

# Hong Kong Firefly Survey Team

2023- 2024      A BRIEF REPORT

---



# Recruitment

2023 JUNE 28 TO AUGUST 3

A recruitment poster for the Hong Kong Firefly Survey Team. The top half has a dark background with yellow text. The bottom half features a close-up photograph of a firefly on a green leaf, with its light glowing. The text is organized into sections: Title, Subtitle, Missions, Entry requirements, 1 year program & commitments, Team Leader, When, Details, and Join.

**Hong Kong Firefly Survey Team**  
**香港螢火蟲調查隊**  
4th Recruitment 第四期招募 (2023-2024)

**Missions**

1. For conservation purpose, conduct persistent and systematic surveys on Hong Kong fireflies;
2. To bring together people involved in firefly conservation and research to exchange knowledge;
3. For advancement and diffusion of knowledge in Hong Kong fireflies.

**1 year program & commitments**

- 4 lectures (100% attendance)
- 6 practical trainings (~60% attendance)
- 5 additional firefly surveys
- 2 evaluation meetings (50% attendance)

**Team Leader**

Yi J Vor

- Hon. Treasurer, Fireflyers International Network
- Red List Authority Coordinator, IUCN SSC Firefly Specialist Group

**Entry requirements**

- 18 years of age or older
- Strong interest on fireflies and conservation;
- Macro-photography and videography skills;
- Preferably with education background of zoology, entomology and/or ecology
- Enjoy working at night in the wild;
- Able to walk fast and far on trails
- Familiar with trails in Hong Kong
- HKES members have priority

**When**

- 2023 July to 2024 June

**Details**

- <http://hkentsoc.org/hongkongfireflysurvey/>

**Join (Deadline August 1, 2023)**

- <https://forms.gle/5p5hiGHnk2Voz4Jf?>

**Target: 5-10 participants**

**Number of applications received: 39**

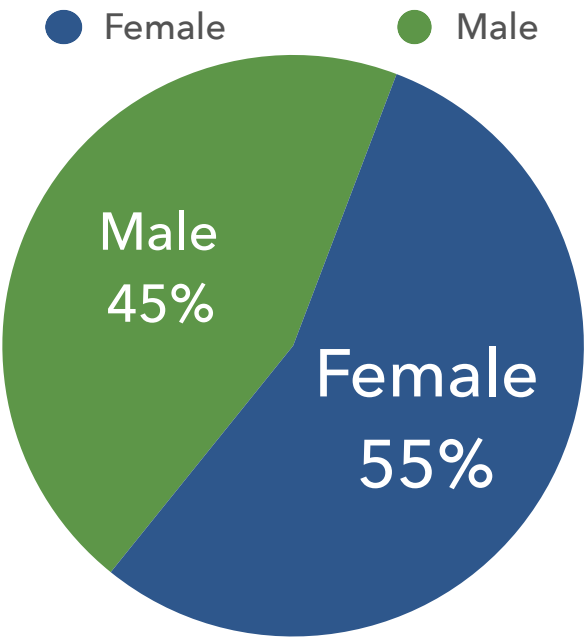
**Selection criteria:**

- **relevance of Occupation**
- **knowledge and experience on fireflies and conservation**
- **education background**
- **experience and skills of night survey in the wild**
- **macro-photography and videography skills**
- **experience on trails and body fitness**
- **HKES membership**

