

Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme

Winter 2002-2003 Report Y. T. Yu



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

Waterbird Count Coordinator

YU Yat Tung

Project Funding

Agriculture, Fisheries and Conservation Department

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Cover photo: Saunders's Gull *Larus Saundersi* and Black-headed Gull *Larus ridibundus* at Mai Po (Photo by: John HOLMES)

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MAI PO INNER DEEP BAY RAMSAR SITE WATERBIRD MONITORING PROGRAMME

Programme 2002/03

Monthly Waterbird Counts

Oct 2002 - Mar 2003

Winter 2002-2003 Report

Y.T. Yu¹

Introduction

Long-term monitoring of waterbirds in the Mai Po Inner Deep Bay Ramsar Site is an important aspect of the management strategy for the Site, and provides an indication of the health of the Deep Bay ecosystem. This programme, which commenced in March 1998, is administered and executed by the Hong Kong Bird Watching Society Limited (HKBWS) under subvention from the Agriculture, Fisheries and Conservation Department. Monthly counts of waterbirds form one part of this programme, the other main components being counts of migrant shorebirds utilising the area and surveys of ardeid nesting colonies. This report concerns the waterbird monitoring component for the winter period from October 2001 to March 2002.

Coordinated mid-monthly counts of wintering waterbirds in Hong Kong were carried out by members of the HKBWS on 20 October 2002, 17 November 2002, 21 December 2002, 19 January 2003, 23 February 2003 and 23 March 2003. The January count was carried out to coincide with the Asian Waterfowl Census organized by Wetlands International – Asia Pacific. Counts from November to March have been carried out each winter since 1992-1993; counts in January were first carried out in 1979.

In accordance with guidelines provided by Wetlands International, other counts, if higher, are included from the one-week period wither side of the coordinated count date. It should be noted that for the majority of species this means the single count must be higher than the total provided by the coordinated count for it to be included.

The Hong Kong Bird Watching Society Limited

Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site - Winter 2002-2003 Report

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As in recent winters, the use of mobile phones at Tsim Bei Tsui and Mai Po Boardwalk ensured that double-counting and, as far as possible, under-counting was avoided for birds in the intertidal areas on the Hong Kong side of Deep Bay ('Inner Deep Bay').

Due to habitat degradation, the areas of Tin Shui Wai and Chau Tau were dropped from the list of sites counted from winter 2000-2001. Nam Sang Wai was only surveyed for roosting Great Cormorants *Phalacrocorax carbo* in the evening of the January count. This area is fenced by land owner and there is not accessible to waterbird counters.

Results

Coverage of the Ramsar Site was complete in all months. For other sites in Deep Bay as a whole, only Nim Wan/Lau Fau Shan in February was not counted.

The results of the six counts are summarized in Table 1; results in full are provided in Appendix 1.

1 1	Area waterbiru C					Ê	
Group	Site	Oct	Nov	Dec	Jan	Feb	Mar
Cormorants	Ramsar Site	417	3602	5021	5980	2375	1180
	Deep Bay area	633	6534	5767	7959	3253	2005
	SI & SW	26	182	3*	88	2*	58
Ardeids	Ramsar Site	1412	2367	2563	2828	2485	1581
	Deep Bay area	3139	4412	4406	4702	4254	2505
	SI & SW	626	618	69*	475	97*	409
Ducks and grebes	Ramsar Site	2404	8134	6152	11210	10634	1851
	Deep Bay area	2447	11393	14827	20203	19541	2340
	SI & SW	0	17	0*	24	0*	6
Rails, Coots etc.	Ramsar Site	57	68	130	137	61	87
	Deep Bay area	97	97	219	213	150	147
	SI & SW	6	4	2*	6	1*	10
Waders	Ramsar Site	2006	7535	3423	7080	9439	1732
	Deep Bay area	2133	7859	4314	7527	9849	8172
	SI & SW	23	51	1*	59	15*	7
Gulls and terns	Ramsar Site	0	4059	9291	13037	1243	177
	Deep Bay area	0	4183	9503	13191	1444	1195
	SI & SW	0	0	0*	0	0*	0
Totals	Ramsar Site	6296	25765	26580	40272	26237	6609
	Deep Bay area	8449	34488	39036	53795	38491	16364
	SI & SW	681	872	75*	652	115*	494

Table 1. Deep Bay Area Waterbird Counts Winter 2002-2003 by groups and area.

SI & SW = Starling Inlet and Shuen Wan

* Numbers are only from Shuen Wan and no count from Starling Inlet.

Peak waterbird numbers in Deep Bay usually occur in January, and this winter a total of 53,795 waterbirds of 59 species were recorded in the Deep Bay Area; for the Ramsar Site alone this figure is 40,272. Numbers and trends of wintering waterbirds in Deep Bay area since 1979 are shown in Figure 1. It can be seen that numbers have become stabilized in a range of 50,000 to 55,000 since January 1998.

In order to gain a more accurate picture of the number of waterbirds that depend on Deep Bay for at least some part of the winter, and to counteract stochastic biases occurring as a result of using January count alone, the sum of peak species counts for the December to February can be used. The total this winter was 63,198 birds of 63 species, an increase over the January count of 9403, or approximately 17 %. The January count thus comprises only 85.1 % of the total winter count, which is the second lowest percentage since 1992-93.

The ten most numerous species in Deep Bay Area during winter 2002-2003 were: Black-headed Gull (12601), Great Cormorant (7959), Pied Avocet (5864), Northern Pintail (4381), Northern Shoveler (4271), Eurasian Wigeon (4080), Common Teal (3826), Marsh Sandpiper (1760), Little Egret (1653) and Great Egret (1421).

Species of conservation significance

A number of species that occur in the Deep Bay Area are of conservation significance due to their being listed as globally threatened by BirdLife International (2000), or because they are species for which Deep Bay supports or may support, at least 1% of regional or flyway population, as used for implementing the Ramsar Convention criterion 3c. These species were derived from the results of past waterbird counts by Carey and Young (1999), and were accorded this status according to the information in Rose and Scott (1997). Recent counts of these waterbird species were discussed in previous reports (Carey 2001, 2002). A recent published Waterbird Population Estimates – third edition (Wetlands International 2002) has updated the information regarding to '1% of regional or flyway population'. A brief review of these important waterbird species using this new data is provided below. Species in brackets were previously considered to have significant regional or flyway populations in the Deep Bay, but are now no longer included based on this new data. Status of any globally threatened species are placed after the species name.

Dalmatian PelicanPelcanus crispusConservation DependentA total of 14 individuals of this species wintered in Deep Bay. Population in EastAsia is estimated fewer than 130 individuals (Wetlands International 2002). Thisappears to be at least 11% of the regional or East Asia population.

Great Cormorant *Phalacrocorax carbo*

A peak of 7959 birds was counted in January 2003, which is also the second highest total of this species. The 1% threshold value is set at 1000 birds in the East Asia region (Wetland International 2002).

[Grey Heron Ardea cinerea

The peak count of 930 birds recorded in January, but the 1% threshold value of

the regional population is now set at 10,000 individuals (Wetlands International 2002).]

Great Egret Egretta alba

The peak winter count was 1421, which exceeded the 1% threshold value set by Wetlands International (2002) at 1000 individuals.

[Little Egret Egretta garzetta

The peak winter count was 1653, but the 1% threshold value is now set to 10,000 individuals (Wetlands International 2002).]

[Chinese Pond Heron Ardeola bacchus

The peak winter count was 307 in January, which is the highest of the last five winters. The number has been increasing from a low of 104 individuals in January 1999. No 1% threshold value was provided by Wetlands International (2002) because the population of this species is too uncertain, lying in the range 25,000 to 1,000,000 individuals.]

Black-faced SpoonbillPlatalea minorEndangeredA total of 234 was present in December count and 230 birds was recorded in theJanuary count; these figures comprise approximately 22% of the world population.The new world known population is estimated as 1069 from the latest InternationalBlack-faced Spoonbill Census 2003 (Yu 2003).

[Common Shelduck Tadorna tadorna

The peak winter count was only 192, which is the lowest since 1982. Numbers have fluctuated in the past but have been low since winter 2000-01, and the 5-years mean is only 658 birds and the mean of all counts is 1163 birds. The 1% regional or flyway population is set at 1300 individuals (Wetlands International 2002).]

[Eurasian Wigeon Anas penelope

The peak winter count of 4080 was recorded in January, which is the second highest of the last five winters; the highest was 6705 in January 2001. In contrast to previous winters which had approximately 70% of birds recorded in Futian (Carey 2002), approximately 45% and 28% were recorded in Tsim Bei Tsui area and Mai Po Nature Reserve, while only 23% were counted from Futian. The 1% threshold of regional population is set at 7500 birds (Wetlands International 2002).]

[Common Teal Anas crecca

The peak count of 3826 in January is relatively high compared to recent years, which have showed an increase from low counts of 2509 on January 2001 and 3147 on January 2002. The 1% regional population is now set at 8000 individuals (Wetlands International 2002)]

[Northern Pintail Anas acuta

The peak winter count of 4381, recorded in January, shows that number of this species is higher than the January 2001 count, which is in similar case as Eurasian Wigeon. The 1% regional population is set to 7,500 (Wetlands International 2002).]

[Northern Shoveler Anas clypeata

The peak winter count of 4271 was recorded in February. Most birds were recorded in the intertidal area, with 1136 (27%) and 2450 (57%) at Futian and Mai Po boardwalk respectively. The 1% regional population is set at 7,500 (Wetlands International 2002).]

Baer's PochardAythus baeriVulnerableTwo individuals of this globally threatened species were recorded in December.

[Eurasian Coot Fulica atra

A total of only 54 recorded in December which was also the peak count in this winter. Similar to the count in last winter, which was only 10% of the previous highest (534) in winter 2000-01, and 1.6% of the historical peak number (3295) in 1992. Counting condition in intertidal area of Deep Bay has become more difficult that may underestimate the number of this species. However, low numbers present in the last two winters may indicate that a population of this species may be declining, and attention should be paid to it in future years. No 1% threshold value of regional population of this species is set because the estimated population is in the range 100,000 to over 1,000,000 (Wetlands International 2002).]

