# THE ROYAL AIR FORCE ORNITHOLOGICAL SOCIETY EXPEDITION TO BELIZE 19 FEBRUARY-4 MARCH 1992 by Squadron Leader Mike Blair RAF

(Editors Note: This abbreviated report has been extracted from the main expedition report, copies of which are held by expedition members and by the RAFOS Librarian. The main report includes articles on the natural history of Belize and general ornithological observations.)

# INTRODUCTION

For a variety of reasons, the 1992 RAFOS Expedition to Belize was mounted at short notice. As a consequence, the duration of the Expedition in-country was limited to two weeks. Accordingly, a great deal of careful planning and preparation was done beforehand, mainly to cover as many contingencies as possible. The Expedition was dependent on military sources for camping equipment, and would be required to keep the military authorities informed of Expedition party locations and movements, not only to avoid clashing with military activities, but also for medical rescue purposes.

A number of detailed plans were therefore prepared, with the intention of adopting the most suitable, once the Expedition was in-country and fully briefed. A team of 12 was selected, but in the event, only 8 seats were available on the flight on 19 Feb 92; one of those shut off was able to join the Expedition a week later. The general principle adopted for the expedition was to identify suitable locations for base camp, and depending on the conditions and constraints facing the team on arrival, select the best, and operate from there. Although it was known that the team would not have the full-time use of military vehicles, and that a civilian vehicle would have to be hired, the team were able to obtain a 4-ton truck from 7 Gurkha Rifles to transport the camping equipment to base camp, and again when camp was struck.

The flight routed through Gander, Newfoundland, where the temperature was minus  $12^{\circ}$ C, but in Belize there was a  $40^{\circ}$  Centigrade difference! The plans allowed for three to four days of acclimatization at Airport Camp; that period would be utilized in becoming acquainted with the local avifauna. A very good cross-section of bird families can be seen on, or in the environs of, Airport Camp. During that period, the team would reconnoitre for suitable base camp sites.

On arrival, it became plain that the preferred area of Guacamallo Bridge would be inaccessible because of intensive military training; we could not have picked a busier time! The roads south to the Cockscomb basin had seen some minor banditry which was not expected to prevail for much longer, but at that moment, the authorities preferred that we did not risk complicating matters by going in that direction. In any case, an outbreak of cholera further to the south ruled out the area completely. Fortunately, another favoured option, to go to the Northern Hardwood Forest and Lagoons, was relatively free of constraints. Amongst those shut off the flight was the team radio operator, so the selection of base camp, had to allow for reasonable access to a community telephone.

#### AIMS OF THE EXPEDITION

The aims of the expedition were: to carry out ornithological studies of the birds of Belize in the jungle, swamps, and coastline areas; follow up previous work carried out by the American Ornithological Union, the Carnegie Museum of Natural History Pittsburgh, the Army Ornithological Society and RAFOS; photograph birds; identify, study, and record the species observed; offer freshly dead birds found to the Royal Scottish Museum.

#### **CHOICE OF BASE CAMP**

The basis of team selection had been that one quarter to one half had to have previous jungle experience, and up to 25% should have had little or no expedition experience. At least half the team had to have proven ornithological experience. Familiarity with the avifauna of Belize was a bonus. The unavailability of ringers for this Expedition meant that to obtain sightings of birds normally seen only in the nets, the team would have to depend heavily upon the expertise and fieldcraft of the local people. The team therefore had sufficient experience to spend periods in remote areas.

Preparation included extensive study of maps and general literature about Belize, most of which was obtained from the RAFOS Library. Records of previous Expeditions proved very helpful, and the most useful ornithological homework proved to be Peterson's "Guide to the Birds of Mexico", Ridgeway's "Field Guide to the Birds of Panama", whose second edition has been expanded to cover the birds of Costa Rica, Honduras, and Guatemala, and the Carnegie Museum of Natural History, Pittsburgh, "Checklist of the Birds of Belize". The theoretical list of suitable sites for base camp had reduced drastically because of practical reasons, but from maps and local information, there were still many potential choices.

After two full days spent in site reconnaissance, a location near the village of Crooked Tree proved to be the outright winner. It had adjacent good water supplies, excellent access to trails, and the local landowners and inhabitants were welcoming. It also had a wide variety of birds, and had a community telephone. The Expedition was fortunate in having as a source of local advice and excellent ornithological knowledge Mr Steven Tillett, who works as a warden on the Crooked Tree Reserve. Thanks to him, the recommended camp site proved to be relatively free of biting insects, despite being next to an arm of the Northern Lagoon, complete with resident Morelet's crocodile!

#### AREAS AND SITES VISITED

The Team Leader met with the President of the Belize Audubon Society, Mr Philip Balderamos, whose support was very much appreciated. Mr Balderamos suggested particular areas for ornithological surveys. These proved to be rich in variety of species. In the local area, which was well-explored, there was an abundance of swamp, creeks and lagoons, and extensive areas of tropical pine, oak, and swamp forest. Without the indispensable help of Steve Tillett, the Expedition would not have discovered many of the prime locations, let alone have seen the birds inhabiting them. Becoming lost would have been very easy to do. The President of the Belize Audubon Society suggested that full days be spent at the following more distant locations:

<u>Altun Ha</u>. The magnificent ruins of the Maya temples at Altun Ha provide, by default, a wide range of habitats for Belize birds. Primary and secondary jungle hem in the site on three sides, but the cleared edges have a scrub border rich in both resident and migrant passerines. Isolated trees could be viewed from many angles to identify their residents, and the pyramid tops give excellent sightlines over the surrounding jungle. An everglade meadow, with waterbirds, adjoins, and trails through the jungle at the rear of the site lead past clearings and swamps.

**Bermudian Landing** A wide river, cultivated areas, tropical oak forest, primary and secondary jungle containing Black Howler Monkey, and dense bamboo and thorn scrub, again provided a wide variety of habitat for resident and migrant birds. Because knowledgeable guides were available, the range of species found was wide. A short distance further on is Big Falls (North Bank). Because of doubt about the suitability of the track from the Western Highway to Big Falls from the south, the team explored this option, but with limited success in terms of species recorded.