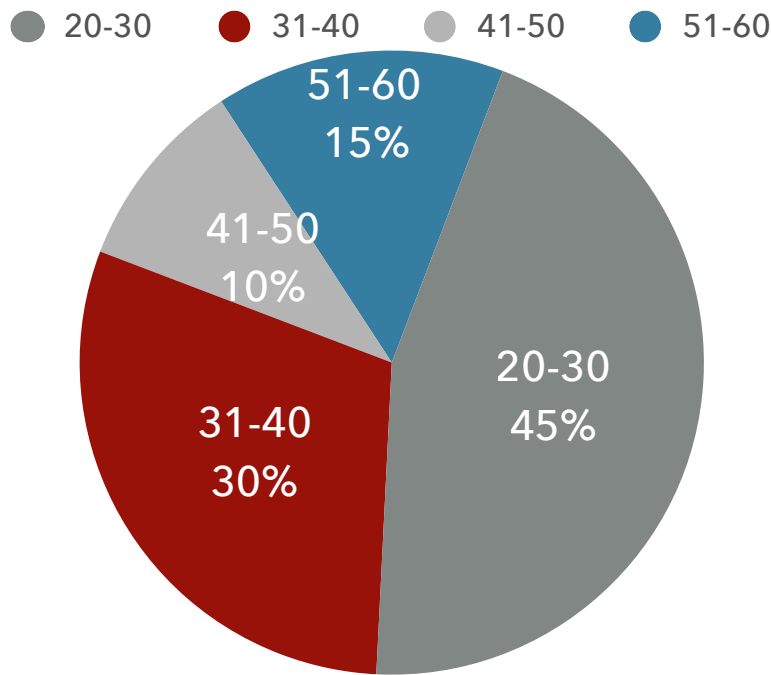
**Number of members recruitment: 20**

# COMPOSITION OF FIREFLY SURVEY TEAM MEMBERS

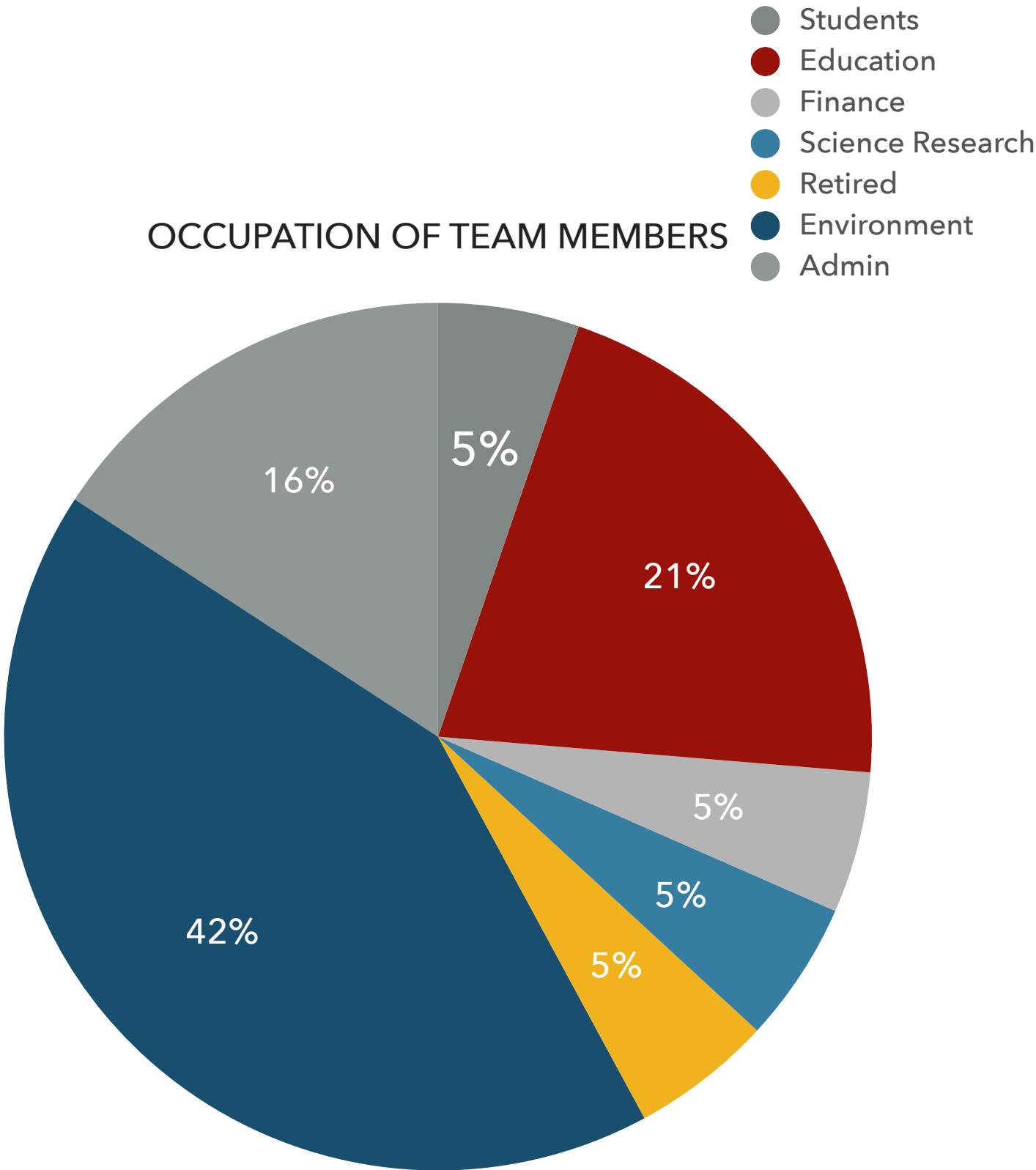
GENDER OF TEAM MEMBERS



AGE OF TEAM MEMBERS



OCCUPATION OF TEAM MEMBERS





# LECTURES

---

## Lecture 1 - August 9, 2023:

- Introduction to the program
- Introduction to Fireflies
- Firefly morphology
- Firefly life history and seasonality

## Lecture 2 - August 16, 2023:

- Firefly life history and seasonality (conti.)
- Sex Communication
- Flash Patterns
- Habitats
- Local restrictedness
- Firefly Studies

## Lecture 3 - August 23, 2023:

- Classification & Nomenclature
- Rhagophthalmidae
- Cyphonocerinae, Ototretinae
- Lampyrinae