Pied AvocetRecurvirostra avosetta

An astonishing peak winter count of 5846, a new high for Hong Kong, was recorded in February, is nearly three times the previous peak number (2045). A total of 67 birds were recorded in October. Then the number became high over the winter reaching 2156 in November, 2079 in December, 2985 in January, with 3700 remaining in March. The 1% regional population is set to 1000 (Wetlands

International 2002). Therefore, these numbers constitute 2% to nearly 6% of the regional population.

[Grey Plover Pluvialis squatarola

The peak winter count of 295, recorded in January, is similar to last winter. The number has remained low since winter 1998-99. The 1% regional or flyway populations is now set at 1300 (Wetlands International 2002).]

Kentish Plover Charadrius alexandrinus

The peak winter count of 378 was recorded in November, with only 5 in October, 20 in January, 8 in March, and no records in December or February. All these numbers are considered not to accurately represent the actual number of this species in the Deep Bay area; instead, they reflect the difficulties of making accurate counts of the wintering flock of small waders. This species and Dunlin are usually present in large number on the intertidal mudflats from Mai Po boardwalk when tide is low. Viewing conditions on the count days in November, December and January were unfavourable due to a low high-tide level and poor visibility due to atmospheric conditions. The 1% regional population is set at 1000 (Wetlands International 2002); with a five-year mean for the period 1997 to 2001 of 1935, this constitutes nearly 2% of the regional population.

[Black-tailed Godwit Limosa limosa

The peak winter count of 340, recorded in February, is similar to number of last winter. This figure is the second highest winter count of this species. A total of 440 was counted in November, but these might have included some passage individuals. The 1% regional population is set at 1600 (Wetlands International 2002).]

Eurasian Curlew Numenius arquata

The peak winter count was 1014 in February is close to the historical peak figure of 1190. It is also the first count to exceed 1000 since winter 1993-94. The regional population is estimated at 35,000 and the 1% threshold value is set at 350 (Wetlands International 2002). Therefore, this constitutes approximately 3.9% of the regional population.

Spotted Redshank Tringa erythropus

The peak winter count of 450 in February was only 18% of the highest winter number (2500) in last winter. A total of 601 were recorded in November, but some

Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site - Winter 2002-2003 Report

other wintering individuals should have arrived later on. Such a low count is probably the result of birds roosting outside Mai Po and the relatively low high-tide level during the January count. That this species was underestimated this winter is further indicated by counts of 674 and 1093 birds in a mixed flock of this species and Common Greenshank in December and January respectively. The 1% regional or flyway population is set to 1000 (Wetlands International 2002). Deep Bay should have a significant regional or flyway population of this species.

Marsh Sandpiper Tringa stagnatilis

The peak winter count of 1760 in February is a new high for the winter numbering Hong Kong. This is an increase of 50% above the count obtained in winter 2000-01, though no representative number was made in winter 2001-02. The total regional or flyway population is estimated at 90,000 individuals, and the 1% threshold value is thus set at 900 (Wetlands International 2002). Hence, this constitutes approximately 2% of the regional population.

Common Greenshank Tringa nebularia

The peak winter count of only 67 birds in February is not representative of the true numbers present. More large waders *Tringa* were counted in December and January (see Spotted Redshank). The 1% regional or flyway population is set at 550 (Wetlands International 2002). Although only 290 and 376 were counted in winter 2000-01 and winter 2001-02 respectively, a high number of 885 were recorded in January 1995 and it is likely that in some winters at least, Deep Bay supports 1% or more of the regional population.

Nordmann's GreenshankTringa guttiferEndangeredOne recorded in February is presumed to be an over-wintering individual.

[**Dunlin** Calidris alpina

The peak winter count of 11 in January is extremely low, and almost certainly is not representative of the true numbers present. The situation is similar to that of last winter and, as with Kentish Plover, is caused by a combination low 'high-tide' levels and poor visibility. The five-year mean of 1997-2001 is 2312. The 1% regional or flyway population is set to 10,000 (Wetlands International 2002); assuming Deep Bay actually supports 3000 birds in most winters, this shows the threshold level is not reached. Hong Kong wintering population lies at the southern edge of the wintering range, this is reflected in the result of the counts.]

Saunders's Gull Larus saundersi

Vulnerable

The peak winter count was 35 in February. Numbers have declined since the peak of 172 in 1993-94, and have remained low (31 to 70 birds) in the last five years. The whole population is estimated at 7100 to 9600 and 1% threshold value is set at 85 (Wetlands International 2002).

[Black-headed Gull Larus ridibundus

The peak winter count of 12,601 in January is slightly lower than figures obtained in the last two winters, but similar to the five-year mean (12271). The population of this species is estimated to lie in a large range of 100,000 to over 1,000,000 individuals, and no 1% threshold value has been set to this scale of population due to uncertainty (Wetlands International 2002).]

Other notable counts

Falcated DuckAnas falcata

The peak winter count of five birds recorded in January is the first record since winter 2000-01. The status of this species is increasingly attracting concern since its near disappearance in Hong Kong was first noted. This species may be suffering a population decline as numbers are decreased in Japan, South Korea and Taiwan, while its status is largely unknown in mainland China (Simba Chan *in litt.*).

Other observations

Mudskipper collectors

Illegal mudskipper collectors continued to be seen operating on the mudflats on the Hong Kong side of Deep Bay in March. Their presence causes significant disturbance of both foraging and roosting waterbirds.

Other disturbance

The number of waterbirds in Futian (Deep Bay A) has increased in the last few years. Staffs at Futian National Reserve prohibit fishermen or mudskipper collectors from entering the intertidal mudflat and mangrove area. Fishing nets were removed in the area as well. Such enforcement is welcome.

Conclusion

The total number of waterbirds in winter 2002-03 was 63,198. This number has stabilised in the range of 57,000 to 64,000 since 1997-98, after a peak of 77,227 in winter 1995-96. This winter's number is also higher than the previous two winters and

this is an encouraging development. On the other hand, counting conditions have become difficult because the rise of mudflat level as a result of sedimentation results in flood tides that are increasingly unable to push waterbirds close to Mai Po Boardwalk hide for counting. Some ducks and waders species (e.g. Northern Pintail, Northern Shoveler, Kentish Plover and Dunlin) were not counted at all on the scheduled January count date.

In contrast to the slight increase in the total number of waterbirds, species like Common Shelduck, Eurasian Coot and Saunders's Gull exhibit a decreasing trend that may be a cause for concern. The re-appearance of Falcated Duck is welcome, but it is still far fewer than previous wintering numbers in Deep Bay.

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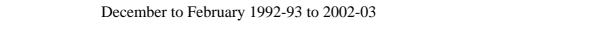
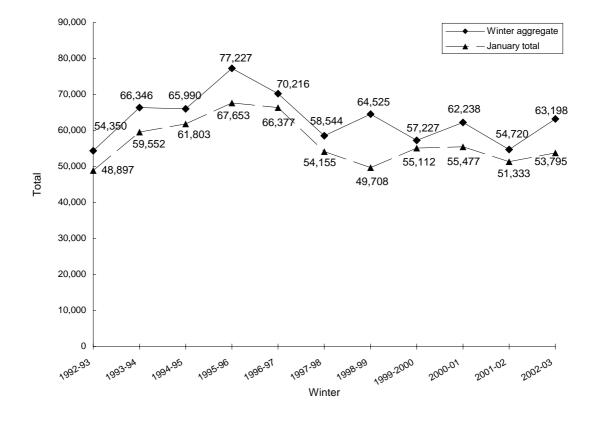
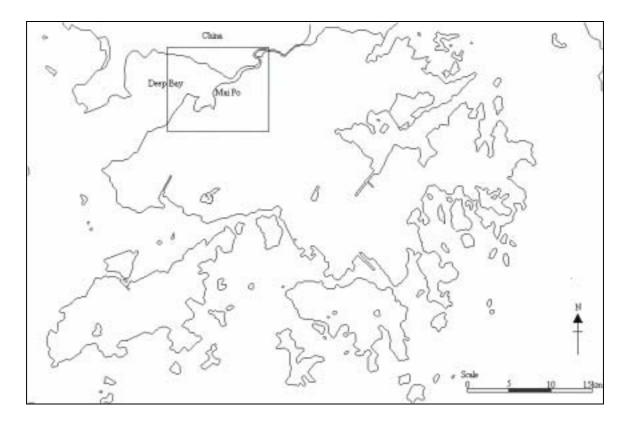
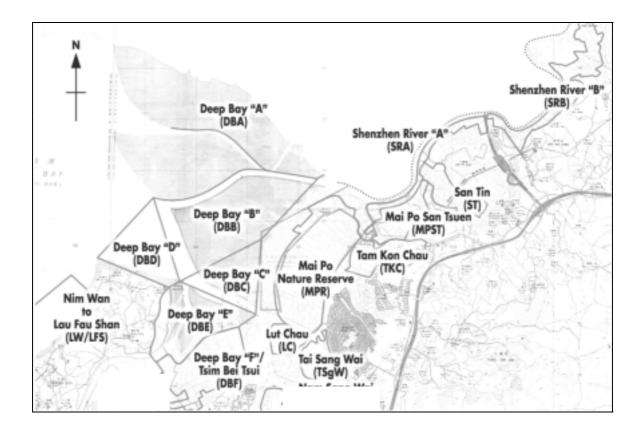


Figure 1. January waterbird count totals and aggregate of peak species counts





Map 1. Map of Hong Kong showing location of the Mai Po Inner Deep Bay Ramsar Site



