



## **The International Black-faced Spoonbill Census: 24-26 January 2003**

Y. T. Yu

Organized by:



The Hong Kong Bird  
Watching Society Limited

Supported by:



Agriculture, Fisheries and  
Conservation Department

# The International Black-faced Spoonbill Census: 24-26 January 2003

---

## *Coordinator*

YU Yat Tung

The Hong Kong Bird Watching Society Limited

## *Data contributors*

**China mainland:** Dong Jiangtian, Jang Kejia, Jiang Hangdong, Kang Hongli Liang Wei, Lu Ni, Wang Hui, Wang Jieyi, Wang Xiwen, Wang Yongjun, Yu Haiyan, Zhang Guogang, Zhou Fasang; **Hong Kong:** Nik Aspey, H.F. Cheung, Louis Cheung, Paul Collins, Forrest Fong, Ho Man-fai, Tobi Lau, Li Wai-ki, Paul Leader, Judy Wan, Dickson Wong, Y.T. Yu, staff of Agriculture, Fisheries and Conservation Department; **Japan:** Shiori Asai, Simba Chan, Kinuko Hakoda, Takami Hakoda, Takuro Hattori, Masataka Hanada, Osamu Hayashi, Tamiko Higuchi, Tetsuya Higuchi, Hiroshi Hikita, Kyoichiro Imamura, Fumitaka Iseki, Ryuta Kano, Yasuko Kano, Nobuko Kawakami, Kaori Kitada, Kimiko Kouno, Takanari Kubo, Hiroshi Kukita, Yukinori Kurihara, Satoru Matsumoto, Yoshifumi Matsumoto, Reiko Matsuoka, Kazumasa Matsushima, Nagashisa Mita, Keiko Miyano, Yasuo Miyazaki, Toshio Naka, Akira Sakai, Kenichi Siraishi, Sanehiko Sonoda, Shigeki Takano, Naoko Takayama, Yoshimichi Tsuchiya, more than 100 citizens of Tsuyazaki Town, Mutsuyuki Ueta, Kunihiko Watanabe, Yamamoto Hiroko, Hiroshi Yamaguchi, Mr. Yamane, Wild Bird Society of Japan; **Macau:** Leung Va; **Republic of Korea:** Choi Chang-yong, Kim Wan-byung; **Taiwan:** Fang Woei-horng, Chen Chieh-peng, Chen Chung-tao, Chen Shang-chin, Chou Chung-yi, Ho Jen-te, Hu Lin-chih, Huang Nan-ming, Hung Sheng-yu, Li Yu-jen, Pan Chih-yuan, Wang Hsin-hua, Wu Hsin-ho, Wild Bird Federation of Taiwan; **Thailand:** Uaiphorn Khwanphae; **The Philippines:** Marlynn Mendoza; **Vietnam:** Nguyen Duc Tu, Le Trong Trai, Jack Tordoff, BirdLife International Indochina Programme;

## *Copyright*

The Hong Kong Bird Watching Society Limited

All rights reserved. No extracts in whole or in part may be reproduced without the permission of The Hong Kong Bird Watching Society Limited

## *Published by*

The Hong Kong Bird Watching Society Limited

*(Approved Charitable Institution of a Public Character)*

BirdLife International Affiliate

## *Available from*

The Hong Kong Bird Watching Society Limited

Project Office: Room 625, Beverley Commercial Building, 87-105 Chatham Road

Tsim Sha Tsui, Kowloon, Hong Kong

Tel: (852) 2377 4387 Fax: (852) 2314 3687

E-mail: [hkbws@hkbws.org.hk](mailto:hkbws@hkbws.org.hk) Website: [www.hkbws.org.hk](http://www.hkbws.org.hk)

## *Recommended citation*

Yu, Y.T. 2003. International Black-faced Spoonbill Census: 24-26 January 2003. The Hong Kong Bird Watching Society. Hong Kong.

