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**Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme
2016 - 2017**

Shorebird Monitoring Report



Submitted by
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Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

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Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
Department

Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

1. Introduction

A systematic, long-term monitoring programme of waterbirds in the Mai Po Inner Deep Bay Ramsar Site commenced in December 1997. Counts of shorebirds (also called waders) in migratory seasons form one part of this programme. The other components are monthly counts of waterbirds and surveys of ardeid nesting colonies. The Waterbird Monitoring Programme was administered and executed by the Hong Kong Bird Watching Society (HKBWS) under a subvention from the Agriculture, Fisheries and Conservation Department (AFCD) from December 1997 to March 2004. Since April 2004, the programme has been arranged under service contracts funded by the AFCD. This report focuses on the results of shorebird counts during the migratory seasons from mid-July 2016 to mid-July 2017 under service contract reference number AFCD/SQ/40/16/C.

2. Methodology

Migratory shorebirds visit the Deep Bay area during autumn and spring, and some of them stay through the winter. The purpose of this study was to monitor the abundance and population changes of migratory shorebirds in the Mai Po Inner Deep Bay Ramsar Site throughout the year. The shorebird counts were conducted more frequently during the peak periods of passage migration (i.e. from late March to late May and from the second half of July to late October). From November to February, the shorebird counts were carried out once a month, and the results obtained in the monthly waterbird counts in the mid-winter period (i.e. from December to February) were also incorporated in this report whenever the monthly figures were higher. In summer from June to mid-July, counts were conducted once every two weeks. The annual schedule of shorebird counts under this Shorebird Monitoring Programme was as follows:

- Autumn: from 16 July 2016 to 3 November 2016 - once a week;
- Winter: from mid-November 2016 to mid-February 2017 - once a month;
- Spring: from 22 March 2017 to 1 June 2017 - once every three days; and
- Summer: from 2 June 2017 to 15 July 2017 - once every two weeks.

The main survey site was the Mai Po Marshes Nature Reserve (MPMNR) (Map 1), where counts were conducted either in *gei wais* or on the mudflats from the four boardwalk bird-watching hides, depending on the tidal height. In general, counts were conducted in the *gei wais* in the MPMNR during the high-tide period as management activities by the World Wide Fund For Nature Hong Kong (WWF-HK) had provided regular and suitable roosting sites for shorebirds, which allowed the counts to be made with a relatively high degree of accuracy. The following procedure was adopted in the survey:

- Counting started from the boardwalk hide(s) on a rising tide at a tidal height of around 1.5m (in winter months) or 1.8m (in spring and autumn months).
- At high tide, when the mudflats were submerged, roosting birds in the MPMNR were counted.
- When the high tide during daytime was lower than 2.2m in spring and autumn, a synchronized count was conducted from both the boardwalk hide and in the MPMNR.
- Birds were counted from the boardwalk hide(s) on a falling tide until an accurate count was no longer possible due to distance from the surveyor.

In spring 2017, shorebird count was also conducted simultaneously at the Hong Kong Wetland Park (HKWP) because some shorebirds were found roosting in the park during the high tide period in spring and their numbers could exceed 3,000 (Anon. 2016). This shorebird count data were provided by the Reserve Section of HKWP and all these count figures were added to the Mai Po data because the counts of two places took place at the same time. This will provide the most comprehensive figures of the spring passage shorebirds for the waterbird monitoring programme at the Mai Po Inner Deep Bay Ramsar Site.

The equipment used included a pair of 7x to 10x binoculars and a telescope with wide angle or 20-60x eyepieces, mounted on a tripod. The shorebird counts at the *gei wais* and mudflat of MPMNR were conducted by HKBWS-accredited waterbird surveyors with experience in shorebird counting and identification. All shorebirds sighted in the survey sites were identified to species level. When leg-flagged shorebirds were observed, their details, including species, age and/or the extent of breeding plumage, and the colour and position of the flag were recorded. The information was then checked to determine the shorebirds' migration route or origin.

3. Results and discussion

The results of the shorebird counts are presented in detail in Appendices 1, 2 and 3. The counts of selected species are plotted on graphs from Figure 1 to 19 for Autumn 2016 and from Figure 20 to 38 for Spring 2017 (Appendix 4). The order of the shorebird names follows the list of Hong Kong birds (HKBWS 2016), same as the list used for the report in previous year (Anon 2016).

To make an attempt of estimating the total number of shorebirds that utilised the Mai Po Inner Deep Bay Ramsar Site during the 12-month period from 16 July 2016 to 15 July 2017 (including Hong Kong Wetland Park in spring), the peak counts in autumn, winter and spring of each positively identified shorebird species were added together to obtain the aggregate number (Table 1). In summer (2 June to 15 July), as most birds were spring migrants which left late or autumn migrants of the subsequent season which arrived early, only figures of breeding species in the Deep Bay area, i.e. Greater Painted-snipe *Rostratula benghalensis* and Black-winged Stilt *Himantopus himantopus*, would be taken into consideration. Nevertheless, the summer figures of these two species would only be adopted when they were higher than the spring counts to avoid overestimate, as the birds might have arrived or even started breeding in the spring survey period. As some shorebird species habitually stayed in Deep Bay for a long period, they might have been counted repeatedly in different seasons. Therefore, some counts were excluded from the calculation of the aggregate numbers to avoid overestimate.

