水鳥普空計劃 Waterbird Monitoring Programme



自1979年起,民間團體香港觀鳥會已開始監測后海灣的水鳥數量及 分布。這項水鳥普查計劃於1997年起獲漁農自然護理署 (漁護署)支 持,其後於2004年成為外判項目,以統籌每月進行的調查,提供可對 比的基線數據,作為管理米埔內后海灣拉姆薩爾濕地的參考資料。

Since 1979, the Hong Kong Bird Watching Society, a local organisation has been monitoring the abundance and distribution of waterbird populations in the Deep Bay area. The Agriculture, Fisheries and Conservation Department (AFCD) has supported this Waterbird Monitoring Programme since 1997. From 2004, it became contract projects on coordination of monthly surveys, in order to provide comparable baseline information for conservation management of the Mai Po Inner Deep Bay Ramsar Site.

調查員正在點算濕地水鳥 A surveyor is conducting waterbird survey

普查清洁 Survey Method

普查方法如下:

- 1. 每次在相同地區及路線進行同步普查,逐種鳥種點算數量
- 2. 每次在相類似的環境情況進行普查,例如每月水鳥調查於漲潮時進行
- 3. 普查範圍包括泥灘、紅樹林、魚塘、基圍、排水道及河溪
- 4. 點算對象包括水鳥和依賴濕地維生的鳥種,後者包括翠鳥、猛禽、白頸鴉和絲光椋鳥。

The surveys are conducted using the following method:

- 1. A simultaneous survey of the number of each bird species in the same area and along the same survey route is conducted every time.
- 2. The survey is conducted in similar environmental conditions each time, e.g. monthly surveys are conducted at rising tide.
 - 3. The counting area includes mudflats and mangroves, fishponds, gei wais, drainage channels and streams
 - 4. The counting targets include all waterbirds and wetlanddependent species, the latter include kingfishers, raptors, Collared Crows and Red-billed Starlings.



部分鳥種在黃昏或黎明時於晚棲 地點算會較準確,例如鸕鷀。 Certain species, such as Great Cormorant are counted more accurately in the evening or at dawn at roosting sites.



當雀鳥群集,視乎 鳥群的數量和調查員的經 驗,可以較小(即2、4、6…) 或較大群 (即每10、20、50或 100隻) 倍數進行點算。

Flocks of birds are easier to count by twos (i.e. 2, 4, 6, 8, 10, etc.) or usually in larger groups (i.e. 10, 20, 50, 100, etc.), depending on the overall flock size and experience of the surveyor.

當雀鳥處於靜止狀態、沒有人為或猛禽干擾、停於細小而狹窄的位置,或分散在開闊的空 間,這時便可以逐隻點算。

群集雀鳥數量

估算數量

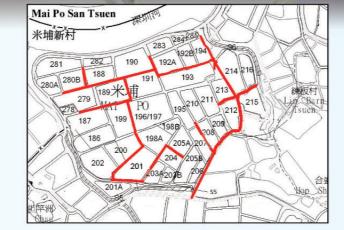
實際數量

Bird-by-bird counts are made when there is limited movement of birds, when there is little or no disturbance by people or raptors, when the birds are located in a small and confined area, or when the birds are scattered in an open area.

普音路線舉例

Example of survey route





為確保結果的可比較性,調查員每月會在相同路線進行同步 普查,而所有魚塘、基圍和河溪等均有獨立編號,以便按編 號記錄雀鳥資料。此外,調查員會定期記錄魚塘和基圍的降 水情況,並會每隔半年記錄一次魚塘的管理及植被狀況。

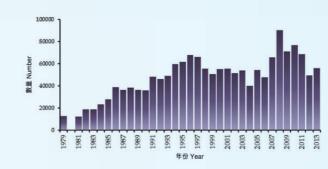
In order to obtain comparable results, surveyors follow the same survey route during the monthly synchronised count. Each fishpond, gei wai, stream, etc. is an independent count location with an assigned number. Surveyors record the birds at each point location. The conditions of the drained fishponds or gei wais are recorded regularly, and condition of pond management and vegetation of each fishpond are recorded twice a year.

水鳥普查的結果選輯 Highlights of the Waterbird Monitoring

過去三十年,后海灣越冬水鳥的數量整體錄得增長,由1970 至1980年代的二萬隻至四萬隻,上升至1990至2010年代的 超過五萬隻,顯示了后海灣濕地對水鳥的重要性。此外,隨 著參與水鳥普查的調查員增加,有關數據亦更趨準確。

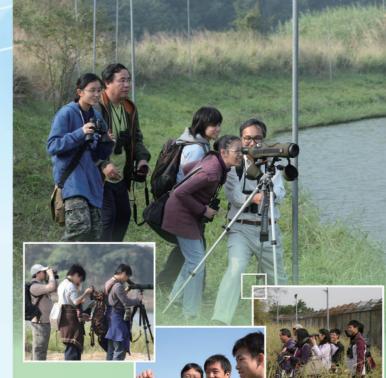
There has been an overall increase in the number of wintering waterbirds in the past 30 years, from 20,000 to 40,000 in the 1970 to 1980s' to over 50,000 in the 1990 to 2000s', indicating that the Deep Bay area is an important site for waterbirds. Besides, the accuracy of the waterbird monitoring programme has also improved with more people participating in the waterbird surveys.

