calls at MYA in Feb, at Cowdroys Ck in May and at NA in Sep. (JL/AM/JM)

**Tyler's Tree Frog** *Litoria tyleri*

Up to 12 at Pedro in Feb-Mar; 2 at Mossy Pt in Jan; calls at PS in Sep. (JS/HR/JM)

**Verreaux's Tree Frog** *Litoria verreauxii*

Up to 4 at MYA in Jan-Apr, Jun-Jul, Sep-Dec; up to 3 at BP in Jan-Apr, Dec; 1 at Mossy Pt in Jan; calls at Com throughout the year.

**INSECTS**

**DRAGONFLIES, DAMSELFLIES**

**Metallic Ringtail** *Austrolestes cingulatus*: Sep.

**Orange Threadtail** *Nososticta solida*: Dec.  
**Aurora Bluetail** *Ischnura aurora*: Jan-Feb.  
**Common Bluetail** *Ischnura heterosticta*: Jan-May, Sep-Dec.  
**Blue-spotted Hawker** *Adversaechna brevistyla*: Nov.  
**Australian Emerald** *Hemicordulia australiae*: Jan.  
**Tau Emerald** *Hemicordulia tau*: Jan-Apr, Oct-Dec.  
**Blue Skimmer** *Orthetrum caledonicum*: Jan-Mar, Oct-Dec.  
**Scarlet Percher** *Diplacodes haematodes*: Jan, Dec.  
**Wandering Percher** *Diplacodes bipunctata*: Jan-Apr, Oct-Dec.  
**Black-faced Percher** *Diplacodes melanopsis*: Dec.  
**Swamp Flat-tail** *Austrothemis nigrescens*: Jan.  
**Common Glider** *Tramea loewii*: Jan, Nov.

### BUGS, CICADAS

**Harlequin Bug** *Dindymus versicolor*: Jan-May, Aug-Dec.  
**Green Vegetable Bug** *Nezara viridula*: Nov.  
**Bronze Orange Bug** *Musgraveia sulciventris*: Jan-Mar, Dec.  
**Metallic Shield Bug** *Scutiphora pedicellata*: Jan, Dec.  
**Pale Cotton Stainer** *Dysdercus sidae*: Jan-Feb.  
**Water Strider** *family Gerridae*: Jan, Apr, Jun, Oct-Dec.  
**Water Boatman** *family Corixidae*: Feb, Apr.  
**Razor Grinder** *Henicopsaltria eydouxii*: Jan.  
**Black Prince** *Psaltoda plaga*: Jan.  
**Double-spotted Cicada** *Cicadetta labeculata*: Jan.  
**Black Squeaker** *Pauropsalta encaustica*: Feb.  
**Floury Baker** *Aleeta curvicosta*: Feb.

### BEETLES

**Repsimus Beetle** *Repsimus aeneus*: Jan-Mar, Nov-Dec.  
**Christmas Beetle** *Anoplognathus pallidocollis*: Dec.  
**Argentinian Scarab** *Cyclocephala signaticollis*: Jan-Feb, Nov-Dec.  
**Net-winged Beetle** *Porrostoma rhipidium*: Jan-Feb, Apr-May, Oct-Dec.  
**Plague Soldier Beetle** *Chauliognathus lugubris*: Jan-Apr, Oct-Nov.  
**Banded Pumpkin Beetle** *Aulocophora hilaris*: Jan, Oct-Dec.  
**Honeybrown Beetle** *Ecnolagria grandis*: Jan-Feb, Nov-Dec.  
**Metallic Green Acacia Beetle** *Calomela ruficeps*: Dec.  
**Small Blue Leaf** *Nisotra breweri*: Jan, Oct-Dec.  
**Three-lined Potato Beetle** *Lema daturaphila*: Feb-Apr.  
**Botany Bay Weevil** *Chrysolopus spectabilis*: Dec.

