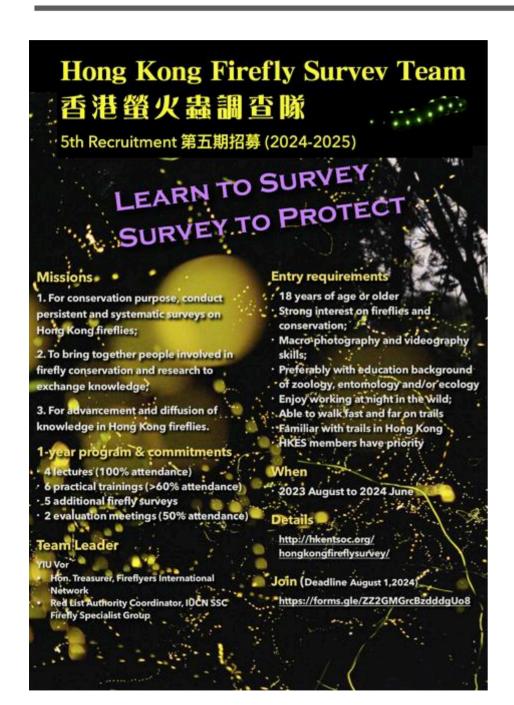
Hong Kong Firefly Survey Team 2024- 2025 A BRIEF REPORT