Cover photo: Black-faced Spoonbill *Platalea minor* at Mai Po (Photo by: Marcus Ho)

# The International Black-faced Spoonbill Census, 24-26 January 2003

*Y.T. Yu*

**The Hong Kong Bird Watching Society Ltd.**

(Approved Charitable Institute of a Public Character)

## TABLE OF CONTENTS

### **English report**

Introduction.....	2
Method .....	2
Results and discussion	
Overview.....	3
Hong Kong and Pearl River Estuary.....	4
Main Wintering Sites .....	4
Surveys in South China.....	5
Threats.....	5
Acknowledgements.....	6
References.....	6

### **Map**

Map 1	Locations of International Black-faced Spoonbill Census 2003.....	7
-------	---	---

### **Table**

Table 1.	Number of Black-faced Spoonbill in different locations of East Asia.....	8
Table 2.	Additional counts from some sites in winter 2002-03 .....	10

### **Figures**

Figure 1.	Known wintering Black-faced Spoonbills, 1989-2003.....	11
Figure 2.	Number of Black-faced Spoonbills in Hong Kong during the International Census.....	11
Figure 3.	Percentages of Black-faced Spoonbills in different wintering grounds.....	12
Figure 4.	Numbers and trends of Black-faced Spoonbills in the world, Tainan of Taiwan, Deep Bay of Hong Kong, Red River Delta of Vietnam from the International Censuses.....	12

<b>Appendix</b> .....	13
-----------------------	----

---

**International Black-faced Spoonbill Census  
24-26 January 2003**

***ENGLISH REPORT***



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

# The International Black-faced Spoonbill Census, 24-26 January 2003

Y.T. Yu

The Hong Kong Bird Watching Society Ltd.<sup>1</sup>

## Introduction

Black-faced Spoonbill *Platalea minor* is a globally endangered species (BirdLife International 2000), which only occurs on the east fringe of Asia. Its known world population was less than 1000 individuals (Dahmer and Felley Unpub. MS 2002).

Known wintering populations of the Black-faced Spoonbill have been assessed by international census since 1993, with Tom Dahmer as the coordinator. This census was listed as a high priority recommendation in the 'Action Plan for the Black-faced Spoonbill *Platalea minor*' (Severinghaus *et al.* 1995). At the International Black-faced Spoonbill Workshop held in Beijing in 1996, representatives from all range countries agreed to expand upon the census coordinated by Tom Dahmer to gain a wider coverage of the wintering grounds.

This census proved to be an effective and practical means to provide information on the population and distribution of wintering Black-faced Spoonbills. The Hong Kong Bird Watching Society (HKBWS), an affiliate of BirdLife International accepted the responsibility to co-ordinate the International Census from 2003 onwards. This note reports on the mid-winter census undertaken in wintering sites 24-26 January 2003.

## Method

The census period was 24, 25 and 26 January 2003. Census dates have always been chosen in mid or late January because the spoonbills seem to be stable in mid-winter. Map 1 shows the area covered by the census. Surveys were carried out in areas where Black-faced Spoonbills had been reported before. Field counts were done in a synchronized manner, making use of binoculars and telescopes.

---

<sup>1</sup> Contact information:  
Postal address: G.P.O. Box 12460, Hong Kong  
Project Office: Room 625, Beverley Commercial Building, 87-105 Chatham Road, Tsim Sha Tsui, Kowloon, Hong Kong.  
Tel: (852) 2377 4387 Fax: (852) 2314 3687  
E-mail (Project Office): hkbws@hkbws.org.hk  
E-mail (International Census Coordinator): bfspoonbill@hkbws.org.hk

Counting of the spoonbills relies on voluntary efforts from counters including experienced bird watchers, researchers and ornithologist. The census results in Hong Kong, Macao, Taiwan, Vietnam and Japan are summarized by coordinators in the respective regions. As in the last few years, Taiwanese birdwatchers assisted in the counts in Vietnam. The counts in South Korea, China Mainland and Thailand were carried out by individuals sending in separate reports.

Some sites are located in close proximity, such as Mai Po in Hong Kong, Futian in Shenzhen and Taipa in Macao, all being in the Pearl River estuary in southern China. Spoonbills can fly between these sites within a day. Hence, counts in these sites were conducted in synchronization.

During the counts, the counters recorded the numbers of the Black-faced Spoonbills, the location and time of counts at the specified sites. In the previous counts observers were asked to send in number of immature birds as well. But this may not be easy at sites with many spoonbills (e.g. Taiwan and Hong Kong) or sites where experienced observers were not available. The information was then reported to the Coordinator designated by the Hong Kong Bird Watching Society.

## **Results and discussion**

### **Overview**

A minimum of 1069 Black-faced Spoonbills were counted in the census this year (Table 1). This is the first time for the spoonbill number to exceed 1,000.