Freetown Sibun, Belize Zoo and Guanacaste Park. The road leading down to Freetown Sibun was bordered mainly by established secondary jungle, with patches of original primary jungle. Here too, the numbers and range of birds were high. Belize Zoo, whose emphasis on the parts the fauna of Belize play in the environment could well be emulated by better-known zoos, proved to be a rich source of observations, not only within the extensive cover available inside and outside the compounds, but also in the scrub and tropical pines bordering the zoo. Guanacaste Park is a small reserve at the junction of the Western and Southern Highways, but it contains a wide variety of mature primary jungle.

<u>Caye Caulker</u>. The last full day before the team returned to UK was spent at Caye Caulker, where a range of birds exists which are less common or not found on the Belize mainland. The mangroves to the south of the island proved particularly rewarding to those who had adequate insect repellent. Dr Ellen MacRae has spent many years here campaigning to have this area made into a reserve, particularly because similar habitat on other Cayes has been lost.

A number of other sites were visited for shorter periods, such as the newly created Ladyville Shrimp Farm (where permission should be sought beforchand) near Airport Camp, Belize Harbour, and the ponds near the oil refinery. It was encouraging to see that the local people were involved with clearing up these ponds, and that the level of awareness was high. Annotated maps of the expedition areas in Belize are shown on pages 8 and 26.

#### HEALTH

Shade temperatures reached 32 degrees Celsius on several days, and on all but one of the cooler, cloudier days, the humidity was high. Because the excellent briefing advice on the avoidance of heat injury was strictly applied, the team had no instances of dehydration and overheating. On the other hand, considerable sustained physical and mental effort was required to achieve the daily planned tasks. Severe sunburn was avoided. The team suffered no stomach upsets, nor prickly heat, nor injuries. No one experienced insect- or plant-induced infections or poisoning, although there is a wide variety of both hazards in Belize. Awareness of the risks of brushing against seemingly innocuous plants was emphasised throughout, and this precaution was reinforced by the local guides. The team was also fortunate in the low level of mosquito, sandfly, blackfly, and tick bites encountered. Several snakes were seen, but all moving away from the discoverers.

Several large globular spiders were encountered in the tents, one inside a mosquito net, and one team member found a 12cm scorpion under his camp bed. Subsequent mosquito net and bed checks were meticulous. Anti-malarial precautions were strictly observed during, and subsequent to the Expedition. Belize has particularly virulent forms of malaria, and there have been cases amongst British servicemen.

#### **ORNITHOLOGICAL RESULTS AND OBSERVATIONS**

It is clear that the detailed prior and in-country planning, and the scale of the applied effort and dedication has produced results beyond those reasonably expected, in that over 250 species were recorded in the period, including good records for two species for which there had been only one record prior to 1986. Apart from the aim to collect birds found freshly dead, which was frustrated by finding only a few putrefying corpses, the Expedition met all its aims. The Systematic List is at Annex A.

A number of observations are deserving of greater detail than can be included in the Systematic List, and are discussed in the main report. Some may merely repeat the experience of others, but are worth emphasis nevertheless to remind those who intend to observe the avifauna of this region of the difficulties of obtaining positive identification.

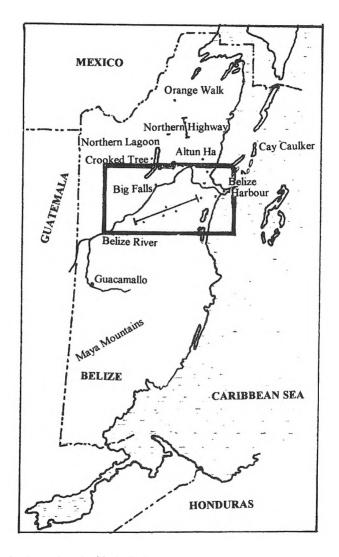
#### ACKNOWLEDGEMENTS

The team received excellent support from all concerned, and we are particularly grateful for the help received for an Expedition which was mounted at relatively short notice. We take pleasure in expressing our thanks formally to: Ministry of Defence, TP Ed 2(RAF), Mov Pax 1(RAF); Headquarters Strike Command, CPEdO; Headquarters British Forces Belize, Commander British Forces, OC Logs Bn, Air Commander, SO3G3; Commanding Officers of Expedition Members; Units of Airport Camp Belize, OC RAF Belize, 7 GR MTO and 24 RCT.

Lastly, we are particularly grateful for the information and assistance given by many Belize citizens, especially; Mr Philip Balderamos, President Belize Audubon Society; and Mr Steven Tillett, Warden, Crooked Tree Reserve without whose help the Expedition would have been only a fraction as successful. Their commitment to, and understanding of, the natural history of Belize, and its integration at a fundamental level into Belize society, their determination to address the problems facing conservation in that country, and the scale of their effort, are an object lesson to conservationists in countries where resources are in infinitely greater supply.

#### **EXPEDITION MEMBERS**

Squadron Leader M J Blair BSc RAF	Team Leader
Flight Sergeant D Osborn ARPS EFIAP	Recorder
Flight Sergeant C J Sparks MISM MBOU	Treasurer
Chief Technician S Heather	MT
Sgt D Bingham	Natural History Collator
Sgt S Davies	Logistics & Rations
Cpl R Bayford	Camp Organizer
Cpl K Haigh	Photographer
SAC G Etherington	Assistant Recorder
Mr Steven Tillett	Warden, Crooked Tree Reserve



See more detailed Beize Map No 2: (Belize River / Western Highway Area) on Page 26.

# NYSTEMATIC LIST OF BIRDS RECORDED IN BELIZE DURING THE PERIOD 19 FEB - 4 MAR 1992 by David Osborn ARPS EFIAP

(Editors Note: The following systematic list has been extracted from the full list in the main report. Details of geographical locations and abbreviations, diary of events and the diary of locations surveyed have been excluded from this brief report, but they can be found in the main report.)