Recruitment

2024 JULY 6 TO AUGUST 1



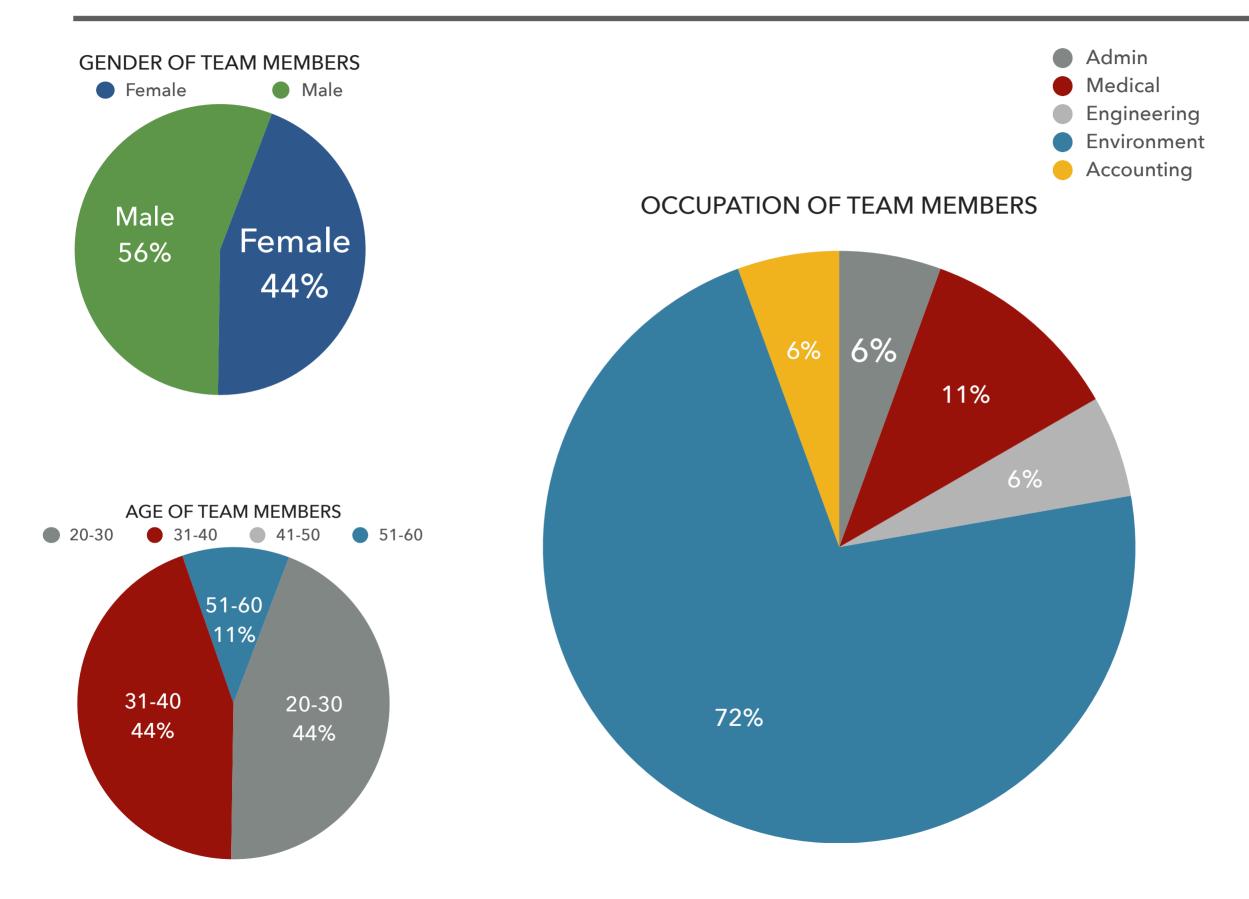
Target: 5-10 participants

Number of applications received: 21

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: 18



Lecture 1 - August 8, 2024:

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

Lecture 2 - August 16, 2024:

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

Lecture 3 - August 22, 2024:

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

Lecture 4 - August 29, 2024:

- Luciolinae
- Examination
- Arrangement of practical trainings





Attendance requirement for every lecture: 100% for all trainees

Actual attendance: 94% for all trainees



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

Average number of practical trainings attended per trainee: 4.8

Field Survey Mode P1 - Monitoring population trend of Rhagophthalmus hiemalis

IUCN Red List Category: Critically Endangered

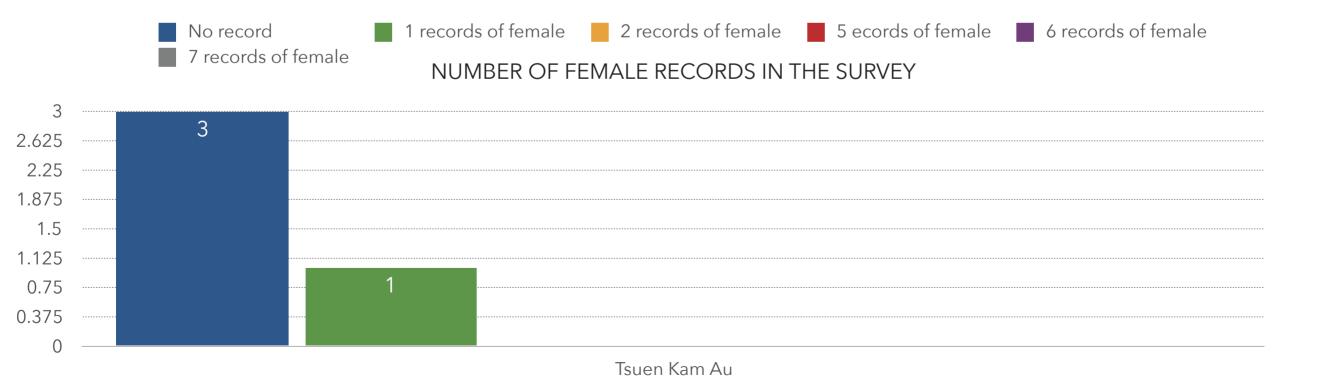
Sites: Tsuen Kam Au

Survey period: December 2024 - February 2025

Number of person participated: 6

Total number of surveys: 4

Results: Out of the 4 surveys, 3 surveys have no record of the target, 1 surveys have 1 record of *Rhagophthalmus hiemalis* female adult.



Survey Mode S1 - Spatial distribution of Rhagophthalmus hiemalis

IUCN Red List Category: Critically Endangered

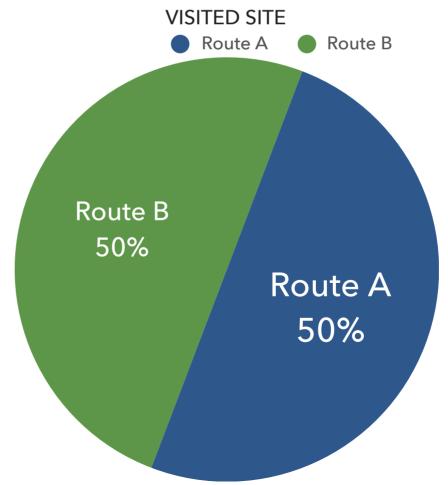
Sites: Similar habitats in Shing Mun Country Park.