The actual number of spoonbills may be higher than this number because we did receive a record of twelve spoonbills in Hainan Island (Table 2). However, the Hainan counts were not made during the specified period of the International Census and hence the number has not been included in the total figure of this census. An outbreak of botulism in Tsengwen estuary, Taiwan, killed a total of 73 Black-faced Spoonbills from December 2002 to February 2003. Otherwise the total number would have exceeded 1,100.

The 2003 figure is at least 10% more than that of 2002. The known world population of Black-faced Spoonbill from the census has been increasing for five consecutive years since 1998. Indeed, the number of the spoonbills has increased generally since the commencement of the international census (Figure 1).

### **Hong Kong and Pearl River Estuary**

In Hong Kong, the number of Black-faced Spoonbills has increased since the 1980s. Annual peak numbers of the spoonbills increased from 50 individuals in 1989 (Kennerley 1990) to 258 on 31 December 2002 (P.J. Leader pers. comm.). However, the census results in the past shows that the number of spoonbills in Hong Kong has been relatively smaller and stable till 2000 and the numbers only reached 99 in winter 1995-96. Then numbers has then increased to 136 and 137 individuals in January 2001 and 2002 respectively, partially because of the improved census effort and almost certainly a real increase of the wintering population.

The census in Hong Kong was undertaken in a large scale in January 2003, covering the whole Deep Bay area including Mai Po Nature Reserve, Lok Ma Chau, Tsim Bei Tsui (Inner Deep Bay), and from Lau Fau Shan to Nim Wan (Outer Deep Bay). As a result, 179 birds were recorded during the census (Figure 2). Together with 24 and 46 birds counted in Futian and Macao respectively, it gave a total of 249 birds in Pearl River Estuary.. This total number is very close to that of the peak number (i.e. 258 birds) in Hong Kong in winter 2002-03. It is tempting to suggest that birds in Macao and Futian might belong to the same wintering group in the Mai Po Marshes and Inner Deep Bay Ramsar site. A sighting of colour-ringed Black-faced Spoonbills in Futian (e.g. Anon 2001) supports this speculation. However, the movement of Black-faced Spoonbills between Macao and Hong Kong still has to be proved.

### **Main Wintering Sites**

The known numbers of Black-faced Spoonbills expressed as percentage figures relative to the total population for each country and region are shown in Figure 3. Tsengwen estuary and the area near Tainan constituted the largest wintering site and a total of 562 (52.6%) individuals were recorded. The Deep Bay inclusive of Mai Po was the second largest where 179 (16.7%) birds were counted. Xuan Thuy in the Red River Delta of Vietnam also held 65 (6.1%) spoonbills, which was the third largest site. In this census, a total of 75.4% of the known wintering population of the spoonbills was recorded in these three sites.

In addition, spoonbill numbers in Tsengwen Estuary area have been increasing drastically since 1996-97, while numbers in Mai Po have only risen slowly. In Red River Delta, numbers have decreased since 1995-96 but tended to be stable in the most recent years (Figure 4).

The survey in Japan is coordinated by the Japan Black-faced Spoonbill Network

formed in June 2002 and the Wild Bird society of Japan. Since 2000 the total number recorded in Japan has been rather stable (slightly less than 100 birds). This year the number increased to 128 birds. That was probably a real increase in the number of birds wintering in Japan.

### **Surveys in South China**

The Huanan coast of China mainland was largely under-surveyed in the past due to its extensive area, lack of observers and baseline information, and difficulties in communication. In this census, volunteers in China were invited to carry out the census in sites along the coast including Chongming Dao of Shanghai Municipality, Quanzhou of Fujian Province, Panyu, Leizhou Peninsular and Zhanjiang area of Guangdong Province. However, the survey in Quanzhou was finally called off because the vehicle involved was broken and the counter could not reach the target area. Surveys in Leizhou Peninsula and Zhanjiang did take place but they were carried out before the period of census. Furthermore, no spoonbill was found.

### **Threats**

The census showed strikingly that wintering Black-faced Spoonbills were concentrated in three sites. Thus the future of the spoonbill is highly susceptible to individual catastrophic events at these small number of sites. Habitat deterioration and other threats might drastically reduce the number of the spoonbills. One notable illustration of potential catastrophes is the recent mass death of seventy-three Black-faced Spoonbills caused by Avian Botulism in Taiwan. The higher the congregation of birds is in one site, the higher the risk of massive population loss would be. Thus, this species is still facing a high risk of extinction.



