# The Bismarck Archipelago

# A Greentours trip report

3<sup>rd</sup> to 18<sup>th</sup> December 2019

Led by Phil Benstead

## Days 1 & 2 December 3<sup>rd</sup> & 4<sup>th</sup> heading east!

We all start our journeys on different days and from different places! Alf and Hannah arriving a day early on the 4<sup>th</sup> to reduce the jetlag on the first day of the tour proper. Colin and Nigel travel through Singapore from London and experience more than their fair share of delays.

## Day 3 December 5<sup>th</sup> to West New Britain

By dinnertime on Day 3 we are all together. Phil is the last in place arriving from Brisbane just an hour behind Nigel and Colin. We meet up, dine together and look forward to an exciting trip.

#### Day 4 December 6<sup>th</sup> Walindi – Christine and Joy Reefs and the Lodge

As the only non-jetlagged member of the team Phil enjoys a walk in the grounds between dawn and breakfast. It is full of wildlife. Common sandpipers trip along the beach and offshore are a groups of whimbrel on exposed sandbanks. The gardens are attracting good numbers of the spectacular New Guinea birdwing (*Ornithoptera priamus*), the huge females feeding at flowers with one or two excited males hovering in attendance. Occasionally a stunning bright blue ulysses (*Papilio ulysses*) darts through the midstory. Searching the tall *Casuarina* trees in the gardens reveals a few nice birds. Eclectus parrot is noisy and obvious. Knob-billed imperial pigeons are impressive. More elusive is a male shining flycatcher. Overhead New Britain friarbirds were noisy as were large flocks of metallic starlings. Birds mobbing a probable but unseen owl included the endemic ashy myzomela. A flowering tree attracted the endemic red-banded flowerpecker. It was time for breakfast.

We are clearly not going to starve here at Walindi! After stoking up we head for the boat jetty and get any snorkelling gear we need to borrow sorted out. Installed in the boat we take the 20-minute run out to Christine Reef under a beautiful blue sky.

Christine Reef had sadly seen better days with much rubble and signs of bleaching but despite the state of the coral the fish diversity was mind-boggling. Sadly damage to tropical coral reefs is commonplace nowadays but there were signs that different coral species were valiantly undertaking a slow colonisation and there is perhaps hope for the future.

Underwater visibility was excellent (the waters of Kimbe Bay are famed for their great clarity) and we started our first snorkelling session with great enthusiasm and set to work recording fish and other

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critters. Diagnosing fish from the kaleidoscopic mass laid out in front of us was daunting at the beginning but with effort in the water, a camera and plenty of bookwork in the evenings we became much more proficient during the course of the fortnight.

Swimming from the boat we encountered a family of Eastern clown anemonefishes. There were also a few groups of Clark's anemonefish here too. During the tour we all enjoyed trying to find the many species of this iconic group of damselfish and trying to photograph them in the tentacles of the anemones that they call home. Schools of yellowtail fusiliers hung in the deeper water off the side of the reef and over the reef loads of various demoiselles, some brilliant blue, others dusky, still others shimmering gold. The parrotfish were today in small groups, each seemed to contain a pair of strikingly-marked foxface rabbitfishes. Bleeker's parrotfish was commonest but we also saw yellow-barred and swarthy. Regal angelfishes were a stunning sight and so too the groups of Moorish idols that drifted along.

As always in Kimbe Bay there were lots of butterflyfish, both in numbers and in variety. We got our list started with saddled, latticed, vagabond, Eastern triangular and redfin butterflyfishes. Five species of butterflyfish on our first snorkel session, this was going to be good. Pink and white-bonnet anemonefish were special here too. We clambered out of the water happy and a little tired.

A short trip in the boat took us to Joy reef which pleasingly was in much better condition. Here humphead wrasse hung about off the drop-off. Blue-girdled angelfish stunned us – a mixture of three colours; deep orange, royal and electric blue. We added eightband butterflyfish to the slowly growing list of this favourite family. Eventually we climbed out of the water and headed back to lunch at the lodge and a much needed free afternoon. Most snoozed away the time between lunch and dinner, still very tired after the epic journey to get here.

#### Day 5 December 7<sup>th</sup> Walindi – Kimbe Bay & Kulu River

A 0500 breakfast set the tone for the remainder of the trip, we worked hard. This morning we were taking the boat out into Kimbe Bay to check some of the islands that were good for birds and had superb fringing reefs. Sitting on the boat we enjoyed the company of a nearby grey-tailed tattler and then we were on our way. We motored out in the early morning light, looking back we could see the volcano that we were living next to quietly smoking and out to our left a large geysir field that occasionally did excellent giant 'whale blow' impressions. A very volcanic area!

The boat journey was quiet but occasionally we noticed pairs of a dragonfly (*Tramea transmarina*) flying over the sea. Lesser frigatebirds drifted idly by. Arriving at the two islands we started looking for birds from the boat. Restorff Island was first and produced a large number of island imperial pigeons. We worked harder for the beautiful Sclater's myzomela and a female mangrove golden whistler. A brief Nicobar pigeon here made us determined to come back and walk the surface of the tiny island later. Black noddy festooned the island and the next. Schaumann island had a fantastic pair of beach kingfishers and a white-bellied sea-eagle and then it was back to Restorff for a quick land-based attempt to see the Nicobar pigeon. We landed on a tiny beach and then waded around the island to the trailhead. A 60 metre trail took us to the centre of the island and we quickly found a couple of Nicobar pigeons that sat nicely for 'scope views.

Afterwards we had two very good snorkelling sessions, with a cracking lunch in between. As we lunched a beach clean-up team from the mainland arrived and flushed three enormous beach thick-knees

that kept lapping the island giving superb flight views. Back in the water we explored the reef fringing the island. Working the shaded areas under roosting black noddies and out over the drop-off. Plenty to see because the reef here is exceptional – the water visibility was excellent and fish were plentiful. Sandy patches had our first blackstreak surgeonfish. Six-banded wrasse and spot-nape and ornate butterflyfish haunted the coral. Beautiful masked rabbitfish and bruising titan triggerfish scuttled past us along the drop-off. The multicoloured displays of Christmas tree worms were rather special. On our second swim we found the much-wanted Klein's butterflyfish and we started documenting the soldierfish that were hiding away in the darker places on the reef. Eventually though we had to tear ourselves away from the reef and motor back to the Lodge.

After a short turnaround back at base most of us accompanied Joseph and David for a first look at the nearby Kulu River for birds and invertebrates. Conditions were far from perfect, it was very hot and a little overcast. Butterflies were few and far between to Nigel's disgust but he immediately found us our first odonate, the widespread *Agriocnemis femina*. This was swiftly followed by a female of the undescribed taxon of *Tetrathemis* that is known from these parts (it does not look like *irregularis* and is probably a new species to science). The heavily pigmented wings of *Neurothemis stigmatizans* were everywhere. The wonderfully pale local subspecies of varied goshawk put on a show. The tiny *Nannophya pygmaea*, one of the smallest dragonflies in the world became commonplace in the trackside vegetation.

Joseph was working hard on the birds whilst we pottered along and found us our first long-tailed mynas. The two *Orthetrum* species known from New Britain (*serapia* and *villosovittatum*) appeared. At the end of the track on the river we found our only estuarine crocodile of the trip. Turning we headed back to the lodge stopping to look for crakes and rails and finding a skulking black bittern along the edge of one of the drains in the oil palm.

Back at the lodge we prepped for dinner and then struggled with fatigue through our nightly fish identification workshop (voted in place of the nightly checklist sessions on this fish-heavy tour).

#### Day 6 December 8<sup>th</sup> Garu WMA & Hanging Gardens Reef and Susan's Ridge

Another early 0500 start saw some of us heading out again with Joseph and David to the nearby Garu reserve for birds and invertebrates. The journey to Garu took us almost an hour, almost all of it, rather depressingly, through a one hundred thousand hectare oil palm plantation! To put it into perspective though there is still more land that is completely natural in New Britain than there is under cultivation.