Survey period: December 2024 - February 2025

Number of person participated: 7

Total number of surveys: 6

Results: A female target species was recorded on January 5, 2025 in Route B, a new occurence site in Hong kong. A mating pair of target species was recorded on January 19, 2025 in Route A, a new occurence site in Hong kong.



Field Survey Mode P2 - Monitoring population trend of Oculogryphus chenghoiyanae

IUCN Red List Category: Critically Endangered

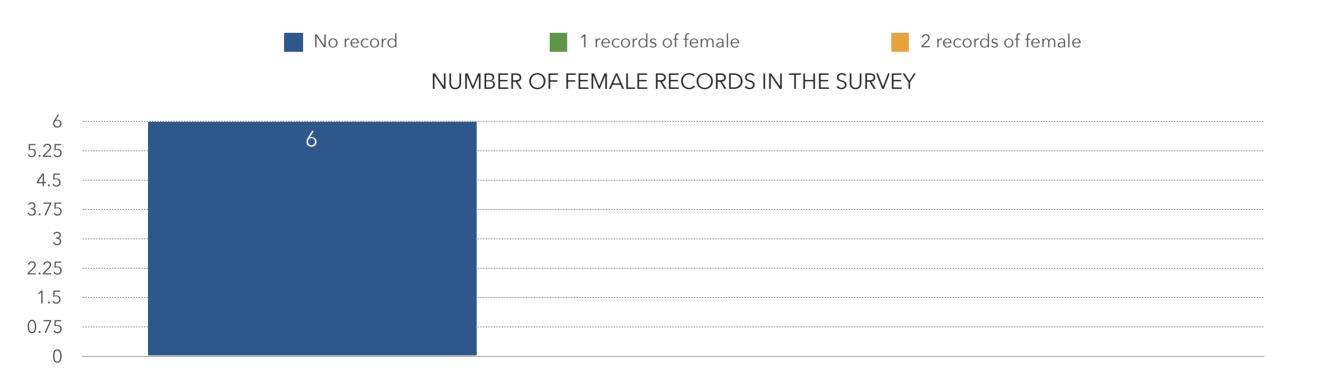
Sites: Tei Tong Tsai

Survey period: May to June 2025

Number of person participated: 5

Total number of surveys: 6

Results: The taget was not recorded in all of the surveys. Average number of records was 0.5 per visit in 2024. The average number of records in 2023 was 1.2 per visit. The occurrence rate is decreased.



Survey Mode S2 - Spatial distribution of Oculogryphus chenghoiyanae

IUCN Red List Category: Critically Endangered

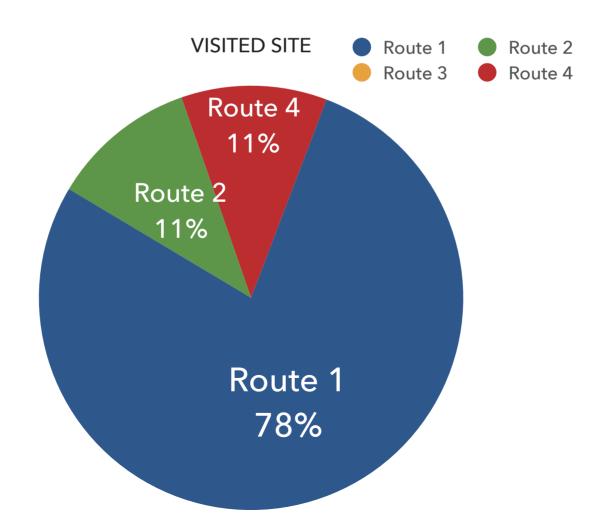
Sites: Similar habitats in Lantau Island, near the occurence site

Survey period: May - June 2025

Number of person participated: 11

Total number of surveys: 10

Results: No record was found in all of the surveys.



Field Survey Mode P3 - Monitoring population trend of Luciola tuberculata

IUCN Red List Category: Critically Endangered

Sites: Ng Tung Chai

Survey period: Late May to early June 2025

Number of person participated: 9

Total number of surveys: 8

Results: Average Number of records varies greatly across the survey period. Average number of records is 106.6 per visit. The average number of records in 2024 was 62.7 per visit, in 2023 was 247 per visit.