## **Ladybirds:**

**Yellow-shouldered Ladybird** *Apolinus lividgaster*: Jan-Feb, May.

**Transverse Ladybird** *Coccinella transversalis*: Nov-Dec.

**Mealybug Ladybird** *Cryptolaemus montnouzieri*: Apr-May, Oct-Dec.

**Twenty-eight Spotted Ladybird** *Epilachna vigintioctopunctata*: Feb-Mar.

**Twenty-six Spotted Ladybird** *Epilachna vigintisexpunctata*: Jan-May, Sep-Dec.

**Steelblue Ladybird** *Halmus chalybeus*: Jun, Dec.

**Common Spotted Ladybird** *Harmonia conformis*: Oct-Dec.

**Spotted Amber Ladybird** *Hippodamia variegata*: Jan-Feb, Apr, Oct-Dec.

**Fungus-eating Ladybird** *Illeis galbula*: Feb-May, Nov-Dec.

**Striped Ladybird** *Micraspis frenata*: Jan-Jun, Sep-Dec.

## **FLIES**

**Native Drone Fly** *Eristalinus punctulatus*: Jan, Nov-Dec.

**Giant Robber Fly** *Blepharotes splendidissimus*: Mar.

## **MOTHS**

### **HEPIALIDAE**

*Elhamma australasiae*: Feb-Mar.

*Oxycanus dirempta*: Mar, Jun.

*Oxycanus silvanus*: Jun.

### **PLUTELLIDAE**

**Diamondback Moth** *Plutella xylostella*: Jun, Oct-Nov.

### **COSSIDAE**

**Cossid Wood Moth** *Endoxyla leucomochla*: Jan.

### **LIMACODIDAE**

**Four-spotted Cup Moth** *Pseudanapaea transvestita*: Mar.

### **PTEROPHORIDAE**

**Plume Moth** sp.: Jan, Oct, Dec.

### **PYRALIDAE**

**Meal Moth** *Pyralis farinalis*: Jan, Dec.

*Hednota pleniferellus*: Mar.

*Hednota* sp.: Feb.

*Musotima ochropteralis*: May.

*Tipanaea patulella*: Jan.

**Asian Corn Borer** *Ostrinia furnacalis*: Jan.

**Beet Webworm** *Spoladea recurvalis*: Mar-Apr.

*Nacoleia rhoeoalis*: Feb-Mar.

**Eggfruit Caterpillar** *Sceliodes cordalis*: Jan, Mar.

## GEOMETRIDAE

**Black Geometrid** *Melanodes anthracitaria*: Sep.

**White Satin Moth** *Thalaina selenaea*: May.

**Clara Satin Moth** *Thalaina clara*: May.

**Bracken Moth** *Idiodes apicata*: Sep.

*Metrocampa biplaga*: Apr-May.

**Twig Looper** *Ectropis excusaria*: May.

**Bright Twisted Moth** *Parepisparis lutosaria*: Aug, Nov.

**Spring Taxeotis** *Taxeotis perlinearia*: Sep.

**Oval-spot Taxeotis** *Taxeotis stereospila*: Oct.

**Neat Epidesmia** *Epidesmia tryxaria*: Feb, Oct.

**Red-lined Geometrid** *Crypsiphona ocutaria*: Feb.

*Urolitha bipunctifera*: Jan-Feb.