Finally we reached the edge of the secondary forest and were immediately greeted by a superb set of purple-bellied lories. Overhead shot our first buff-faced pygmy parrots. We worked hard over the next two hours whilst the heat built (we were enjoying a dry lead in to the wet season this year). A pair of inquisitive northern fantails came to see us briefly. The endemic black-capped paradise-kingfisher called nearby but failed to show well. A skulking and endemic violaceous coucal was most welcome as it crept through a hanging vine. Birdwings and ulysses kept us company. Blyth's Hornbills flew back and forth and two sat in a tree for us.

With the heat building and birds going off the boil we switched to invertebrates, finding the fantastic *Hypolimnas alimena* before David found us a superb white-mantled kingfisher (so much for birds going off the boil). Joseph took us in to the forest to a fascinating area along a hot stream. The banksides were

pock-marked with deep nestholes of the endemic Melanesian scrubfowl, a species that harnesses the heat of volcanic areas to incubate its eggs. We spent some time searching but the animals had obviously been spooked by an earlier visitor (perhaps a human preying on the eggs). Incredibly Joseph eventually managed to summon one up and we got 'scope views of it sitting in a tree in the end looking ugly. Dainty *Xiphiagrion cyanomelas* damselflies hung about in sunspots below the canopy.

The heat was intense now so what better than a dip in the hot river! Yes, after a cup of tea, the team got into their swimwear and had a float in the hot river. Very pleasurable by all accounts. Meanwhile Phil worked the surrounding area. Despite the temperature of the water in the river there were a surprising number of odonates here and Phil was thrilled to find the extraordinary Melanesian endemic damselfly; *Mortonagrion martini*. Another vehicle arrived from the Lodge and after their swim the team elected to escape the heat and return to the lodge. This left Phil a very sweaty hour to chase odonates that he put to good use.

The cooler streams along the track (and even in the drains in the oil palm) held good numbers of the recently-described endemic *Pseudagrion lorenzi*. Harder to find were the occasional and excellently misnamed *Nososticta africana* (a Melanesian endemic), these were only in the forest. Driving out we stopped at the shaded river by the oil palm nursery. This was a fantastic spot for dragonflies. Perches were adorned with flashy *Rhinocypha tincta*. *Nannophlebia imitans* was educational. A log in the stream hosted a superb male *Diplacina fulgens*. A single female *Nososticta commutata* was a bonus. Sadly it was time to get back to lunch but afterwards we had another excursion out to the reefs.

After lunch we went out to the Hanging Gardens, just five minutes by boat from Walindi Lodge. We moored up and were soon in the water, the conditions were perfect. We all found the beautiful cushion starfish and some of us encountered black-tip reef shark. Phil even had a white-tip. Big fin reef squid entertained us. On top of the reef in the shallows were abundant blue devils, also lots of other little demoiselles including the surge demoiselle. This was the home of young butterflyfish as well as blackpatch triggerfish and various little fish such as cardinalfish and several small wrasse. Back on the reef walls there was such a variety – spot-tail squirrelfish, striped surgeonfish, redfin bream, yellowstripe and two-barred goatfish, sixbar, crescent and checkerboard wrasse, and the yellow-striped Spanish flag. At the water's surface, or rather a centimetre or two below were sleek silver crocodilian longtoms whilst sitting quietly on a particularly massive coral were a couple of robust two-barred goatfish.

Next we moved the short distance to Susan's ridge for another session. Here we marvelled at the diversity of sea cucumbers, picking up Graeff's, leopard and edible to name but three. We also encountered the sinister crown-of-thorns starfish. Sated we clambered back aboard for the short run back to the lodge.

Our evening meal and fish identification session was interrupted by a visit by a tiny scrubfowl chick confused by the lights in the bar. It was swiftly captured and released somewhere dark.

#### Day 7 December 9<sup>th</sup> Susan's and Vanessa's reefs and Restorff Island

Another early morning start saw us at the jetty and boarding our snokelling boat. We put in an order for dolphins this morning and about ten minutes off shore we bumped into a big pod of bottle-nosed dolphins. We had all heard of the famous Walindi boom nets and how close they could get you to dolphins in their element. A boom was secured to the bow and a net hung from it and Alf and Hannah

got into the water and got settled! The boat moved steadily to catch up with the dolphins and then they were among them. The dolphins bow-rode alongside the net, almost within touching distance, a great underwater encounter. Next it was Phil and Colin's turn. It was such good fun that we all did it twice, the dolphins never seeming to tire of the sport. Elated we re-started our journey and left the dolphins to go about their business.

Finally we got to Susan's reef. I am not sure I can recall this one some two weeks later but my photos indicate a good drop off with many big fish and our first racoon butterflyfish. We also got close to large six-banded angelfish and clown triggerfish.

After a short recovery period with tea and biscuits we were snorkelling the nearby Vanessa's reef. This proved to be a most fantastic place. Close to where we jumped in there was a huge shoal of fish by the drop-off that included humphead wrasse, surgeonfish, tangs and our first pyramid butterflyfish. The variety of butterflyfish on this reef was incredible with at least ten species recorded – dotted, lined, saddled, spot-tailed, Klein's, eastern triangular, raccoon, ornate, redfin and speckled, as well as the aforementioned pyramid. There were groups of impressive steephead parrotfish, and large aggregations of yellow-barred and Bleeker's too. Bird and sixbar wrasse sought 'prey' along the join between deep and reef-top. There were vast schools of fish everywhere including yellowtail, rainbow and lunar fusiliers. At one point a superb shoal of circular spadefish travelled beneath us along the drop-off. Other fish highlights here were groups of fine-lined surgeonfish, bluespine unicornfish, broom filefish and some fabulous titan triggerfish. Just stunning as usual were the regal and blue-girdle angelfishes.

We took lunch moored just off the beach at Restorff Island. Opening the tupperware boxes revealed a tasty lunch and also that fish could hear the lunchy noises through the hull. We were soon surrounded by a throng of hungry fish and beneath them lurked a monstrous humphead wrasse. After lunch there was another chance to snorkel this special island reef before heading for home.

# Day 8 December 10<sup>th</sup> Walindi out to Kimbe Bay, Kimbe Island, Otto's Reef and Namundo

Another early start saw us at the jetty just after dawn, fully fed and raring to go out to Kimbe Island. The local pair of moustached tree-swifts waved us off. Though one can see the island from the lodge it is a long way out and takes just over an hour to motor out to. Of course we had to stop en route for a nice pod of wake-riding bottle-nosed dolphins that we photographed at length as they frolicked behind us as we spun in tight circles in the boat. Also as we travelled our first brown boobies.

Reaching Kimbe Island we were stunned by the number of Nicobar pigeons in the air and soon we were watching them perched too, alongside numerous island imperial pigeons. A pair of beach kingfishers perched close to the boat as we moored up for some static boat birding. As we waited patiently we were treated to a parade of different species. A Mackinley's cuckoo-dove perched up briefly. Island monarch put in an appearance at last and there were constant Sclater's myzomela encounters. We were surprised but pleased to find a yellow-bibbed fruit-dove here. A pair of sacred kingfishers were watched on top of the island. The boatmen pointed out a close Nicobar pigeon and we had a chance to really look at this bird as it tripped along the shoreline. Incredibly this species may be the closest living relative to the dodo and it did indeed look rather otherworldly. Close examination allowed us to appreciate the scabrous legs and horrific, long yellow claws that looked like they needed trimming. A great bird.

It was time to get back into the water. We started right where we were moored. Once into the water we were in another world. Here there was striking corals on great walls that descended as cliffs into the blue below. The water was fantastically clear and shafts of sunlight pierced the water to great depths. Shoals of pale-tail chromis mixed with masses of purple and redfin anthias all mixing their colours with blue-green chromis, and lovely golden damsels. Lounging on corals were peacock groupers, freckled hawkfish and double-bar goatfish. On the reef top the tiny goby-like arc-eye hawkfish sat impassively for the camera! Out in the open water was a mass of fish. Groups of mix-and-match fusiliers included bluestreak, yellowtail, blue-and-yellow and the lovely blue lunar fusilier. Below us along the drop-off a small group of massive bumphead parrotfish cruised back-and-forth. We found our first stunning Bennett's, double-saddle and spot-nape butterflyfish and singular bannerfish here too. Our only teardrop butterflyfish was just exquisite. An inquisitive black-tip reef shark cruised twice around Phil at close range before moving on off over the shallower parts of the reef.

