

**NATURE SOCIETY (SINGAPORE)  
BIRD GROUP**



**SINGAPORE BIRD REPORT**  
JULY – DECEMBER 2022

*Note:*

*The arrangement of species largely follows eBird's taxonomic order (Clements Checklist of Birds of the World). Most records are based on entries into eBird, with additional entries under 'Other Records'. We thank all contributors to eBird and everyone who made public their bird records, and regret that we are unable to name most of you individually as the eBird data set does not indicate the names of contributors.*

*We are grateful for the photographs provided by Andy Lee, Danny Khoo, Ho Siew Mun, Joseph Lim, Maricel A. Cabanero, Norman Wu and Tan Gim Cheong.*

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## Use of sighting records & approximate totals from eBird data

Citizen science observations have limitations such as sampling effort being concentrated at accessible and popular birding spots, identification skills of observers in correctly identifying bird species, as well as whether total numbers seen during a birding trip were recorded as in how transect-based bird surveys are conducted, etc. Robinson, et. al. (2021) noted that “even on checklists with the most thorough species lists, counts were biased low and exceptionally variable in their accuracy.”.

Nevertheless, Callaghan and Gawlick, (2014) discussed the efficacy of eBird data and concluded in their comparative study between eBird and survey data of a single site in the USA that “only a slight difference in parameter estimates between data obtained from eBird and from standardized surveys. Potential use and value of eBird as a tool for ...conservationists may be greater than currently realized, but studies conducted in a wider range of ecosystems and locations are needed to develop generalizations.”

Robinson, et. al. (2021) also suggested improving accuracy by finding ways to correct the various biases from citizen science data, such as giving users options to provide additional data such as to indicate when they are providing accurate data and establishing key sites where dedicated observers regularly and carefully collect data. Integrating robust survey data with citizen science data could also help improve data accuracy and assist with providing insights into the extent of bird distribution across the areas under study (Robinson, et. al.,2020). As such, eBird data can provide useful information for long-term monitoring of specific species, especially when sufficient data points are available to make such estimates possible.

As such, we now provide numbers of sighting records in this issue, particularly of common species. This is to make available data from eBird to researchers to monitor these species in case we fail to notice that numbers of these birds suddenly decline due to various reasons such as climate change, habitat loss, etc. (see for example, Vincent, 2005; Berigan, et. al., 2021).



## Lesser Whistling-Duck

*Dendrocygna javanica*

During the period of Jul to Dec 2022, between one and nine individuals were counted at Gardens-by-the-Bay; with nine birds spotted on 15 and 16 Oct 2022. Between one and four birds were spotted within the marshes at Marina East Drive during the same period; with the maximum count of four on 15 Oct 2022, 14 & 30 Nov 2022.

Other locations include Pulau Ubin on 10 Jul 2022 with six birds seen, Hampstead Gardens with four individuals seen on 12 Dec 2022, Sengkang Riverside Park on 26 Nov 2022 and 4 Dec 2022 with two individuals, Sungei Buloh Wetland Reserve on 20 Nov 2022 with two individuals, Turut Track with two birds on 17 Dec 2022, and at Tampines Eco Green on 15 Nov 2022 with a single bird.

Visitors to Singapore Botanic Gardens Eco Lake mostly observed between one to four birds most of the time. High numbers were noted only on 16-17 Sep 2022 (seven individuals), and on 9 Jul 2022, 23 & 30 Aug 2022 (six individuals). During seven other occasions, five birds were observed between 9 Jul 2022 and 5 Nov 2022. These were the remnants of the eight birds retained in a cage at the Eco Lake from 16 January 2022 to May 2022.

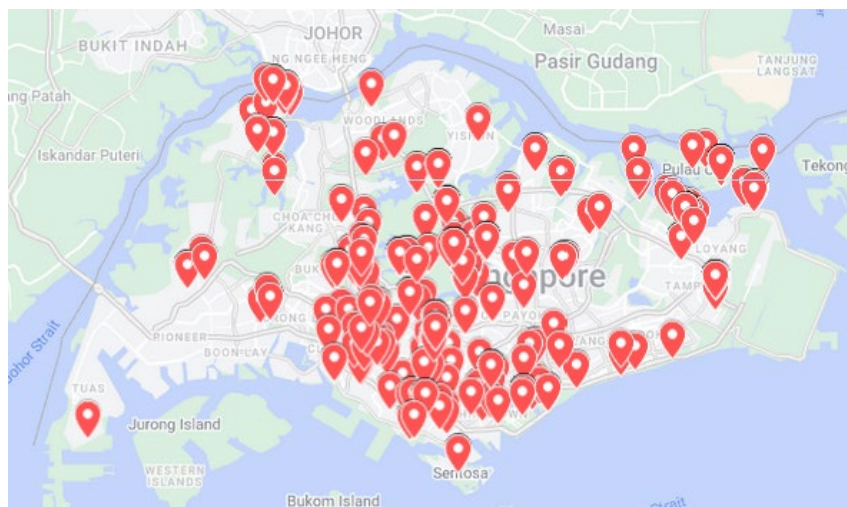
## Mandarin Duck

*Aix galericulata*

A single individual continued to be reported from around Hougang Avenue 10 on 31 Jul 2022, 7 Nov 2022 and 12 Nov 2022. An individual, possibly the same individual as it was observed to be capable of flight, was reported from Punggol Park on 5 Nov 2022. This species is not in the NSS checklist.

## Red Junglefowl

*Gallus gallus*



Map showing sighting locations of the Red Junglefowl between Jul and Dec 2022.

There were 1,797 Red Junglefowl records as of end-Dec 2022. The species has become the most common member of the Phasianidae family in Singapore, though there would be records that are likely to be hybrids or domestic fowl counted as wild birds.

### **Little Grebe**

*Tachybaptus ruficollis*

A single individual was recorded from Jurong Island on 27 Dec 2022.

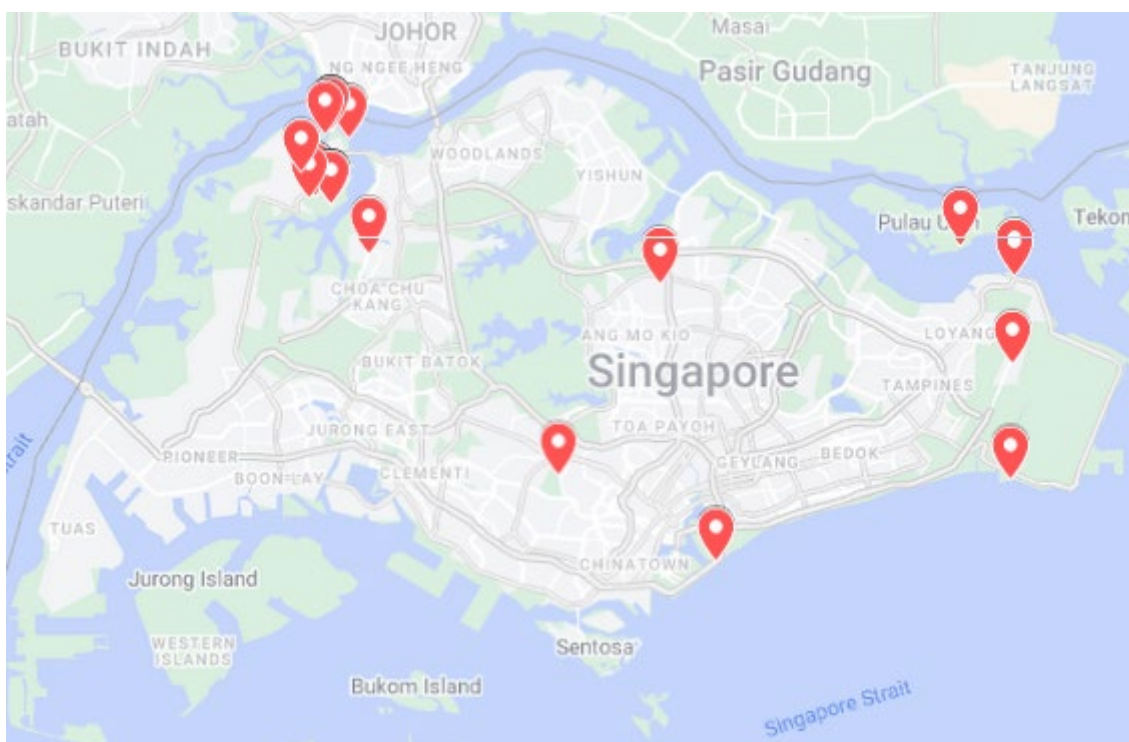
### **Blue-breasted Quail (King Quail)**

*Synoicus chinensis*

Between 26 Nov 2022 and 3 Dec 2022, between one and three birds were spotted from around the grass fields at Seletar End/Piccadilly.

### **Red Collared-Dove**

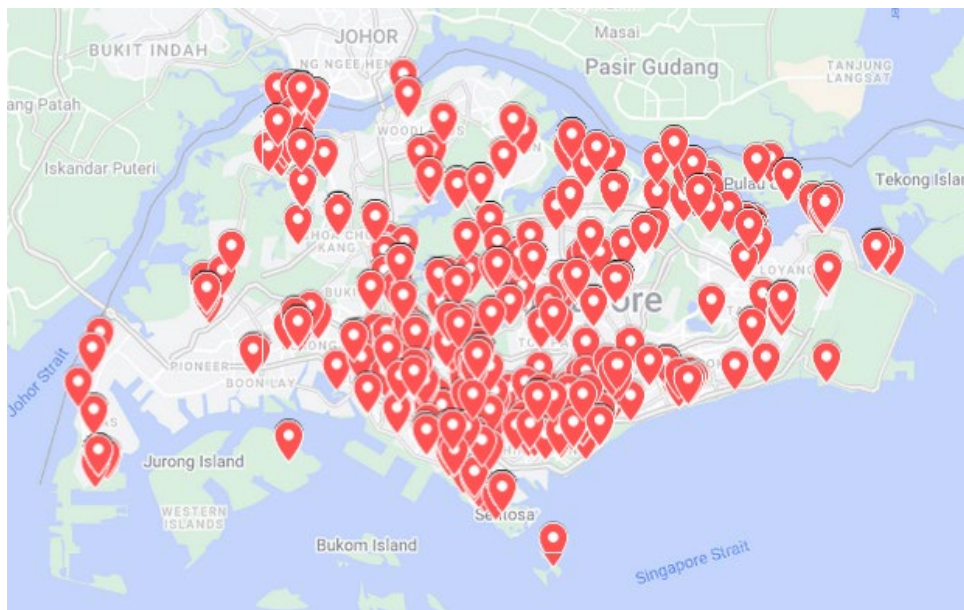
*Streptopelia tranquebarica*



Map showing sighting locations of the Red Collared-Dove between Jul and Dec 2022.

Thirty-one records were observed in north-western Singapore, such as at Kranji Marshes, Neo Tiew Harvest Lane, Sungei Buloh Wetland Reserve, as well as one record from a residential area within Choa Chu Kang. In the eastern half of Singapore, there were two records from around the vicinity of Changi Airport, one from Pulau Ubin, two from Marina East Drive and one from around Yio Chu Kang. Seven birds were seen at Changi Beach Park on 12 Dec 2022.

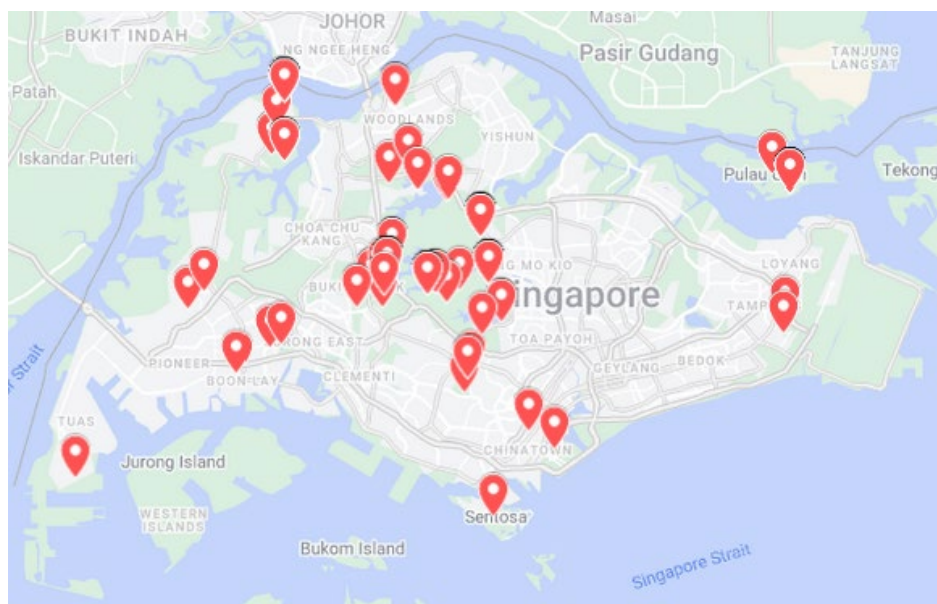
## Spotted Dove *Spilopelia chinensis*



Map showing sighting locations of the Spotted Dove between Jul and Dec 2022.

A total of 2,611 sighting records were reported between Jul and Dec 2022.

## Asian Emerald Dove *Chalcophaps indica*



Map showing sighting locations of the Asian Emerald Dove between Jul and Dec 2022.

There were 258 records of birds seen within the Central Catchment and adjoining buffer Nature Parks. The bulk of the records came from visitors to the Central Catchment proper and at Bukit Batok Nature Park, Bukit Timah Nature Reserve, Chestnut Nature Park, Dairy Farm Nature Park, Hindhede Nature Park, Jalan Ulu Sembawang, MacRitchie Reservoir Park, Rifle Range Link, Singapore Quarry, Springleaf Nature Park, Thomson Nature Park, Windsor Nature Park.

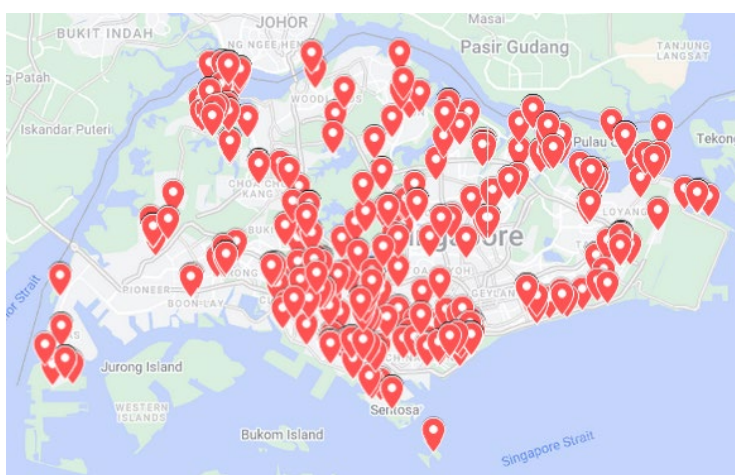


Birds were also encountered at Sungei Buloh Wetland Reserve, Admiralty Park, Bukit Brown Cemetery, the Kranji Marshes-Lim Chu Kang-Neo Tiew area, Nanyang Technological University and Pulau Ubin.

Records outside these core and peripheral areas include a single bird from Sentosa on 28 Aug 2022, an individual from Jurong Lake Gardens on 12 Nov 2022, an individual at Marina Bay car park on 21 Nov 2022, one bird from Tuas South on 25 Nov 2022, and one record from Clarke Quay on 26 Nov 2022.

## Peaceful Dove

*Geopelia striata*

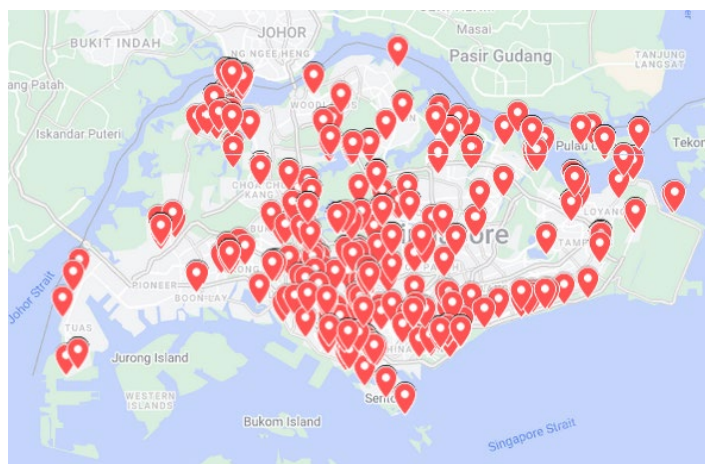


Map showing sighting locations of the Peaceful Dove between Jul and Dec 2022.

A total of 1,554 sighting records were reported between Jul and Dec 2022.

## Pink-necked Green-Pigeon

*Treron vernans*



Map showing sighting locations of the Pink-necked Green Pigeon between Jul and Dec 2022.

A total of 2,305 sighting records were reported between Jul and Dec 2022. There were nine records of 50 birds recorded from Dairy Farm Nature Park, Singapore Botanic Gardens, Jurong

Eco-Garden and Sungei Buloh Wetland Reserve during this period, with one record of a hundred birds from Sungei Buloh on 18 Nov 2022.

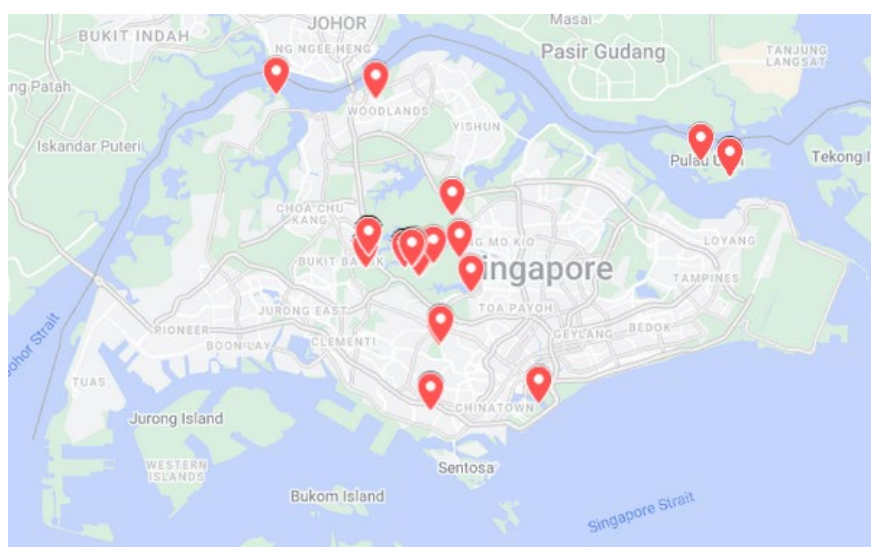
## Cinnamon-headed Green-Pigeon

*Treron fulvicollis*

A male and female were seen along Jalan Wat Siam on Pulau Ubin on 30 Nov 2022, while two were reported from near Pekan Quarry on 23 Nov 2022.

## Thick-billed Green-Pigeon

*Treron curvirostra*



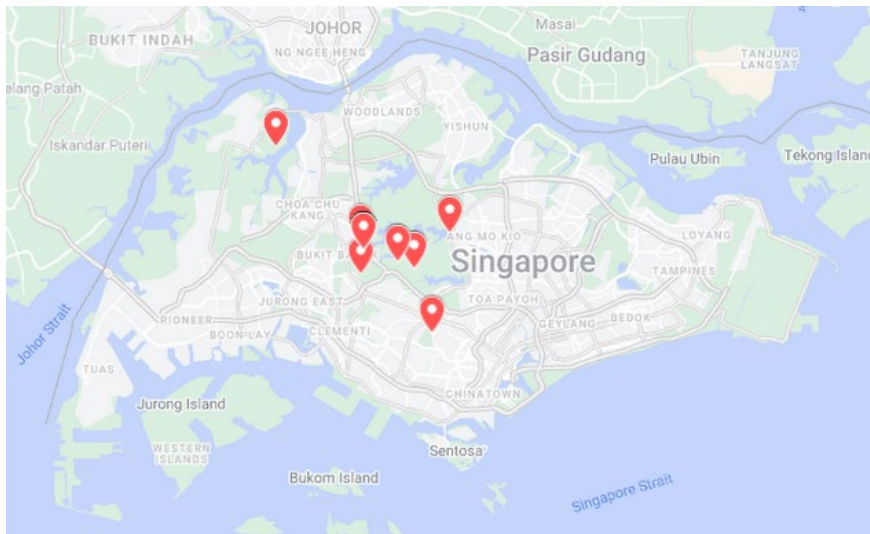
Map showing sighting locations of the Thick-billed Green Pigeon between Jul and Dec 2022.

The bulk of records were reported from Bukit Timah Nature Reserve, the Central Catchment forest, Dairy Farm Nature Park, Rifle Range Link, Singapore Quarry, Thomson Nature Park and Windsor Nature Park during the second half of the year. High counts included 15 birds from Bukit Timah Nature Park on the morning of 10 Dec 2022, eight individuals from Jelutong Tower on 24 Oct 2022, six from Dairy Farm Nature Park on 12 Sep 2022, and six from Central Catchment Nature Reserve on 23 Dec 2022.

Other localities where birds were seen include Admiralty Park on 20 Sep 2022, Sungei Buloh Wetland Reserve on 3 Sep 2022, Singapore Botanic Gardens on 14 Jul 2022, 24 Oct 2022 and 27 Nov 2022, at Telok Blangah Hill Park on 26 Nov 2022 and 27 Nov 2022, and at Satay-by-the-Bay on 19 Dec 2022.

## Jambu Fruit-Dove

*Ptilinopus jambu*



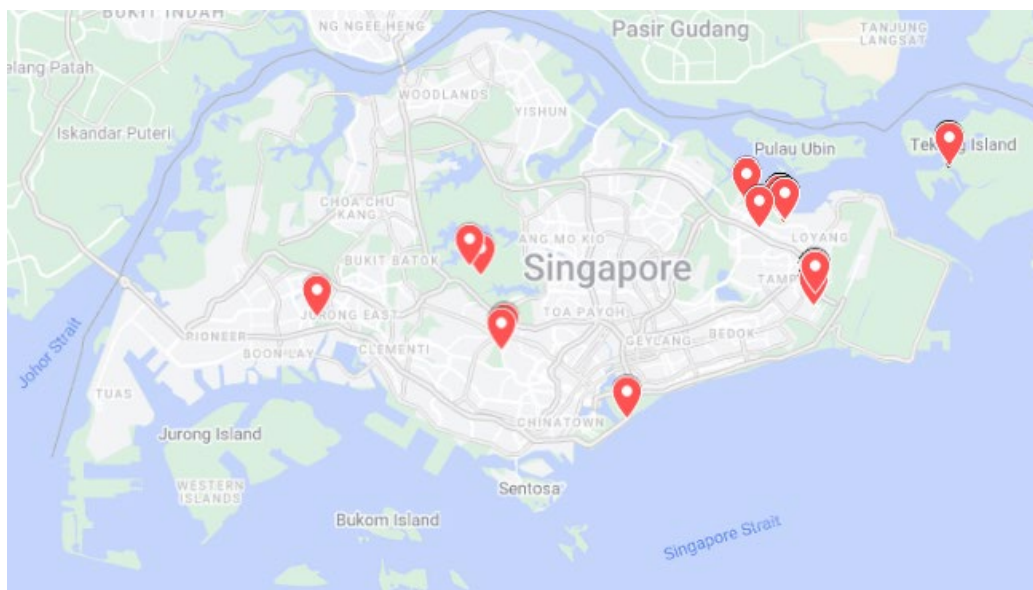
Map showing sighting locations of the Jambu Fruit Dove between Jul and Dec 2022.

Sightings of this bird remain clustered around Bukit Timah Nature Reserve, Hindhede Nature Park, the Central Catchment Nature Reserve, and Dairy Farm Nature Park. There were 21 sightings at Dairy Farm, with 18 sightings occurring between 16 Jul and 6 Aug 2022.

There were two records of individual birds at Singapore Botanic Gardens on 18 and 21 Dec 2022, with a record of an individual spotted at Kranji Marsh on 17 Jul 2022, and another record at Lower Peirce Reservoir Park on 23 Sep 2022.

## Green Imperial-Pigeon

*Ducula aenea*



Map showing sighting locations of the Green Imperial Pigeon between Jul and Dec 2022.

Up to five birds were regularly seen along the canal at Changi Business Park, while a maximum of seven individuals could be regularly seen at Pasir Ris Park, while two were spotted at

Tampines Eco Green on 9 Aug 2022. There was a single record from Pulau Tekong on 9 Nov 2022.

Outlier sightings during the second half of 2022 include two sightings within the Central Catchment Nature Reserve (CCNR) on 21 Aug 2022 and 26 Nov 2022, two records from Marina East on 24 Sep 2022 and 15 Oct 2022, one record from Jurong Lake Gardens on 27 Jul 2022, and three records from the Singapore Botanic Gardens (SBG) on 22 Oct 2022, 27 Nov 2022 and 17 Dec 2022.

We previously reported an unconfirmed sighting of a “large pigeon pale head, green wings” flying over the Ethnobotany section of the Singapore Botanic Gardens on 10 April 2022. These three records from SBG in Oct, Nov & Dec 2022, as well as those from CCNR and Jurong Lake Gardens suggest that either some birds have radiated from their eastern stronghold, or these could be visitors from Peninsular Malaysia, since Imperial Pigeons are known to be strong flyers and could traverse long distances.

### Pied Imperial-Pigeon

*Ducula bicolor*



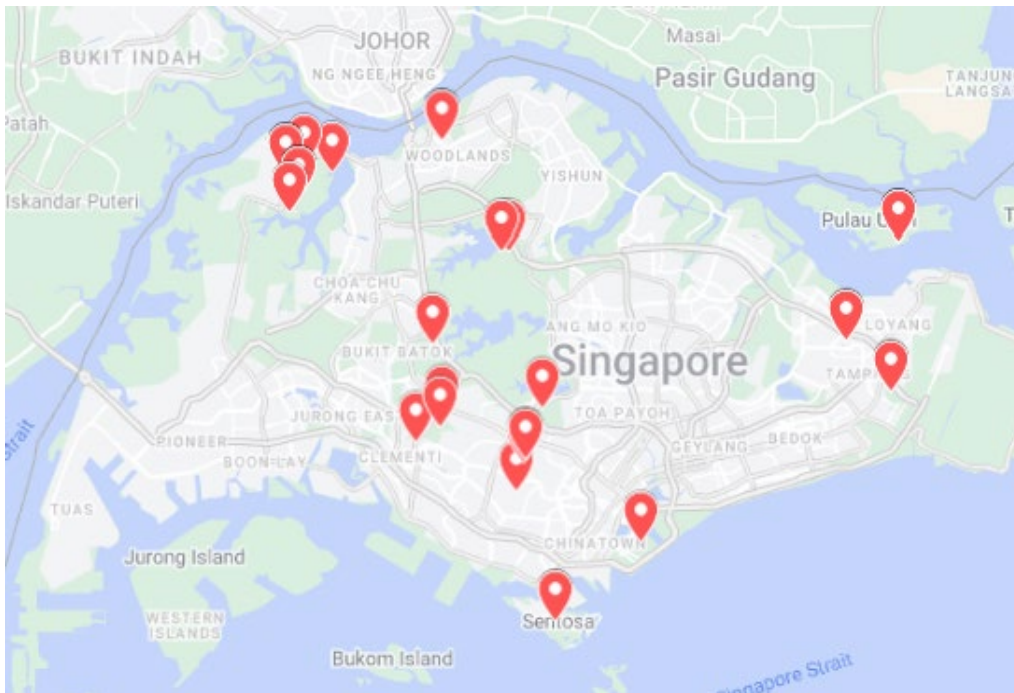
Map showing sighting locations of the Pied Imperial Pigeon between Jul and Dec 2022.

Sightings clustered around the western, north-western, central and southern parts of Singapore. Birds have been spotted as far east as Pulau Ubin (23 Nov 2022), Pasir Ris Park (8 Oct 2022), Sengkang Riverside Park (23 Jul 2022), with small numbers branching eastwards from the southern coastline and spotted at Satay-by-the-Bay (3 Jul 2022) and Sims Drive (19 Oct 2022, 24 & 28 Nov 2022).



## Greater Coucal

*Centropus sinensis*



Map showing sighting locations of the Greater Coucal between Jul and Dec 2022.

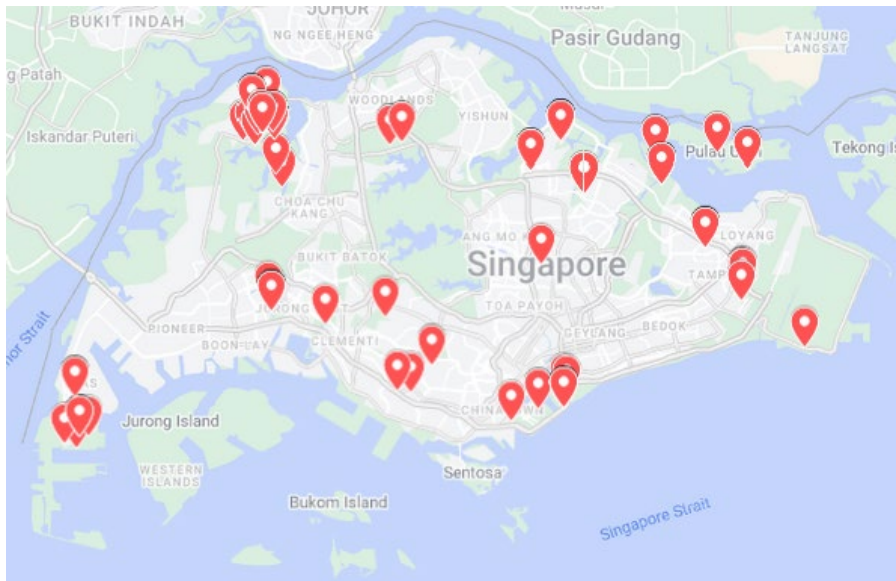
Individuals were reported from habitats usually expected of this large but elusive non-parasitic cuckoo that is more often heard than seen. These places include Pulau Ubin (with records of individuals on 4 Jul 2022, 23 Jul 2022 and 7 Oct 2022), the Neo Tiew (individuals reported on 11 Jul 2022, 31 Jul 2022 and 17 Jul 2022, with two on 3 Dec 2022) and Lim Chu Kang Lane 3 (individuals reported on 2 Sep 2022, 27 Nov 2022 and 30 Nov 2022) vicinity, Admiralty Park (individuals reported on 16 Jul 2022, 20 Sep 2022 and 1 Oct 2022), and the Clementi Woods-Holland Plains area (individuals reported on 30 Jul 2022 and 12 Dec 2022).

Other places include Gardens-by-the-Bay on 25 Oct 2022, Singapore Botanic Gardens (14 Jul 2022, 2 Sep 2022, 16 Oct 2022 and 27 Nov 2022), Tampines Eco Green (20 Sep 2022 and 24 Nov 2022) and even at Loewen Road in the upmarket Dempsey Hill area on 28 Dec 2022. It is interesting to note the record at Gardens-by-the-Bay (GBTB) as the author had previously encountered an individual within the vegetation next to the carpark of Satay-by-the-Bay on 13 Feb 2016. A single bird, possibly the same individual, was spotted at the Meadows at GBTB during that period as well.



## Lesser Coucal

*Centropus bengalensis*

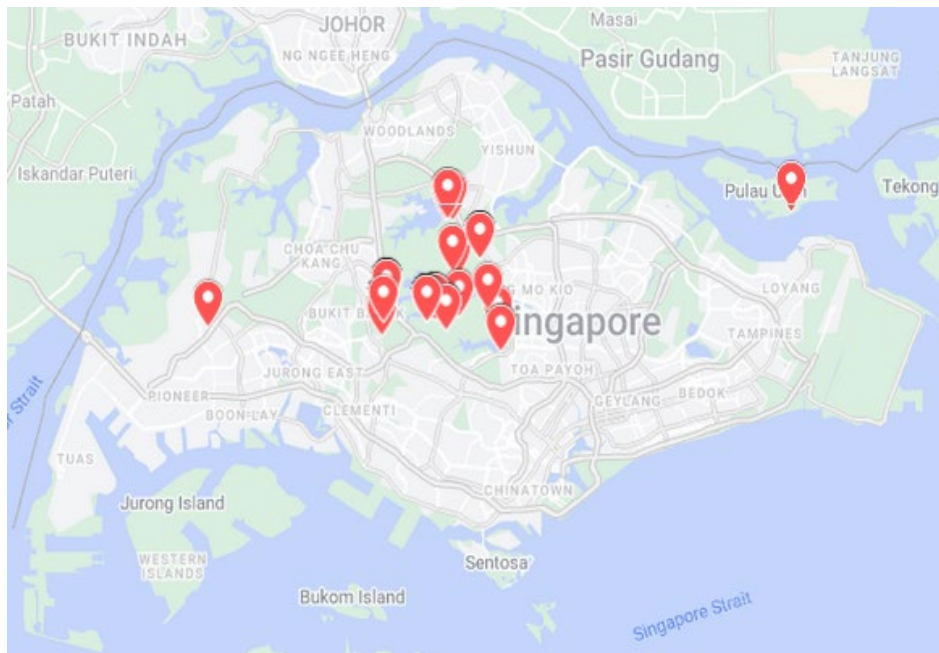


Map showing sighting locations of the Lesser Coucal between Jul and Dec 2022.

This non-parasitic cuckoo is commonly encountered in suitable habitat, such as grassy fields with rank lalang (*Imperata cylindrica*) patches. These include the fields around Neo Tiew, Kranji Marshes and Lim Chu Kang, Tuas South, Jurong Lake Gardens, the Ulu Pandan park connectors, the former Warren Golf Club at Dover Road, the marshy fields along Marina East Drive, the fields around Seletar, along the canal at Changi Business Park, Lorong Halus Wetlands, Tampines Eco Green and the fields along Tanah Merah, among other similar locations.

## Chestnut-bellied Malkoha

*Phaenicophaeus sumatranus*

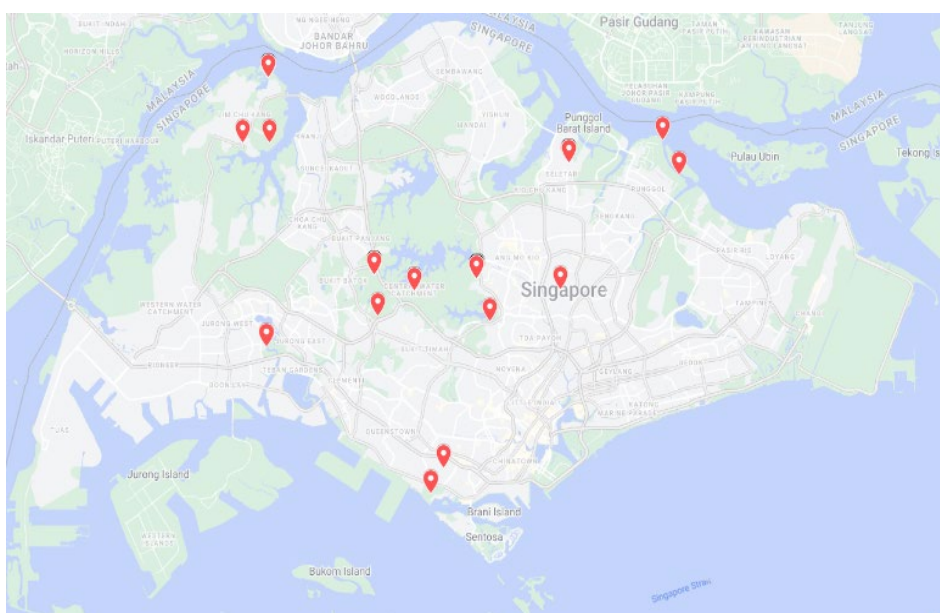


Map showing sighting locations of the Chestnut-bellied Malkoha between Jul and Dec 2022.

Birds were seen within the Central Catchment and adjacent buffer parks, such as Bukit Batok Nature Park, Dairy Farm Nature Park, Rifle Range Link, Thomson Nature Park, Upper Peirce Reservoir Park, Upper Seletar Reservoir Park and Windsor Nature Park. Three birds were recorded from Jurong Eco Garden on 18 Sep 2022. There were no records from Singapore Botanic Gardens during this second half of 2022.

## Chestnut-winged Cuckoo

*Clamator coromandus*



Map showing sighting locations of the Chestnut-winged Cuckoo between Jul and Dec 2022.

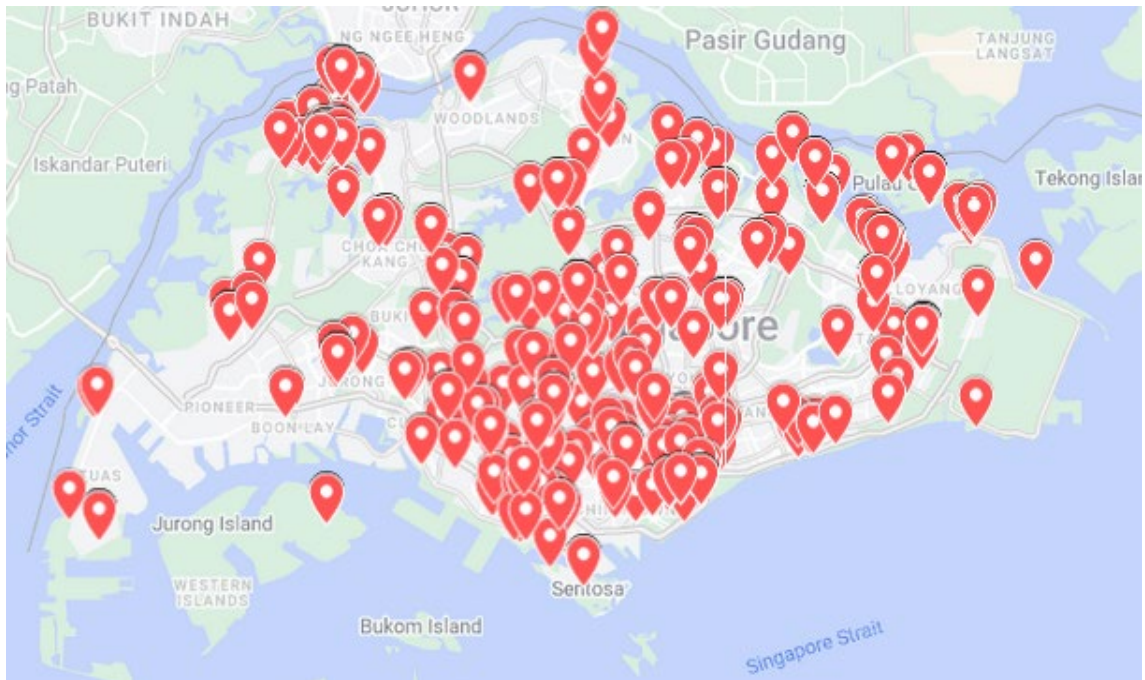
The first record for this species during the current migratory season was on 4 Oct 2022 at Sungei Buloh Wetland Reserve. Individual birds continue to be seen at regular birding spots, such as Dairy Farm Nature Park, the Central Catchment and its buffer parks, and Sungei Buloh.

One noteworthy sighting is of an individual that was seen at Windsor Nature Park/Venus Drive between 21 Oct 2022 and 26 Nov 2022. The bird was feeding on caterpillars within the vicinity and reported by many photographers in the social media. Another noteworthy record was of two birds feeding in a Australian Mulberry tree (*Pipturus argenteus*) at Dairy Farm Nature Park on 22 Nov 2022; it was not apparent from the submitted notes if the birds were feeding on the fruit or on caterpillars, since the tree species is a known host for caterpillars. Other single sightings were recorded from Berlayer Creek (11 Nov 2022), Hampstead Wetlands Park (6-7 Nov 2022), Jurong Lake Garden (13 Oct 2022), Kranji Marsh (19 Nov 2022), Punggol Promenade Nature Park (30 Nov 2022, 21 Dec 2022) and Telok Blangah Hill Park (23 Nov 2022), thereby illustrating that these migratory birds could turn up anywhere with suitable habitat.



## Asian Koel

*Eudynamys scolopaceus*



Map showing sighting locations of the Asian Koel between Jul and Dec 2022.

A total of 1,450 sighting records were reported between Jul and Dec 2022.

## Violet Cuckoo

*Chrysococcyx xanthorhynchus*



A Violet Cuckoo with prey at Singapore Botanic Gardens on 10 Dec 2022. Photo by Maricel A. Cabanero.

Sixty percent (60%) of records came from the Central Catchment and buffer parks, with Dairy Farm being the top location to see the bird. Single birds were also reported from Jurong Lake Gardens (8 Oct 2022) and Singapore Botanic Gardens. At the latter location, individual birds were spotted off in the trees around the Healing Gardens between 25 Nov 2022 and 19 Dec 2022; this was due to an outbreak of caterpillars that lasted that period and attracted other resident and migratory cuckoos, among other birds (pers. obs.).