## Lecture 4 - August 30, 2023:

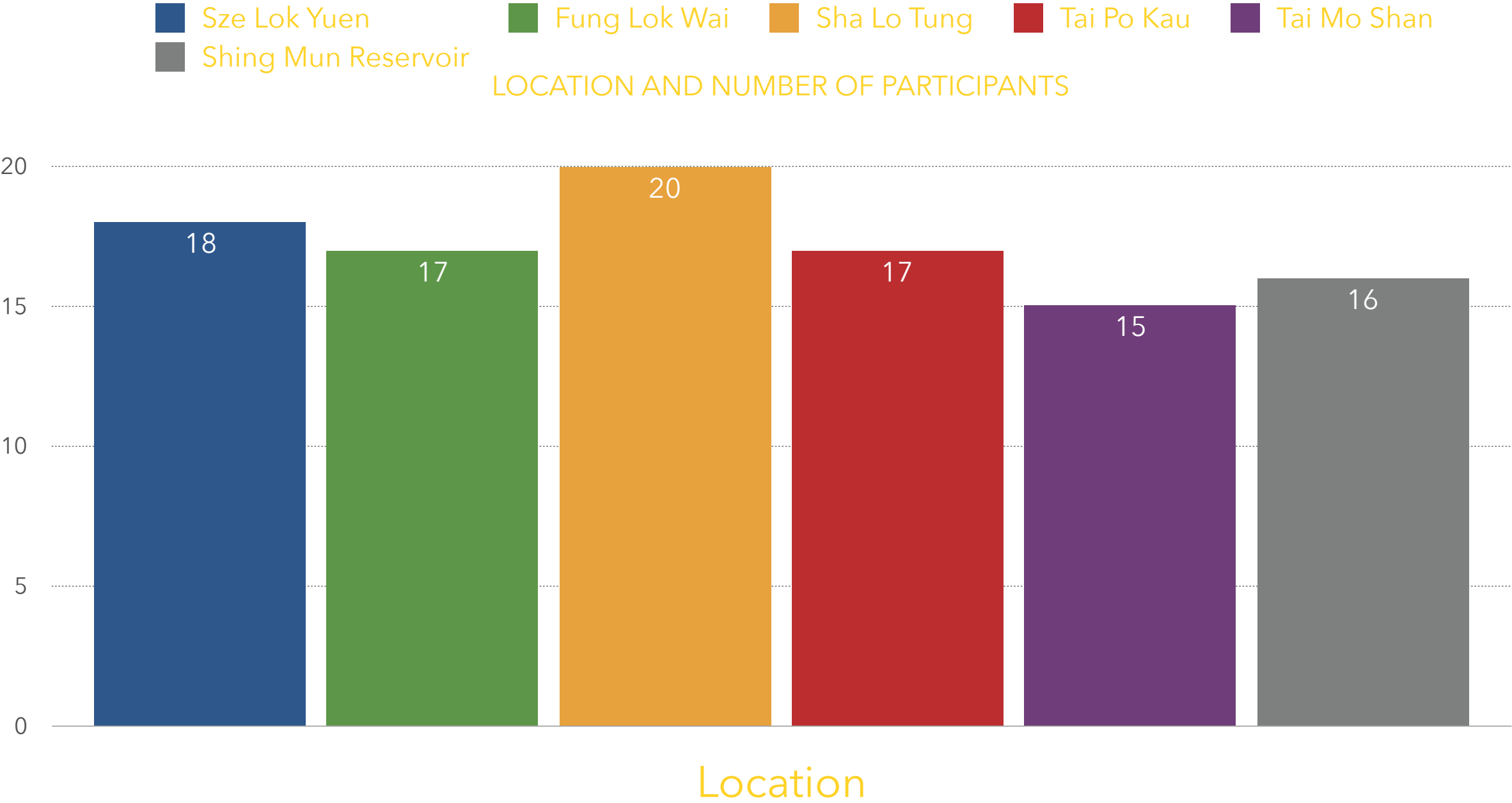
- Luciolinae
- Examination
- Arrangement of practical trainings