Table 1. Minimum number of shorebirds estimated to have used the Mai Po Inner Deep Bay Ramsar Site during the 12-month period from 16 July 2016 to 15 July 2017. ('Autumn', 'winter' and 'spring' figures include only the peak counts of passage and wintering flocks of each species.)

Year	2016	2016-17	2017	2016-17	2015-16	2014-15	2013-14	2012-13
Species	autumn	winter [#]	spring	Minimum	Minimum	Minimum	Minimum	Minimum
Pheasant-tailed Jacana <i>Hydrophasianus chirurgus</i>	2	1	0	3	0	2	1	3
Greater Painted-snipe <i>Rostratula benghalensis</i>	0	0	0	0	4	14	1	3
Black-winged Stilt <i>Himantopus himantopus</i>	144 ^a	580	107 ^a	580	274	634	466	1,059
Pied Avocet <i>Recurvirostra avosetta</i>	384 ^a	5,031	1017 ^a	5,031	9,275	10,957	11,794	9,840
Oriental Pratincole <i>Glareola maldivarum</i>	0	0	13	13	15	7	3	16
Northern Lapwing <i>Vanellus vanellus</i>	0	0	0	0	0	2	1	0
Grey-headed Lapwing <i>V. cinereus</i>	1	17	1	19	2	10	14	11
Pacific Golden Plover <i>Pluvialis fulva</i>	173	680	203	1,056	893	868	676	762

Year	2016	2016-17	2017	2016-17	2015-16	2014-15	2013-14	2012-13
Species	autumn	winter [#]	spring	Minimum	Minimum	Minimum	Minimum	Minimum
Grey Plover <i>P. squatarola</i>	40	693	324 ^a	733	588	599	848	639
Common Ringed Plover <i>Charadrius hiaticula</i>	0	0	0	0	0	0	0	0
Little Ringed Plover <i>C. dubius</i>	5 ^b	164	8 ^b	164	30	102	77	109
Kentish Plover <i>C. alexandrinus</i>	293	575	229	1,097	1,509	1,212	564	3,494
Lesser Sand Plover <i>C. mongolus</i>	3	1	41	45	89	128	66	97
Greater Sand Plover <i>C. leschenaultii</i>	364	24	410	798	629	851	634	622
Oriental Plover <i>C. veredus</i>	0	0	0	0	0	0	0	3
Black-tailed Godwit <i>Limosa limosa</i>	661 ^a	1,183	1,720	2,903	2,656	2,343	2,163	2,541
Bar-tailed Godwit <i>Limosa lapponica</i>	34	6	25	65	23	237	95	131
Little Curlew <i>Numenius minutes</i>	0	0	0	0	0	1	0	0
Whimbrel <i>Numenius phaeopus</i>	151	7	38	196	318	258	287	258
Eurasian Curlew <i>N. arquata</i>	134 ^a	1,542	131 ^a	1,542	1,222	1,005	1,297	1,440
Far Eastern Curlew <i>N. madagascariensis</i>	1	2	5	8	6	7	6	5
Spotted Redshank <i>Tringa erythropus</i>	3	83	242	328	269	143	355	562
Common Redshank <i>T. totanus</i>	812	879	1,030	2,721	2,270	1,875	1,291	1,899
Marsh Sandpiper <i>T. stagnatilis</i>	1,264	1,098 ^a	756	2,020	2,953	2,630	2,413	2,393
Common Greenshank <i>T. nebularia</i>	799 ^a	921	657	1,578	2,144	1,846	1,558	1,924
Nordmann's Greenshank <i>T. guttifer</i>	0	1	16 ^c	17	49	25	11	25
Green Sandpiper <i>T. ochropus</i>	2 ^b	23	1 ^b	23	48	30	26	40
Wood Sandpiper <i>T. glareola</i>	19 ^b	77	57	134	334	280	109	215
Terek Sandpiper <i>Xenus cinereus</i>	161	0	237	398	282	408	380	312
Common Sandpiper <i>Actitis hypoleucos</i>	7 ^b	106	6 ^b	106	51	87	97	92
Grey-tailed Tattler <i>Tringa brevipes</i>	4	0	119	123	45	82	248	22
Ruddy Turnstone <i>Arenaria interpres</i>	1	0	4	5	7	18	7	8
Red-necked Phalarope <i>Phalaropus lobatus</i>	2	0	1	3	2	5	14	2
Pintail/Swinhoe's Snipe <i>Gallinago stenura/megala</i>	3	0	1	4	2	4	1	4
Common Snipe <i>Gallinago gallinago</i>	0	15	1	16	7	37	21	23
Long-billed Dowitcher <i>Limnodromus scolopaceus</i>	1	0	1	2	3	2	2	1
Asian Dowitcher <i>Limnodromus semipalmatus</i>	14	0	71	85	95	138	145	50
Red Knot <i>Calidris canutus</i>	5	4	16	25	30	31	119	81
Great Knot <i>C. tenuirostris</i>	17	10 ^e	230	257	410	190	89	162
Sanderling <i>C. alba</i>	0	0	2	2	3	2	3	2