### **Little Bronze-Cuckoo**

*Chrysococcyx minutillus*

An observer noted five birds in the same tree at Gardens-by-the-Bay on 9 Sep 2022, while another reported a juvenile tended by a Golden-bellied Gerygone *Gerygone sulphurea* at East Coast Park on 13 Oct 2022.

### **Banded Bay Cuckoo**

*Cacomantis sonneratii*

Individuals were spotted within the Central Catchment and buffer parks such as Bukit Timah Nature Reserve, Dairy Farm Nature Park, and MacRitchie Reservoir Park during this period. A juvenile was spotted being fed by Malaysian Pied Fantail *Rhipidura javanica* on 28 Aug 2022 at Neo Tiew Road. Two birds were observed to be calling to each other at Kranji Marsh on 24 Dec 2022.

### **Plaintive Cuckoo**

*Cacomantis merulinus*

A juvenile was seen within the Central Catchment from Jelutong Tower on 6 Aug 2022.

### **Rusty-breasted Cuckoo**

*Cacomantis sepulcralis*

A juvenile was spotted being fed by Malaysian Pied Fantail *Rhipidura javanica* at Kranji Marsh over three consecutive weekends (27 Aug 2022, 4 Sep 2022 and 11 Sep 2022). Another juvenile was seen fed by Malaysian Pied Fantail at Neo Tiew Harvest Lane on 28 Aug 2022, while one more was seen with the same species of host at Sungei Buloh Wetland Reserve on 27 Aug 2022.

### **Square-tailed Drongo-Cuckoo**

*Surniculus lugubris*

Of the 108 records for the second half of the year, 56% were from the Central Catchment, buffer Nature Parks and the immediate vicinity, while a further 29% came from observers at Singapore Botanic Gardens. Other locations include Berlayer Creek, Changi Business Park, Coney Island, Gardens-by-the-Bay, Kranji Marsh, Pulau Ubin and Sungei Buloh Wetland Reserve. An immature bird was spotted within the Central Catchment on 17 Sep 2022.

## Large Hawk-Cuckoo

*Hierococcyx sparverioides*

There were three records for the second half of 2022; the first record came from Tuas South on 10 Nov 2022, while an individual each was spotted at Changi Business Park on 27 Nov 2022, and at Sungei Buloh Wetland Reserve on 4 Dec 2022.

## Hodgson's Hawk-Cuckoo

*Hierococcyx nasicolor*

The first record for this species this migratory season was on 10 Nov 2022 at Tuas South, with an adult and first calendar year bird spotted. Individuals were also spotted at the Central Catchment (20 Nov 2022 and 4 Dec 2022), Changi Business Park (27 Nov 2022), Coney Island (23 Dec 2022) and Singapore Botanic Gardens (21 Nov 2022), where birders were able to see the bird for the whole day. Up to two individuals were seen at Windsor Nature Park between 17 and 28 Nov 2022.

## Malaysian Hawk-Cuckoo

*Hierococcyx fugax*

The first record for the season was of a juvenile and an adult spotted at Dairy Farm Nature Park on 28 Aug 2022. An individual was spotted in the Central Catchment on 20 Nov 2022, while single birds were seen at Dairy Farm on 20 and 25 Nov 2022.

## Indian Cuckoo

*Cuculus micropterus*

The first record for the season was on 24 Oct 2022 of an individual seen at the Kranji Marsh car park, and from Pulau Ubin. There were seven records from the Central Catchment and buffer parks between 28 Oct 2022 and 30 Dec 2022, while the Kranji-Neo Tiew-Lim Chu Kang area (five records between 24 Oct 2022 and 20 Dec 2022), Coney Island (four records between 18 and 31 Dec 2022), and Jurong Lake Gardens (four records between 5 Nov 2022 and 4 Dec 2022) were the other birding hotspots with more than three records. The canal at Changi Business Park, Henderson Waves, Gardens-by-the-Bay, Pasir Ris Park, Singapore Botanic Gardens, Sungei Buloh and Tuas South had between one and three records during this period.

## Grey Nightjar

*Caprimulgus jotaka*

The first record for the season was of a bird spotted at Changi Business Park on 29 Oct 2022. An individual was seen at this same location on 6 Dec 2022. An individual was seen at Bukit Brown on 15 Dec 2022 and 29 Dec 2022, while two birds were spotted in the same tree at Telok Blangah Hill Park on 25 Nov 2022, and three were seen in the Central Catchment on 22 Dec 2022. Individuals were also seen at Holland Plain on 31 Oct 2022, Old Thomson Road on 8 Dec 2022, Singapore Botanic Gardens within the grounds of the Fragrant Garden on 16 Nov 2022, Upper Seletar Reservoir Park on 4 Dec 2022, and at Dempsey Hill between 26 and 29 Dec 2022.

### **White-throated Needletail**

*Hirundapus caudacutus*

Two individuals were seen at Mount Faber on 4 Nov 2022, while up to eleven birds were seen from Henderson Waves on the morning of 13 Nov 2022.

### **Silver-backed Needletail**

*Hirundapus cochinchinensis*

A single individual was seen on 4 Nov 2022 from Mount Faber, while seven birds were seen on 13 Nov 2022 from Henderson Waves. A further five were seen on 14 Nov 2022 from Mount Faber.

### **Brown-backed Needletail**

*Hirundapus giganteus*

Three individuals were seen on 17 Nov 2022 from Mount Faber Park.

### **Plume-toed Swiftlet**

*Collocalia affinis*

Birds were seen mostly over the Central Catchment and adjacent buffer parks, as well as over Singapore Botanic Gardens, and Nanyang Technological University, throughout the second half of 2022. Small numbers were spotted at various locations, such as the former Transview Golf Course at Dover, Dempsey Hill, Jurong Lake Gardens, Labrador Park, Henderson Waves, Telok Blangah Hill Park, Singapore Chinese Cultural Centre at Shenton Way, Gardens-by-the-Bay, Marina East Drive, and Pasir Ris Park. Notable numbers seen include ten at Hindhede Nature Park on 4 Jul 2022, 12 at Singapore Botanic Gardens on 14 Oct 2022, 20 at Dairy Farm on 19 Nov 2022, and ten at BirdLife International (Asia) at Kay Siang Road on 8 Dec 2022.

### **Black-nest Swiftlet**

*Aerodramus maximus*

At least 20 were seen at their nests in Sentosa on 9 Sep 2022 by a research team.

### **Germain's Swiftlet**

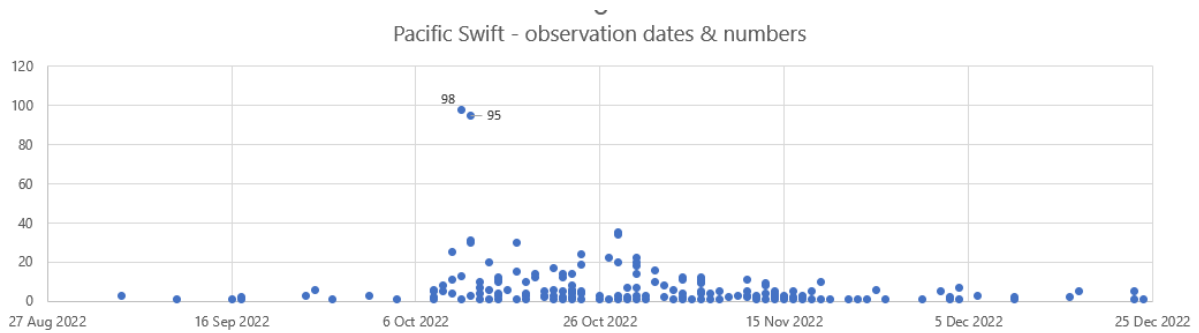
*Aerodramus germani*

At least 20 were seen at their nests in Sentosa on 9 Sep 2022 by a research team.



## Pacific Swift

*Apus pacificus*

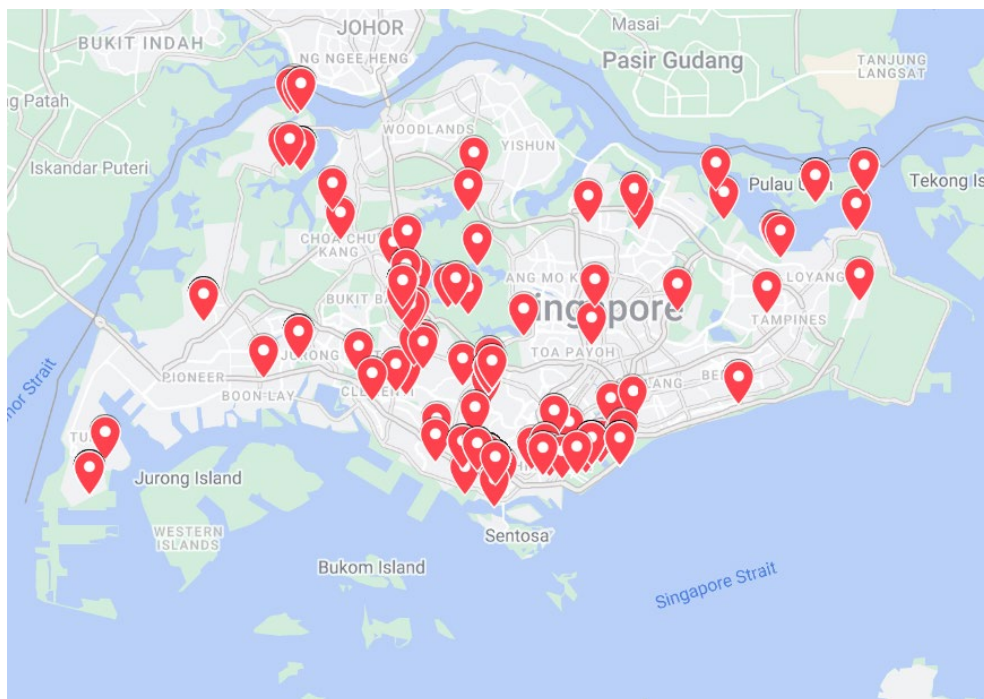


The first record of the species was reported on 4 Sep 2022 from Rifle Range Link. Sightings peaked on 11 Oct 2022, with 98 birds seen over Chestnut Nature Park, and on 12 Oct 2022, with 95 individuals seen over Bukit Timah Hill, and petered off towards mid-November 2022.

Birds were seen over the Central Catchment and buffer nature parks, particularly those near Bukit Timah Hill, the Southern Ridges, and Singapore Botanic Gardens, among other birding hotspots. Given that the peak during the first half of 2022 occurred around early Mar 2022, it would be instructive to look out for peak numbers around Mar 2023.

## House Swift

*Apus nipalensis*

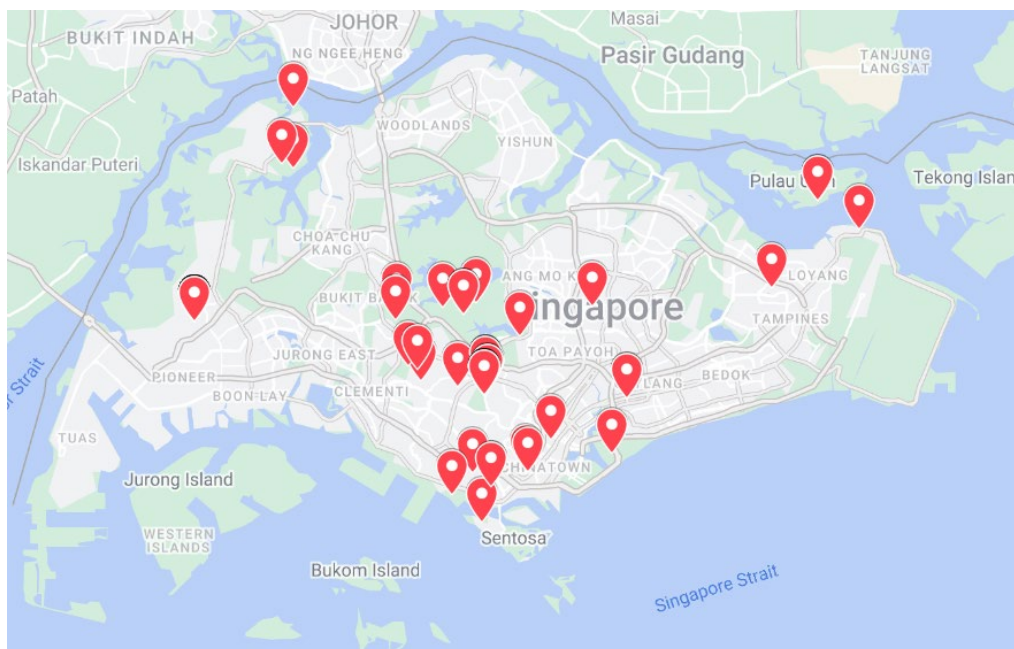


Map showing sighting locations of the House Swift between Jul and Dec 2022.

A total of 303 sighting records, were reported between Jul and Dec 2022. High counts were recorded at Bukit Timah Nature Reserve (10) on 4 Oct 2022, near Bayshore (10) on 22 Oct 2022,

Esplanade Park (13) on 29 Jul 2022, at Mount Faber Park (20 on 21 Oct 2022 and 12 on 14 Nov 2022), and at Singapore Cruise Centre, Harbourfront (20 on 20 Nov 2022).

### **Asian Palm-Swift** *Cypsiurus balasiensis*



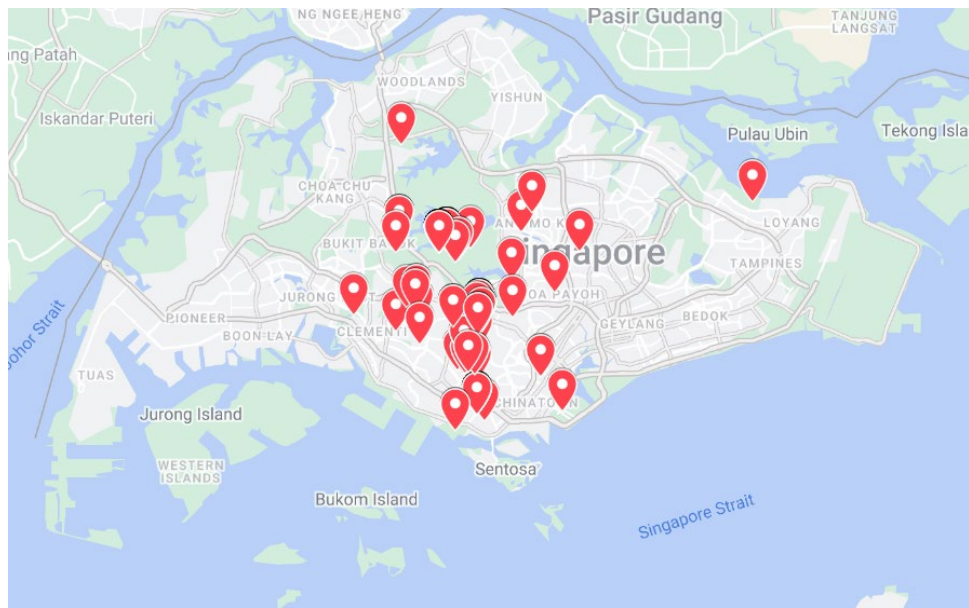
*Map showing sighting locations of the Asian Palm-Swift between Jul and Dec 2022.*

Key areas remain around the Central Catchment and buffer parks, Nanyang Technological University, and Singapore Botanic Gardens, with other sightings at Holland Linear Park, Mount Faber Park, Fort Canning Park, Gardens-by-the-Bay, Tampines Eco Green, Neo Tiew Harvest Lane, and Singapore General Hospital.



## Grey-rumped Treeswift

*Hemiprocne longipennis*

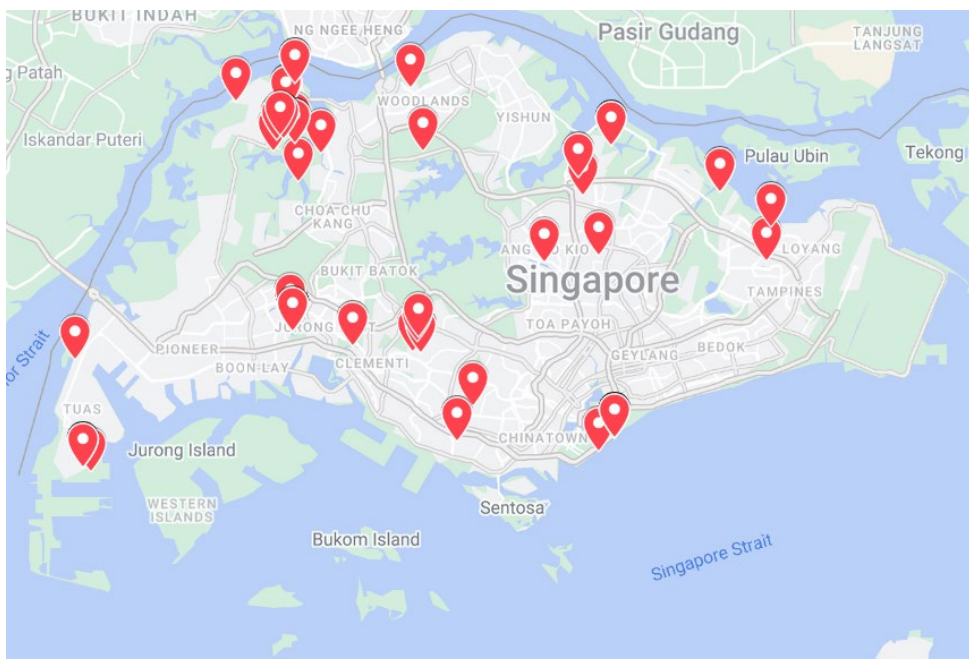


Map showing sighting locations of the Grey-rumped Treeswift between Jul and Dec 2022.

The bulk of sighting records came from the Central Catchment region and Singapore Botanic Gardens. Additional records came from Ang Mo Kio Town Garden West, Holland Linear Park, Ulu Pandan Park Connector, Henderson Waves, Fort Canning Park, Berlayer Creek boardwalk, Central Boulevard, Toa Payoh Sensory Park, and Dawson-Margaret Drive, where an active nest was reported on 3 Jul 2022 and 10 Sep 2022, with additional sighting records in Oct and Dec 2022. A high count of 11 was recorded from the Botanic Gardens on 12 Nov 2022.

## Slaty-breasted Rail

*Lewinia striata*



Map showing sighting locations of the Slaty-breasted Rail between Jul and Dec 2022

This elusive species was frequently seen at Jurong Lake Gardens throughout the second half of the year, with up to seven birds seen on 13 Aug 2022. Birds could also be spotted in any suitable habitat; for example, nine were seen in a freshly cut field on 11 Jul 2022 at Serangoon North View. Breeding records included an adult with two juveniles on 26 Jul 2022 at Greenleaf View, four chicks seen at Seletar Aerospace Crescent on 27 Aug 2022, and a parent with two chicks at Neo Tiew Harvest Lane on 22 Dec 2022.

### **Eurasian Moorhen**

*Gallinula chloropus*

The bulk of sightings were reported from the flooded fields of Marina East Drive between Oct and Dec 2022. Other locations included the tidal canal parallel to Lim Chu Kang Lane 3 (single individual on 6 Dec 2022), East Coast Park Carpark B1 (one bird on 16 Dec 2022), and Tuas South Avenue 16 (an individual on 20 Oct 2022 and 5 Nov 2022). Breeding records came mainly from Marina East Drive, with reports of between one and two adults, with up to three chicks commencing from 17 till 31 Dec 2022. A juvenile was spotted at Lorong Halus Wetland on 25 Dec 2022.

### **Black-backed Swamphen**

*Porphyrio indicus*

A single individual was spotted at Changi Business Park on 20 Jul 2022.

### **White-browed Crake**

*Poliolimnas cinereus*

Sightings were concentrated around Neo Tiew Crescent, Turut Track and Lim Chu Kang Lane 3. Observers noted a single individual spotted in the ponds within private property at Neo Tiew, between 22 Aug 2022 and 4 Dec 2022. Up to four birds were seen at Lim Chu Kang on 24 Jul 2022

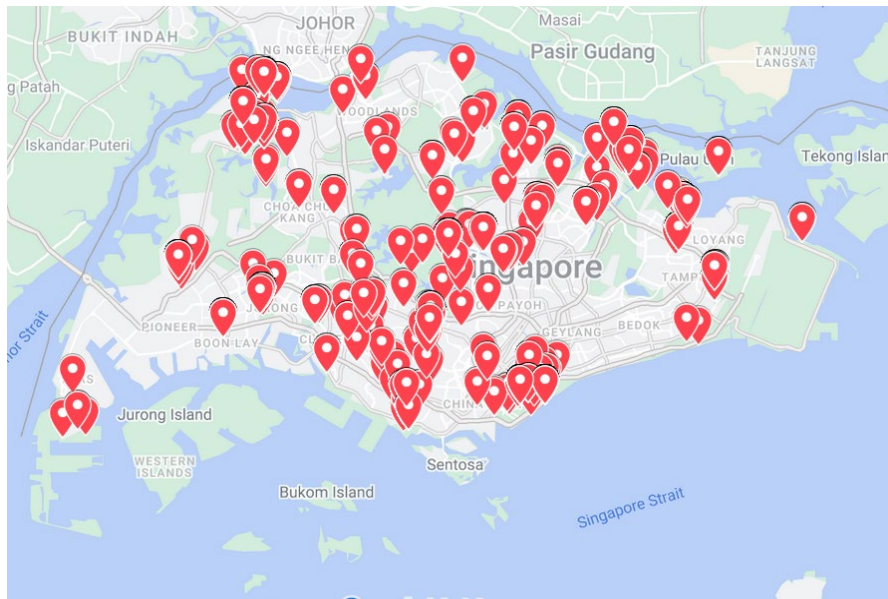
### **Watercock**

*Gallicrex cinerea*

Records of this species were sparse for the second half of 2022, with only 12 sightings. The earliest report was of an individual at Lim Chu Kang Lane 3 on 4 Dec 2022. Individuals were seen at Neo Tiew between 26 and 31 Dec 2022, while single birds were spotted at Marina East Drive on 18 and 23 Dec 2022, and Kranji Marsh on 20 Dec 2022. A single bird was found tired at Level 3 of the multi-storey carpark at Block 26 Jalan Mebina on 27 Dec 2022, but was subsequently able to fly away on its own.

## White-breasted Waterhen

*Amaurornis phoenicurus*



Map showing sighting locations of the White-breasted Waterhen between Jul and Dec 2022

A total of 1,888 sighting records were reported between Jul and Dec 2022.

## Red-legged Crake

*Rallina fasciata*



Map showing sighting locations of the Red-legged Crake between Jul and Dec 2022

Birds were regularly seen at Dairy Farm Nature Park between 25 Jul 2022 and 31 Dec 2022, Hindhede Nature Park between 11 Jul 2022 and 17 Nov 2022, MacRitchie Reservoir Park and environs between 6 Jul 2022 and 25 Dec 2022, Singapore Botanic Gardens between 24 Jul 2022 and 31 Dec 2022, Thomson Nature Park between 9 Jul 2022 and 30 Aug 2022, and Windsor Nature Park between 8 Jul 2022 and 26 Oct 2022.

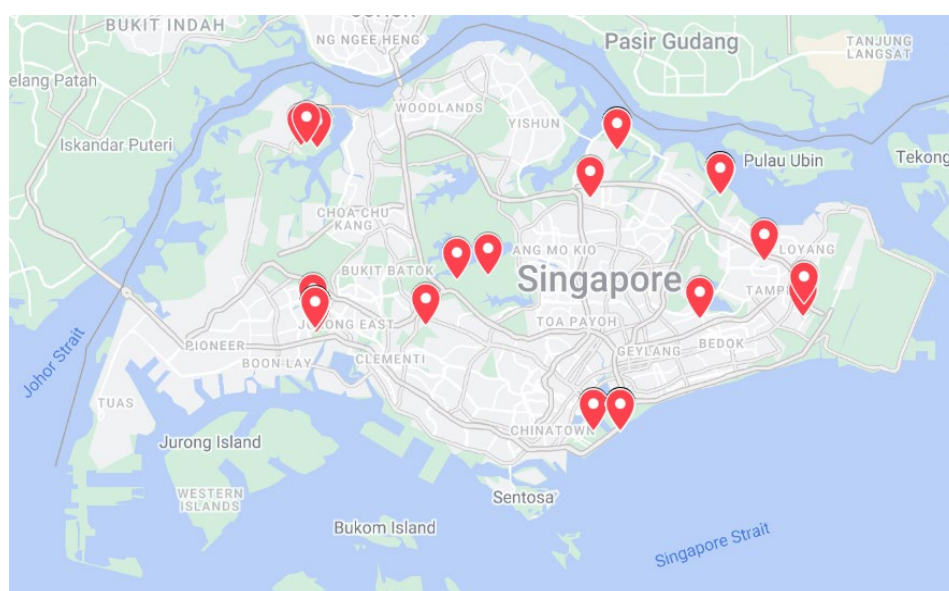
Other locations with sightings of individuals include Gardens- and Satay-by-the-Bay (between 6 Aug 2022 and 19 Dec 2022), Neo Tiew (on 10 Jul 2022 and 3 Dec 2022), Sungei Buloh Wetland Reserve (1 and 2 Sep 2022), Seletar End/Piccadilly (27 Nov 2022), Changi Business

Park canal (6 Dec 2022), Dover Forest (21 Dec 2022) and Bukit Brown Cemetery (15 and 22 Dec 2022).

Breeding records were reported from Gardens-by-the-Bay of one adult and two chicks on 3 Aug 2022, and two adults and four chicks on 20 Oct 2022, and from Singapore Botanic Gardens at the Ginger Garden on 31 Dec 2022 of two adults and a juvenile.

## Ruddy-breasted Crake

*Zapornia fusca*



Map showing sighting locations of the Ruddy-breasted Crake between Jul and Dec 2022

Sightings were recorded from Jurong Lake Gardens between 31 Jul 2022 and 20 Dec 2022, Gardens-by-the-Bay between 28 Aug 2022 and 2 Oct 2022, Lorong Halus Wetlands between 19 Aug 2022 and 1 Oct 2022, the flooded fields along Marina East Drive between 15 Aug 2022 and 30 Dec 2022, at Seletar End/Piccadilly from 6 Aug 2022 to 2 Dec 2022. Other locations included Bedok North (20 Oct 2022), Changi Business Park (5 Dec 2022), Holland Plain along Blackmore Drive (12 Dec 2022), Kranji Marsh (7 Aug 2022, 31 Oct 2022, 4 Dec 2022), Neo Tiew Harvest Lane (3 Dec 2022), the ranger hut at Central Catchment (21 Oct 2022), and Tampines Eco Green (7 Aug 2022). There were no breeding records.

## Black-winged Stilt

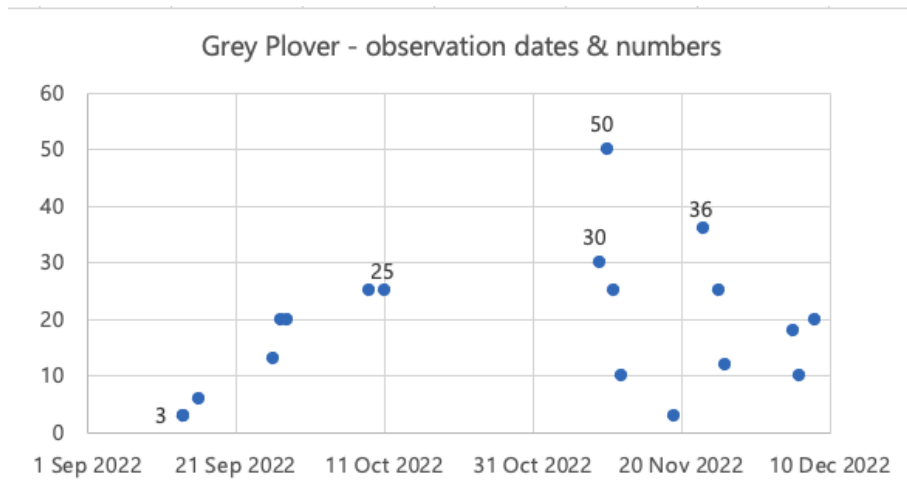
*Himantopus himantopus*

Two birds were seen at Seletar Dam on the morning of 5 Aug 2022, while another two were spotted at Sungei Buloh Wetland Reserve on 8 Aug 2022. A single bird was seen at the vicinity of Tuas South Avenue 16 on 13 Oct 2022.



## Grey Plover

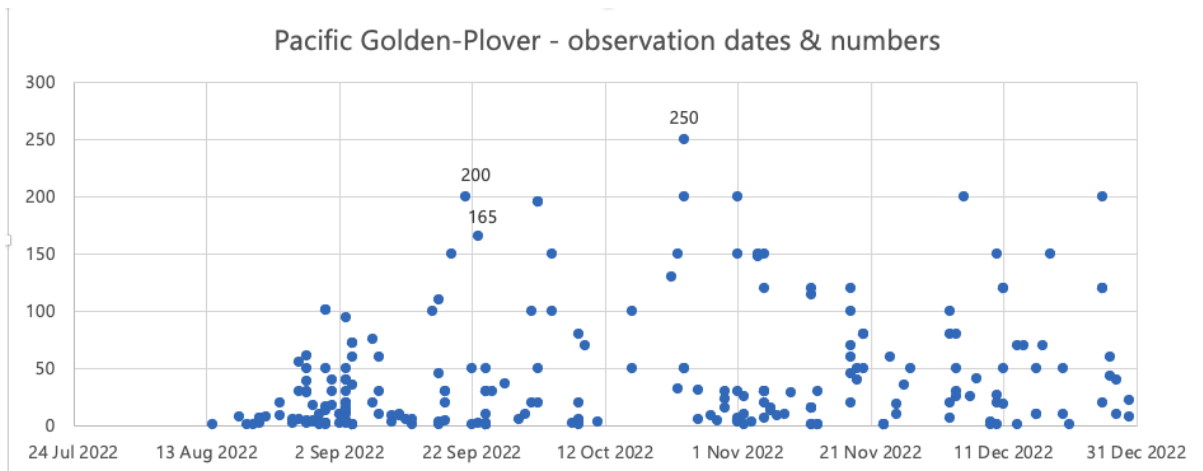
*Pluvialis squatarola*



Birds were seen feeding at Chek Jawa between 14 Sep 2022 and 8 Dec 2022. High counts occurred on 10 Nov 2022 with 50 individuals, 9 Nov 2022 with 30 birds and on 23 Nov 2022 with 36 birds, Numbers began reducing thereafter.

## Pacific Golden-Plover

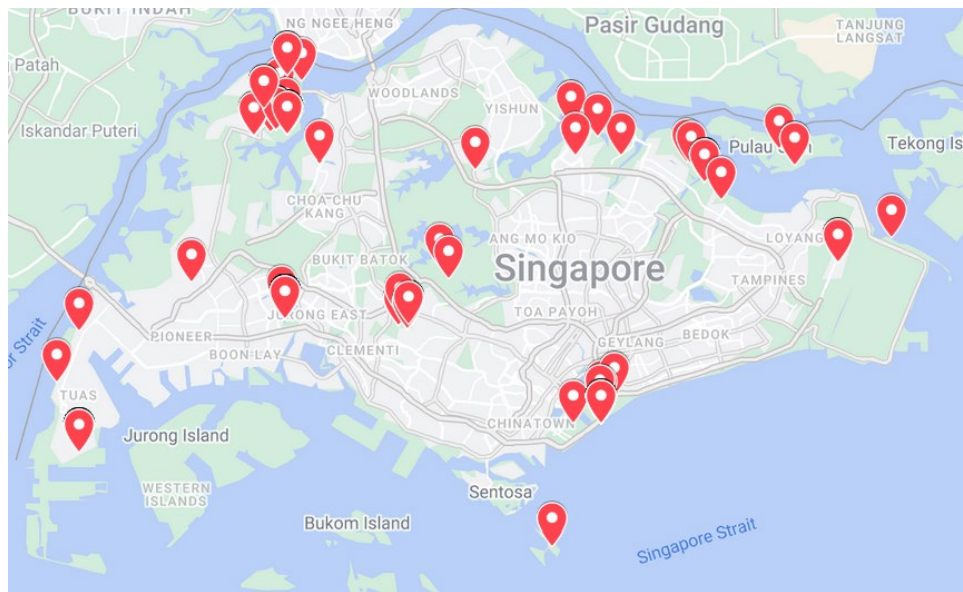
*Pluvialis fulva*



The earliest arrival was recorded on 31 Aug 2022 at Neo Tiew Crescent with two birds seen. Birds were reported from Marina East Drive, Kranji Marsh, Chek Jawa Wetlands, Tuas Desalination Plant, and Sungei Buloh Wetland Reserve. The highest count reported was from Sungei Buloh Wetland Reserve on 24 Oct 2022, with 250 birds spotted at 11:18am. High counts of 200 were noted from Sungei Buloh again on 21 Sep 2022, 24 Oct 2022, 1 Nov 2022, 24 Nov 2022, 5 Dec 2022 and 26 Dec 2022.

## Red-wattled Lapwing

*Vanellus indicus*

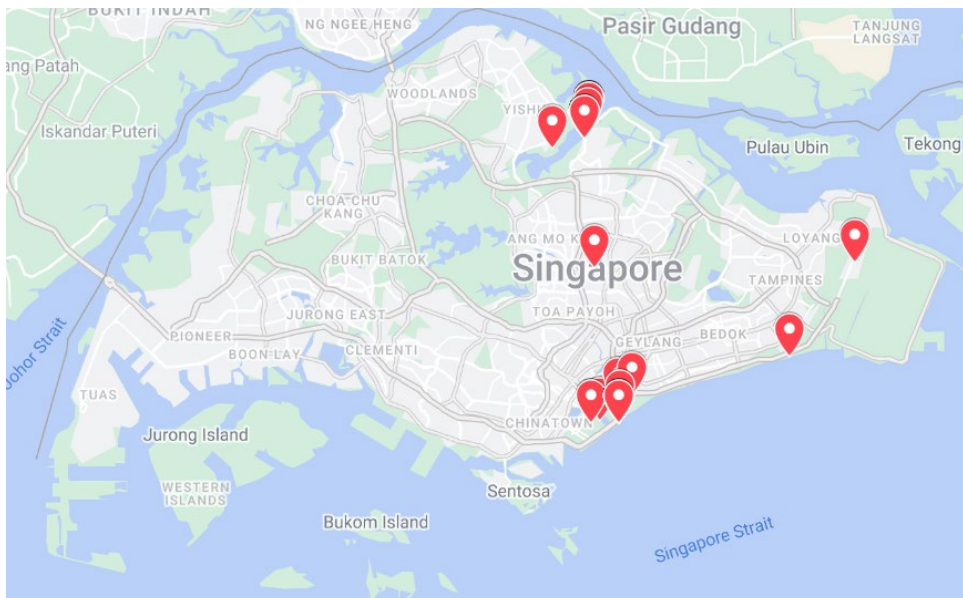


Map showing sighting locations of the Red-wattled Lapwing between Jul and Dec 2022

High counts were reported from Marina East Drive (8) on 14 Aug 2022, Tuas West Drive (9) on 27 Sep 2022 and Lorong Halus Wetland (9) on 19 Nov 2022, and in a field opposite Block 662A, Edgedale Plains (14) on 5 Oct 2022. Interestingly, three birds were seen on 22 Oct 2022 on Kias Island, off Lazarus Island in the southern islands. No breeding was reported.

## Masked Lapwing

*Vanellus miles*



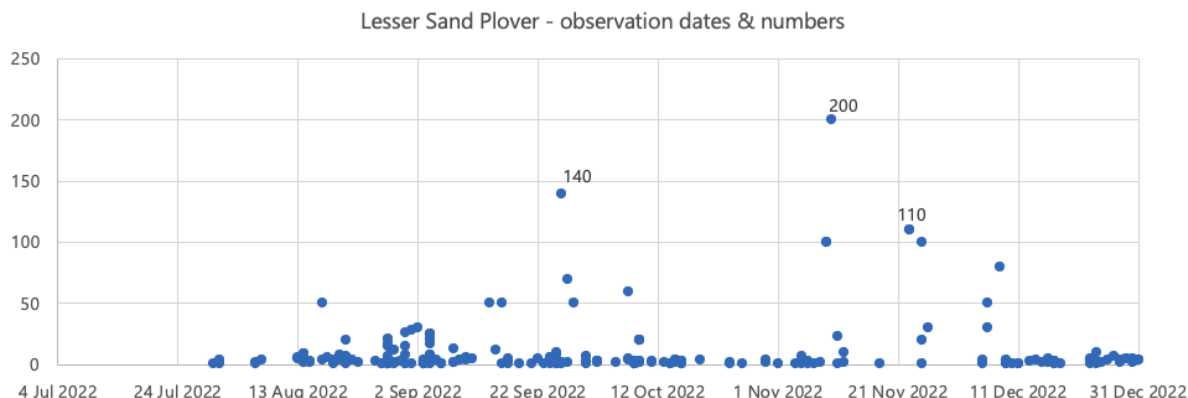
Map showing sighting locations of the Masked Lapwing between Jul and Dec 2022

Birds are found mainly at Marina East Drive and Rower's Bay at Seletar, with records also from Gardens- and Satay-by-the-Bay, East Coast Park around Fort Road, Changi Airport, and Orchid Country Club. High numbers were recorded from Seletar Dam (12) on 4 Dec 2022, Marina East

Drive (12) on 17 and 29 Dec 2022, and Rower's Bay Park (10) on 31 Dec 2022. No breeding was reported.

## Lesser Sand-Plover

*Charadrius mongolus*



The first arrivals were reported from Marina East on 30 Jul 2022 of a single bird, and on 31 Jul 2022 of four individuals at Seletar Dam and a single bird at Sungei Buloh Wetland Reserve. The principal locations of reports came from Sungei Buloh, Seletar Dam, Pulau Ubin, and Marina East Drive, with reports from Tuas and Changi Bay Point.

High numbers from 100 and above were all reported from Chek Jawa, with 140 first reported on 26 Sep 2022 at 4:04pm, followed by 100 on 9 Nov 2022 at around 3:50pm, and 200 birds the next day on 10 Nov 2022 at 4:45pm. A total of 110 birds were counted on 23 Nov 2022 between 7:10am and 2:40pm, while 100 were counted on 25 Nov 2022 at 2:45pm.

## Greater Sand Plover

*Charadrius leschenaultii*

The earliest record for this season came from Seletar Dam when a single bird was observed feeding with Lesser Sand Plovers between 7:20am and 10:05am along the sandbank. An individual was seen again on 4 Sep 2022 at Seletar Dam from 9:10am to 11:29am, while a third record of two birds (unconfirmed) was reported from the same location on 17 Sep 2022. An individual was seen at Sungei Buloh Wetland Reserve on 11 Sep 2022 at 10:15am, and another was spotted on 3 Dec 2022 at Buloh at around 1pm from Hide 1.1.

## Malaysian Plover

*Charadrius peronii*

The bulk of observations came from the Marina East breakwater, High counts of eight birds were reported from the breakwater area on 10 and 11 Dec 2022, while ten birds were spotted on 10 and 17 Dec 2022. Between one and two birds were seen at Changi Bay Point on 5 Jul 2022 and 8 Aug 2022, three birds were reported from the coast off Pasir Ris Park Carpark D, and between one and two individuals were seen along the coast off Tuas South Avenue 16.

There was a report of six birds seen at Marina South Promenade on 24 Sep 2022. There were no breeding records.

### **Kentish Plover**

*Charadrius alexandrinus*

The earliest arrival record was of two birds seen along the breakwater at Marina East Drive on 4 Sep 2022. Birds continued to be seen in country until 31 Dec 2022. The bulk of sightings were concentrated at the Marina East breakwater, with a sighting of an individual off Tuas South Avenue 1 on 9 Oct 2022, and one record of a single bird from the foreshore of Sentosa on 9 Dec 2022. The highest count of seven birds was recorded off Marina East on 17 Dec 2022.

### **White-faced Plover**

*Charadrius dealbatus*

The first record for the season was of two individuals spotted at the breakwater off Marina East Drive on 24 Sep 2022. Small numbers continue to be seen in-country until 31 Dec 2022. The bulk of sighting records came from the Marina East breakwater, with one report of two birds spotted off Tuas South Avenue 1 on 7 Oct 2022. The highest count for the species was of four birds seen at the Marina breakwater on 9 Oct 2022, 15 Oct 2022, 6 Nov 2022, 7 Nov 2022 and 17 Dec 2022.

### **Little Ringed Plover**

*Charadrius dubius*

The earliest arrival record came from the canal along Lim Chu Kang Lane 3, where three individuals were spotted on 7 Aug 2022. This season, the bulk of records came from Lim Chu Kang Lane 3, the area around Tuas South Avenue 16, and the breakwater off Marina East Drive. Records of between one and two birds were also reported from Lorong Halus Wetland on 21 Aug 2022, and Chek Jawa on 9 and 23 Nov 2022. High counts were recorded from Tuas, with seven seen on 13 Oct 2022, 10 on 20 Oct 2022, 15 on 24 Oct 2022, and nine on 9 Nov 2022.