**Attendance requirement for every lecture: 100% for all trainees**

**Actual attendance: 100% for all trainees**

PRACTICAL TRAININGS - AUGUST TO DECEMBER 2023



**Attendance requirement for practical trainings: 4 out of 6 for each trainee**

**Average number of practical trainings attended per trainee: 5.2**

# Field Survey Mode P1 - Monitoring population trend of *Rhagophthalmus hiemalis*

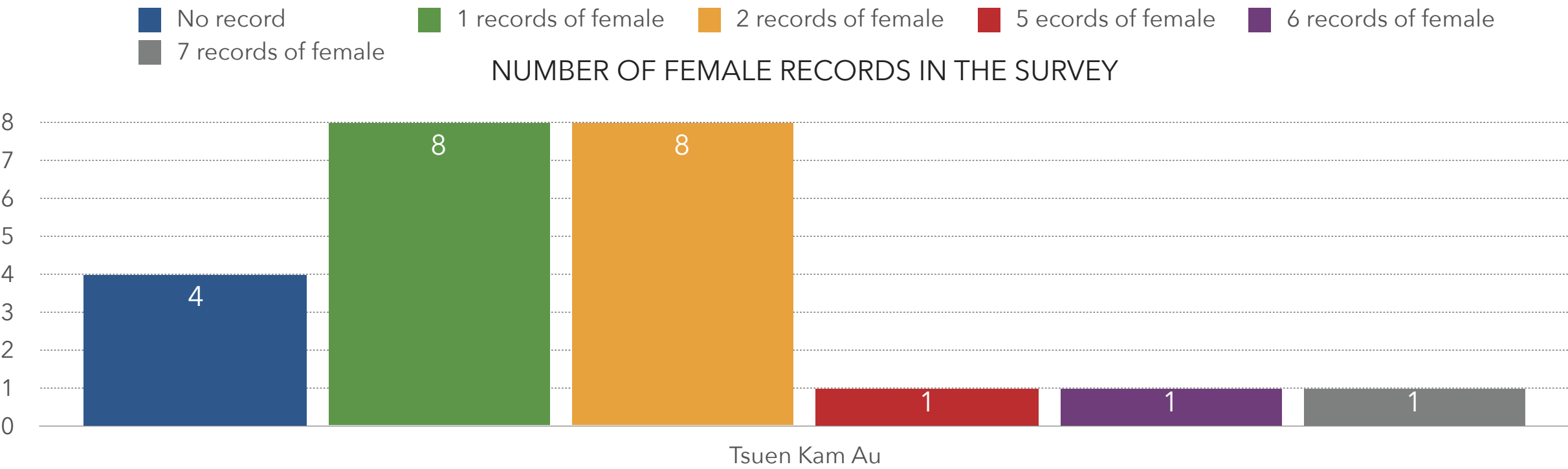
**Sites:** Tsuen Kam Au

**Survey period:** December 2023 - February 2024

**Number of person participated:** 18

**Total number of surveys:** 23

**Results:** Out of the 23 surveys, 4 surveys have no record of the target, 8 surveys have 1 record of *Rhagophthalmus hiemalis* female adult in each; 8 surveys have 2 records of *Rhagophthalmus hiemalis* female adult in each ; 1 surveys have 5, 6, 7 records of *Rhagophthalmus hiemalis* female adult in each respectively. In the survey done in Dec 2022 to Feb 2023, 50% of the surveys have no record of *Rhagophthalmus hiemalis* female adult. The occurrence rate is slightly increased.



## Survey Mode R1 - Range of *Rhagophthalmus hiemalis*

---

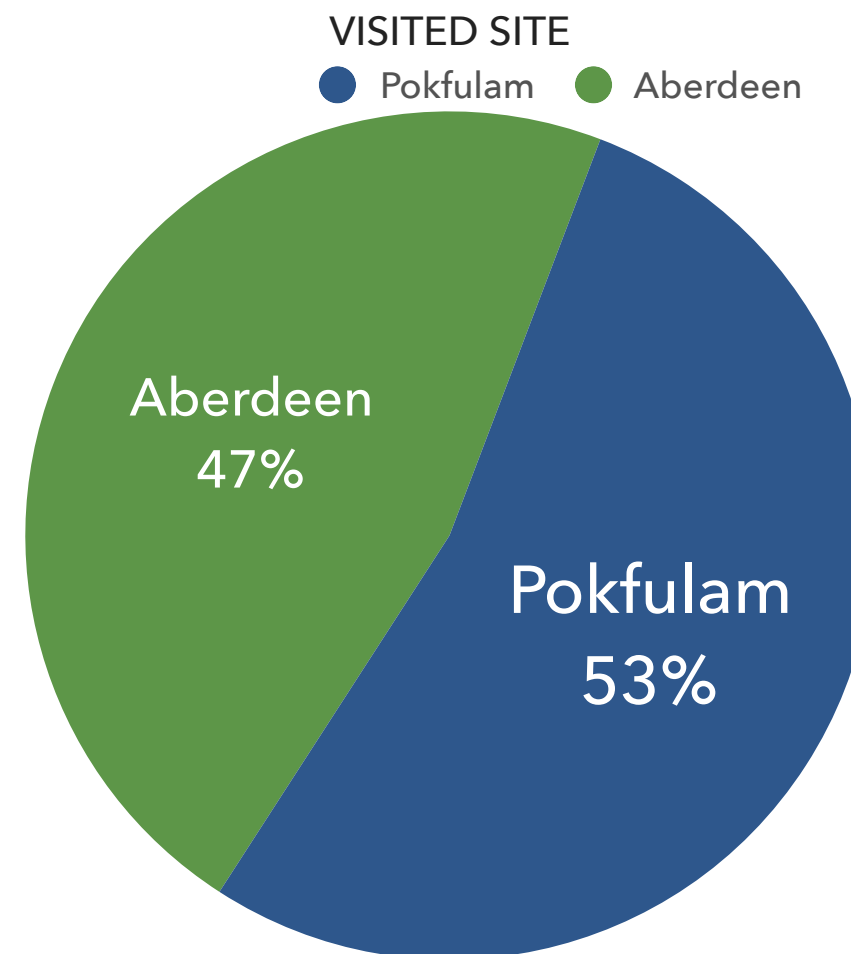
**Sites:** Similar habitats in Pokfulam Country Park and Aberdeen Country Park.