## Acknowledgements

This census could not be undertaken without the support of enthusiastic counters for data collection. I thank to all the following counters: Nik Aspey, H.F. Cheung, Louis Cheung, Paul Collins, Forrest Fong, Ho Man-fai, Tobi Lau, Li Wai-ki, Paul Leader, Judy Wan, Dickson Wong, staff of Agriculture, Fisheries and Conservation Department (Hong Kong); Dong Jiangtian, Jang Kejia, Jiang Hangdong, Kang Hongli Liang Wei, Lu Ni, Wang Hui, Wang Jieyi, Wang Xiwen, Wang Yongjun, Yu Haiyan, Zhang Guogang, Zhou Fasang (China mainland); Leung Va (Macao) Fang Woei-horng, Chen Chieh-peng, Chen Chung-tao, Chen Shang-chin, Chou Chung-yi, Ho Jen-te, Hu Lin-chih, Huang Nan-ming, Hung Sheng-yu, Li Yu-jen, Pan Chih-yuan, Wang Hsin-hua, Wu Hsin-ho, Wild Bird Federation of Taiwan (Taiwan), Nguyen Duc Tu, Le Trong Trai, Jack Tordoff, BirdLife International Indochina Programme (Vietnam); Marlynn Mendoza (The Philippines); Choi Chang-yong, Kim Wan-byung (Republic of Korea), Shiori Asai, Simba Chan, Kinuko Hakoda, Takami Hakoda, Takuro Hattori, Masataka Hanada, Osamu Hayashi, Tamiko Higuchi, Tetsuya Higuchi, Hiroshi Hikita, Kyoichiro Imamura, Fumitaka Iseki, Ryuta Kano, Yasuko Kano, Nobuko Kawakami, Kaori Kitada, Kimiko Kouno, Takanari Kubo, Hiroshi Kukita, Yukinori Kurihara, Satoru Matsumoto, Yoshifumi Matsumoto, Reiko Matsuoka, Kazumasa Matsushima, Nagashisa Mita, Keiko Miyano, Yasuo Miyazaki, Toshio Naka, Akira Sakai, Kenichi Siraishi, Sanehiko Sonoda, Shigeki Takano, Naoko Takayama, Yoshimichi Tsuchiya, more than 100 citizens of Tsuyazaki Town, Mutsuyuki Ueta, Kunihiko Watanabe, Yamamoto Hiroko, Hiroshi Yamaguchi, Mr. Yamane, Wild Bird Society of Japan (Japan); Uaiphorn Khwanphae (Thailand).

## References

- BirdLife International.** 2000. Threatened Birds of the World. Lynx Edicions and BirdLife International, Barcelona and Cambridge, UK.
- Dahmer, T. and Felley, M.** 2002. Summary of 2002 Winter Census of Black-faced Spoonbill *Platalea minor*. Ecosystem Ltd. Unpub. MS.
- Kennerley, P.R.** 1990. A review of the status and distribution of the Black-faced Spoonbill. Hong Kong Bird Report 1989: 83-100.
- Severinghaus, L.L., Brouwer, K., Chan, S. Chong, J.R., Coulter, M.C., Poorter, E.P.R. and Wang, Y.** 1995. Action plan for the Black-faced Spoonbill *Platalea minor*. "Task Force to Develop an Action plan for the Preservation of the Black-faced Spoonbill" Taipei, Taiwan. January 16-22, 1995.