Year	2016	2016-17	2017	2016-17	2015-16	2014-15	2013-14	2012-13
Species	autumn	winter [#]	spring	Minimum	Minimum	Minimum	Minimum	Minimum
Red-necked Stint <i>C. ruficollis</i>	14	1	1,590	1,605	531	942	1,390	1,711
Little Stint <i>C. minuta</i>	0	0	4 ^d	4	2	2	4	5
Temminck's Stint <i>C. temminckii</i>	1	7	3	11	15	16	14	32
Long-toed Stint <i>C. subminuta</i>	2	0	6	8	12	28	9	7
Pectoral Sandpiper <i>C. melanotos</i>	0	0	0	0	0	2	1	0
Sharp-tailed Sandpiper <i>C. acuminata</i>	0	0	39	39	24	99	180	205
Dunlin <i>C. alpina</i>	302 ^a	4,300	1	4,301	3,952	1,724	4,195	5,033
Curlew Sandpiper <i>C. ferruginea</i>	3	0	5,127	5,130	7,653	5,654	5,775	5,447
Spoon-billed Sandpiper <i>C. pygmeus</i>	0	0	1	1	1	3	0	4
Broad-billed Sandpiper <i>C. falcinellus</i>	7	2 ^a	114	121	72	105	107	148
Ruff <i>C. pugnax</i>	1	0	0	1	2	2	3	1
<i>Tringa</i> spp.	0	0	0	0	0	0	0	0
Small wader spp. (mainly Dunlin or Kentish Plover)	0	799	0	799	0	0	0	0
Snipe spp.	0	0	0	0	0	0	0	0
NUMBER OF SPECIES PRESENT	38	30	43	45	45	49	47	47
AGGREGATE NUMBER OF ALL SHOREBIRD SPECIES	3,377*	17,732*	13,011*	34,120	38,801	35,647	37,560	41,503

Notes:

- # In mid-winter period of 2016-17, most of the shorebird species figures were collected from the monthly waterbird count because the figures were higher than that of the shorebird count. Only Great Knot and Broad-billed Sandpiper could have higher figures from the shorebird count (with mark ^).
- a. The figure of seasonal peak is not used in the calculation of aggregate number because it is likely that the individuals of the species were recorded in another season as they stayed in Deep Bay for a relatively long period. Adding up their seasonal peak numbers is likely to duplicate their actual population.
- b. The figures from the shorebird count were apparently incomplete count because these species are not largely mudflat-dependent. It is suggested to use the monthly waterbird count for calculation instead of the particular figure in autumn/spring.
- c. Sum of several peaks within the season which indicated different flocks of individuals.
- d. Numbers of different individuals recognized by plumage details were added up for a total number of the species in that season.
- e. The figure of seasonal peak is not used in the calculation of aggregate number because it is likely that the individuals were also recorded in another season. However, figure of minor peak is used as those individuals were probably belonged to another flock and not counted in other seasons.
- * While the sum of daily peak count of individual species in autumn, winter and spring were 5,834, 18,832 and 14,605 respectively, only 3,377, 17,732 and 13,011 were included in the calculation of annual aggregate number of all shorebird species. This is due to adjustments made by (i) the use of supplementary figures from monthly waterbird counts and (ii) the removal of numbers of individuals counted in more than one season and (iii) the addition of several peak counts within a single season.

3.1 Autumn 2016

The shorebird numbers started with a relatively high count of 1,093 individuals in mid-July, of which included passage flocks of 261 Greater Sand Plovers and 493 Common Redshanks. The numbers dropped slightly in the next two weeks before a notable influx of over 1,800 passage shorebirds recorded in early August. The number dropped and then returned to the level of 1,800 to 2,000 individuals in late September. More shorebirds continued to arrive and their number rose to over 3,600 individuals in the first week of October. The peak autumn count was finally recorded at 4,127 individuals of 19 species on 31 October, these would involve some wintering individuals in the Deep Bay area. This peak autumn count showed a decrease of 20% from that of the previous year (i.e. 5,136 individuals in 25 species). During autumn 2016, a total of 38 species of shorebird were recorded.

The aggregate number of all shorebird species in autumn 2016 was only 3,377 individuals of 38 species (Table 1), having a significant decrease of 36% from that of the previous year (i.e. 5,298 individuals of 39 species). The three most numerous shorebird species were the Marsh Sandpiper (1,264 individuals), Common Redshank (812 individuals) and Common Greenshank (799 individuals). The high number of Common Redshank in the early autumn could refer to passage individuals (Figure 13). While high numbers of Marsh Sandpiper and Common Greenshank were recorded in the end of October and these could involve some wintering individuals (Figures 14 and 15).