**Golden-fringed Emerald** *Chlorocoma assimilis*: Sep.

**Cream Wave** *Scopula perlata*: Jan-Jun, Oct, Dec.

**Plantain Moth** *Scopula rubraria*: Jan, Oct-Dec.

**Mecynata Moth** *Chrysolarentia mecynata*: Jan, Mar-May, Jul, Aug-Nov.

**Finely-lined Carpet** *Chrysolarentia severata*: May.

**Sodaliata Moth** *Epyaxa sodaliata*: May-Jul, Sep.

**Subidaria Moth** *Epyaxa subidaria*: Apr.

**Apple Looper** *Phrissogonus laticostata*: Apr, Oct.

**Insigillated Carpet** *Chloroclystis insigillata*: Apr.

**Distorted Carpet** *Microdes villosata*: Feb.

**Red-spotted Delicate** *Epicyme rubropunctaria*: May, Oct.

## LASIOCAMPIDAE

**Banded Porela** *Porela vitulina*: Oct-Nov.

## ANTHELIDAE

**White-stemmed Gum Moth** *Chelepteryx collesi*: May.

**White-stemmed Wattle Moth** *Chelepteryx chalepteryx*: May.

## SPHINGIDAE

**Convolvulus Hawk Moth** *Agrius convolvuli*: Jan, Mar.

**Coprosma Hawk Moth** *Hippotion scrofa*: Jan, Mar-Apr, Dec.

#### LYMANTRIIDAE

**White Cedar Moth** *Leptocneria reducta*: Jan, Mar, Oct.

**White Tussock Moth** *Acyphas leucomelas*: Jan, Mar-Apr.

#### ARCTIIDAE

**Banded Lichen Moth** *Lyclene structa*: Jan-Feb, Apr, Nov.

**Spotted Lichen Moth** *Asura cervicalis*: Feb.

**Variable Halone** *Halone sejuncta*: Jan-Mar, Oct.

**Reticulated Footman** *Scaptosyle dichotoma*: May, Oct.

**Lichen-eating Caterpillar** *Manulea replana*: Mar-May.

**Heliotrope Moth** *Utethesia sp.*: Mar-Apr, Oct.

**Magpie Moth** *Nyctemera amicus*: Jan-May, Oct, Dec.

**Dark-spotted Tiger Moth** *Spilosoma canescens*: Oct, Dec.

**Crimson Tiger Moth** *Spilosoma curvata*: Jan, Mar, Aug.

**Tiger Moth** *Amata sp.*: Jan-Feb, Oct.

#### NOCTUIDAE

*Sandava scitisignata*: Mar-Apr.

*Calathusa mesospila*: Jan.

*Egone bipunctalis*: Jan.

*Pantylia sparsa*: Mar.

**Northern Old Lady Moth** *Dasypodia cymatodes*: Jan.

**Granny Moth** *Dasypodia selenophora*: Jan, Nov.

*Chrysodeixis subsidens*: Mar.

**Mistletoe Moth** *Comocrus behri*: Oct-Dec.

**Black Noctuid** *Neumichtis nigerrima*: May-Jun.

**Green-blotched Moth** *Cosmodes elegans*: Mar-Jun, Sep-Oct.

*Epicyrtrica docima*: Apr.

*Proteuxoa paragypsa*: Apr.

*Proteuxoa sanguinipuncta*: Mar.

*Elusa semipectin*: Jan, Mar.