1979-2013年1月份水鳥數量 Number of waterbirds in January 1979-2013



過去廿年,在百多種越冬水鳥當中有13種呈上升趨勢,有 11種卻呈下降趨勢。有趣的是,數量下降的水鳥多為常見鳥 種,而數量上升的多為較稀有的水鳥。後頁介紹一些本普查 在過去十年或廿年數量有顯著變化的越冬水鳥。

Among the over 100 species of wintering waterbirds recorded in Hong Kong in the past 20 years, 13 species have shown an increasing trend in abundance, while 11 species have shown a declining trend. It is interesting that most of the declining species are those commonly observed, whereas many of the increasing species are rare species. Examples of wintering waterbird species obtained in this monitoring programme with a significant change in number in the past 10 or 20 years are shown in the next page.



如你擁有以下各項,歡迎參與水鳥普查

- ◎ 良好的野鳥辨識能力
- 了解水鳥遷徙以及生境使用的情況。
- ◎ 願意於戶外推行點算工作。

You are welcome to join the waterbird count if you have:

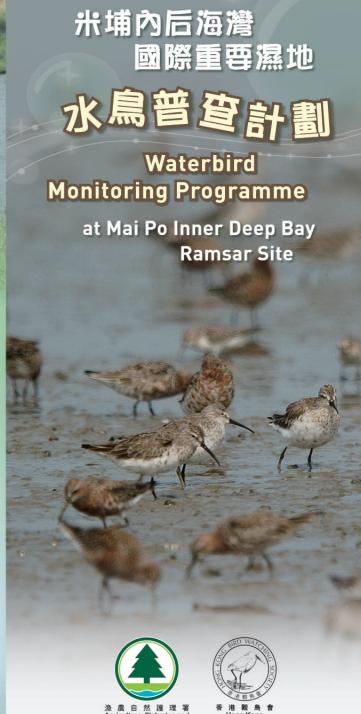
- good identification skills on wild birds;
- knowledge of the migratory patterns and habitat preferences of waterbirds; and
- a willingness to join outdoor field surveys

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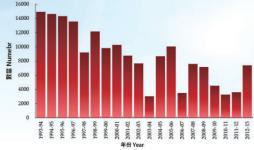
香港觀鳥會

The Hong Kong Bird Watching Society 網址 Website: www.hkbws.org.hk



紅嘴鷗 Black-headed Gull

Chroicocephalus ridibundus



| 分布 | 繁殖於北美東北部、歐亞大陸北部 (北極區除外)。部分北美及歐洲的種群為該處留鳥,其餘於歐洲及亞洲南部、以及非洲北部沿海越冬。 |
|--------------|--|
| 禧 息生境 | 於內后海灣潮間帶和魚塘區棲息及覓食。 |
| 居留狀況 | 冬候鳥 |
| 數量 | 全球總數約有480萬至890萬隻,東亞澳大利西亞遷飛區內有超過10萬隻。 |
| 種群趨勢 | 過去廿年的數量下降6.4% |
| Distribution | They breed in northeast North America and much of northern Europe and Asia, excluding the Arctic region. Some populations in |

with the remaining population wintering on the southern coasts of Asia and Europe and northern coast of Africa. Most of them stay and feed in the intertidal areas and fishponds in the Inner Deep Bay Status Winter visitor

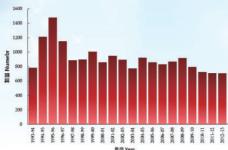
North America and Europe are resident,

There are 4.8-8.9 million individuals worldwide, with over 0.1 million in the East Asian-Australasian Flyway (EAAF).

A decline of 6.4% in the past 20 years

繁殖羽 Breeding plumage

管置 Grey Heron Ardea cinerea



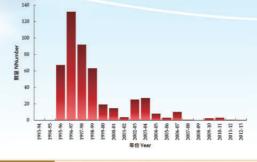
| 分布 | 廣泛分布於非洲及歐亞地區,部分種群為留 鳥,部分為遷徙鳥。 |
|-----------------------|---|
| 禧 息生境 | 多於內后海灣地區的沼澤、魚塘及水道覓食。 |
| 居留狀況 | 冬候鳥 |
| 數量 | 全球總數約有79萬至370萬隻,東亞澳大利西亞遷飛區內約有1萬至10萬隻。 |
| 種群趨勢 | 過去十年的數量下降2.5% |
| Distribution | They are widespread in Africa and Eurasia. Some of the populations are residents and some are migrants. |
| Living Environment | Most of them stay and feed in marshes, fishponds and water channels in the Inner Deep Bay area. |
| Status | Winter visitor |
| Population Size | There are 0.79 - 3.7 million individuals worldwide, with 0.01-0.1 million in the EAAF. |
| Population Trend | A decline of 2.5% in the past 10 years |