### **Oriental Plover**

*Charadrius veredus*

An individual was seen on 7 Oct 2022 at around 9:30am off Tuas South Avenue 1.

### **Greater Painted-Snipe**

*Rostratula benghalensis*

The flooded fields off Marina East Drive proved to be a popular location to spot these shy birds as bulk of sighting records came from here. Groups of between two and three birds, which totalled up to 15 on 9 Dec 2022, could be seen between 14 Aug 2022 and 29 Dec 2022. The fields at Seletar End/Piccadilly were also reported to yield good numbers as birds could be seen here between 11 Aug 2022 and 21 Dec 2022; with high counts totalling ten birds on 26 Nov 2022, 27 Nov 2022 and 21 Dec 2022.



Other locations include Gardens-by-the-Bay, where two were seen on 12 Jul 2022, the canal along Lim Chu Kang Lane 3, where a single bird was seen on 12 Nov 2022 and 24 Nov 2022, Lorong Halus Wetland, where a female was seen on 13 Aug 2022, while three were spotted on 29 Sep 2022, and Neo Tiew Harvest Lane, where four were seen on 31 Oct 2022. There were no breeding records.

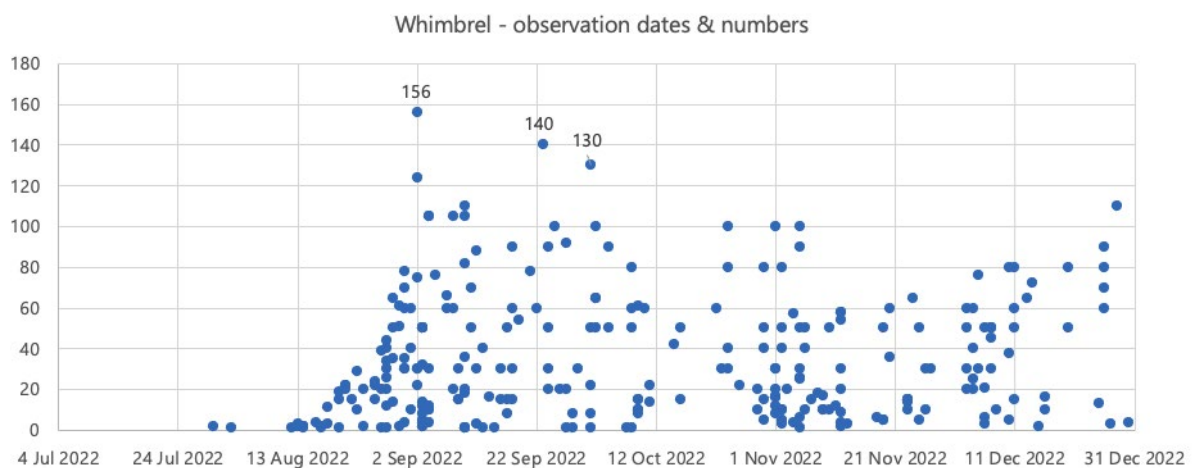
## Pheasant-tailed Jacana

*Hydrophasianus chirurgus*

An individual was reported from the Sensory Trail Pond at Pulau Ubin on 30 Oct 2022, while another was reported from within the water bodies of the Central Catchment on 16 Dec 2022.

## Whimbrel

*Numenius phaeopus*



The earliest sighting records came from Sungei Buloh Wetland Reserve with two birds arriving on 30 Jul 2022. The bulk of sighting records came from Sungei Buloh Wetland Reserve from 30 Jul 2022 to 30 Dec 2022, and Chek Jawa from 17 Aug 2022 to 8 Dec 2022. Birds were also seen at Seletar Dam between 12 Aug 2022 and 1 Oct 2022, with 12 seen on 28 Aug 2022 and 18 on 10 Sep 2022, at Mandai Mudflats with 50 on 7 Dec 2022, at Marina East Drive on 9 Oct 2022 (8), along the coast off Nanyang Technological University on 1 Nov 2022 (16), at Pasir Ris Park on 28 Sep 2022 (1), and a single bird in flight over Clementi Forest on 2 Aug 2022. High counts were recorded from a private fish pond at Neo Tiew Crescent on 2 Sep 2022, and at Sungei Buloh Wetland Reserve with 124 birds on 2 Sep 2022, 140 birds on 23 Sep 2022, and 130 individuals on 1 Oct 2022.

## Bar-tailed Godwit

*Limosa lapponica*

Between one to two birds were reported from Chek Jawa, Pulau Ubin, from 27 Sep 2022, which was the first record, to 8 Dec 2022.

## **Black-tailed Godwit**

*Limosa limosa*

A single individual was reported from Sungei Buloh Wetland Reserve from 29 to 31 Aug 2022.

## **Ruddy Turnstone**

*Arenaria interpres*

The first record for the season was of a single bird reported from Chek Jawa on 27 Sep 2022. All subsequent sightings recorded from Chek Jawa, with birds reported to be either at Chek Jawa, or surrounding rocks, including Sekudu Rocks. High counts were recorded on 19 Nov 2022 (10) on Sekudu, 23 Nov 2022 (12) and 5 Dec 2022 (11) on Sekudu.

## **Great Knot**

*Calidris tenuirostris*

An individual was reported from Chek Jawa from 8 to 10 Nov 2022.

## **Broad-billed Sandpiper**

*Calidris falcinellus*

An individual was spotted at Chek Jawa between 8 to 10 Nov 2022, while another record was reported from the same location on 23 Nov 2022 from 7:10am to 2:45pm.

## **Curlew Sandpiper**

*Calidris ferruginea*



A Curlew Sandpiper photographed by Joseph Lim on 30 Oct 2022 at Sungei Buloh.

An individual reported from Sungei Buloh Wetland Reserve on 30 Oct 2022 constituted the earliest record for the species for this season. Subsequent sightings were reported from Chek Jawa. Between 8 and 10 Nov 2022, between two and six individuals were counted feeding at the mudflats, while on 25 Nov 2022, eight birds were seen foraging, the highest count for the season. On 5 Nov 2022, a visitor counted seven birds.

### **Long-toed Stint**

*Calidris subminuta*

One bird was recorded from the area around Tuas South Avenue 16 on 13 Oct 2022.

### **Red-necked Stint**

*Calidris ruficollis*

The season's first record came from Chek Jawa on 26 Sep 2022, when 13 birds were spotted. High counts between 50 and 60 individuals were recorded between 8 and 10 Nov 2022, with another peak of between 20 and 30 birds recorded on 25-26 Nov 2022. Counts in-between these dates, as well as up to 6 Dec 2022, saw between two and eight individuals feeding in the inter-tidal flats. Two birds were reported from off Tuas South Avenue 16 on 14 Oct 2022.

### **Sanderling**

*Calidris alba*

The earliest record for the species this season came from an individual spotted from Chek Jawa on 27 Sep 2022. Two birds were subsequently seen on 10 Nov 2022 and 23 Dec 2022. A pair was recorded from the Marina East Drive breakwater on 7 Nov 2022.

### **Little Stint**

*Calidris minuta*

An individual was seen feeding alone away from the rest of the shorebirds at Chek Jawa on 24 Nov 2022.

### **Asian Dowitcher**

*Limnodromus semipalmatus*

An individual was reported from Marina East on 28 Aug 2022 at 12:46pm.

### **Common Snipe**

*Gallinago gallinago*

The earliest record for the season came from six birds spotted on 27 Nov 2022 at Seletar End/Piccadilly. Subsequently, up to five were seen at the same location on 29 Nov 2022, while between three and ten birds were spotted on 2 Dec 2022. Two birds were seen on 21 Dec 2022. Visitors to Marina East Drive spotted two birds in the flooded fields on 9 Dec 2022, while one was seen on 9 Dec 2022. Two individuals next to the LTA building were spotted on 28 Dec

2022, with one caught by a passing Changeable Hawk-Eagle. One bird was flushed on 29 Dec 2022 from the east end of the flooded marshes.

### **Pin-tailed Snipe**

*Gallinago stenura*

The earliest record for the season was from an individual spotted at the canal along Changi Business Park on 13 Nov 2022. Single birds were seen at Seletar End/Piccadilly on 29 and 30 Nov 2022, and on 3 Dec 2022.

### **Terek Sandpiper**

*Xenus cinereus*



*A Terek Sandpiper (in foreground) photographed from Sungei Buloh on 3 Sep 2022 by Joseph Lim.*

The first record for the season came from a single bird reported from Sungei Buloh Wetland Reserve on 3 Sep 2022, and was reported by Joseph Lim. The first eBird record came from Seletar Dam on 8 Sep 2022; two were subsequently seen and photographed together on 10 Sep 2022. Over at Chek Jawa, three birds were first reported on 14 Sep 2022. Birds continued to be seen between 16 and 27 Sep 2022, with a high of eight on 16 Sep 2022; subsequent sightings comprised four birds on 26 and 27 Sep 2022. Birds continued to be spotted until 5 Dec 2022; with highs of nine on 9 Oct 2022 and four on 9 Nov 2022; records on most days were of single birds, though two had been spotted on 10 & 11 Nov 2022, and 5 Dec 2022. The regular visitor, tagged B5, returned this season to Sungei Buloh and was first recorded on 31

Aug 2022, and continued to be reported until 4 Nov 2022. A single bird continued to be reported thereafter until 30 Dec 2022; this could be B5 as it had been the single Terek Sandpiper at Sungei Buloh during past seasons.

### Common Sandpiper

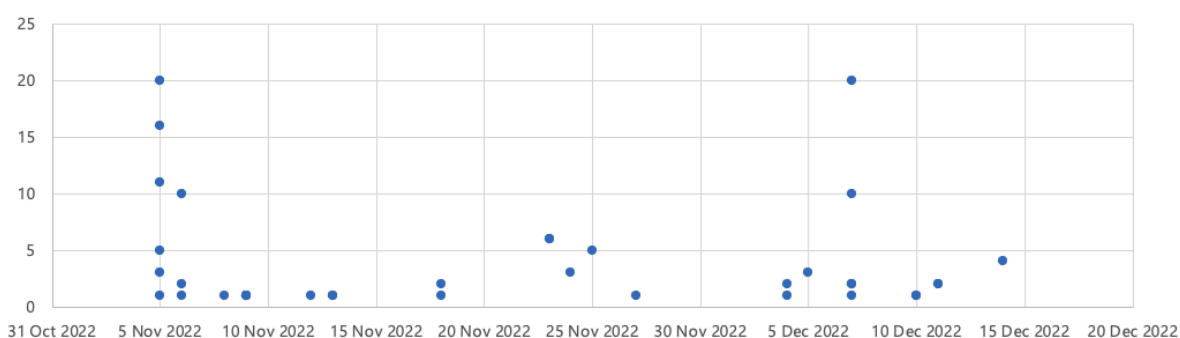
*Actitis hypoleucos*

The first arrival for the season came from a record of an individual feeding along the concrete edge of Pang Sua Canal on 14 Jul 2022.

### Common Greenshank

*Tringa nebularia*

Common Greenshank - observation dates & numbers

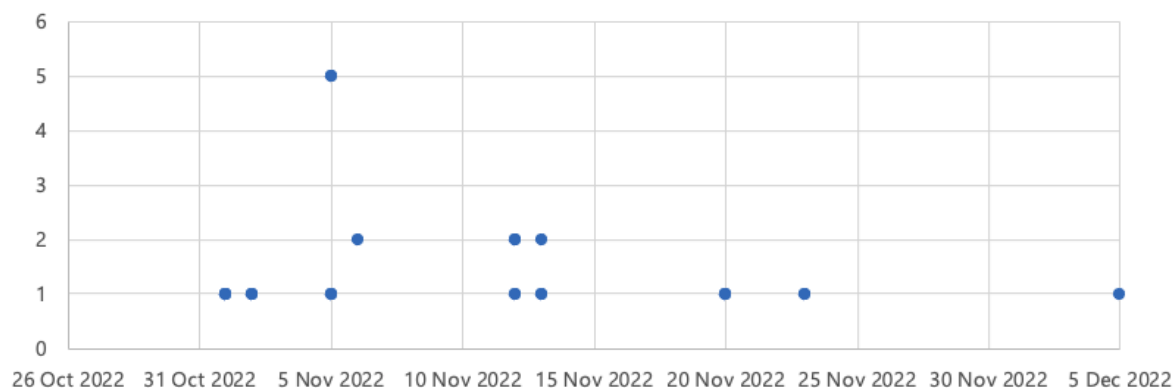


The first record for this season came from two birds seen at Chek Jawa on 3 Jul 2022. The bulk of sightings came from Sungei Buloh Wetland Reserve and Chek Jawa, with sightings recorded at Seletar Dam, Mandai Mudflats, and off Tuas South Avenue 16.

### Marsh Sandpiper

*Tringa stagnatilis*

Marsh Sandpiper - observation dates & numbers



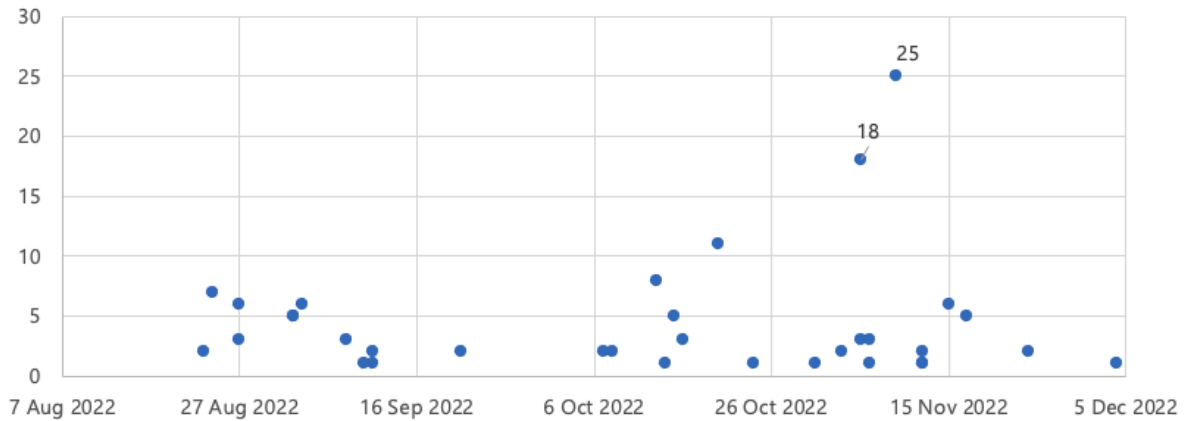
The first record for the season came from an individual spotted at Sungei Buloh Wetland Reserve on 28 Aug 2022. Bulk of the records came from Sugei Buloh, with high counts of five recorded on 2 Sep 2022 and 5 Nov 2022. Birds were also seen at Chek Jawa, but were of single birds on 23 Nov 2022 and 5 Dec 2022.



## Wood Sandpiper

*Tringa glareola*

Wood Sandpiper - observation dates & numbers

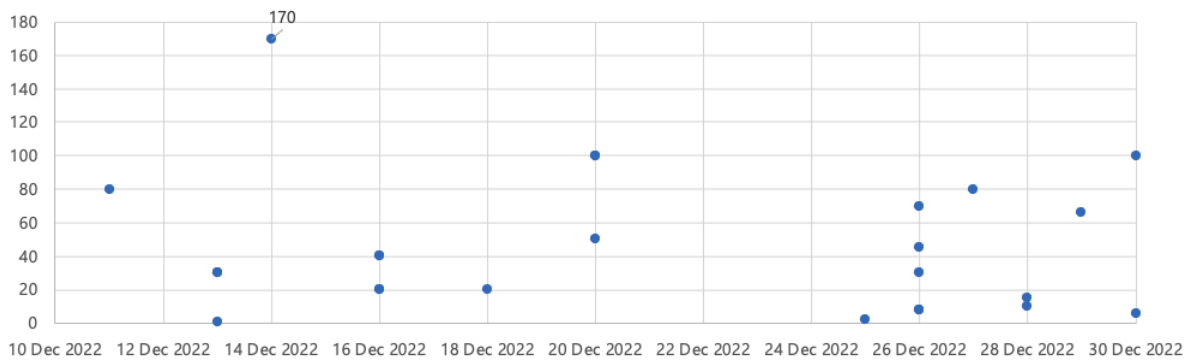


The first record for the season came from two birds spotted in the canal along Lim Chu Kang Lane 3. Records came largely from Lim Chu Kang Lane 3, Sungei Buloh Wetland Reserve and pools around Tuas South; records also came from Lorong Halus Wetlands, Kranji Marsh and Neo Tiew Harvest Lane. High counts recorded from Lim Chu Kang include six seen on 27 Aug 2022 and 3 Sep 2022, as well as seven on 24 Aug 2022. Tuas South yielded higher numbers, with 25 counted on 9 Nov 2022, and 18 on 5 Nov 2022. Buloh only yielded between 1-2 birds.

## Common Redshank

*Tringa totanus*

Common Redshank - observation dates & numbers



The first arrivals comprised four birds at Sungei Buloh Wetland Reserve on 30 Jul 2022. High counts were recorded from Sungei Buloh on 14 Dec 2022 (170), 1 Nov 2022 (150), 2 Sep 2022 (145), and 3 Dec 2022 (140).

## **Barred Buttonquail**

*Turnix suscitator*

A total of three birds, a female and two males, were seen at Jurong Lake Gardens between 9 Jul 2022 and 19 Dec 2022. A male and female were spotted at Aviation Park Road on 8 Jul 2022, while a male was seen on Coney Island on 6 Sep 2022. There were no breeding records.

## **Oriental Pratincole**

*Glareola maldivarum*

The first record was of a single bird spotted at Marina East Drive on 15 Oct 2022; a single bird continued to be seen there until 19 Oct 2022. Birds were seen along the Southern Ridges; one at Henderson Waves on 22 Oct 2022, two on 16 Nov 2022 and three on 20 Nov 2022 at Mount Faber. Pratincoles were also seen at Tuas South, with two spotted on 22 and 24 Oct 2022, as well as six recorded from Tuas South Avenue 3 on 5 Nov 2022. An individual was recorded from the canal at Changi Business Park on 24 Nov 2022 and 26 Nov 2022, while one was seen at Seletar End/Piccadilly on 2 Dec 2022 and one from Changi Beach Park on 12 Dec 2022.

## **Black-headed Gull**

*Chroicocephalus ridibundus*

An individual was recorded from Sungei Buloh Wetland Reserve on 18 Dec 2022.

## **Bridled Tern**

*Onychoprion anaethetus*

Three were recorded in Singapore waters on a pelagic trip on 16 Oct 2022.

Singapore Strait (including Singapore, Malaysian & Indonesian waters) - approximately 70 birds were counted on 27 Jul 2022; two on 24 Sep 2022, and three on 20 Nov 2022.

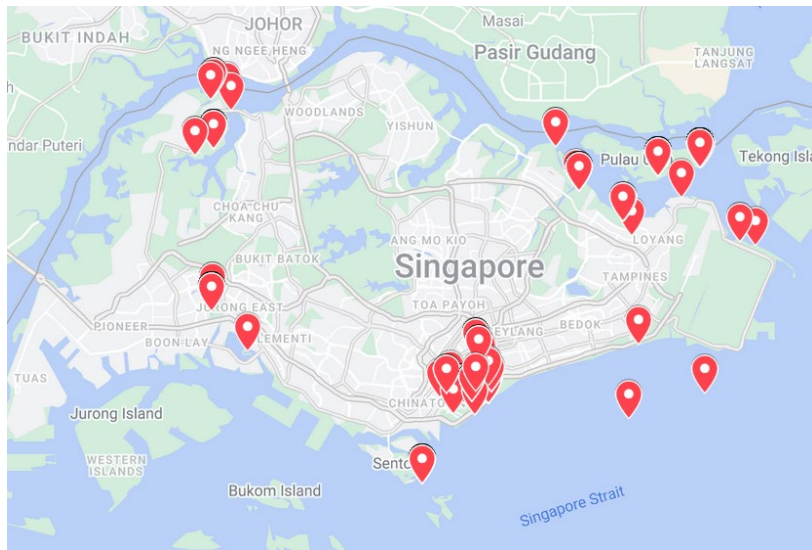
## **Aleutian Tern**

*Onychoprion aleuticus*

Nine were recorded in Singapore waters on a pelagic trip on 16 Oct 2022.

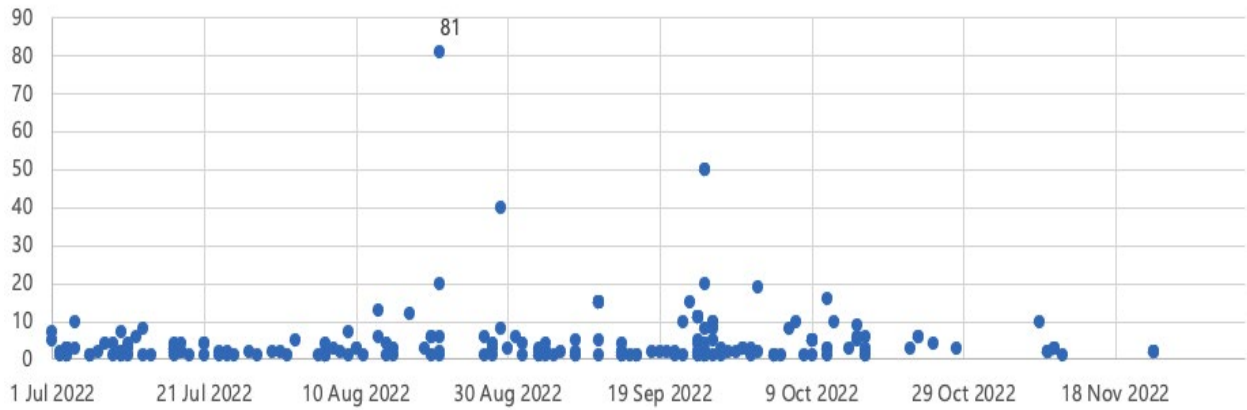
Singapore Strait (including Singapore, Malaysian & Indonesian waters) - nine birds were seen along Singapore Strait on 11 Sep 2022; five on 24 Sep 2022; 13 on 25 Sep 2022, and three on 20 Nov 2022.

## Little Tern *Sternula albifrons*



Map showing sighting locations of the Little Tern between Jul and Dec 2022

Little Tern - observation dates & numbers



Birds were recorded from Jurong Lake Garden (7) and Marina Barrage (5) on 1 Jul 2022. High numbers were recorded from Marina Barrage on 21 Aug 2022, with an estimated number of 81 resting on the breakwater, and about forty at the same location on 29 Aug 2022; the latter observation included juveniles and adults. On 25 Sep 2022, about fifty were recorded.

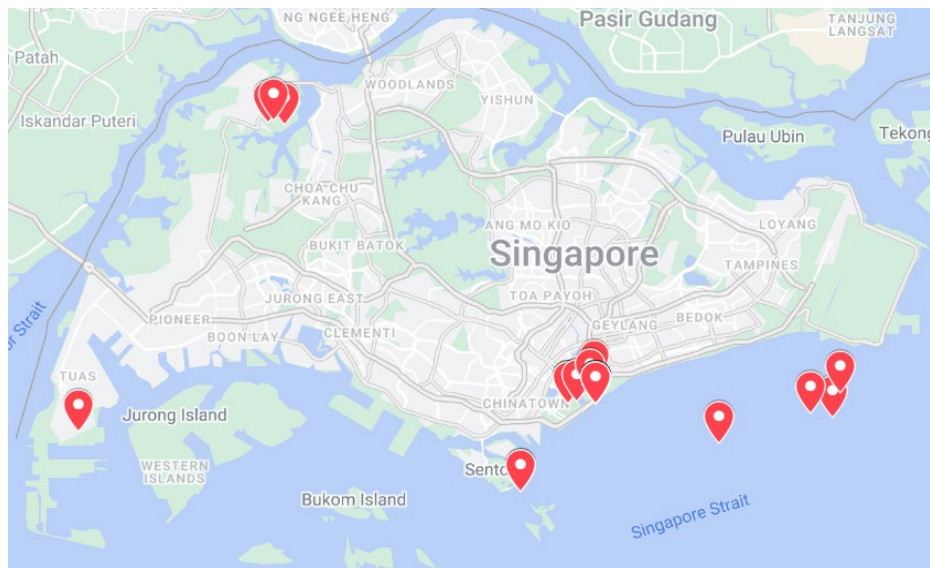
## Gull-billed Tern *Gelochelidon nilotica*

An individual was seen off Marina East on 25 Sep 2022, while another was seen off Chek Jawa from 9 to 11 Nov 2022.



## White-winged Tern

*Chlidonias leucopterus*



Map showing sighting locations of the White-winged Tern between Jul and Dec 2022

An individual was first recorded on 21 Sep 2022 off Marina Barrage; numbers began to build up there on 25 Sep 2022 (7) and 26 Sep 2022 (12). Relatively high counts were reported from around Marina Barrage on 1 Oct 2022 (20), 2 Oct 2022 (20), and 7 Oct 2022 (25).

Singapore Strait (including Singapore, Malaysian & Indonesian waters) - an estimate of 35 birds were recorded from a pelagic trip on 20 Nov 2022.

## Whiskered Tern

*Chlidonias hybrida*

The first record this season was of an individual flying with waders after being spooked by a raptor at Sungei Buloh Wetland Reserve on 3 Sep 2022. Apart from Marina Barrage and the Sports Hub, birds were also seen at Kranji Marsh, Tuas South and Chek Jawa. High numbers were recorded off Kranji Marsh on 24 Oct 2022 (14) and 6 Nov 2022 (8); while an individual was seen fishing over one of the reservoirs in the Central Catchment reserves.

## Black-naped Tern

*Sterna sumatrana*

Between one and three birds were seen along the eastern coastline from Punggol Promenade Nature Walk, Lorong Halus, along Pulau Ubin, to the south at Marina Barrage, Sentosa and Labrador Park between Jul and Oct 2022.

Singapore Strait (including Singapore, Malaysian & Indonesian waters) - eight on 11 Sep 2022 and seven on 24 Sep 2022.

## **Common Tern**

*Sterna hirundo*

An individual was spotted along the outer embankment at Marina Barrage on 11 Oct 2022, while a single bird was spotted among a flock of other terns in Singapore waters during a pelagic trip on 16 Oct 2022.

Singapore Strait (including Singapore, Malaysian & Indonesian waters) - an individual was seen on 24 Sep 2022.

## **Great Crested Tern**

*Thalasseus bergii*

Between one to three birds have been occasionally spotted off Changi Beach Park, Changi Village, Marina Barrage and Tuas South. Bulk of the sightings came from Pulau Ubin. High counts were reported on 23 Nov 2022 with 57 individuals counted, and 47 from Chek Jawa on the same day. Other high counts: 16 on 6 Dec 2022, 21 on 25 Nov 2022 and 23 on 26 Nov 2022.

## **Lesser Crested Tern**

*Thalasseus bengalensis*

An individual was reported off Sungei Buloh Wetland Reserve on 30 Jul 2022. Two were also spotted off Chek Jawa on 9 Nov 2022, and one off Pulau Ubin on 23 Nov 2022. Four were recorded in Singapore waters on a pelagic trip on 16 Oct 2022.

Singapore Strait (including Singapore, Malaysian & Indonesian waters) - three on 25 Sep 2022, and 35 on 20 Nov 2022.

## **Swinhoe's Storm-Petrel**

*Hydrobates monorhis*

Singapore Strait (including Singapore, Malaysian & Indonesian waters) - two birds were seen on 11 Sep 2022 ; 22 were counted on 24 Sep 2022; while only one was seen on 25 Sep 2022.

## **Lesser Adjutant**

*Leptoptilos javanicus*

Sightings were concentrated around Sungei Buloh Wetland Reserve and the surrounding areas of Mandai Mudflats, Lim Chu Kang and Neo Tiew Crescent. Between one and six birds were regularly seen at Sungei Buloh, with high counts of six birds on 17 Jul 2022, 6 Sep 2022, 12 Nov 2022 and 26 Dec 2022, and eight birds on 4 Sep 2022 and 20 Dec 2022. A trip that traversed between Raffles Marina and Mandai Mudflats revealed that there about 15 birds spotted, with between 10 and 13 seen feeding in the Sungei Buloh mudflats.

## Oriental Darter

*Anhinga melanogaster*

The single Darter at Hindhede Nature Park was seen between 4 Jul 2022 and 31 Dec 2022, while a single individual was reported from Pulau Ubin between 24 Oct 2022 and 24 Dec 2022. On one occasion, two birds were reported from Pekan Quarry on Ubin on 22 Dec 2022, while an individual was seen flying overhead Jalan Wat Siam on 24 Dec 2022 in the direction of Punggol. Other sightings of single Darters include over Jelutong Tower on 14 Oct 2022, at Singapore Quarry on 19 Nov 2022, over Pasir Ris Farmway 1 on 20 Dec 2022, over Simpang Kiri at Sembawang on 28 Dec 2022, and at Rower's Bay Park, Seletar Club Road on 31 Dec 2022.

## Great Cormorant

*Phalacrocorax carbo*

Two birds were spotted at Lorong Halus Wetland on 9 Aug 2022, while one was reported from Pulau Ubin on 4 Sep 2022. This species is not in the NSS checklist.

## Black Bittern

*Ixobrychus flavicollis*

Observers spotted a bird in the pond at Satay by the Bay between 3 and 9 Jul 2022. This individual is likely an over-summering bird. The first record for the season came from an individual spotted on 17 Nov 2022 at Tampines Eco Green. Another individual was seen on 30 Dec 2022 at Sungei Buloh Wetland Reserve.

## Grey Heron

*Ardea cinerea*



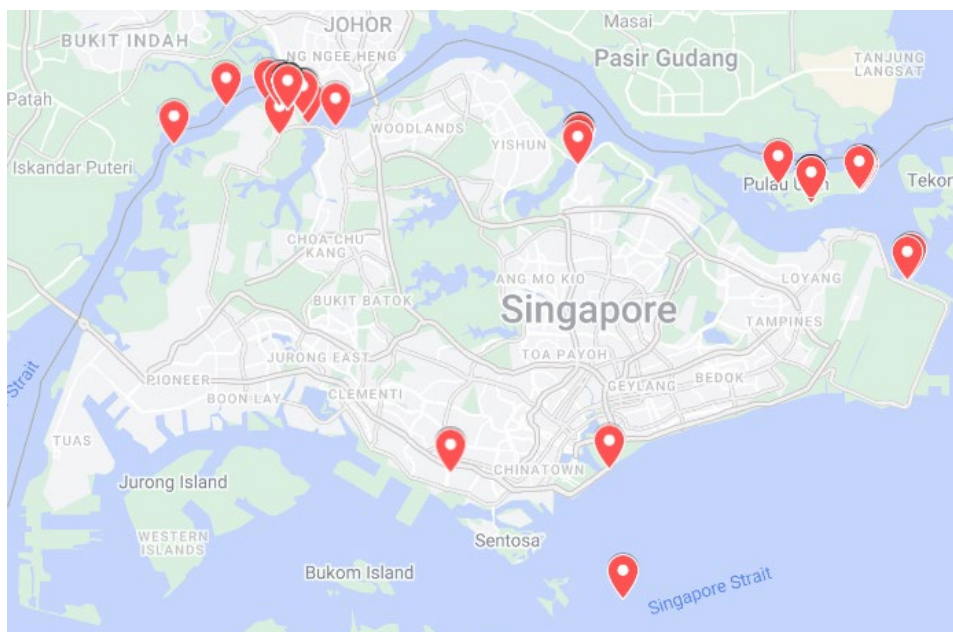
Map showing sighting locations of the Grey Heron between Jul and Dec 2022

A total of 782 sighting records were reported between Jul and Dec 2022. Approximately 100 birds were counted at Pulau Ubin on 30 Oct 2022, while there was another record of 51 birds

seen on Ubin on 23 Nov 2022. Six records between 6 Aug 2022 and 8 Dec 2022 from Ubin showed that high numbers tended to run between 32 and 44 birds.

## Great-billed Heron

*Ardea sumatrana*

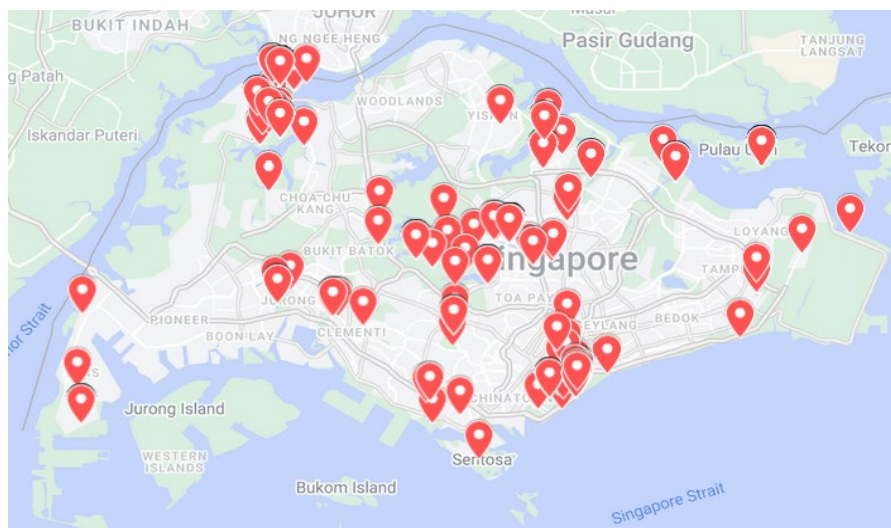


Map showing sighting locations of the Great-billed Heron between Jul and Dec 2022

The bulk of sighting records came from Pulau Ubin (34) and Sungei Buloh Wetland Reserve (70). Observers spotted individuals at Changi Bay Point (10 & 17 Aug 2022), Mandai Mudflats (7 Dec 2022), Marina Barrage (30 Nov 2022) and Seletar Dam (between 26 Aug 2022 and 9 Dec 2022). The highest counts recorded so far have been of five birds on Mandai Mudflats on 7 Dec 2022, and a total of eight on the same day during a pelagic trip along Johor Straits between Raffles Marina and Mandai Mudflats. A juvenile was spotted on 9 and 14 Aug 2022 at Sungei Buloh.

## Purple Heron

*Ardea purpurea*



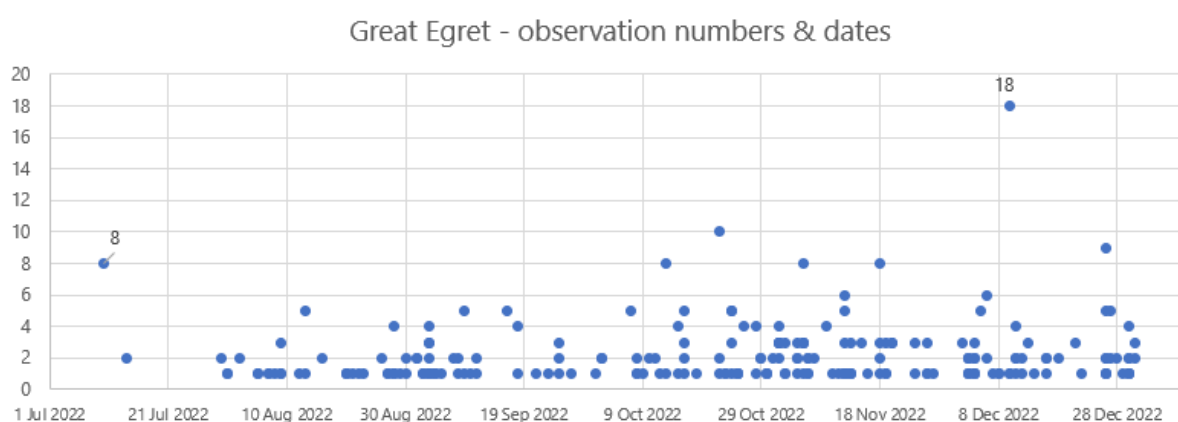
Map showing sighting locations of the Purple Heron between Jul and Dec 2022

A total of 576 sighting records were reported between Jul and Dec 2022. A high count of eight birds was recorded from the colony at Bishan-Ang Mo Kio Park.

Between 4-5 juveniles have been recorded from the Bishan-Ang Mo Kio Park colony between 8 Jul 2022 and 28 Aug 2022. Other sightings of juveniles include a single bird at Gardens by the Bay on 28 Sep 2022, and 27 Nov 2022, between 1-2 juveniles at Marina East Drive between 30 Aug 2022 and 18 Nov 2022, a single bird at the Sensory Trail Pond on Pulau Ubin on 27 Nov 2022, another individual juvenile at Singapore Botanic Gardens on 27 Nov 2022, and one juvenile at Sungei Buloh Wetland Reserve on 27 Aug 2022.

## Great Egret

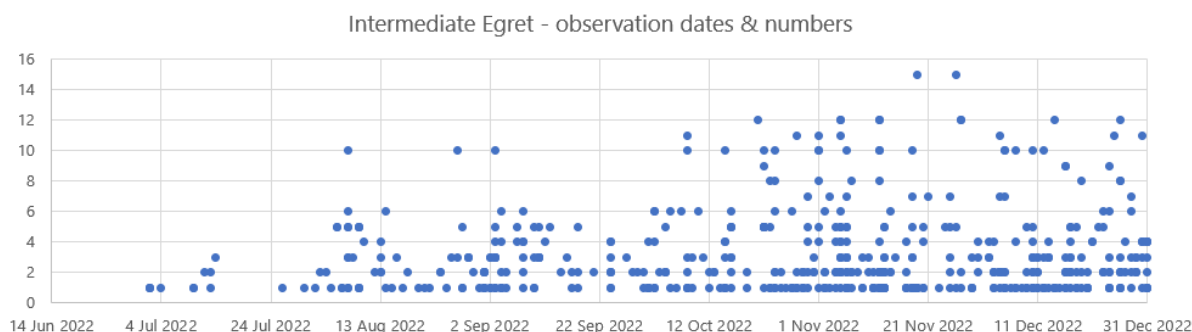
*Ardea alba*



Eight over-summering birds were counted on 10 Jul 2022 at Sungei Buloh Wetland Reserve; small numbers continued to be seen until 31 Dec 2022. A high count of 18 birds was reported from Buloh on 10 Dec 2022.

## Intermediate Egret

*Ardea intermedia*



Individuals continue to be seen in Jul 2022 and early Aug 2022 at various locations such as Ulu Pandan Park Connector, the fields along Marina East Drive, Jurong Lake Gardens, Holland Plain, Seletar End/Piccadilly and Sungei Buloh Wetland Reserve. Their numbers are subsequently augmented by migrating birds.

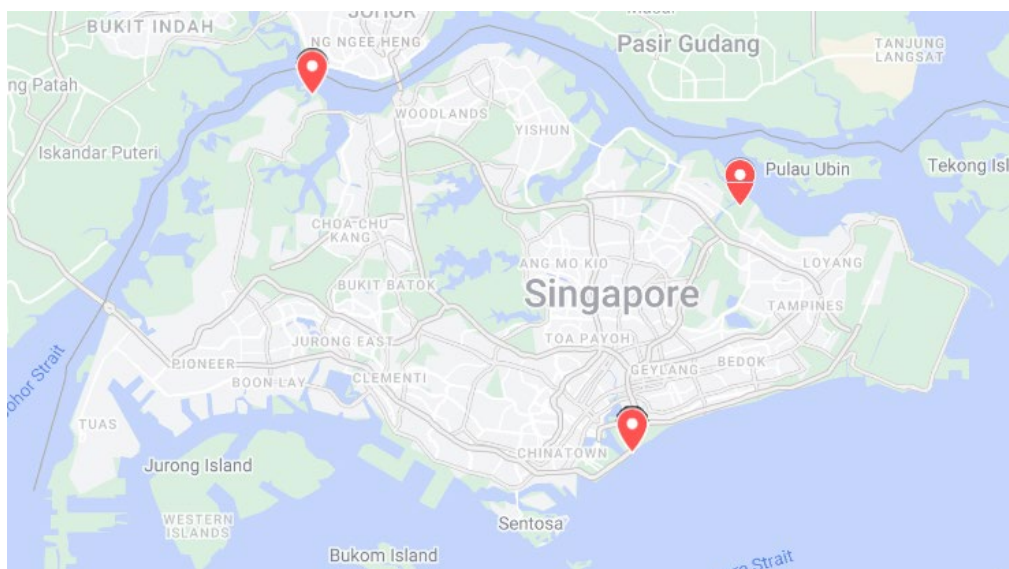




2022, 24 Dec 2022 & 30 Dec 2022), and Pasir Panjang Terminal Avenue 8 (30 Dec 2022). Further examination of the records at Marina Barrage suggests that there are more than two birds that frequent the location, as there was a single instance when a black morph was spotted on 4 Sep 2022; other records were of two white morph birds.

