## Hong Kong Firefly Survey Team

2022- 2023 A BRIEF REPORT



## Recruitment

2022 JUNE 6 TO JULY 4



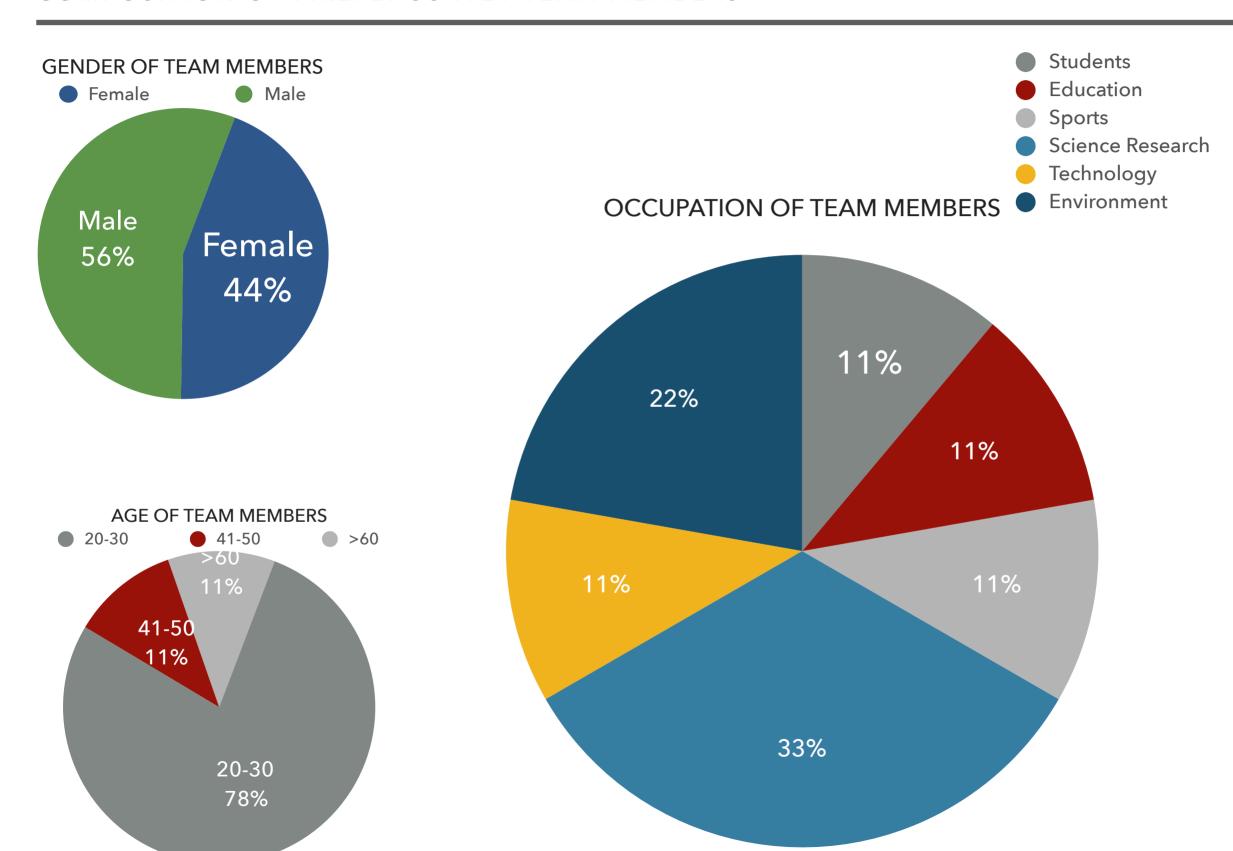
**Target: 5-10 participants** 

Number of applications received: 15

#### **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: 9 + 3 old members



#### Lecture 1 - July 10 2022:

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

#### Lecture 2 - July 13 2022:

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

#### Lecture 3 - July 20 2021:

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

#### Lecture 4 - July 27 2022:

- Luciolinae
- Examination
- Arrangement of practical trainings





Attendance requirement for every lecture: 100% for all trainees

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



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

Average number of practical trainings attended per trainee: 4.7

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

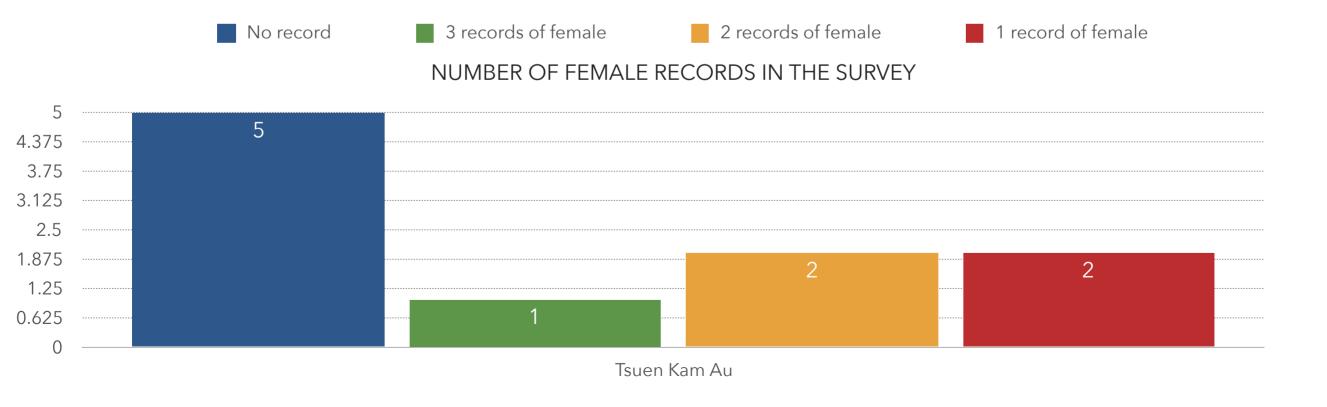
**Sites: Tsuen Kam Au** 

**Survey period: December 2022 - February 2023** 

Number of person participated: 9

**Total number of surveys: 10** 

Results: Out of the 10 surveys, 5 surveys have no record of the target, 2 surveys have 2 records of *Rhagophthalmus hiemalis* female adult in each; 2 surveys have 1 record of *Rhagophthalmus hiemalis* female adult in each; 1 surveys have 3 record of *Rhagophthalmus hiemalis* female adult in each. In the survey done in Dec 2021 to Feb 2022, out of the 15 surveys, 12 surveys have no record of *Rhagophthalmus hiemalis* female adult. The occurrence rate is increased.



