

SYSTEMATIC LIST OF SPECIES OBSERVED

Taxonomy, sequence and nomenclature follow Distribution of Birds of the World by Sibley/Monroe including some recent taxonomic changes.

Species with an asterisk are endemic to PNG and adjacent islands

CASUARIIDAE : Cassowaries

Southern Cassowary *Casuarius casuarius* :

Fresh footprints were noted daily near Ekame Lodge.

PODICIPEDIDAE : Grebes

Australasian Grebe *Tachybaptus novaehollandiae* :

Single birds were seen on the Laloki River near the Kokoda Trail monument and at the Pacific Adventist University.

FREGATIDAE : Frigatebirds

Great Frigatebird *Fregata minor* :

A female was seen in a group of **Lesser Frigatebirds** *F. ariel* at Hisiu mangroves.

Lesser Frigatebird *Fregata ariel* :

6 were seen at Lea Lea and 23 at Hisiu mangroves.

PHALACROCORACIDAE : Cormorants

Little Black Cormorant *Phalacrocorax sulcirostris* :

At least 40 were seen at the Pacific Adventist University and in the Laloki River valley.

2 were noted on the Laloki River near the Kokoda Trail Monument and at least 60 were seen along the Hiritano Highway

Little Pied Cormorant *Phalacrocorax melanoleucos* :

Up to 5 were seen at the Pacific Adventist University and 16 were seen along the Hiritano Highway.

ANHINGIDAE : Darters

Australian Darter *Anhinga novaehollandiae* :

3 were seen at the Pacific Adventist University, 4 over Hisiu mangroves and a single bird was noted soaring over Varirata National Park.

SULIDAE : Boobies

Brown Booby *Sula leucogaster* :

A single bird was seen at Lea Lea.

ARDEIDAE : Herons

Great Egret *Casmerodius alba* :

Up to 7 were seen daily along the Elevala River, 3 were noted on the new rice fields in the Laloki River valley, 5 were seen at the Pacific Adventist University, up to 3 at Jackson's Airport, Port Moresby and at least 10 were seen along the Hiritano Highway.

Pied Heron *Egretta picata* :

Up to 8 were seen on the new rice fields in the Laloki River valley.

Intermediate Egret *Egretta intermedia* :

Single birds were seen at the Pacific Adventist University and at Hisiu mangroves.

Little Egret *Egretta garzetta* :

2 were noted on the new rice fields in the Laloki River valley and at the Pacific Adventist University and a single bird was seen along the Elevala River.

Cattle Egret *Bubulcus ibis* :

At least 70 were seen daily in the Laloki River valley, at least 30 were seen at the Pacific Adventist University, and up to 100 were seen daily at Jackson's Airport, Port Moresby.

White-faced Heron *Egretta novaehollandiae* :

A single bird was seen at the roadside boundary of Jackson's Airport, Port Moresby.

Pacific Reef Heron *Egretta sacra* :

2 were seen at Lea Lea.

Striated Heron *Butorides striata*:

A single bird was seen along the Elevala River and 2 were seen at Hisiu mangroves.

Rufous Night-Heron *Nycticorax caledonicus* :

10 were seen at the Pacific Adventist University and single birds were seen flying over Jackson's Airport, Port Moresby, on two occasions.

THRESKIORNITHIDAE: Ibises and Spoonbills

Australian White Ibis *Threskiornis molucca* :

Up to 10 were seen at the Pacific Adventist University, 3 in the Laloki River valley and 3 were noted along the Hiritano Highway.

DENDROCYGNIDAE : Whistling-ducks

Spotted Whistling Duck *Dendrocygna guttata* :

16 were seen in their preferred roost trees near the sewage settling ponds at the Pacific Adventist University.

Wandering Whistling Duck *Dendrocygna arcuata* :

40 were seen at the Pacific Adventist University.

ANATIDAE : Ducks, Geese and Swans

Green Pygmy-Goose *Nettapus pulchellus* :

A single female was seen at the Pacific Adventist University.

* **Salvadori's Teal** *Salvadorina waigiuiensis* :

2 were seen on the river at Ok Menga.

Pacific Black Duck *Anas superciliosa* :

At least 80 were seen at the Pacific Adventist University, 8 were seen at Mt Hagen Airport and 14 were seen at Lea Lea.

ACCIPITRIDAE : Hawks, Eagles and Allies

Osprey *Pandion haliaetus* :

A single bird was seen at Lea Lea.

Pacific Baza (Crested Hawk) *Aviceda subcristata* :

Up to 3 were seen daily along the Pipeline road, Kikori.

Up to 5 were seen daily along the Elevala River.

* **Long-tailed Buzzard** *Henicopernis longicauda* :

Up to 3 were seen along the Elevala River, 2 were seen at Varirata National Park, 2 were noted between K120 and Tabubil and a single bird was seen at daily at Dablin Creek, Tabubil.

Black Kite *Milvus migrans* :

At least 15 were seen between Mt Hagen and Kumul Lodge and 6 at Mt Hagen airport.

Up to 15 daily in the Kumul Lodge area .

Single birds were seen in the Laloki River valley and at Jackson's Airport, Port Moresby.

Whistling Kite *Haliastur sphenurus* :

3 were seen at the Pacific Adventist University and 8 were seen at Hisiu mangroves.

Single birds were seen along the Elevala River and along the Boystown road near Kiunga..

Brahminy Kite *Haliastur indus* :

Regularly encountered in the lowlands with up to 8 seen in the Laloki River valley and along the Elevala River and smaller numbers were noted elsewhere. 4 were seen in the Tabubil area. In the highlands, single birds were noted near Kumul Lodge and Warili Lodge.

White-bellied Sea-Eagle *Haliaeetus leucogaster* :

An adult bird was seen along the Elevala River.

*** Papuan Harrier** *Circus spilothorax* :

2 'ringtails' and a male were seen at Mt Hagen Airport,

2 ringtails (probably immatures) were seen in the grasslands at Lea Lea,

An adult male was seen briefly along the Hiritano Highway.

A ringtail and an adult male were seen on separate occasions at Myola.

Variable Goshawk *Accipiter novaehollandiae* :

2 were seen along the Pipeline road, Kikori.

Single birds were noted at Varirata National Park, Dablin Creek, Tabubil, at K120 near Tabubil, along the Elevala River, along the Boystown road near Kiunga and along the Hiritano Highway.

*** Black-mantled Goshawk** *Accipiter melanochlamys* :

Adult birds were seen on two occasions, once in flight over the bailey bridge and it or another gave us excellent views in the scope as it posed in a tree at Tari Gap.

*** Grey-headed Goshawk** *Accipiter poliocephalus* : Single adult birds were seen along the Boystown road near Kiunga which gave excellent views in the scope as it perched nearby and one was seen in flight as it cruised along the Elevala River.

Collared Sparrowhawk *Accipiter cirrhocephalus* :

Single birds were seen at Varirata National Park, near the Ambua Lodge entrance and at Myola.

*** Doria's Hawk** *Megatriorchis doriae* :

An adult bird and recently fledged, vocal juvenile gave us great views, both perched and in flight, at Dablin Creek.

Gurney's Eagle *Aquila gurneyi* :

Distant views of an adult bird at Varirata National Park.

Little Eagle *Hieraaetus morphnoides* :

Single birds were seen at Varirata National Park and Myola.

FALCONIDAE : Falcons**Brown Falcon** *Falco berigora* :

A nesting pair were seen daily at Myola.

Australian Kestrel *Falco cenchroides* :

A single bird was seen near Lea Lea.

Australian Hobby *Falco longipennis* :

Single birds were seen near the roadside boundary of Jackson's Airport, Port Moresby and at Kopi Camp, Kikori.

MEGAPODIIDAE : Megapodes**Orange-footed Megapode** *Megapodius reinwardt* :

A single bird was seen briefly by the side of the Pipeline road, Kikori.

6 were seen at Hisiu mangroves and calling birds were heard daily at Myola.

*** Black-billed Brush Turkey** *Talegalla fuscirostris* : (H)

Calling birds were heard at Varirata National Park, along the Pipeline road, Kikori, along the Elevala River and along the Boystown road near Kiunga.

PHASIANIDAE : Quail, Pheasants and allies**Brown Quail** *Coturnix australis* :

6 were seen at Tari Gap.

Blue-breasted Quail *Coturnix chinensis* :

4 single birds were seen in the grasslands at Myola.

TURNICIDAE : Button -quail

Red-backed Button-quail *Turnix maculosa* :

A single bird was flushed twice in the grasslands at Lea Lea.

RALLIDAE : Rails

Buff-banded Rail *Gallirallus philippensis* :

A single bird was seen on the road near Warili Lodge.

Lewin's Rail *Rallus pectoralis* :

Twice I observed a bird in the swampy patch near our accommodation at Myola

* **Chestnut Forest-Rail** *Rallina rubra* :

A pair was seen on a forest trail below Kumul Lodge and a male was seen in the orchid garden nearby. On both occasions the birds reacted strongly to playback of a taped call, giving us excellent views down to a couple of metres. 1 bird actually walked over my shoe!!

Red-necked Rail *Rallina tricolor* :

A single bird flew over the main track at Dablin creek.

White-browed Crake *Porzana cinerea* :

A single bird was seen on two consecutive visits to the Pacific Adventist University.

Spotless Crake *Porzana tabuensis* :

Many sightings involving at least 2 adults were obtained daily at the 'crake patch' near our accommodation at Myola.