---

**International Black-faced Spoonbill Census  
24-26 January 2003**

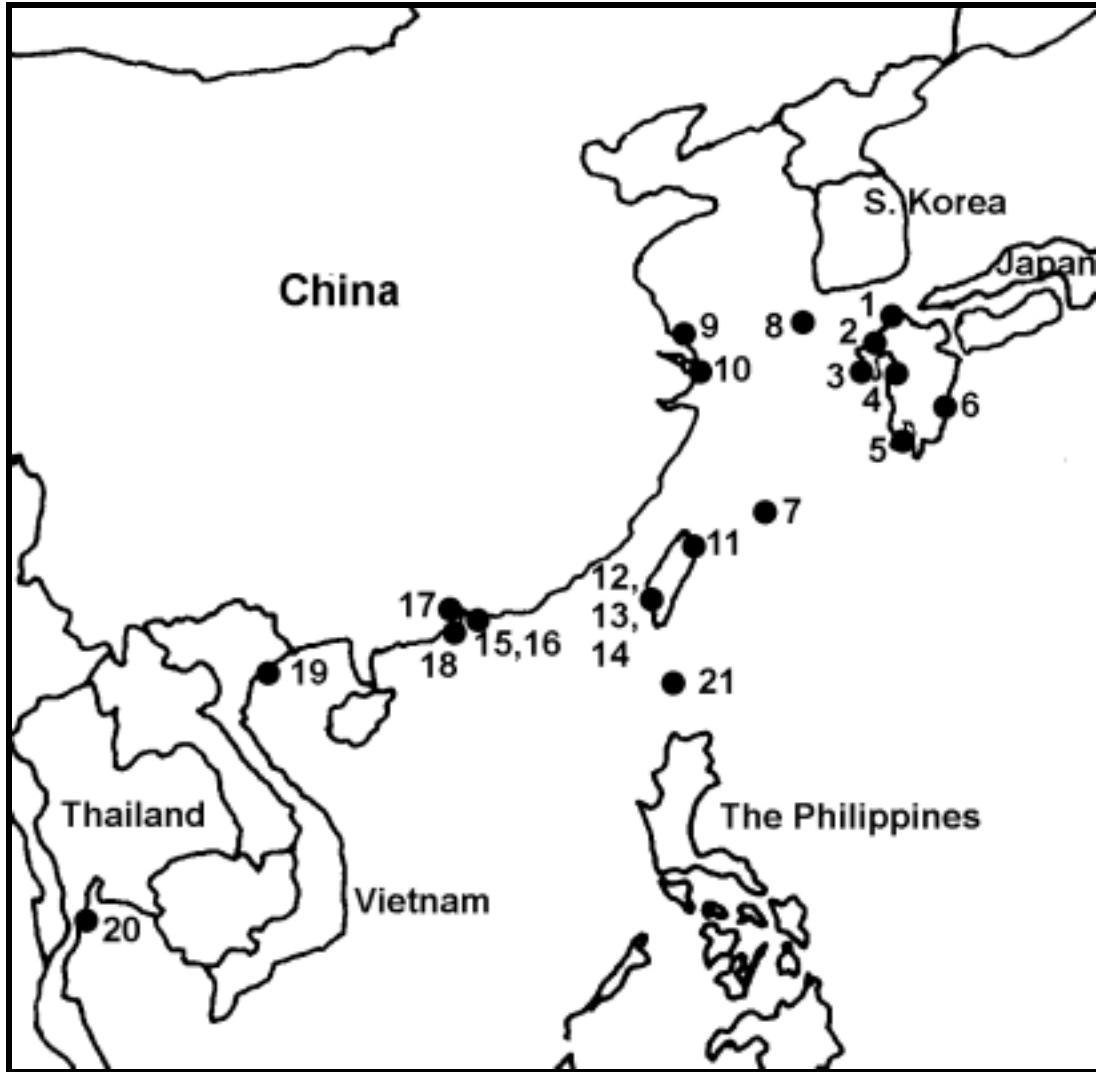
***MAP***



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department



Map 1. Locations of International Black-faced Spoonbill Census 2003. 1) Fukoka, Japan; 2) Saga, Japan; 3) Nagasaki, Japan; 4) Kumamoto, Japan; 5) Kagoshima, Japan; 6) Miyazaki, Japan; 7) Okinawa Islands, Japan; 8) Jeju Island, South Korea; 9) Yenchang, Jiangsu; 10) Chongming Dao, Shanghai; 11) Ilan, Taiwan; 12) Pa Chung River, Taiwan, 13) Tsengwen Estuary, Taiwan; 14) Szu-tsao, Taiwan; 15) Mai Po and Inner Deep Bay, Hong Kong; 16) Futian, Shenzhen; 17) Panyu, Guangzhou; 18) Taipa, Macao; 19) Red River Delta, Vietnam; 20) Phentchaburi, Thailand; 21) Batanes, the Philippines.

---

# **International Black-faced Spoonbill Census 24-26 January 2003**

## ***TABLES***



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

Table 1. Number of Black-faced Spoonbill in different locations of East Asia.  
Numbers in brackets may be over-counting.