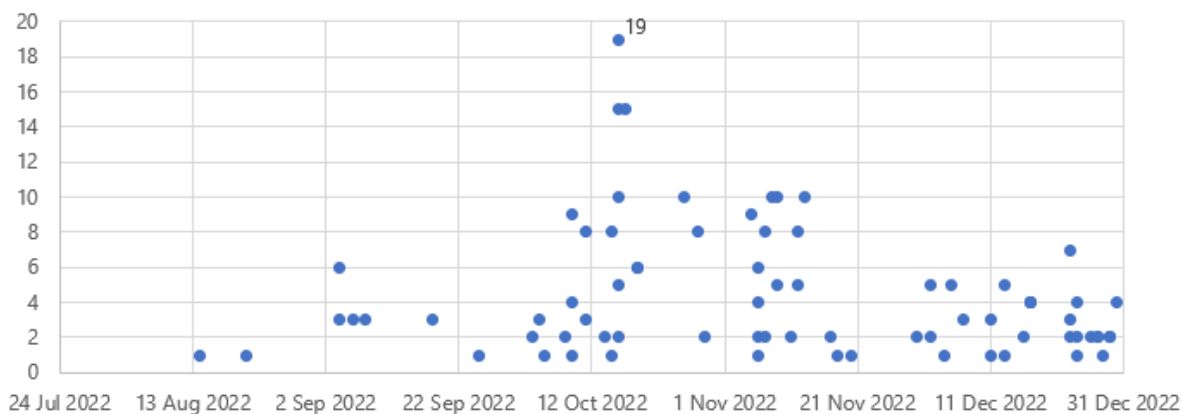
## Cattle Egret

*Bubulcus ibis*



Map showing sighting locations of the Cattle Egret between Jul and Dec 2022

### Cattle Egret - observation numbers & dates



During the second half of 2022, records came only from three locations – Lorong Halus Wetlands, Sungei Buloh Wetland Reserves and Marina East Drive. The high count of 19 birds was from Marina East on 16 Oct 2022.

## Chinese Pond-Heron

*Ardeola bacchus*

An individual was seen at Sungei Buloh Wetland Reserve on 2 Jul 2022 and two birds were spotted at Kranji Marsh on 3 Jul 2022. An individual was seen moulting out of its breeding plumage from the Central Catchment on 13 Oct 2022.



## **Black-crowned Night-Heron**

*Nycticorax nycticorax*

Up to two juveniles were spotted at Singapore Botanic Gardens between 9 Jul 2022 and 18 Dec 2022, while five juveniles and three subadults were spotted at Sungei Buloh on 2 Oct 2022; between three to five immature birds were seen at the wetland reserve between 18 Aug 2022 and 7 Dec 2022. Other locations where juvenile birds were seen include Berlayer Creek Boardwalk on 25 Oct 2022, and Satay-by-the-Bay and Marina East on 25 Sep 2022, 23 Oct 2022 and 2 Dec 2022.

## **Malayan Night-Heron**

*Gorsachius melanolophus*

An individual was flushed within the Central Catchment on 22 Oct 2022, while a juvenile was spotted and photographed by many at Jurong Lake Gardens on 6 Nov 2022.

## **Black-headed Ibis**

*Threskiornis melanocephalus*

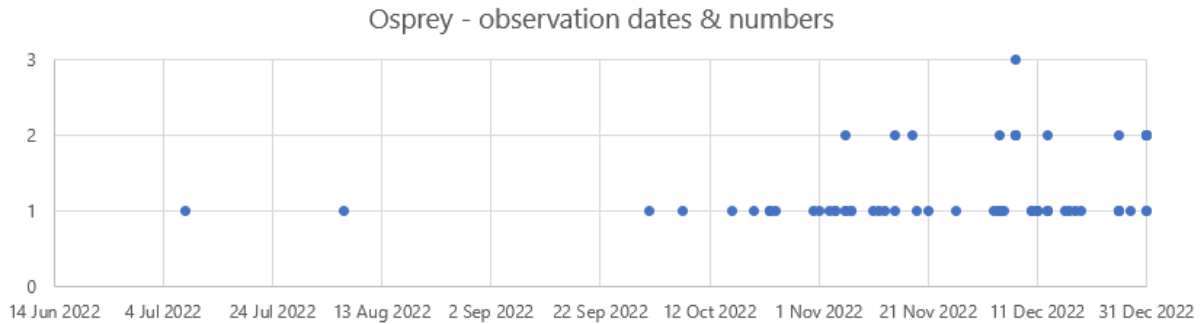


Black-headed Ibis photographed on 1 Nov 2022 at Sungei Buloh by Tan Gim Cheong.

An individual was first reported on 1 Nov 2022 at Sungei Buloh Wetland Reserves. The bird continued to be seen on subsequent days until 5 Nov 2022. This sighting constitutes the first record for the species in Singapore.

## Osprey

*Pandion haliaetus*



A single bird was seen at Pulau Ubin on 8 Jul 2022, while another was seen at the island on 6 Aug 2022. Other sighting records started in earnest only from October onwards, with an individual spotted over Rifle Range Link on 1 Oct 2022 and another over Tuas West Drive on 7 Oct 2022, followed by more individuals from 16 Oct 2022 onwards. A high count of three birds were reported from Johor Straits on 7 Dec 2022.

## Black-winged Kite

*Elanus caeruleus*

A pair was seen mating on 4 Nov 2022 at the area around Tuas South Ave 16. A brood of three young was raised by a pair at Gardens-by-the-Bay.

The birds were at Gardens-by-the-Bay and its vicinity since 11 Jul 2022, with sightings of a pair together from 29 Aug 2022 onwards. A pair was seen mating at Marina East Drive on 16 Oct 2022. By 7 Nov 2022, there were four individuals counted, presumably the chicks, and by 20 Nov 2022, there were five seen – two being the adults, and three notably the growing young.

Other pairs include one seen at Sungei Tengah on 7 Nov 2022, a pair at Hampstead Wetland Park on 9 Aug 2022, two at Hort Park on 13 Nov 2022, two at Kranji Marsh on 13 Sep 2022 and 24 Oct 2022, a pair at Halus Wetland on 29 Sep 2022, a pair at Neo Tiew Harvest Lane on 31 Oct 2022, 12 Nov 2022, 4 Dec 2022 and 21 Dec 2022, two at Sungei Buloh Wetland Reserve on 6 Sep 2022, and between two and three birds at Tuas South between 23 Oct 2022 and 25 Dec 2022.

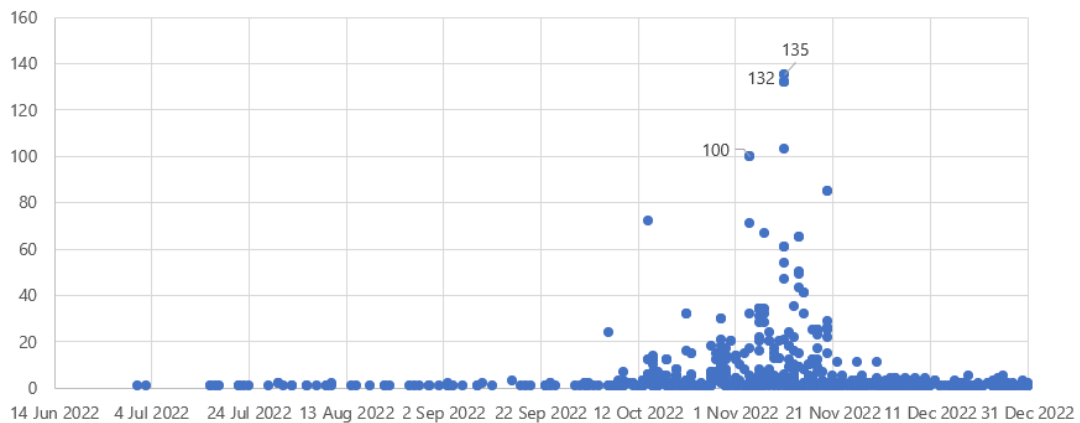
## Oriental Honey-buzzard

*Pernis ptilorhynchus*



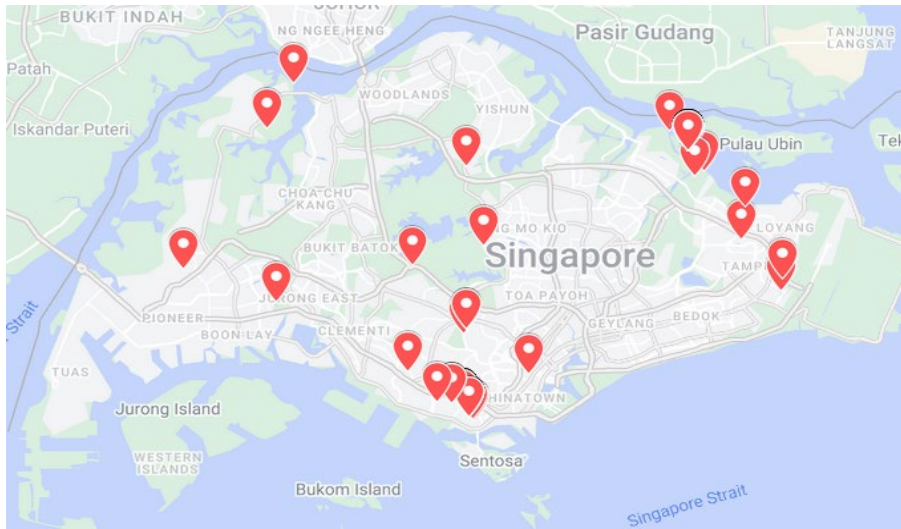
Map showing sighting locations of the Oriental Honey Buzzard between Jul and Dec 2022

### Oriental Honey-Buzzard - Observation Dates & Numbers



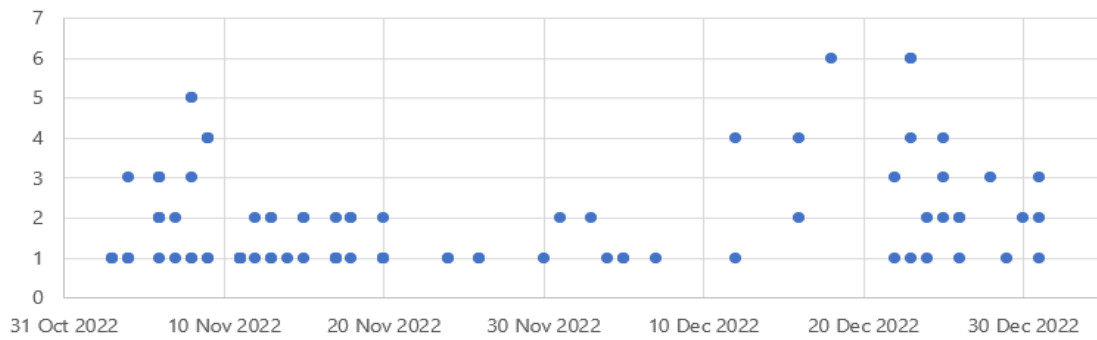
An individual was spotted on 1 Jul 2022 from Jelutong Tower within the Central Catchment. Individuals continue to be seen between July and August; however, numbers began to pick up from October onwards. On 14 Oct 2022, 72 were counted over Nanyang Technological University, while on 4 Nov 2022, 71 were seen over Mount Faber Park, while 67 were seen from Tuas South Avenue 3. High counts of between 100 and 135 birds were spotted from Henderson Waves on 4 & 11 Nov 2022; these comprised individuals and small kettles of birds trickling over the Southern Ridges over a period of more than two hours. A high count of 85 was also noted from the cruise centre at the Harbourfront on 20 Nov 2022.

**Jerdon's Baza**  
*Aviceda jerdoni*



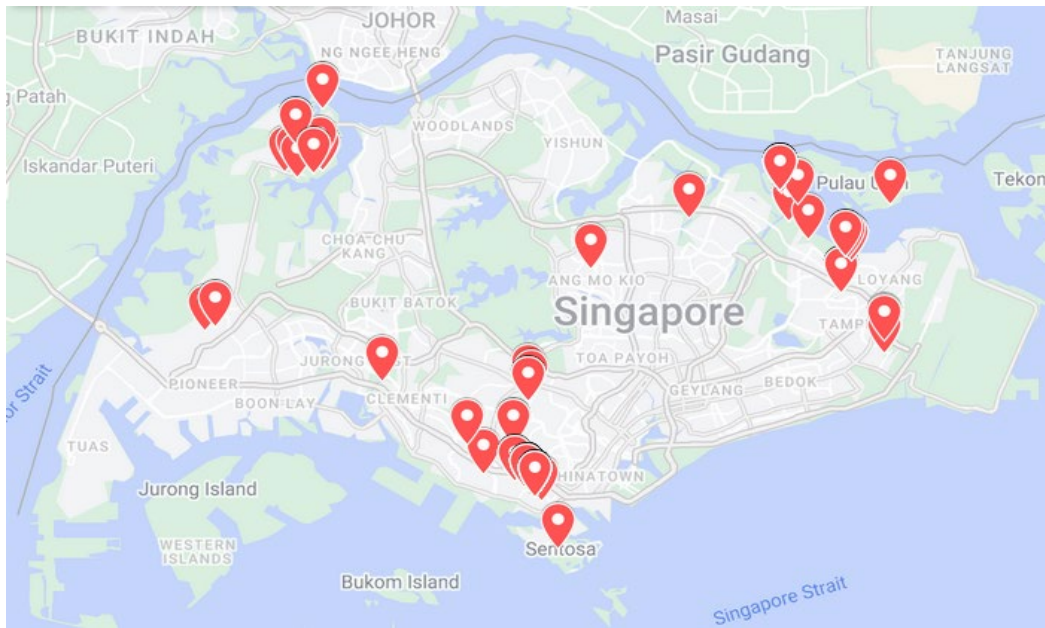
Map showing sighting locations of the Jerdon's Baza between Jul and Dec 2022

Jerdon's Baza - observation dates & numbers



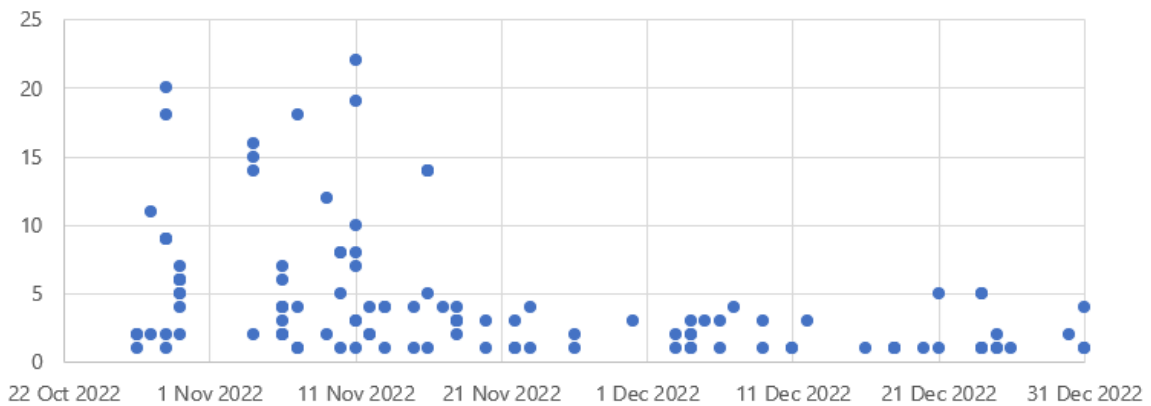
The first records came from three individuals spotted over Henderson Wave during the course of the day on 3 Nov 2022. High counts of five birds from Henderson Waves on 8 Nov 2022 and six from Coney Island on 18 and 23 Dec 2022 were observed.

## Black Baza *Aviceda leuphotes*



*Map showing sighting locations of the Black Baza between Jul and Dec 2022*

### Black Baza - observation dates & numbers

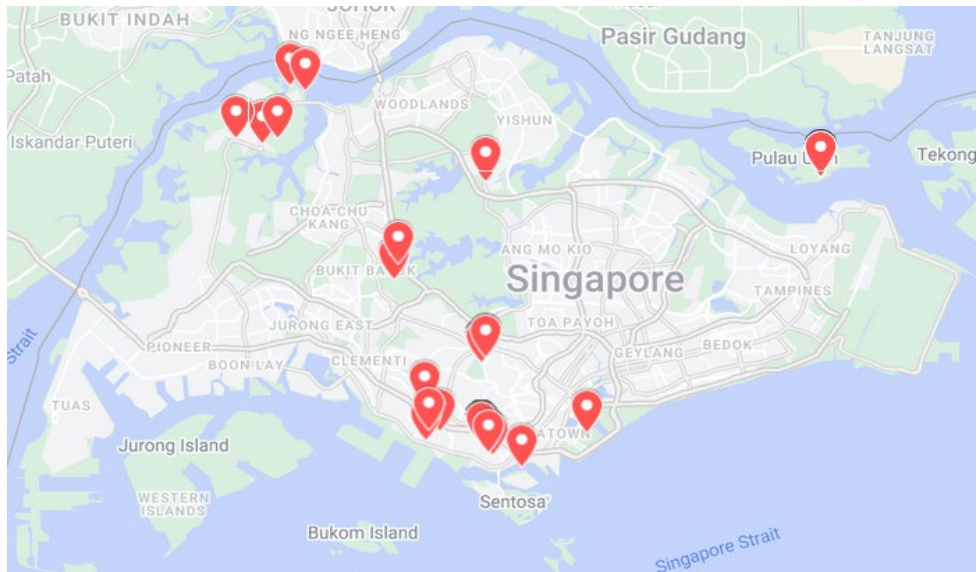


The first records for this season came from two birds seen at Mount Faber Park, an individual spotted at Canterbury Road and two individuals at Neo Tiew Road on 27 Oct 2022. High counts were recorded from Nanyang Technological University (20) on 29 Oct 2022 and Mount Faber Park (18) on the same day, Henderson Waves (15) and Mount Faber Park (16) on 4 Nov 2022, Mount Faber Park (18) on 7 Nov 2022, and Henderson Waves (22) on 11 Nov 2022.



## Crested Serpent-Eagle

*Spilornis cheela*



Map showing sighting locations of the Crested Serpent Eagle between Jul and Dec 2022

Individuals were spotted in July 2022, one at Pulau Ubin on 4 Jul 2022, and another with a missing right eye at Springleaf Nature Park on 13 Jul 2022.

Records from the parks along the Southern Ridges, mainly Kent Ridge Park, Hort Park, Henderson Waves and Mount Faber Park, started on 15 Oct 2022; with the last record on 30 Nov 2022. Sightings of individuals on Pulau Ubin were recorded between 4 Jul 2022 and 23 Nov 2022, while records from Singapore Botanic Gardens spanned between 16 Aug 2022 and 19 Dec 2022. Two birds were spotted at Singapore Botanic Garden on 28 Nov 2022 and 10 Dec 2022 calling to one another.

Apart from sightings along the Southern Ridges Pulau Ubin, and Singapore Botanic Gardens, individuals were also seen at Bukit Timah Nature Reserve (6 Nov 2022), Dairy Farm Nature Park (31 Dec 2022), Gardens by the Bay (24 Oct 2022), Keppel Harbour (11 Nov 2022), Lim Chu Kang Road (3 Dec 2022), Neo Tiew (4 & 22 Dec 2022) and Sungei Buloh Wetland Reserve (18 Nov 2022).



## Short-toed Snake-Eagle

*Circaetus gallicus*



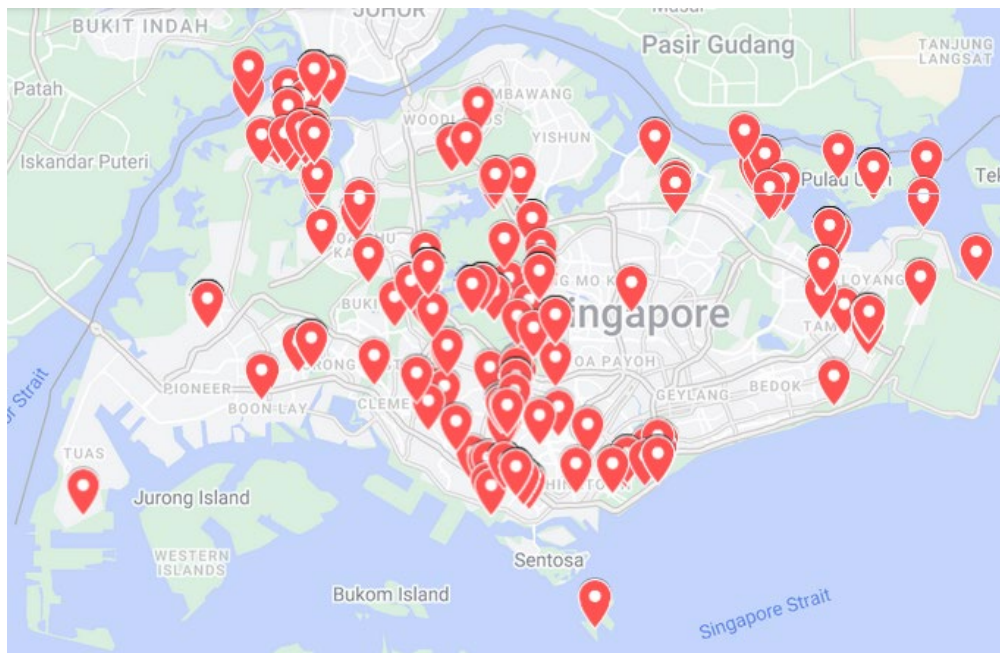
A Short-toed Snake-Eagle was photographed at Gardens-by-the-Bay on 11 Nov 2022 by Danny Khoo.

A single bird was seen from Henderson Waves on 2 Nov 2022, while a second individual was spotted off Telok Blangah Hill Park on 7 Nov 2022.

Other records: an individual was seen off Gardens-by-the-Bay on 11 Nov 2022.

## Changeable Hawk-Eagle

*Nisaetus cirrhatus*

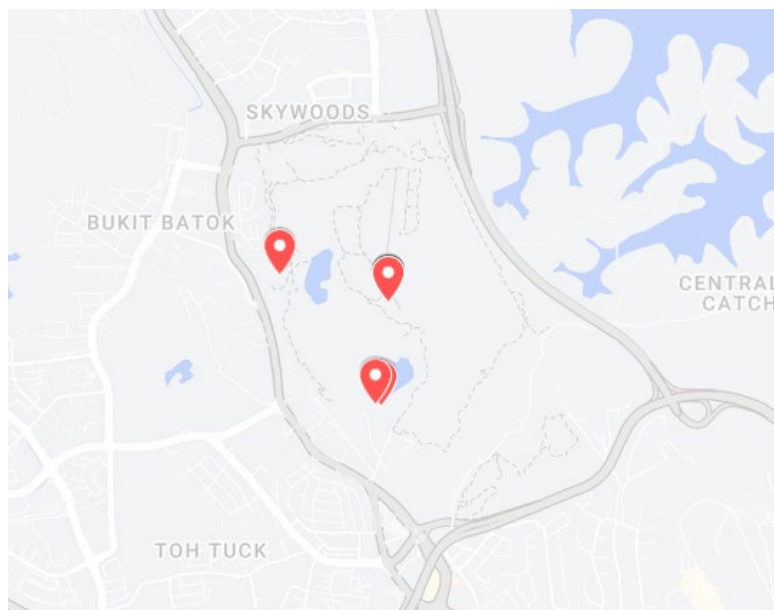


Map showing sighting locations of the Changeable Hawk Eagle between Jul and Dec 2022

A total of 648 sighting records were reported between Jul and Dec 2022. An individual was recorded flying above St John's Island on 4 Dec 2022. Post breeding was observed. A pale juvenile was spotted at Telok Blangah Hill Park with a pale adult on 20 Nov 2022, while a young pale morph was seen at Neo Tiew Lane 1 on 20 Dec 2022. Another pale juvenile was spotted at Loewen Road on 31 Dec 2022.

## Rufous-bellied Eagle

*Lophotriorchis kienerii*



Map showing sighting locations of the Rufous-bellied Eagle around Bukit Timah Nature Reserve between Jul and Dec 2022

Records of a single bird from around Bukit Timah Nature Reserve and Singapore Quarry were submitted between 27 Jul 2022 and 9 Nov 2022. Three records were of a sub-adult – on 27 Jul 2022, 30 Jul 2022 and 8 Oct 2022. An adult with its distinct helmet-like head markings, was spotted on 9 Nov 2022. Other records of the raptor include one flying over Jelutong Tower inside the Central Catchment on 7 Aug 2022, an individual seen over Henderson Waves on 23 Oct 2022, an individual flying over Nanyang Technological University on 27 Oct 2022, one over SkyVille@Dawson on 23 Oct 2022, and two sightings from Telok Blangah Hill Park on 9 and 23 Oct 2022.

## **Greater Spotted Eagle**

*Clanga clanga*

The earliest record for the season was of an individual spotted from Mount Faber Park on 27 Oct 2022. Two birds were seen from Nanyang Technological University at different timings on the next day (28 Oct 2022), while an individual was spotted flying above Lorong Halus Wetland on 29 Oct 2022 before flying southwards. Other records include an individual spotted from SkyVille@Dawson on 30 Oct 2022, two birds seen on 8 Nov 2022 from Mountbatten and a single bird from Dairy Farm Nature Park on 22 Nov 2022. Records from the Southern Ridges commenced on 27 Oct 2022 and the last entry for the hills was on 18 Nov 2022; there were a total of 20 sighting records, with multiple records for the same day.

## **Booted Eagle**

*Hieraaetus pennatus*

A pale morph over Singapore Botanic Gardens and a dark morph over Nanyang Technological University on 27 Oct 2022 constitute the first records for the season. An individual seen over Henderson Waves on 4 Nov 2022, as well as another record on the same day seen at Mount Faber Park, constitute the other record; it is unclear if the two records constitute the same bird, or are two different individuals.

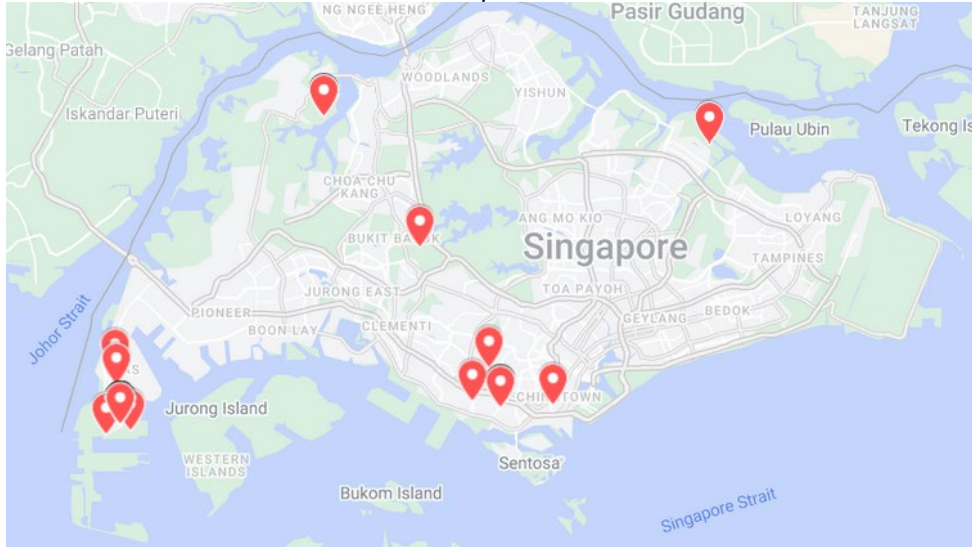
## **Grey-faced Buzzard**

*Butastur indicus*

The first record for this season came from three birds gliding together over a sustained period of time above Bukit Timah Nature Reserve on 22 Oct 2022. An individual, noted as a juvenile, was sighted from SkyVille@Dawson on 23 Oct 2022, while a bird was seen from Neo Tiew Road on 27 Oct 2022. One individual was seen at Nanyang Technological University on 28 Oct 2022, while two birds were seen from Henderson Waves on 30 Oct 2022. There appeared to be a hiatus as there were no records until 7 Nov 2022, when an individual was seen migrating with Oriental Honey Buzzards over Tuas South Avenue 3, while two single birds were spotted over Henderson Waves and Mount Faber, respectively, on the same day. The final record was of an individual seen over Henderson Waves on 20 Nov 2022.

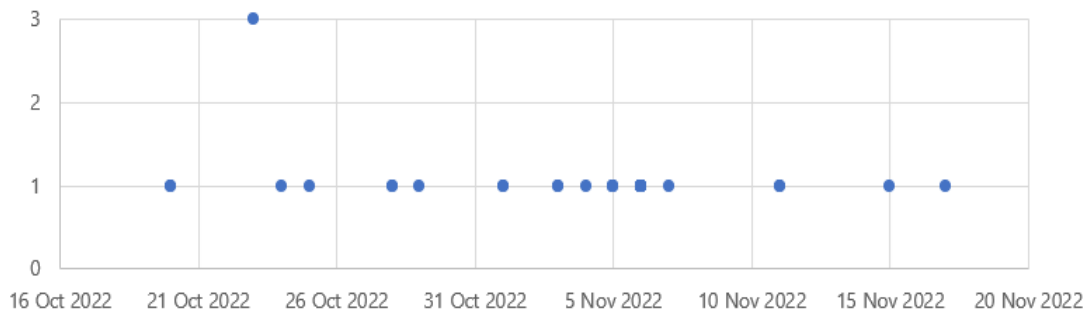
## Eastern Marsh-Harrier

*Circus spilonotus*



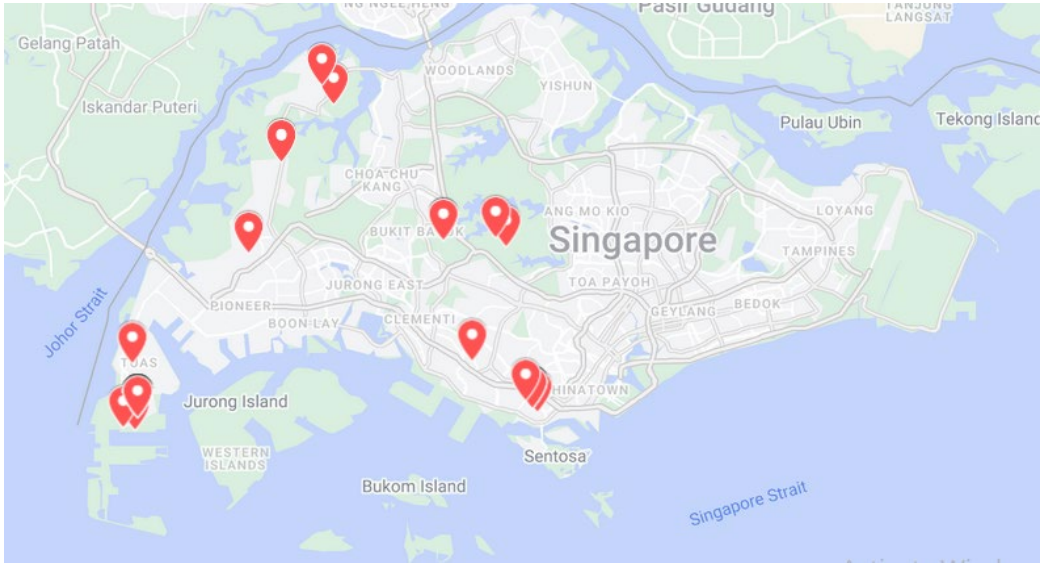
Map showing sighting locations of the Eastern Marsh Harrier between Jul and Dec 2022

### Eastern Marsh Harrier - observation dates & numbers

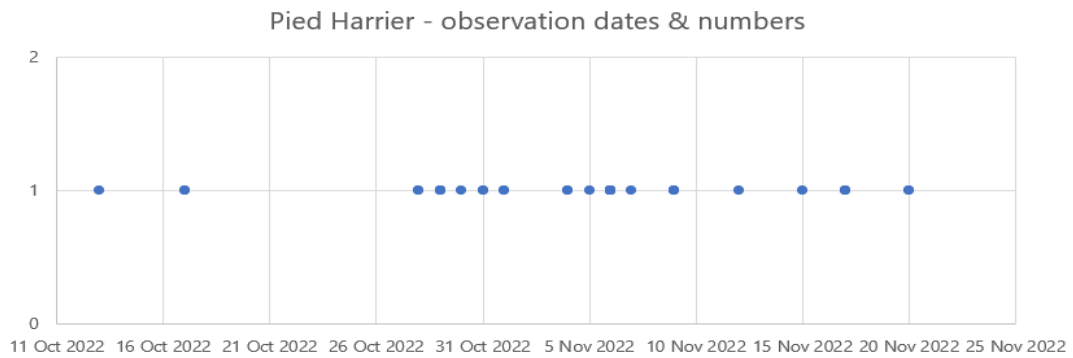


The first record for the season came from an individual spotted on 20 Oct 2022 over Tuas South Avenue 16 and vicinity. Most sighting records came from Tuas South, with records of birds in passage over the Southern Ridges and Hort Park, a record each over SkyVille@Dawson and Pinnacle@Duxton, Kranji Marsh and Punggol.

## Pied Harrier *Circus melanoleucos*



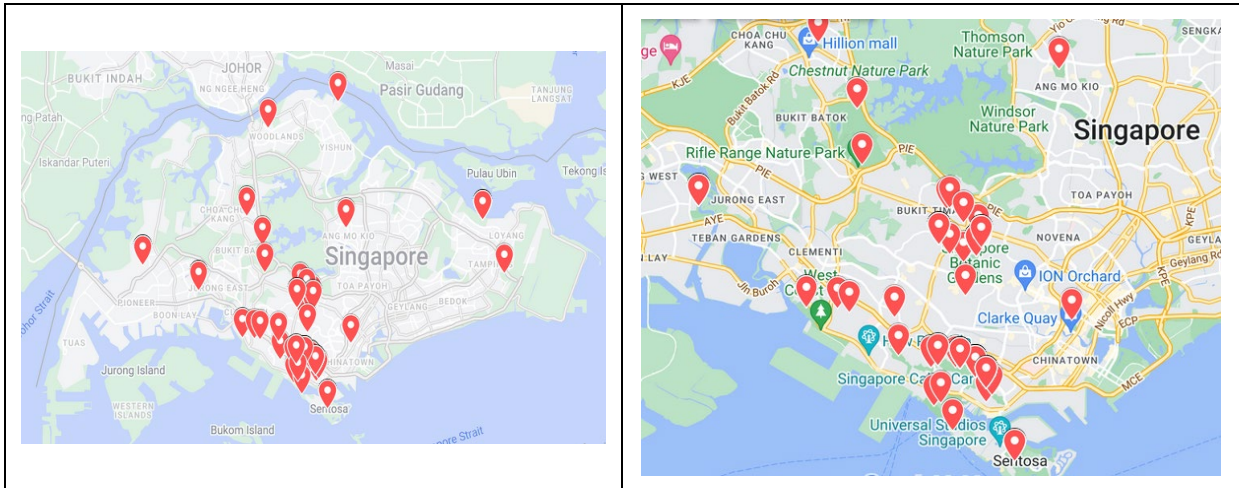
*Map showing sighting locations of the Pied Harrier between Jul and Dec 2022*



The season's first record came from a juvenile spotted over Jelutong Tower within the Central Catchment on 13 Oct 2022. The bulk of sighting records came from an immature individual wintering over Tuas South; with records from 31 Oct 2022 to 15 Nov 2022. The rest came from birds in passage over the Southern Ridges between 29 Oct 2022 and 20 Nov 2022. Records of a single bird over Lim Chu Kang-Neo Tiew were submitted on 30 Oct 2022, 1 & 12 Nov 2022.



**Crested Goshawk**  
*Accipiter trivirgatus*



*Maps showing sighting locations of Crested Goshawk between Jul and Dec 2022; with a detailed map of locations in central and south Singapore on the right.*

A total of 115 sighting records were reported between Jul and Dec 2022. Based on eBird records, there appears to be 23 active Crested Goshawk sites so far:

1. Admiralty Park: single bird sighted on 1 Oct 2022;
2. Ang Mo Kio Town Garden West: single bird sighted on 23 Nov 2022 and 13 Dec 2022;
3. Bukit Panjang Park: single bird spotted between 29 Jul 2022 and 4 Oct 2022;
4. Bukit Timah: single bird spotted between 28 Jul 2022 and 31 Dec 2022;
5. Changi Business Park canal: single bird spotted on 2 Nov 2022;
6. Dairy Farm Nature Park: single bird spotted on 3 Aug 2022 and 4 Sep 2022;
7. Dempsey Road & vicinity: single bird spotted on 26 Dec 2022;
8. Fort Canning: single bird spotted on 21 Jul 2022;
9. Hillcrest-Watten-Shelford: single bird spotted between 30 Sep 2022 and 9 Nov 2022;
10. Hort Park: single bird spotted between 12 Jul 2022 and 13 Nov 2022;
11. Jurong Lake Gardens: single bird spotted between 25 Jul 2022 and 6 Nov 2022;
12. Kent Ridge Park: single bird spotted on 27 Aug 2022;
13. Labrador Nature Reserve: single bird spotted between 16 Jul 2022 and 10 Dec 2022;
14. Mount Faber Park: between one and two birds spotted between 9 Aug 2022 and 21 Nov 2022;
15. NTU: between one and two birds spotted between 16 Jul 2022 and 28 Oct 2022;
16. NUS: single bird spotted on 6 Dec 2022;
17. Pasir Ris Park: single bird spotted between 3 Jul 2022 and 14 Dec 2022; known site for many years;
18. Rifle Range Nature Park: single bird spotted on 26 Nov 2022;
19. Sembawang Park: single bird spotted on 11 Dec 2022;
20. Sentosa: between one and two birds spotted between 20 Aug 2022 and 26 Nov 2022;
21. Singapore Botanic Gardens: between one and two birds spotted between 8 Aug 2022 and 1 Dec 2022;
22. Telok Blangah Hill Park: between one and two birds spotted between 21 Aug 2022 and 27 Nov 2022;
23. West Coast Park: between one and two birds spotted between 5 Aug 2022 and 2 Dec 2022.



A pair was reported to be mating at Nanyang Technological University on 8 Oct 2022, while another pair was engaged in nest building activities at West Coast Park on 18 Oct 2022.

## Shikra

*Accipiter badius*

A single bird was spotted over Mount Faber Park on 27 Oct 2022 and its identification was confirmed.

## Chinese Sparrowhawk

*Accipiter soloensis*

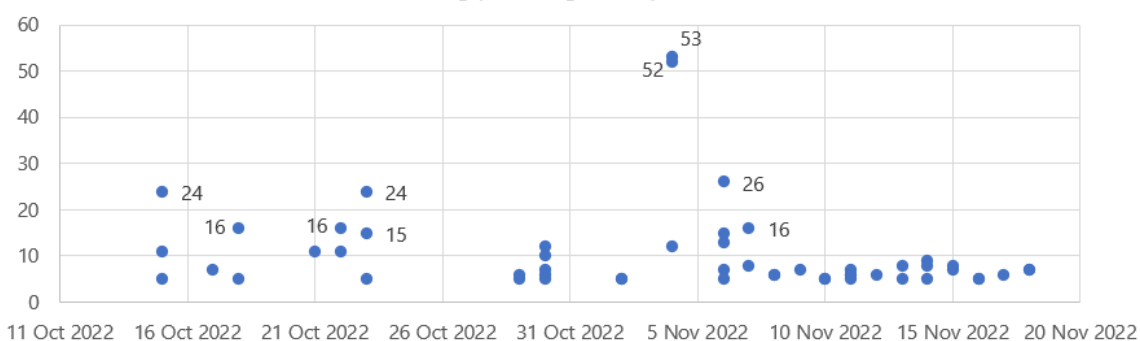
The first records for the season were from single birds spotted on 1 Oct 2022 from within the Central Catchment, as well as two seen from Kranji Marsh. High numbers were seen on 30 Oct 2022 from Mount Faber Park with 11 birds, and from Henderson Waves with 14 individuals, and on 4 Nov 2022 with a total of 26 birds spotted between 9:49am and 1:07pm. The peak on 4 Nov 2022 occurred between 10:44am with 12 birds, and 12:46pm with two birds in passage.

The female from Ang Mo Kio Town Garden West was first spotted on 5 Nov 2022 and was seen over several occasions; the last record was on 22 Dec 2022. It remains to be seen if the bird continues to overwinter at this location in 2023. Two birds, one male and a female, were spotted on Coney Island between 18 and 31 Dec 2022.

## Japanese Sparrowhawk

*Accipiter gularis*

Japanese Sparrowhawk - observations from Southern Ridges during peak migration period



The first records for this season came from an individual spotted from within the Central Catchment, and another bird seen over Chek Jawa, Pulau Ubin on 16 Sep 2022. High numbers were seen from Mount Faber Park on 15 Oct 2022 with 24 birds, Henderson Waves on 23 Oct 2022 with 24 individuals, and from Henderson Waves on 4 Nov 2022 with 53 birds, and 26 birds on 6 Nov 2022.