* **New Guinea Flightless Rail** *Megacrex inepta* :

Whilst watching a displaying male Twelve-wired Bird of Paradise *Seleucidis melanoleuca* along the Pipeline road, Kikori, a pair of these amazing birds wandered out of the roadside vegetation and plodded around, giving us great 'scope views. At times, both birds held their tiny wings up like sails. With long, heavy black legs looking like fisherman's waders and large conical, yellow bills, these great rarities further enhanced their strangeness by flexing up their tiny, flightless wings like sails. After about a minute, the 'kianis' melted back into the swamp forest leaving ten birders stunned but very happy.

Dusky Moorhen *Gallinula tenebrosa* :

At least 16 were seen at the Pacific Adventist University.

Purple Swamphen *Porphyrio porphyrio* :

At least 20 were seen at the Pacific Adventist University, at least 10 were seen on the new rice fields in the Laloki River valley and along the Hiritano Highway and 3 were noted near the Kokoda Trail Monument.

JACANIDAE : Jacanas

Comb-crested Jacana *Irediparra gallinacea* :

6 were seen at the Pacific Adventist University.

CHARADRIIDAE : Lapwings and Plovers

Masked Lapwing *Vanellus miles* :

At least 5 were seen at the Pacific Adventist University, at Jackson's Airport, Port Moresby and in the Laloki River valley.

Pacific Golden Plover *Pluvialis fulva* :

3 were seen at Hisiu beach.

* **Papuan Ringed Plover** *Charadrius papuanus*

2 birds were seen at K120 en-route to and from Tabubil from Kiunga.

Proposed split from **Little Ringed Plover** *Charadrius dubius*. Leg and eye ring colours differ from the migrant race *curonicus* of Little Ringed Plover and as the voices differ too there is every reason to assume that this is a valuable species.

Greater Sand-Plover *Charadrius lescenaultii* :

2 were seen at Hisiu beach

SCOLOPACIDAE : Sandpipers, Snipes and Allies

Eastern Curlew *Numenius madagascariensis* :

5 were seen at Lea Lea and a single bird was seen at Hisiu beach.

Whimbrel *Numenius phaeopus* :

2 were seen at Lea Lea and at Hisiu beach.

Common Sandpiper *Tringa hypoleucos* :

A single bird was seen at Hisiu beach.

LARIDAE : Gulls and Terns

Gull-billed Tern *Gelochelidon nilotica* :

A single bird was seen on Hisiu beach.

Common Tern *Sterna hirundo* :

A single bird was seen at Lea Lea.

Crested Tern *Sterna bergii* :

2 were seen at Lea Lea and 4 at Hisiu beach.

COLUMBIDAE : Pigeons and Doves

Rock Pigeon *Columba livia* :

8 multicoloured specimens of this unwelcome feral species were seen at Jackson's Airport, Port Moresby.

Slender-billed (Brown) Cuckoo-Dove *Macropygia amboinensis* :

This widespread species was seen in all of the lowland and foothill localities we visited.

Best counts were at least 6 in Varirata National Park and at Dablin Creek, Tabubil,

4 at Tapuka quarry and along the Boystown road near Kiunga and 3 along the Elevala River.

* **Black-billed Cuckoo-Dove** *Macropygia nigrirostris* :

4 were seen at Kwinyank village along the Wabag road below Kumul Lodge.

2 were seen at Kumul Lodge, 3 at Myola and singles were noted at the bailey bridge/Tari Gap.

Great Cuckoo-Dove *Reinwardtoena reinwardtii* :

2 were seen at K17; single birds were seen daily along the Pipeline road near Kikori.

Others were seen at Ok Ma and Varirata National Park.

Emerald Dove *Chalocphaps indica* :

Single birds were seen at the Pacific Adventist University and at Varirata National Park.

Peaceful Dove *Geopelia placida* :

At least 20 were seen near the Kokoda Trail Monument, 8 at the Pacific Adventist University and 5 were seen at Hisiu mangroves.

Bar-shouldered Dove *Geopelia humeralis* :

4 were seen at the Pacific Adventist University, 2 at Lea Lea and at least 20 were seen around the Hisiu mangroves.

* **Bronze Ground-Dove** *Gallicolumba beccari* :

An adult bird was seen on my last morning at Myola. Very good views, as the bird was foraging unconcerned on the forest floor at close range.

* **Pheasant Pigeon** *Otidiphaps nobilis* :

A calling bird was noted at Ok Ma, Tabubil.

* **Southern Crowned Pigeon** *Goura scheepmakeri* .:

2 were seen perched in trees along the Elevala River above Ekame Lodge giving us great views. Another was flushed from the same area, flying downriver with typical thundering wingbeats. Calling birds were also heard each morning near the Lodge. A truly spectacular species and a major highlight of the trip.

* **Wompoo Fruit-Dove** *Ptilinopus magnificus* :

1 or 2 were seen daily in the Ekame Lodge area and a single bird was seen along the Boundary track in Varirata National Park.

Calling birds were noted daily along the Pipeline road, Kikori.

* **Pink-spotted Fruit-Dove** *Ptilinopus perlatus* :

At least 30 of this attractive species were seen in Varirata National Park.

At least 10 at K17 and 4 were seen at Dablin Creek, Tabubil..

* **Ornate Fruit-Dove** *Ptilinopus ornatus* :

A single bird was seen in in Varirata National Park.

* **Orange-fronted Fruit-Dove** *Ptilinopus aurantiifrons* :

A single bird was at the Pacific Adventist University and 2 were seen at Hisiu mangroves.

* **Superb Fruit-Dove** *Ptilinopus superbus* :

1 or 2 were seen daily along the Pipeline road, Kikori.

2 were seen along the Elevala River and a single bird was noted at K17 near Kiunga.

* **Coroneted Fruit-Dove** *Ptilinopus coronulatus* :

Single birds were seen daily in fruiting trees along the Pipeline road, Kikori.

* **Beautiful Fruit-Dove** *Ptilinopus pulchellus* :

2 were seen along the Pipeline road, Kikori and at Dablin creek, Tabubil.

A single bird was noted along the Elevala River.

* **White-breasted Fruit-Dove** *Ptilinopus rivoli* :

6 were seen between Benson's trail and Tari Gap.

* **Orange-bellied Fruit-Dove** *Ptilinopus iozonus* :

Up to 10 were seen in Varirata National Park, 4 along the Elevala River, 2 at K17 and 4 along the Boystown road near Kiunga.

* **Dwarf Fruit-Dove** *Ptilinopus nanus* :

2 were seen along the Pipeline road, Kikori.

* **Purple-tailed Imperial Pigeon** *Ducula rufigaster* :

4 were seen along the Pipeline road, Kikori and 3 others were seen there the following day.

* **Pinon Imperial Pigeon** *Ducula pinon* :

Up to 30 were seen on most days along the Pipeline road, Kikori

At least 15 were seen along the Elevala River with 2 noted at K17 and along the Boystown road near Kiunga.

* **Collared Imperial Pigeon** *Ducula muellerii* :

Out of the hundreds of distant Imperial Pigeons that were seen along the Elevala River, about 75 were confidently identified as this species.

* **Zoe Imperial Pigeon** *Ducula zoeae* :

1 or 2 were seen daily along the Pipeline road, Kikori, 2 were seen along the Boystown road and a single bird was noted at K17 near Kiunga.

Torresian Imperial Pigeon *Ducula spilorrhoa* :

At least 10 were seen flying over the Aroa/Hisiu mangroves area, 5 were seen at the Pacific Adventist University and single birds were seen twice near Kikori.

Papuan Mountain Pigeon *Gymnophaps albertisii* :

At least 50 were seen over the Boystown road near Kiunga.

At least 40 were noted daily in the Tari valley and at least 30 were seen over the Elevala River with smaller numbers of overflying birds.

CACATUIDAE : Cockatoos

Palm Cockatoo *Probosciger aterrimus* :

Up to 6 were seen daily along the Elevala River. Some great views of perched birds.

3 were seen along the Boystown road near Kiunga.

A single bird was seen along the Pipeline road, Kikori.

Sulphur-crested Cockatoo *Cacatua galerita* :

Up to 8 were seen daily along the Elevala River and in Varirata National Park.

Up to 6 were seen daily along the Pipeline road, Kikori.

Single birds were noted at K17 and at Dablin creek near Tabubil.

PSITTACIDAE : Parrots

*** Greater Streaked Lory** *Chalcopsitta scintillata* :

Up to 30 were seen daily along the Pipeline road, Kikori.

12 were seen at Ok Ma near Tabubil.

Up to 6 were seen daily along the Elevala River.

Rainbow Lorikeet *Trichoglossus haematodus* :

At least 16 of this noisy species were seen feeding in a flowering tree at the Pacific Adventist University.

Up to 10 were seen along the Hiritano Highway, 6 were seen at Ok Menga, Tabubil and up to 4 were seen in Varirata National Park and near the Kokoda Trail Monument, Sogeri.

*** Goldie's Lorikeet** *Psitteuteles goldei* :

At least 50 were seen at Kumul Lodge.

At least 40 were seen at Tari Gap and at least 40 were seen daily at Myola when entering or leaving their roost in a cluster of *Pandanus* trees.

*** Black-capped Lory** *Lorius lory* :

Up to 6 were seen in Varirata National Park, 20 along the Pipeline road, Kikori, 8 along the Elevala River, 4 at Ok Ma, Tabubil and 2 were noted at K17 near Kiunga.

Red-flanked Lorikeet *Charmosyna placentis* :

Remarkably scarce this visit; near Kiunga we only saw 4 at K17.