Region	Location	Date	Number	Reported by
China mainland	Yenchang, Jiangsu	27 Jan	16	Wang Hui via Simba Chan)
China mainland	Chongming Dao, Shanghai	24-26 Jan	1	Wang Tinhou and Mark Barter via Wang
China mainland	Panyu, Guangzhou	24-26 Jan	0	Yu Haiyin
China mainland	Futian, Shenzhen	24-26 Jan	24	Wang Yongjun
Hong Kong	Mai Po and Deep Bay	24-26 Jan	179	HKBWS
Macao	Taipa	24-26 Jan	46	Leung Va
Taiwan	Chiku, Tainan	26 Jan	429	WBFT
Taiwan	Pa-Chang estuary, Tainan	26 Jan	7	WBFT
Taiwan	Szu-Tsao, Tainan	26 Jan	126	WBFT
Taiwan	Wen-ti, Ilan	25 Jan	3	WBFT
Taiwan	Lan-yang Esutary, Ilan	25 Jan	1	WBFT
Taiwan	Kang-nan, Hsinchu City	25 Jan	1	WBFT
Taiwan	Injured and sick Individuals <sup>1</sup>	24-26 Jan	18	WBFT
Vietnam	Red River Delta, Xuan Thuy Nature Reserve	24 Jan	65	Fang Woei-horng (WBFT)
Vietnam	Red River Delta, Thai Binh Estuary	24 Jan	0	Nguyen Duc Tu (BIIP)
Vietnam	Red River Delta, Nghia Hung District	24 Jan	0	Le Trong Trai (BIIP)
Vietnam	Ha Nam Island, Quang Ninh province, Yen Hung District	24 Jan	0	Jack Tordoff (BIIP)
Japan	Kyushu: Fukuoka Pref., Imazu tidal flat	26-Jan	19	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Fukuoka Pref., Jinko-to reclaimed land	26-Jan	2	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Fukuoka Pref., Wajiro tidal flat	26-Jan	2	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Fukuoka Pref., Tatara estuary	26-Jan	4	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Fukuoka Pref., Tsuyazaki	26-Jan	1	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Fukuoka Pref., Sone tidal flat	25-Jan	1	Yamamoto Hiroko, Simba Chan and M.J. Ueta
Japan	Kyushu: Saga Pref., Rokkaku Estuary	25-Jan	2	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Kumamoto Pref., Kumamoto new port	25-Jan	13	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Kumamoto Pref., Ezu lake	25-Jan	1	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Kumamoto Pref., Hikawa Estuary	25-Jan	12	Japan BFS Network, Simba Chan and M.J. Ueta

Japan	Kyushu: Kumamoto Pref., Kagamigawa Estuary	25-Jan	2	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Kumamoto Pref., Maekawa Estuary	25-Jan	6	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Miyazaki Pref., Hitotsuse Estuary	26-Jan	5	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Kagoshima Pref., Beppu Estuary	25-Jan	11	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Kagoshima Pref., Manose River mouth	26-Jan	16	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Okinawa Pref., Manko	24-Jan	2	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Kyushu: Nagasaki Pref., Inside the embankment of Isahaya Bay	24-Jan	11	Yamamoto Hiroko, Simba Chan and M.J. Ueta
Japan	Kyushu: Kagoshima Pref., Izumi	26-Jan	2	Japan BFS Network, Simba Chan and M.J. Ueta
Japan	Okinawa Pref., Gushi Tidal Flat	25-Jan?	14	Yamamoto Hiroko, Simba Chan and M.J. Ueta
Japan	Okinawa Pref., Tomishiro	25-Jan?	1	Yamamoto Hiroko, Simba Chan and M.J. Ueta
Japan	Kyushu: Fukuoka Pref., Funakoshi Bay	26-Jan	1	Japan BFS Network, Simba Chan and M.J. Ueta
Republic of Korea	Seongsanpo, Jeju	24-25 Jan	22 (24)	Choi Chang-yong , Kim Wan-byung
The Philippines	Savidug and Sabtan, Batanes	24-25 Jan 1月24-25日	0	Marlynn Mendoza
Thailand	Phentchaburi	Late Jan	3 (6)	Uaiphorn Khwanphae
<b>Total</b>			<b>1069 (1074)</b>	

<sup>1</sup> Injured and sick Black-faced Spoonbills in Taiwan are recovering well under treatment and seventeen spoonbills were released on 18 February 2003.