**Bogong Moth** *Agrotis infusa*: May.

**Brown Cutworm** *Agrotis munda*: Apr, Oct.

**Variable Cutworm** *Agrotis porphyricollis*: Feb-Apr, Jun, Aug-Nov.

**Chevron Cutworm** *Diarsia intermixta*: Jan.

**Native Budworm** *Helicoverpa punctigera*: Jan-May, Sep-Dec.

## BUTTERFLIES

### HESPERIIDAE

**Splendid Ochre** *Trapezites symmomus*: Jan-Apr, Dec.

**Lilac Grass-skipper** *Toxidia doubledayi*: Dec.

**White-brand Grass-skipper** *Toxidia rietmanni*: Jan-Apr, Dec.

**White-banded Grass-dart** *Taractrocera papyria*: Feb-Mar, Dec.

**Narrow-brand Grass-dart** *Ocybadistes flavovittata*: Jan-Apr.

**Greenish Grass-dart** *Ocybadistes walkeri*: Feb, Apr-May, Dec.

**Orange Palm-dart** *Cephrenes augiades*: Jan.

### PAPILIONIDAE

**Macleay's Swallowtail** *Grampium macleayanus*: Mar-Apr.

**Orchard Swallowtail** *Papilio aegeus*: Jan-Apr, Oct-Dec.

**Dainty Swallowtail** *Papilio anactus*: Feb.

**Chequered Swallowtail** *Papilio demoleus*: Jan.

### PIERIDAE

**Imperial Jezebel** *Delias harpalyce*: Jan-Apr.

**Black Jezebel** *Delias nigrina*: Jan-Aug.

**Scarlet Jezebel** *Delias argenthona*: Apr.

**Spotted Jezebel** *Delias aganippe*: Oct, Dec.

**Yellow Albatross** *Appias paulina*: Dec.

**Caper White** *Belenois java*: Jan, Nov.

**Cabbage White** *Pieris rapae*: Jan-Dec.

### NYMPHALIDAE

**Dusky Knight** *Ypthima arctous*: Feb-Apr, Oct-Dec.

**Brown Ringlet** *Hypocysta metirius*: Jan-Apr, Sep, Dec.

**Varied Swordgrass Brown** *Tisiphone abeona*: Jan-Feb, Apr, Nov-Dec.

**Marbled Xenica** *Geitoneura klugii*: Mar.

**Forest Brown** *Argynnina cyrila*: Nov.

**Wonder Brown** *Heteronympha mirifica*: Dec.

**Common Brown** *Heteronympha merope*: Jan-May, Sep-Dec.

**Spotted Brown** *Heteronympha paradelpa*: Feb.

**Bank's Brown** *Heteronympha banksi*: Mar-Apr, Dec.

**Meadow Argus** *Junonia villida*: Jan-Jun, Sep-Dec.

**Australian Painted Lady** *Vanessa kershawi*: Jan-Apr, Sep-Dec.

**Yellow Admiral** *Vanessa itea*: Jan-Mar, May, Oct-Dec.

**Monarch** *Danaus plexippus*: Feb-May.

**Blue Tiger** *Tirumala hamata*: Jan-Feb.



## LYCAENIDAE

**Imperial Hairstreak** *Jalmenus evagoras*: Feb.

**Common Grass Blue** *Zizina labradus*: Jan-Jun, Sep-Dec.

## WASPS, BEES

**Blue-banded Bees** *Amegilla cingulata*: Jan-Apr.

**Black Flower Wasp** *Discolia sorsor*: Jan.

**Orange Caterpillar Parasite Wasp** *Netelia producta*: Jan, Apr-May, Oct-Dec.

**Spider Wasp** *Cryptocheilus bicolor*: Jan.

**Common Paper Wasp** *Polistes humilis*: Jan, May-Jun, Dec.

## OTHER INVERTEBRATES

### SPIDERS

Species of spider commonly recorded throughout the year:

**Huntsman** *Delena cancerides*

**White-tailed** *Lampona cylindrata*

**Black House** *Badumna insignis*

**Net-casting** *Deinopis subrufa*

**Red-back** *Latrodectus hasselti*

**St. Andrew's Cross** *Agriope keyserlingi*

**St. Andrew's Cross** *Agriope picta*

**Leaf-curling** *Phonognatha graeffei*

**Daddy Long-legs** *Pholcus phalangoides*

**Water Spider** *Dolomedes australiensis*

**Wheel-weaving Garden** *Eriophora transmarinas*

**Golden Orb-weaving** *Nephila* sp.

**Garden Wolf** *Lycosa godeffroyi*

**Little Striped Wolf** *Lycosa furcillata*

**Spiny** *Austrocantha minex*

**Two-spined** *Poecilopachys bispinosa*

**Flat Rock** *Hemiocloea major*

**Jumping** *Opisthonus* sp.

**Comb-footed** *Achaeearanea* sp.

**Two-tailed** *Tamopsis fickerti*

**Flower** *Diaea dorsata*

**Triangular** *Arkys clavatus*

**Single-thread Trap** *Argyrodes* sp.

**57th ANNUAL ASSESSMENT OF SHEARWATER  
BREEDING SUCCESS ON MONTAGU ISLAND,  
17–23 MARCH 2016**

Mike Crowley, Chris Davey, Peter J. Fullagar and David Priddel

The format of this report and the abbreviations used are consistent with those in previous annual reports (e.g. Davey *et al.* 2015). Montagu Island is divided into two parts by a steep gulch and a beach that is passable at all tides. We refer to these two portions as north island and south island. Replanting of the south island with taller vegetation, using plants known to have occurred on the island in the past, has occurred following systematic control of Kikuyu Grass *Pennisetum clandestinum*. This has been done progressively over the last 15 years across designated zones and these zones (numbered 1-9 or assigned as Asset A, B or C and Accidental) are used in this report for reference purposes. They are briefly described (condition in March 2013) and shown in a map in Fullagar *et al.* (2012). We often refer to the Kitchen Garden on south island (in zone 6) and to Pebbly Beach which is the large bay midway along the west side of north island.