15 along the Boystown road. 10 at Dablin creek, Tabubil were our only other sightings.

*** Little Red Lorikeet** *Charmosyna pulchella* :

5 flew over Dablin creek, Tabubil.

*** Papuan Lorikeet** *Charmosyna papou* :

Up to 8, mostly dark-phase birds, were seen daily around Kumul Lodge.

Up to 4 red-phase were seen between the bailey bridge and Tari Gap.

*** Plum-faced Lorikeet** *Oreopsittacus arfaki* :

These endearing creatures proved to be rather scarce this visit with only 2 seen daily at Kumul Lodge and up to 7 daily between the bailey bridge and Tari Gap.

*** Yellow-billed Lorikeet** *Neopsittacus musschenbroekii* :

At least 8 were seen feeding along the entry road to Ambua Lodge, 4 were seen along Steven's trail near Warili Lodge and 2 were seen along the Benari road.

* **Orange-billed Lorikeet** *Neopsittacus pullicauda* :

5 seen near the bailey bridge below Tari Gap were our only sightings of this species.

* **Pesquet's (Vulturine) Parrot** *Psittatrachus fulgidus* : Considered vulnerable by birdlife Int. Up to 8 of these magnificent parrots were seen daily along the Pipeline road, Kikori and a single bird was seen perched high on a distant ridge from K120 near Tabubil.

* **Buff-faced Pygmy-Parrot** *Micropsitta pusio* :

2 were seen on two occasions, three weeks apart, at diametrically opposite points along the Boundary track in Varirata National Park.

* **Yellow-capped Pygmy-Parrot** *Micropsitta keiensis* :

2 gave good perched views along the Pipeline road, Kikori.

* **Orange-breasted Fig-Parrot** *Cyclopsitta gulelmiterti* :

Up to 8 were seen daily along the Pipeline road, Kikori.

4 were seen daily at Dablin creek, Tabubil.

Double-eyed Fig-Parrot *Cyclopsitta diophthalma*:

2 were seen along the Boystown road near Kiunga.

* **Large Fig-Parrot** *Psittaculirostris desmarestii* :

4 single birds were seen over the Elevala River.

* **Brehm's Tiger-Parrot** *Psittacella brehmii* :

Up to 3 birds, a male and 2 females, gave us exceptional views as they fed in the grounds of Kumul Lodge, on several occasions. A male and female were also attracted to the fruit put out on the feeders by the Lodge staff, giving great views from the balcony.

Single birds were also seen at the bailey bridge and Tari Gap.

* **Madarasz's Tiger-Parrot** *Psittacella madaraszii* :

An immature bird was seen in the grounds of Ambua Lodge feeding in a fruiting tree.

Red-cheeked Parrot *Geoffroyus geoffroyi* :

At least 6 were seen daily in Varirata National Park, 2 at the Pacific Adventist University and up to 4 were seen daily along the Pipeline road, Kikori.

At least 5 were seen at K17 and along the Boystown road, Kiunga.

Up to 6 were seen daily along the Elevala River.

At least 10 were seen at Hisiu mangroves.

* **Blue-collared Parrot** *Geoffroyus simplex* :

Totals of 15 were heard and eventually seen flying over Dablin creek, Tabubil. on two consecutive days.

A single bird was also noted flying high over the Benari road, Tari valley.

Typically distant dot-like views of this enigmatic species; does it ever perch?

Eclectus Parrot *Eclectus roratus* :

Rather scarce this visit with only 2 seen daily along the Pipeline road, Kikori.

Up to 8 daily along the Elevala River. 3 were noted along the Boystown road, 2 at K17 near Kiunga and single birds were seen at Dablin creek and Ok Ma near Tabubil.

* **Papuan King Parrot** *Alisterus chloropterus* :

A really good showing this trip with 4 seen along Steven's trail below Warili Lodge and another by the Lodge itself.. A single bird was also seen along the Pipeline road, Kikori.

CUCULIDAE : Cuckoos

Brush Cuckoo *Cacomantis variolosus* :

Heard much more often than seen in the foothills and lowlands.

Single birds were seen on two occasions along the Pipeline road, Kikori and another was seen at Kwinyank village along the Wabag road below Kumul Lodge.

Chestnut-breasted Cuckoo *Cacomantis castaneiventris* : (H)

Single birds were heard calling in Varirata National Park and at Dablin creek, Tabubil.

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

Single birds were seen at Tari Gap and at Myola.

* **Long-billed Cuckoo** *Rhamphomantis megarhynchus* :

A male was seen twice along the Pipeline road, Kikori.

* **Rufous-throated Bronze-Cuckoo** *Chrysococcyx ruficollis* :

A single bird was seen by Karl and Ottie at Kumul Lodge. Calling birds were also noted near Ambua Lodge and at Myola.

* **White-eared Bronze-Cuckoo** *Chrysococcyx meyerii* :

Single birds were seen daily at Dablin creek, Tabubil.

* **White-crowned Koel** *Caliechthrus leucolophus* :

Single birds were seen on two occasions along the Pipeline road, Kikori.

One was also heard calling along the Benari road in the Tari valley.

* **Dwarf Koel** *Microdynamis parva* :

A female was seen on consecutive days in a fruiting tree at Dablin creek, Tabubil.

A calling bird was also noted along the Boystown road, Kiunga.

Australian Koel *Eudynamis cyanocephala* :

Up to 3 were seen daily along the Elevala River and a female was seen at K17 near Kiunga.

Common Koel *Eudynamis scolopacea* :

A male and later a female were seen along the Pipeline road, Kikori.

A female was also seen in Varirata National Park.

Channel-billed Cuckoo *Scythrops novaehollandiae* :

5 were seen along the Elevala River and from the Ekame Lodge.

CENTROPODIDAE : Coucals

* **Greater Black Coucal** *Centropus menbeki* : (H)

Calling birds were noted daily along the Elevala River.

* **Lesser Black Coucal** *Centropus bernsteini* :

A single bird was seen by me along the Pipeline road, Kikori.

Pheasant Coucal *Centropus phasianus* :

Up to 3 were seen daily along the Laloki Rivervalley.

6 were also seen along the Hiritano Highway.

TYTONIDAE : Barn Owls

Greater Sooty Owl *Tyto tenebricosa* :

A single bird was spotlighted at Ekame Lodge.

A calling bird was noted on two nights at Myola.

A bird purchased by Steven Wari from local boys in Tari was released at Warili Lodge. Apparently one bird of the pair was killed, the other caught. It is not yet known if these were the pair that gave so many visitors the pleasure of seeing them at their tree-hole nest at Alukambe village in the Tari valley.

STRIGIDAE : Typical Owls

* **Papuan Boobook** *Ninox theomacha* :

A single bird was seen by me near Ekame Lodge.

Others were heard at Ok Ma, Tabubil, near Ekame Lodge and near Warili Lodge each night.

AEGOTHELIDAE : Owlet-nightjars

* **Feline Owlet-nightjar** *Aegotheles insignis* : (H)

A calling bird was heard at Myola.

* **Barred Owlet-nightjar** *Aegotheles bennetti* :

Excellent views of one at its daytime roost near the main picnic area in Varirata NP.

* **Mountain Owlet-nightjar** *Aegotheles albertisi* :

One flew in through the window of Max's car near Kumul Lodge and was caught by hand. The bird was shown to all the visitors and then released safely in the garden.

The same evening I spotlighted one together with the local guide John near Kumul Lodge which perched low down in a bush and gave perfect, close views.

Another was seen daily at its daytime roost in a tree hole at Myola giving us excellent views.

PODARGIDAE : Frogmouths

Marbled Frogmouth *Podargus ocellatus* :

At least 5 were seen along the Pipeline road between Kopi and Kikori and at least 4 were seen the following night. This is an astonishing sequence of sightings.

Another bird was seen at roost near Ekame Lodge and more typically one was also heard calling at Ekame Lodge.

Papuan Frogmouth *Podargus papuensis* :

3 were seen at roost at the Pacific Adventist University and 2 again there the following day.

CAPRIMULGIDAE : Nightjars

* **Papuan Nightjar** *Eurostopodus papuensis* :

A single bird was seen shortly after dark along the Elevala River giving excellent views in the spotlight.

* **Archbold's (Mountain) Nightjar** *Eurostopodus archboldi* :

A single bird was spotlighted shortly after 1900hrs on two occasions at Kumul Lodge giving us excellent perched views in the spotlight.

Large-tailed Nightjar *Caprimulgus macrurus* :

2 were seen on the road between Warili Lodge and Benari road and single birds were seen along the Benari road, Kiunga and along the entrance road to Varirata National Park.

APODIDAE : Swifts

* **Mountain Swiftlet** *Collocalia hirundinacea* :

At least 15 were seen daily over Warili Lodge and over the grasslands beyond Tari Gap.

2 were noted over Kwinyank village along the Wabag road below Kumul Lodge.

Up to 10 were observed one day at Myola.

Glossy Swiftlet *Collocalia esculenta* :

Common in most of the locations visited with up to 40 seen daily at Varirata National Park, up to 50 seen daily along the Pipeline road, Kikori, up to 15 at Kumul Lodge, up to 15 in the Ambua Lodge to Tari Gap area and at least 60 were seen daily at Myola.

Uniform Swiftlet *Collocalia vanikorensis* :

This swiftlet was seen throughout the lowland and foothill areas visited, with up to 100 daily along the Pipeline road, Kikori, up to 50 daily over Dablin creek, Tabubil and smaller numbers noted in other locations.