Other shorebirds such as Greater Sand Plover and Whimbrel also had peak counts in the early autumn (See Figures 7 and 10). Many of them did stop-over in the Deep Bay area to feed and rest before continuing their southward migration to their wintering grounds in Australia. Details of the shorebird counts conducted in autumn 2016 are provided in Figures 1 to 19.

3.2 Winter 2016-17

The shorebird counts were conducted in the winter period from mid-November 2016 to mid-February 2017. To enhance the accuracy, information collected in the monthly waterbird counts during mid-winter was also included in the analysis. During this period, the aggregate number of shorebird was 17,732 birds with 30 species (Table 1), having a small decrease of 4% from that of the previous year (i.e. 18,426 birds in winter 2015-16 of 28 species). The three most abundant species recorded in winter 2016-17 were Pied Avocet (5,031 individuals), Dunlin (4,300 individuals) and Eurasian Curlew (1,542 individuals).

3.3 *Spring 2017*

The spring shorebird count started on 24 March and recorded a total of 6,313 individuals. The first wave of passage shorebirds with a peak of 7,960 individuals was recorded on 28 March and the number then dropped significantly to 4,931 birds by the end of March. The count rose again in the first ten days of April and reached 9,981 individuals (of 29 species) on 10 April, which was the highest count in this spring. This peak count saw a decrease of 11% from that of last spring (i.e. 11,274 birds of 28 species). The third highest number was recorded at 7,162 individuals on 19 April and then the shorebird number decreased towards May. Most of the counts were around a level of 4,000 birds in the last week of April and there were fewer than 1,000 individuals after mid-May. Figure 20 shows the numbers of shorebirds in spring 2017.

Similar to previous years, Curlew Sandpiper was still the most abundant shorebird recorded in this spring. Its peak count was 5,127 individuals on 10 April, constituting 39% of the spring aggregate number (i.e. 13,011 individuals, Table 1 and 2, Figure 37). The figure was 33% lower than that of previous year (7,631 individuals on 13 April 2016). Most of the Curlew Sandpipers were recorded in the first half of April and their numbers were lower after mid-April. The second and third most abundance shorebird species in spring 2017 were Black-tailed Godwit (1,720 individuals on 10 April) and Red-necked Stint (1,590 individuals on 7 May).

Table 2 shows peak numbers of several shorebird species recorded in spring 2011-2017. It shows fluctuations of their numbers and no clear short-term trend could be identified. All these species have wintering population in Australia and individuals of this population pass through Deep Bay in spring. Their numbers, arrival date and length of stay in Deep Bay vary every spring because their strategy of migration depends on the weather and body condition of the birds. In general, four of these twelve species (i.e. Bar-tailed Godwit, Grey-tailed Tattler, Red-necked Stint and Sharp-tailed Sandpiper) had obviously higher peak counts than those of the previous year while six species (i.e. Pacific Golden Plover, Lesser Sand Plover, Nordmann's Greenshank, Red Knot, Long-toed Stint and Curlew Sandpiper) had obviously lower peak numbers. The aggregate number of shorebird in spring 2017 was 14% lower than that of 2016, but similar to the numbers in 2013 to 2015. Details of the shorebird count conducted in spring 2017 are provided in Figure 21 to 38.

Table 2. Peak counts of some shorebird species in spring 2011-2017.

Species	2017	2016	2015	2014	2013	2012	2011
Pacific Golden Plover <i>Pluvialis fulva</i>	203	405	476	221	94	245	305
Lesser Sand Plover <i>Charadrius mongolus</i>	41	82	122	37	64	14	79
Bar-tailed Godwit <i>Limosa lapponica</i>	25	8	227	34	117	20	9
Nordmann's Greenshank <i>Tringa guttifer</i>	16	47	24	10	22	34	44
Grey-tailed Tattler <i>Tringa brevipes</i>	119	36	63	239	17	13	13
Ruddy Turnstone <i>Arenaria interpres</i>	4	6	17	7	7	5	34
Red Knot <i>Calidris canutus</i>	16	27	26	96	76	5	25
Great Knot <i>Calidris tenuirostris</i>	230	278	122	70	94	106	157
Red-necked Stint <i>C. ruficollis</i>	1,590	522	906	1,330	1,770	300	956
Long-toed Stint <i>C. subminuta</i>	6	12	25	5	5	6	59
Sharp-tailed Sandpiper <i>C. acuminata</i>	39	22	96	179	197	15	130
Curlew Sandpiper <i>C. ferruginea</i>	5,127	7,631	5,606	5,760	5,440	6,147	5,794
Aggregate number of all shorebird species recorded in spring	13,011	15,077	13,269	12,580	13,280	11,185	16,187