Map 2. Locations of count sites of the Waterbird Monitoring Programme

Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Winter 2002-2003 Report

APPENDICES



The Hong Kong Bird Watching Society Limited



Agriculture, Fisheries and Conservation Department

Counts of waterbird in October 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тsw	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	9	10	2					33		8	0	0	10	0	21	46	0	67	93		
Great Crested Grebe															0			0	0		
Great Cormorant	42	26	114					7		0	3	22	33	37	349	68	0	417	633		26
Dalmatian Pelican															0			0	0		
Grey Heron	34	73	199		8	2	43	60	1	13	6	5	5	36	206	43	89	338	691	8	57
Purple Heron		1													3			3	4		
Great Egret	6	61	431	31	6	15	62	91		0	0	7	11	11	111	35	181	327	843	47	312
Intermediate Egret	0	0						0		0	0	0	0	0	14	0	0	14	14	5	2
Little Egret	13	96	388		12	29	70	197	14	1	5	18	14	16	205	197	130	532	1078	42	114
Pacific Reef Egret															0			0	0		
Cattle Egret	6	1						11		22	0	15	1	7	8	35	0	43	71		5
Chinese Pond Heron	15	51	116		1	1	2	9	3	48	3	24	12	22	34	82	6	122	341	8	14
Striated Heron	0	0						0		2	0	0	0	0	2	2	0	4	4	1	
B-c Night Heron	1	8	48					1		2	0	2	16	1	5	19	0	24	84	2	9
Yellow Bittern	2	1	1					0		0	0	0	0	0	0	0	0	0	4		
Cinnamon Bittern															0			0	0		
Great Bittern															0			0	0		
Unidentifired ardeids													4		0	4		4	4		
Black Stork															0			0	0		
Black-headed Ibis															0			0	0		
Eurasian Spoonbill															0			0	0		
Black-faced Spoonbill	1				1	1									1			1	1		
Common Shelduck															0			0	0		
Eurasian Wigeon	0	0	8					0		0	0	0	0	0	137	0	0	137	145		
Falcated Duck					1										0			0	0		
Gadwall		1												1	0			0	0		
Baikal Teal	1					1									0			0	0		
Common Teal	10	0		41	16		22	0		0	0	1	0	0		2	79	194	203		
Mallard								ŭ							0			0	0		
Spot-billed Duck		1												1	0			0	0		
Chinese Spotbill					1								1		5			5	5		
Burmese Spotbill															0			0	0		
Northern Pintail				100	1								1		139		100	239	239		
Garganey				100			4								63		4	67	67		
Northern Shoveler				450	1								1		11		450	461	461		
Common Pochard															0			0	0		
Baer's Pochard														+	0			0	0		
Tufted Duck													-		0			0	0		
Greater Scaup															0			0	0		
Red-breasted Merganser															0			0	0		
															1234			1234	1234		
Duck sp.															1234			1234	1234		
Slaty-breasted Rail															0			0			
Water Rail					+										0				0		
Ruddy-breeasted Crake	-	-	-					_		1	-	-	-				_	0	1		
White-breasted Waterhen	2	6	3					5	1	3	0	2	0	1	2		0		25		5
Watercock	_				+						-		-	-	0			0	0		
Common Moorhen	7	9	1					16		5	0	0			29		0	43	69		1
Eurasian Coot													2		0			2	2		
Pheasant-tailed Jacana	2														0			0	2		

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

1

Counts of waterbird in October 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тsw	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Black-winged Stilt	18		4					3		1				1	173	3		176	200		
Pied Avocet															67			67	67		
Oriental Pratincole															0			0	0		
Northern Lapwing															0			0	0		
Grey-headed Lapwing															0			0	0		
Pacific Golden Plover															28			28	28		
Grey Plover															34			34	34		
Common Ringed Plover															0			0	0		
Little Ringed Plover	0	6	12					23		1	0	17	33	5	4	74	0	78	101		
Kentish Plover	5														0			0	5		
Lesser Sand Plover															0			0	0		
Greater Sand Plover															0			0	0		20
Black-tailed Godwit										1					385			385	385		
Bar-tailed Godwit					1										0			0	0		
Whimbrel				1						1					0			0	0		1
Eurasian Curlew	1		1		1					1					50			50	51		1
Far Eastern Curlew	1			1		1				1					0			0	0		1
Spotted Redshank										1					12			12	12		
Common Redshank	3									1					48			48	51		<u> </u>
Marsh Sandpiper							14			1					633		14		647		
Common Greenshank	2				1		5			1					344		5		351	2	
Nordmann's Greenshank	<u> </u>						5								0			<u>349</u> 0	0	2	
		7				1	1	4		4	0	5	3	3 2	1		1	22	37		+
Green Sandpiper	5						1	6		·	1	1									
Wood Sandpiper	11	0						6		11	1	1	0	0 0			0		48		
Terek Sandpiper											7				0			0			<u> </u>
Common Sandpiper	5	14	4					20		12	/ /	8	6	5 11	11				98		1
Grey-tailed Tattler								5							0			5	5		
Ruddy Turnstone				+														0	0		
Red-necked Phalarope		·													0			0	0		
Pintail Snipe										ļ					0			0	0		
Swinhoe's Snipe															0			0	0		
Common Snipe											2				3			5	5		
Long-billed Dowitcher															0			0	0		
Asian Dowitcher															0			0	0		
Red Knot															0			0	0		
Great Knot															3			3	3		
Sanderling															0			0	0		
Red-necked Stint					ļ										0			0	0		
Temminck's Stint															0			0	0		
Long-toed Stint										l					0			0	0		
Sharp-tailed Sandpiper					ļ					ļ			ļ		1			1	1		ļ
Dunlin										ļ					0			0	0		
Curlew Sandpiper															1			1	1		
Spoon-billed Sandpiper															0			0	0		
Broad-billed Sandpiper															0			0	0		
Ruff															1			1	1		
Wader sp.															0			0	0		
Black-tailed Gull															0			0	0		
Heuglin's Gull					1	1				1					0			0	0		1

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Counts of waterbird in October 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Yellow-legged Gull															0			0	0		
Slaty-backed Gull															0			0	0		
Pallas's Gull															0			0	0		
Brown-headed Gull															0			0	0		
Black-headed Gull	0	0						0		0	0	0	0	0			0		0		
	0	0						0		0	0	0	0	0			0				
Saunders's Gull															0			0	0		
Whiskered Tern															0			0	0		
White-winged Tern															0			0	0		
Gull-billed Tern															0			0	0		
Caspian Tern															0			0	0		
Total	198	370	1332	622	43	47	223	491	19	134	27	127	150	152	4514	723	1059	6296	8449	115	566
	Deep Bay Area	%	Ramsar Site	%	sw	SI															
Cormorants	633	7.5	417	6.6	0	26															
Ardeids etc	3139	37.2	1412	22.4	113	513															
Ducks, grebes, pelicans	2447	29.0	2404	38.2	0	0															
Rails, Coot etc	97	1.1	57	0.9	0	6															
Waders	2133	25.2	2006	31.9	2	21															
Gulls and terns	0	0.0	0	0.0	0	0															
TOTAL	8449	100	6296	100	115	566															
Date of count: 20 Oct 2002																					
n/c = site not counted		High tide	measured	at TBT:																	
# indicates count consists of o					aithar sida	of the cou	int date														
		a count n	ade up to o	IIE WEEK	enner side	or the cou	ini uate														
% = count made at evening ro	ost																				
Wetland-dependant species																					
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey	1														4			4			1
Black Kite	2	8						28		0	0	2	5	5							
White-bellied Sea Eag Eastern Marsh Harrier								1							0			1	1		
Common Buzzard	1														0			2	3		
Greater Spotted Eagle	0	0						0		0	0	0	1	0			0		1	I	
Imperial Eagle	0	0						0		0	0	0	0						0		
Common Kestrel															1			1	1		
Peregrine Falcon															1			1	1		
Unidentified Falcon												0	1		0			1	1 16		
Pied Kingfisher Common Kingfisher	0	5 11						2		0	0	7							16		2
White-throated Kingfisher	2	5					2			1	0	2							44		
Black-capped Kingfisher	0	0					2			0	2								17		
Red-billed Starling	14	0						0		0	0	0			0	0	2	2	16		
Collared Crow	2	0						9		0	0	0	0	0	1	9	0	10	12	16	

Counts of waterbird in November 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	7	15	5					27		10	0	7	7	5	24	38	0	62	107	1	5
Great Crested Grebe															0			0	0		
Great Cormorant	224	265	2385				21	155		0	6	13	86	53	3326	162	114	3602	6534	1	181
Dalmatian Pelican															0			0	0		
Grey Heron	155	51	140	1	36	1	122	98		15	10	8	4	56	390	46	222	658	1087	19	94
Purple Heron															0			0	0		
Great Egret	23	13	464	1	85	3	124	159		29	4	4	3	31	108	59	296	463	1051	28	286
Intermediate Egret	2	0						1		7	1	0	0	0	7	9	0	16	18		1
Little Egret	4	21	433	16	61	10	127	558	31	137	6	23	1	148	69	583	245	897	1645	7	151
Pacific Reef Egret															0			0	0		
Cattle Egret	0	0					3	47		0	1	0	0	1	0	40	9	49	52		13
Chinese Pond Heron	12	31	114				7	34		29	2	13	4	23	15	48	26	89	284	8	7
Striated Heron	0	0						0		0	0	0	0	0	0	0	0	0	0		
B-c Night Heron	0	18						0		0	0	0	0	0	56	0	0	56	74	3	1
Yellow Bittern	2	0						0		0	0	0	0	0	0	0	0		2		
Cinnamon Bittern															0			0	0		
Great Bittern							1								0		1	1	1		
Black Stork															0			0	0		
Black-headed Ibis															0			0	0		
Eurasian Spoonbill															2			2	2		
Black-faced Spoonbill			17	1	53		27			29				14	55		81	136	196		
Common Shelduck	1			6	1										0		6	6	6		
Eurasian Wigeon	109	0	483			2	76	8		1	0	1	0	32	1685	1	156	1842	2467		
Falcated Duck											ŭ	· · · ·	1		0			0	0		
Gadwall															0			0	0		
Baikal Teal	+												1		0			0	0		
Common Teal	0	0	42	5			102	4		26	0	0	0	11	946		107	1053	1136		11
Mallard	+						102			20		, second	†		040		10/	0000	0		
Spot-billed Duck															0			0	0		
Chinese Spotbill	5														32			32	37		
Burmese Spotbill													1		0			0	0		
Northern Pintail	18		424	370	110		31								599		511	1110	1552		
Garganey	10		424	1	110		51								26		1	27	27		
Northern Shoveler	62		718		40		17	12							20		1763	1784	2576		
Common Pochard	02		710	1700	40		17	12							0		0	0	2570		
Baer's Pochard															0		0	0	0		
			0.40			17									0		18				
Tufted Duck	-		242			17		1							0		18	18	260		
Greater Scaup																		0	0		
Red-breasted Merganser			4005												0				0		
Duck sp.			1025		2200										0		2200	2200	3225		
Slaty-breasted Rail															1			1	1		
Water Rail														-	0			0	0		
White-breasted Waterhen	1	1	2					1	1	1	1	2	1	0	1		0		12		
Watercock															0			0	0		
Common Moorhen	2	13	5					4		4	0	0	4	0	37		0		69		4
Eurasian Coot															15			15	15		
Pheasant-tailed Jacana												ļ			0			0	0		
Black-winged Stilt			3												1			1	4		
Pied Avocet				2143				4		8					1		2147	2148	2156		1