We moved around the more oceanic side of the island. Breakers rolled in and crashed on the reef. We swam along searching out novel species and finding the beautiful dot-and-dash butterflyfish. After all the birds, fish and swimming we were starting to get peckish so we motored half-way home to Otto's reef. Here we lunched and then swam one more time. We moored by the navigation marker. This reef is close to the not-so-busy shipping route that sees small container vessels, trading copra mainly, going in and out of Kimbe Harbour. If anything this reef had even better cliffs with massive coral growth resulting in big overhangs. Many of the species were similar to Kimbe Island but there were differences. Huge shoals of pyramid butterflyfish hung over the drop-off. We caught up with white-bonnet anemonefish again. A juvenile rockmover wrasse was just astonishing. The coral gardens were astonishing. Eventually we left the water and motored home tired and happy.

On arrival back at the lodge some of us got ready for birding quickly and headed back out with Joseph on his feedlot safari. We worked the tall grasslands that are cut to feed beef cattle for birds and got a nice selection of things. The grassland held Papuan grassbird and the endemic buff-bellied mannikin. On the road we searched out shy white-browed crake and buff-banded rail. A short diversion took us to a rainforest fragment that quickly produced yellow-tinted imperial pigeon. Back at the feedlot at dusk we checked the cattle pen for waders picking up Asian golden plover, marsh sandpiper and numerous sharp-tailed sandpipers. A great end to the day.

# Day 9 December 11<sup>th</sup> Walindi – Katherine, Kirsty-Jayne and Donna Reefs & Kulu River

Up until today we had enjoyed blue-sky weather and very little rain. That changed today with rain appearing for the first time. Curiously the rain dragged the smell of sulphur down to ground-level reminding us we were living near an active volcano. This morning we had swapped our morning birding in favour of snorkelling, we would bird in the afternoon instead. Motoring out after breakfast we bumped into the bottle-nosed dolphins again for more photographic opportunities.

First stop today was the small but perfectly-formed Katherine reef. As we swam out from the boat big raindrops landed on our backs. We enjoyed the swim and then headed out to Kirsty-Jayne. Here we were met with a cross current and some nice fish including our only lionfish of the tour. More white-bonnet anemonefish here too.

Our last reef of the day was Donna and here we experienced a big cross current which finished us off

physically for the day! On one side of us was a coral covered ridge, then a dip where the water reached 9 metres and then a reef flat with walls. All quite compact but fantastically rich in fish. There were huge shoals of mixed demoiselles and purple anthias, the purple males simply brilliant. On the sides were large groups of surgeonfish and parrotfish. There were bluefin trevally and titan triggerfish. Our time on the glorious reefs of Kimbe Bay was over.

In the afternoon a small team accompanied Joseph and David to search for birds on the Kulu River. Joseph had been working in our absence and before we got in the minibus he took us to look at some feeding buffy-faced pygmy parrots. Pygmy indeed. We bumped off through the oil palm again stopping for a collared kingfisher (this race is often considered to be a separate species). Arriving at the gallery forest we walked along. Joseph heard nearby red-knobbed fruit doves and started imitating the call. No easy feat and he was hoarse from the efforts by the time this lovely little dove surrendered and perched in the nearby treetops. All the time we were here parrots were whizzing about and included tiny red-flanked lorikeets. We also had great views of pied coucal and failed again to creep up on a shy calling black-capped paradise-kingfisher. This was one endemic we were destined not to see. At dusk a swarm of feeding *Gynacantha kirbyi* pleased one member of the team.

Walking back from dinner in the dark Phil and Colin found a blind snake (*Ramphotyphlops* sp?) wriggling across the path.

#### Day 10 December 12<sup>th</sup> Walindi to Lissenung Island

We had a well-earned easy morning and enjoyed the lodge grounds before an early lunch today. Then it was time to say a sad farewell to Walindi and its staff who had looked after us so very well, and whose comfort, and wildlife-rich surroundings we'd so enjoyed, both above and below the water. We drove to Hoskins Airport for our flight to Rabaul and onward flight to Kavieng. These all went to plan and on the last leg Phil even found himself sitting next to Peter, the man who would be driving us down to the harbour and our waiting boat. We arrived in Kavieng in the gathering dusk and waited in the throng for our bags. Packing ourselves tightly into the Lissenung clown car was not to everyone's taste but the drive to the harbour was over very quickly. Rain fell here too and we anticipated a wet and bumpy crossing to the island. We were not wrong and I suspect more than one of us wondered quite what we were doing as we powered towards the island in the pitch dark! But eventually the lights on the island appeared and we could see Angie and Dietmar in the shallows guiding the boat in. A wet landing, we hastily removed our shoes and socks! We would not be needing them for a little while.

We had arrived! Onshore we were greeted by Dietmar and Angie and introduced to some of the staff and then shown to our spacious stilted cabins. Dinner was superb. Fish, chicken and vegetables wrapped in banana leaves and cooked on hot rocks in the local style.

#### Day 11 December 13<sup>th</sup> Lissenung Island

Phil checked out our tiny island (just 400 by 100m) before breakfast, Melanesian scrubfowls were very evident digging holes around the periphery. Parrots screeched. Beach kingfishers called out of sight from shoreline trees. Overhead an osprey passed carrying a reef fish. Colin took up the offer of a boatride out to two nearby islands to rescue turtle eggs before they were harvested by local people. They were unsuccessful this morning.

After breakfast we got sorted for gear and got stuck into the fabulous house reef for the first of two long sessions today. Lunch was vital for refuelling at half time! The water was very clear especially in the morning, and the fish and corals were amazing. This reef was probably the best we'd seen yet, and it was just off the beach by the restaurant! There were several new species of those delectable butterflyfish here, plus two bannerfish and two spadefish. The school of longfin spadefish was fabulous and you could just swim along next to them, almost touching. There were a few golden spadefish with them which caused a bit of confusion. The entrance to the water here is sandy and twenty metres out one encounters a coral head or bommie which was always swarming with fish, large numbers of mixed emperors and goatfish practically obscured the coral. We spent a lot of time checking this area over the days here. Working north took us along the spectacular architecture of this reef and the welcoming committee, a large shoal of big-eye trevally that you could almost embed within and swim against the current with. Superb. Often here too a huge shoal of pale, ghostlike fringe-lipped mullet.

Although quite a small area the house reef had a variety of substrates that all supported different fish and critter faunas. The sandy area at the start had a large number of nodose starfish on one day but we could not find them the next... Sandy areas with scattered rubble near the shore produced numerous nudibranchs (of an unidentified species) and many (unidentified) shrimpgobies coming out of their burrows accompanied by bulldozing shrimps! Clams were more abundant here than in Kimbe Bay and had a bewildering array of colours.

Out on the reef other butterflyfish abounded, best of all being the fantastic long-beaked coralfish but also – Bennett's, blackback, chevroned, dotted, double-saddle, eastern triangular, eightband, ornate, redfin, saddled, spot-nape, spot-tail, threadfin and vagabond to name some but probably not all. There was a new angelfish in the shape of the elegant and colourful yellowmask angelfish. Barracuda lurked off the drop-off.

There were schools of scissortail sergeants and staghorn damsels were as usual common on the top of corals. Corals – wow! There were so many. There were elegant table corals, curved fan-shaped cabbage corals, turquoise stagshorns, and great massed colonies of verrucose coral covering tens of square metres. There were bowl corals everywhere, and also anemones, including the purple-based magnificent sea anemone. Bristlestars lurked amongst the coral.