* **Papuan Needletail** *Mearnsia novaeguineae* :

Up to 30 daily along the Pipeline road, Kikori.

Up to 6 were seen daily along the Elevala River.

HEMIPROCINIDAE : Tree-swifts

Moustached Tree-swift *Hemiprocne mystacea* :

2 were seen along the Pipeline road, Kikori.

Up to 7 were seen daily on power wires near Tabubil.

Up to 6 were seen daily along the Elevala River.

ALCEDINIDAE : Small Kingfishers

Common (River) Kingfisher *Alcedo atthis* :

Single birds were seen on the Laloki River, Sogeri and at the Pacific Adventist University.

Azure Kingfisher *Alcedo azurea* :

A single bird was seen on the river by the ford along the entrance road to Varirata N.P.

Little Kingfisher *Alcedo pusilla* :

A single bird was seen at Hisiu mangroves.

HALCYONIDAE : Tree Kingfishers*** Rufous-bellied Kookaburra** *Dacelo gaudichaud* :

1 or 2 of these impressive birds were seen daily along the Pipeline road, Kikori.

2 were seen at K17 and a single bird was noted at Ok Ma, Tabubil.

Blue-winged Kookaburra *Dacelo leachii* :

1 or 2 were seen daily in or near Varirata National Park.

2 were seen near Lea Lea and a single bird was noted at Hisiu mangroves.

Collared Kingfisher *Halcyon chloris* :

8 were seen at Hisiu mangroves.

Sacred Kingfisher *Halcyon sancta* :

3 were seen in the Laloki River valley and 2 were seen at the Pacific Adventist University.

Up to 5 were seen daily along the Elevala River.

4 at Ok Menga and 6 were seen at Hisiu mangroves.

*** Hook-billed Kingfisher** *Melidora macrorrhina* :

One of these spectacular birds was eventually seen along the Elevala River. Fantastic, prolonged views in the scope.

Calling birds were also noted each night near Ekame Lodge and once along the Boystown road near Kiunga.

*** Shovel-billed Kingfisher** *Clytoceyx rex* :

A very tape-responsive bird was spotlighted at Ok Ma, Tabubil.

A week later Ashley Banwell found and photographed in most likely the same area along the Ok Ma road, a bird at a nest site. See; www.Worldbirding.com

Up to 3 birds were heard calling pre-dawn at Myola but they were too distant to be lured by the tape.

Yellow-billed Kingfisher *Halcyon torotoro* :

A single bird gave us great views at Varirata National Park.

Calling birds were also noted near Ekame Lodge and at Hisiu mangroves.

*** Mountain Kingfisher** *Halcyon megarhyncha* :

One responded almost immediately to a taped call at Dublin creek, Tabubil giving us excellent views. Others were heard calling along the Benari road and near Warili Lodge.

*** Lesser Paradise-Kingfisher** *Tanysiptera hydrocharis* :

This rare species proved difficult but single birds were eventually seen well near Ekame Lodge on two consecutive days.

Common Paradise-Kingfisher *Tanysiptera galatea* :

A single bird was seen well near Ekame Lodge.

*** Brown-headed Paradise-Kingfisher** *Tanysiptera danae* :

4 birds were seen along the Boundary track in Varirata National Park.

MEROPIDAE : Bee-eaters**Rainbow Bee-eater** *Merops ornatus* :

Up to 30 were seen daily along the entrance road to Varirata National Park.

At least 15 were noted at Hisiu mangroves.

5 were noted at Kwinyank village along the Wabag road below Kumul Lodge.

CORACIIDAE : Rollers**Dollarbird** *Eurystomus orientalis* :

Seen at most of the lowland and foothill sites visited with at least 70 seen daily along the Elevala River. At least 7 were seen along the Hiritano Highway and 1 to 4 elsewhere.

BUCEROTIDAE : Hornbills

Blyth's Hornbill *Rhyticeros plicatus* :

Up to 20 were seen daily along the Elevala River.

Up to 5 were seen daily along the Pipeline road, Kikori.

PITTIDAE : Pittas

Hooded Pitta *Pitta sordida* :

4 were seen in total along the Elevala River.

Calling birds were also noted along the Pipeline road, Kikori and along the Boystown road, near Kiunga.

Red-bellied (Blue-breasted) Pitta *Pitta erythrogaster* :

2 were seen near Ekame Lodge.

One was heard calling at Ok Ma, Tabubil.

ALAUDIDAE : Larks

Australasian (Singing) Bushlark *Mirafra javanica* :

5 were seen on burnt ground by Jackson's Airport, Port Moresby.

3 were seen at Lea Lea.

At least 10 were seen around the airstrip margins at Jackson's Airport/PNG terminal.

HIRUNDINIDAE : Swallows and Martins

Pacific Swallow *Hirundo tahitica* :

Small numbers were seen at all the lowland and mid-montane localities we visited with at least 10 noted daily in the Laloki River valley, 5 at Mt Hagen Airport and 2 daily at Myola.

Tree Martin *Hirundo nigricans* :

6 were seen at Hisiu mangroves.

MOTACILLIDAE : Wagtails and Pipits

Australian Pipit *Anthus australis* :

2 were seen at Mendi Airport and a single bird was seen at Mt Hagen Airport.

CAMPEPHAGIDAE : Cuckoo-shrikes

Black-faced Cuckoo-shrike *Coracina novaehollandiae* :

At least 30 were seen daily along the entrance road to Varirata National Park.

At least 10 were seen en route to Lea Lea.

15+ were seen along the Hiritano Highway.

***Stout-billed Cuckoo-shrike** *Coracina caeruleo-grisea* :

Pairs were seen at Dablin creek, Tabubil, at Ok Ma, Tabubil and in Varirata National Park.

Yellow-eyed Cuckoo-shrike *Coracina lineata* :

Up to 3 were seen daily in Varirata National Park.

*** Boyer's Cuckoo-shrike** *Coracina boyeri* :

2 were seen daily near the main picnic area in Varirata National Park.

2 were also seen along the Pipeline road, Kikori and along the Boystown road, Kiunga.

White-bellied Cuckoo-shrike *Coracina papuensis* :

Surprisingly scarce this visit with 3 at the Pacific Adventist University and a single bird there the following day, being our only sightings.

*** Hooded Cuckoo-shrike** *Coracina longicauda* :

A pair was seen near Ambua Lodge.

Common Cicadabird *Coracina tenuirostris* :

A single female in Varirata National Park was our only sighting.

Black-shouldered Cuckoo-shrike *Coracina incerta* :

2 were seen at Ok Ma, Tabubil and a single bird was seen at Dablin creek, Tabubil.

* **Grey-headed Cuckoo-shrike** *Coracina schisticeps* :

Up to 8 were seen daily along the Pipeline road, Kikori.

Up to 4 were seen daily at Dablin creek, Tabubil, Ok Ma, Tabubil and along the Elevala River.

2 were also noted at K17 near Kiunga.

* **New Guinea Cuckoo-shrike** *Coracina melaena* :

A single male was seen along the Gare's Lookout trail in Varirata National Park.

* **Black-bellied Cuckoo-shrike** *Coracina montana* :

Up to 6 were seen daily from the Bailey bridge below Tari Gap.

* **Golden Cuckoo-shrike** *Campochaera sloetii* :

Up to 3 were seen daily along the Pipeline road, Kikori.

A pair was seen daily at Dablin creek, Tabubil.

4 birds were seen at Ok Ma, Tabubil.

White-winged Triller *Lalage sueurii* :

2 immatures were seen in the savanna near Aroa Service Station.

Varied Triller *Lalage leucomela* :

Surprisingly scarce, up to 4 were seen daily along the Pipeline road, Kikori.

2 were seen along the Elevala River and at Dablin creek, Tabubil.

And up to 5 were noted daily in Varirata National Park.

MUSCICAPIDAE : Thrushes and Old World Flycatchers

Island Thrush *Turdus poliocephalus* :

Up to 8 were seen daily around Kumul Lodge.

5 were seen near Tari Gap and 2 were seen at Myola.

Pied Chat *Saxicola caprata* :

Common in grasslands at all altitudes visited with up to 6 seen daily along the road near Kumul Lodge and around Tari Gap, up to 4 near Tabubil, 2 or 3 seen at Tari, Mendi and Mt Hagen Airports and up to 3 were noted daily in the Laloki River valley.

CISTICOLIDAE : African Warblers

Golden-headed Cisticola *Cisticola exilis* :

2 were seen near the Kokoda Trail Monument, Sogeri.

6 were seen at Jackson's Airport, Port Moresby.

Single birds were noted at Lea Lea and Hisiu mangroves..

SYLVIIDAE : Old World Warblers

* **Island Leaf-Warbler** *Phylloscopus poliocephalus* :

A single bird was seen near Kwinyank village along the Wabag road below Kumul Lodge.

Up to 4 were seen daily around Warili Lodge and a single bird was seen in a roadside garden near Ambua Lodge.

* **Papuan Grassbird** *Megalurus papuanus* split from **Tawny Grassbird** *M. timoriensis* :

Up to 4 were seen daily near between the Bailey bridge and Tari Gap.

At least 20 were seen daily in the grasslands at Myola.

RHIPIDURIDAE : Fantails**Northern Fantail** *Rhipidura rufiventris* :

4 were seen at Dablin creek and at Ok Ma, Tabubil.

3 were seen at Hisiu mangroves.

Willie Wagtail *Rhipidura leucophrys* :

Common in all lowland and mid-montane areas with maxima of at least 25 in the Laloki River valley, 20 between Tabubil and Kiunga and 15 along the Elevala River.