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

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Counts of waterbird in November 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Oriental Pratincole															0			0			
Northern Lapwing															0			0	0		
Grey-headed Lapwing	_							1							0	1		1	1		
Pacific Golden Plover				186											0		186	186	186		
Grey Plover				150											0		150	150	150		4
Common Ringed Plover															0			0	0		
Little Ringed Plover	1	4	3					7		20	0	21	0	0	0	40	0	40	56		
Kentish Plover				378											0		378	378	378	5	2
Lesser Sand Plover															0			0	0		
Greater Sand Plover															0			0	0		
Black-tailed Godwit				440											0		440	440	440		
Bar-tailed Godwit				1											0		1	1	1		
Whimbrel				1											0		1	1	1		
Eurasian Curlew				126					2						0		126	126	128		1
Far Eastern Curlew															0			0			
Spotted Redshank				478			42			75					6		520	526	601		
Common Redshank			3	56			4								0		60	60	63		
Marsh Sandpiper				1430			36			1					0		1466	1466	1467		
Common Greenshank			63				2			15					13		457	470			1
Nordmann's Greenshank	1											1			0			0			
Green Sandpiper	0	8						1		10	3	4	3	3	2		0				1
Wood Sandpiper	0		89			1		0		10		0	1		5						·
Terek Sandpiper		'	03			1		0		10	'		0		0						
Common Sandpiper	0	6	4			8		18		13	19	12	4	7	1		8	70			1
Grey-tailed Tattler		0	4			0		10		13	19	12	4	/	0		0				
Ruddy Turnstone	+													1	0			0			
Red-necked Phalarope	+									<u> </u>				<u> </u>	0			0			
Pintail Snipe	+									1					0			0			
	-					+				+					0			0			
Swinhoe's Snipe	+									-					0						
Common Snipe	+	1								1				-	0			0			
Long-billed Dowitcher Asian Dowitcher	+														0			0			
	+														1						
Red Knot															0		-	0			
Great Knot	-			7											0		7	7			
Sanderling	-														0			0			
Red-necked Stint	-			8											0		8	8			
Temminck's Stint															0			0			
Long-toed Stint											1				0			0			
Sharp-tailed Sandpiper	_														0			0			
Dunlin				1430						ļ					0		1430	1430			ļ
Curlew Sandpiper										ļ					0			0			
Spoon-billed Sandpiper										ļ		ļ			0			0			
Broad-billed Sandpiper										ļ					0			0	0		
Ruff										ļ	ļ	ļ	ļ		0			0	0		
Wader sp.										ļ					0			0	0		34
Black-tailed Gull															0			0	0		
Heuglin's Gull				8											0		8	8	8		
Yellow-legged Gull															0			0	0		
Slaty-backed Gull															0			0	0		

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Counts of waterbird in November 2002

Deep Bay Area w Ramsar Site % SW SI L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L <thl< th=""> <thl< th=""> <thl< th=""> <thl< th=""></thl<></thl<></thl<></thl<>	SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Back-hand Gold 9 0 54 388 73 73 70 0 0 70 0 000 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700 700	Pallas's Gull															0			0	0		
Sanders Out of the second of the seco	Brown-headed Gull															0			0	0		
Sanders Oull Sanders Oull Sanders Oull Sanders Oull Sanders Oull Sanders Sanders	Black-headed Gull	9	0	54	3848	73			100		0	0	0	0	70	0	100	3921	4021	4154		
Wniskeyar Ten Vin Vin Vin Vin </td <td>Saunders's Gull</td> <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Saunders's Gull															0						
with with with with with with with with																						
Guilandam Image		-																				
Caspan Tom Caspan Tom </td <td></td>																						
Total 668 649 679 120 549 649 550 169 170 645 1700 2576 3448 77 Car Car </td <td></td> <td></td> <td> </td> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>				4																		
Deep By Area N Ranser N SN SI L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L L <thl< th=""> L <thl< th=""></thl<></thl<>			-	· · · ·																		
bay As	Total	636	448	6719	13332	2678	41	742	1240	34	440	55	108	117	454	7444	1221	17100	25765	34488	73	799
Ardeids etc 4442 12.73 22.87 9.1869 655 553 <			%		%	sw	SI															
Dicks, grebes, pelicans 11333 33.335 814 31.57 1 16 <	Cormorants	6534	18.946	3602	13.98	1	181															
Rais, Coot etc. 97 0.2813 68 0.639 0 4	Ardeids etc	4412	12.793	2367	9.1869	65	553															
Rais, Coot etc. 97 0.2813 68 0.639 0 4	Ducks, grebes, pelicans	11393	33.035	8134	31.57	1	16				1											
Waders 788 22.788 733 29.245 6 45 .											1											
Guils and terms 4193 12,158 4059 15,754 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																						
TOTAL 34488 100 25765 100 73 799																						
Image: constraint of constr																						
n/c = site not counted High tide measured at TBT: Image: TBT: <	TOTAL	34488	100	25765	100	73	799															
# indicates count consists of or includes a count made up to one week either side of the count date Image: count made at evening roost	Date of count: 2002																					
# indicates count consists of or includes a count made up to one week either side of the count date Image: count made at evening roost	n/c = site not counted		Hiah tide	measured	at TBT:						1											
% = count made at evening root Image at		or includes				either side	of the cou	unt date			1											
Methand-dependant species Image: Marking the species Methand the species </td <td></td> <td>1</td> <td></td>											1											
SRA SRA SRA SRA DBA DBB DBC DBB DBE DBF NW / LFS TKC LC TSW MPNR Ramsar points Ramsar points <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>																						
SRA SRA DBA DBA DBD D	Wetland-dependant specie	s																				
Osprey I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <td>Snecies</td> <td>SRA</td> <td>SRB</td> <td>DBA</td> <td>DBB</td> <td>DBC</td> <td>DBD</td> <td>DBE</td> <td></td> <td></td> <td>ткс</td> <td>LC</td> <td>тѕѡ</td> <td>MPST</td> <td>ST</td> <td>MPNR</td> <td></td> <td>intertidal</td> <td></td> <td>BAY</td> <td></td> <td>Starling Inlet</td>	Snecies	SRA	SRB	DBA	DBB	DBC	DBD	DBE			ткс	LC	тѕѡ	MPST	ST	MPNR		intertidal		BAY		Starling Inlet
Black Kite 1 4 7 15 94 108 3 White-bellied Sea Eag 0 4 2 1 4 4 75 15 94 108 3 Eastern Marsh Harrier 1 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <t< td=""><td></td><td></td><td></td><td>1</td><td></td><td>2</td><td></td><td>1</td><td>1</td><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td>3</td><td></td><td></td><td>3</td><td></td><td></td><td>1</td></t<>				1		2		1	1		1	1				3			3			1
Eastern Marsh Harrier 1 1 1 1 1 2 1 2 1 2 5 1 Common Buzzard 0 1 1 2 0 1 1 2 1 3 3 1 3 3 1 Common Buzzard 0 0 1 1 2 0 0 2 1 3 3 1 Imperial Eagle 1 1 0 0 0 0 0 0 2 0 0 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	4					3	85		0	4	2	1	4	4	75	15	94	108	3	
Common Buzzard Imperial Eagle O O Imperial Fagle O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O <td></td>																						
Greater Spotted Eagle 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1								Į				1							
Imperial Eagle 1 1 0 0 0 0 0 0 2 0 2 4 Common Kestrel - - 1 - - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - 1 1 - - - 1 1 - - 1 1 - - 1 1 - - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td>2</td><td>2</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></t<>								1		2	2										1	
Common Kestrel Image: Common Kestrel <td></td> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td>		0										-										
Peregrine Falcon O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O O		+1	<u>├</u> ─── <u>`</u>								+0	0	0		0	2	0	0				
Pied Kingfisher 0 0 5 2 0 0 0 0 3 0 3 10 Common Kingfisher 4 12 1 2 8 1 5 7 5 8 23 0 31 53 1 White-throated Kingfisher 1 2 7 3 2 0 2 0 2 6 2 10 19 2 Back-capped Kingfisher 0 1 2 0 0 0 0 0 0 3 1													1			1						
Common Kingfisher 4 12 1 2 8 1 5 7 5 8 23 0 31 53 1 White-throated Kingfisher 1 2 7 3 2 0 2 0 2 6 2 10 19 2 Black-capped Kingfisher 0 1 2 0 0 0 0 0 0 0 3 1		0	0	5					2		0	0	}	0	0			0				
White-throated Kingfisher 1 2 7 3 2 0 2 0 2 6 2 10 19 2 Black-capped Kingfisher 0 1 2 0 0 0 0 0 0 0 0 3 1								1													1	6
Black-capped Kingfisher 0 1 2 0 0 0 0 0 0 0 3 1		1									2	0									2	
Ped billed Starling 0 0 10 10 10 10 10 10 10 10 10 10 10 10																· · · · · · · · · · · · · · · · · · ·						
Reconded stating 0 0 10 39 0 49 135 2 159 436 100 Collared Crow 0 1 2 28 0 2 0 0 0 22 254 276 33 2 2	Red-billed Starling	0						250			0										100	