Back to the fish. There were shoals of yellowstripe goatfish, strongly red-tinted barred goatfish, tailed-barred freckled goatfish and striking dash-dot goatfish. There were not so many herds of parrotfish, but still a range of species including swarthy, Bleeker's, greensnout and steephead, and of course the wrasse were superbly varied with at least a dozen species including all the usual suspects and a bright golden version of the Slingjaw Wrasse which I at one point saw thrust its unwieldy looking jaw forward. Pipefish posed on coral. Phil found a young snapper with matching ectoparasitic isopods (Cymothidae) on each side of its face. Throughout we searched hard during the two sessions for the crocodilefish reputed to hang about by the beach at the start of the swim but failed to find it. Something for tomorrow or the next day.

#### Day 12 December 14<sup>th</sup> New Ireland – the Boluminski Highway

A pre-dawn departure saw some of us leaving the island for Kavieng complete with packed breakfast and lunch to chase things on New Ireland. We arrived in good shape but our birding team were late... They eventually arrived and headed out of town on the Boluminski highway, a road built for Count

Franz Boluminski, the German administrator of these islands for a decade or so from 1900. Apparently he wielded a fairly fierce rule and made each village build a section of the road, reputedly so that he could be carried in his coach along it. Now we drove on a superbly surfaced road through idyllic looking beaches with the Pacific waves lapping gently on the Eastern shore and a mix of plantation and secondary forest on the western side of the road.

A quick stop for breakfast on the beach allowed us to enjoy the peace and quiet of this part of the world. Then we started working side roads that took us into better habitat. The guides seemed to be searching out fruiting trees to show us pigeons and we quickly found red-knobbed imperial pigeon and knobbilled and white-bibbed fruit-dove. A clearing in the forest produced Hunstein's mannikin (endemic to the island) as well as varied triller, northern fantail and brush cuckoo. Things quickly went off the boil for birds though and our efforts were largely unrewarded after a good early start. We switched to invertebrates eventually, finding some nice dragonflies (including *Rhyothemis resplendens*) and very few butterflies. We finally caught up with the very noticeable blue (*Luthrodes cleotas*) that had been tormenting us throughout the tour. Eventually we dropped back down to the coast, passing through a little local melee (lots of drawn machetes and anger but no clear cause or fighting) and stopped again at the beach for lunch.

Back at the harbour we picked up our ride and headed back to the island. This left us time for a late afternoon session on the house reef. The easy highlight for Phil was catching up with the crocodilefish, as well as our first trumpetfish and the crazy anemone crabs (*Neopetrolisthes maculatus*). Luckily Nigel was still loafing on the shore and re-entered the water to see the crocodilefish.

### Day 13 December 15<sup>th</sup> Lissenung Island and the Matrix

A chance for a lie-in before a 0700 breakfast this morning. After breakfast we motored out to the Matrix for a double snorkel session with the dive team this was sadly influenced by the strong spring tides and we were glad we had had plenty of swimming in the week beforehand. The Matrix is a very long reef that extends out from an island, our two swims here barely covered a tenth of it! We drifted with the current, our boatman keeping an eye on us and following at a distance ready to come in and pick us up when needed. As usual there was a spectacular variety of fish and some big schools, but the best thing was finally finding Meyer's butterflyfish (which was quite common here).

After lunch there was time for a session in the water for the keen, the house reef was impossible to resist. The dread chesty virus that we had been noticing in the neighbourhood had caught up with Phil here though and he did resist and elected to stay on dry land for this session. The birding in the garden was educational and at least one penny finally dropped. Not all the black sunbirds were black sunbirds, most in fact were Bismarck black myzomela... Also here a surprise song parrot and a visiting pied coucal.

#### Day 14 December 16<sup>th</sup> Lissenung to Port Moresby

A nice liesurely start if you wished this morning. After breakfast there was a choice between one last visit to the house reef, or birding in the garden (more black myzomela) before packing ready for the flight to Port Moresby. We set off nice and early for Kavieng, saying our reluctant goodbyes to Angie and Dietmar and their wondeful staff. Then it was one more trip in the 'clown car' with Bruno which took us back to the airport. This time it was the boot that jammed, Phil's comment of 'im buggerup' was well

received by Bruno as we struggled to empty the boot of heavy bags through the front door... Angie had packed us a little nose bag so Phil went foraging for drinks and we whiled away the hour before the plane left by eating and birding out onto the airstrip. More Hunstein's mannikins here and a few common waders.

The flight passed quickly and back we were in Port Moresby meeting our hotel shuttle. The hotel felt ridiculously over-the-top after our fortnight in dive lodges but was well-received by all. A dusk look around the hotel grounds produced fawn-breasted bowerbird and rufous-banded honeyeater for Phil.

#### Day 15 December 17<sup>th</sup> PAU grounds, Port Moresby and flight home

We were up early again this morning for a 0500 pickup for a birding session before breakfast at the PAU campus. Unfortunately Leonard and the team had other ideas and we did not see them until 0530. The hotel staff commiserated and brought us juice. In the end it was all a miscommunication as the gate in to PAU did not officially open until 0600 and we arrived there before that but managed to talk ourselves in. Any discontent at the tardy start was soon despelled by the birds. Leonard lead us on a two-hour wander that took us from one bird to the next.

The campus is set in beautiful grounds. The road names tell you all you want to know about this place – Kingfisher Avenue, Egret Drive and Moorhen Close. Climbing out of the van we were greeted by a pair of noisy black-backed butcherbirds. A small flock of royal spoonbills flew overhead but did not stop. We started by a large pond covered in pink and white lotus. There were large numbers of little black cormorants in a dead tree and a few little pied too. Black-backed swamphens were abundant and there were a pair of dusky moorhen. Pacific black ducks were common and there were a few wandering whistling-ducks on the pond. Comb-crested jacanas tottered over the lilypads whilst on the shore was a single Asian golden plover and a Swinhoe's snipe.

The dragonflies were interesting too and included our only *Ictinogomphus leiftincki* of the trip. Walking on we put in an order for Papuan frogmouth. As we wandered we added peaceful and bar-shouldered dove on nearby wires. A fruiting tree was full of green figbirds and pigeons. In quick order we bagged Torresian imperial pigeon, and orange-fronted and orange-bellied fruit-dove. Rufous-banded honeyeaters put on a show. We went to look at the fawn-breasted bowerbirds bower with Leonard. This was an elegant little structure with a pile of vegetation topped with a neatly fenced alleyway, these decorated with fresh green berries and trinkets.

Leonard all the while was searching for frogmouths and showed us our first one pretty quickly. It was unusually semi-reclined on a a large tree limb. Nearby a blue-winged kookaburra repeatedly smashed a large tree frog against a branch. Before we left we checked another frogmouth roost and got superb views of pair for photographs.

Then it was back to the Airways Hotel for a large breakfast and an anarchic, non-functioning checkout that saw Phil pursued to the very check-in queue at the nearby airport in the end to settle the groups meagre debts. Only in PNG! We sat in the lounge and said our goodbyes and incredibly our flights all boarded at the same time. We were on our way home after a great trip.

#### Systematic List Number 1 Marine life

Fish are listed first, other marine life afterwards. The fish is ordered according to an alphabetical listing of the families. It is woefully incomplete...