*** Friendly Fantail** *Rhipidura albolimbata* :

Up to 6 were seen daily at Kumul Lodge.

Up to 12 were seen daily around Tari Gap and in the grounds of Ambua Lodge.

At least 10 were noted daily at Myola.

*** Black Thicket-Fantail** *Rhipidura maculipectus* :

2 birds were seen along the Pipeline road, Kikori.

*** White-bellied Thicket-Fantail** *Rhipidura leucothorax* :

3 were seen along the Elevala River.

*** Rufous-backed Fantail** *Rhipidura rufidorsa* :

2 were seen along the Pipeline Road, Kikori.

*** Black Fantail** *Rhipidura atra* :

10 were seen along Steven's trail near Warili Lodge and 2 to 4 were noted daily between Ambua Lodge and Tari Gap.

Single birds were noted twice at Dablin creek, Tabubil and at Myola.

*** Chestnut-bellied Fantail** *Rhipidura hyperythra* :

Up to 4 were seen daily in Varirata National Park.

*** Dimorphic Fantail** *Rhipidura brachyrhyncha* :

Up to 3 were seen at Kumul Lodge and up to 6 were noted daily between the Bailey bridge and Tari Gap. Up to 10 were noted daily at Myola.

MONARCHIDAE : Monarch Flycatchers*** Black Monarch** *Monarcha axillaris* :

A pair was seen along the Benari road below Warili Lodge and single birds were seen near the entrance to Ambua Lodge and at Dablin creek, Tabubil.

Black-faced Monarch *Monarcha melanopsis* :

Single bird were seen along the Boundary track, Varirata National Park and at Hisiu mangroves.

Black-winged Monarch *Monarcha frater* :

2 were seen along the Gare's Lookout trail and a single bird was seen along the Boundary track in Varirata National Park.

Another single bird was seen at Dablin creek, Tabubil.

*** Spot-winged Monarch** *Monarcha guttula* :

1 or 2 were seen daily in Varirata National Park.

A single bird was seen along the Pipeline road, Kikori.

*** Hooded Monarch** *Monarchmanadensis* :

1 and next day 2 were seen along the Pipeline road, Kikori.

2 were also seen near Ekame Lodge.

*** Golden Monarch** *Monarcha chrysomela* :

1 to 3 were seen daily along the Pipeline road, Kikori.

A single bird was seen along the Elevala River.

Friiled Monarch *Arses telescopthalmus* :

Up to 12 were seen daily in Varirata National Park.

Up to 6 daily were seen along the Pipeline road, Kikori.

A single bird was seen along the Elevala River.

Leaden Flycatcher *Myiagra rubecula* :

2 birds were seen near the entrance gate to Varirata National Park and 3 were seen at Hisiu mangroves.

Shining Flycatcher *Myiagra alecto* :

Up to 5 were seen daily along the Elevala River and a single bird at the Hisiu mangroves.

Yellow-breasted Boatbill *Machaerirhynchus flaviventer* :

Single birds were seen along the Boundary track, the Gare's Lookout trail and by the main picnic area in Varirata National Park

* **Black-breasted Boatbill** *Machaerirhynchus nigripectus* :

2 or 3 were seen daily near Kumul Lodge and up to 4 were seen daily at Tari Gap and Myola.

* **Torrent Lark** *Grallina bruijni* :

A pair was seen on the river at Ok Menga, Tabubil.

PETROICIDAE : Australian Robins

* **Torrent Flycatcher** *Monachella muelleriana* :

Up to 3 were seen at every visit to Ok Menga, Tabubil.

Lemon-bellied Flycatcher *Microeca flavigaster* :

3 were seen by the entrance gate at Varirata National Park.

* **Olive Flycatcher** *Microeca flavovirescens* :

A single bird was seen along the Stream (Varirata Lookout) trail in Varirata National Park.

* **Canary Flycatcher** *Microeca papuana* :

2 were seen at Kumul Lodge.

2 or 3 were seen daily between Ambua Lodge and Tari Gap.

Up to 3 were seen daily at Myola.

* **White-faced Robin** *Tregellasia leucops* :

4 were seen along the Gare's Lookout trail and 2 were seen along the Boundary track in Varirata National Park.

Mangrove Robin *Eopsaltria pulverulenta* :

7 were seen at Hisiu mangroves and a single bird was seen at Lea Lea.

* **Lesser New Guinea Thrush (Lesser Ground-Robin)** *Amalocichla incerta* :

3 birds were seen remarkably well as they responded to a taped call along Benson's trail, below Tari Gap.

2 were also seen at Myola.

* **Black-sided Robin** *Poecilodryas hypoleuca* :

2 were seen on along the Pipeline road, Kikori.

Single birds were seen daily near Ekame Lodge.

* **Black-throated Robin** *Poecilodryas albonotata* :

Single birds were seen at Tari Gap and along Benson's trail.

1 or 2 were seen daily at Myola.

* **White-winged Robin** *Peneothello sigillatus* :

Excellent close views of up to 6 birds were obtained daily at Kumul Lodge.

One of many species which are remarkably tame in this area thanks to the local landowners embargo on hunting in and around the Lodge grounds.

3 were also seen at Tari Gap.

* **Blue-grey Robin** *Peneothello cyanus* :

Up to 3 were seen daily around the grounds of Ambua Lodge and at Myola.

* **White-rumped Robin** *Peneothello bimaculatus* :

1 bird seen twice, at Dublin Creek, Tabubil.

Ashy Robin *Poecilodryas albispecularis* :

Up to 3 were seen daily at Myola.

PACHYCEPHALIDAE : Whistlers, Pitohuis and Allies*** Wattled Shrike-Tit (Ploughbill) *Eulacestoma nigropectus* :**

A pair was seen in a roadside garden near the entrance to Ambua Lodge and males were seen twice and a female once at Myola.

*** Golden-faced (Dwarf) Whistler *Pachycare flavogrisea* :**

6, including 4 together were seen along the Boundary track and another 2 were seen near Gare's Lookout in Varirata National Park.

*** Rufous-naped Whistler *Pachycephala rufinucha* :**

Up to 7 were seen daily at Kumul Lodge where they are remarkably confiding for such a normally shy species. Single birds were seen at Tari Gap and in the grounds of Ambua Lodge. 1 to 3 were seen daily at Myola.

*** Brown-backed Whistler *Pachycephala modesta* :**

Up to 6 were seen daily between Ambua Lodge - Tari Gap and at Myola.

Up to 3 were seen daily at Kumul Lodge.

A pair was seen feeding a recently fledged juvenile in the grounds of Ambua Lodge

Grey-headed (Grey) Whistler *Pachycephala simplex* :

6 were seen along the Gare's Lookout trail in Varirata National Park.

*** Sclater's Whistler *Pachycephala soror* :**

Up to 4 were seen daily between the Benari road and Ambua Lodge grounds.

Up to 3 were seen daily at Myola.

1 or 2 female/immature birds were also seen daily at Dablin creek, Tabubil.

*** Regent Whistler *Pachycephala schlegelii* :**

Up to 4 were seen daily around Kumul Lodge.

Up to 3 were noted at Tari Gap and up to 4 were seen daily at Myola.

*** Black-headed Whistler *Pachycephala monacha* :**

5 were seen in *Casuarina* trees near Kwinyank village along Wabag rd. below Kumul Lodge.

Rufous (Little) Shrike-Thrush *Colluricincla megarhyncha* :

Up to 3 birds were seen daily in Varirata National Park.

1 or 2 were noted daily at Dablin creek, Tabubil.

2 were seen near Ekame Lodge.

Grey Shrike-Thrush *Colluricincla harmonica* :

4 were seen near the Kokoda Trail Monument, Sogeri.

*** Hooded Pitohui *Pitohui dichrous* :**

Up to 4 were seen in Varirata National Park each visit.

Varirata is an excellent place to observe the world's first described poisonous bird.

A single bird was also seen at Dablin creek, Tabubil.

*** White-bellied Pitohui *Pitohui incertus* :**

2 to 3 were seen along the Elevala River although many more were heard.

*** Rusty Pitohui *Pitohui ferrugineus* :**

10 were seen around the main picnic area in Varirata National Park and 2 others were seen along the Gare's Lookout trail.

2 were also seen along the Elevalal River.

*** Crested Pitohui *Pitohui cristatus* :**

A duetting pair gave acceptable views to most of us along the Gare's Lookout trail in Varirata National Park when their weird song was played back to them.

This is usually a very difficult bird to see as it is very shy.

*** Variable Pitohui *Pitohui kirhocephalus* :**

Up to 6 were seen along the Pipeline road, Kikori.

2 were seen along the Elevala River.

*** Black Pitohui *Pitohui nigrescens* :**

A male was seen by me at Myola.

NEOSITTIDAE : Sittellas

* **Black Sittella** *Neositta miranda* :

A flock of 4 was seen at Myola.

CLIMACTERIDAE : Australian Treecreepers

* **Papuan Treecreeper** *Cormobates placens* :

Up to 3 birds were seen on two consecutive days at Myola.

CINCLOSOMATIDAE : Quail-thrushes and Allies

* **Painted Quail-thrush** *Cinclosoma ajax*:

A pair was seen along the Boundary track in Varirata National Park, about 2 km on from Gare's Lookout and calling birds were also noted at the start of the Boundary track.

* **Blue Jewel-babbler** *Ptilorrhoa caerulescens* :

A pair eventually gave good views (for a jewel-babbler) along the Pipeline road, Kikori and then a pair gave all of us a brilliant performance near Ekame Lodge .