Counts of waterbird in December 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	48	13	10					26		13	1	9	6	1	28	38	1	67	155		
Great Crested Grebe			12						107						44			44	163		
Great Cormorant	32	337	291				70	25		68	3	29	60	48	4804	146	71	5021	5767	3	
Dalmatian Pelican															0			0	0		
Grey Heron	15	44	243	6		1	180	45	17	13	9	14	3	16	231	55	197	483	837	17	
Purple Heron															5			5	5		
Great Egret	5	16	346	221	60	4	153	15	25	17	1	16	3	13	262	32	442	736	1157	23	
Intermediate Egret	0	0						0		0	0	0	0	0	1	0	0	1	1		
Little Egret	79	129	498	174	120	8	236	76	118	7	6	35	17	13	137	167	542	846	1653	18	
Pacific Reef Egret															0			0	0		
Cattle Egret	6	0						5		46	20	9	28	0	4	107	0	111	118		
Chinese Pond Heron	12	19	72	6		3	1	11	14	35	3	9	2	16	23	40	13	76	226	6	
Striated Heron	0	0						0		0	0	0	0	0	0	0	0	0	0	1	
B-c Night Heron	0	14	5					1		0	0	0	1	0	51	2	0	53	72	3	
Yellow Bittern	0	0						0		0	0	0	0	0	0	0	0	0	0		
Cinnamon Bittern															0			0	0	1	
Great Bittern															0			0	0		
Unidentified Ardeids													103		0			103	103		
Black Stork															0			0			
Black-headed Ibis															0			0			
Eurasian Spoonbill															0			0	0		
Black-faced Spoonbill			25				55		2				3		149			149	234		
Common Shelduck				9									1		0		9		9		
Eurasian Wigeon	180	51	345		20			43		115	0	0	0	0	586	64			1340		
Falcated Duck	2		0.0								ŭ				000			0	2		
Gadwall													1		0			0	0		
Baikal Teal													1		0			0			
Common Teal	16	79	38				140	33		23	0	0	7	0		3	172		1251		
Mallard								00			ÿ		· · ·		0.0			0			
Spot-billed Duck													1	2	2			2	4		
Chinese Spotbill	6												1		35			35	41		
Burmese Spotbill															0			0	0		
Northern Pintail	30	14	620		20		673	20		45			1		787	2	20		2209		
Garganey	00		020		20		010	20		3					34		20	34	37		
Northern Shoveler	21	1	1763		80		20	10		7					34		10		1936		
Common Pochard	21		1100		00		20	10		,					0		10	0	0		
Baer's Pochard															2			2	2		
Tufted Duck	25								1040	7					84			84	1156		
Greater Scaup	20								1040	· · · ·					04			04	0		
Red-breasted Merganser															0			0	0		
Duck sp.	80		3210	3232											0		3232	3232	6522		
Slaty-breasted Rail	00		3210	1											0		3232	3232	1		
Water Rail															0			0	· · ·		
	0	0	1					2	1	2	0	0	0	0			0				
White-breasted Waterhen	0	0	1					2	1	2	0	0	0	0			0				
Watercock												-	-	-	0		_	0		-	
Common Moorhen	14	43	1	4		1		23		40	0	0	1	0		55	5		156	2	
Eurasian Coot	3	6										1			44			44	54		
Pheasant-tailed Jacana		-													0			0	0		
Black-winged Stilt	4	2											1		0			0	6		

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

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Counts of waterbird in December 2002

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Pied Avocet	1		629	1240	190		18			1					0		1448	1448	2079		
Oriental Pratincole															0			0	0		
Northern Lapwing															0			0	0		
Grey-headed Lapwing								1							0		1	1	1		
Pacific Golden Plover				230											0		230	230	230		
Grey Plover				134	30										0		164	164	164		
Common Ringed Plover															0			0	0		
Little Ringed Plover	0	7					20	31	10	26	0	0	0	4	0	27	22	49	98		
Kentish Plover															0			0	0		
Lesser Sand Plover															0			0	0		
Greater Sand Plover															0			0	0		
Black-tailed Godwit				150											0		150	150	150		
Bar-tailed Godwit															0			0	0		
Whimbrel															0			0	0		
Eurasian Curlew				260	60		110		3						0		430	430	433		
Far Eastern Curlew															0			0	0		
Spotted Redshank			4												0			0	4		
Common Redshank			105												0			0	105		
Marsh Sandpiper						1				3			1		0	2		2			
Common Greenshank			23					3	5						0						
Nordmann's Greenshank															0			0	0		
Green Sandpiper	3	4				1		1		10	2	1	8	2	0		1	18	32		
Wood Sandpiper	4	1					1	4		3		0	1		0			8			
Terek Sandpiper															0			0			
Common Sandpiper	2	3	1			1		16	3	16	13	8	14	3	2		3		82	1	
Grey-tailed Tattler														ŭ	0			0		·····	
Ruddy Turnstone	1														0			0			
Red-necked Phalarope	+														0			0	0		
Pintail Snipe															0			0			
Swinhoe's Snipe	1														0			0	0		
Common Snipe	1							4		4			5	1	0		1	6	14		
Long-billed Dowitcher															0			0	0		
Asian Dowitcher															0			0	0		
Red Knot	-														0			0	0		
Great Knot															0			0	0		
Sanderling	-														0			0	0		
Red-necked Stint															0			0	0		+
Temminck's Stint	+							14							0			2	14		+
Long-toed Stint	-							14							0			2	14		
Sharp-tailed Sandpiper															0			0	0		
Dunlin															0			0			
															0			0	0		
Curlew Sandpiper															0			0			
Spoon-billed Sandpiper	+																	······			+
Broad-billed Sandpiper	+														0			0	0		
Ruff															0			0			
Wader sp.				674	180										0		854	854	854		
Black-tailed Gull															0			0	0		
Heuglin's Gull	+			65			3								0		68	68	68		+
Yellow-legged Gull				1											0		1	1	1		

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Counts of waterbird in December 2002

Deck Deck <thdeck< th=""> Deck Deck <thd< th=""><th>SPECIES</th><th>SRA</th><th>SRB</th><th>DBA</th><th>DBB</th><th>DBC</th><th>DBD</th><th>DBE</th><th>DBF (TBT)</th><th>NW / LFS</th><th>ткс</th><th>LC</th><th>тѕѡ</th><th>MPST</th><th>ST</th><th>MPNR</th><th>Ramsar ponds</th><th>Ramsar intertidal areas</th><th>Ramsar Site</th><th>DEEP BAY AREA</th><th>Shuen Wan</th><th>Starling Inlet</th></thd<></thdeck<>	SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Sourt-Asside Gul Image: Markey of Gul Image: Markey	Slaty-backed Gull				1											0		1	1	1		
Back-hased Gul 99 0 105 900 1 900 1 920 921 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923 923	Pallas's Gull															0			0	0		
Back-hased Gul 99 0 105 900 1 900 1 920 921 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 943 1 1 943 1 943 1 1 943 1 1 943 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <th1< th=""> <th1< th=""> 1 <</th1<></th1<>	Brown-headed Gull															0			0	0		
Sameders Oull Image Term Imag		30	0	163	8000			1220	0	10	0	0	0	1	0			0220				
vinise origination vinise originatinteracori vinise originatinteracorigination <td></td> <td></td> <td> ŭ</td> <td>100</td> <td>0000</td> <td></td> <td></td> <td>1220</td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td>·</td> <td></td> <td></td> <td></td> <td>5220</td> <td></td> <td></td> <td></td> <td></td>			ŭ	100	0000			1220		10				·				5220				
winis-winis-winis-wise-wise-wise-wise-wise-wise-wise-wi																						
Gal-Bial Term Image																						
Caspan Tern		ļ	ļ										ļ	ļ					0			
Total 662 782 8429 1448 760 190 609 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 509 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500	Gull-billed Tern															0			0	0		
Image: Second	Caspian Tern															0			0	0		
bay Ara n Sto n Sto n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n n <th< td=""><td>Total</td><td>627</td><td>782</td><td>8412</td><td>14408</td><td>760</td><td>19</td><td>2900</td><td>409</td><td>1355</td><td>504</td><td>59</td><td>131</td><td>265</td><td>119</td><td>8286</td><td>928</td><td>17366</td><td>26580</td><td>39036</td><td>75</td><td>n/a</td></th<>	Total	627	782	8412	14408	760	19	2900	409	1355	504	59	131	265	119	8286	928	17366	26580	39036	75	n/a
Ardeids etc 4406 11.27 253 9.642 69 0			%		%	sw	SI															
Ducks, grebes, pelicans 14827 37.983 6152 2.145 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cormorants	5767	14.774	5021	18.89	3	0															
Ducks, grebes, pelicans 14827 37.983 6152 23.145 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ardeids etc	4406	11.287	2563	9.6426	69	0															
Rails, Coot etc. 219 0.561 130 0.4891 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			1																			
Waters 4314 10.51 3423 12.878 1 0		1																				
Guils and terms 9503 24.344 9291 34.955 0 0 <		1																				
TOTAL 39308 100 26580 100 75 n/a	Waders		1																			
And and a contract of	Gulls and terns	9503	24.344	9291	34.955	0	0															
n/c = site not counted High tide measured at TBT: Image: content of the count date Image: content date Image: content date	TOTAL	39036	100	26580	100	75	n/a															
n/c = site not counted High tide measured at TBT: Image: content of the count date Image: content date Image: content date	Data af annati 0000																					
# indicates count consists of or includes a count made up to or includes a count made at evening roost Image: count made at evening roott <																						
% = count made at evening roost Image at evening roost																						
Wetland-dependant species SRA SRB DBA DBB DBC DBB DBE DBF TKC LC TSW MPST ST MPNR Ramsar ponds Ramsar intertidal areas BEP BAY AREA Shuen Val Shuen Val Shuen Val Stareas MPNR Ramsar ponds Ramsar intertidal areas BEP BAY AREA Shuen Val Stareas MPNR Ramsar ponds Ramsar intertidal areas Stareas Stareas <td># indicates count consists of c</td> <td>or includes</td> <td>a count n</td> <td>nade up to o</td> <td>ne week</td> <td>either side</td> <td>of the cou</td> <td>int date</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td> </td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	# indicates count consists of c	or includes	a count n	nade up to o	ne week	either side	of the cou	int date														
Species SRA SRB DBA DBB DBC DBB DBE DBF TKC LC TSW MPNR Ramsar pods Ramsar	% = count made at evening ro	ost																				
Species SRA SRB DBA DBB DBC DBD DBE DBF TKC LC TSW MPNR Ramsar pods Ramsar	Wetland-dependent species	I																				
Osprey I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <td></td> <td></td> <td>SRB</td> <td>DBA</td> <td>DBB</td> <td>DBC</td> <td>DBD</td> <td>DBE</td> <td></td> <td></td> <td>ткс</td> <td>LC</td> <td>тѕѡ</td> <td>MPST</td> <td>ST</td> <td>MPNR</td> <td></td> <td>intertidal</td> <td></td> <td>BAY</td> <td></td> <td>Starling Inlet</td>			SRB	DBA	DBB	DBC	DBD	DBE			ткс	LC	тѕѡ	MPST	ST	MPNR		intertidal		BAY		Starling Inlet
Black Kite 6 8 4 2 1 17 13 5 2 5 3 5 2 25 7 34 73 5 White-bellied Sea Eag 1 1 1 1 1 1 0 1 0 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				1	2	2		1								0		areas	0		1	
White-bellied Sea Eag Imperial Eagle Imperial Eagle <t< td=""><td></td><td>6</td><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td>13</td><td>5</td><td>2</td><td>5</td><td>3</td><td>5</td><td></td><td></td><td>7</td><td></td><td></td><td></td><td></td></t<>		6	8							13	5	2	5	3	5			7				
Common Buzzard 1 1	White-bellied Sea Eag															0			0	1		
Greater Spotted Eagle 0 0 0 0 0 0 0 0 0 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2	1																			
Imperial Eagle 0 0 0 0 0 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1																				
Pregrine Falcon 1 1 1 1 0 0 2 0 0 2 Pied Kingfisher 0 0 1 1 0 0 0 2 4 2 2 6 1 9 12 Common Kingfisher 2 5 1 2 6 3 8 1 3 9 1 3 25 1 29 44 1 White-throaded Kingfisher 1 0 1 2 6 4 5 1 2 0 1 4 11 3 18 28 1 Black-capped Kingfisher 0 0 2 0 2 0 0 0 0 3 3 12 1																						
Pied Kingfisher 0 0 1 0 0 0 2 4 2 2 6 1 9 12 Common Kingfisher 2 5 1 2 6 3 8 1 3 9 1 3 25 1 29 44 1 White-throated Kingfisher 1 0 1 2 6 4 5 1 2 0 1 4 11 3 18 28 1 Black-capped Kingfisher 0 0 2 0 2 4 0 0 0 0 3 3 12 1		0	0			1			0			1	0	0	0			0				
Common Kingfisher 2 5 1 2 6 3 8 1 3 9 1 3 25 1 29 44 1 White-throated Kingfisher 1 0 1 1 2 6 4 5 1 2 0 1 4 11 3 18 28 1 Black-capped Kingfisher 0 0 2 2 0 2 4 0 0 0 0 3 3 12 1		0	0	1		<u> </u>		1	0		*****	0	2	4	2			1				
White-throated Kingfisher 1 0 1 2 6 4 5 1 2 0 1 4 11 3 18 28 1 Black-capped Kingfisher 0 0 2 2 0 2 4 0 0 0 0 3 3 12 1							1														1	
	White-throated Kingfisher	1	0	1			1	2	6	4			2	0	1		11	3	18	28		
					2																	
Red-billed Starling 51 12 20 23 80 76 62 21 6 0 19 102 4 125 370 80 Collared Crow 0 0 0 0 0 0 1 0 1 24 20 45 25 2							20															