Surgeonfishes Fine-lined surgeonfish Striped surgeonfish Blackstreak surgeonfish White-cheeked surgeonfish Convict tang Yellowfin surgeonfish Gray unicornfish Orangespine unicornfish Bluespine unicornfish Bignose unicornfish Brushtail tang Pacific sailfin tang	Acanthuridae Acanthurus grammoptilus Acanthurus lineatus Acanthurus nigricaudus Acanthurus nigricans Acanthurus triostegus Acanthurus xanthopterus Naso caesius Naso lituratus Naso unicornis Naso vlamingii Zebrasoma scopas Zebrasoma veliferum	Kimbe Bay (New Britain). widespread and very common. Kimbe Bay (New Britain). Kimbe Bay (New Britain). Lissenung (New Ireland). Lissenung (New Ireland). Kimbe Bay (New Britain). Kimbe Bay (New Britain). widespread. Kimbe Bay (New Britain). Kimbe Bay and Lissenung (New Ireland). widespread
Cardinalfishes Orbicular Cardinalfish	<b>Apogonidae</b> Sphaeramia orbicularis	strikingly shaped and patterned species in the little creek by reception at Walindi (New Britain).
<b>Trumpetfishes</b> Chinese trumpetfish	Aulostomidae Aulostomus chinensis	Lissenung (New Ireland).
<b>Triggerfishes</b> Broom Filefish	Balistidae Amanses scopas	Kimbe Bay (New Britain).
Clown triggerfish Striped triggerfish Titan triggerfish Oceanic triggerfish Pinktail triggerfish Yellowmargin triggerfish Blackpatch triggerfish	Balistoides conspicillum Balistoides undulatus Balistoides viridescens Canthidermis maculata Melichthys vidua Pseudobalistes flavimarginatus Rhinecanthus verrucosus	Kimbe Bay (New Britain). Kimbe Bay (New Britain). widespread. Lissenung (New Ireland). widespread. Lissenung (New Ireland). scattered.
Striped triggerfish Titan triggerfish Oceanic triggerfish Pinktail triggerfish Yellowmargin triggerfish	Balistoides undulatus Balistoides viridescens Canthidermis maculata Melichthys vidua Pseudobalistes flavimarginatus	Kimbe Bay (New Britain). widespread. Lissenung (New Ireland). widespread. Lissenung (New Ireland).

Trevallies Carangidae

Orange-spotted trevally Carangoides bajad scarce throughout.

Giant trevally Caranx ignobilis Kimbe Bay (New Britain).

Blue-fin trevally *Caranx melampygus* seen in all areas, usually in low numbers.

Bigeye trevally Caranx sexfasciatus One of the highlights of Lissenung (New Ireland) was the

huge shoal of this species that greeted you as you went

off the beach at the house reef.

Butterflyfish Chaetodontidae

Threadfin butterflyfish Chaetodon auriga Lissenung.

Eastern triangular Chaetodon baronessa Kimbe Bay (New Britain) and Lissenung.

butterflyfish

Bennett's butterflyfish Chaetodon bennetti Kimbe Bay (New Britain) and Lissenung.

Speckled butterflyfish Chaetodon citrinellus Kimbe Bay (New Britain).

Saddled butterflyfish Chaetodon ephippium Kimbe Bay (New Britain) and Lissenung.

Klein's butterflyfish Chaetodon kleinii Kimbe Bay (New Britain).

Lined butterflyfish Chaetodon lineolatus Kimbe Bay (New Britain) and Lissenung.

Raccoon butterflyfish Chaetodon lunula Kimbe Bay (New Britain).

Redfin butterflyfish Chaetodon lunulatus Kimbe Bay (New Britain) and Lissenung.

Blackback butterflyfish Chaetodon melannotus Kimbe Bay (New Britain) and Lissenung (New Ireland).

Meyer's butterflyfish Chaetodon meyeri The Matrix (New Ireland).

Spot-tail butterflyfish

Chaetodon ocellicaudus

Eightband butterflyfish

Chaetodon octofasciatus

Chaetodon ornatissimus

Chaetodon ornatissimus

Spot-nape butterflyfish

Chaetodon oxycephalus

Kimbe Bay (New Britain) and Lissenung.

Dot & dash butterflyfish Chaetodon pelewensis Kimbe Island (New Britain).

Latticed butterflyfish Chaetodon rafflesi Kimbe Bay (New Britain) and Lissenung.

Dotted butterflyfish Chaetodon semeion Kimbe Bay (New Britain). Chevroned butterflyfish Chaetodon trifascialis Lissenung (New Ireland).

Double-saddle butterflyfish Chaetodon ulietensis Kimbe Bay (New Britain) and Lissenung.

Teardrop butterflyfish Chaetodon unimaculatus
Vagabond butterflyfish Chaetodon vagabundus

Kimbe Bay (New Britain) and Lissenung.

Kimbe Bay (New Britain) and Lissenung.

Long-beaked coralfish Chelmon rostratus Reasonably frequently encountered on the house reef at

Lissenung (New Ireland).

Longnose butterflyfish Forcipiger flavissimus Kimbe Bay (New Britain).

Pyramid butterflyfish Hemitaurichthys polylepis Kimbe Bay (New Britain) and The Matrix (New Ireland).

Abundant at just a few reefs.

Pennant bannerfish Henichos chrysostomus widespread and common.

Singular bannerfish Henichos singularis throughout but very local, eg The Matrix (New Ireland).

Humphead bannerfish Henichos varius Kimbe Bay (New Britain).

Sharks Carcharhinidae

Black-tipped reef shark Carcharhinus melanopterus Kimbe Bay (New Britain) and Lissenung (New Ireland).

Hawkfish Cirrhitidae

Arc-eye hawkfish Paracirrhites arcuatus

Freckled hawkfish Paracirrhites forsteri
Marbled hawkfish Cirrhitus pinnulatus

Porcupinefish Diodontidae

Spotted porcupinefish Diodon hystrix A huge individual occasionally loafing in the shade on

the house reef at Lissenung (New Ireland).

Spadefish Ephippidae

Golden spadefish Platax boersii Lissenung (New Ireland). Circular spadefish Platax orbicularis Kimbe Bay (New Britain). Longfin spadefish Platax pinnatus Lissenung (New Ireland).

Flying fish Exocetidae

Flying Fish sp common in Kimbe Bay

Mudskippers Gobiidae

Mudskipper Periophthalmus sp mangroves and tidal creeks

Sweetlips Haemulidae

Oriental Sweetlips Plectorhinchus orientalis Kimbe Bay and Lissenung, but scarce.

Gold-striped sweetlips Plectorhinchus chrysotaenia Lissenung (New Ireland). Diagonal-banded sweetlips Plectorhinchus lineatus Lissenung (New Ireland).

Squirrelfish & soldierfish Holocentridae

Shadowfin soldierfish *Myripristis adusta* Kimbe Bay (New Britain). Blotcheye soldierfish *Myripristis murdjan* Kimbe Bay (New Britain).

Violet soldierfish Myripristis violacea widespread.

Red soldierfish *Myripristis vittata* Lissenung (New Ireland). Spotfin squirrelfish *Neoniphon sammara* Lissenung (New Ireland).

Long-jawed squirrelfish Sargocentron spiniferum Kimbe Bay (New Britain) and Lissenung (New Ireland).

Tuskfishes and Wrasses Labridae

Anchor tuskfish Choerodon anchorago Lissenung.

Split-level hogfish Bodianus mesothorax at most snorkeling sites.

Scarlet-breasted Maori Cheilinus fasciatus widespread.

wrasse

Humphead wrasse Cheilinus undulatus widespread.

Cigar wrasseCheilio inermisLissenung (New Ireland).Checkerboard wrasseHalichoeres hortulanusKimbe Bay (New Britain).Zigzag wrasseHalichoeres scapularisLissenung (New Ireland).Barred thicklipHemigymnus fasciatusscattered throughout.

Blackeye thicklip Hemigymnus melapterus widespread.
Tubelip wrasse Labrichthys unilineatus widespread.
Bird wrasse Gomphosus varius widespread.

Bicolor cleaner wrasse Labroides bicolor Kimbe Bay (New Britain).
Blue-streak cleaner wrasse Labroides dimidiatus Kimbe Bay (New Britain).
Blackspot cleaner wrasse Labroides pectoralis Kimbe Bay (New Britain).

Rockmover wrasse Novaculichthys taeniurus One crazy juvenile in Kimbe Bay (New Britain).

Sixbar wrasse Thalassoma hardwicke Kimbe Bay (New Britain).

Moon wrasse Thalassoma lunare widespread.

Sunset wrasse Kimbe Bay (New Britain). Thalassoma lutescens

Lethrinidae **Breams & emperors** 

Lethrinus harak Thumbprint emperor Kimbe Bay (New Britain). Lethrinus olivaceus Long-nosed emperor Lissenung (New Ireland).