* **Chestnut-backed Jewel-babbler** *Ptilorrhoa castanonotus* :

A single bird was seen along the Boundary track, Varirata National Park.

* **Spotted Jewel-babbler** *Ptilorrhoa leucosticta* :

A single bird was seen by me at Myola.

* **Blue-capped Ifrita** *Ifrita kowaldi* :

This strange and poisonous species was very scarce this trip, only 2 were seen near Ambua Lodge and up to 3 were seen daily at Myola.

ORTHONYCHIDAE : Logrunners

* **New Guinea Logrunner** *Orthonyx novaeguineae* :

A pair and probably 3 other females gave most of us good views along Benson's trail below Tari Gap. A pair and a single female were also seen well at Myola.

POMATOSTOMATIDAE : Australian Babblers

* **Rufous Babbler** *Pomatostomus isidorei* :

A noisy flock of about 15 birds was seen along the Pipeline road, Kikori.
2 were seen on consecutive days along the Elevala River.

MALURIDAE : Fairy-wrens

* **White-shouldered Fairy-wren** *Malurus alboscapulatus* :

At least 10 were seen en route to Kwinyank village along the Wabag road below Kumul Lodge and also along the road between Mt Hagen and Kumul Lodge.

Up to 4 were seen daily near Warili Lodge.

A pair was noted twice at Dablin creek, Tabubil.

A single bird was seen near the Kokoda Trail Monument, Sogeri.

* **Emperor Fairy-wren** *Malurus cyanocephalus* :

Single birds were seen at K17 near Kiunga and daily near Ekame Lodge.

A pair gave us excellent views along the Boystown road, Kiunga.

PARDALOTIDAE : Australian Warblers

* **Rusty Mouse-Warbler** *Crateroscelis murina* :

2 birds were seen along the Boundary track, and Circuit trail in Varirata National Park.

Single birds were also seen at Ok Ma and at Dablin creek, Tabubil.

* **Mountain Mouse-Warbler** *Crateroscelis robusta* :

4 birds were seen on two occasions in the grounds of Kumul Lodge.

A single bird was seen along Benson's trail below Tari Gap.

Up to 10 were seen daily at Myola.

*** Pale-billed Scrub-wren** *Sericornis spilodera* :

2 birds were seen along the Stream (Varirata Lookout) trail and a single bird was seen along the Boundary track in Varirata National Park.

*** Perplexing Scrub-wren** *Sericornis virgatus* :

A single bird was seen at Tari Gap. This bird was observed at very close range and finally identified as this species.

*** Large Scrub-wren** *Sericornis nouhuysi* :

Up to 10 were seen daily at Kumul Lodge and between Ambua Lodge and Tari Gap.

5 were also seen at Myola.

*** Buff-faced Scrub-wren** *Sericornis perspicillatus* :

Up to 4 were seen daily around Kumul Lodge and Ambua Lodge.

At least 10 were seen daily at Myola.

*** Papuan Scrub-wren** *Sericornis papuensis* :

1 or 2 were seen daily at Kumul Lodge.

Up to 3 were seen daily between the Bailey bridge and Tari Gap.

2 were noted at Myola.

*** Grey Gerygone** *Gerygone cinerea* :

2 were seen along Steven's trail near Warili Lodge.

At least 10 were noted daily at Myola.

Green-backed Gerygone *Gerygone chloronotus* :

2 were seen along the Gare's Lookout trail in Varirata National Park.

A pair with a single fledgeling was seen at K17 near Kiunga.

Fairy Gerygone *Gerygone palpebrosa* :

At least 4 were seen along the Gare's Lookout trail and 2 were seen along the Boundary track in Varirata National Park.

2 were also seen on consecutive days at Dablin creek, Tabubil.

*** Yellow-bellied Gerygone** *Gerygone chrysogaster* :

Up to 4 were seen daily along the Pipeline road, Kikori.

1 or 2 were seen daily along the Elevala River.

Single birds were noted on two occasions in Varirata National Park.

Large-billed Gerygone *Gerygone magnirostris* :

At least 10 were seen at Hisiu mangroves.

A single bird was also seen along the Elevala River.

Mangrove Gerygone *Gerygone levigaster* :

2 were seen at Lea Lea and a single bird was seen at Hisiu mangroves.

*** Brown-breasted Gerygone** *Gerygone ruficollis* :

Up to 3 were seen daily at Kumul Lodge.

Up to 6 were seen daily both in the Tari valley and at Myola.

White-throated Gerygone *Gerygone olivacea* :

2 were seen in the savanna near Aroa Service Station.

NECTARINIIDAE : Sunbirds

Black Sunbird *Leptocoma sericea* :

This excellent sunbird was seen at most lowland localities visited with up to 8 seen daily along the Pipeline road, Kikori, 4 along the Elevala River, 2 at Ok Ma, Tabubil and 2 along the Boystown road, Kiunga being the maximum daily totals.

Olive-backed (Yellow-bellied) Sunbird *Cinnyris jugularis* :

6 were seen at Hisiu mangroves and single birds were seen at the Kokoda Trail Monument, Sogeri, near Kikori airstrip and at Lea Lea.

MELANOCHARITIDAE : Longbills and Berrypeckers*** Yellow-bellied Longbill** *Toxorhamphus novaeguineae* :

2 birds were seen along the Elevala River.

*** Slaty-chinned Longbill** *Toxorhamphus poliopterus* :

A single bird was seen along Steven's trail near Warili Lodge.

*** Grey-bellied (Dwarf) Longbill** *Oedistoma iliolophus* :

A single bird was seen and many others were heard in Varirata National Park.

And a single bird was seen at Dablin creek, Tabubil.

*** Obscure Berrypecker** *Melanocharis arfakiana* :

A single bird gave us excellent close views at Dablin creek, Tabubil.

This rare bird is a local speciality.

*** Lemon-breasted (Mid-mountain) Berrypecker** *Melanocharis longicauda* :

Up to 7 were seen daily at Myola.

*** Black Berrypecker** *Melanocharis nigra* :

Surprisingly scarce with 2 to 4 daily in Varirata National Park being our only sightings of this normally more common species.

*** Fan-tailed Berrypecker** *Melanocharis versteri* :

Up to 8 were seen daily at Kumul Lodge.

Up to 18 were seen daily between Benson's trail and Tari Gap.

Up to 10 were seen daily at Myola.

*** Streaked Berrypecker** *Melanocharis striativentris* :

A single bird was seen briefly but well by Wiel and me.

PARAMYTHIIDAE : Painted Berrypeckers*** Tit Berrypecker** *Oreocharis arfaki* :

Up to 50 were seen daily between the Bailey bridge and Tari Gap.

*** Crested Berrypecker** *Paramythia montium* :

Up to 4 were seen daily in the grounds of Kumul Lodge.

5 of these striking birds were also seen at Tari Gap.

DICAEIDAE : Flowerpeckers*** Red-capped (Papuan) Flowerpecker** *Dicaeum geelvinkianum* :

Up to 6 were seen daily along the Pipeline road, Kikori.

3 were seen near Kkwinyank village along the Wabag road below Kumul Lodge.

1 or 2 were seen daily in Varirata National Park.

2 birds were also seen on consecutive days near Warili Lodge.

ZOSTEROPIDAE : White-eyes*** Black-fronted White-eye** *Zosterops minor* :

Up to 20 were seen daily in the *Casuarina* trees along the trails in Varirata National Park.

*** Capped (Western Mountain) White-eye** *Zosterops fuscicapillus* :

At least 60 were seen daily at Dablin creek, Tabubil.

At least 15 were seen near the entrance to Ambua Lodge.

*** New Guinea White-eye** *Zosterops novaeguineae* :

A flock of at least 8 was seen at Kwinyank village along the Wabag road below Kumul Lodge.

2 were seen at Dablin creek, Tabubil and along the Benari road below Warili Lodge.

2 were seen daily at Myola.

MELIPHAGIDAE : Honeyeaters*** Silver-eared Honeyeater** *Lichmera alboauricularis* :

A single bird was seen in mango trees outside the PNG Arts souvenir shop in Port Moresby. This species was conspicuously absent from the usual stake-out area by Aroa Service Station.

*** Red-throated Myzomela** *Myzomela eques* :

A single bird was seen near the main picnic area in Varirata National Park.

Dusky Myzomela *Myzomela obscura* :

2 were seen at Hisiu mangroves.

*** Papuan Black Myzomela** *Myzomela nigrita* :

Single birds were seen twice in Varirata National Park.

*** Mountain Myzomela** *Myzomela adolphinae* :

2 were seen in *Casuarina* trees along the Gare's Lookout trail, Varirata National Park and a single male was seen feeding from garden shrubs at Tari Airport.

*** Red-collared Myzomela** *Myzomela rosenbergii* :

1 or 2 birds were seen daily around Kumul Lodge.

Up to 5 were seen daily between Ambua Lodge and Tari Gap.

1 or 2 were seen daily at Myola.

*** Long-billed Honeyeater** *Melilestes megarhynchus* :

2 seen along the Pipeline road, Kikori were our only sightings of this usually more common species.

*** Mountain Honeyeater** *Meliphaga orientalis* :

Up to 15 were seen daily at Dablin creek, Tabubil.

5 were seen at Ok Ma, Tabubil.

*** Scrub (White-eared) Honeyeater** *Meliphaga albonotata* :

2 were seen at K120 near Tabubil and along the Boystown road near Kiunga and single birds were seen along the Elevala River.