3.4 Summer 2017

Many shorebirds had left the Deep Bay area in the course of May and so the surveys in summer months (i.e. June and July) usually recorded low numbers of shorebird. There were only 138 birds on 12 June, 39 birds on 25 June and 32 birds on 10 July 2017. These figures were low compared to the corresponding figures in the previous year (27, 154 and 415 individuals in summer 2016). Maintenance works in *gei wai* 16/17 of MPMNR had been in progress throughout the summer and the *gei wai* was drained most of the time during the summer. Hence there was no large and suitable high-tide roost available for a larger number of shorebirds. The *gei wai*, where Black-winged Stilt and Greater Painted Snipe were usually found breeding in the wet vegetated area, also became unfavourable for the breeding shorebirds. During summer 2017, the peak count of Black-winged Stilt was only 14 individuals and no Greater Painted Snipe were found. The highest number of all shorebird species was 42 Pied Avocets on 12 June.

3.5 Overview 2016-17

The aggregate number of all shorebird species estimated to have used the

Ramsar Site in 2016-17, shown in Table 1, was 34,120 individuals, a moderate decrease of 12% from that of 2015-16 (38,801 individuals). The aggregate number in winter constituted the largest proportion (52%) of the 2016-17 aggregate. The sum of autumn and spring aggregates was 16,388 individuals, having a significant decrease of 20% from the same figure of the previous year (20,375 individuals in 2015-16). The 10 most numerous shorebird species recorded in the 12-month period from July 2016 to June 2017, in decreasing order, were: Curlew Sandpiper (5,130 individuals, 15.0% of aggregate number of all species), Pied Avocet (5,031 individuals, 14.7%), Dunlin (4,301 individuals, 12.6%), Black-tailed Godwit (2,903 individuals, 8.5%), Common Redshank (2,721 individuals, 7.9%), Marsh Sandpiper (2,020 individuals, 5.9%), Red-necked Stint (1,605 individuals, 4.7%), Common Greenshank (1,578 individuals, 4.6%), Eurasian Curlew (1,542 individuals, 4.5%) and Kentish Plover (1,097 individuals, 3.2%).

The peak count on a single day was not a representative figure of the total abundance of shorebird utilizing an area, because turnover of the birds during the passage periods was not taken into account. There was no local study in this aspect but studies carried out in Morocco and Malaysia using marked birds (Howes and Bakewell 1989) found that the total number of shorebirds using a given area during migration lay in the range of 3 to 4.5 times the peak daily count of passage shorebirds. By applying this finding to the aggregate of 16,388 observable shorebirds recorded in autumn and spring, it was estimated that the Deep Bay area supported a flow of 49,164 to 73,746 passage shorebirds during the migratory season in 2016-17.

3.6 Regionally important populations

Reviews and estimates of the known shorebird population size and the 1% level of the flyway or regional population of all waterbird species were adopted from the Wetlands International (2017). Table 3 is an extract of migratory shorebirds utilising the Mai Po Inner Deep Bay Ramsar Site during the period from July 2016 to July 2017 whose numbers exceeded the 1% level of the flyway or regional population.

Table 3. Counts of shorebird species recorded in the Deep Bay area from July 2016 to July 2017 which were higher than 1% of their flyway or regional population.

Species	Flyway/regional population	1% threshold	Number recorded	Percentage
Pied Avocet <i>Recurvirostra avosetta</i>	100,000	1,000	5,031	5.0%
Pacific Golden Plover <i>Pluvialis fulva</i>	100,000	1,000	1,056	1.1%
Kentish Plover * <i>Charadrius alexandrinus</i>	100,000	1,000	1,097	1.5%
Greater Sand Plover <i>Charadrius leschenaultii</i>	79,000	790	798	1.0%
Black-tailed Godwit <i>Limosa limosa</i>	139,000	1,400	2,903	2.1%
Eurasian Curlew <i>Numenius arquata</i>	100,000	1,000	1,542	1.5%
Spotted Redshank <i>Tringa erythropus</i>	25,000	250	328	1.3%
Common Redshank <i>Tringa totanus</i>	10,000-100,000	1,000	2,271	2.3%
Common Greenshank <i>Tringa nebularia</i>	100,000	1,000	1,578	1.6%
Nordmann's Greenshank <i>Tringa guttifer</i>	400-600	5	17	3.4%
Curlew Sandpiper <i>Calidris ferruginea</i>	135,000	1,400	5,130	3.7%

* White-faced Plover *Charadrius dealbatus* in Wetlands International (2017)

3.7 Globally threatened species

The following globally threatened and near-threatened species listed in BirdLife International (2017) were recorded from mid-July 2016 to mid-July 2017:

- Black-tailed Godwit (Near-threatened): A total of 2,903 individuals were recorded in the 12-month period, including peak counts of 1,183 and 1,720 in winter and spring periods respectively. This aggregate number had an increase of 9.3% from that of the previous year (2,656 individuals) and in fact both seasonal figures were also higher than the corresponding figures of the previous year. The 1% regional population level is set as 1,400 individuals (Wetlands

International 2017), hence the Deep Bay area supported 2.1% of the regional population in 2016-17 (Table 3).