**Survey period:** December 2023 - February 2024

**Number of person participated:** 15

**Total number of surveys:** 15

**Results:** The target species is recorded on December 27, 2023 in Pokfulam, the second known occurrence site in Hong kong Island.



# Field Survey Mode P2 - Monitoring population trend of *Oculogryphus chenghoiyanae*

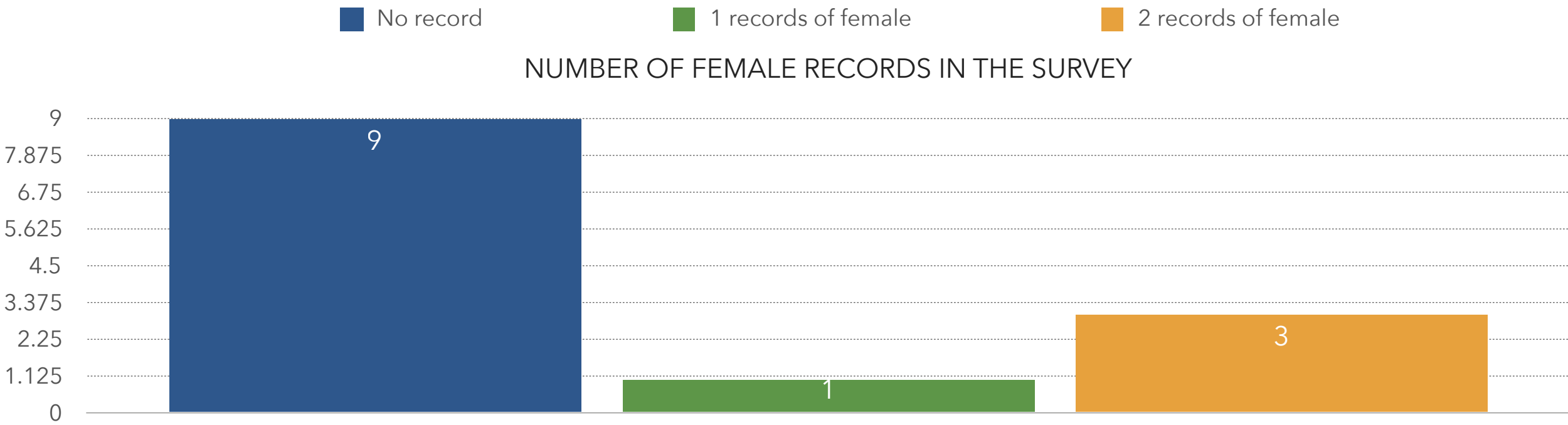
**Sites:** Tei Tong Tsai

**Survey period:** May to June 2024

**Number of person participated:** 13

**Total number of surveys:** 13

**Results:** Average number of records is 0.5 per visit. The average number of records in 2022 was 1.2 per visit. The occurrence rate is decreased.





# Field Survey Mode P3 - Monitoring population trend of *Luciola tuberculata*

**Sites:** Ng Tung Chai

**Survey period:** Late May to early June 2024

**Number of person participated:** 18

**Total number of surveys:** 13

**Results:** Average Number of records varies greatly across the survey period. Average number of records is 62.7 per visit. The average number of records in 2023 was 247 per visit. The occurrence rate is decreased.