*** Puff-backed Honeyeater** *Meliphaga aruensis* :

A single bird was seen near the main picnic area in Varirata National Park.

*** Mimic Honeyeater** *Meliphaga analoga* :

Up to 4 were seen daily in Varirata National Park and 2 were seen along the Pipeline road, Kikori and along the Boystown road near Kiunga.

Graceful Honeyeater *Meliphaga gracilis* :

2 were seen at Lea Lea and Hisiu mangroves.

A single bird was seen along the Pipeline road, Kikori.

*** Yellow-gaped Honeyeater** *Meliphaga flavirictus* :

A single bird was seen well along the Pipeline road, Kikori.

*** Varied Honeyeater** *Lichenostomus versicolor* : (H)

A single bird was heard calling from the mangroves at Lea Lea.

*** Yellow-tinted Honeyeater** *Lichenostomus flavescens* :

At least 10 were seen around Aroa Service Station..

*** Black-throated Honeyeater** *Lichenostomus subfrenatus* :

1 or 2 birds were seen daily at Tari Gap.

Single birds were seen on two occasions at Myola.

*** Obscure Honeyeater** *Lichenostomus obscurus* :

2 were glimpsed twice and heard calling several times near Ekame Lodge and another was heard along the Boystown road, Kiunga.

*** Spotted Honeyeater** *Xanthotis polygramma* :

Single birds were seen at Dablin creek and Ok Ma, Tabubil.

Tawny-breasted Honeyeater *Xanthotis flaviventer* :

Up to 10 were seen daily along the Pipeline road, Kikori.

Up to 15 were seen daily at Dablin creek, Tabubil.

6 were seen at Ok Ma, Tabubil.

3 were seen along the Boystown road and at K17 near Kiunga.
Single birds were seen twice in Varirata National Park.

White-throated Honeyeater *Melithreptus albogularis* :

4 were seen along the entrance road to Varirata National Park.

* **Plain Honeyeater** *Pycnopygius ixoides* :

Up to 3 were seen daily at Dablin creek, Tabubil.

2 were seen along the Boystown road, Kiunga.

A single bird was seen along the Pipeline road, Kikori.

* **Marbled Honeyeater** *Pycnopygius cinereus* :

2 were seen along Steven's trail near Warili Lodge and 2 were seen along the Benari road.

* **Streak-headed Honeyeater** *Pycnopygius stictocephalus* :

1 or 2 birds were seen on each visit to Varirata National Park.

2 were also noted at the Pacific Adventist University and along the Pipeline road, Kikori.

3 were seen at K17 near Kiunga.

* **Meyer's Friarbird** *Philemon meyeri* :

A single bird was seen at Dablin creek, Tabubil.

* **New Guinea Friarbird** *Philemon novaeguineae*

Split from **Helmeted Friarbird** *P.buceroideus*:

Very common in the lowlands and foothills with 6 seen in Varirata National Park.

10 along the Pipeline road, Kikori and 4 along the Elevala River being the daily maxima.

* **Yellowish-streaked Honeyeater** *Ptiloprora meekiana* :

2 of these rare, elusive but otherwise unremarkable honeyeaters were seen by most of us along Steven's trail near Warili Lodge.

* **Rufous-backed Honeyeater** *Ptiloprora guisei* :

Up to 10 were seen daily between Warili Lodge and the Bailey Bridge below Tari Gap which is approaching the altitudinal limit for this species in the presence of its sibling species *P. perstriata*. Up to 10 were also seen daily at Myola.

* **Black-backed (Grey-streaked) Honeyeater** *Ptiloprora perstriata* :

Up to 10 were seen daily in the Kumul Lodge area and up to 6 were seen daily at Tari Gap.

* **Belford's Melidectes** *Melidectes belfordi* :

Annoyingly common, with up to 20 daily around Kumul Lodge.

At least 15 daily between Tari Gap and the Bailey bridge.

Less common in Myola, with 6 being the maximum daily count.

* **Yellow-browed Melidectes** *Melidectes rufocrissalis* :

At least 6 were seen daily, between Ambua Lodge and lower down the Tari valley.

* **Ornate Melidectes** *Melidectes torquatus* :

2 were seen at Tapuka quarry en route to Kumul Lodge.

4 were seen near Kwinyank village along the Wabag road below Kumul Lodge.

Single birds were seen twice at Dablin creek, Tabubil.

* **Smoky Honeyeater** *Melipotes fumigatus* :

At least 20 were seen daily in the grounds of Kumul Lodge.

At least 15 were seen between Ambua Lodge and Tari Gap.

3 were noted at Dablin creek, Tabubil.

Up to 10 were also seen daily at Myola.

Rufous-banded Honeyeater *Conopophila albogularis* :

At least 10 were seen at the Pacific Adventist University and 8 were seen around Aroa Service Station.

ORIOLIDAE : Old World Orioles and Figbirds

* **Brown Oriole** *Oriolus szalayi* :

Up to 3 were seen daily along the Pipeline road, Kikori and at K17 near Kiunga.

2 were seen at the Pacific Adventist University, in Varirata National Park and at Hisiu mangroves.

Single birds were also seen along the Boystown road, Kiunga and near Kwinyank village along the Wabag road below Kumul Lodge.

Green Figbird *Sphecotheres viridis* :

4 were seen at the Pacific Adventist University and at least 10 were seen at Hisiu mangroves.

LANIIDAE : Shrikes

Long-tailed Shrike *Lanius schach* :

1 to 3 were seen daily around Kumul Lodge, a single bird was seen near Warili Lodge.

DICRURIDAE : Drongos

* **Mountain (Pygmy) Drongo** *Chaetorhynchus papuensis* :

Only seen in Varirata National Park. A pair was seen along the Boundary track about 1km from Gare's Lookout and single birds were seen at the start of the Boundary track and along the Gare's Lookout trail.

Spangled Drongo *Dicrurus bracteatus* :

Up to 8 were seen daily along the Pipeline Road, Kikori, 6 were seen along the Elevala River, 3 along the Boystown road, Kiunga and up to 4 were seen daily in Varirata National Park.

ARTAMIDAE : Wood-swallows, Butcherbirds and Allies

* **Great Wood-swallow** *Artamus maximus* :

Up to 12 were seen daily around Tabubil, 4 were seen at Kumul Lodge.

Up to 10 at Ambua Lodge and 6 were noted around the Bailey bridge below Tari Gap.

White-breasted Wood-swallow *Artamus leucorhynchus* :

Up to 30 were noted daily in the Laloki River valley, 4 were seen at Jackson's Airport, Port Moresby, and 2 were noted in Kiunga town.

* **Mountain Peltops** *Peltops montanus* :

A pair and another bird were seen at Dublin creek, Tabubil.

4 were seen near Ambua Lodge and 2 were seen daily at Myola.

* **Lowland Peltops** *Peltops blainvillii* :

Up to 4 were seen daily along the Pipeline road, Kikori.

3 were seen along the Elevala River and at K17 near Kiunga.

Black-backed Butcherbird *Cracticus mentalis* :

4 were seen at the Pacific Adventist University.

Up to 3 were seen daily along the road to Varirata National Park.

* **Hooded Butcherbird** *Cracticus cassicus* :

Common in lowland and foothill forest with at least 8 along the Pipeline road, Kikori, 6 at Ok Ma, 5 at Dublin creek, Tabubil, 4 along the Boystown road near Kiunga and 3 in Varirata National Park being the daily maxima.

Black Butcherbird *Cracticus quoyi* :

Good views of a single bird were obtained along the Pipeline road, Kikori and others were seen at Ok Ma, Ok Menga and Dublin Creek, Tabubil and near Ambua Lodge.

PARADISAEIDAE : Birds of Paradise

* **Loria's Bird of Paradise** *Cnemophilus loriae* :

2 female-plumaged birds were seen in the grounds of Kumul Lodge on two consecutive days.

3 female-plumaged birds were seen along Benson's trail below Tari Gap and 2 others were seen in the grounds of Ambua Lodge.

A pair was seen on consecutive days at Myola.

* **Glossy-mantled Manucode** *Manucodia atra* :

Up to 6 were seen daily along the Elevala River and single birds were seen along the Pipeline road, Kikori, along the Hiritano Highway and in Varirata National Park.

* **Crinkle-collared Manucode** *Manucodia chalybata* :

A single bird was seen in Varirata National Park.

* **Trumpet Manucode** *Manucodia keraudrenii* :

3 were seen at K17 and 2 were noted along the Boystown road, Kiunga.

* **Short-tailed Paradigalla** *Paradigalla brevicauda* :

A single bird gave us excellent views as it fed in a fruiting tree in a garden near the entrance to Ambua Lodge.

* **Ribbon-tailed Astrapia** *Astrapia mayeri* :

Up to 10 birds were seen daily at Kumul Lodge with the local group consisting of at least 2 splendid adult males, an immature male and 7 female-plumaged birds.

Up to 8 birds, including at least 2 adult males were seen daily at Tari Gap.

* **Princess Stephanie's Astrapia** *Astrapia stephaniae* :

1 or 2 female-plumaged birds were seen daily at Kumul Lodge and also between Ambua Lodge and the Bailey bridge below Tari Gap.

A male was seen at close range in the grounds of Ambua Lodge.

At Myola a male was seen daily, often giving excellent close views.

2 female-plumaged birds were also seen there.

* **Lawes' Parotia** *Parotia lawesii* :

A splendid male was seen near his display court along the Benari road below Warili Lodge.