- Bar-tailed Godwit (Near-threatened): A total of 65 individuals were recorded in the 12-month period (with peak counts of 34 birds in autumn, 6 in winter and 25 in spring). This aggregate number was almost three times higher than the figure of the previous year (i.e. 23 individuals in 2015-16), but this is still far lower than the high number of 237 individuals in 2014-15.
- Eurasian Curlew (Near-threatened): This species presented regularly in the Deep Bay area throughout the non-breeding period. A total of 1,542 individuals in the mid-winter period was the peak number of this year, having an increase of 26% from that of the previous year (1,222 individuals). Applying the criterion that 1% of the regional population was 1,000 individuals (Wetlands International 2017), the Deep Bay area supported 1.5% of the regional population in 2016-17 (Table 3).
- Far Eastern Curlew (Endangered): A total of eight individuals were recorded in this 12-month period (1 in autumn, 2 in winter and 5 in spring). This aggregate number is similar to that of the previous years (6 individuals in 2015-16 and 7 individuals in 2014-15).
- Nordmann's Greenshank (Endangered): This little-known shorebird has a small and declining world population of 600 to 1,300 mature individuals. A total of 17 individuals (including 1 in winter, 10 adults and 6 with first-summer plumage in spring) were recorded in this 12-month period. This aggregate number had a considerable decrease of 65.3% from that of the previous year (49 individuals). The 1% population level is set at 5 individuals, this aggregate number is therefore equivalent to 3.4% of the world population.
- Grey-tailed Tattler (Near-threatened): This species was listed as Near-threatened since 2014 due to rapid population decline by on-going habitat loss and degradation (BirdLife International 2017). A total of 123 individuals were recorded in this 12-month period, including 4 in autumn and 119 in spring (Table 2). This aggregate was 2.7 times that of the previous year (45 individuals).
- Asian Dowitcher (Near-threatened): This species has a small world population and is facing threats from pollution and development in the wintering grounds

and breeding grounds (BirdLife International 2017). A total of only 85 individuals were recorded in this 12-month period (14 in autumn and 71 in spring). This aggregate was 10.5% lower than that of the previous year (95 individuals).

- Great Knot (Endangered): A total of 257 individuals were recorded in this 12-month period, including 17 individuals in autumn, 10 in winter and 230 in spring. This aggregate number was 37.3% lower than that of the previous year, but the figure in 2015-16 (410 individuals) was exceptional.
- Red Knot (Near-threatened): A total of 25 individuals were recorded in 2016-17, including 5 individuals in autumn, 4 in winter and only 16 in spring. The aggregate number decreased for 16.7% from that of the previous year (30 individuals).
- Curlew Sandpiper (Near-threatened): A total of 5,130 individuals were recorded in this 12-month period, including 3 individuals in autumn and 5,127 in spring. This aggregate had a decrease of 33.0% from the figure of the previous year (7,653 individuals). Regardless of the declines, it was still the most numerous shorebird recorded in the Deep Bay area during the spring migratory period. The 1% regional population level is set at 1,400 individuals (Wetlands International 2017), hence the Deep Bay area supported 3.7% of the regional population in 2016-17 (Table 3).
- Red-necked Stint (Near-threatened): A total of 1,605 individuals were recorded in this 12-month period, including 14 individuals in autumn, 1 in winter and 1,590 in spring. This aggregate number was three times that of the previous year (531 individuals). This species is now suffering from a reported population decline of 29% over three generations (BirdLife International 2017).
- Spoon-billed Sandpiper (Critically Endangered): This charismatic shorebird is now facing extremely high risk of extinction in near future as it has only a small but rapidly declining population of 240 to 400 mature individuals (BirdLife International 2017). One was recorded at Mai Po boardwalk on 16 and 18 May.

3.8 Sightings of leg-flagged shorebirds

Some migratory shorebirds were fitted with colour flag(s) in different countries or regions for studies of their migration routes. The re-sighting records of these

leg-flagged birds were also collected during the shorebird counts to serve as a reference about the flyway and site/habitat preferences of these migratory waterbirds. These re-sighting records included direct observations by shorebird count surveyors, reports from bird watchers and photographers, and information posted on the HKBWS's website. In this 12-month period, we collected a total of 346 sightings, having a decrease of 4% from that of the previous year (361 sightings). Among all sighting records, there was a total of 256 sightings (74%) from birds fitted with local Hong Kong leg flags (white/yellow). The remaining 90 (26%) sightings referred to birds with overseas leg flags, of which 47 (13%) were originated from North Western Australia and 14 (4%) from Victoria of Australia. Other flagged shorebird sightings in the Deep Bay areas also revealed their origins including Bohai Bay, Jiangsu, Chongming Island of Shanghai, Inner Gulf of Thailand, South Australia, South Island of New Zealand, Taiwan, and one bird from unknown origin.