## Besra

*Accipiter virgatus*

The first record for the season came from an individual spotted from Telok Blangah Hill Park on 17 Oct 2022. Individuals were subsequently reported from the Southern Ridges, with one bird from Henderson Waves on 4 Nov 2022; an individual was spotted on 9 Nov 2022, from Mount Faber, while on 16 Nov 2022, a juvenile was seen from the same location.

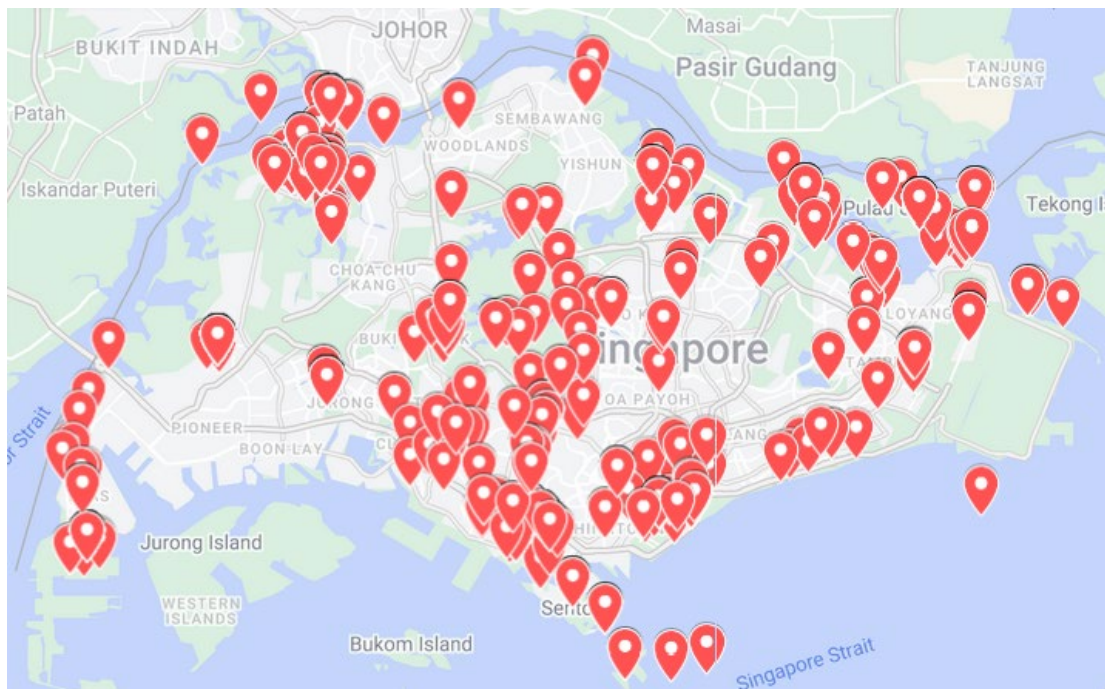
## Eurasian Sparrowhawk

*Accipiter nisus*

A bird was found crashed and dead at the northern façade of 30 Pasir Panjang Road on 10 Nov 2022 and retrieved by the NUS Avian Evolution Lab. Based on morphometrics taken by Tan Yen Yi; viz. wing chord: 250mm; tail length: 198mm; as well as key characteristics such as a thin white supercilium, brown-tinged upperparts lacking slaty-grey, brown-streaked nape, irregular V-shaped brown chest bars and "six-fingers" in primaries; suggested that the retrieved bird was a juvenile female.

## Brahminy Kite

*Haliastur indus*

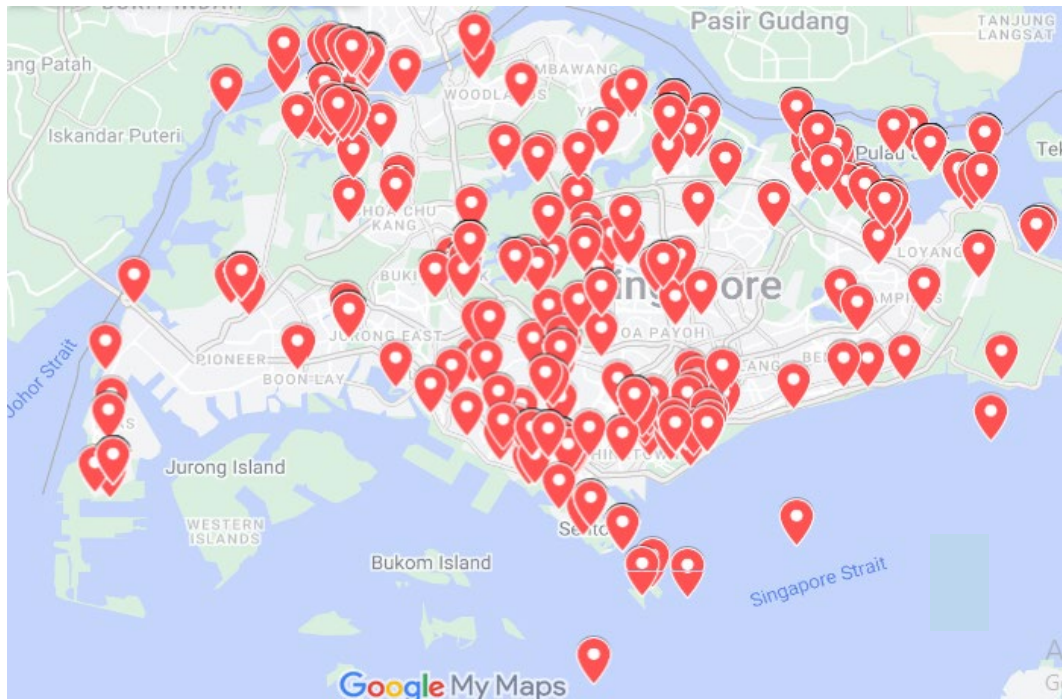


Map showing sighting locations of Brahminy Kite between Jul and Dec 2022

A total of 1,101 sighting records were reported between Jul and Dec 2022.

## White-bellied Sea-Eagle

*Haliaeetus leucogaster*

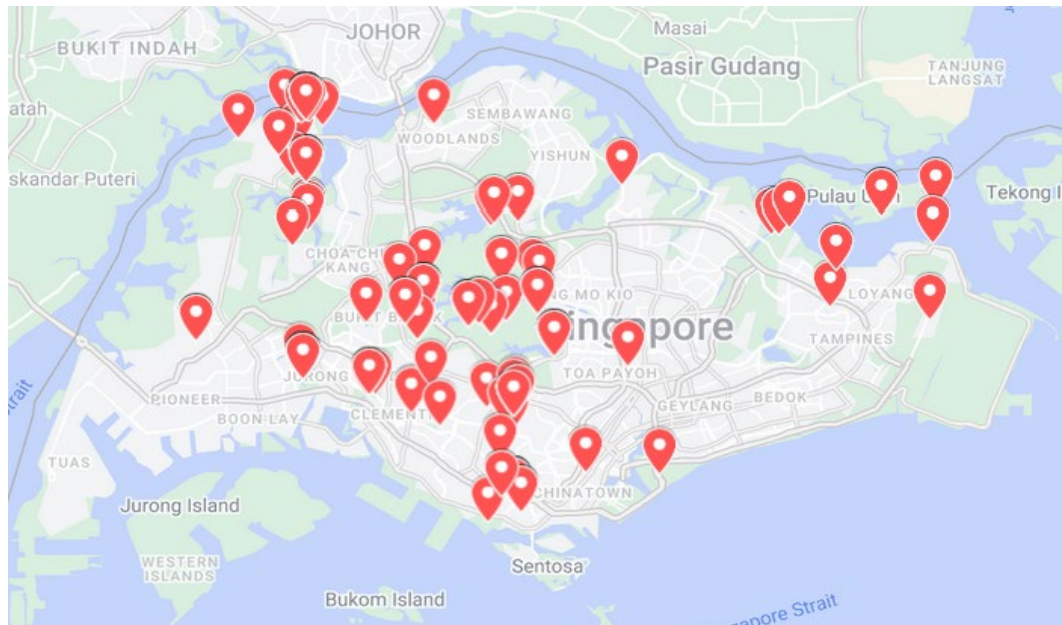


Map showing sighting locations of White-bellied Sea-Eagle between Jul and Dec 2022

A total of 1,223 sighting records were reported between Jul and Dec 2022.

## Grey-headed Fish-Eagle

*Haliaeetus ichthyaeus*



Map showing sighting locations of Grey-headed Fish-Eagle between Jan and Jun 2022

A total of 260 sighting records were reported between Jul and Dec 2022.

## Harris's Hawk

*Parabuteo unicinctus*

An individual was seen within the vicinity of Mountbatten Road from 3 Nov 2022 to 27 Dec 2022. A likely escapee, this species is not in the NSS checklist.

## Common Buzzard

*Buteo buteo*

An individual was seen from Mount Faber Park on 9 Nov 2022.

## Barn Owl

*Tyto alba*

An individual was seen at the Marina Bay Floating Platform on 12 Dec 2022.

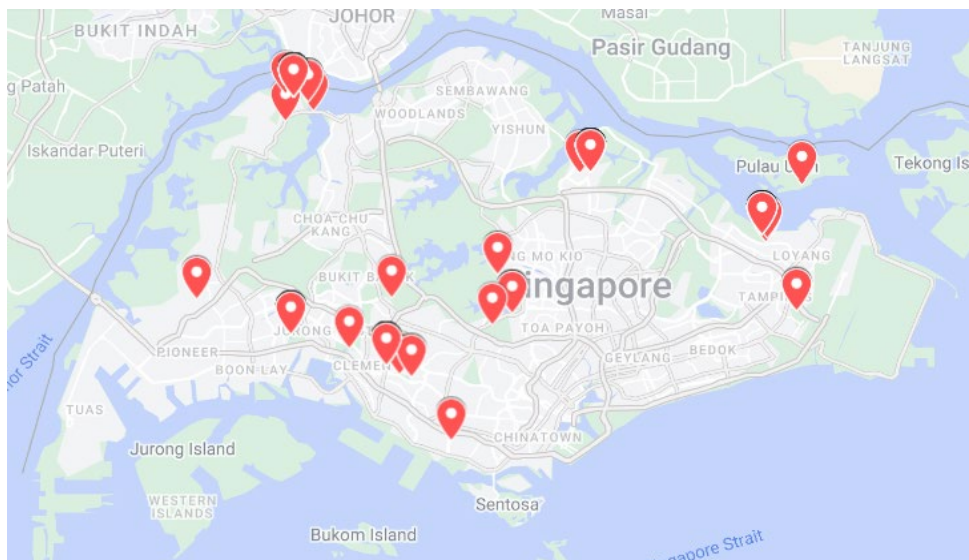
## Sunda Scops-Owl

*Otus lempiji*

Birds were commonly encountered at the Central Catchment Reserves and adjacent buffer parks, as well as suburban locations such as Bukit Brown, Nanyang Technological University and National University of Singapore grounds and Singapore Botanic Gardens. An adult and juvenile were seen between 2 and 24 Sep 2022 at Pasir Ris Park.

## Buffy Fish-Owl

*Ketupa ketupu*



Map showing sighting locations of Buffy Fish Owl between Jul and Dec 2022



Birds were spotted at Bukit Brown Cemetery (1 bird), the canal along Changi Business Park (1 bird), Dover Forest-Ulu Pandan (up to 3 birds), Hampstead Wetland Park (up to 3 birds), Jurong Lake Gardens (up to 2 birds), MacRitchie Reservoir Park (up to 2 birds), Nanyang Technological University (1 bird), Pasir Ris Park (1 bird), Pulau Ubin (1 bird), Seletar Camp (1 bird), Southern Ridges (1 bird), Sungei Buloh Wetland Reserve (up to 3 birds), Windsor Nature Park (1 bird).

Breeding has been recorded. Two adults and a juvenile were observed in a nest at Ulu Pandan between 10 and 27 Sep 2022; while adults and a chick were spotted at Sungei Buloh Wetland Reserve on 29 Sep 2022. The young bird was seen on 9 Oct 2022.

### **Brown Fish-Owl**

*Ketupa zeylonensis*

A single bird was seen perched in a high tree at Hindhede Nature Park on 8 Jul 2022.

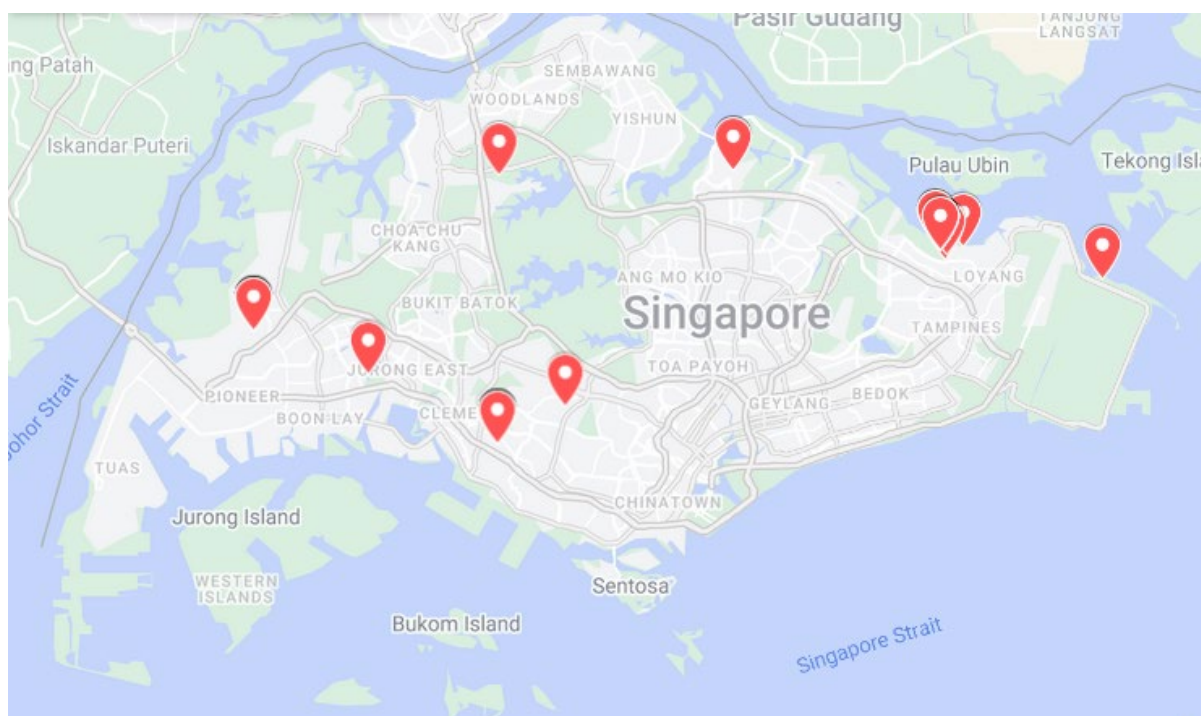
### **Barred Eagle-Owl**

*Ketupa sumatranus*

An individual was seen in Thomson Nature Park on 9 Jul 2022 feeding on a Plain-tain Squirrel and mobbed by Greater Racquet-tailed Drongo, Black-naped Oriole and another Plain-tain Squirrel. An individual was heard from along Old Thomson Road on 30 Jul 2022.

### **Spotted Wood-Owl**

*Strix seloputo*



*Map showing sighting locations of Spotted Wood Owl between Jul and Dec 2022*

Birds were spotted at Bukit Timah (1 bird), Central Catchment (1 bird), Changi Bay Point (up to 2 birds), Dover Road (former Transview Golf Course) (2 birds), Hampstead Wetland Park (up to

2 birds), Jurong Lake Gardens (1 bird), Nanyang Technological University (up to 3 birds) and Pasir Ris Park (up to 3 birds). Breeding was recorded from Pasir Ris Park. Two adults and a young were spotted on 31 Dec 2022 in the park grounds.

### **Brown Hawk-Owl**

*Ninox scutulata*

Birds were heard or seen within and around the Central Catchment. Breeding recorded. Two adults and a juvenile were spotted in Hindhede Nature Park between 7 and 31 Jul 2022.

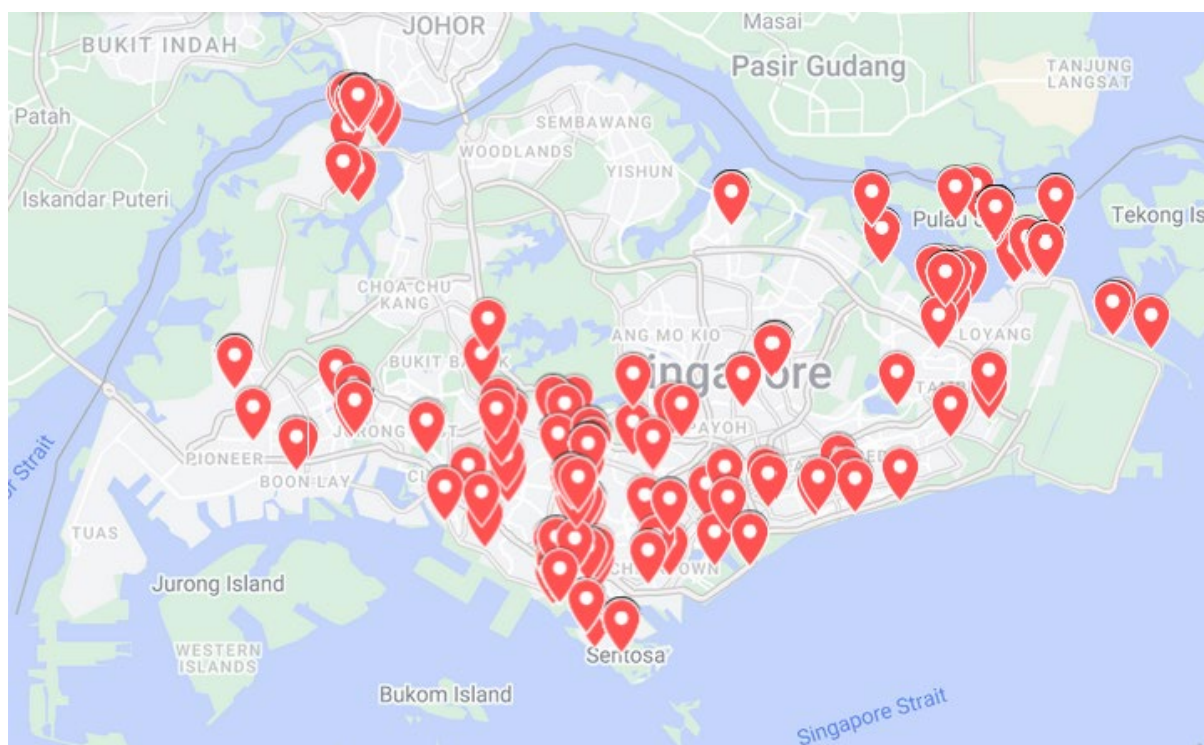
### **Black Hornbill**

*Anthracoceros malayanus*

The individual on Pulau Ubin was reported between 3 Jul 2022 and 15 Oct 2022.

### **Oriental Pied-Hornbill**

*Anthracoceros albirostris*



Map showing sighting locations of Oriental Pied Hornbill between Jul and Dec 2022

Twenty birds were spotted at Pulau Ubin on 6 Aug 2022, while 18 were seen on the island on 9 Sep 2022. Other locations with high numbers include Bukit Timah with 14 birds (5 Jul 2022), Changi Village with eight (9 Sep 2022), Pasir Ris Park with eight (2 Jul 2022, 11 Sep 2022 and 2 Nov 2022), and Sungei Buloh Wetland Reserve with another eight (7 Oct 2022).



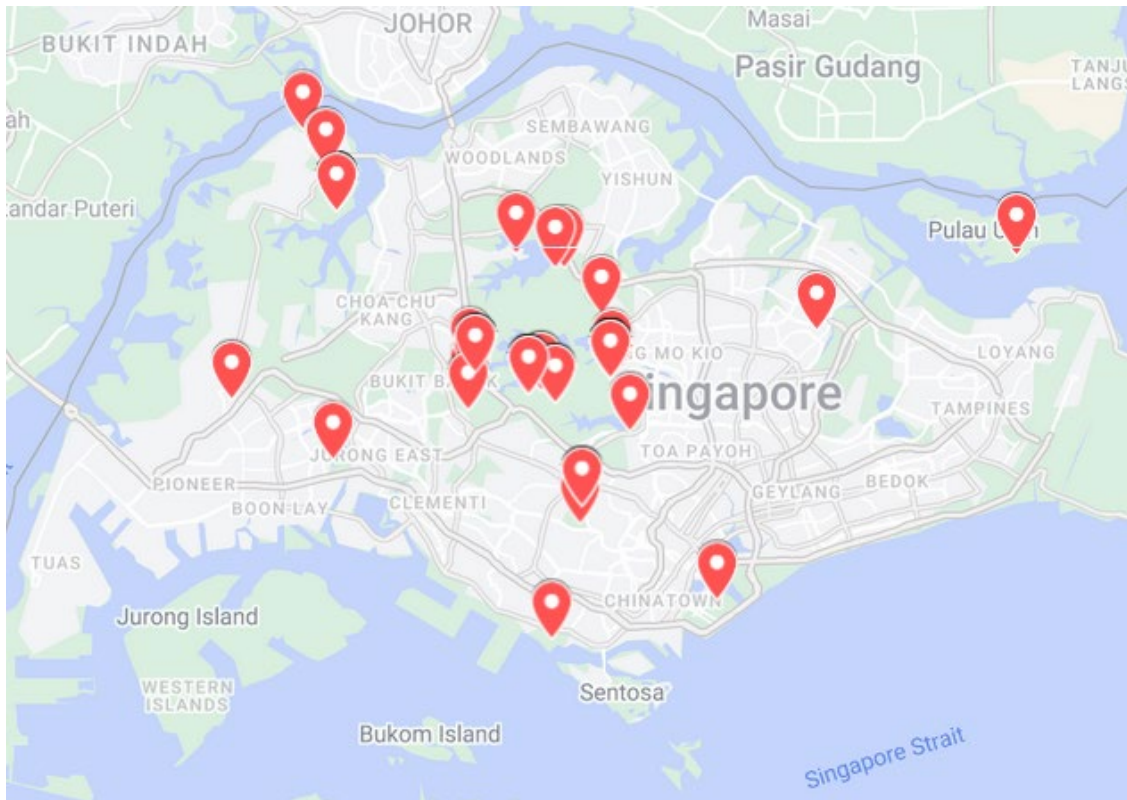
## Common Kingfisher

*Alcedo atthis*

An individual was seen at Kranji Marsh on 6 Jul 2022; this was likely an over-summering bird. The first of the season record came from an individual spotted on 9 Aug 2022 at Sungei Buloh Wetland Reserve. Individuals were subsequently seen on 11 Aug 2022 at Pasir Ris Park, 22 Aug 2022 at Bishan-Ang Mo Kio Park, and on 26 Aug 2022 at Singapore Botanic Gardens.

## Blue-eared Kingfisher

*Alcedo meninting*

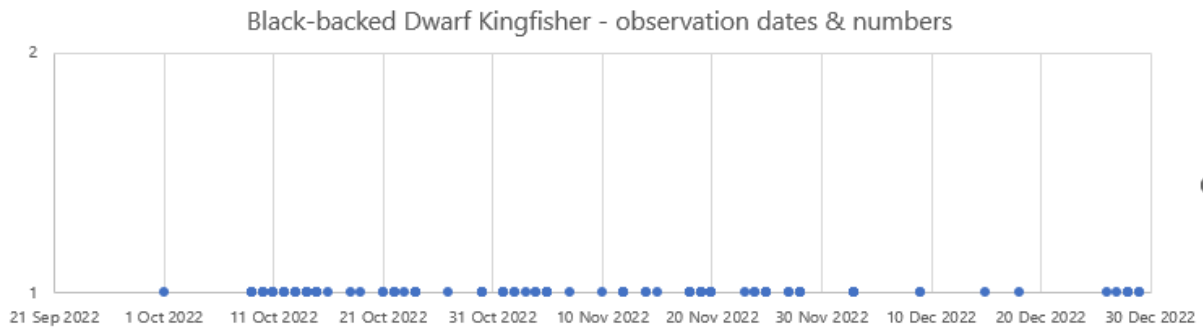


*Map showing sighting locations of Blue-eared Kingfisher between Jul and Dec 2022*

Breeding reported. A juvenile was spotted within the grounds of Windsor Nature Park on 8 Jul 2022, while a juvenile and adult were seen along a stream within the Central Catchment Nature Reserve.

## Black-backed Dwarf-Kingfisher

*Ceyx erithaca*

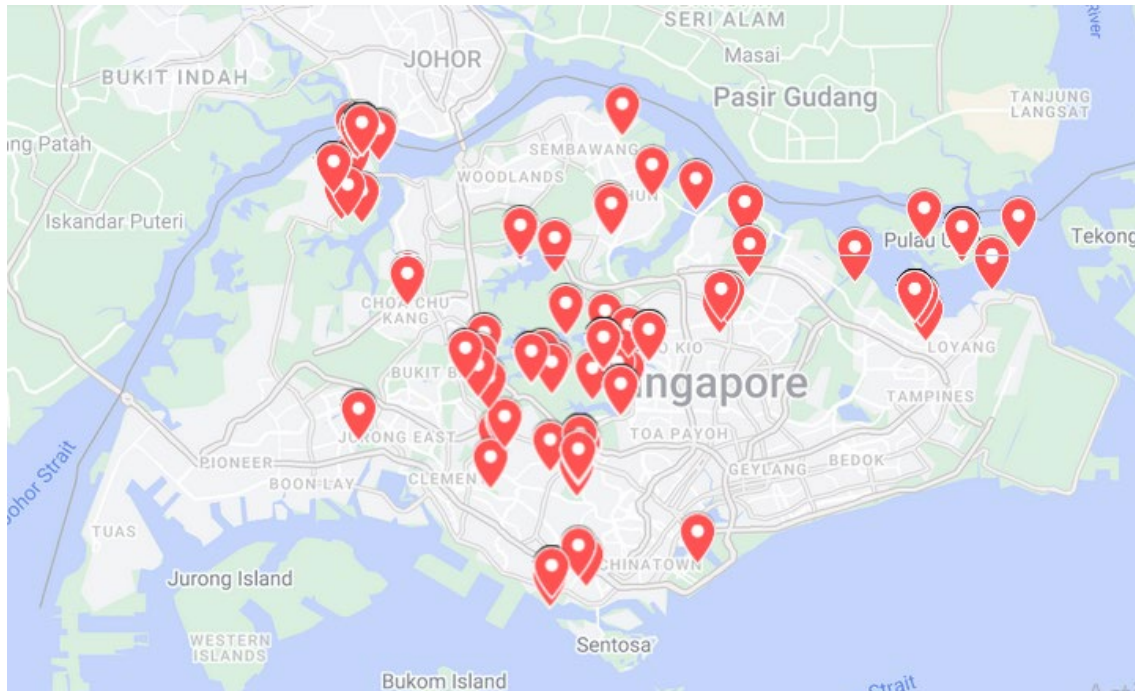


The first record of the season was an individual found on the floor of the Minton, a condominium along Hougang Street 11, on 1 Oct 2022. Reports of individuals began coming in from 9 Oct 2022 onwards; such as one individual on 9 Oct 2022 from Windsor Nature Park, and an individual reported from Central Catchment Reserves on 14 Oct 2022 and 21 Oct 2022.

Individuals were spotted from within the Central Catchment (14 Oct 2022 to 5 Nov 2022), Hampstead Wetlands Park (30 Oct 2022), Pasir Ris Park (12 Nov 2022), Singapore Botanic Gardens (14 Nov 2022 to 29 Dec 2022), and Windsor Nature Park (9 Oct 2022 to 27 Dec 2022).

## Stork-billed Kingfisher

*Pelargopsis capensis*



Map showing sighting locations of Stork-billed Kingfisher between Jul and Dec 2022

During this period, pairs have been observed at Bishan-Ang Mo Kio Park, Central Catchment Nature Reserve, Changi Point Coastal Walk, Dairy Farm Nature Park, Hindhede Nature Park, MacRitchie Reservoir Park, Pasir Ris Park, Pulau Ubin, Singapore Botanic Gardens, Singapore Zoo, Sungei Buloh Wetland Reserve and Windsor Nature Park.

## Ruddy Kingfisher

*Halcyon coromanda*



*A Ruddy Kingfisher photographed on 24 Oct 2022 by Ho Siew Mun at Berlayer Creek.*

An individual, noted by the contributor to be a *minor* subspecies, was seen on Pulau Ubin on 9 Sep 2022. A single bird was found in a multi-storey carpark in Chinatown on 22 Oct 2022, while another bird was seen along the Berlayer Creek boardwalk from 22 to 29 Oct 2022. Another individual was seen at Fort Canning Park on 5 Nov 2022 in the park area near the information centre.

## Blue-throated Bee-eater

*Merops viridis*

Birds were present from 1 Jul 2022 to 31 Dec 2022.

## Blue-tailed Bee-eater

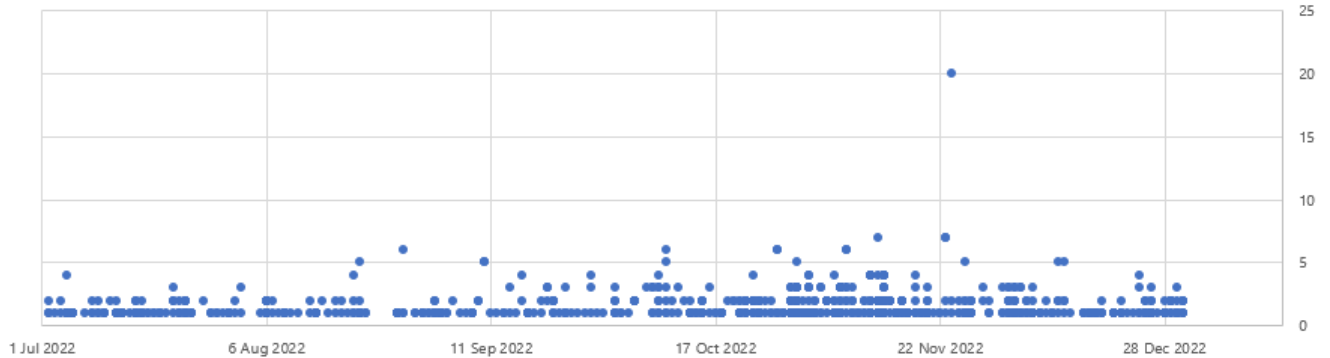
*Merops philippinus*

The first sightings were recorded only on 2 Sep 2022, with two birds seen over Lim Chu Kang. Birds continued to be seen until 31 Dec 2022.

## Dollarbird

*Eurystomus orientalis*

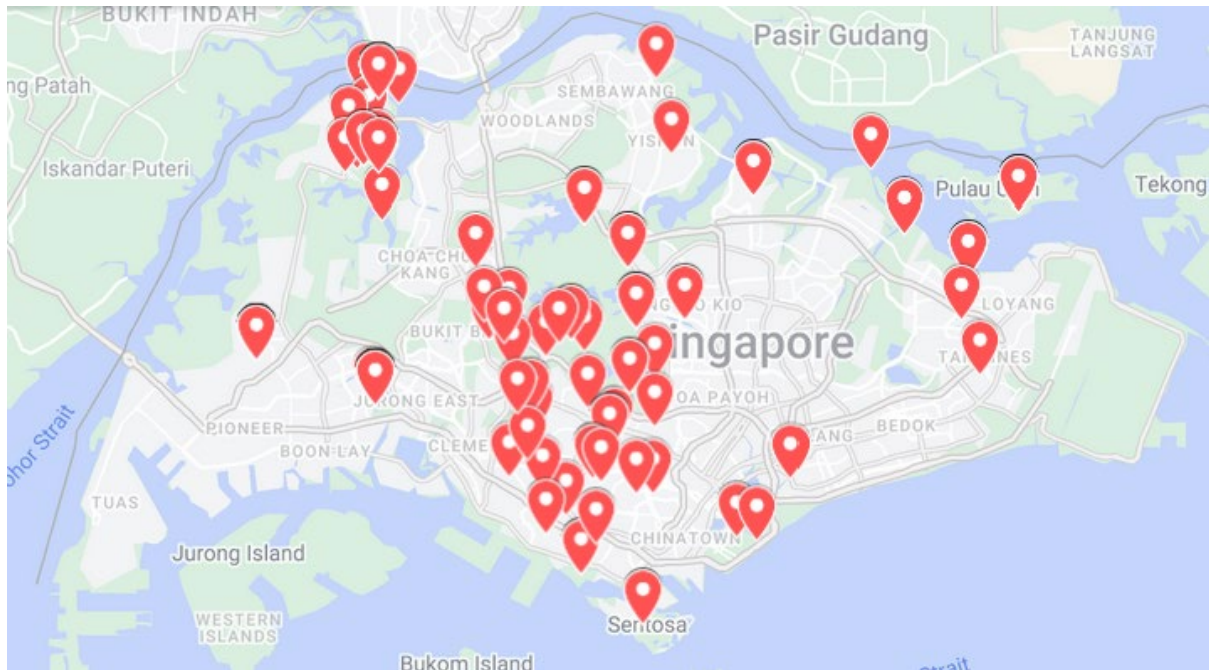
Dollarbird - observation dates & numbers



Birds continued to be seen from 2 Jul 2022 to 31 Dec 2022. Numbers began picking up from the latter half of Aug 2022 onwards, with five or more birds spotted in the reports. A high number of at least 20 was counted on 24 Nov 2022 from Jalan Lam Sam, as the observer noted that they were flying high and appeared to be sallying about for insect prey. A juvenile was seen on 5 Jul 2022 at Telok Blangah Hill Park.

## Coppersmith Barbet

*Psilopogon haemacephalus*



Map showing sighting locations of the Coppersmith Barbet between Jul and Dec 2022

A total of 208 sighting records were reported between Jul and Dec 2022.



## Red-crowned Barbet

*Psilopogon rafflesii*



Map showing sighting locations of the Red-crowned Barbet between Jul and Dec 2022

There were 132 observations submitted between Jul and Dec 2022. Birds were seen and/or heard at the Central Catchment Reserve, as well as the adjoining buffer parks such as Dairy Farm Nature Park, Lower Peirce Reservoir Park, MacRitchie Reservoir Park, Thomson Nature Park, Upper Seletar Reservoir Park and Windsor Nature Park. Incidentally, an individual was heard from the Healing Garden at Singapore Botanic Gardens on 28 February 2022.

Eleven records comprised three or more birds, with the Central Catchment having three observations on 23 Jul 2022, 1 Aug 2022, 13 Oct 2022, 22 Oct 2022, 24 Oct 2022, and 30 Dec 2022, and four counts on 1 Oct 202 and 16 Dec 2022. A record of five birds were spotted in a fruiting tree at Dairy Farm Nature Park on 25 Jul 2022, while three were spotted along Rifle Range Link on 1 Oct 2022 and another three from Upper Seletar Reservoir Park on 28 Dec 2022.

An individual was reported to be "pecking away at a tree" on 6 Nov 2022 at Dairy Farm Nature Park, which possibly suggests an attempt at nest excavation. There were no other breeding-related behaviours reported.

## Lineated Barbet

*Psilopogon lineatus*



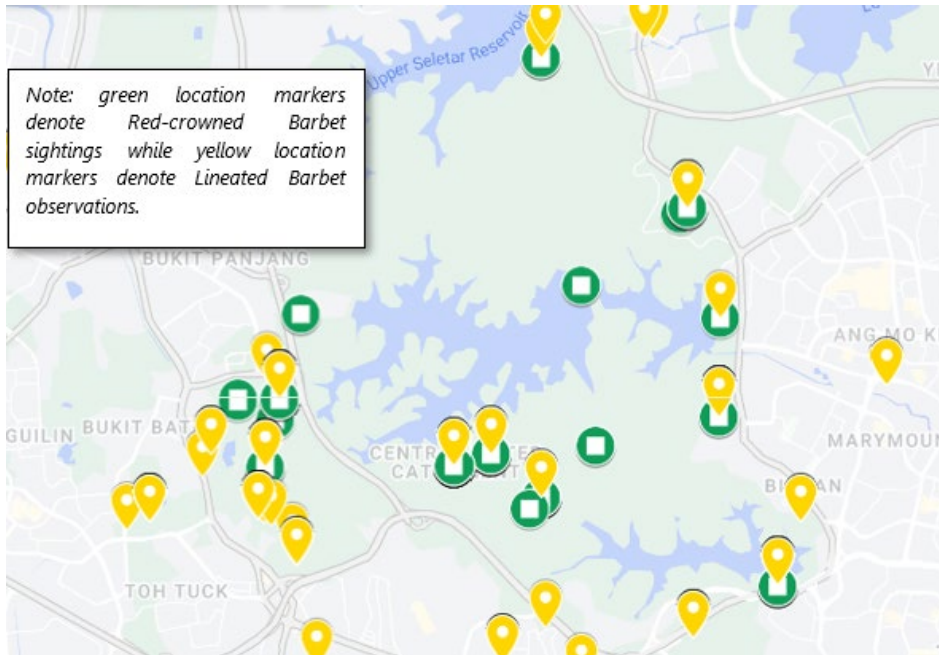
Map showing sighting locations of the Lineated Barbet between Jul and Dec 2022

This large barbet is distributed across a large native range in the Indian sub-continent, Indochina, south-west China, as well as Java and Bali (Robson 2008). As of 1999, Wells (1999) noted that the species was limited to northern Peninsular Malaysia; however, it had started moving south along the east coast of the peninsula. Wells also noted that the Red-crowned Barbet resides and nests primarily within the Central Catchment, while the Lineated Barbet was usually observed in secondary forests. By 2014, Wong (2014) noted that the population of this invasive species ballooned over the two decades prior to his publication and had become relatively common in secondary forests and many green spaces, possibly due to the expansion of green corridors along the country. Wong (2014) also observed that the barbet had not been spotted in eastern Singapore.

By 2022, this has changed as the barbet has been recorded at Changi Point Coastal Park (31 Jul 2022- one record), Hampstead Wetland Park between 9 Aug 2022 and 10 Dec 2022 (seven records), Pasir Ris Park between 27 Aug 2022 and 27 Oct 2022 (three records), Edgefield Plains (5 Oct 2022 - one record), Lorong Halus Wetland (1 Oct 2022 & 19 Nov 2022 – two records).

Wells (1999) noted that while the Lineated Barbet is a cavity nesting species, there was no competition given that it had not yet been found in primary forests in the 1990s. However, given that this barbet had been observed to be aggressive towards woodpeckers sharing the same nesting niche (Wells 1999), it remains to be seen if this species could begin displacing the native, Red-crowned Barbet over the coming decade, as there is now considerable overlap of the two species within the Central Catchment Reserves and buffer nature parks (see map below).

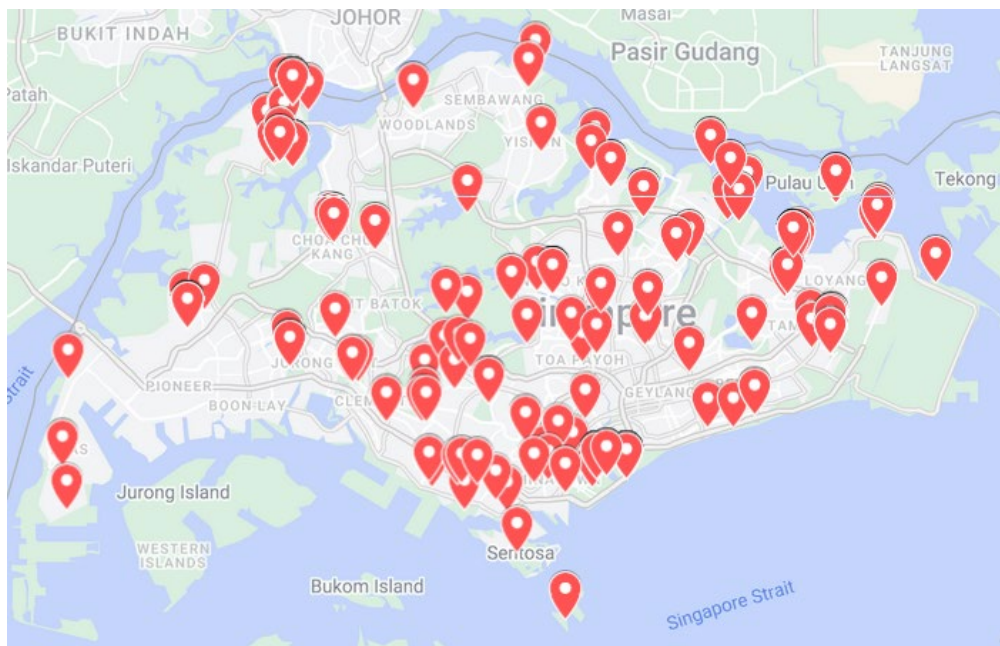




Comparing sighting locations of the Red-crowned & Lineated Barbet between Jul and Dec 2022 within the Central Catchment Reserves and buffer nature parks

### Sunda Pygmy Woodpecker

*Yungipicus moluccensis*



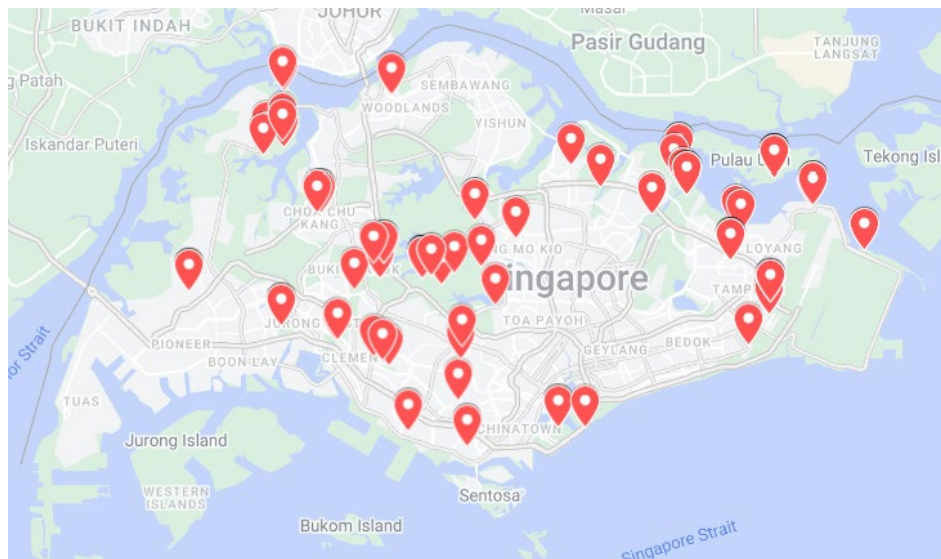
Map showing sighting locations of the Sunda Pygmy Woodpecker between Jul and Dec 2022

A total of 385 sighting records were reported between Jul and Dec 2022. An individual was spotted on St John's Island on 4 Dec 2022.