中華斑嘴鳴 Chinese Spotbill

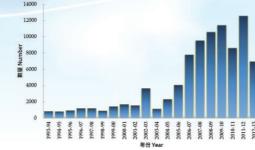
Anas zonorhyncha



| 分布 | 繁殖於東亞地區包括俄羅斯東南部、中國的華中、華北及台灣地區、以及日本,越冬於華南 及中南半島北部。 |
|-----------------------|--|
| 禧 息生境 | 主要於內后海灣的沼澤及魚塘覓食及棲息。 |
| 居留狀況 | 冬候鳥 |
| 數量 | 全球總數約有80萬至160萬隻,全部棲息於東亞澳大利西亞遷飛區內。 |
| 種群趨勢 | 過去十年數量下降36% |
| Distribution | They breed in east Asia, including southeast Russia, central and northern part of the Mainland and Taiwan in China, and Japan. They winter in southern China and northern Indochina. |
| Living Environment | Most of them inhabit and feed in the marshes and fishponds in the Inner Deep Bay area. |
| Status | Winter visitor |
| Population Size | There are 0.8 - 1.6 million individuals worldwide, all of them were recorded in the EAAF. |
| Population | A decline of 36% in the past 10 years |



反嘴鷸 Pied Avocet Recurvirostra avosetta



| 分布 | 廣泛分布於非洲及歐亞地區,部分種群為留 鳥,部分為遷徙鳥。 |
|-----------------------|---|
| 禧 息生境 | 主要於內后海灣泥灘上覓食。 |
| 居留狀況 | 冬候鳥 |
| 數量 | 全球總數約有21萬至46萬隻,東亞澳大利西亞遷飛區內約有10萬隻。 |
| 種群趨勢 | 過去廿年數量上升16.8% |
| Distribution | They are widespread in Africa and Eurasia. Some of the populations are residents and some are migrants. |
| Living Environment | They feed mainly in the Inner Deep Bay mudflats. |
| Status | Winter visitor |
| Population Size | There are 0.21 - 0.46 million individuals worldwide, with about 0.1 million in the EAAF. |
| Population Trend | An increase of 16.8% in the past 20 years |



鳳頭潛鴨 Tufted Duck Aythya fuligula



| 5. 5. | 年份 Year | | |
|--------------|--|------|--|
| 分布 | 繁殖地廣泛分布於歐亞大陸北部,包括由冰島 至俄羅斯東部堪察加半島至中國北部等地區。 部分種群於東亞地區如日本、韓國及中國南部 等地越冬。 | | 繁區的香薷 |
| 禧息生境 | 於內后海灣的沼澤、泥灘及魚塘覓食。 | | 韓國 |
| 居留狀況 | 冬候鳥 | | 於內 護理 |
| 數量 | 全球總數約有260萬至290萬隻,東亞澳大利 | 居留狀況 | 冬候 |
| | 西亞遷飛區內約有20萬至30隻。 | 數量 | 已知 |
| 種群趨勢 | 過去十年數量上升15.3% | 種群趨勢 | 過去 |
| Distribution | The breeding sites are widely spread over northern Eurasia, ranging from Iceland to Kamchatka in eastern Russia, and northeastern China. Some populations winter in east Asia, including Japan, South Korea and South China. | | They Kore Liao coas maj estu Kon |

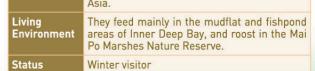
They inhabit the marshes, mudflats and

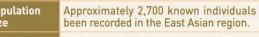
There are 2.6 - 2.9 million individuals worldwide, with about 0.2-0.3 million in the

An increase of 15.3% in the past 10 years

fishpond areas of Inner Deep Bay.

Winter visitor





An increase of 5.2% in the past 10 years

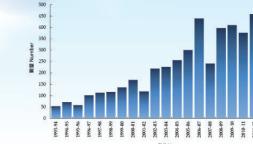


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Status

黑臉琶鷹 Black-faced Spoonbill /

Platalea minor



| 分布 | 繁殖於朝鮮半島西部、中國遼寧省東部沿海區、以及俄羅斯符拉迪沃斯托克(海参崴)以的海岸地區。最大的越冬地有台南曾文溪口香港后海灣及中國大陸南部,其他越冬地累韓國、日本、越南及部分沿岸東南亞地區。 |
|-------------|--|
| 禧息生境 | 於內后海灣的泥灘及魚塘中覓食,於米埔自護理區晚棲。 |
| 居留狀況 | 冬候鳥 |
| 數量 | 已知總數約有2,700隻,棲息於東亞地區。 |
| 種群趨勢 | 過去十年的數量上升5.2% |
| 20.00 | |



| ation | Approximately 2,700 known individuals been recorded in the East Asian region. |
|-------|---|
|-------|---|





非繁殖羽 Non-Breeding plumage