Table 2. Additional counts from some sites in winter 2002-03

<b>Region</b>	<b>Location</b>	<b>Date</b>	<b>Number</b>	<b>Reported by</b>
China mainland	Dongzhaigong, Hainan	10-Jan	1	Liang Wei
China mainland	Xinying, Lingao, Hainan	11-Jan 1 月 11 日	11	Liang Wei
China mainland	Yinggehai, Ledong, Hainan	Jan	0	Liang Wei
China mainland	Leizhou Peninsular, Guangdong	23-Dec 02 to 13-Jan 03	0	Zhou Fasang
China mainland	Ming Jiang Estuary, Fujian	1-Mar	2	M.J. Ueta and Zhang Guogang
China mainland	Coasts of Zhejiang	Feb	0	M.J. Ueta and Zhang Guogang
<b>Total</b>			<b>14</b>	

---

## **International Black-faced Spoonbill Census 24-26 January 2003**

### ***FIGURES***



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department



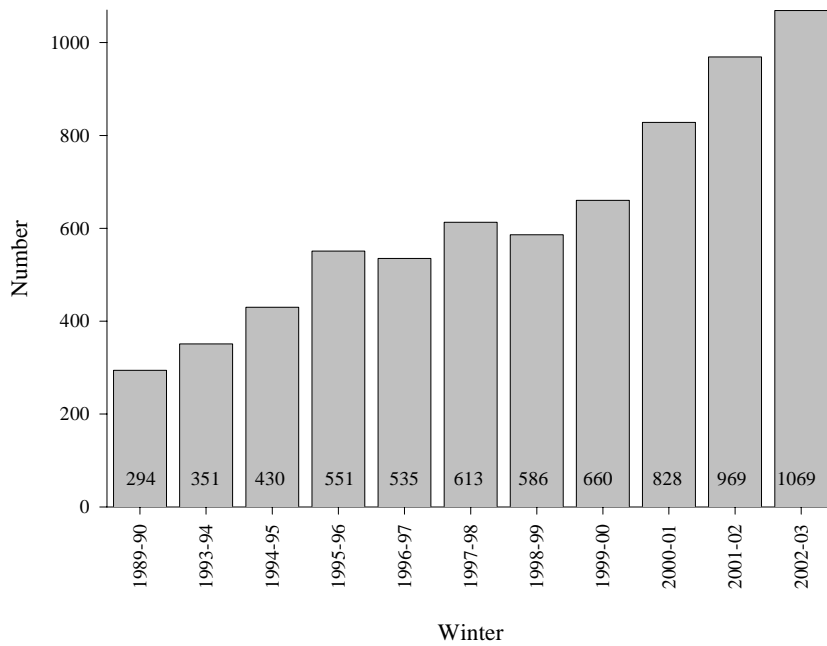


Figure 1. Known wintering Black-faced Spoonbills, 1989-2003

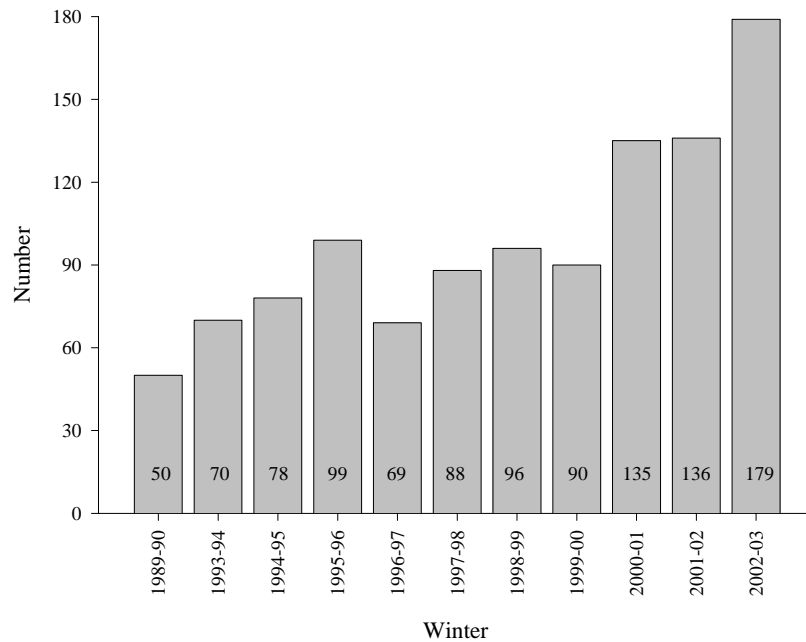


Figure 2. Numbers of Black-faced Spoonbills in Hong Kong during the International Censuses.