Breeding recorded. Two adults and a chick were seen in a nest built in a dead tree branch on 24 Sep 2022 at Gardens by the Bay.

## Rufous Woodpecker

*Micropternus brachyurus*



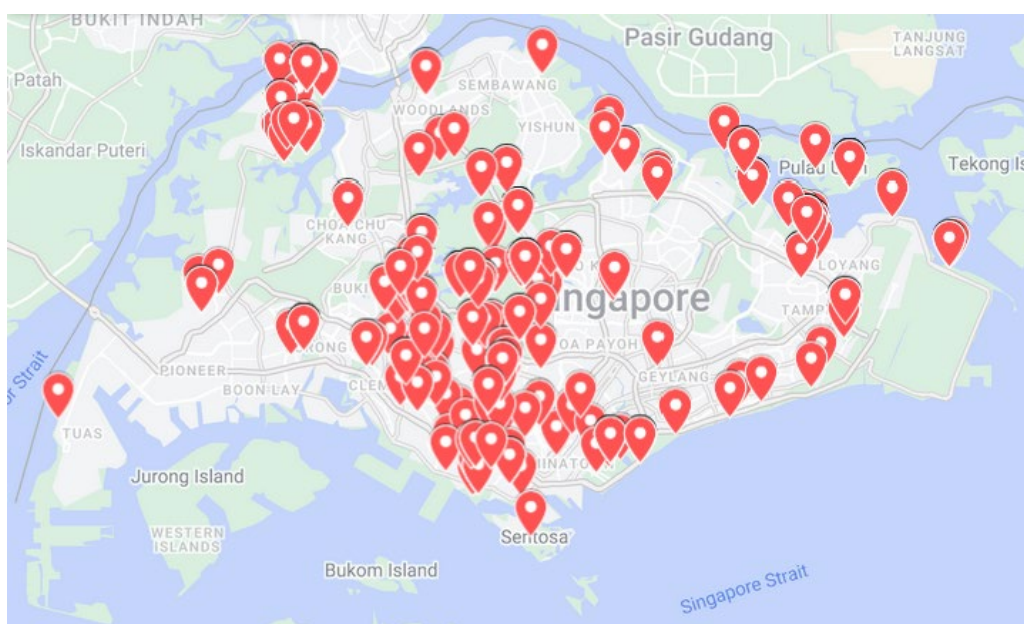
Map showing sighting locations of the Rufous Woodpecker between Jul and Dec 2022

Found in the Central Catchment, buffer nature parks and secondary growth in Singapore, the species have also been encountered in parks such as Admiralty Park, Choa Chu Kang Park, Gardens by the Bay, Pasir Ris Park, Singapore Botanic Gardens, and Tampines Eco Green. A total of 115 sighting records were reported between Jul and Dec 2022.

Breeding recorded. A family group comprising three birds were seen on 8 Aug 2022 at Choa Chu Kang Park, while another comprising four birds were spotted on 27 Aug 2022 at Lorong Halus Wetland.

## Common Flameback

*Dinopium javanense*



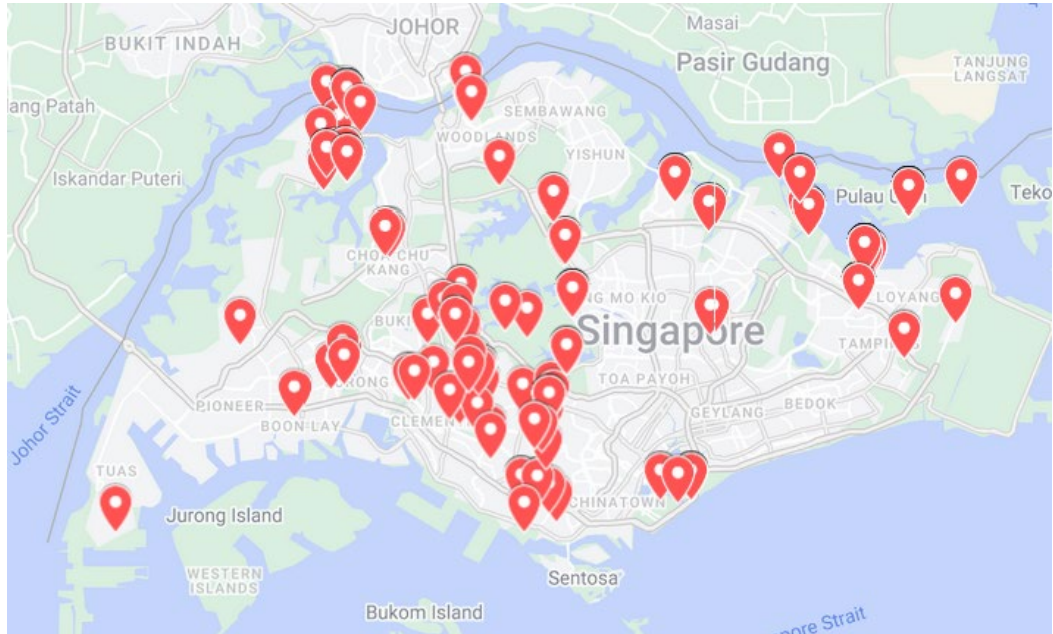
Map showing sighting locations of the Common Flameback between Jul and Dec 2022

A total of 817 sighting records were reported between Jul and Dec 2022.

Breeding recorded. Two adults and a juvenile were seen on 14 Jul 2022 at Thomson Nature Park.

## Laced Woodpecker

*Picus vittatus*



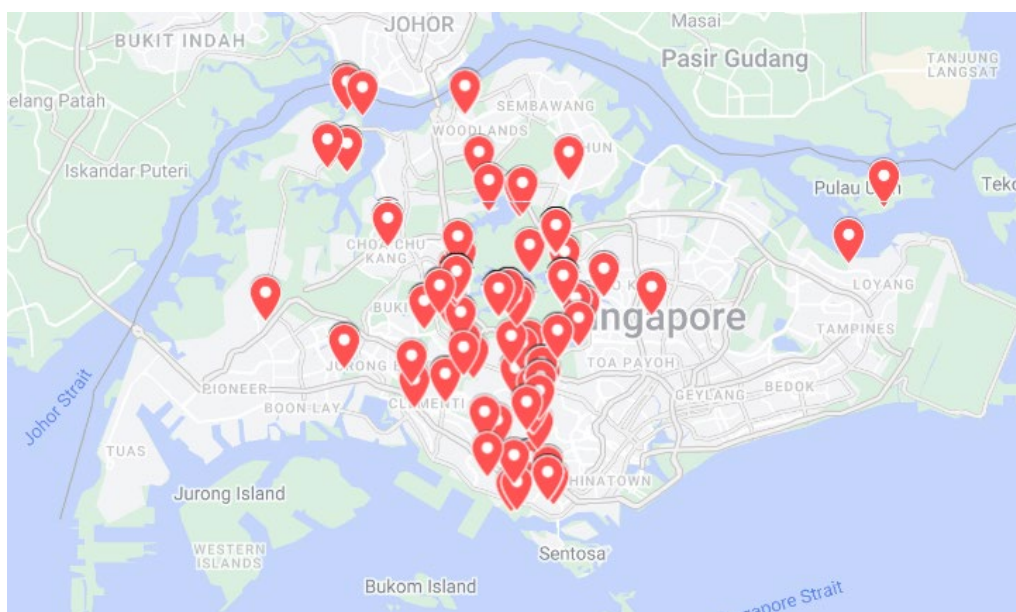
Map showing sighting locations of the Laced Woodpecker between Jul and Dec 2022

Birds were generally found in secondary growth, mangroves, coastal scrub, gardens, and secondary growth in Singapore, though some may be found within the Central Catchment. A total of 292 sighting records were reported between Jul and Dec 2022.

Breeding recorded. Two adult and a juvenile were seen on 2 Jul 2022 at Pasir Ris Park.



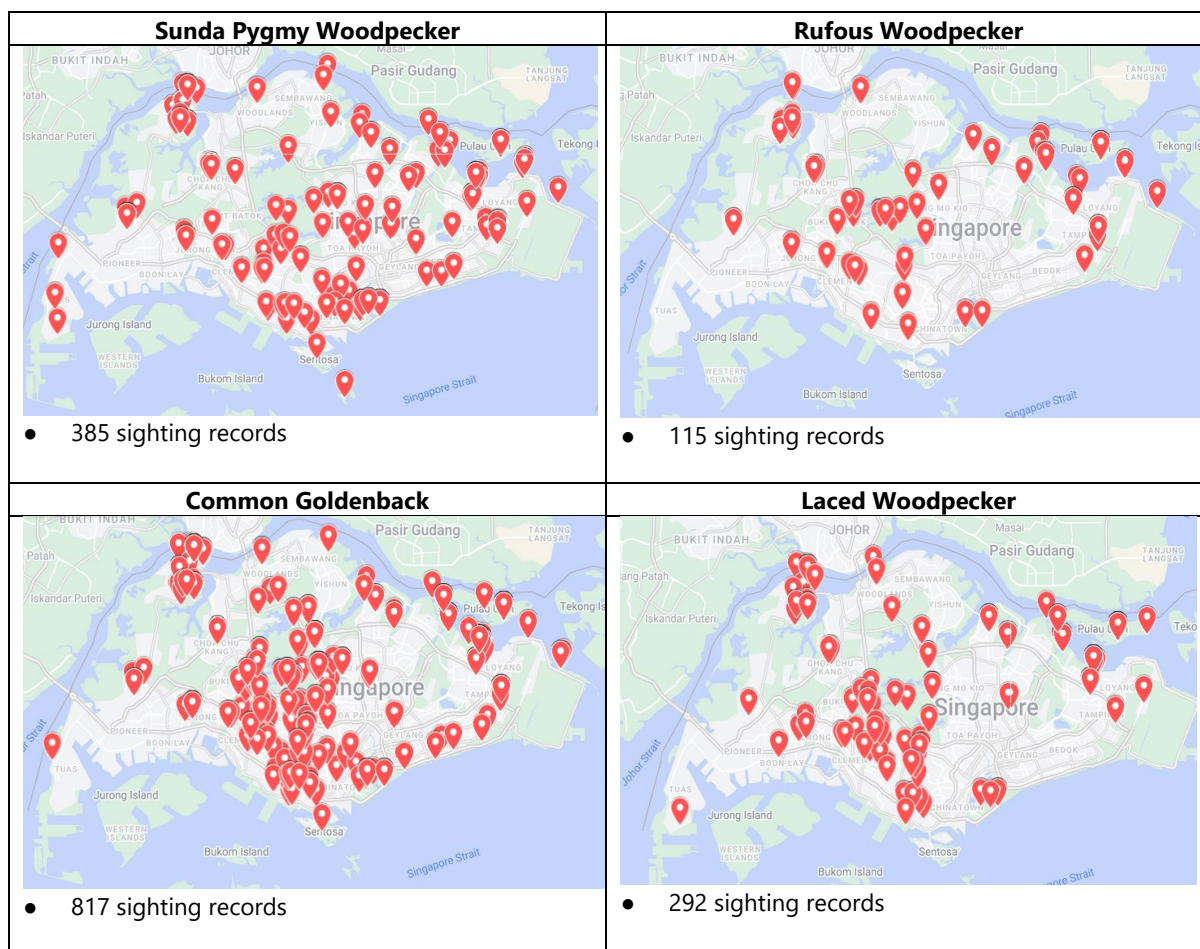
**Banded Woodpecker**  
*Chrysophlegma miniaceum*

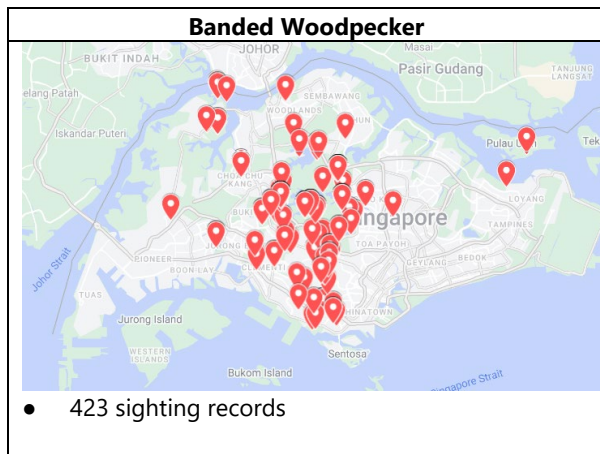


Map showing sighting locations of the Banded Woodpecker between Jul and Dec 2022

A total of 423 sighting records were reported between Jul and Dec 2022.

**A comparison of five Woodpecker species in Singapore – Jul to Dec 2022**





The above data places the order of ease of encountering our five resident species of Woodpecker as follows:

- Common Goldenback (817 sighting records);
- Banded Woodpecker (423 sighting records);
- Sunda Pygmy Woodpecker (386 sighting records);
- Laced Woodpecker (292 sighting records);
- Rufous Woodpecker (115 sighting records).

Perhaps it is the showiness and loud calls of both the Common Goldenback and Banded Woodpecker that lend themselves to be more noticeable compared to the other three species. It was surprising for this author that the Sunda Pygmy Woodpecker had fewer records than the Banded Woodpecker, as this species appears to be more adaptive as they are seen across a wider range of habitats including highly urbanised settings such as HDB carparks and green spaces set amidst public housing and office towers. However, they could have been missed as they are smaller and less noticeable. It remains to be seen if they are under-counted due to their ubiquity, very much like our Javan Mynas and Yellow-vented Bulbuls.

### **Eurasian Kestrel**

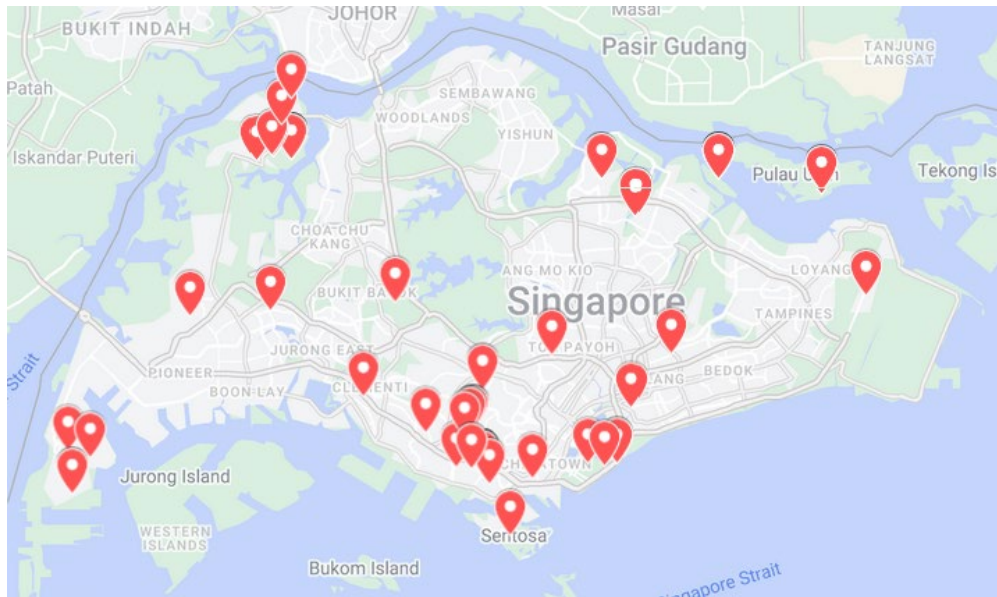
*Falco tinnunculus*

The first record for the season was of an individual spotted on 6 Nov 2022 at Henderson Waves. A second bird was seen the next day on 7 Nov 2022 at Tuas South Avenue 3. Between 12 and 14 Dec 2022, an individual was seen at the LTA building along Marina East Drive and the adjacent fields. A fourth record was of a single individual spotted on Christmas Day, 25 Dec 2022, at the area around Tuas South Avenue 16.



## Peregrine Falcon

*Falco peregrinus*

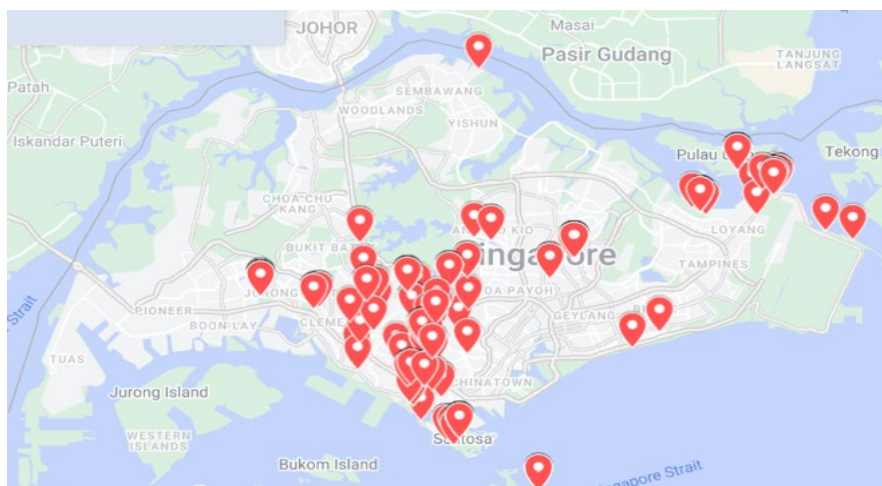


Map showing sighting locations of the Peregrine Falcon between Jul and Dec 2022

A resident *ernesti* subspecies was spotted on 21 Jul 2022 at Pulau Ubin. An individual seen on 3 Aug 2022 at Toa Payoh Town Park; however, there were no notes as to whether this was a resident or migratory race. As such, the most likely first of the season record came from a bird spotted on 18 Sep 2022 at Sentosa Island.

## Tanimbar Corella

*Cacatua goffiniana*



Map showing sighting locations of the Tanimbar Corella between Jul and Dec 2022

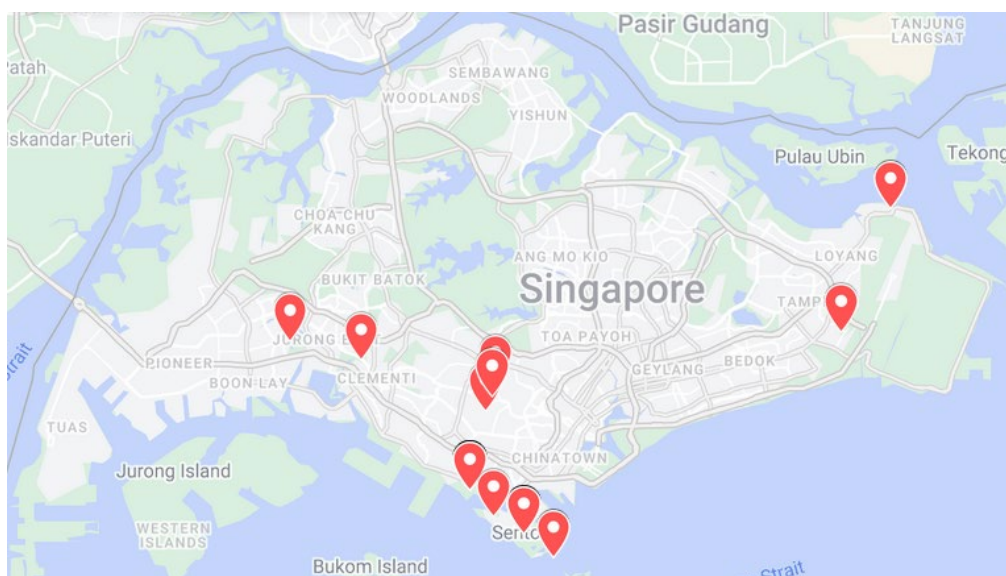
A total of 307 sighting records were reported between Jul and Dec 2022. High numbers were reported from the following locations – Bukit Brown Cemetery on 22 Dec 2022 (8 birds), Pulau Ubin on 7 Oct 2022 (9 birds), Sentosa Island on 14 Aug 2022 (10 birds), Linden Drive on 14 Aug 2022 (10 birds), and Singapore Botanic Gardens on 10 Oct 2022 (10 birds). There were between 15 to 20 birds at Changi Village on 29 Oct 2022, 10 Nov 2022 and 12 Nov 2022.

Breeding reported. One bird was seen off Lorong Ah Soo on 7 Oct 2022 in its nest. Another was seen in the Southern Ridges on 29 Nov 2022 in its nest hole.

A hybrid Tanimbar Corella x Yellow-crested Cockatoo (*Cacatua goffiniana* x *sulphurea*) was spotted on 30 Dec 2022 along the Berlayer Creek Boardwalk. The hybrid was noted to have a white crest, lacked pinkish lores, and the underside of the tail appeared to have a yellowish tint; it was following the Yellow-crested Cockatoo.

## Sulphur-crested Cockatoo

*Cacatua galerita*



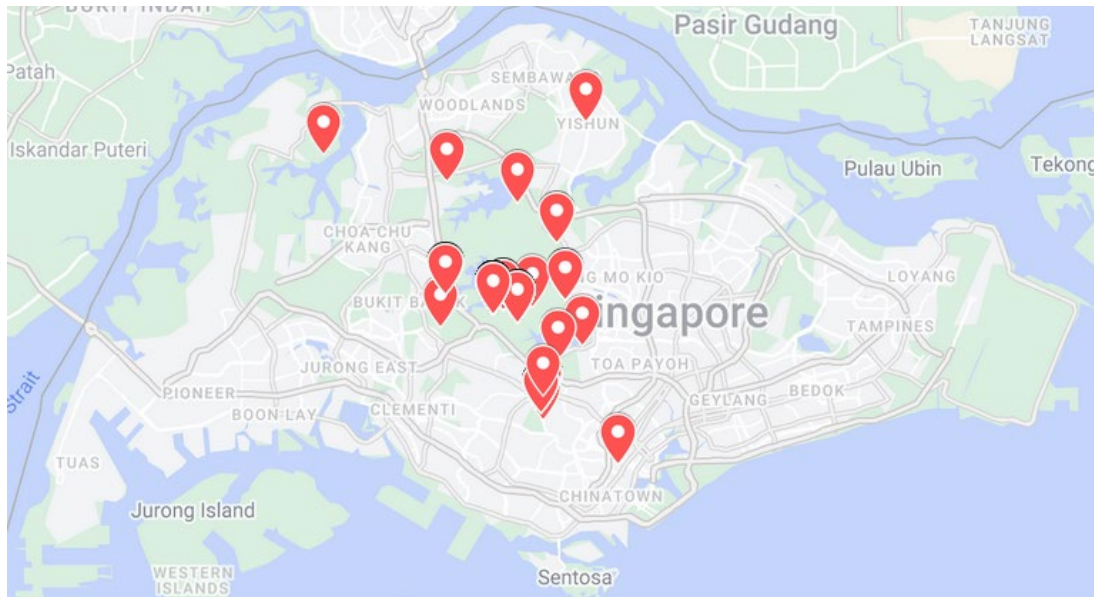
Map showing sighting locations of the Sulphur-crested Cockatoo between Jul and Dec 2022

There are three locations where sustained sightings of the species have been made. Between one to two birds were seen at Berlayer Creek Boardwalk between 22 Oct 2022 and 30 Dec 2022, while between one and seven birds were recorded from Sentosa between 18 Sep 2022 and 28 Dec 2022. Two records of two birds along Singapore Straits on 11 Sep 2022 and 24 Sep 2022 by birders on pelagic trips were geolocated close to Sentosa, and therefore attributable to the Sentosa population. There were two records at Singapore Botanic Gardens in the morning and evening on 27 Nov 2022, and one record on 31 Dec 2022 from Loewen Road, the latter may be attributed to birds that fly between Dempsey and the Botanic Gardens.

Records of one to two sightings came from the following locations - one sighting record at the canal along Changi Business Park on 27 Sep 2022, between two to three birds on 15 & 19 Jul 2022 at Changi Village, one record from Jurong Lake Gardens on 24 Jul 2022, and one record from Ulu Pandan Park Connector on 2 Sep 2022.

## Blue-rumped Parrot

*Psittinus cyanurus*



Map showing sighting locations of the Blue-rumped Parrot between Jul and Dec 2022

Most sightings remain clustered around the Central Catchment and adjoining buffer parks. Sightings have become more consistent at Singapore Botanic Gardens. Between 15 Aug 2022 and 13 Nov 2022, between one and six birds were spotted within the garden grounds. Most sightings were clustered around fruiting *Magnolia champaca* (Chempaka) trees. High counts were recorded from Central Catchment with seven birds spotted on 22 Oct 2022 (one heard; six seen) and nine seen on 31 Jul 2022 from Jelutong Tower. Six birds were seen at Singapore Botanic Gardens on 10 Oct 2022. There was a sighting at Bukit Brown of two birds on 22 Dec 2022. Outlier locations include Kranji Marsh (10 Nov 2022; one bird), Fort Canning Park (31 Dec 2022; three birds, red underwing coverts clearly seen), Yishun Street 11 (30 Nov 2022; one bird chased by a crow).

The movements outside the Central Catchment and buffer parks suggest that the parrots have begun to radiate out into other areas, with the sighting at Bukit Brown suggesting that some birds travel from the Central Catchment area to places such as the Botanic Gardens to forage. Whether the species would follow the way of the Blue-crowned Hanging Parrot, *Loriculus galgulus*, remains to be seen. If these birds can find food and nesting resources in our parks and green spaces, a testament to NParks' greening effort, we may well see more of them in the ensuing decades.

## Alexandrine Parakeet

*Psittacula eupatria*

An observer reported a pair at the vicinity of Sengkang Riverside Park and Sengkang Floating Wetland on 4 Oct 2022; the description of a pink bar on the nape and red lesser wing-coverts helped to ensure that the sighting was not of Rose-ringed Parakeets, *Psittacula krameri*. This species is not in the NSS checklist.



## Rose-ringed Parakeet

*Psittacula krameri*



Map showing sighting locations of the Rose-ringed Parakeet between Jul and Dec 2022

A total of 780 sighting records were reported between Jul and Dec 2022.

A high count<sup>1</sup> of about 90 birds in five flocks were reported from Chuan Lane Park on 18 Dec 2022, while an estimated 60 birds were spotted from 30 Woodlands Ring Road on 12 Aug 2022. High numbers of between 30 and 35 birds were recorded from Gardens by the Bay and Marina Bay East between 11 Sep 2022 and 23 Dec 2022.

Thirty birds were counted from Jelutong Tower within the Central Catchment on 28 Aug 2022. It remains to be seen whether this species could supplant the Red-breasted Parakeet, *Psittacula alexandri*, and our resident Long-tailed Parakeet, *Psittacula longicauda*; the latter being a worrisome trend, over the mid- and long-term.

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<sup>1</sup> Previous high numbers were reported from Changi Business Park (40 birds on 1 February 2022; 20 birds on 5 June 2022), MacRitchie Reservoir Park (35 birds on 31 March 2022; 25 birds on 9 May 2022), Telok Kurau (25 birds on 27 April 2022), Lorong Halus Wetland (20 birds on 16 May 2022), Marina East (20 birds on 27 February 2022), and Piccadilly at Seletar (20 birds on 9 April 2022).

## Red-breasted Parakeet

*Psittacula alexandri*



Map showing sighting locations of the Red-breasted Parakeet between Jul and Dec 2022

A total of 826 sighting records were reported between Jul and Dec 2022.

High numbers<sup>2</sup> were reported from near “No Horse Run Café” at Choa Chu Kang in the west (more than 100 birds on 8 Oct 2022), and Ladang Camp in the east on Pulau Tekong (about 100 birds on 9 Nov 2022). Estimates of 50 birds were reported from Kranji Marsh on 10 Jul 2022, Pasir Ris Park on 7 Aug 2022, Nanyang Technological University on 13 Oct 2022 and Changi Point Coastal Walk on 10 Nov 2022.

Ang (2022) reported the culling of Red-breasted Parakeets from a communal roost at Choa Chu Kang in Nov 2022, very likely the one with more than 100 birds reported in Oct 2022. No numbers were given by the authorities; a resident was quoted that the roost had been active since 2017. Long-tailed Parakeets, *Psittacula longicauda*, have been sighted at this roost (*pers. obs.*) and any individuals caught during this operation were presumably released subsequently as this is a native species.

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<sup>2</sup> Previous high numbers were reported from Nanyang Technological University (150 birds on 4 March 2022; 100 birds on 8 March 2022; 43 on 23 April 2022), and Holland Plain (55 birds on 4 February 2022).



## Long-tailed Parakeet

*Psittacula longicauda*



Map showing sighting locations of the Long-tailed Parakeet between Jul and Dec 2022

A total of 680 sighting records were reported between Jul and Dec 2022.

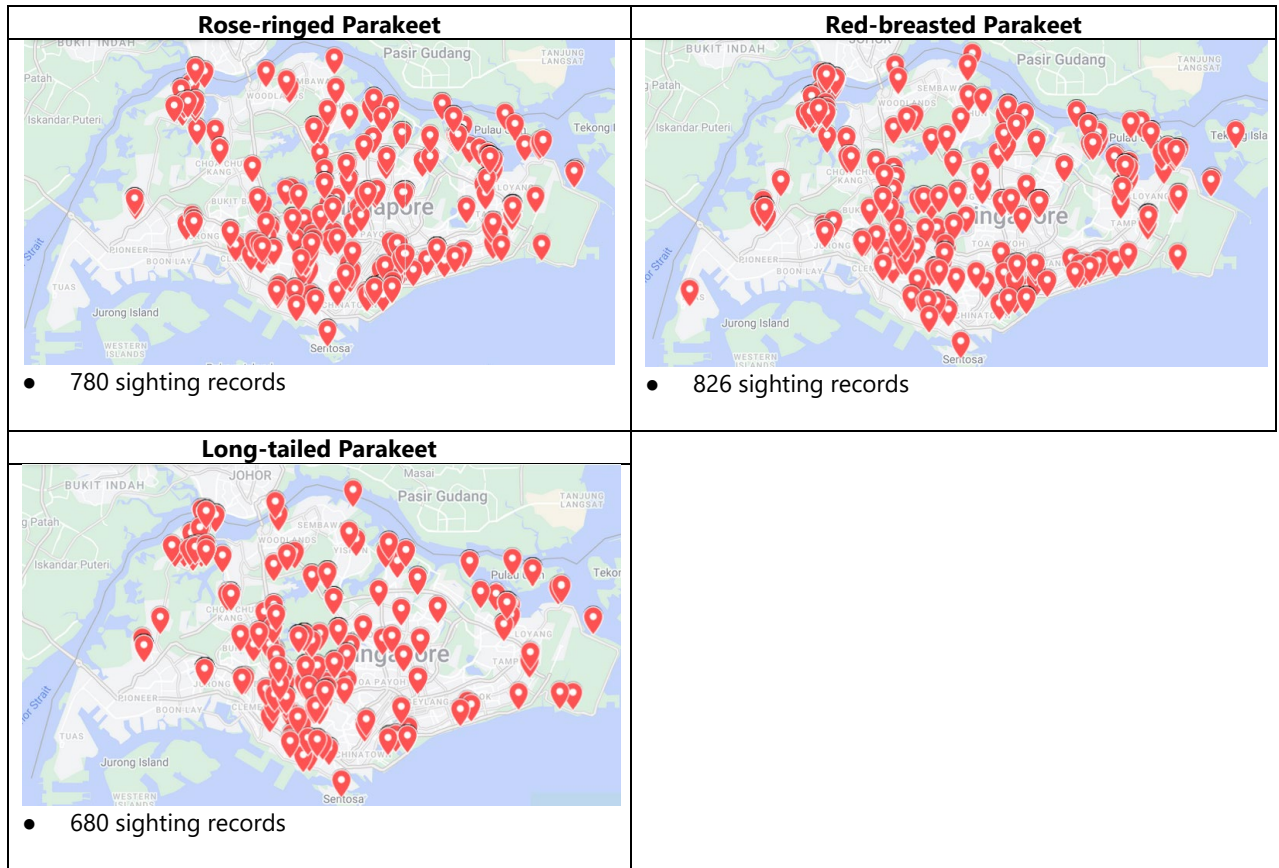
High numbers<sup>3</sup> of between 50 and 120 birds have been counted from within the Central Catchment between 4 Sep 2022 and 16 Dec 2022; fifty birds were counted on 22 Oct 2022 and 16 Dec 2022, 55 birds were seen on 13 Oct 2022, 60 on 16 Oct 2022, 70 on 4 Sep 2022, 72 on 24 Oct 2022, and approximately a hundred on 21 Oct 2022. On 4 Sep 2022, three counts of 50, 70 and 120 were reported; the latter two being at the same time from Jelutong Tower. It remains to be seen whether this constitutes multiple large flocks of this species flying over the Central Catchment from outside roosts, or just a single flock in multiple directions. The observations would be helpful to conservationists among the local government authorities, academics, and nature NGOs such as the NSS.

Other locations with high numbers include Nanyang Technological University (74 on 6 Oct 2022, and 100 on 13 Oct 2022), possibly constituting the Western Catchment population. Two other locations include Bukit Sedap (50 birds on 8 Nov 2022) and Victoria Park Close (60 birds on 22 Oct 2022); these two locations are near Singapore Botanic Gardens and within reach of the southwestern edge of the Central Catchment (viz. Sime Road vicinity).

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<sup>3</sup> High numbers were previously reported from Nanyang Technological University (100 birds on 4 March 2022; 60 birds on 14 April 2022; 50 on 8 March 2022), Bukit Timah (96 birds on 4 April 2022; 55 on 14 May 2022), Jelutong Tower, Central Catchment (64 birds on 20 March 2022; 40 on 19 January 2022), Singapore Botanic Garden (50 birds on 8 January 2022).

## A comparison of three Parakeet species in Singapore – Jul to Dec 2022



The above data places the order of ease of encountering the three species of Parakeet, based on the number of sighting records, as follows:

- Red-breasted Parakeet (826 sighting records);
- Rose-ringed Parakeet (780 sighting records);
- Long-tailed Parakeet (680 sighting records).

Pressure on our resident Long-tailed Parakeets comes from the two other non-native birds. Detailed survey data is needed to see whether they could hold their ground in the face of competition from the two other species.

## Coconut Lorikeet

*Trichoglossus haematodus*



Map showing sighting locations of the Coconut Lorikeet between Jul and Dec 2022

A total of 205 sighting records, were reported between Jul and Dec 2022. Relatively high numbers of between 10 and 12 birds have been recorded from Singapore Botanic Gardens between 9 Oct 2022 and 19 Nov 2022, while a high number of 25 was spotted at Bishan-Ang Mo Kio Park on 26 Dec 2022. The usual seen between 3 Jul 2022 and 26 Dec 2022 were between one and three birds, with a maximum of six on 3 Jul 2022 and 21 Aug 2022, and ten on 13 Aug 2022.

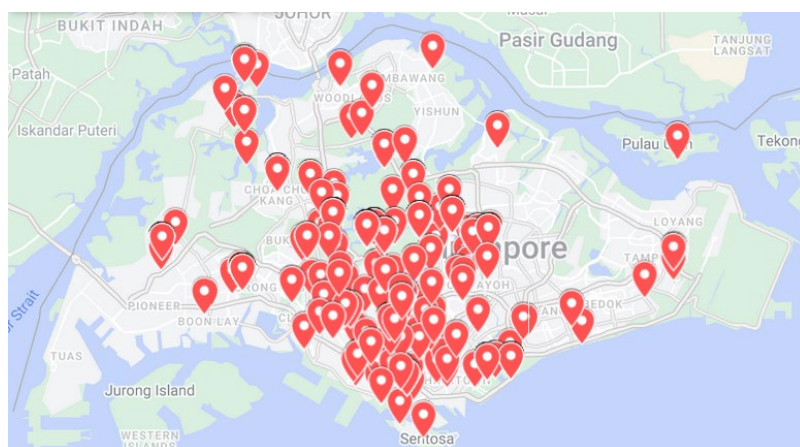
## Rainbow Lorikeet

*Trichoglossus moluccanus*

On 29 Dec 2022, two birds in a group of five lorikeets were spotted at Dempsey Hill. However, the observer noted that three appeared to be hybrids. This species is not in the NSS checklist.

## Blue-crowned Hanging-Parrot

*Loriculus galgulus*



Map showing sighting locations of the Blue-crowned Hanging Parrot between Jul and Dec 2022

A total of 742 sighting records were reported between Jul and Dec 2022.



High numbers continue to be reported from within the Central Catchment, with a high of 15 counted from Rifle Range Link on 21 Oct 2022. The usual count from here range between 10 and 12 (n = 10; including record with 15 birds). Other locations with counts of 10 to 12 birds include Nanyang Technological University (13 Oct 2022), Singapore Botanic Gardens (n = 3) and the nearby Dempsey Hill (17 birds on 27 Dec 2022).

### **Rosy-faced Lovebird**

*Agapornis roseicollis*

An observer spotted a single individual on 11 Oct 2022 at the junction of Pasir Ris Coast Industrial Park 6 and Coney Island (East Entrance). This species is not listed in the NSS checklist.

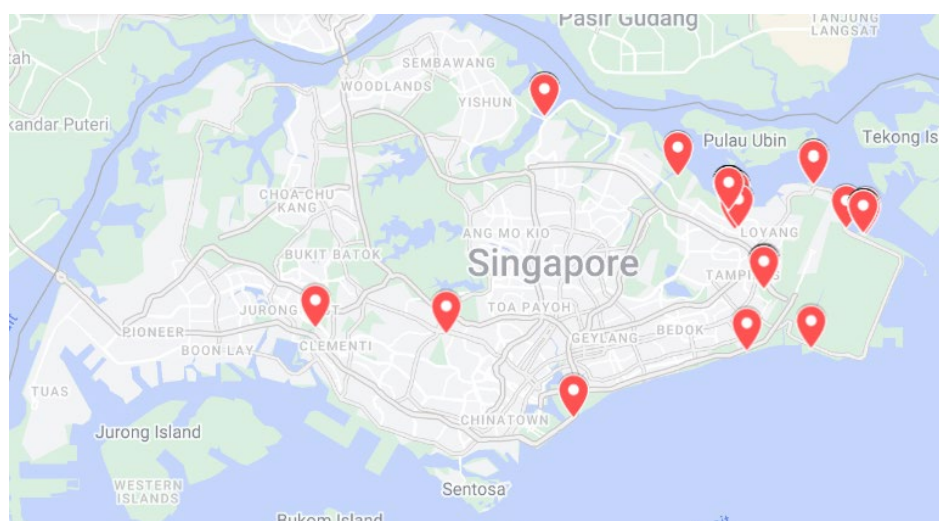
### **Grey Parrot**

*Psittacus erithacus*

An individual was spotted from within the grounds of Singapore Botanic Gardens on 7 Aug 2022, 2 Sep 2022 and 16 Oct 2022. An individual was recorded from Sentosa Island on 18 Sep 2022. Previously, an observer saw an individual in Jan 2022 on the island and added that the bird had been around since Feb 2021, mingling with the cockatoos. This species is not listed in the NSS checklist.

### **Monk Parakeet**

*Myiopsitta monachus*



*Map showing sighting locations of the Monk Parakeet between Jul and Dec 2022*

Records of this invasive species have been concentrated largely in the east. Six birds were spotted within the Singapore Botanic Gardens on 19 Nov 2022, while a single bird was seen at Ulu Pandan Park Connector near Faber Heights on 30 Oct 2022. Five birds were seen at Marina East Drive on 30 Nov 2022, flying towards the golf course, while there were two sightings of four and two birds on 13 Aug 2022 and 19 Aug 2022 from Seletar Dam. This species is not listed in the NSS checklist.