Redfin bream Monotaxis heterodon widespread.

Humpnose bigeye bream Monotaxis grandoculis Kimbe Bay (New Britain).

**Snappers** Lutjanidae

Two-spot snapper Lutjanus biguttatus Matrix (Lissenung).

Spanish flag Lutjanus carponotatus

Flametail snapper Lutjanus fulvus Lissenung. Gold-lined snapper Lutjanus rufolineatus Lissenung. Black-banded snapper Lutjanus semicinctus widespread.

Midnight snapper Macolor macularis widespread – the juveniles have the most striking black

and white markings.

Mullets Mugilidae

Fringelip mullet Crenimugil crenilabis Lissenung (New Ireland).

Goatfish Mullidae

Yellowstripe goatfish Mulloidichthys flavolineatus widespread. Dash-dot goatfish Parupeneus barberinus widespread.

Two-barred goatfish Parupeneus bifasciatus Kimbe Bay (New Britain). Doublebar goatfish Parupeneus crassilabris Kimbe Bay (New Britain).

Freckled goatfish Upeneus tragula

Whiptails/monocle breams Nemipteridae

Bridled monocle-bream Scolopsis bilineata at most snorkeling sites.

Monogram monocle-bream Scolopsis monogramma widespread.

Lined monocle-bream Scolopsis lineata Kimbe Bay (New Britain).

**Boxfish** Ostraciidae

Spotted boxfish Ostracion meleagris widespread.

**Flatheads** Platyephalidae

Crocodilefish Cymbacephalus beauforti Lissenung (New Ireland).

**Angelfish** Pomacanthidae

Pearl-scaled angelfish Centropyge vroliki widespread.

Vermiculated angelfish Chaetodontoplus mesoleucus Kimbe Bay (New Britain). Regal angelfish Pygoplites diacanthus widespread and common. Blue-girdled angelfish Pomacanthus navarctius Kimbe Bay (New Britain). Pomacanthus sexstriatus

Six-banded angelfish widespread.

Yellowmark angelfish Pomacanthus Lissenung (New Ireland).

xanthometopon

Damsels & sergeants Pomacentridae

Blacktail sergeant Abudefduf lorenzi Lissenung (New Ireland).
Scissortail sergeant Abudefduf sexfasciatus Lissenung (New Ireland).
Banded sergeant Abudefduf septemfasciatus Kimbe Bay (New Britain).
Indo-Pacific sergeant Abudefduf vaigiensis at all snorkeling sites.

Golden damsel Amblyglyphidodon aureus common in Kimbe Bay (New Britain).

Staghorn damsel Amblyglyphidodon curacao widespread.

Orange-finned anemonefish Amphiprion chrysopterus frequent in Kimbe Bay (New Britain).

Clark's anemonefish *Amphiprion clarkii* at most snorkeling sites.

Red & black anemonefish Amphiprion melanopus scattered sites in Kimbe Bay (New Britain). Eastern clown anemonefish Amphiprion percula scattered throughout but not common.

Pink anemonefish Amphiprion perideraion Kimbe Bay (New Britain).

Orange anemonefish Amphiprion sandaracinos Kimbe Bay (New Britain).

White-bonnet anemonefish *Amphiprion leucokranos* Scarce in Kimbe Bay (New Britain).

Sapphire damsel Chrysiptera cyanea Widespread and common.

Surge demoiselle *Chrysiptera leucopoma* frequent in shallow areas of reef.

Yellow axil chromis Chromis xanthochira Lissenung.
Black-tailed dascyllus Dascyllus melanurus widespread.
Reticulated dascyllus Dascyllus reticulatus widespread.

Three-spot dascyllus Dascyllus trimaculatus scattered throughout.

Spinecheek anemonefish Premnas biaculeatus Kimbe Bay (New Britain).

Melanesian damsel *Pomocentrus nigromanus* Lissenung. Blackvent damsel *Neoglyphidodon melanotus* widespread.

Black damsel Neoglyphidodon melas common throughout.

Yellowtail damsel Neoglyphidodon nigroris several reefs in Kimbe Bay (New Britain).

Dartfish Ptereleotridae

Twotone Dartfish Ptereleotris evides Kimbe Bay (New Britain).

Parrotfish Scaridae

Bumphead parrotfish Bulbometopon muricatum A small shoal of these monsters at Kimbe Island (New

Britain).

Bleeker's parrotfish *Chlorurus bleekeri* common. At all snorkeling sites.

Steephead parrotfish Chlorurus microrhinus scattered throughout.

Yellow-barred parrotfish Scarus dimidiatus widespread.
Swarthy parrotfish Scarus niger widespread.

Lionfish Scorpaenidae

Common lionfish Pterois volitans Kimbe Bay (New Britain).

Rockcods Serranidae

Peacock rock cod *Cephalopholis argus* widespread. Black-tipped rock cod *Epinephelus fasciatus* Lissenung.

Tunas & mackerels Scombridae

Dogtooth tuna Gymnosarda unicolor Kimbe Bay (New Britain). Bigmouth mackerel Rastrelliger kanagurta Kimbe Bay (New Britain).

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Rabbitfish Siganidae

Golden rabbitfish Siganus guttatus at most snorkeling sites.

Siganus lineatus Kimbe Bay (New Britain).

Masked rabbitfish Siganus puellus Kimbe Bay (New Britain).
Gold-spotted spinefoot Siganus punctatus Lissenung (New Ireland).

Virgate rabbitfish Siganus virgatus scattered.

Foxface rabbitfish Siganus vulpinus at most snorkeling sites.

Barracudas Sphyraenidae

Great barracuda Sphyraena barracuda Kimbe Island (New Britain) and Lissenung (New Ireland).

Pipefish Sygnathidae

Banded pipefish Corythoichthys intestinalis Lissenung (New Ireland).

Grunters Terapontidae

Crescent-banded Grunter Terapon jarbua Lissenung (New Ireland).

Pufferfish Tetraodontidae

Masked pufferfishArothron diadematusKimbe Bay (New Britain).Black-spotted pufferArothron nigropunctatusat most snorkeling sites.Star pufferArothron stellatusKimbe Bay (New Britain).

Moorish idol Zanclidae

Moorish Idol Zanclus cornutus at all snorkeling sites.

**Critters etc** 

Leopard sea cucumberBohadschia argusKimbe Bay (New Britain).Graeff's sea cucumberBohadschia graeffeiat most snorkeling sites.Edible sea cucumberHolothuria edulisKimbe Bay (New Britain).

Giant sea cucumber Thelonota anax very large – 30cm plus, Kimbe Bay (New Britain).

Blue sea star Linckia laevigata at most snorkeling sites.
Cushion star Culcita novaguinea Kimbe Bay (New Britain).
Crown-of-thorns Acanthaster planci Kimbe Bay (New Britain).

Nodose sea star Protooreaster nodosus Abundant in sandy areas around Lissenung (New

Ireland).

Noble feather star

Comanthina nobilis

Kimbe Bay (New Britain).

Beautiful feather star

Himerometra robustipinna

Kimbe Bay (New Britain).

Kimbe Bay (New Britain).

Cenometra bella

at most snorkeling sites.

Sepioteuthis lessoniana

Kimbe Bay (New Britain).

Kimbe Bay (New Britain).

Kimbe Bay (New Britain).

Anemone crab Neopetrolisthes maculatus Skulking in anemones on the house reef at Lissenung

(New Ireland).

#### Systematic List Number 2 Butterflies

The nomenclature and taxonomy is taken from Michael Parsons *The Butterflies of Papua New Guinea* (1999 Academic Press). This list is incomplete as we lacked a field guide...

Papilionidae

Ornithoptera priamus a number seen at various localities in West New Britain, including offshore islands,

mostly in flight, but the gardens at Walindi Lodge were excellent for getting close to

this species.

Papilio ulysses Walindi Lodge grounds.