Counts of waterbird in January 2003

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	41	17	6					33		4	4	0	5	0	44	31	0	75	154		8
Great Crested Grebe			1												0			0	1		
Great Cormorant												1979			5980			5980	7959	6	82
Dalmatian Pelican				14											0			0	14		
Grey Heron	103	44	74	3	1	18	80	38	10	3	0	5	9	27	515	50	102	667	930	25	84
Purple Heron											1				6			6	7		
Great Egret	28	42	527	200	32	55	41	129	41	3	0	2	1	63	257	126	334	717	1421	57	169
Intermediate Egret	4	1						0		0	0	0	0	4	1	0	0	1	10		1
Little Egret	43	87	297	220	23	23	74	297	147	58	3	11	18	23	296	354	347	997	1620	21	84
Pacific Reef Egret															0			0	0		
Cattle Egret	1	8						17		0	0	2	2	4	0	18	0	18	34		11
Chinese Pond Heron	9	35	86	21		3	10	12	40	22	1	0	13	37	18	43	34	95	307	9	8
Striated Heron	0	0						0		0	0	0	0		0		· · · · · · · · · · · · · · · · · · ·	0	0	1	
B-c Night Heron	0	1	22					0		0	0	0	3		115	3		118	141	4	1
Yellow Bittern	0	0						0		0	0	0	0		0			0	0		
Cinnamon Bittern															0			0	0		
Great Bittern	1														0			0	0		
Black Stork															0			0	0		
Black-headed Ibis															0			0	0		
Eurasian Spoonbill	1														2			2	2		
Black-faced Spoonbill			3				12		8						207			207	230		
Common Shelduck			3	192			12		0						207		192	192	192		
Eurasian Wigeon	85	15	952	192	0	676	1150	35	10	23	0	0	0	0	1134	0		2986	4080		
Falcated Duck	5	15	952			070	1150		10	23	0	0	0	0	0	0	1052	2900	4080		
Gadwall															0			0	5 0		
Baikal Teal	+														0			0	0		
	+	108	181		54		658	30		5	0	0	21	0		2	742	3509	3826		16
Common Teal Mallard	4	100	101		54		000	30			0	0	21	0	2765	Z	142	3509	3020		10
															0	6					
Spot-billed Duck										6					18	6		6 18	6 18		
Chinese Spotbill															18			18	18		
Burmese Spotbill	19	-	4000			2341	85								95		2426	2521	4381		
Northern Pintail	1	5	1836			2341	85														
Garganey	2	1	1100				100								13		0	13	16		
Northern Shoveler	4		1136		6	4	168								10		178	188	1328		
Common Pochard															0		0	0	0		
Baer's Pochard	-														0		0	0	0		
Tufted Duck			270			93				10					66		93	159	439		
Greater Scaup						17									0		17	17	17		
Red-breasted Merganser															0		0	0	0		
Duck sp.			4200				225								1300		225	1525	5725		
Slaty-breasted Rail	-			3											0		3	3	3		
Water Rail															0			0	0		
White-breasted Waterhen	2	1	2				2	5		2	2	0	0	3	0		2	8	19	4	1
Watercock											ļ				0			0	0		
Common Moorhen	9	14	18	4		1	10	41	1	20	0	0	4	2	25	49	15	89	149		1
Eurasian Coot	3	2													37			37	42		
Pheasant-tailed Jacana															0			0	0		
Black-winged Stilt			1							1				3	0	1		1	5		
Pied Avocet			191	1800		524	470								0		2794	2794	2985		

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Appendix 1

1

Counts of waterbird in January 2003

othere othere<	SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Gory-Model Lapoing Control Model Model Control Model Model Model Control Model Mode	Oriental Pratincole	_																				
pache Solution Ploop image Ploop<	Northern Lapwing															0		0	0	0		
Sery hore Sery Sery Sery Sery Sery Sery Sery Serv Serv <td>Grey-headed Lapwing</td> <td></td> <td>0</td> <td></td> <td>0</td> <td>0</td> <td>0</td> <td></td> <td></td>	Grey-headed Lapwing															0		0	0	0		
Commen Respond Prover 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 <	Pacific Golden Plover				171											0		171	171	171		
Inder Grand Ind	Grey Plover				295											0		295	295	295		
Knish Power Knis	Common Ringed Plover															0		0	0	0		
Laces Sand Proof I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I </td <td>Little Ringed Plover</td> <td>12</td> <td>9</td> <td>58</td> <td></td> <td></td> <td></td> <td></td> <td>37</td> <td>6</td> <td>60</td> <td>0</td> <td>1</td> <td>0</td> <td>8</td> <td>0</td> <td>81</td> <td>0</td> <td>81</td> <td>191</td> <td>4</td> <td>4</td>	Little Ringed Plover	12	9	58					37	6	60	0	1	0	8	0	81	0	81	191	4	4
Searcher Monte Search	Kentish Plover				9						11					0	11	9	20	20	11	
Back-and Golve Sar Sar Sar Sar <	Lesser Sand Plover								1							0		0	0	1		
bar-sine Code	Greater Sand Plover															0		0	0	0		
Bar-Bar Gown Image of the second	Black-tailed Godwi#				337											0		337	337	337		
Wanner I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I </td <td></td>																						
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Spetted Redshark I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I		1								10	1				1							
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Match Sandpiper Image		-		1	20		12				1											
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Red-necked Phalarope Image: Solution of the solu		8	11	2			1	4	20	3	10	6	0	12	8			5			3	1
Red-necked Phalarope Image																						
Pintal Snipe I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I I <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ļ</td><td>ļ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>											ļ	ļ										
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Long-billed DowitcherIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII											ļ		ļ	ļ	ļ				0	0		
Asian Dowitcher Image: Constraint of the straint o	Common Snipe	_	1						1		1								1			
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Great KnotImage: Source of the state of the s	Asian Dowitcher															0			0	0		
SanderlingImage: Sa	Red Knot															0			0	0		
Red-necked StintImage: space	Great Knot				2											0		2	2	2		
Terminck's StintImage: space	Sanderling															0			0	0		
Long-tood StintImage: StandpiperImage: StandpiperImag	Red-necked Stint															0			0	0		
Sharp-tailed SandpiperImage: Sharp-tailed San	Temminck's Stint								12		12					0	14	0	14	24		
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Curlew Sandpiper Image: Sandpiper <td< td=""><td></td><td></td><td></td><td></td><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0</td><td></td><td>11</td><td>11</td><td>11</td><td></td><td></td></td<>					11											0		11	11	11		
Spon-billed Sandpiper Image:																						
Broad-billed Sandpiper Image: Sandpiper Sandpiper	********										1											
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Wader sp. 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093 1093		1									1			1								
Black-tailed Gull 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 7 8 8 8 8 8		-			1002						†	1			1			1002				
Heuglin's Gull 1 467 75 0 0 542 543		+														1						
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Slaty-backed Gull 2 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		+																				