## Black-and-red Broadbill

*Cymbirhynchus macrorhynchos*

An individual was seen along the Sensory Trail on Pulau Ubin between 28 Jul 2022, and was last seen flying off in a northerly direction. Another bird was seen at Sungei Buloh Wetland Reserve on 10 Jul 2022; the observer noted that the bird was ringed.

## Blue-winged Pitta

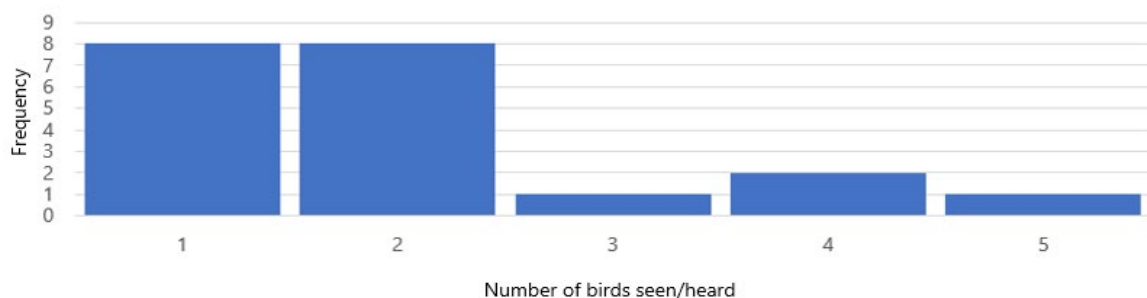
*Pitta moluccensis*



*Map showing sighting locations of the Blue-winged Pitta between Jul and Dec 2022*

There were twenty records of pitta encounters between Jul and Aug 2022. Records came mainly from Pulau Ubin (n = 14), the Kranji Marsh-Neo Tiew-Lim Chu Kang area (n = 3) and Central Catchment Reserve (n = 3). These appear to be small resident populations establishing themselves on the main island<sup>4</sup>. Chart 1 shows the frequency of counts of the birds encountered per sighting record during this period. A high count of five birds was recorded from the Central Catchment Reserve on 2 Jul 2022. Most of the time, only one or two birds were seen or heard.

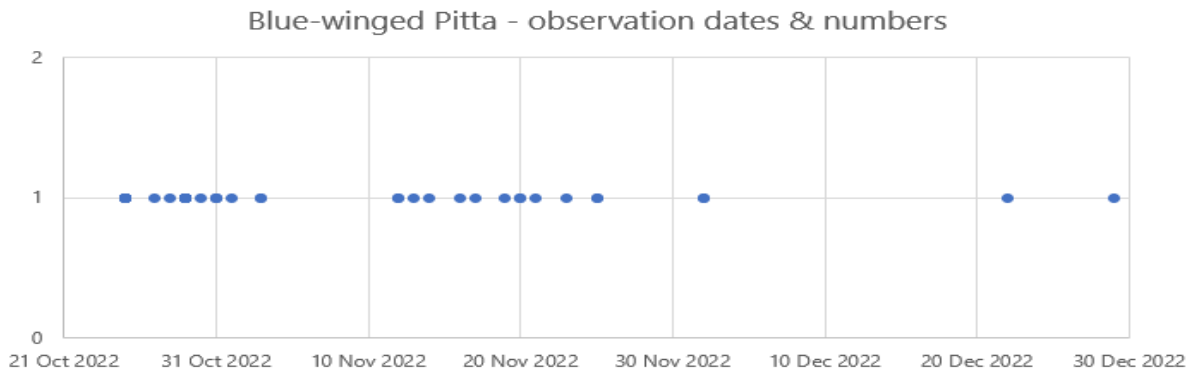
*Chart 1 – Frequency of counts of Blue-winged Pittas seen or heard per sighting record between Jul – Aug 2022*



The first likely migratory record for the season came from a single bird spotted at the Berlayer Creek Boardwalk on 25 Oct 2022. All sighting records during the migratory season were of single individuals.

<sup>4</sup> It was previously reported that birds continued to be recorded in Jun 2022 from locations such as Kranji Marshes, Lim Chu Kang, Lorong Halus Wetland, MacRitchie Reservoir Park, NTU and Pulau Ubin. Additional locations included Bukit Batok Nature Park, Bukit Timah Nature Reserve, Choa Chu Kang Park, and Clementi Forest.





### Hooded Pitta *Pitta sordida*

There were only four records of the Hooded Pitta during this period. The first record of the season was on 26 Nov 2022 from Windsor Nature Park. The remaining three records were from Dairy Farm Nature Park on 27 Nov 2022, 19 Dec 2022 and 21 Dec 2022.

### Mangrove Pitta *Pitta megarhyncha*

There were 21 sighting records during this period from Pulau Ubin. Breeding reported. Three adults and a juvenile were spotted along the Sensory Trail on 28 Jul 2022.

### Golden-bellied Gerygone *Gerygone sulphurea*



Map showing sighting locations of the Golden-bellied Gerygone between Jul and Dec 2022

A total of 136 sighting records were reported between Jul and Dec 2022.

Breeding recorded. Two birds were spotted at a nest sited high in a tree at Lorong Halus Wetland on 6 Sep 2022. A bird was observed to be with a Little Bronze Cuckoo *Chrysococcyx minutillus* on 13 Oct 2022 at East Coast Park.

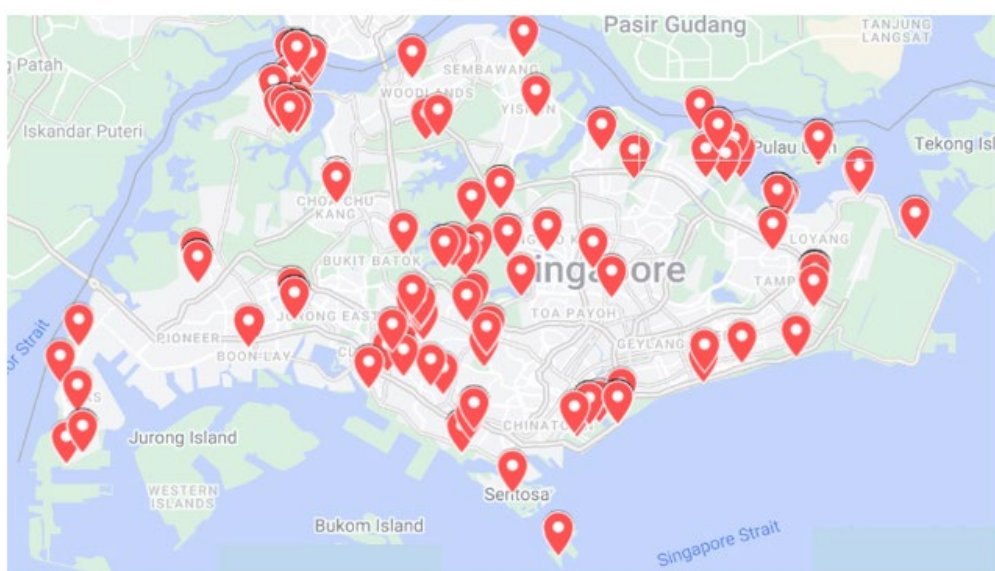
### Ashy Minivet

*Pericrocotus divaricatus*

The first possible record for this season was reported on 2 Sep 2022 from Dover Close East; the observer noted that the bird resembled a Pied Triller with a long tail. A sighting on 19 Oct 2022 from Rifle Range Link was the next earliest record, with the rest of the sightings following soon after, from 21 Oct 2022 onwards. High numbers were recorded from Henderson Waves during the peak migration season – 25 birds were seen on 30 Oct 2022 and 13 Nov 2022, while 20 individuals were spotted on 8 Nov 2022. Another record of 20 birds was from Mount Faber Park on 3 Dec 2022.

### Pied Triller

*Lalage nigra*



Map showing sighting locations of the Pied Triller between Jul and Dec 2022

A total of 336 sighting records were reported between Jul and Dec 2022.

### Mangrove Whistler

*Pachycephala cinerea*

Between one and two individuals were spotted at Berlayer Creek Boardwalk between 8 Oct 2022 and 9 Dec 2022. There were three sighting records from Changi Bay Point between 11 Aug 2022 and 4 Sep 2022; one observer claimed seeing three birds on 11 Aug 2022.

## **Black-naped Oriole**

*Oriolus chinensis*

A total of 2,440 sighting records were reported between Jul and Dec 2022.

## **Black-winged Flycatcher-shrike**

*Hemipus hirundinaceus*

There were two records from Pulau Ubin of a single bird on 3 and 18 Jul 2022, while an individual was reported from Dairy Farm Nature Park on 2 Nov 2022.

## **Common Iora**

*Aegithina tiphia*

A total of 847 sighting records were reported between Jul and Dec 2022.

Breeding reported. Two adults were seen feeding a juvenile on 8 Aug 2022 at One North. The juvenile was also observed to have been trying to forage as well.

## **Malaysian Pied-Fantail**

*Rhipidura javanica*

A total of 1,068 sighting records were reported between Jul and Dec 2022.

## Black Drongo

*Dicrurus macrocercus*



Black Drongo photographed on 12 Nov 2022 at Sungei Tengah by Joseph Lim.

A single bird was reported from Sungei Tengah between 6 and 17 Nov 2022. On one occasion, an observer noted that there were two birds on 12 Nov 2022 as one individual's tail was intact, while another had a tattered tail. There was also another record of an individual spotted on 29 Oct 2022 at Punggol Drive.

## **Ashy Drongo**

*Dicrurus leucophaeus*

An individual was seen on 23 and 27 Jul 2022 at Nanyang Technological University.

## **Crow-billed Drongo**

*Dicrurus annectens*

The first for this season was recorded from Singapore Botanic Gardens on 24 Sep 2022. Mostly single birds were reported from the Central Catchment Reserves and buffer nature parks, Changi Business Park, Kranji Marshes, Pulau Ubin, Sentosa, Singapore Botanic Gardens, Tanglin Road and Tuas South Avenue 8.

## **Greater Racket-tailed Drongo**

*Dicrurus paradiseus*

A total of 836 sighting records were reported between Jul and Dec 2022.

## **Japanese Paradise-Flycatcher**

*Terpsiphone atrocaudata*

There were 79 sighting records for this season. The first for the season was an individual seen on 23 & 24 Oct 2022 at Berlayer Creek Boardwalk. The last record was spotted on 5 Dec 2022 from Singapore Botanic Gardens. The bulk of sightings came from Singapore Botanic Gardens (n = 55). Between one and two birds were seen between 25 Oct 2022 and 5 Dec 2022. Mostly single birds were also seen within the Central Catchment and buffer nature parks (n = 10) between 19 & 30 Nov 2022; two individuals were spotted within Bukit Timah Nature Reserve on 19 Nov 2022. Single birds were also seen at Jurong Lake Garden on 31 Oct 2022, Gardens by the Bay, Bay East on 11 Nov 2022, and Singapore Chinese Cultural Centre on 14 Nov 2022.

## **Amur Paradise-Flycatcher**

*Terpsiphone incei*

There were 227 sighting records for this season. The first for the season were two birds spotted within the Central Catchment Reserve on 11 Sep 2022, while the last sighting record was on 24 Dec 2022 from Singapore Botanic Gardens. The bulk of sightings were from Singapore Botanic Gardens (n = 119) between 23 Sep 2022 and 24 Dec 2022, Central Catchment and the buffer nature parks (n = 41) between 2 Oct 2022 to 3 Dec 2022, Jurong Lake Gardens (n = 22) from 20 Sep 2022 to 17 Nov 2022, and Berlayer Creek Boardwalk (n = 15) from 18 Oct 2022 to 9 Dec 2022. Other sighting records came from a diverse range of locations such as Jurong Hill, the canal along Changi Business Park, Fort Canning, Gardens- and Satay-by the-Bay, Kranji Marsh, Nanyang Technological University, Pasir Ris Park, Tampines Eco Green and Tuas South Avenue 16.



## Blyth's Paradise-Flycatcher

*Terpsiphone affinis*

There were 69 sighting records for this season. The first for the season was an individual spotted on 19 Jul 2022 inside the Central Catchment Reserves, while the next record was a single bird on 15 Aug 2022 from Singapore Botanic Gardens. The last sighting record was an individual from within the Healing Garden in Singapore Botanic Gardens on 30 Nov 2022, as well as another individual seen in Windsor Nature Park on the same day. The bulk of sightings came from Singapore Botanic Gardens (n = 24) between 15 Aug 2022 and 30 Nov 2022, Central Catchment and buffer nature parks (n = 19) between 19 Jul 2022 and 30 Nov 2022, Sungei Buloh Wetland Reserve (n = 10) between 21 Aug 2022 and 29 Nov 2022, and Berlayer Creek Boardwalk (n = 5) between 23 and 30 Oct 2022. Birds were seen across a diverse range of locations such as Ang Mo Kio Garden West, the canal along Changi Business Park, the junction between Clementi Road and Commonwealth Avenue West, Eng Neo Avenue, Pulau Ubin and Tuas South Avenue 16.

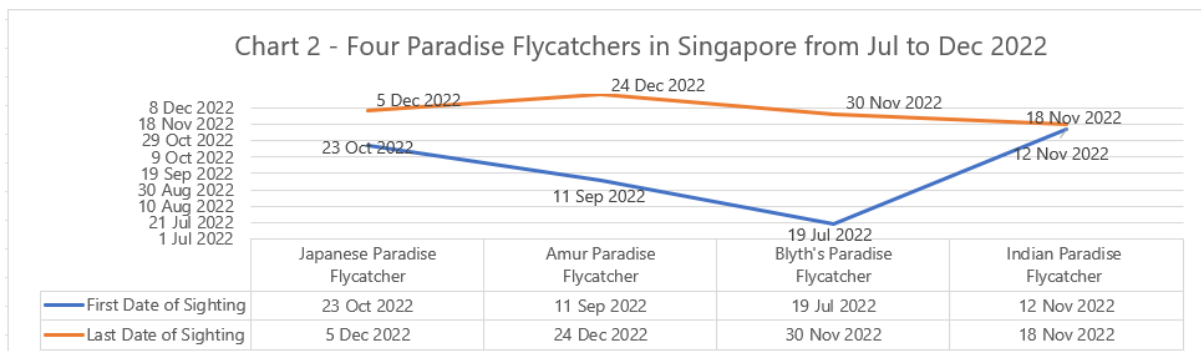
## Indian Paradise-Flycatcher

*Terpsiphone paradisi*

An individual was spotted between 12 and 18 Nov 2022 within the grounds of Singapore Botanic Gardens.

### Four Paradise Flycatchers in Singapore – first and last sighting records

Based on the collected eBird data, the first and last sighting records of four visiting Paradise Flycatchers are presented below in Chart 2.



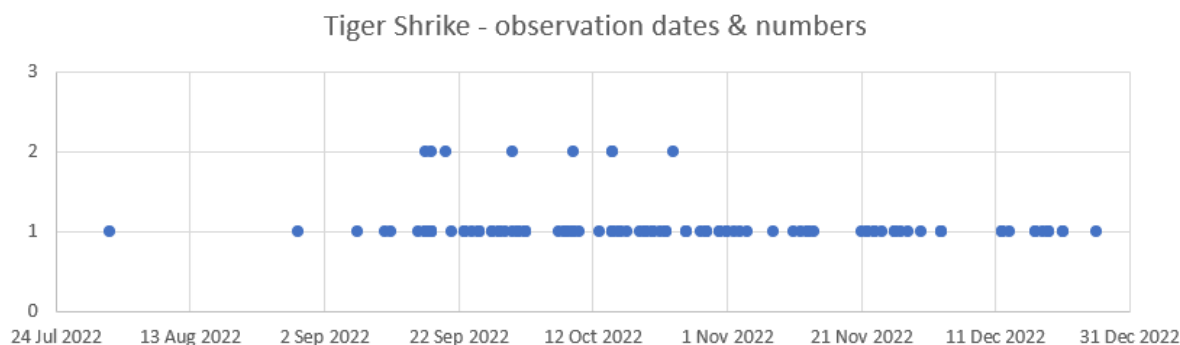
The Indian Paradise Flycatcher is a vagrant to Singapore. To date, we only have 3 sighting records: the winter season of 2017-2018, 2018, and now in 2022. The 2017-2018 bird was first [discovered by Oliver Tan on 2 Dec 2017](#) at Sungei Buloh Wetland Reserve, with a late sighting record of [25 Mar 2018 by Kozi Ichiyama](#); there are online reports of a later sighting. The 2018 record [comprised a sighting at the same Reserve on 18 Nov 2018](#).

Blyth's Paradise Flycatchers appear to be the first regular *Terpsiphone* flycatchers to arrive on our shores as they are residents in Peninsular Malaysia. This could probably account for the 19 Jul 2022 sighting record, as well as the next arrival date of 15 Aug 2022. The arrival dates for the other Paradise Flycatchers are dependent on the distance they had to travel from their

summer grounds, the routes taken, and the effort needed. Future research could shed light on their migration movement.

## Tiger Shrike

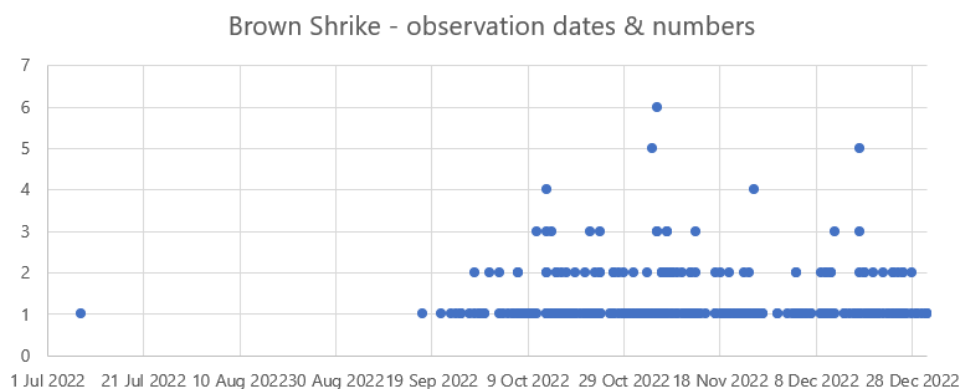
*Lanius tigrinus*



For this season, there were 138 sighting records from 1 Aug 2022 to 26 Dec 2022. The first eBird record for this migratory Shrike for this season was of an adult male spotted on 1 Aug 2022 at Mount Faber Park. Subsequent birds were only recorded on 29 Aug 2022 at Dairy Farm Nature Park (one bird), on 7 Sep 2022 at Windsor Nature Park (single bird), and 12 Sep 2022 at Tampines Eco Green (single individual), and thereafter.

## Brown Shrike

*Lanius cristatus*



There are 360 sighting records for this season. The first eBird record for this season was of a bird spotted on 8 Jul 2022 from atop of Jelutong Tower within the Central Catchment. The next earliest record was of an individual seen on 17 Sep 2022 at Pasir Ris Park. More birds began arriving from 21 Sep 2022 onwards. High counts of six birds were seen around Tuas South Avenue 3 on 5 Nov 2022, while five individuals were spotted at Jurong Lake Gardens on 4 Nov 2022 and at Neo Tiew Harvest Lane on 17 Dec 2022.

## Long-tailed Shrike

*Lanius schach*

A total of 254 sighting records were reported between Jul and Dec 2022.

## House Crow

*Corvus splendens*

A total of 2,074 sighting records were reported between Jul and Dec 2022.

## Large-billed Crow

*Corvus macrorhynchos*



Map showing sighting locations of the Large-billed Crow between Jul and Dec 2022

A total of 291 sighting records were reported between Jul and Dec 2022.

## Japanese Tit

*Parus minor*

A single individual was spotted on 6 Nov 2022 at Jurong Lake Gardens by Lim Kim Chuah.

## Common Tailorbird

*Orthotomus sutorius*

A total of 815 sighting records were reported between Jul and Dec 2022.

## Dark-necked Tailorbird

*Orthotomus atrogularis*

A total of 380 sighting records were reported between Jul and Dec 2022.

### **Ashy Tailorbird**

*Orthotomus ruficeps*

A total of 823 sighting records were reported between Jul and Dec 2022.

### **Rufous-tailed Tailorbird**

*Orthotomus sericeus*

A total of 82 sighting records were reported between Jul and Dec 2022.

### **Yellow-bellied Prinia**

*Prinia flaviventris*

A total of 175 sighting records were reported between Jul and Dec 2022.

### **Zitting Cisticola**

*Cisticola juncidis*

A total of 187 sighting records were reported between Jul and Dec 2022.

### **Black-browed Reed Warbler**

*Acrocephalus bistrigiceps*

The first record for the season was of a bird heard at Kranji Marshes on 4 Oct 2022. The next record also came from Kranji on 24 Oct 2022. The bulk of records began streaming in from Nov 2022 onwards.

### **Oriental Reed Warbler**

*Acrocephalus orientalis*

The first record for the season was of an individual spotted at Kranji Marshes on 2 Sep 2022. Subsequent sightings followed from Oct 2022 onwards.

### **Pallas's Grasshopper Warbler**

*Helopsaltes certhiola*

The first record came from an individual on 1 Oct 2022 at Kranji Marshes. Subsequent observations followed shortly within the same month.

## **Lanceolated Warbler**

*Locustella lanceolata*

The first record was of a single bird spotted on 8 Oct 2022 at Kranji Marshes. Birds were subsequently spotted from Nov 2022 onwards, with one record on 1 Nov 2022 from Tuas South Avenue 16, an individual on 17 Nov 2022 from the Fragrant Garden within Singapore Botanic Gardens, and a single bird on 20 Nov 2022 along Central Boulevard. There were only two additional records of this skulking species for the season – one on 1 Dec 2022 from around Tuas South Avenue 16, and another on 8 Dec 2022 at Lorong Halus Wetlands.

## **Sand Martin**

*Riparia riparia*

An individual recorded on 21 Nov 2022 from Mount Faber Park constituted the first record for the season. Between one to two individuals were subsequently seen from 3 Dec 2022 to 31 Dec 2022 mainly around Neo Tiew Harvest Lane.

## **Barn Swallow**

*Hirundo rustica*

A record from Sungei Buloh Wetland Reserve on 2 Jul 2022 followed by sightings from a variety of locations.

## **Pacific Swallow**

*Hirundo tahitica*

A total of 1,314 sighting records were reported between Jul and Dec 2022.

## **Red-rumped Swallow**

*Cecropis daurica*

The first of the season record came on 2 Oct 2022 from a bird spotted at Marina East Drive. Subsequent sighting records followed from 3 Oct 2022 onwards.

## **Asian House-Martin**

*Delichon dasypus*

The first record for the season came from four birds observed on 12 Oct 2022 from along Central Boulevard. Individuals continued to be seen at various locations such as Bukit Timah Nature Reserve, Central Catchment Reserves, Henderson Waves, Mount Faber Park, Sentosa and Neo Tiew until 18 Dec 2022.



### **Black-headed Bulbul**

*Brachypodius melanocephalos*

One bird was seen at Dairy Farm Nature Park on 17 Sep 2022, while another was seen at the Central Catchment on 22 Oct 2022.

### **Black-crested Bulbul**

*Rubigula flaviventris*

Between one and two birds were seen at Bukit Timah Nature Reserve from 20 Sep 2022 to 11 Dec 2022.

### **Red-whiskered Bulbul**

*Pycnonotus jocosus*

A total of 299 sighting records were reported between Jul and Dec 2022.

### **Light-vented Bulbul**

*Pycnonotus sinensis*

A single bird was seen at Changi Bay Point on 9 Aug 2022. Likely an escapee. This species is not in the NSS checklist.

### **Sooty-headed Bulbul**

*Pycnonotus aurigaster*

A total of 92 sighting records were reported between Jul and Dec 2022.

The birds were mainly concentrated in the east at locations such as Changi Bay Point, Coney Island, Lorong Halus Wetlands, Punggol Promenade, Seletar Aerospace Crescent, Sengkang Riverside Park, and Tampines Eco Green. Outlier locations include Gardens by the Bay (three birds on 19 Dec 2022), Neo Tiew Harvest Lane (single individual seen over five occasions between 10 Jul 2022 and 21 Dec 2022), and Singapore Botanic Gardens (two birds on 14 Jul 2022, and an individual on 29 Sep 2022).

### **Yellow-vented Bulbul**

*Pycnonotus goiavier*

A total of 2,482 sighting records were reported between Jul and Dec 2022.

## **Olive-winged Bulbul**

*Pycnonotus plumosus*

A total of 661 sighting records were reported between Jul and Dec 2022.

## **Cream-vented Bulbul**

*Pycnonotus simplex*

A total of 74 sighting records were reported between Jul and Dec 2022.

Sighting records have been concentrated within the Central Catchment and buffer nature parks. However, there were two sightings from Singapore Botanic Gardens on 10 Oct 2022 and 24 Dec 2022, as well as an unconfirmed record from Nanyang Technological University on 4 Sep 2022.

## **Red-eyed Bulbul**

*Pycnonotus brunneus*

A total of 184 sighting records were reported between Jul and Dec 2022.

Sighting records remain concentrated within the Central Catchment and buffer nature parks, as well as adjacent areas such as Goldhill Avenue and Malcolm Park (single bird on 24 Jul 2022).

## **Cinereous Bulbul**

*Hemixos cinereus*

There were four sighting records this season:

- 1 Nov 2022: single bird seen along MacRitchie Nature Trail;
- 20 Nov 2022: two birds seen at Sungei Buloh Wetland Reserve;
- 25 Nov 2022; unknown number heard from Chek Jawa, Pulau Ubin;
- 10 Dec 2022: single bird from Bukit Timah Nature Reserve.

## **Yellow-browed Warbler**

*Phylloscopus inornatus*

The first record for the season was of a single bird seen and heard on 26 Oct 2022 from Berlayer Creek Boardwalk. Birds were reported only from a small cluster of locations: Berlayer Creek Boardwalk from 26 to 29 Oct 2022, Singapore Botanic Gardens from 13 Nov 2022 to 11 Dec 2022, MacRitchie Reservoir Park on 30 Nov 2022, East Coast Park on 30 Dec 2022, and Pasir Ris Park on 31 Dec 2022.

## Eastern Crowned Warbler

*Phylloscopus coronatus*

An individual spotted on 3 Sep 2022 along Rifle Range Link foraging with a flock of Pin-striped Tit Babblers, *Mixornis gularis*, was this season's first record.

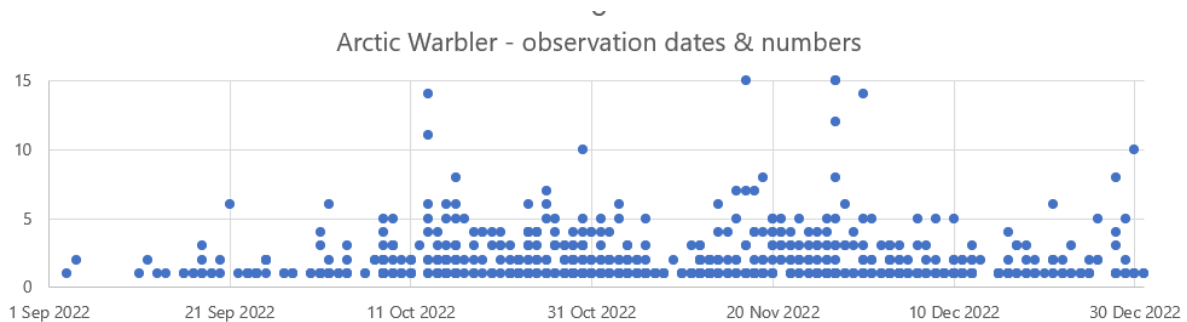
## Sakhalin Leaf Warbler

*Phylloscopus borealoides*

The first record of this season was an individual heard, and whose call was analysed, on 23 Nov 2022 along Tanglin Road by Dr Yong Ding Li. Records of an individual at MacRitchie Reservoir Park was first reported on 28 Nov 2022 and continued to be observed until 11 Dec 2022.

## Arctic Warbler

*Phylloscopus borealis*



An individual spotted on 3 Sep 2022 along Rifle Range Link constituted the season's first record. A total of 837 sighting records were reported between Jul and Dec 2022.

Fifteen birds were counted on 17 and 27 Nov 2022 at Singapore Botanic Gardens, while fourteen were seen on 13 Oct 2022 at Jurong Lake Gardens, and on 30 Nov 2022 at MacRitchie Reservoir Park. Perhaps, mid-Oct 2022 and end-Nov 2022 represented the peak migration period for the species.

## Swinhoe's White-eye

*Zosterops simplex*

A total of 497 sighting records were reported between Jul and Dec 2022.

## Pin-striped Tit-Babbler

*Mixornis gularis*

A total of 785 sighting records were reported between Jul and Dec 2022.

## Chestnut-winged Babbler

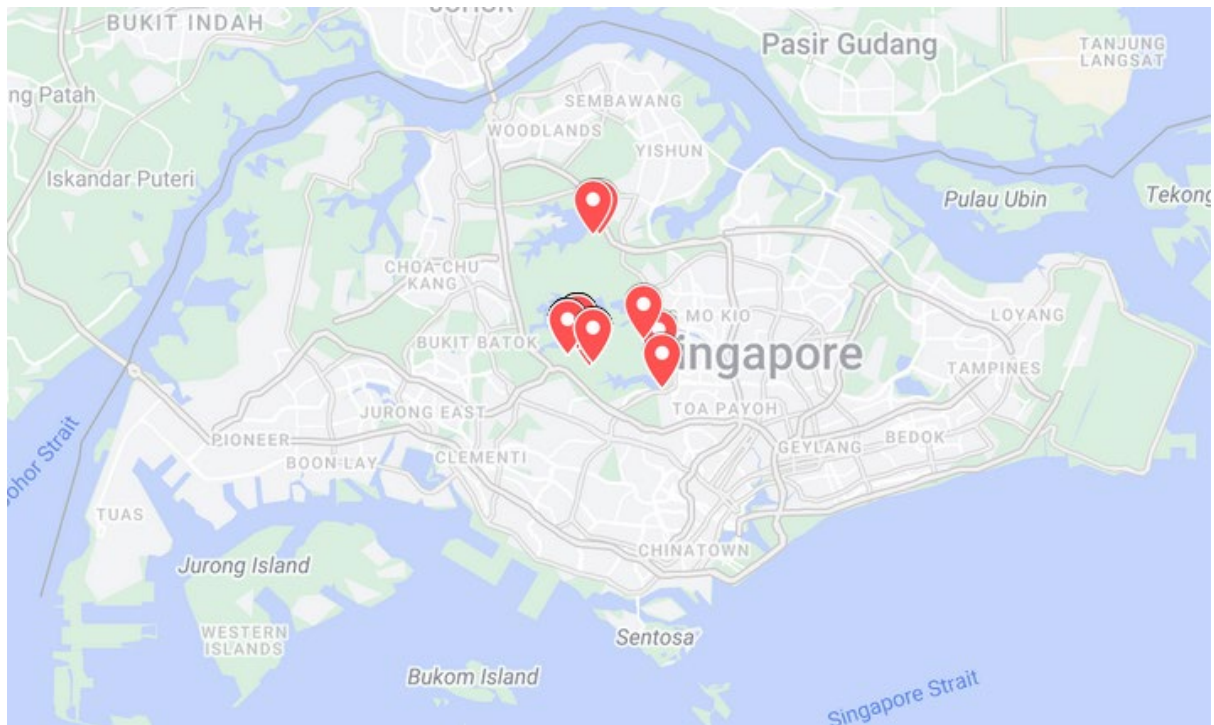
*Cyanoderma erythropterum*

This Babbler has been found only in few locations and in small numbers:

- Central Catchment Reserves: two records (31 Oct 2022 with two birds; 6 Dec 2022 with one bird);
- Mandai Track 7: one record (23 Jul 2022 with one bird);
- Upper Seletar Reservoir Park: five records (21 Jul 2022 with four birds; 24 Jul 2022 with 1 bird; 27 Jul 2022 with 2 birds; 30 Jul 2022 with two birds; 28 Dec 2022 with 2 birds).
- A record of two birds from Dairy Farm Nature Park on 12 Dec 2022.

## Short-tailed Babbler

*Pellorneum malaccense*

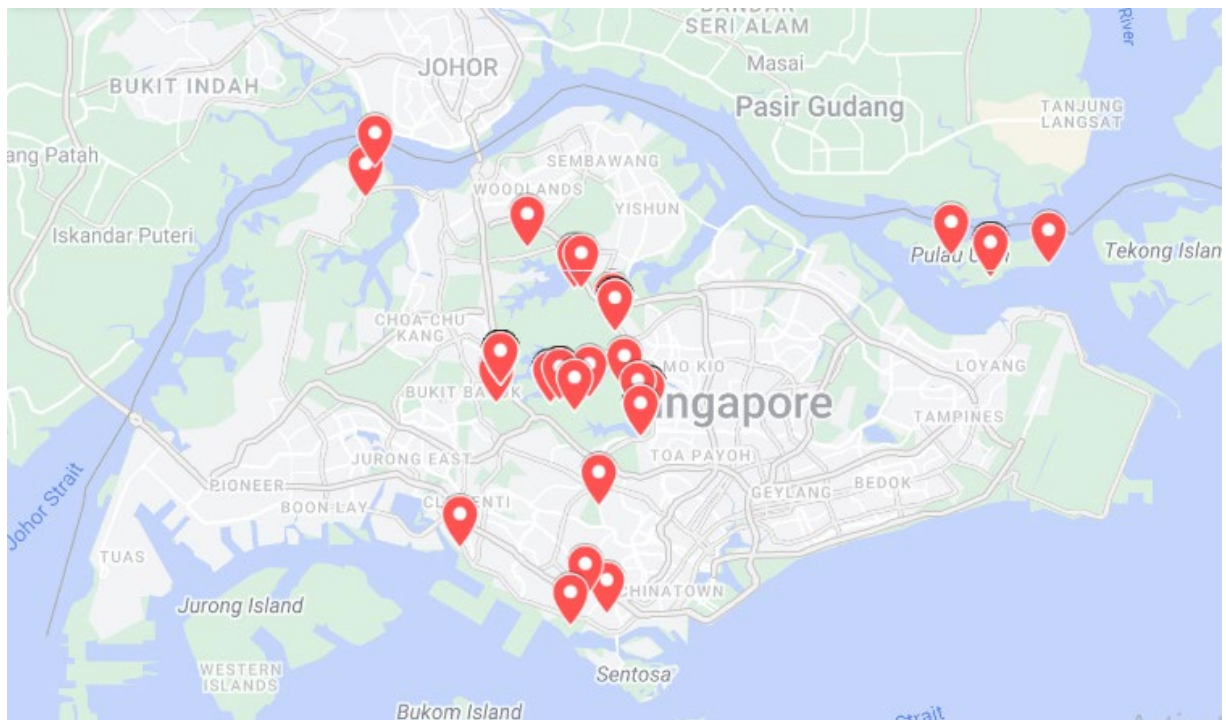


Map showing sighting locations of the Short-tailed Babbler between Jul and Dec 2022

A total of 63 sighting records were reported between Jul and Dec 2022. Most sightings remain clustered within the Central Catchment and buffer nature parks.

## Abbott's Babbler

*Malacocincla abbotti*



Map showing sighting locations of the Abbott's Babbler between Jul and Dec 2022

A total of 111 sighting records were reported between Jul and Dec 2022. Birds were seen within the Central Catchment and buffer nature parks, as well as at Berlayer Creek Boardwalk, Sungei Buloh Wetland Reserve, West Coast Park, and on Pulau Ubin.

## Chinese Hwamei

*Garrulax canorus*

A single bird was reported from Sentosa on 28 Dec 2022.

## White-crested Laughingthrush

*Garrulax leucolophus*

A total of 257 sighting records were reported between Jul and Dec 2022.

## Black-throated Laughingthrush

*Pterorhinus chinensis*

Up to three birds were spotted at Telok Blangah Hill Park between 18 Aug 2022 and 15 Nov 2022, while one individual was seen along the Rail Corridor near King Albert Park on 27 Nov 2022. There is a report from Gardens by the Bay, Bay East on 9 Oct 2022. This species is not listed in the NSS checklist.



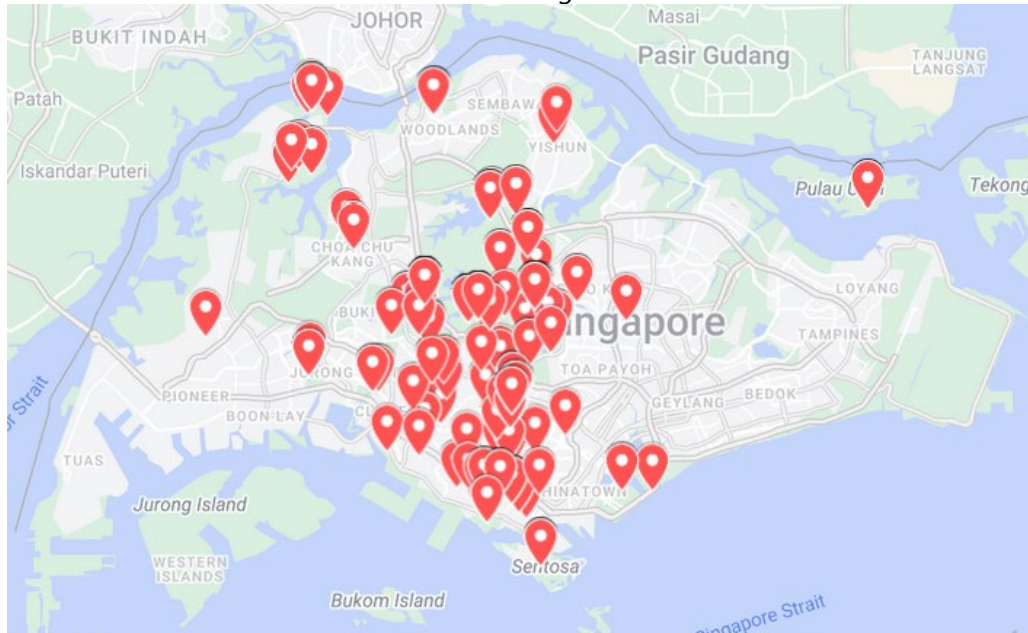
## Asian Glossy Starling

*Aplonis panayensis*

A total of 1960 sighting records were reported between Jul and Dec 2022.

## Common Hill Myna

*Gracula religiosa*



Map showing sighting locations of the Common Hill Myna between Jul and Dec 2022

A total of 770 sighting records were reported between Jul and Dec 2022. A total of 20 birds were seen on 17 Nov 2022 at Hindhede Nature Park, while 18 were counted on 19 Jul 2022 at Singapore Botanic Gardens. Other interesting high counts included 12 on 28 Aug 2022 at Bishan-Ang Mo Kio Park, and 10 from the Southern Ridges on 8 Dec 2022.

## Rosy Starling

*Pastor roseus*

Other records: A single bird was seen on 5 Dec 2022 at Laguna National Golf Resort by Matthew Sturgess.

## Daurian Starling

*Agropsar sturninus*

A total of 115 sighting records were reported between Jul and Dec 2022. Three birds were spotted on 30 Jul 2022 at Jurong Lake Gardens. The next record was of eight birds seen on 3 Sep 2022 at Sungei Buloh Wetland Reserve; followed by records from 7 Sep 2022 onwards. High numbers were reported from Nanyang Technological University on 4 Oct 2022, where about 5,000 birds were estimated from eight flocks, and on 13 Oct 2022, with about 6,000 birds were seen in 15 flocks over 40 minutes flying from northwest to southeast to roost in the evening. An estimated 1,000 birds were reported from Seletar Aerospace Road on 27 Sep 2022 to roost.

## Siamese Pied Starling

*Gracupica floweri*

Between one and two birds were seen at Tengah between 8 and 26 Nov 2022. This species is not in the NSS checklist.

## White-shouldered Starling

*Sturnia sinensis*

The first of the season records came from two birds on 28 Sep 2022 at Simei with Daurian Starlings. The birds continued to be seen until 3 Oct 2022. Other sighting records came from Tuas South Avenue 16, where eight were spotted on 17 Oct 2022, Jurong Lake Gardens where two were seen on 21-22 Oct 2022, Mount Faber Park on 29 Oct 2022 with one spotted, and from Rower's Bay Park, where between four and twenty birds were seen between 4 and 25 Dec 2022.

## Red-billed Starling

*Spodiopsar sericeus*



A Red-billed Starling photographed on 26 Dec 2022 at the Dempsey Hill area by Tan Gim Cheong.

A single female was spotted at Loewen Road at Dempsey Hill on 26 Dec 2022 and continued to be seen on 31 Dec 2022. This starling is a rare vagrant as this sighting constituted the fifth

record to date. The first record was an individual seen by Lim Kim Seng on 25 Dec 1993 at Lorong Halus. Subsequent sightings were recorded on 30 Nov 2013 at Gardens by the Bay by Daniel Wee, and on 27 Dec 2015 at Tampines Eco-Green by Alvin Seng. The fourth sighting was on 12 Dec 2021 from Turut Drive by Martin Kennewell.