Our shearwater colony study site on the SE side of the smaller northern part of Montagu Island (zone 9) is known as NISA (293 m<sup>2</sup>); the two study sites at the northern end of the southern part are known as SISA (428 m<sup>2</sup>) and THISA (293 m<sup>2</sup>), located at the N end of zone 8. The location of these study sites is shown in Fullagar & Heyligers (2006). The bird records for the island have been reviewed by Fullagar (1989) but many subsequent records have been included in annual reports (similar to this one) dating back to 1998. Names and taxonomic order of birds follow Christidis and Boles (2008); all other vertebrates follow Clayton *et al.* (2006). Names of butterflies follow Braby (2004) and moths follow Common (1990) while those of vascular plants follow those used by Heyligers and Adams (1989, 2004).

### **Survey Team**

This year's team comprised Peter Fullagar, Mike Crowley, Chris Davey and David Priddel (MIPartners); Lesley Priddel, Nicholas Carlile, Phil Kingston, Nick Nicholls and Penny Beaver.

## Weather and Habitat Conditions

We departed Narooma at 09:00 on 17 March, crossing to the island in a strong SE swell making for a fairly rough passage, although with little wind. The day continued fine with a light southerly breeze. On 18 March strong wind and showers stopped all work in the morning. Clearing conditions by noon allowed work in the afternoon without rain interruptions. On 19 March it was cool, clear with light southerly winds most of the day but wind strengthened towards evening with a heavy swell from the south.

For the rest of our visit strong southerly conditions prevailed with occasional light showers until 23 March when we returned to Narooma departing at 11:45 on a smooth sea with light winds in clear sunny conditions.

Monthly rainfall figures (mm) for the period April 2015 to March 2016 are as follows: 122.0, 57.6, 56.8, 104.0, 112.2, 51.6, 26.2, 81.0, 17.6, 178.0, 18.0 and 54.2 (up to 23 March).

The Spiny-headed Mat-rush *Lomandra longifolia* was in very good condition, lush and dense on all study plots. Intrusion of Scarlet Runner *Kennedia rubicunda* continues on SISA and on NISA, and Kikuyu Grass continues its spread on SISA along both the N and S borders. Kikuyu on this plot is now intruding to the limits seen in the past before herbicide was applied in 2003 (Fullagar & Heyligers 2006). Few other plants were noted on any study plot. However, Bracken *Pteridium esculentum* on SISA was mostly thick and lush on the S side. Coast Wattle *Acacia sophorae* is now spreading in many areas including the E side of south island and potentially may adversely affect all seabird species breeding on the island. Many vines are spreading extensively, including Scarlet Runner, Milk-vine *Marsdenia rostrata*, Coastal Morning Glory *Ipomoea cairica* and Common Dolichos *Dipogon lignosus*. Morning Glory is now very widespread on the W side south island from well north of the gulch at North Landing almost to South Landing.

A large water tank, with supply line from the well near the kitchen garden on south island, has been installed on the top of north island. A new track has been cut through the centre of the area burnt in 2001 (Accidental zone) on south island, giving access to the patch of Common Reed *Phragmites australis* near the site of the old stables, well and gardens just N of South Landing. An increasing network of tracks with dense coverage of mown Kikuyu Grass continues to be established on south Islands

## Coverage

We started work on THISA at 12:15 on 17 March and finished by 15:10, switching to SISA starting at 15:30 and working until 17:30. On 18 March we completed work on SISA starting at 13:45 and finishing at 17:00. We started work on NISA at 08:45 on 19 March and finished at 14:30. On 20 and 21 March we made casual observation on south island. On 22 March the perimeters of both islands were surveyed during the morning.

## Survey Results

### 1. Shearwaters

The results of this year's survey, together with those for 2015, are summarised in Table 1.

**Table 1. Number of shearwater chicks and burrows found in the three study sites in 2016 (2015 data in brackets), and totals for both years.**

	<i>NISA</i>	<i>THISA</i>	<i>SISA</i>	<i>Total 2016</i>	<i>Total 2015</i>
Wedge-tailed Shearwater	53 (40)	16 (11)	33 (20)	102	71
Short-tailed Shearwater	22 (11)	21 (16)	35 (30)	78	57
Sooty Shearwater	0 (0)	1 (0)	0 (0)	1	0
Number of burrows	146 (140)	77 (78)	163 (165)	386	383
Occupied burrows (%)	51 (36)	49(35)	42 (30)	47	33

For Wedge-tailed Shearwater the total number of chicks found on all sites was higher than last year and gave the second highest overall density figure for the 50 years since 1967.