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

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Counts of waterbird in January 2003

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Pallas's Gull				1											0		1	1	1		
Brown-headed Gull															0			0	0		
Black-headed Gull	0	0	150	11000	1440		3	7	1	0	0	0	0	0	0	5	12443	12448	12601		
Saunders's Gull				34											0		34	34	34		
Whiskered Tern															0			0	0		
White-winged Tern															0			0	0		
Gull-billed Tern															0			0	0		
Caspian Tern				2											0		2	2	2		
		440	10040			0007	0074	700	279	007	40	2001	91	405		869				400	400
Total	395	418	10040	17594	1646	3827	3371	732	2/9	267	18	2001	91	195	12921	869	26482	40272	53795	162	490
	Deep Bay Area	%	Ramsar Site	%	sw	sı															
Cormorants	7959	14.795	5980	14.849	6	82															
Ardeids etc	4702	8.7406	2828	7.0222	117	358															
Ducks, grebes, pelicans	20203	37.556	11210	27.836	0	24															
Rails, Coot etc	213	0.3959		0.3402	4	2															
Waders	7527	13.992	7080	17.58	35	24															
Gulls and terns	13191	24.521	13037		0	1															
						1															
TOTAL	53795	100	40272	100	162	490															
Date of count: 2002																					
n/c = site not counted		High tide	e measured	at TBT:																	
# indicates count consists of	or includes	and the second sec			either side	of the cou	int date														
% = count made at evening i																					
70 - Count made at evening i																					
Wetland-dependant specie	s																				
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey			1			2			1						0			0			in the second se
Black Kite	4	26		3		1	1	29	4	1	0	2	4	13	16		17		104	3	
White-bellied Sea Eag Eastern Marsh Harrier	2														0			0			
Eastern Marsh Harrier Common Buzzard	2	1										1		1	0			0			
Greater Spotted Eagle	1	0						0		0	0	<u>.</u>	0		0		0				
Imperial Eagle	0							0		0									2		
Common Kestrel	1													1	0			0			
Peregrine Falcon	_														1			1			
Pied Kingfisher	0							0		0					0						1
Common Kingfisher White-throated Kingfisher	1	10	1		3	3		12 7		3	0	0			1				47 35		
Black-capped Kingfisher	0	0			3	2			2						2					2	
Red-billed Starling	27	31				52		21	19						67				260		
Collared Crow	0	0				1		13		0	0	0	0	0	0				13		

Counts of waterbird in February 2003

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	39	35	6					22		6	2	6	8	0	40	32	4	76	164		
Great Crested Grebe			1	9											0			0	10		
Great Cormorant	45	601	95		0	84	1	66		85	5	25	24	72	2150	140	85	2375	3253	2	
Dalmatian Pelican				14											0			0	14		
Grey Heron	136	17	74	3	0	11	227	68		23	12	8	5	15	324	75	249	648	923	26	
Purple Heron															3			3	3		
Great Egret	60	56	527	63	15	7	46	72		24	2	0	11	3	220	51	165	436	1106	36	
Intermediate Egret	5	0		1				1		0	0	0	0	3	4	1	1	6	14	1	
Little Egret	29	65	297	229	84	21	157	264		115	8	19	86	15	217	275	570	1062	1606	22	
Pacific Reef Egret															0			0	0		
Cattle Egret	0	1						77		0	0	0	9	57	0	85	1	86	144		
Chinese Pond Heron	12	13	86					3		25	2	4	3		11		0	32	179	8	
Striated Heron	0							0		0	0	0	0	0	0	0	0	0	0	1	
B-c Night Heron	0	0	22					0		0	0	0	0	0	63	0	0	63	85	3	
Yellow Bittern	0							0		0	0				0			0	0		
Cinnamon Bittern															0			0	0		
Great Bittern	1												1		0			0	0		
Black Stork										1				1	0			0	0		
Black-headed Ibis										1					0			0	0		
Eurasian Spoonbill	1														1			1	1		
Black-faced Spoonbill			3	5			47	42							96		52	148	193		
Common Shelduck															0			0	0		
Eurasian Wigeon	93	0	952	364	463	1260	186	39		4	0	0	0	0	603	0	2312	2915	3964		
Falcated Duck		Ű		1	1	1200	100	00		⁻		Ŭ			000		1	1	1		
Gadwall	+														0				. 0		
Baikal Teal															0			0	0		
Common Teal	27	52	181	150	32	610	8	23		22	0	0	0	0	2169	0	823	2992	3274		
Mallard	21		101	150		010							^v	0	0		025	0	0		
Spot-billed Duck	+													+	0			0	0		
Chinese Spotbill	+														17				17		
Burmese Spotbill	1														0			0	0		
Northern Pintail			1836	230	28	494	15								0		767	767	2603		
Garganey			1000	3		434	15								105		707	112	112		
Northern Shoveler			1136		352	4	117	18							26		3091	3117	4271		
Common Pochard	+		1130	2430	332	172		10							20		0	0	42/1		
Baer's Pochard															0		0	0	0		
Tufted Duck	3		270			635									0		635	635	0 908		
Greater Scaup	- 3		270			635									0		2	2	908		
Red-breasted Merganser	+					2									0		2	2	2		
	1		4200												0		0	0	4201		
Duck sp.	+ 1		4200	1											0						
Slaty-breasted Rail	+			1														0	1		
Water Rail	-						-				~				0			0	0		
White-breasted Waterhen	3	1	2	3		1	5	1		2	0	0	0	3	1		9	11	22	1	
Watercock	+										-			-	0			0	0		
Common Moorhen	17	16	18					13		17	0	2	2	5	1		0	28	91		
Eurasian Coot	3					10		1							22			22	36		
Pheasant-tailed Jacana															0			0	0		
Black-winged Stilt	1	-	1												0			0	2		
Pied Avocet			191	4970	599		104								0		5673	5673	5864		

 Pied Avocet
 Image: Constraint of the state of the state

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Counts of waterbird in February 2003

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Oriental Pratincole															0			0	0		
Northern Lapwing															0			0	0		
Grey-headed Lapwing															0			0	0		
Pacific Golden Plover															0			0	0		
Grey Plover				47											0		47	47	47		
Common Ringed Plover															0			0	0		
Little Ringed Plover	12	4	58					5		0	11	2	2 1	11	2	16	0	18	106		
Kentish Plover															0			0	0		
Lesser Sand Plover															0			0	0		
Greater Sand Plover															0			0	0		
Black-tailed Godwit				340											0		340	340	340		
Bar-tailed Godwit															0		0	0	0		
Whimbrel															0		0	0	0		
Eurasian Curlew				1010											4		1010	1014	1014	13	
Far Eastern Curlew															0		0	0	0		
Spotted Redshank				450						1					0		450	450	450		
Common Redshank	1		1	1									1		0		1	1	2		
Marsh Sandpiper				1760						1					0		1760	1760	1760		
Common Greenshank				10			38			1	İ				19		48	********			
Nordmann's Greenshank				1									1		0		1	1	1		
Green Sandpiper	4	4						6		3	3	5	5 1	7			0	15			
Wood Sandpiper	17		25					12		0	0		1								
Terek Sandpiper															0			0			
Common Sandpiper	3	9	2			1		6		11	16	10	6	4	0		1	44	68	2	
Grey-tailed Tattler	1					· · · ·									0			0			
Ruddy Turnstone	1												1		0			0			
Red-necked Phalarope													1		0			0			
Pintail Snipe	+												1	1	0			0			
Swinhoe's Snipe													1		0			0			
Common Snipe	1	1								<u> </u>			1		0			0			
Long-billed Dowitcher	1	· · · ·								1			+		0			0			
Asian Dowitcher															0			0	0		
Red Knot															0			0	0		
Great Knot				2											0		2	2	2		
Sanderling	-												1		0			0	0		
Red-necked Stint															0			0			
Temminck's Stint								27							0			0			
Long-toed Stint								21							0			0			
Sharp-tailed Sandpiper													1		0			0	0		
															1						
Dunlin Curlow Sondhingr	+			+									+		0			0	0		
Curlew Sandpiper															0						
Spoon-billed Sandpiper															1			0			
Broad-billed Sandpiper	+												+		0			0			
Ruff	+			1											0		1	1			
Wader sp.	+														0			0			
Black-tailed Gull				70											0		70	70			
Heuglin's Gull			1			185									0		185	185	186		
Yellow-legged Gull	+						2			<u> </u>			+		0		2	2			
Slaty-backed Gull															0		0	0	0		

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Counts of waterbird in February 2003

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Pallas's Gull				2											0		2	2	2		
Brown-headed Gull															0			0	0		
Black-headed Gull	0	0	150	700				122		0	0	3	0	23	0	98	700	798	998		
Saunders's Gull	† Ť		100	35						Ĭ					0		35	35	35		
	1			144											0		144	144	144		
Large Gull sp.				144													144				
Whiskered Tern															0			0	0		
White-winged Tern															0			0	0		
Gull-billed Tern															0			0	0		
Caspian Tern				7											0		7	7	7		
Total	510	876	10135	13076	1573	3497	953	888	n/a	337	61	86	156	245	6098	886	19253	26237	38491	115	n/a
	Deep Bay Area	%	Ramsar Site	%	sw	SI															
Cormorants	3253	8.4513	2375	9.0521	2	0															
Ardeids etc	4254	11.052	2485	9.4714	97	0															
Ducks, grebes, pelicans	19541	50.768	10634		0	0				1											
Rails, Coot etc	150	0.3897		0.2325	1	0															
Waders	9849	25.588		35.976	15	0															
Gulls and terns	1444	3.7515	1243	4.7376	0	0															
TOTAL	38491	100	26237	100	115	n/a															
Date of count: 2002																					
n/c = site not counted		High tide	measured	at TBT:																	
# indicates count consists of	or includes	a count m	ade up to o	ne week	either side	of the cou	unt date														
% = count made at evening r	oost																				
Wetland-dependant species	s																				
Species	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey			1		3	2									0			0			
Black Kite	12	50		1			6	41		3	6	12	2	6	1		11	66	140	3	
White-bellied Sea Eag	2			1											0			0			
Eastern Marsh Harrier Common Buzzard	+ 2			1								1		1	2			2	5		
Greater Spotted Eagle	1	0						0		0	0		0		1		0	1	2		
Imperial Eagle	0							0		0	0	·			1			1	- 1		
Common Kestrel								1							0	1		1			
Peregrine Falcon				1											1			1	2		
Pied Kingfisher	2	0						0		0					1			2		1	
Common Kingfisher White-throated Kingfisher	3	0			4			4		8	3		2		4			19 10	31 19	2	
Black-capped Kingfisher	0							5		2	1	0					2	4	19		
Red-billed Starling	10	0						81		3	120	20	0		5		2	199	290	500	
Collared Crow	0							7		1	1						0	8			