Pieridae

Catopsilia pomona Walindi (New Britain).

Lycaenidae

Luthrodes cleotas Walindi (New Britain) and New Ireland.

Psychonotis sp. Garu WMA.

Nymphalidae

Hypolimnas alimena Garu WMA. Parthenos sylvia widespread.

Taenaris phorcas Walindi (New Britain).

Vindula arsinoe a Cruiser. Various forested areas in West New Britain.

#### Systematic List Number 3 Odonata

Rhinocypha tincta Only at Haella Nursery (New Britain).

Agriocnemis femina Small numbers at Kulu River and Garu WMA (New Britain). Also a few on New

Ireland.

Mortonagrion martini Just one male found at Garu WMA (New Britain) near the Hot River. Endemic to

Melanesia.

Pseudagrion lorenzi Common in and en route to Garu WMA (New Britain). Recently-described and

endemic to New Britain.

Pseudagrion microcephalum Two in tandem en route to Garu (in the oil palm). Surprisingly scarce.

Xiphiagrion cyanomelas Frequently encountered at Garu WMA (New Britain). Also recorded on New

Ireland.

Nososticta africana A scattering of records at Garu WMA and Haella Nursery (New Britain). Also

recorded on New Ireland. Endemic to Melanesia.

Nososticta commutata One female at Haella Nursery (New Britain). Endemic to New Britain.

Hemicordulia sp. Swarms on New Ireland. No records of this genus on the island... Probably two on

Lissenung on the last morning too.

Ictinogomphus leiftincki A few at PAU (Port Moresby).

Anax sp. A few at Garu WMA and a single on New Ireland.

Gynacantha kirbyi Recorded at Garu and Kulu River (New Britain).

Agrionoptera insignis similis Garu and Kulu River (New Britain). Also on New Ireland. This subspecies is

sometimes accorded species status.

Diplacina fulgens Two males at Haella Nursery (New Britain). Endemic to New Britain.

Diplacodes trivialis One in oil palm en route to Garu WMA (New Britain). Another at PAU (Port

Moresby).

Nannophlebia imitans A few on the river at Haella Nursery (New Britain).

Nannophya pygmaea Kulu River and Garu WMA (New Britain). The race on New Britain seems to have

much broader habitat requirements then elsewhere.

Neurothemis stigmatizans

bramina

widespread (New Britain and Ireland).

Orthetrum serapia Garu and Kulu River (New Britain). Also on New Ireland.

Orthetrum villosovittatum Garu WMA (New Britain). The subspecies bismarckianum is endemic to New Britain.

We also had one female on New Ireland.

Pantala flavescens Scattered records (New Britain and Ireland).

Rhyothemis phyllis Recorded flying around during our last breakfast in Port Moresby.

Rhyothemis resplendens A few in New Ireland.

Tholymis tillarga Oil palm wetlands at dusk (New Britain). Also at PAU (Port Moresby).

Tramea loewii Apparently widespread on New Britain, even seen out at sea often in tandem! Trithemis sp. A female of a known but undescribed taxon at the Kulu River (New Britain).

*Zyxomma multinervorum* One patrolling at dawn at Walindi (New Britain).

#### Systematic List Number 4 Birds

The nomenclature and taxonomy is taken from the *Birds of New Guinea* (1986 Princeton University Press) in places updated with Phil Gregory's *Birds of New Guinea and Associated Islands – a checklist* (2008).

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Melanesian scrubfowl	Megapodius eremita	Impressive colony at Garu along the banks of the Hot River there and one adult seen (New Britain). A confused chick rocked up at the bar at Walindi that night too. Lots at dawn in the nest holes on Lissenung (New Ireland). Endemic to Melanesia.
Wedge-tailed shearwater	Puffinus pacificus	One close to the boat when moored in Kimbe Bay (New Britain).
Wandering whistling-duck	Dendrocygna arcuata	PAU (Port Moresby).
Grey teal	Anas gracilis	PAU (Port Moresby).
Pacific black duck	Anas superciliosa	New Britain and PAU (Port Moresby).
Glossy ibis	Plegadis falcinellus	PAU (Port Moresby).
Australian white ibis	Threskiornis molucca	PAU (Port Moresby).
Royal spoonbill	Platalea regia	PAU (Port Moresby).
Pied heron	Ardea picata	PAU (Port Moresby).
Great egret	Egretta alba	Namundo Plantation (New Britain). Also at PAU (Port
0	O	Moresby).
Intermediate egret	Egretta intermedia	PAU (Port Moresby).
Pacific reef-egret	Egretta sacra	Walindi (New Britain). Also a few on New Ireland coast.
Eastern cattle egret	Bubulcus coromandelicus	Kavieng airport (New Ireland) and PAU (Port Moresby).
Nankeen night-heron	Nycticorax caledonicus	Garu and Kulu River (New Britain).
Black bittern	Ixobrychus flavicollis	Kulu River (New Britain).
Little black cormorant	Phalacrocorax sulcirostris	PAU (Port Moresby).
Little pied cormorant	Microcarbo melanoleucos	PAU (Port Moresby).
Greater frigatebird	Fregata minor	Kimbe Bay (New Britain).
Lesser frigatebird	Fregata ariel	Kimbe Bay (New Britain). Also on New Ireland.
Brown booby	Sula leucogastor	Kimbe Bay (New Britain).
Little pied cormorant	Phalacrocorax melanoleucos	Kulu River (New Britain).
Osprey	Pandion haliaetus	Walindi (New Britain).
Brahminy kite	Haliastur indus	Walindi (New Britain).
Variable goshawk	Accipiter hiogaster	Garu and Kulu River (New Britain). Also on New Ireland.
		The very pale race dampieri on New Britain.
White-bellied sea eagle	Haliaeetus leucogaster	Walindi (New Britain).
Pacific baza	Aviceda subcristata	Walindi (New Britain).
Black-backed swamphen	Porphyrio melanotus	Namundo Plantation (New Britain).
Dusky moorhen	Gallinula tenebrosa	PAU (Port Moresby).
Pale-vented bush-hen	Amaurornis moluccana	en route to Garu WMA (New Britain).
White-browed crake	Porzana cinerea	Walindi (New Britain).
Buff-banded rail	Gallirallus philippensis	en route to Garu WMA (New Britain). Also a few after rain along the road on New Ireland.
Pink-legged rail	Gallirallus insignis	Pair along the river at dusk (Kulu River, New Britain). A flightless trip highlight for some. Endemic to New Britain.