2 or 3 other males were seen elsewhere along the Benari road and 2 female-plumaged birds were also seen in the area. A female was also seen along Steven's trail below Warili Lodge.

* **Carola's Parotia** *Parotia carolae* :

2 males and approximately 10 female-plumaged birds were seen at Dablin creek, Tabubil. Most of the activity was centred around a fruiting tree about 75m from the track.

* **King of Saxony Bird of Paradise** *Pteridophora alberti* :

Our first bird was a male seen perched on a dead tree at Tari Gap and a female was also seen nearby. The following day 2 advertising males were seen near the Bailey bridge below Tari Gap and later in the day we had incredible low-level views of 2 displaying males and 2 females along Benson's trail. It was a fantastic performance of wing-shivering and head-plume swishing whilst bouncing up and down on a vine which required extraordinary coordination.

* **Magnificent Riflebird** *Ptiloris magnificus* :

A female was seen along the Boystown road and males were heard calling at K17 near Kiunga.

* **Eastern Riflebird** *Ptiloris intercedens* :

Heard much more often than seen in Varirata National Park but a male and 2 female-plumaged birds were seen along the Gare's Lookout trail and another male and a female-plumaged bird were seen along the Stream (Varirata Lookout) trail.

* **Superb Bird of Paradise** *Lophorina superba* :

3 males and a female were seen along the Benari road and 2 females were seen in a fruiting tree in the grounds of Ambua Lodge.

* **Black Sicklebill** *Epimachus fastuosus* :

At first light, along the Benari road below Warili Lodge, we heard a male calling fairly regularly but from long range and scans of the treetops produced nothing. About an hour later, while we were watching a male Macgregor's Bowerbird *Amblyornis macgregoriae* at his bower, the sicklebill called from much closer range and then, to our amazement, he flew straight in, through the understorey, and landed on a branch about 40m from us, calling madly. The bird remained there for about 40 seconds, and gave another

burst of calls before flying on to another part of the forest. We were truly privileged to see that performance.

*** Brown Sicklebill** *Epimachus meyeri* :

Up to 3 females and an immature male were seen almost daily in the grounds of the Lodge, usually feeding on fruit provided by the Lodge staff and giving excellent close views from the Lodge balcony. A male was seen at long range from near the bailey bridge below Tari Gap and a female was seen along Benson's trail. Up to 4 females were seen at Myola each day.

*** Magnificent Bird of Paradise** *Cicinnurus magnificus* :

1 or 2 female-plumaged birds were seen in fruiting trees at Dablin creek, Tabubil each visit. One was also heard calling along the Gare's Lookout trail in Varirata National Park.

*** King Bird of Paradise** *Cicinnurus regius* :

Excellent views of an adult male were obtained near Ekame Lodge along the Elevala River.

*** Twelve-wired Bird of Paradise** *Seleucidis melanoleuca*:

During our first exploration of the Pipeline road, Kikori, 2 female-plumaged birds were seen. Next day we had excellent views of a male and female at a display tree about 75 m from the road. The male appeared there several times giving a full display to the moderately interested female. Another male and 2 other female-plumaged birds were seen further up the Pipeline road later on. A single female-plumaged bird was seen there the following day. A male was also seen flying over the Elevala River.

*** Greater Bird of Paradise** *Paradisaea apoda* :

At least 6 males and 3 females were seen at the lek site at K17 near Kiunga, where the combination of displaying Greater and Raggiana birds of paradise produced a fantastic spectacle both early morning and in the evening.

This was a major highlight of the trip. A male was seen flying over the Elevala River.

A male and 2 females were also seen at Ok Ma, Tabubil.

*** Raggiana Bird of Paradise** *Paradisaea raggiana* :

4 adult males were seen at a lek site near Varirata Lookout and 2 or 3 female-plumaged birds were also present. 1 or 2 males were also seen around the main picnic area along with 4 or 5 female-plumaged birds.

3 excellent males were also seen at the display site at K17 near Kiunga where they contributed immensely to the plumose spectacle.

*** Lesser Bird of Paradise** *Paradisaea minor* :

3 males and 2 females were seen near Kwinyank village along the Wabag road below Kumul Lodge.

*** Blue Bird of Paradise** *Paradisaea rudolphi* :

Stunning views of a fine male were obtained in Heni's garden along the Benari road below Warili Lodge. We watched him there for about 20 minutes and then saw him (or another?) again on several other perches along the road, we could not have hoped for better. This was certainly one of the most desired birds of the trip.

PTILONORHYNCHIDAE : Bowerbirds

Spotted Catbird *Ailurodeus melanotis* :

2 responded actively to a playback of their own calls to give us good views near Ekame Lodge. Calling birds were also heard along the Pipeline road, Kikori.

*** Sanford's Bowerbird** *Archboldia sanfordi* :

We all had excellent views of a very vocal group consisting of 2 males and "grovelling display" pose to a female whilst on a moss cushion on a high bough. It remained prostrate for about 20 seconds before flying off. This behaviour is usually only seen at the male's bower.

* **Macgregor's Bowerbird** *Amblyornis macgregoriae* :

An excellent male was seen around his bower in forest along the Benari road below Warili Lodge.

A female was seen along Benson's trail below Tari Gap

* **Flame Bowerbird** *Sericulus aureus* :

A female was seen feeding at a fruiting tree along the Elevala River.

* **Yellow-breasted Bowerbird** *Chlamydera lauterbachii* :

3 were seen near Kwinyank village along the Wabag road below Kumul Lodge.

Fawn-breasted Bowerbird *Chlamydera cerviniventris* :

Common in the Port Moresby savanna. At least 10 were seen around the Hisiu mangroves, at least 8 were seen from the Hideaway Hotel, up to 5 were seen at the Pacific Adventist University and 3 were seen at the Kokoda Trail Monument.

A fine example of the typical "avenue" bower decorated with green *Eucalyptus* flower buds was seen at the Pacific Adventist University.

CORVIDAE : Crows and Allies

* **Grey Crow** *Corvus tristis* :

A flock of 12 were seen at Ok Ma, Tabubil and up to 8 were seen most days in Varirata National Park.

Up to 5 were seen daily along the Pipeline road, Kikori.

4 were seen at K17 near Kiunga and up to 3 were seen daily along the Elevala River.

Torresian Crow *Corvus orru* :

Up to 15 were seen in the Laloki River valley on the way to Varirata National Park and at least 50 were seen along the Hiritano Highway.

STURNIDAE : Starlings

Metallic Starling *Aplonis metallica* :

Flocks of up to 70 were noted along the Pipeline road, Kikori.

At least 100 were seen along the Elevala River.

20 were seen along the Boystown road and at least 50 were noted along the Hiritano Highway. A single bird was also noted in a huge flock of Yellow-eyed Starlings *A. mystacea* near Ekame Lodge.

* **Singing Starling** *Aplonis cantoroides* :

7 and 5 the following day were seen at the Pacific Adventist University and 3 were seen at Mt Hagen Airport.

A single bird was seen near the PNG Arts building, Port Moresby.

* **Yellow-eyed Starling** *Aplonis mystacea* :

At least 300 were seen near Ekame Lodge. The birds were occasionally feeding on a fruiting tree but were primarily occupied with collecting nesting material. The birds tore off strips about 30 cm long from palm leaves and then flew off to construct their communal nest.

* **Yellow-faced Myna** *Mino dumonti* :

Common in all the lowland locations visited with up to 30 daily along the Pipeline road, Kikori and a flock of at least 30 noted between K17 and Kiunga.

Up to 15 were daily along the Elevala River and smaller numbers were noted elsewhere.

* **Golden Myna** *Mino anais* :

Up to 6 were seen daily along the Elevala River.

Up to 5 were seen daily along the Pipeline road, Kikori.

PASSERIDAE : Sparrows**House Sparrow** *Passer domesticus* :

At least 50 roosted each night at the Hideaway Hotel, Port Moresby and up to 5 were noted at Jackson's Airport, Port Moresby.

ESTRILDIDAE : Estrildine Finches**Blue-faced Parrot-Finch** *Erythrura trichroa* :

Much more widespread this trip; a single immature bird was seen along the Gare's Lookout trail in Varirata National Park.

2 were seen at Dablin creek, Tabubil.

1 or 2 were seen daily in the grounds of Kumul Lodge.

Up to 12 were seen in the garden near the entrance to Ambua Lodge.

Up to 6 were also seen daily at Myola.

*** Mountain Firetail** *Oreostruthus fuliginosus* :

Up to 3 were seen daily at Kumul Lodge and a single bird was seen at Tari Gap.

*** White-spotted Munia (Mannikin)** *Lonchura leucosticta* :

8 were seen along the Pipeline road, Kikori.

2 were noted along the Boystown road near Kiunga.

*** Grand Munia (Mannikin)** *Lonchura grandis* :

5 were seen at the Kokoda Trail Monument, Sogeri.

*** Hooded Munia (Mannikin)** *Lonchura spectabilis* :

At least 60 were seen in the lower Tari valley, 5 were seen at Warili Lodge and 4 were seen at Mt Hagen Airport.

Grey-headed Munia (Mannikin) *Lonchura caniceps* :

At least 100 were seen along the Hiritano Highway, at least 70 were seen daily at Myola, up to 12 were seen at the Pacific Adventist University and 20 were seen at the Kokoda Trail Monument, Sogeri.

Chestnut-breasted Munia (Mannikin) *Lonchura castaneothorax* :

At least 30 were seen feeding by the roadside in the coconut plantations en route to Hisiu mangroves.

362 species observed