### **Common Myna**

*Acridotheres tristis*

A total of 682 sighting records were reported between Jul and Dec 2022.

### **Javan Myna**

*Acridotheres javanicus*

A total of 3,083 sighting records were reported between Jul and Dec 2022.

### **Siberian Thrush**

*Geokichla sibirica*

The first record for the season was an individual spotted on 15 Oct 2022 at Dairy Farm Nature Park. Sighting records were clustered around Bukit Timah Nature Reserve (8 records; between 1-2 birds) from 9 Nov 2022 to 10 Dec 2022, one record of a single bird from Hindhede Nature Park on 27 Nov 2022, a record from Singapore Botanic Gardens of an individual on 13 Nov 2022, and Dairy Farm Nature Park (31 records, between 1-3 birds) from 15 Oct 2022 to 31 Dec 2022.

### **Orange-headed Thrush**

*Geokichla citrina*

A single bird was seen on the floor of the forest at Dairy Farm Nature Park on 25 Dec 2022.

### **Eyebrowed Thrush**

*Turdus obscurus*

Three individuals spotted on 20 Nov 2022 at Dairy Farm Nature Park constituted the first record for this season. Sighting records were clustered around Bukit Timah Nature Reserve (5 records; 1-2 birds), Hindhede Nature Park (2 records; 1-6 birds), Central Catchment Reserve (2 records; 2-6 birds), Dairy Farm Nature Park (11 records, 1-3 birds), Rifle Range Link (1 record, 6 birds), Rifle Range Nature Park (1 record, 1 bird), Singapore Botanic Gardens (14 records, 1-20 birds), and at Tuas South Avenue 16 (1 record, 1 bird), Windsor Nature Park (2 records, 1-6 birds).

## Dark-sided Flycatcher

*Muscicapa sibirica*

The first record for this season was an individual spotted on 3 Sep 2022 at Dairy Farm Nature Park. Birds continued to be seen until 30 Dec 2022. An individual was seen on St John's Island on 4 Dec 2022.

## Ferruginous Flycatcher

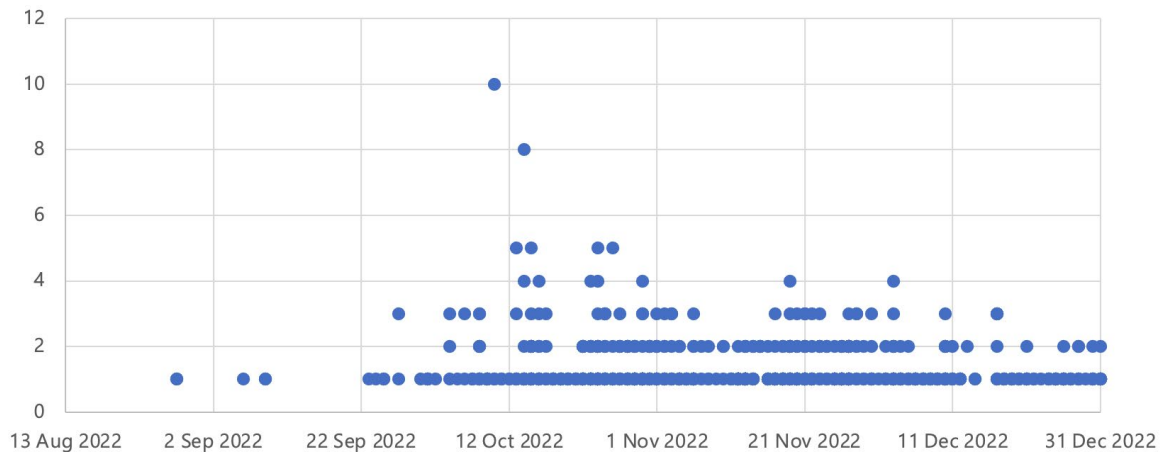
*Muscicapa ferruginea*

A foraging bird along Rifle Range Link on 27 Sep 2022 was the first record for this season. Other than the Central Catchment and buffer nature parks, as well as Singapore Botanic Gardens, migrating birds were seen at unexpected locations such as at Block 118 Jurong East Street 11 on 31 Oct 2022, along the canal at Changi Business Park on 21 Nov 2022, and a small patch of woods at Marina View on 13 Nov 2022 during their movement across the wintering grounds.

## Asian Brown Flycatcher

*Muscicapa dauurica*

Asian Brown Flycatcher - observation dates & numbers



Two single birds spotted within the Central Catchment Reserves on 28 Sep 2022 constituted the first records for this season. A total of 725 sighting records were reported between Jul and Dec 2022.



## Brown-breasted Flycatcher

*Muscicapa muttui*



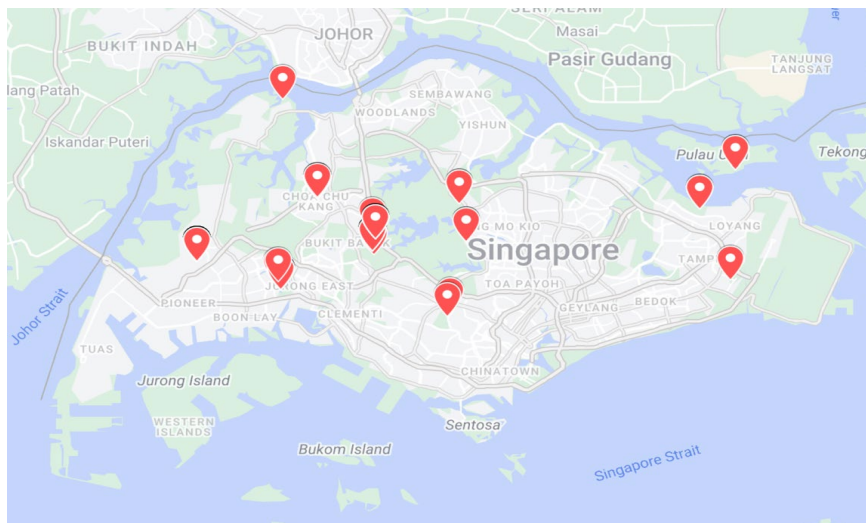
Brown-breasted Flycatcher photographed on 30 Oct 2022 at Dairy Farm Nature Park by Norman Wu.

Other records: A single bird was spotted by Norman Wu, Liu Jianbin and Norvin Ng on 30 Oct 2022 at Dairy Farm Nature Park. This was the first record of the species in Singapore.



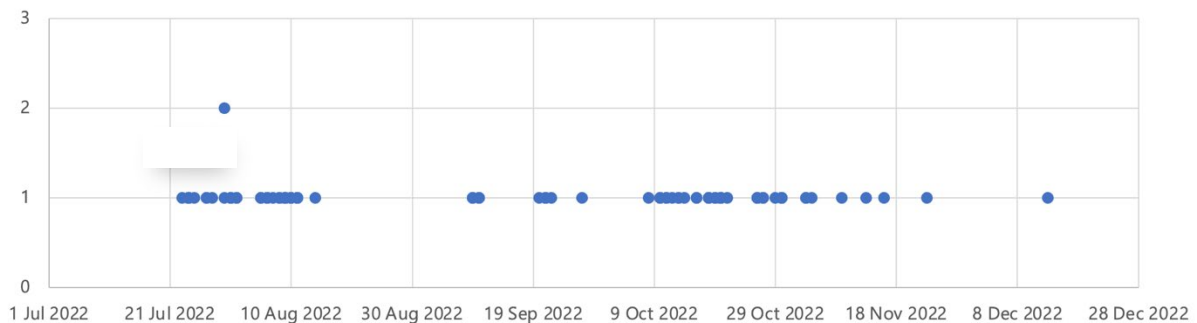
## Brown-streaked Flycatcher

*Muscicapa williamsoni*



Map showing sighting locations of the Brown-streaked Flycatcher between Jul and Dec 2022

### Brown-streaked Flycatcher - observation dates & numbers



The first record for this season came from a sighting of an individual on 23 Jul 2022 at Dairy Farm Nature Park. Two birds were seen on 30 Jul 2022 at Jurong Lake Gardens. The other sightings were of single birds.

## Oriental Magpie-Robin

*Copsychus saularis*

A total of 998 sighting records were reported between Jul and Dec 2022.

## White-rumped Shama

*Copsychus malabaricus*

A total of 80 sighting records were reported between Jul and Dec 2022. Birds were mostly reported from Central Catchment and buffer nature parks, as well as from Pulau Ubin. There were three records from outside the usual core Shama areas. An individual was reported from Changi Bay Point on 29 Aug 2022; one bird was seen here between 29 April 2022 and 4 June 2022. Another individual was reported on 30 Aug 2022 at Sungei Buloh Wetland Reserve, while a single bird was seen on 11 Dec 2022 from Tampines Eco-Green.

## Chinese Blue Flycatcher

*Cyornis glaucicomans*



Chinese Blue Flycatcher photographed on 29 Oct 2022 at Dairy Farm Nature Park by Joseph Lim.

A single male was spotted on 29 Oct 2022 within Dairy Farm Nature Park.

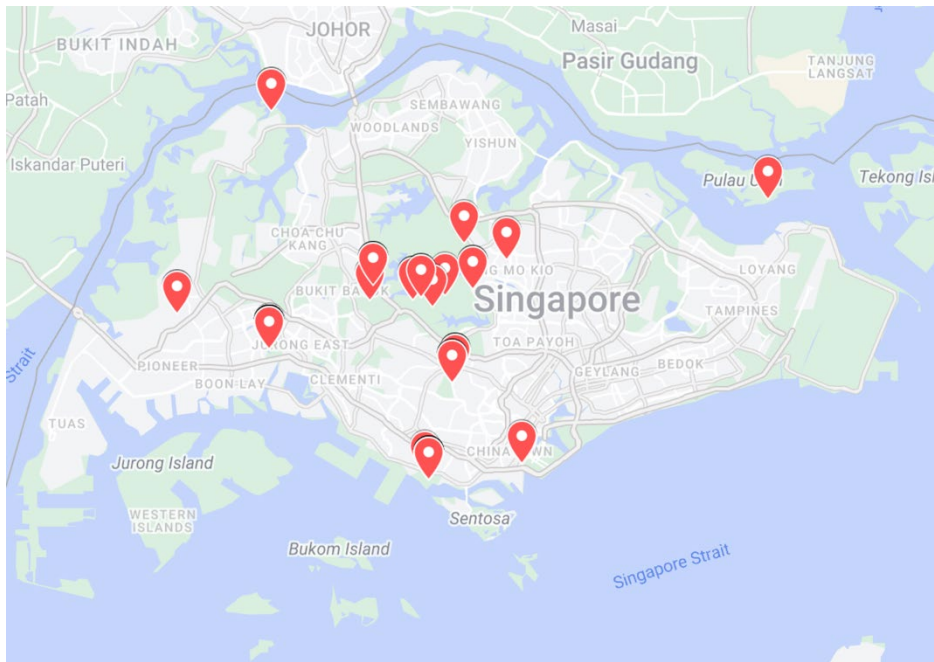
## Mangrove Blue Flycatcher

*Cyornis rufigastra*

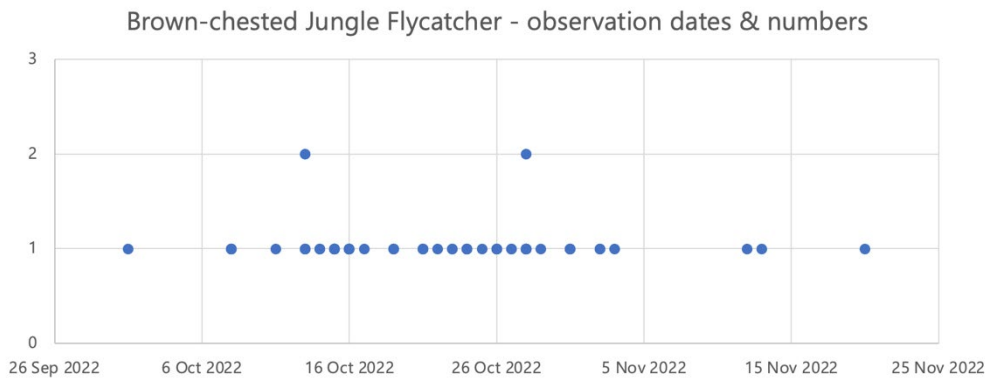
Two birds were seen on 24 Oct 2022 at Pulau Ubin.

## Brown-chested Jungle Flycatcher

*Cyornis brunneatus*



Map showing sighting locations of the Brown-chested Jungle Flycatcher between Jul and Dec 2022



An individual spotted on 1 Oct 2022 within the Central Catchment Reserves constituted the first record for this season. One individual was spotted on 24 Oct 2022 at the Singapore Chinese Cultural Centre along Shenton Way.

Other records: an individual was spotted at Singapore Botanic Gardens around 15-16 Oct 2022.

## Zappey's Flycatcher

*Cyanoptila cumatilis*



Zappey's Flycatcher photographed on 23 Nov 2022 at Tampines Eco Green by Maricel A Cabanero.

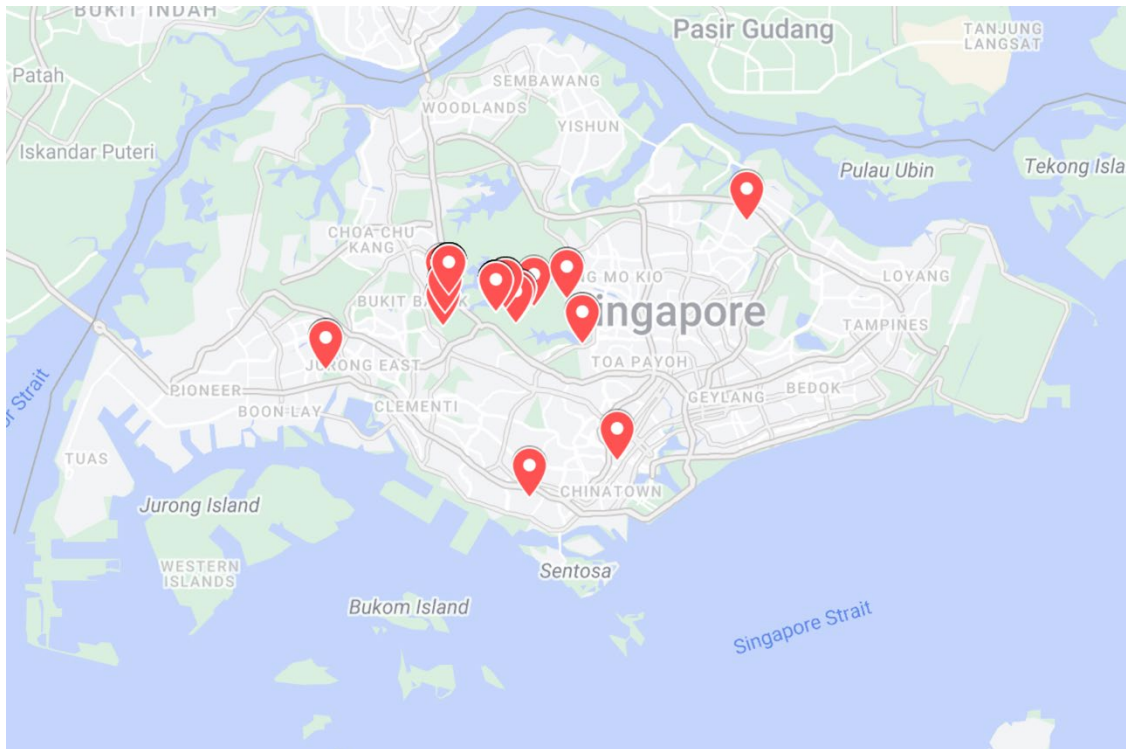
Individual males were spotted at various locations across Singapore between 21 Nov 2022 and 27 Nov 2022. Indeterminate individual *Cyanoptila* were seen from 22 Nov 2022 onwards, until 24 Dec 2022. The first record for this season was a male spotted within Singapore Botanic Gardens on 21 Nov 2022.

Other records: a single male was reported on 23 Nov 2023 at Tampines Eco Green by Maricel Cabanero. Another male was photographed on 26 Nov 2022 at Telok Blangah Hill Park by Con Foley.



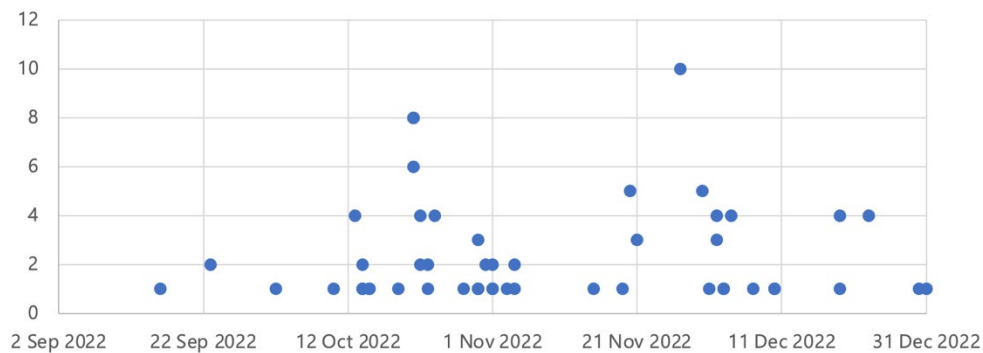
## Siberian Blue Robin

*Larvivora cyane*



Map showing sighting locations of the Siberian Blue Robin between Jul and Dec 2022

### Siberian Blue Robin - observation dates & numbers



The first record for this season was an individual spotted on 16 Sep 2022 from within the Central Catchment Reserves. A high count of eight birds was registered on 21 Oct 2022 from the Central Catchment, while ten birds were counted from several trails within Dairy Farm Nature Park. Incidentally, an individual was spotted on 10 Oct 2022 at Fort Canning Park, while an observer reported that a single bird flew into his apartment on 4 Nov 2022 at Compassvale Street.

## Yellow-rumped Flycatcher

*Ficedula zanthopygia*

An individual spotted on 27 Aug 2022 at Pasir Ris Park was the first record for this season. A total of 265 sighting records were reported between Jul and Dec 2022. A high count of six birds was recorded on 8 Oct 2022 from Jurong Lake Gardens, while five birds were recorded



around Jalan Wat Siam on Pulau Ubin on 30 Oct 2022. Two males were singing sub-songs while under observation.

### **Green-backed Flycatcher**

*Ficedula elisae*

A single individual heard on 27 Oct 2022 within Bukit Timah Nature Reserve was the first record for this season. The next record came from another bird heard singing on 20 Nov 2022 in the Rainforest Walk within Singapore Botanic Gardens. An adult female seen on 21 Nov 2022 in Singapore Botanic Gardens was the first confirmed sighting record. Individuals continued to be seen until 31 Dec 2022. Locations where the flycatcher was recorded included Bukit Timah Nature Reserve (1 record), Central Catchment Reserves (2 records), Dairy Farm Nature Park (12 records), Singapore Botanic Gardens (9 records) and Windsor Nature Park (1 record).

### **Mugimaki Flycatcher**

*Ficedula mugimaki*

A male in a small mixed flock foraging inside Bukit Timah Nature Reserve on 6 Nov 2022 was this season's first record. More birds were subsequently seen from 16 Nov 2022 onwards, and persisted until the end of the year. A total of 132 sighting records were reported between Jul and Dec 2022. High counts of six birds were reported on 25 and 26 Nov 2022 from Dairy Farm Nature Park.

### **Taiga Flycatcher**

*Ficedula albicilla*



Taiga Flycatcher photographed on 28 Oct 2022 at Berlayer Creek by Ho Siew Mun.

A single bird was seen at Berlayer Creek Boardwalk from 24 to 30 Oct 2022, while another was reported on 1 Nov 2022 from Jurong Lake Gardens.

### **Daurian Redstart**

*Phoenicurus aureoreus*



Daurian Redstart photographed on 28 Oct 2022 at Jalan Mat Jambol by Danny Khoo.

A single female, first reported on 2 Nov 2022 at the vicinity of Jalan Mat Jambol, continued to be seen until 20 Nov 2022.

### **Blue Rock-Thrush**

*Monticola solitarius*

The first record for this season was of a single bird spotted on 10 Sep 2022 at the Pinnacle@Duxton. Up to two birds continued to be seen at the Pinnacle@Duxton until 29 Dec 2022, as well as at the high rise apartments around Dawson between 28 and 31 Dec 2022.

### **Amur Stonechat**

*Saxicola stejnegeri*



Amur Stonechat photographed on 23 Nov 2022 at Transview Golf Course by Maricel A. Cabanero.

A single individual was seen at the former Transview Golf Course off Dover Road from 21 to 26 Nov 2022.

### **Orange-bellied Flowerpecker**

*Dicaeum trigonostigma*

A total of 299 sighting records were reported between Jul and Dec 2022.

### **Scarlet-backed Flowerpecker**

*Dicaeum cruentatum*

A total of 929 sighting records were reported between Jul and Dec 2022.

### **Ruby-cheeked Sunbird**

*Chalcoparia singalensis*

A single bird was recorded from Sungei Buloh Wetland Reserve on 18 Jul 2022.

### **Brown-throated Sunbird**

*Anthreptes malacensis*

A total of 1,046 sighting records were reported between Jul and Dec 2022.

### **Van Hasselt's Sunbird**

*Leptocoma brasiliana*

Birds were recorded from Pulau Ubin (4 records), the Central Catchment and buffer parks (14 records) between 1 Jul 2022 and 12 Nov 2022.

### **Copper-throated Sunbird**

*Leptocoma calcostetha*

Birds were reported from the usual locations of Pulau Ubin and Sungei Buloh Wetland Reserve. Up to nine individuals were counted at Sungei Buloh on 31 Aug 2022 (six males and three females) and 7 Dec 2022.

### **Olive-backed Sunbird**

*Cinnyris jugularis*

A total of 1,664 sighting records were reported between Jul and Dec 2022.



## Crimson Sunbird

*Aethopyga siparaja*

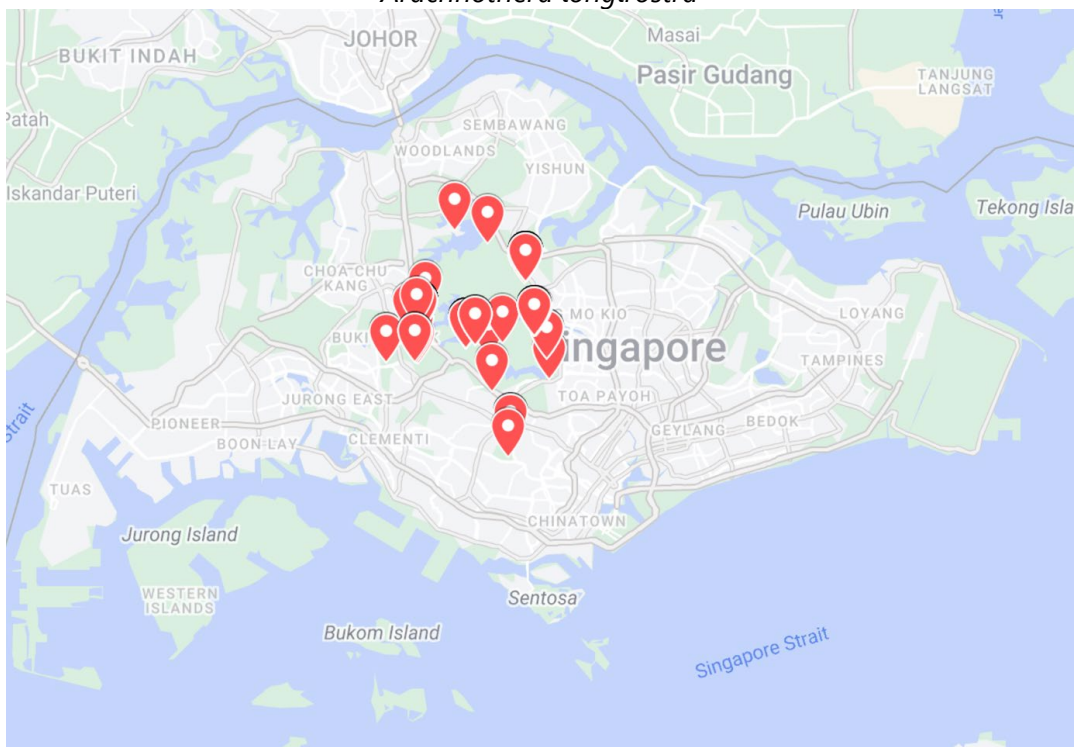


Map showing sighting locations of Crimson Sunbird between Jul and Dec 2022

A total of 667 sighting records were reported between Jul and Dec 2022.

## Little Spiderhunter

*Arachnothera longirostra*



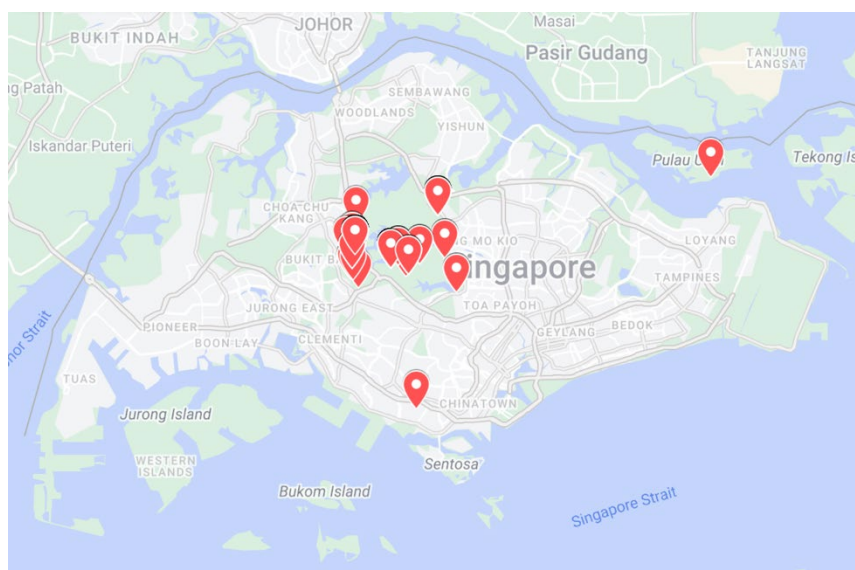
Map showing sighting locations of Little Spiderhunter between Jul and Dec 2022



Birds continue to be reported from the Central Catchment and buffer nature parks. A total of 141 sighting records were reported between Jul and Dec 2022.

### **Asian Fairy-Bluebird**

*Irena puella*



*Map showing sighting locations of Asian Fairy Bluebird between Jul and Dec 2022*

A total of 209 sighting records were reported between Jul and Dec 2022. Sightings remain clustered around the Central Catchment and buffer nature parks, the Southern Ridges, and a record from Pulau Ubin.

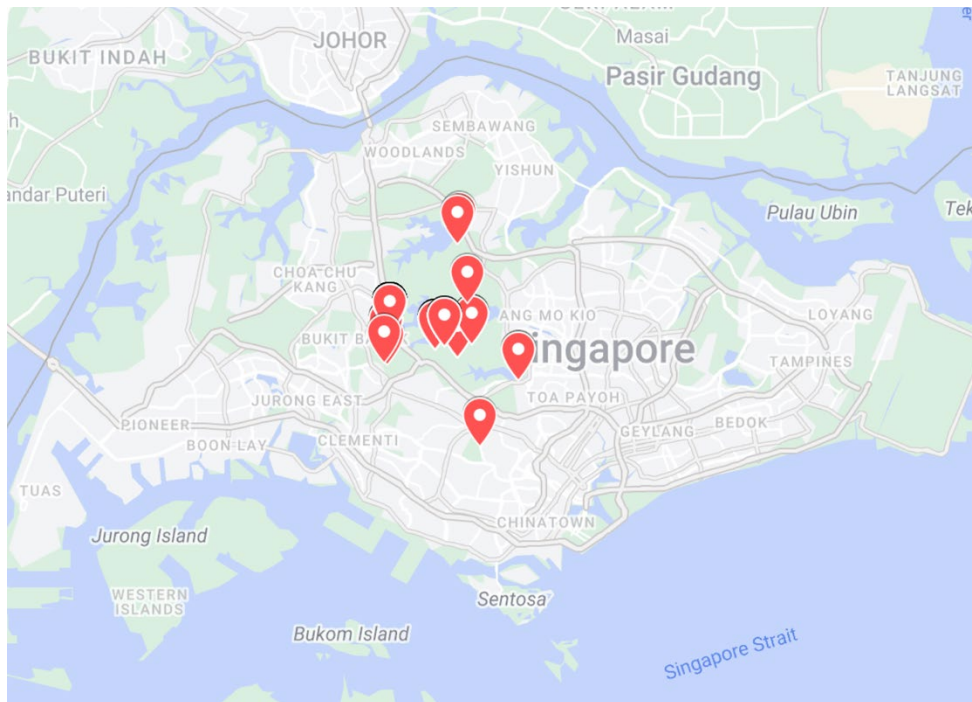
### **Lesser Green Leafbird**

*Chloropsis cyanopogon*

A female was seen at Dairy Farm Nature Park on 29 Jul 2022 in a fruiting tree.

## Blue-winged Leafbird

*Chloropsis cochinchinensis*



Map showing sighting locations of Blue-winged Leafbird between Jul and Dec 2022

A total of 73 sighting records were reported between Jul and Dec 2022. Records were centred around the Central Catchment and buffer nature parks, with one record from Singapore Botanic Gardens of a single bird spotted on 14 Jul 2022.

## Village Weaver

*Ploceus cucullatus*

A single bird was seen around Tuas South Avenue on 22 Oct 2022. This species is not in the NSS checklist.

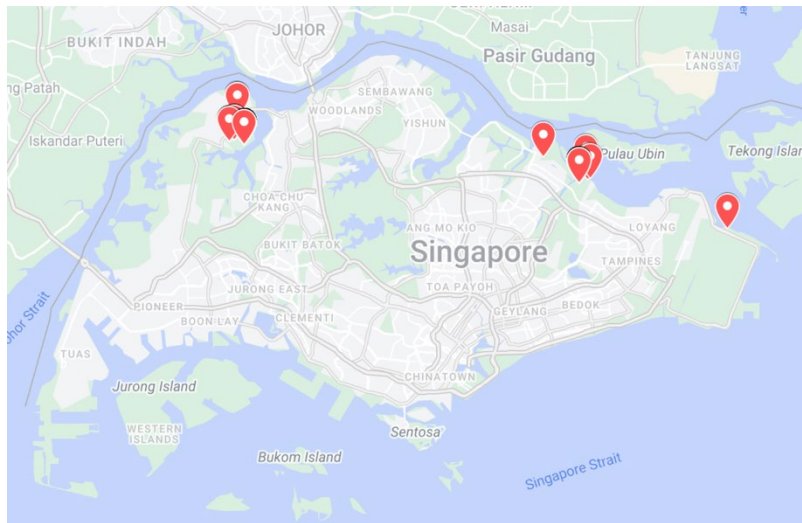
## Black-headed Weaver

*Ploceus melanocephalus*

Birds were recorded from Lorong Halus Wetland between 4 and 8 Sep 2022. This species is not in the NSS checklist.

## Golden-backed Weaver

*Ploceus jacksoni*

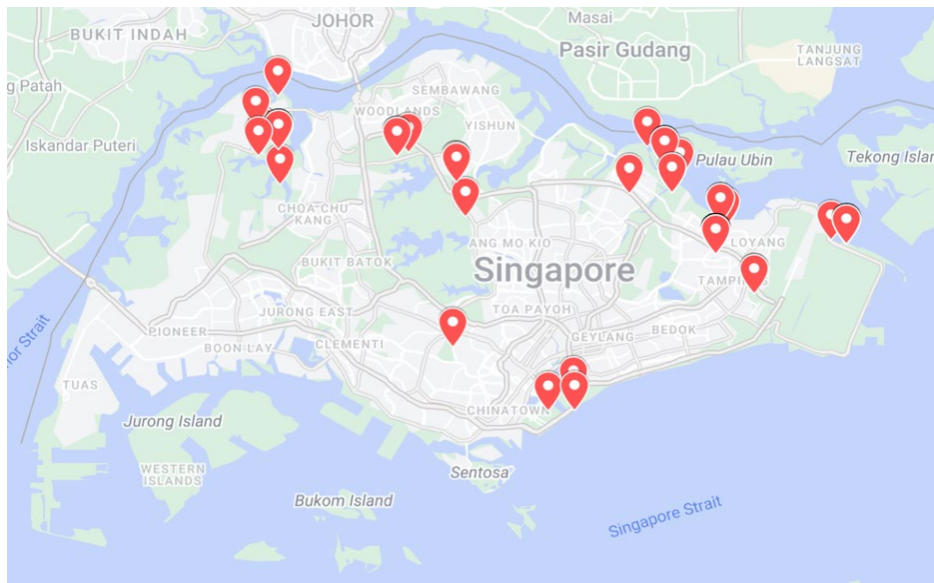


Map showing sighting locations of the Golden-backed Weaver between Jul and Dec 2022

A total of 67 sighting records were reported between Jul and Dec 2022. This species is not in the NSS checklist.

## Baya Weaver

*Ploceus philippinus*

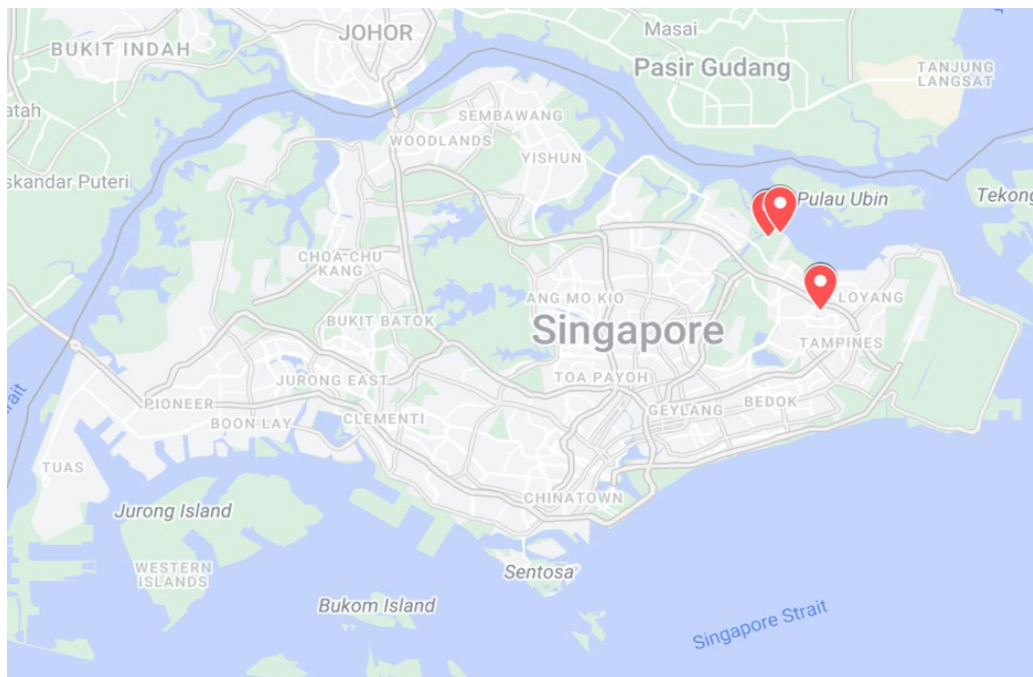


Map showing sighting locations of the Baya Weaver between Jul and Dec 2022

A total of 66 sighting records were reported between Jul and Dec 2022.

## Asian Golden Weaver

*Ploceus hypoxanthus*



Map showing sighting locations of the Asian Golden Weaver between Jul and Dec 2022

There were five sighting records for this season. This species is not in the NSS checklist.

## Zanzibar Red Bishop

*Euplectes nigroventris*

At least one male and female were reported from Changi Bay Point between 6 to 11 Aug 2022. Up to four birds were seen around Tuas South Avenue 16 between 10 Aug 2022 and 25 Dec 2022. This species is not in the NSS checklist.



## **Yellow-crowned Bishop**

*Euplectes afer*



Yellow-crowned Bishop photographed on 8 Nov 2022 at Tuas South by Andy Lee.

Up to eleven individuals were seen from around Tuas South Avenue 16 between 8 Oct 2022 and 25 Dec 2022. This species is not in the NSS checklist.

## **Bronze Mannikin**

*Spermestes cucullata*

Three birds were seen among a flock of native munias at Satay by the Bay on 19 Jul 2022. An individual was spotted at Lorong Halus Wetland on 3 Sep 2022. This species is not in the NSS checklist.

## **Scaly-breasted Munia**

*Lonchura punctulata*

A total of 292 sighting records were reported between Jul and Dec 2022.



## **White-rumped Munia**

*Lonchura striata*

Between one and five birds were recorded at Telok Blangah Hill Park between 7 Jul 2022 and 11 Nov 2022.

## **Javan Munia**

*Lonchura leucogastroides*

A total of 112 sighting records were reported between Jul and Dec 2022.

## **Chestnut Munia**

*Lonchura atricapilla*

A total of 151 sighting records were reported between Jul and Dec 2022.

## **White-headed Munia**

*Lonchura maja*

A total of 94 sighting records were reported between Jul and Dec 2022.

## **Orange-cheeked Waxbill**

*Estrilda melpoda*

A total of 64 sighting records were reported between Jul and Dec 2022. This species is not in the NSS checklist.

## **Common Waxbill**

*Estrilda astrild*

A total of 91 sighting records were reported between Jul and Dec 2022. This species is not in the NSS checklist.

## **Black-rumped Waxbill**

*Estrilda troglodytes*

Up to three birds were seen at Bishan-Ang Mo Kio Park between 13 and 28 Aug 2022. Up to two were seen at the Changi Bay Point on 10 and 14 Aug 2022, while four were seen at the canal along Changi Business Park on 22 Jul 2022. This species is not in the NSS checklist.

## **Crimson-rumped Waxbill**

*Estrilda rhodopyga*

Up to five birds were mainly seen at Changi Bay Point between 12 and 14 Aug 2022. This species is not in the NSS checklist.

## **Zebra Waxbill**

*Amandava subflava*

An individual was seen on 4 Nov 2022 from Tuas South Avenue 5. This species is not in the NSS checklist.

## **Red Avadavat**

*Amandava amandava*

A single bird was seen on 9 Jul 2022 along West Coast Drive. Up to nine birds were seen around Tuas South Avenue 16 between 13 Oct 2022 and 17 Nov 2022.

## **Pin-tailed Whydah**

*Vidua macroura*

Birds were reported at Changi Bay Point between 11 and 17 Aug 2022. An individual was recorded from Gardens by the Bay on 11 Oct 2022. This species is not in the NSS checklist.

## **Eurasian Tree Sparrow**

*Passer montanus*

A total of 626 sighting records were reported between Jul and Dec 2022.

## **Forest Wagtail**

*Dendronanthus indicus*

The first record for this season came from a bird spotted within the Central Catchment on 16 Sep 2022. Up to four birds were spotted at the large communal wagtail roost at Block 153, Yishun Street 11 between 18 Sep 2022 and 30 Oct 2022.

## **Grey Wagtail**

*Motacilla cinerea*

The first record for this season was an individual seen along the canal at Changi Business Park on 28 Aug 2022. Up to approximately 200 birds were seen roosting at the large communal wagtail roost at Block 153, Yishun Street 11 between 9 Sep 2022 and 30 Oct 2022.

## **Eastern Yellow Wagtail**

*Motacilla tschutschensis*

The first record for this season came from a bird seen on 3 Sep 2022 at Lim Chu Kang Lane 3. Up to nine birds were counted at the large communal wagtail roost at Block 153, Yishun Street 11 on 2 Oct 2022. A high count of 100 birds was reported from Neo Tiew Harvest Lane on 3 Dec 2022, while 42 birds were seen on 17 Sep 2022 at Sembawang Road around Simpang Kiri.

## **White Wagtail**

*Motacilla alba*

The first record for this season came from a bird seen on 2 Aug 2022 at Tuas South Avenue 9. A single bird was seen at the large communal wagtail roost at Block 153, Yishun Street 11 between 20 and 23 Sep 2022.

## **Paddyfield Pipit**

*Anthus rufulus*

A total of 407 sighting records were reported between Jul and Dec 2022.

## **White-rumped Seedeater**

*Crithagra leucopygia*

An individual was seen on 4 Nov 2022 at Westridge Walk. This species is not in the NSS checklist.

## **Yellow-fronted Canary**

*Crithagra mozambica*

Up to four were seen at Gardens by the Bay (including Bay East) between 30 Aug 2022 and 27 Dec 2022. Two were spotted on 5 Jul 2022 at Tanah Merah Ferry Road, while two were seen at Bukit Timah Road on 4 Aug 2022. This species is not in the NSS checklist.

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