## Survey Mode R4 - Range of Cyphonocerus longicornus

Sites: Similar habitats near Mount Paker, type locality of this species.

**Survey period: April, 2023** 

**Number of person participated: 3** 

**Total number of surveys: 4** 

Results: The target species is not recorded in all surveys.

## Firefly Survey in Lamma Island

Sites: Along the path between Tung Sh Wan and Sok Kwu Wan.

**Survey period: May to Early June, 2023** 

Number of person participated: 4

**Total number of surveys: 3** 

Results: A likely female Rhagophthalmus sp. was recorded on May 12



Photo by JessK ch

## Survey Mode R3 - Range of Luciola tuberculata

Sites: Similar habitats near type locality of this species.

**Survey period: April, 2023** 

**Number of person participated: 3** 

**Total number of surveys: 1** 

Results: The target species is not recorded in outside its known distribution range.

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

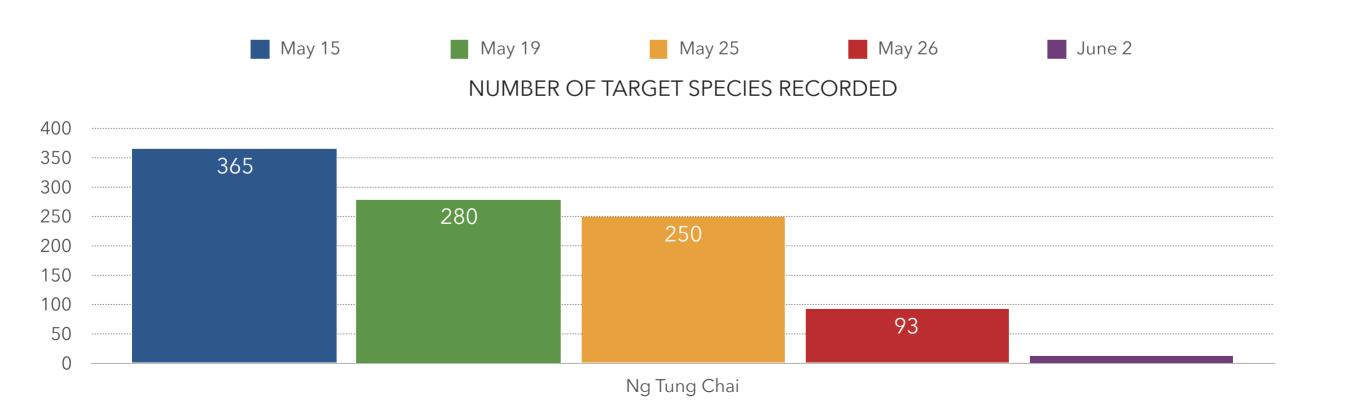
**Sites: Ng Tung Chai** 

**Survey period: Late May to early June 2023** 

Number of person participated: 4

**Total number of surveys: 4** 

Results: Survey on May 15 recorded 365 individuals; Survey on May 19 recorded 280; survey on May 26 recorded 93, survey on June 2 recorded 13.



# Other findings