Short-tailed Shearwaters continued to recover from the low productivity seen in 2014. One Sooty Shearwater chick was found on THISA.

As Table 1 shows, the number of burrows found was very similar to figures from 2015. The overall percentage of occupied burrows was high.

The average weight of Wedge-tailed Shearwater chicks this season was 495g (330–699g); the comparable figure for Short-tailed Shearwater was 629g (326–860g). Although lower than figures given for 2015 (see Davey *et al.* 2015) measurements this year were taken a week earlier. All chicks were in good condition.

## 2. Penguins

Nine landing sites on the south island were surveyed on 19 and 20 March, including 6 that were prime sites; eight on the W side and one on the E side of the island. Prime sites are those where the greatest numbers of penguins would land in the past. No penguins were seen arriving at any site between 18:30 and 20:15 and no birds were noted ashore on returning to the light station afterwards. We found no penguins ashore during the whole visit and no signs of recent moulting either in the many nest boxes we inspected or elsewhere. No Penguin was found on any of the shearwater study sites – something that frequently occurred in years past. Our records show that an adult was found on THISA in 2013 but before that the last time a penguin was found on any site was in 1999 when an adult in full moult was present on THISA.

## General Observations of Birds, Mammals, Reptiles and Lepidoptera BIRDS

Thirty-two species were recorded this year and ten eBird lists were submitted. See (<http://ebird.org/content/ebird/about/>).

**Brown Quail** *Coturnix ypsilophora*. Numerous on all parts of the island. Coveys of up to 12 birds seen in several places and we observed at least 70 individuals, although many more were likely to have been present.

**Bar-shouldered Dove** *Geopelia humeralis*. Seen most days with maximum of five. Always found near the plant nursery shed E of zone 7.

**White-faced Storm-Petrel** *Pelagodroma marina*. Surveys in 2015-16 of the known nesting area on the SW side of north island showed that, while the number of total burrows had increased since 2014, the number of active burrows is similar at approximately 50 pairs. The attachment of GLS data loggers in January 2016 will provide a good coverage of their movements around the island and their post-breeding migration, once recovered in 2016-17 (N. Carlile pers. comm.).

**Shy Albatross** *Thalassarche cauta*. Two adults seen E of the island late in the afternoon of 22 March.

**Wedge-tailed Shearwater** *Ardenna pacifica*, **Sooty Shearwater**, *A. grisea* and **Short-tailed Shearwater** *A. tenuirostris*. See Table 1 for this year's chick count. Few shearwaters seen at sea during the visit and most of those seen on the way to and from the island were Wedge-tailed Shearwaters.

**Gould's Petrel** *Pterodroma leucoptera*. Diurnal surveys in 2015-16 have indicated that the species is more widespread and numerous than previously thought with potentially 20 nesting locations now known. More intensive surveys are planned for 2016-17 (N. Carlile pers. comm.)

**Little Penguin** *Eudyptula minor*. Unusually, none seen ashore (see comments above under Survey Results).

**Australasian Gannet** *Morus serrator*. A few observed at sea most days.

**Great Cormorant** *Phalacrocorax carbo*. Twenty-three seen on 17 March but few seen on other days.

**White-faced Heron** *Egretta novaehollandiae*. Seen daily with maximum of 5 in the late evening on 17 March at the S end of south island (zone 3).

**Eastern Reef Egret** *Egretta sacra*. One seen on south island on 21 March.

**White-bellied Sea-Eagle** *Haliaeetus leucogaster*. Seen every day with maximum of two adults and 4 immature.

**Swamp Harrier** *Circus approximans*. One bird with conspicuous white rump patch seen daily.

**Nankeen Kestrel** *Falco cenchroides*. One juvenile seen daily.

**Peregrine Falcon** *Falco peregrinus*. A male seen 19, 22 and 23 March on north island. No signs of activity at nest site along cliff face E side of zone 9.