Nomenclature and References Used There were no ringers (banders) in the team, and so all records are of observations. The order followed in the systematic list generally agrees with that adopted in A Guide to the Birds of Panama (2nd Edition), Ridgeley and Gwynne (1989), as does the nomenclature, which is basically that of the American Ornithological Union Checklist of North American Birds, 6th Edition (1983) and Supplement (1985). For those species not listed by Ridgeley and Gwynne, reference was made firstly to the National Geographic Society's Field Guide to the Birds of North America (2nd Edition) (1987), which also follows the AOU Checklist (1983) and Supplement (1985), secondly, reference was made to the Checklist of the Birds of Belize, Wood, Leberman and Weyer, Carnegie Museum of Natural History (1986), which publication adheres to the same AOU Checklist and Supplement. Seabird identification follows Seabirds of the World, (2nd Edition) (1989) Harrison. Finally, use was made of Mexican Birds, Peterson and Chalif, (1973), for field marks and as a source of information or for clarification. A Complete Checklist of the Birds of the World (2nd Edition), Howard and Moore, (1991) was used in the preparation of this report for cross-reference purposes, but to maintain clarity, we declined to use the Peters-based nomenclature. Extensive field notes were called for by the Recorder for any bird whose presence in Belize, according to the authorities quoted above, was in any way uncommon or anomalous. These field notes are held by the Librarian, and are quoted in the Systematic List. English or Linnaean names more familiar to earlier generations are occasionally quoted, and are placed in brackets.

<u>Structure of Entries in the Systematic List</u> The Expedition had to make best use of the very limited time, and with the need to cover as many as possible of the sites recommended by the Belize Audubon Society, the observers paid particular attention to counting the birds seen. Within these limitations, the data will give an approximation of the density of the more obvious migrant and breeding species which are known to be regularly present in those areas at that time of year. The figures for skulking species will of course not have any bearing on their density. However, any records which are unusual, or which are of scarce birds (according to the criteria of the Belize Checklist), are probably unusual more to a lack of extensive birding coverage (despite the remarkable efforts and initiatives of the Belize Audubon Society), and less to the likelihood of exceptional vagrancy.

<u>Species Status (Temporal Distribution)</u> The adopted status abbreviations follow the Checklist of the Birds of Belize, 1986 and are shown immediately after the vernacular names below:

- PR Permanent Resident
- WR Winter Resident
- SR Summer Resident
- T Transient/ Passage Migrant
- WV Winter Visitant (Occasionally found, but not a regular)
- A Accidental

Least Grebe PR Tachybaptus dominicus(Podiceps dominicus) The maximum count was of two birds. Pied-billed Grebe PR Podilymbus podiceps The maximum count was of 6 birds on 22 Feb. Brown Pelican PR Pelecanus occidentalis The maximum counts were of 7 + 12 on 3 Mar Double-crested Cormorant PR Phalacrocorax auritus The maximum count was Order 3 on 3 Mar Olivaceous Cormorant PR Phalacrocorax olivaceus Recorded as Order 2 and Order 3. Anhinga PR Anhinga anhinga The maximum count was 7 birds on 29 Feb. Magnificent Frigatebird PR Fregata magnificens The maximum counts were of 19 birds on 21 Feb and 13 birds on 3 Mar, all ages and sexes Bare-throated Tiger Heron PR Tigrisoma mexicanum One bird seen on 28 and 29 Feb. Great Blue Heron PR Ardea herodias The maximum count was of 7 birds on 29 Feb. A white-phase bird was recorded Great Egret PRCasmerodius albus (Egretia alba) Recorded at 8 sites, Order 2, at three of those locations. Snowy Egret PR Egretta thula Recorded at 7 sites, Order 2 at two of those sites. Little Blue Heron WR Egretta caerulea The maximum count was of 14 birds on 29 Feb White-plumaged immature seen. Tricolored Heron PR Egretta tricolor (Louisiana Heron) The maximum counts were of three birds on 26 Feb, and 4 birds on 29 Feb Reddish Egret PR Egretta rufescens One immature bird was noted on 22 Feb. Cattle Egret PR Bubulcus ibis Recorded at 7 locations, Order 2 at two of those sites Green-backed Heron PR Butorides striatus Recorded at 8 sites, Order 2 at one location, max seen was 5 birds on 21 Feb.

Black-crowned Night Heron PR         Nycticorax nycticorax           Seen at three locations; maximum counts three on 29 Feb and 5 on 2 Mar.			
Yellow-crowned Night Heron PR         Nycticorax violaceus           Seen at three sites; max counts were of 3 birds 29 Feb and 5 birds on 2 Mar; photographed.			
<b>Boat-billed Heron</b> Four birds from a tree-nesting	PR g colony seen o	Cochlearius cochlearius n 29 February.	
White Ibis Seen at 5 sites, maximum co	PR unts were of 12	<i>Eudocimus albus</i> 2 birds on 26 Feb and 20 birds on 1 Mar.	
Glossy Ibis Two birds seen on 21 Februa	PR .ry.	Plegadis falcinellus	
<b>Roseate Spoonbill</b> Two birds on 2 March.	PR	Ajaia ajaja	
Jabiru Sightings of single birds only	PR at three sites o	Jabiru mycteria(Ephippiorhynchus mycteria) n 21, 22 and 28 Feb respectively.	
Wood Stork Seen at three sites; maximum	PR n counts were o	Mycteria americana (American Wood Ibis) of 8 birds on 25 Feb and 6 on 28 Feb.	
Black-bellied Whistling-duck PR Dendrocygna autumnalis(Red-billed Whistling Duck) Seen only at one site; max counts were of 7 adults on 22 Feb; family group of 8 on 27 Feb.			
Muscovy Duck Two birds on 22 Feb.	PR	Cairina moschata	
Blue-winged Teal Seen only at one site; maxim	T-WV	Anas discors of 20+ birds on 29 Feb.	
Ring-necked DuckAAythya collarisSeen only at one site. Some 50+ birds, male and female, were identified during the period 27February to 1 March. Because the Checklist of the Birds of Belize has only one record, further observations at the same time of year are required to establish whether the 1992 observations are exceptional or representative. It is noteworthy that so few Lesser Scaup, A. affinis, were identified, but that on the Northern Lagoon there were some 300 Aythya duck which remained too far away to be identified for certain.			
Lesser Scaup Seen only at one site; max of	WR of 5 birds on 29	Aythya affinis Feb, not associating with A. collaris.	
Black Vulture Recorded as Order 2 at 8 site	PR s, max count	Coragyps atratus was of 98 birds on 20 Feb.	