Comb-crested jacana Irediparra gallinacea PAU (Port Moresby). Beach thick-knee Esacus magnirostris Three at Restorff Island on our first visit. Masked lapwing Vanellus miles PAU (Port Moresby). Pacific golden plover Pluvialis fulva Hoskins and Namundo Plantation (New Britain). One at PAU (Port Moresby). Greater sand plover Charadrius leschenaultii One at Walindi (New Britain). Also at Kavieng airport (New Ireland). Swinhoe's snipe Gallinago megala One at PAU (Port Moresby). Whimbrel Numenius phaeopus Hoskins and Walindi (New Britain). Turnstone Arenaria interpres Two in Kimbe Bay (New Britain). Common sandpiper Actitis hypoleucos Walindi and elsewhere thereabouts (New Britain, New Ireland and Port Moresby). Marsh sandpiper One at Namundo Plantation (New Britain). Tringa stagnatilis Grey-tailed tattler Tringa brevipes Walindi (New Britain). Sharp-tailed sandpiper Calidris acuminata Small numbers at Namundo Plantation (New Britain). Common tern Sterna hirundo Walindi (New Britain). Crested tern Sterna bergii Walindi (New Britain). Little tern Sterna albifrons Walindi (New Britain). Black-naped tern Sterna sumatrana A few offshore from Lissenung (New Ireland). Black noddy Anous minutus Common in Kimbe Bay, especially Restorff Island (New Britain). A few offshore in New Irleand too. Peaceful dove PAU (Port Moresby). Geopelia striata Bar-shouldered dove Geopelia humeralis PAU (Port Moresby). Slender-billed cuckoo-dove Macropygia amboinensis One at Garu WMA (New Britain). Mackinlay's cuckoo-dove Macropygia mackinlayi One on Kimbe Island (New Britain). Stephan's dove Chalcophaps stephani Kulu River and Namundo Plantation (New Britain). Nicobar pigeon Caloenas nicobarica Restorff and Kimbe Island (New Britain). Orange-fronted fruit-dove Ptilinopus aurantiifrons PAU (Port Moresby). Superb fruit-dove Ptilinopus superbus Alf found us a female on New Ireland. White-bibbed fruit-dove Ptilinopus rivoli New Ireland. PAU (Port Moresby). Orange-bellied fruit-dove Ptilinopus iozonu Yellow-bibbed fruit-dove Ptilinopus solomonensis One on Kimbe Island was a surprise. Knob-billed fruit-dove Ptilinopus insolitus Kulu River (New Britain). Also on New Ireland. Feral pigeon Columba livia Port Moresby. Red-knobbed imperial-Ducula rubricera Walindi and Kulu River (New Britain). Also on New pigeon Ireland. A Melanesian endemic. Island imperial-pigeon Ducula pristrinaria Kimbe Bay islands (New Britain). Ducula spilorrhoa Torresian imperial-pigeon PAU (Port Moresby). Ducula subflavescens Namundo Plantation and one outside Hoskins. Also a Yellow-tinted imperialfew in flight on New Ireland. pigeon New Britain and Ireland. Coconut lorikeet Trichoglossus haematodus Purple-bellied lory Lorius hypoinochrous Garu and Kulu River (New Britain). Kulu River (New Britain) and Lissenung (New Ireland). Red-flanked lorikeet Charmosyna placentas Blue-eyed cockatoo Cacatua ophthalmica Garu and Kulu River (New Britain). Endemic to New Britain. Buff-faced pygmy-parrot Micropsitta pusio Garu and Walindi (New Britain). Song parrot Geoffroyus heteroclitus A male on Lissenung was a surprise. Walindi, Garu and Kulu River (New Britain). Also on Eclectus parrot Eclectus roratus

New Ireland and Lissenung (New Ireland). One over at PAU (Port Moresby). Pleasantly common. Brush cuckoo Cacomantis variolosus Several on New Ireland. Channel-billed cuckoo Scythrops novaeholladae Two at Garu WMA (New Britain). [Pheasant coucal] Centropus phasianus Heard at PAU (Port Moresby). Violaceous coucal Garu and Kulu River (New Britain). Endemic to the Centropus violaceus Bismarcks. White-necked coucal *Centropus ateralbus* Walindi and Kulu River (New Britain). Also on New Ireland and Lissenung (New Ireland). Endemic to the Bismarcks. Papuan frogmouth Podargus papuensis Three found roosting at PAU (Port Moresby). Glossy swiftlet Collocalia esculenta Kulu River (New Britain). Uniform swiftlet Aerodramus vanikorensis Namundo Plantation (New Britain). Moustached tree-swift Hemiprocne mystacea Walindi (New Britain) and New Ireland. [Black-capped paradise-Tanysiptera nigriceps Heard at Garu and Kulu River (New Britain). Endemic to kingfisher] New Britain. Blue-winged kookaburra Dacelo leachi One frog-whacking individual watched at length at PAU (Port Moresby). White-mantled kingfisher Todiramphus albonotata One seen well at Garu WMA (New Britain). Endemic to New Britain. Collared kingfisher One at Kulu River (New Britain). Todiramphus chloris Sacred kingfisher Todiramphus sanctus Two on Kimbe Island (New Britain). Lissenung (New Ireland). Beach kingfisher Todiramphus saurophaga Restorff and Kimbe Island (New Britain). Common kingfisher Alcedo atthis Walindi and Kulu River (New Britain). One at PAU (Port Moresby). Dollarbird *Eurystomus orientalis* Blyth's hornbill Aceros plicatus Kulu River, Walindi and Garu WMA (New Britain). Also a few on New Ireland. Fawn-breasted bowerbird Chlamydera cerviniventris PAU (Port Moresby), including a look at the bower. Ashy myzomela Frequently encountered in the garden at Walindi (New Myzomela cineracea Britain). Endemic to New Britain. Bismarck black myzomela Myzomela pammelaena Common on Lissenung (New Ireland). Sclater's myzomela Myzomela sclateri islands in Kimbe Bay, West New Britain. Endemic to New Britain. Rufous-banded honeyeater PAU (Port Moresby). Conopophila albogularis New Guinea friarbird Philomon novaequineae PAU (Port Moresby). New Britain friarbird Walindi (New Britain). Endemic to New Britain. Philemon cockerelli Black-backed butcherbird Cracticus mentalis PAU (Port Moresby). Varied triller Lalage leucamela New Ireland. White-bellied cuckoo-shrike Coracina papuensis Kulu River (New Britain). Also on New Ireland. Common cicadabird Coracina tenuirostris New Ireland (3). Alf found us a single female on New Ireland. Bismarck whistler Pachycephala citreogaster Pachycephala melanura Mangrove golden whistler islands in Kimbe Bay (New Britain). Also on Lissenung (New Ireland). Dicrurus hottentotus Kulu River (New Britain). Spangled drongo Island monarch Monarcha cinerascens Restorff and Kimbe Island (New Britain). Shining flycatcher Myiagra alecto Walindi (New Britain). Islands in Kimbe Bay (New

Britain).

Papuan grassbird Megalurus macrurus Namundo Plantation (New Britain).
Australian reed-warbler Acrocephalus australis Namundo Plantation (New Britain).
Golden-headed cisticola Cisticola exilis Namundo Plantation (New Britain).
White-breasted wood- Artamus leucorhynchus PAU (Port Moresby).

White-breasted wood- Artamus leucorhynchus PAU (Port Moresby) swallow

Northern fantail Rhipidura rufiventris Garu WMA (New Britain). Also on New Ireland.

Willie wagtail Rhipidura leucophrys widespread.

Green figbird Sphecotheres viridis PAU (Port Moresby).

Brown oriole Oriolus szalayi One at PAU (Port Moresby).

Torresian crow Corvus orru Port Moresby.

Bismarck crow Corvus insularis New Britain. Endemic to the Bismarcks.

Pacific swallow Hirundo tahitica widespread.

Eastern yellow wagtail Motacilla tschutschensis Namundo Plantation (4).

Singing starling Aplonis cantoroides occasional in New Britain but vastly outnumbered at sites

visited by the next species. Also at Lissenung (New

Ireland).

Metallic starling Aplonis metallica New Britain and New Ireland.

Yellow-faced myna Mino dumontii PAU (Port Moresby).

Long-tailed myna Mino kreffti Kulu River (New Britain). Also on New Ireland. A

Melanesian endemic.

Red-banded flowerpecker Dicaeum eximium Walindi (New Britain). Also on New Ireland.

Black sunbird Nectarinia aspasia Walindi (New Britain). Also on Lissenung and New

Ireland.

Yellow-bellied sunbird Cinnyris jugularis PAU (Port Moresby). Grey-headed mannikin Lonchura caniceps PAU (Port Moresby).

Hunstein's mannikin Lonchura hunsteinii New Ireland. Endemic to that island.

Buff-bellied mannikin Lonchura melaena Namundo Plantation (New Britain). Endemic to the

Bismarck archipelago.

Eurasian tree sparrow Passer montanus Walindi and Kimbe (New Britain).

House sparrow Passer domesticus Port Moresby.

#### Systematic List Number 5 Mammals

Great flying-fox *Pteropus neohibernicus* Scattered records in the Bismarck Archipelago. Bottle-nosed dolphin *Tursiops truncatus* Kimbe Bay (New Britain).

#### **Systematic List Number 6 Reptiles**

Estuarine crocodile *Crocodylus porosus* One small one on the Kulu River on our first visit. a blind worm *Rhamphotyphlops* sp. Walindi (New Britain).