Counts of waterbird in March 2003

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тѕѡ	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Little Grebe	34	25	1					27		3	3	1	5	5	59	24	0	83	163		2
Great Crested Grebe			31							1					0	1		1	32		
Great Cormorant	33	415	343		42		3	1	7	11	5	15	42	20	1068	67	45	1180	2005	3	55
Dalmatian Pelican															0			0	0		
Grey Heron	43	16	71	12			107	7	4	0	1	2	18	0	274	23	120	417	555	12	26
Purple Heron															3			3	3		
Great Egret	0	57	118	51	21		38	40	19	0	2	3	11	25	51	45	115	211	436	17	158
Intermediate Egret	1	0		1				0		0	0	0	0	0	16	0	1	17	18		3
Little Egret	35	134	127	86	65		100	110	61	45	18	22	37	10	146	204	273	623	996	21	81
Pacific Reef Egret															0			0	0		
Cattle Egret	0	0						23		0	0	1	59	4	1	82	0	83	88		2
Chinese Pond Heron	1	21	38	9				2	9	34	3	9	11	19	18	44	9	71	174	6	2
Striated Heron	0	0	18					0		0	0	0	0	0	0	0	0	0	18		
B-c Night Heron	0	2						0		0	0	0	0	0	30	0	0	30	32	3	78
Yellow Bittern	0							0		0				0	0		0	1			
Cinnamon Bittern															0			0			
Great Bittern	1														0			0			
Black Stork													1		0			0			
Black-headed Ibis															0			0			
Eurasian Spoonbill															3			3			
Black-faced Spoonbill							54	5							122			122	181		
Common Shelduck	-						54	5							0			0			
Eurasian Wigeon	57	0	200	26		142		500		1	0	0	0	0	12		668	681	938		
Falcated Duck	5/		200	20		142		500		· · · · ·	0	0	0	0	0		000	001			
															0			0			
Gadwall															0						
Baikal Teal	+						-							0				0 832			
Common Teal	0	3					8	810		0	0	0	0	0	14		818				4
Mallard	+														0			0			
Spot-billed Duck															0			0			
Chinese Spotbill															0			0			
Burmese Spotbill															0			0			
Northern Pintail						2									0		2	2			
Garganey															109			109	109		
Northern Shoveler			5	32		142									0		142	142			
Common Pochard															0			0			
Baer's Pochard															0			0			
Tufted Duck	1		80			-									1			1	82		
Greater Scaup															0			0	0		
Red-breasted Merganser															0			0	0		
Duck sp.															0			0	0		
Slaty-breasted Rail				1		ļ							ļ		0			0	1		1
Water Rail															0			0	0		
White-breasted Waterhen	4	11		1			2	5		1	3	2	3	1	7		3	22	40		3
Watercock															0			0	0		
Common Moorhen	20	6	1	2				19		8	7	0	8	1	31	28	3	62	103		6
Eurasian Coot															3			3	3		
Pheasant-tailed Jacana															0			0	0		
Black-winged Stilt	16		10												0			0	26		
Pied Avocet	1			3700											3			3			

 Pied Avocet
 Image: Constraint of the state
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Counts of waterbird in March 2003

Appendix '

SPECIES	SRA	SRB	DBA	DBB	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	TSW	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Oriental Pratincole												3			3			6			
Northern Lapwing															0			0	0		
Grey-headed Lapwing															0			0	0		
Pacific Golden Plover				118											0			0	118		
Grey Plover				67											0			0	67		
Common Ringed Plover															0			0	0		
Little Ringed Plover	17	1	5					5		0	20	0	4	6	6	44	0	50	64	2	2 3
Kentish Plover				12											0			0	12		
Lesser Sand Plover															0			0	0		
Greater Sand Plover				11											0			0	11		
Black-tailed Godwit															116			116	116		
Bar-tailed Godwit															0			0	0		
Whimbrel															1			1	1		
Eurasian Curlew													ļ		268			268	268		
Far Eastern Curlew															1			1	1		
Spotted Redshank															941			941	941		
Common Redshank			107												134			134	241		
Marsh Sandpiper	1			1878											0			0	1879		
Common Greenshank			400												61			61	461		
Nordmann's Greenshank				1											0			0	1		
Green Sandpiper	5	7						1		15	3	2	2	5	2	13	0	15	42		3
Wood Sandpiper	15	1	1					12		0	0	2	22	5	1	25	0	26	59		
Terek Sandpiper															0			0	0		
Common Sandpiper	2	10	12	1				20		15	8	5	5	7	3	41	2	46	88	2	1
Grey-tailed Tattler						1									0			0	0		
Ruddy Turnstone															0			0	0		
Red-necked Phalarope						1									0			0	0		
Pintail Snipe															0			0	0		
Swinhoe's Snipe															0			0	0		
Common Snipe		2													0			0	2		
Long-billed Dowitcher															3			3	3		
Asian Dowitcher															0			0	0		
Red Knot															0			0	0		
Great Knot				34											0		34	34	34		
Sanderling				1											0		1	1	1		
Red-necked Stint				8											0		8	8	8		
Temminck's Stint															0			0	0		
Long-toed Stint															0			0			
Sharp-tailed Sandpiper															0			0	0		
Dunlin				8											0		8	8			
Curlew Sandpiper				8	1										0		8	8			
Spoon-billed Sandpiper															0			0			-
Broad-billed Sandpiper										1					0			0			
Ruff															3			3			1
Wader sp.															0			0			+
Black-tailed Gull				3											1		3	4			+
Mew Gull				1											0		1		1		
Heuglin's Gull				155											0		155	155			+
Yellow-legged Gull				8	1										0		8		1		+

The Hong Kong Bird Watching Society Limited Waterbird Monitoring Programme at the Mai Po Inner Deep Bay Ramsar Site

Counts of waterbird in March 2003

Appendix	1
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Slaty-backed Gull Pallas's Gull Brown-headed Gull Black-headed Gull Saunders's Gull Whiskered Tern Gull-billed Tern Caspian Tern Total			018	2 2				0		0					0		2	2	2		
Brown-headed Gull Black-headed Gull Saunders's Gull Whiskered Tern White-winged Tern Gull-billed Tern Caspian Tern				2				0		0							2				
Black-headed Gull Saunders's Gull Whiskered Tern White-winged Tern Gull-billed Tern Caspian Tern								0		0									-		
Saunders's Gull Whiskered Tern White-winged Tern Gull-billed Tern Caspian Tern								0		0	0				0			0	0		
Whiskered Tern White-winged Tern Gull-billed Tern Caspian Tern	5 71	1 2	586								0	0	0	0	0	0	0	0	1018		
White-winged Tern Gull-billed Tern Caspian Tern	5 71	1 2	586												0			0	0		
White-winged Tern Gull-billed Tern Caspian Tern	5 71	1 2	586												0			0	0		
Gull-billed Tern Caspian Tern	5 71	1 2	586												0			0	0		
Caspian Tern	5 71	1 2	586												0			0	0		
	5 71	1 2	586												5			5	5		
			000	6239	128	286	312	1587	100	134	73	67	228	108	3520	658	2431	6609	16364	66	428
Deep	%	Ram		%	sw	SI															
Bay Are																					
Cormorants 200			180 17		3																ļ
Ardeids etc 250	5 15.30	8 1	581 23	3.922	59	350															
Ducks, grebes, pelicans 234	0 14	3 1	351 28	3.007	0	6															ļ
Rails, Coot etc 14	7 0.898	3	87 1.	3164	0	10															
Waders 8172	2 49.93	9 1	733 26	5.222	4	7															
Gulls and terns 119	5 7.302	6	177 2.	6782	0	0															
TOTAL 16364	4 10	ο 6	609	100	66	428															
Date of count: 2002																					
n/c = site not counted	High t	de meas	red at T	BT:																	
# indicates count consists of or includes	a coun	made up	to one	week e	either side	e of the cou	unt date														
% = count made at evening roost																					
<u>_</u>																					
Wetland-dependant species																					
SRA Species	SRB	DB	D	вв	DBC	DBD	DBE	DBF (TBT)	NW / LFS	ткс	LC	тsw	MPST	ST	MPNR	Ramsar ponds	Ramsar intertidal areas	Ramsar Site	DEEP BAY AREA	Shuen Wan	Starling Inlet
Osprey			1	2	1			2							0		3	3		1	
Black Kite White-bellied Sea Eag	1	5						18	3	3	1	3	3	9	6 0	25	2	33 0	52 0	3	
	1														2		0	0			
Common Buzzard		2													2	1		3		1	
Greater Spotted Eagle		0						0		0		0				0		0			
impondi Edgio	1	0						0		0	0	0	0	0	0	0		0			
Peregrine Falcon Pied Kingfisher	0	0	4					1		0	0	0	1	0	1		0	1 2		1	1
	5	1	7					6				4			1			2 19		1	
	1	2	4					2		0	1	2		0	3	5	0	8		1	
	0	0	1	1				1		0		0			1	2		4	5	1	
	0 3 0	0						32 17		53 0		0				231 15	0	239 20	287 18		4