PR Turkey Vulture Cathartes aura Recorded as Order 2 at 8 sites; but not in such high numbers as Black Vulture, (' airatus. Lesser Yellow-headed Vulture SR Cathartes burrovianus Seen only at one site on 25 Feb and 1 Mar; two birds at close range, possibly a pair. King Vulture PR Sarcoramphus papa Single birds on 22 Feb and 1 Mar; the latter landing on a tree close to Mayan pyramid. Osprey PR Pandion haliaetus Most sightings, at 6 sites, of single birds, but two birds were seen on 24 Feb and on 29 Mar. American Swallow-tailed Kite SR Elanoides forficatus A single bird was seen on 28 Feb, but a group of 20 was seen spiralling overhead on 1 Mar. Black-shouldered Kite PR Elanus caeruleus Singletons at one site; but two birds were seen on 26 Feb. Snail Kite(Everglade Kite) PR Rostrhamus sociabilis Seen at 7 sites; max counts were of 6 birds on 20 Feb, 9 on 25 Feb, and 15 on 29 Feb. Common Black-Hawk PR Buteogallus anthracinus Seen at three sites; maximum counts being of three birds on 20 and 21 Feb. Great Black-Hawk PR **Buteogallus urubitinga** There were sightings of single birds on 19, 21 and 23 Feb, all at same site. Black-collared Hawk PR Busarellus nigricollis A singleton was seen on 28 Feb, and a pair was encountered regularly at a second site. Solitary Eagle PR Harphyhaliaetus solitarius Four singletons, at separate sites, on 21, 24, 27 Feb and 1 Mar. Gray Hawk PR Buteo nitidus (Asturina nitida) Singletons seen from time to time at three sites, possibly the same individual, although two separate birds were seen on 25 Feb. Roadside Hawk PR **Buteo** magnirostris Seen at 7 sites, max counts were of three birds on 21 Feb, and 4 birds on 27 and 28 Feb. White-tailed Hawk PR Buteo albucandatus Single birds seen at three sites. Laughing Falcon PR Herpetotheres cachinnans One sighting, of two birds on 21 Feb. **Collared Forest Falcon** PR Micrastur semitorquatus Singletons at three sites.

Merlin Soon only on 22 Feb, an adu	T It male.	Falco columbarius
Aplomado Falcon One sighting of two birds on	PR 28 Feb	Falco femoralis
Bat Falcon	PR	Falco rufigularis
Seen at three sites; max of th	ree on 23 Feb a	ind two on 28 Feb.
<b>Peregrine Falcon</b>	WR	Falco peregrinus
Seen twice, once from boat,	when attacks m	ade on Northern Jacana and American Coot.
Plain Chachalaca	PR	Ortalis vetula
Seen at 4 sites; max was of e	4 birds on 21 Fe	b. Male and female duetting on several occasions.
Black-throated Bobwhite One sighting of two birds on	PR 28 February.	Colinus nigrogularis (Black-throated Quail)
Gray-necked Wood-rail	PR	Aramides cajanea (Eulabeornis cajaneus)
Seen only at one site; maxin	num count was	of two birds on 24 Feb.
<b>Purple Gallinule</b> Single birds seen at two sites	PR	Porphyrula martinica (Gallinula martinica)
Common MoorhenPRGallinula chloropusSeen at two sites; max count was of 10 birds on 29 Feb.		
American Coot	WR	Fulica americana
Seen only at one site; record	ed as high Orde	r 3 at this location.
Limpkin	PR	Aramus guarauna
Seen at 3 sites; max count of	5 birds on 29 I	Feb. One calling territorially from top of low tree.
Black-bellied Plover	T-WR	Pluvialis squatarola (Grey Plover)
Seen at 4 sites; max count v	was of 20 birds	on 22 Feb.
Semipalmated Plover Seen only on 3 March, a sin	T-WR gle bird	Charadrius semipalmatus
Killdeer	T-WR	<i>Charadrius vociferus</i>
Seen at 3 sites; max counts v	vere of three bit	ds on 22 Feb and 2 Mar;two on 21,22 and 23 Feb.
Black-necked Stilt	PR	Himaniopus mexicanus
Seen only at one site; 60 bird	Is counted on 2	4 and 26 Feb, and 67 on 2 Mar
Northern Jacana	PR	Jacana spinosa
Seen at 5 sites; max count o	f 8 birds, on 20	Feb. Recorded as high Order 2 at one site.

Greater Yellowlegs WR Tringa melanoleuca Seen at three sites; maximum count was of 8 birds on 2 Mar.

Lesser Yellowlegs WR Tringa flavipes Seen at 6 sites; max counts of 10 birds on 20 / 22 Feb and 11 birds on 23 Feb.

Solitary SandpiperWRTringa solitariaSeen at 4 sites; maximum count was of 10 birds on 4March.

WilletT-WVCatoptrophorus semipalmatusSeen at three sites; max counts of three birds on 24Feb and of 5 on 3 Mar.

Spotted SandpiperT-WRActitis maculariaTwo seen at 4 sites, with max of 3 and 4 at two other sites.

 Whimbrel
 T
 Numenius phaeopus

 One bird on 26 Feb and three birds on 2 Mar

Ruddy TurnstonePRArenaria interpresSeen at two sites; 7 birds on 22 Feb, and 28 birds on 3 Mar.

Semipalmated Sandpiper T Calidris pusilla Seen only at one site. One adult winter plumage bird seen on 22 Feb.

 Western Sandpiper
 T
 Calidris mauri

 Seen only at one site;
 15 birds present on 22 Feb.

 Least Sandpiper
 T-WV
 Calidris minutilla

 Seen at 4 sites; max count was of 30 birds on 22 Feb, 4 birds on 24 Feb and on 4 Mar.

Pectoral SandpiperTCalidris melanotosA single bird on 4 Mar.

Short-billed DowitcherTLimnodromus griseusSeen at two sites; max counts were of 7 and 9 birds on 2 Mar, and 14 birds on 3 Mar.

Common SnipeWRGallinago gallinagoSingle birds seen on 21 Feb and on 27 Feb, at different sites.