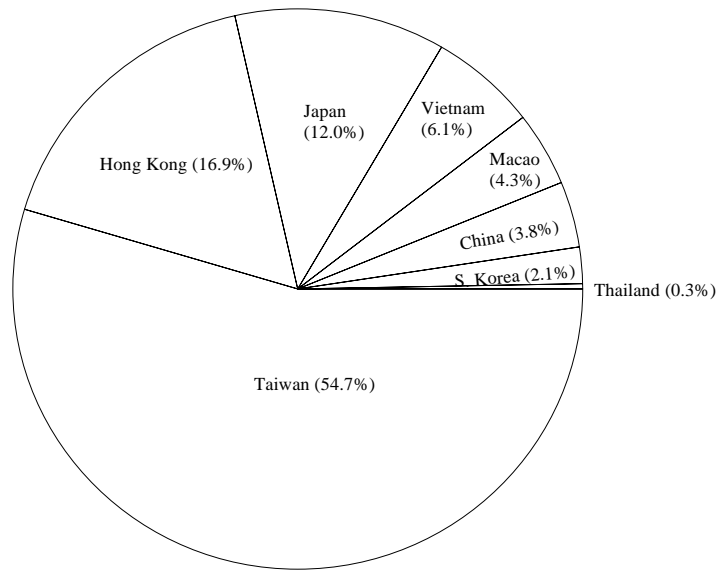


Figure 3. Percentages of Black-faced Spoonbills in different wintering grounds.

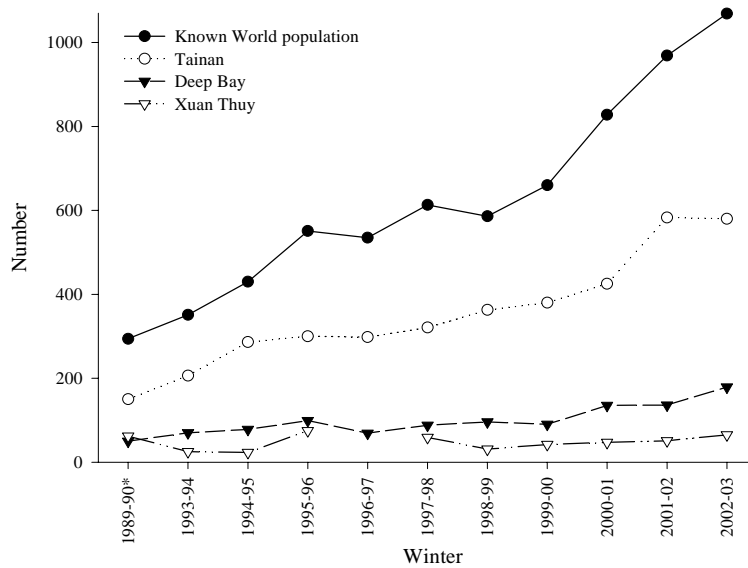


Figure 4. Numbers and trends of Black-faced Spoonbills in the world, Tainan of Taiwan, Deep Bay of Hong Kong, Red River Delta of Vietnam from the International Censuses. \*Numbers were based on a review by Kennerley (1990).

---

**International Black-faced Spoonbill Census  
24-26 January 2003**

***APPENDIX***



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

## Appendix

### Appendix 1. Counts of Black-faced Spoonbills in Hong Kong during International Census, January 2003.

#### a) Counts on 24 January 2003

Place/Time	1400h	1500h	1600h
Mai Po Nature Reserve	85	127	58
Lok Ma Chau	0	0	0
Mai Po Boardwalk	4	0	0
Tsim Bei Tsui	0	0	0
'Outer' Deep Bay	NC	NC	NC
Total	89	127	58

#### b) Counts on 25 January 2003

Place/Time	1445h	1545h	1645h
Mai Po Nature Reserve	129	85	11
Lok Ma Chau	0	0	0
Mai Po Boardwalk	0	3	0
Tsim Bei Tsui	0	0	0
'Outer' Deep Bay	0	2	0
Total	129	90	11

#### c) Counts on 26 January 2003

Place/Time	1530h	1630h	1730h
Mai Po Nature Reserve	143	156	179
Lok Ma Chau	0	0	0
Mai Po Boardwalk	3	0	0
Tsim Bei Tsui	0	0	0
'Outer' Deep Bay	0	0	0
Total	146	156	179