**Buff-banded Rail** *Gallirallus philippensis*. Few birds seen on south island. A juvenile present with adults near the kitchen garden (in zone 6). None observed on north island.

**Sooty Oystercatcher** *Haematopus fuliginosus*. Only one bird seen on the island.

**Crested Tern** *Thalasseus bergii*. Seen daily, with 130 on N end of north island among seals on 22 March and at least 300 roosting on the rocks W of Pebbly Beach until disturbed by an adult White-bellied Sea-Eagle on the morning of 23 March.

**Silver Gull** *Chroicocephalus novaehollandiae*. A few seen daily.

**Sacred Kingfisher** *Todiramphus sanctus* One in thickets on south island 20 and 22 March (zones 1, 5 & 6).

**Yellow-faced Honeyeater** *Lichenostomus chrysops*. Seen daily in thickets along W side of south island. Numbers not possible to assess.

**Golden Whistler** *Pachycephala pectoralis*. One calling from thickets on W side of south island on 21 March (S end of Accidental zone)

**Grey Fantail** *Rhipidura albiscapa*. One seen on 19 and 20 March in thickets on south island (zones 5 & 6).

**Australian Raven** *Corvus coronoides*. Three seen most days on south island. Seen flying to north island mid morning on 23 March before returning half an hour later.

**Leaden Flycatcher** *Myiagra rubecula* One seen on 21 March near kitchen garden on south island and again nearby early morning on 23 March (zone 6).

**Flame Robin** *Petroica phoenicea*. Two immature seen on 20 and 21 March in thickets on south island (zone 5 and Accidental).

**Golden-headed Cisticola** *Cisticola exilis*. Not vocal and difficult to detect, but a few seen on some days.

**Little Grassbird** *Megalurus gramineus*. Inconspicuous at this time of year, few seen.

**Silveryeye** *Zosterops lateralis*. Present on all days, mostly in the thickets along the W side of south island. Small flocks observed but numbers not possible to assess.

**Welcome Swallow** *Hirundo neoxena*. Seen daily. Minimum numbers estimated at 15.

## MAMMALS

**Seals.** A count on 22 March gave eight on the SW side of south island at South Landing (zone 2). On north island a total of 233 individuals was scattered along the shores between the headland S of Pebbly Beach and the N side of the island. Most were thought to be **Australian Fur Seal** *Arctocephalus pusillus*. The few seals on south island and a small number of those on the north island were probably **New Zealand Fur Seal** *A. forsteri*, some of which were situated far from the waterline in dense Kikuyu Grass.

## REPTILES

**White's Skink** *Ergenia whitii*. Observed occasionally.

**Grass Sun-skink** *Lampropholis guichenoti*. Observed occasionally.

## LEPIDOPTERA

**Dingy Grass-skipper** *Toxidia peron*. Both male and female seen.

**Cabbage White** *Pieris rapae*. Common and widespread across the whole island.

**Common Brown** *Heteronympha merope*. A few seen in the gulch between north and south island and along the W side of south island.

**Meadow Argus** *Junonia villida*. Two seen on 20 March near thickets on south island.

**Yellow Admiral** *Vanessa itea*. Two seen on 22 March; one at S end of south island and another at the Kitchen Garden.

**Long-tailed Pea-blue** *Lampides boeticus*. Seen commonly, often on Coast Rosemary *Westringia fruticosa*.

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FM      Field Meeting.

## Place Name Abbreviations.

BB	Batemans Bay.
BBWG	Batemans Bay Water Gardens.
BI	Bermagui.
BP	Burrewarra Point.
CO	Congo.
Com	Comerang.
DS	Durras.
DY	Dalmeny.
ERBG	Eurobodalla Regional Botanic Gardens.
MB	Mystery Bay.
MHN	Moruya Heads North.
MHS	Moruya Heads South.
MKS	Maulbrooks Road South, Moruya.
MO	Meringo.
MYA	Moruya.
NA	Narooma.
OMBS	Old Man Bed Swamp.
PDD	Percy Davis Drive, Broulee.
PP	Potato Point.
PS	Pedro Swamp.
SB	Surf Beach.
TS	Tuross.
WL	Wallaga Lake.
NP	National Park.
NR	Nature Reserve.
SF	State Forest.