Arctic Skua (Parasitic Jaeger) A Stercorarius parasiticus Seen only in two adjacent areas. Single birds seen on 21 and 24 February, and two seen on 3 Mar. As more is learnt about skua occurrence and movements, skuas are now being seen regularly in small numbers well outside their previously-understood ranges. These records, if added to, may well change the status of this species in Belize. Extensive field notes were taken

Laughing GullPRLarus atricillaSeen at 4 sites; max counts were of 200+ birds on 24 Feb and 3 Mar.

Ring-billed Gull WV Larus delawarensis One sighting of a single bird on 24 Feb.

 Herring Gull
 WV
 Larus argentatus

 Seen at three sites; maximum count was of 20 birds on 2 Mar.

 Caspian Tern
 PR
 Sterna caspia (Hydroprogne caspia)

 Seen at three sites; max counts were of 4 birds on 21 Feb, and two birds on 29 Feb.

 Royal Tern
 PR
 Sterna maxima(Thalasseus maximus)

 Seen at 4 sites; max counts were of 35 birds on 24
 Feb and 80+ birds on 3 Mar.

Sandwich TernPRSterna sandvicensis (Thalasseus sandvicensis)Seen at three sites; max counts were 40+ and 100+ on 3 Mar.

Black Skimmer T Rynchops niger One sighting of a flock of 7 birds on 3 Mar.

Pale-vented PigeonPRColumba cayennensis(Rufous Pigeon)Seen at three sites; max counts were of 8 birds on 21 and 23Feb; two birds on 29 Feb.

 White-crowned Pigeon
 PR
 Columba leucocephala (White-headed Pigeon)

 Only one sighting of a single bird, on 3 Mar.
 Mar.

Red-billed PigeonPRColumba flavirostrisSeen at two sites; maximum count was of three birds on 19 Feb.

Short-billed PigeonPRColumba nigrirostrisSightings of single birds on 28 Feb, and on 3 Mar.

White-winged DovePRZenaida asiaticaOnly one sighting of a single bird on 3 Mar.

Common Ground-DovePRColumbina passerinaSeen at three sites; max counts three on 19Feb and 27Feb.

Plain-breasted Ground-Dove PRColumbina minutaSeen at 4 sites; maximum counts 11 on 22Feb and 7 on 25 Feb.

 Ruddy Ground-Dove
 PR
 Columbina talpacoti

 Seen at 5 sites; max
 was of 25 birds on 27
 Feb, but it was recorded as Order 2 one site.

White-tipped DovePRLeptotila verreauxi(White-fronted Dove)Seen at 6 sites; max counts were of 3 birds on 25 Feb, and 2 on 20, 25, 28 Feb.

Gray-chested Dove PR Leptotila cassinii Seen at two sites; maximum count was of 3 birds on 23 Feb. Olive-throated Parakeet PR Aratinga nana (Olive-throated Conure) Seen at 7 sites; max counts were 6 on 22 Feb and of 4 on 26, 27, 28 and 29 Feb. White-fronted Parrot PR Amazona albifrons(White-fronted Amazon) Seen at three sites: max counts 6 on 9 Feb and 3 on 28 Feb Mealy Parrot PR Amazona farinosa (Mealy Amazon) A single sighting of 4 birds on 25 Feb. Yellow-crowned Parrot Amazona ochrocephala (Yellow-crowned Amazon) PR Seen at two sites: maximum counts 5 on 20 Feb and 4 on 25 Feb. Squirrel Cuckoo PR Piaya cayana Seen at three sites; max counts two on 24 and 29 Feb. Striped Cuckoo PR Tapera naevia A single bird on 28 Feb. Groove-billed Ani Crotophaga sulcirostris PR Seen at 7 sites; max counts were of 14 birds on 22 Feb, 9 birds on 24 Feb and 7 on 23 Feb. Lesser Nighthawk T-SR Chordeiles acutipennis Seen only at one site, with a maximum count of 15 birds on 19 and 20 Feb. Common Nighthawk PR Chordeiles minor Only at one site; max of 20 on 20 Feb. Large numbers of Nighthawk sp were seen nightly. Nyctidromus albicollis **Common Pauraque** PR Seen only at one site, a roosting bird on 23 and 28 Feb. It was photographed on 23 Feb. White-collared Swift Streptoprocne zonaris PR One sighting of a flock of 100+ birds passing on 26 Feb. Vaux's Swift PR Chaetura vauxi Seen only at one site; maximum count on 28 Feb was of 12 birds. Long-tailed Hermit PR Phaethornis superciliosus A single bird on 28 Feb. Little Hermit PR Phaethornis longuemareus Seen only at one site, two birds on 28 Feb. Violet Sabrewing PR Campylopterus hemileucurus One female on 25 Feb. Green-breasted Mango PR Anthracothorax prevostii Seen at three sites; all sightings were of single birds.

Fork-tailed Emerald PR. Chlorostilbon canivetii Soon at two sites; the maximum number being three on 25 Feb. White-bellied Emerald PR Amazilia candida Soon at two sites; the maximum number being three on 25 Feb. Azure-crowned Hummingbird PR Amazilia cyanocephala (Red-billed Azurecrown) Seen only amongst the pines west of the zoo, on 26 Feb. Rufous-tailed Hummingbird PR Amazilia tzacatl Seen at 7 sites; max count was 6 on 27 Feb. Amazilia rutila Cinnamon Hummingbird PR Seen at two sites; max counts were three on 23 Feb and on two & 3 Mar. Ruby-throated Hummingbird T-WR Archilochus colubris A single bird, on 27 Feb. Black-headed Trogon PR Trogon melanocephalus Seen at three sites; max counts were three on 25 Feb and 1 Mar. Violaceous Trogon PR Trogon violaceus Only one sighting, a single bird, on 26 Feb. Blue-crowned Motmot PR Momotus momota Singletons seen at two sites, on 26 Feb and 1 Mar. Ringed Kingfisher Ceryle torquata (Megaceryle torquata) PR Seen at 5 sites; max counts were of 8 birds on 29 Feb and 4 each on 21, 22 and 25 Feb. **Belted Kingfisher** T-WR Ceryle alcyon Seen at 6 sites; max count was 20 on 21 Feb. Amazon Kingfisher PR Chloroceryle amazona Seen at 5 sites; max count was of two birds on 23 Feb. Green Kingfisher PR Chloroceryle americana Seen at 4 sites; max count was of three birds on 23 Feb. American Pygmy Kingfisher PR Chlorocervle aenea Seen at two sites; max count was of three birds on 23 Feb. Collared Aracari PR Pteroglossus torquatus Seen at two sites, max counts were of three birds on 23 and 28 Feb. Keel-hilled Toucan PR Ramphastos sulfuratus Seen at two sites; single birds, on 26 Feb, 28 Feb and 1 Mar.

Acorn Woodpecker PR Seen at 5 sites; max counts were of 12 birds	Melanerpes formicivorus on 26 Feb.	
Black-cheeked Woodpecker PR One pair recorded.	Melanerpes pucherani	
	Melanerpes pygmaeus(Yucatan Woodpecker) atan sub-species; max count 3 birds on 25 Feb.	
Golden-fronted Woodpecker PR Sightings of single birds at two sites, on 23 F	Melanerpes aurifrons Feb, 26 Feb and 3 Mar.	
Yellow-bellied Sapsucker T-WR Only one sighting of a single bird, on 3 Mar.	Sphyrapicus varius	
Smoky-brown Woodpecker PR Seen only at one site; two birds on 23 Feb	Venthornis fumigatus	
Golden-olive Woodpecker PR Seen at two sites; single birds on 27 Feb and	Piculus rubiginosus 28 Feb.	
Lineated Woodpecker PR Sightings of single birds, at two sites, on 21,	Dryocopus lineatus 22, 24 and 25 Feb.	
Pale-billed WoodpeckerPRA single bird on 26 Feb.	Campephilus guatemalensis	
Rufous-breasted Spinetail PR Seen only at one site; three birds on 23 Feb a	Synallaxis erythrothorax ind two on 28 Feb	
Plain Xenops         PR           Three birds seen on 26 February.	Xenops minutus	
Ruddy Woodcreeper         PR           Seen only at one site; two birds on 26 Feb.	Dendrocincla homochroa	
Olivaceous Woodcreeper PR A single bird was seen on 26 Feb.	Sittasomus griseicapillus	
Ivory-billed Woodcreeper PR Seen at three sites; two birds seen on 1 Mar,	Xiphorhynchus flavigaster the other sightings being of singletons.	
Streak-headed WoodcreeperPRLepidocolaptes souleyetiiAll sightings were of single birds on 26, 28 and 29 Feb and on 1 Mar.		
Great Antshrike PR One sighting of two birds on 25 Feb	Taraha major	

 Barred Authrike
 PR
 Thamnophilus doliatus

 Seen at 5 sites; max count was of 4 birds on 25 Feb.
 25 Feb.

 Dot-winged Antwren
 PR
 Microrhopias quixensis

 Seen at two sites; two birds on 23 Feb being the maximum count.
 Pression 23 Feb being the maximum count.
 Pression 23 Feb being the maximum count.

Dusky AntbirdPRCercomacra tyranninaOne sighting of two birds on 1 Mar.

Black-faced Antthrush PR Formicarius analis A single bird seen on 26 Feb.

Caribbean ElaeniaPRElaenia martinicaSeen only at one site, a total of three birds on 3 Mar.

Yellow-bellied ElaeniaPRElaenia flavogasterSeen at 6 sites; max count was 5 on 25 Feb.

Slate-headed Tody Flycatcher PR Todirostrum sylvia A single bird on 23 Feb.

Common Tody Flycatcher PR Todirostrum cinereum Seen at three sites; max count was of three birds on 23 Feb.

Yellow-olive FlycatcherPRTolmomyias sulphurescensSeen only at one site; a total of three birds on 28 Feb.

Royal FlycatcherPROnychorhynchus coronatusSeen only at one site; two birds on 1 Mar.

Tropical PeweePRContopus cinereusSeen only at one site, a single bird on 26 Feb.

Least Flycatcher T-WR Empidonax minimus Seen at two sites; single birds on 23 and 28 Feb.

 Vermilion Flycatcher
 PR
 Pyrocephalus rubinus

 Seen at 5 sites; max count was of 11 birds on 19 February. Three nests found with eggs.

Bright-rumped AttilaPRAttila spadiceusSingle birds on 28 and 29 Feb.

 Dusky-capped Flycatcher
 PR
 Myiarchus tuberculifer(Olivaceous Flycatcher)

 Seen at 5 sites; singletons, apart from two on 28 Feb
 Seen at 5 sites; singletons, apart from two on 28 Feb

Great Kiskadee PR Pitangus sulphuratus Seen at 5 sites. Recorded as Order 2 at one site, but 6 birds on 20 Feb was next max.

Boat-billed Flycatcher PR Megarynchus pitangua Seen at three sites; maximum count was of three birds on 28 Feb. Social Flycatcher PR Myiozetetes similis Seen at 5 sites; max counts were of 15 birds on 25 Feb and 10 birds on 29 Feb. Piratic Flycatcher PR Legatus leucophaius One bird on 26 Feb, during a period of passerine activity in high grass and shrubs W of Zoo. **Tropical Kingbird** PR Tyrannus melancholicus Seen at 5 sites; max count was of 12 birds on 28 Feb. Recorded as low Order 2 at one site. Eastern Kingbird Т Tyrannus tyrannus Single birds on 19 and 20 Feb. at one site. Fork-tailed Flycatcher PR Tyrannus savanna (savana) Seen at 4 sites; max count was of 30+ on 22 Feb. Recorded as low Order 2 at one site. Cinnamon Becard PR Pachyramphus cinnamomeus One sighting of a single bird on 22 Feb. Rose-throated Becard PR Pachyramphus aglaiae Seen at two sites; max count was of three birds on 25 Feb. Masked Tityra PR Tityra semifasciata Seen at three sites. Two birds seen at each location on 26 and 28 Feb and 1 Mar. Black-crowned Tityra Tityra inquisitor PR One sighting of a pair of birds on 28 Feb. Manacus candei White-collared Manakin PR Two birds seen on 28 Feb and a singleton on 25 Feb. Red-capped Manakin PR Pipra mentalis Seen only at one site; a pair on 28 Feb. **Purple Martin** т Progne subis Seen at 4 sites; maximum count was of 8 birds on 28 Feb. **Grey-breasted Martin** PR Progne chalybea Seen at 8 sites. Recorded as mid-Order 2, at two sites. **Tree Swallow** T-WR Tachycineta bicolor Seen at 3 sites. The max counts were of 10 birds on 25 Feb, and 6 birds on 26 Feb. Mangrove Swallow PR Tachycineta albilinea Seen at 9 sites. Recorded as Order 2 at two sites.

Northern Rough-winged Swallow PR Stelgidopteryx serripennis Seen at 4 sites. Recorded as Order 2 at one site. Green Jay PR Cyanocorax yncas Seen only at one site; two birds on 27 Feb. **Brown Jay** PR Cyanocorax morio (Psilorhinus morio) Seen at 7 sites; max counts were of 15 birds on 26 Feb. 9 on 28 Feb. and 8 on 23 Feb. Yucatan Jay PR Cyanocorax yucatanicus(Cissilopha yucatanica) Seen only at one site; 4 birds on 27 Feb. Spot-breasted Wren PR Thryothorus maculipectus Seen at 4 sites. No more than two birds seen at any one time; on 23, 25, 27 and 29 Feb. Southern House Wren PR Troglodytes aedon Seen at two sites. The max count was of three birds on 22 Feb. White-bellied Wren PR Uropsila leucogastra A single bird on 1 Mar. **Blue-grey Gnatcatcher** PR Polioptila caerulea Seen at three sites. The max count was of 11 birds 22 Feb. Wood Thrush T-WR Hylocichla mustelina Seen at two sites. The max count was of three birds on 25 Feb. Clay-coloured Thrush PR Turdus gravi (Clay-colored Robin) Seen at 6 sites. The max counts were of 5 birds on 25 Feb and on 28 Feb. White-throated Thrush PR Turdus assimilis (White-throated Robin) A single bird on 29 Feb. Gray Catbird T-WR Dumetella carolinensis Seen at 6 sites. The max counts were of 5 birds on 29 Feb, and of 4 birds on 28 Feb. Black Catbird PR Melanoptila glabrirostris Seen only at one site; the max count being of 9 birds on 3 Mar. **Tropical Mockingbird** PR Mimus gilvus Seen at 8 sites. Recorded as Order 2 at three sites. White-eyed Vireo T-WR Vireo griseus Seen at three sites; singletons, apart from two birds on 28 Feb. Mangrove Vireo PR Vireo pallens Seen at 4 sites. All were singletons, barring two on 29 Feb.

Yellow-throated Vireo T-WR Vireo flavifrons A single bird on 28 Feb.

 Yellow-green Vireo
 T-WR
 Vireo flavoviridis

 A single bird on 28 Feb. Although the 1986 Belize checklist does not separate this from Red-eyed
 Vireo, V. olivaceus, Ridgely (1989) quotes the authority for treating it separately. The status quoted is that given for V. olivaceus in the 1986 Belize checklist.

 Yucatan Vireo
 PR
 Vireo magister

 Seen only at one site; a total of 4 birds on 3 Mar. One was photographed.

Lesser GreenletPRHylophilus decurtatusSeen at three sites. The max numbers were three on 25 and 29Feb.

Rufous-browed Peppershrike PR Cyclarhis gujanensis Two sites; single birds at one, but two adults with two fledglings at other; nest 3m up 5m tree.

Blue-winged Warbler T-WR Vermivora pinus Seen at two sites; max count was of 4 birds on 27 Feb.

Brewster's Warbler T-WR?

The dominant hybrid of **Blue-winged Warbler**, *V. pinus*, and **Golden-winged Warbler**, *V. chrysoptera* parents. One bird recorded on 25 Feb. The main zone of hybridisation lies from the lower Great Lakes to New York, Pennsylvania, and the northern Appalachians. Full field notes were taken. This may be the first record for Belize.

Tennessee WarblerT-WRVermivora peregrinaSeen at two sites.Recorded as Order 2 at one site.

Northern Parula T-WR Parula americana (Parula Warbler) Seen at two sites. The max count was of 5 birds on 25 Feb, but there seemed to be a steady movement, birds tending to drift northward when foraging.

Yellow WarblerPRDendroica petechia (aestiva group)Seen at 7 sites; max count was of 4 birds on 23 Feb; no aestiva subspecies were identified.

 Mangrove Warbler
 PR
 Dendroica petechia (erithachorides group)

 Rufous-hooded variant of Yellow Warbler.
 Seen at three sites; max of two birds on 3 Mar.

Chestnut-sided WarblerTDendroica pensylvanicaA single bird on 21 Feb.Dendroica pensylvanica

 Magnolia Warbler
 T-WR
 Dendroica magnolia

 Seen at 5 sites; recorded as Order 2 at one.
 Otherwise, max of 5 birds on 23 & 26 Feb.

Yellow-rumped WarblerT-WRDendroica coronataSeen at 5 sites; max count was of 7 birds on 25Feb.

Black-throated Green Warbler T-WR Dendroica virens Seen at two sites: max count was of 4 birds on 25 Feb. Blackburnian Warbler т Dendroica fusca A single bird on 26 Feb Vellow-throated Warbler T-WR Dendroica dominica Seen at 5 sites: max count was of 4 birds on 23 Feb т Dendroica discolor Prairie Warbler Seen at two widely separated sites; single birds, but both were on 3 Mar. Palm Warbler T-WR Dendroica palmarum A single bird on 3 Mar. Black-and-white Warbler T-WR Mniotilta varia Seen at 6 sites; max count 6 on 25 Feb. Some evidence of a northward drift during foraging. American Redstart T-WR Setophaga ruticilla Seen at 9 sites; recorded as Order 2 at one. Some courting and territorial behaviour. Helmitheros vermivorus T-WR Worm-eating Warbler Seen at two sites on 25 and 26 Feb, single birds. Ovenhird T-WR Seiurus aurocapillus Seen at three sites. All were individual birds, on 25,26 and 27 Feb and 3 Mar. Northern Waterthrush T-WR Seiurus noveboracensis Seen at 7 sites: max count three on 20 and 21 Feb. Kentucky Warbler T-WR Oporornis formosus (Geothlypis formosa) One sighting of two birds on 28 Feb. Mourning Warbler Т Oporornis philadelphia (Geothlypis philadelphia) A single bird on 3 Mar. Common Yellowthroat T-WR Geothlypis trichas Seen at 4 sites; max count was 6 birds on 21 and 23 Feb. Grey-crowned Yellowthroat PR Geothlypis poliocephala A single bird on 26 Feb, foraging in the grass 3m from the observers. Photographed Wilsonia citrina Hooded Warbler T-WR Seen at 4 sites: max count was of three birds on 26 Feb. Yellow-breasted Chat T-WR Icteria virens Seen at two sites; sightings of single birds on most days at those locations.

Bananaquit PR Coereba flaveola Seen only at one site, three birds on 3 Mar.

Red-legged HoneycreeperPRCyanerpes cyaneusSeen at two sites; max counts two pairs 22, 25 and 28 Feb.

Scrub EuphoniaPREuphonia affinisSeen at 4 sites; all singletons, apart from two birds on 26 Feb.

Yellow-throated Euphonia PR Euphonia hirundinacea Seen at 4 sites; max count was of 3 birds on 29 Feb.

Blue-Gray TanagerPRThraupis episcopusSeen at 6 sites; max count was of 12 birds on 20 Feb. Photographed.

Yellow-winged Tanager PR Thraupis abbas Seen at two sites; max count was of 4 birds on 1 Mar.

Gray-headed Tanager PR Eucometis penicillata Seen only at one site; a sighting of two birds on 26 Feb.

 Hepatic Tanager
 PR
 Piranga flava

 Seen at 4 sites. Order 2 at one on 26 Feb. Max counts of 4 on 26 and 28 Feb.

Summer TanagerT-WRPiranga rubraSeen at 4 sites; max count was of 3 birds on 20 Feb.

Crimson-collared Tanager R Ramphocelus sanguinolentus Seen at two sites; two birds on 26 Feb and one on 28 Feb.

Scarlet-rumped Tanager PR Ramphocelus passerinii Seen at three sites; max count was of three birds on 23 Feb.

Grayish Saltator PR Saltator coerulescens Seen at 4 sites; max counts 6 on 29 Feb, 5 on 20 Feb.

 Buff-throated Saltator
 PR
 Saltator maximus

 Seen at two sites; max count was of 4 birds on 26 Feb.
 Seen at two sites; max count was of 4 birds on 26 Feb.
 Seen at two sites; max count was of 4 birds on 26 Feb.

Black-headed Saltator PR Saltator atriceps Seen at 4 sites; max counts were of 4 birds on 23 Feb, and three on 28 Feb and on 1 Mar.

 Northern Cardinal
 PR
 Cardinalis cardinalis (Common Cardinal)

 Seen at three sites; max count was of three birds on 20 Feb.
 20 Feb.

Rose-breasted Grosbeak T-WR Pheucticus ludovicianus Seen only at one site; max count being of 4 birds on 20 Feb. 
 Blue-black Grosbeak
 PR
 Cyanocompsa cyanoides

 Seen at three sites; max count being of three birds on 23
 Feb

 Blue Bunting
 PR
 Cyanocompsa parellina

 A single male, on 28 Feb.

Blue Grosbeak T-WR Guiraca caerulea Seen only at one site; three birds on 1 Mar.

Indigo BuntingT-WRPasserina cyaneaSeen at two sites; max count was of 47 birds on 3 Mar.

Olive Sparrow PR Arremonops rufivirgatus Seen at two sites, two birds on 26 Feb and a singleton on 28 Feb.

 Blue-black Grassquit
 PR
 Volatinia jacarina

 Seen at two sites; recorded as Order 2 at one.
 PR
 Volatinia jacarina

 Variable Seedeater
 PR
 Sporophila aurita

 Single birds at two sites on 26 and 28
 Feb.
 Seedeater

 White-collared Seedeater
 PR
 Sporophila torqueola

 Seen at 9 sites. Recorded as Order 2 at 6 sites.
 Sites.

Thick-billed Seed FinchPROryzoborus funereusSeen at 4 sites; all sightings being of single birds, on 23 and 26Feb on 1 Mar.

Chipping SparrowPRSpizella passerinaSeen only at one site; two birds on 26 Feb.

Red-winged BlackbirdPRAgelaius phoeniceusSeen at three sites. Recorded as Order 3 at all locations.

 Eastern Meadowlark
 PR
 Sturnella magna

 Seen at three sites; max being two birds on 26 Feb. Photographed.

 Melodious Blackbird
 PR
 Dives dives

 Seen at 6 sites; recorded as Order 2 at one. Very active in territorial behaviour.

Great-tailed Grackle PR Quiscalus mexicanus Seen at 9 sites; recorded as Order 2 at 4. Very active territorial behaviour at all locations.

Black-cowled Oriole PR Icterus dominicensis Seen at 4 sites; max count was of 4 birds on 26 Feb.

Orchard Oriole T-WR Icterus spurius Seen at 5 sites; max count was of 50+ going to roost on 19 Feb. Hooded Oriole PR Icterus cucultatus Seen at 6 sites; max count was of 5 on 26 Feb.

Yellow-backed OriolePRIcterus chrysaterSeen at two sites; max count was of three birds on 27 Feb.

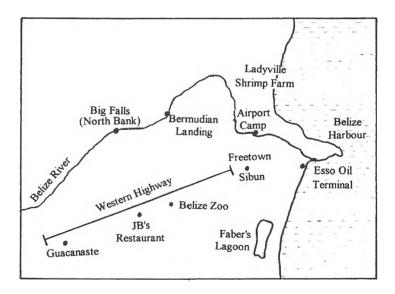
Northern Oriole T-WR Icterus galbula Seen at 4 sites; max counts were of two birds (pairs) on 22 Feb and on 1 Mar.

Yellow-billed CaciquePRAmblycercus holosericeus (Cacicus holosericeus)Seen at three sites; max count was of three birds on 23 and 29 Feb.

Montezuma Oropendola PR *Psarocolius montezuma* Seen at two sites; max count was of 5 birds on 29 Feb, where a male was fluting loudly and briefly displaying amongst the remains of old nests in 40m palms.

Total: 255 species + 2 sub-species.

# BELIZE MAP No 2: (BELIZE RIVER / WESTERN HIGHWAY AREA)



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