In terms of species with leg flags, flagged Grey Plovers were recorded in the highest number of re-sightings but all referred to local Hong Kong flagged individuals (78 re-sightings, 23%). Excluding all local re-sightings, the highest numbers were 27 (8%) sightings of overseas flagged Red-necked Stints and 22 (6%) sightings from flagged Curlew Sandpipers. Other shorebird species found with overseas leg-flags included Greater Sand Plover, Eurasian Curlew, Terek Sandpiper, Grey-tailed Tattler, Ruddy Turnstone, Great Knot, Red Knot and Broad-billed Sandpiper. The list of these re-sighted individuals is provided in Appendix 5. Some flagged shorebirds, e.g. Black-tailed Godwits, Common Greenshanks, Common Redshanks and Marsh Sandpipers, have been recorded in at least four years from 2011 to 2017 in the Deep Bay area. The list of these frequently re-sighted individuals is provided in Appendix 6.

3.9 Other observations

Shorebird count had been conducted since 1998, so the data of this count could provide a picture of the long-term shorebird abundance trend. Table 4 shows the annual aggregate numbers in the past ten years and the total of 34,120 individuals recorded in 2016-17 is the lowest among these ten years. In addition, a decreasing trend of this annual aggregate number is shown in these recent ten years. The global or regional decline of shorebird population has been noted in other areas along the East Asian-Australasian Flyway (Amano *et. al.* 2010, Clemens *et. al.* 2016), the trend of shorebird abundance in the Deep Bay area just echoed to this global/regional decline of shorebirds.

Table 4. Annual shorebird aggregates in the past ten years.

2016-17	2015-16	2014-15	2013-14	2012-13	2011-12	2010-11	2009-10	2008-09	2007-08
34,120	38,801	35,647	37,560	41,503	43,687	38,223	53,300	54,457	50,582

The Hong Kong Wetland Park (HKWP) has been found with large number of shorebird roosting during the high tide period since 2012. A total of 24 systematic and synchronous shorebird survey were conducted from 24 March to 31 May 2017 to provide comparable and supplementary figures to the data collected from the survey at Mai Po Marshes Nature Reserve. The results showed the HKWP was an important roosting site for shorebirds because high number of 2,010 shorebirds were counted on 31 March and there were five other counts with more than 1,000 shorebirds this spring. The highest count of a single shorebird species at HKWP was 1,100 individuals Curlew Sandpipers on 25 April 2017. Therefore, further shorebird surveys at HKWP, particularly during spring, are suggested.

Mudskipper collectors were occasionally found during shorebird counts. They would have caused disturbance to the feeding shorebirds in the mudflat area. Hence, regular patrols from AFCD are important to control the situation. Less aggravation or disturbances to the shorebirds will ensure a more accurate count for this important waterbird monitoring activity.

4. Acknowledgements

We would like to thank members of the HKBWS for providing sighting reports of colour-flagged shorebirds. We are also grateful to the staffs of the Hong Kong Wetland Park to provide data of the survey at the Hong Kong Wetland Park.

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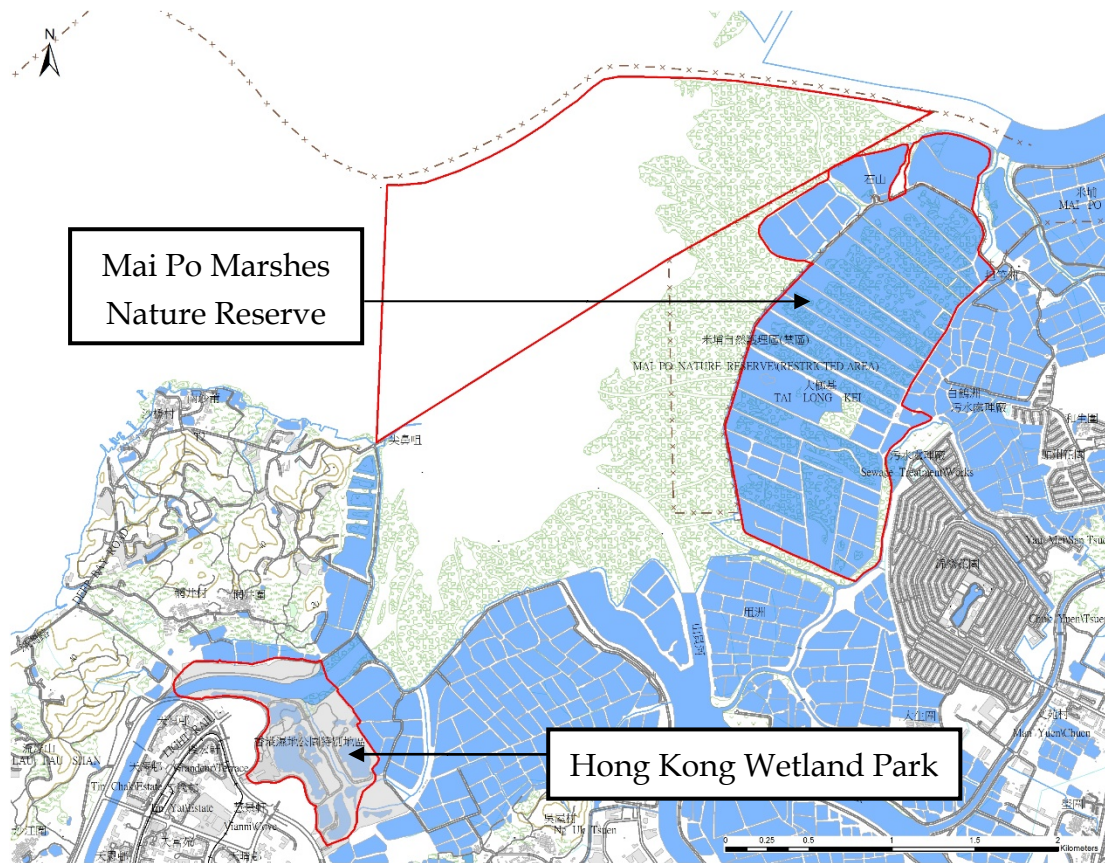
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Map 1. Locations of the Mai Po Marshes Nature Reserve and the Hong Kong Wetland Park – the survey sites under study in the Shorebird Monitoring Programme, 2016-17.





Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

Appendix 1

Counts of shorebirds in the Mai Po Inner Deep Bay
Ramsar Site in autumn 2016.



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
Department

Counts of shorebirds in the Mai Po Inner Deep Bay Ramsar Site in autumn 2016.

	16-21 Jul	22-28 Jul	29 - 4 Aug	5-11 Aug	12-18 Aug	19-25 Aug	26-1 Sep	2 -8 Sep	9-15 Sep	16-22 Sep	23-29 Sep	30 - 6 Oct	7-13 Oct	14-20 Oct	21-27 Oct	28- 3 Nov
Pheasant-tailed Jacana	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2
Greater Painted-snipe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Black-winged Stilt	5	0	5	6	13	66	89	30	65	22	29	24	26	41	144	58
Pied Avocet	0	0	1	28	14	0	94	11	30	119	63	237	55	193	384	281
Oriental Pratincole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Northern Lapwing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grey-headed Lapwing	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
Pacific Golden Plover	0	0	0	5	9	73	87	93	87	28	124	87	46	16	173	102
Grey Plover	0	0	0	6	0	14	0	0	0	6	16	24	40	0	7	6
Common Ringed Plover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Ringed Plover	0	0	0	0	5	0	0	0	0	0	0	1	5	0	0	0
Kentish Plover	0	0	0	0	0	0	0	0	0	22	53	78	293	15	147	196
Lesser Sand Plover	0	0	0	0	0	0	2	0	0	3	0	0	0	0	0	0
Greater Sand Plover	261	364	151	336	163	27	59	80	0	114	18	14	164	4	13	2
Oriental Plover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Black-tailed Godwit	28	0	22	115	107	261	306	382	405	577	213	445	548	512	568	661
Bar-tailed Godwit	0	0	0	0	0	0	0	15	2	34	20	18	23	3	0	0
Little Curlew	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	16-21 Jul	22-28 Jul	29 - 4 Aug	5-11 Aug	12-18 Aug	19-25 Aug	26-1 Sep	2 -8 Sep	9-15 Sep	16-22 Sep	23-29 Sep	30 - 6 Oct	7-13 Oct	14-20 Oct	21-27 Oct	28- 3 Nov
Whimbrel	0	14	0	45	89	57	151	102	11	13	13	18	19	1	9	3
Eurasian Curlew	55	81	62	62	31	112	95	78	69	62	91	39	134	112	128	126
Far Eastern Curlew	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	1
Spotted Redshank	0	0	0	0	0	0	0	0	0	0	3	1	0	3	0	3
Common Redshank	493	223	578	812	286	185	303	254	328	46	144	225	520	291	473	313
Marsh Sandpiper	5	0	2	3	33	4	56	182	275	673	407	1186	1030	864	1045	1264
Common Greenshank	237	171	170	271	171	86	262	350	492	252	687	425	481	545	363	799
Nordmann's Greenshank	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green Sandpiper	0	0	0	0	0	0	1	0	2	0	0	0	1	0	0	0
Wood Sandpiper	3	0	3	4	0	0	7	3	11	0	3	2	2	0	19	0
Terek Sandpiper	4	5	0	161	0	2	0	0	25	25	1	7	11	1	3	0
Common Sandpiper	0	3	1	2	2	0	0	1	0	2	2	4	7	0	2	0
Grey-tailed Tattler	0	0	0	3	0	1	0	0	0	4	2	2	2	0	0	0
Ruddy Turnstone	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
Red-necked Phalarope	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0
Pintail/Swinhoe's Snipe	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0
Common Snipe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Long-billed Dowitcher	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	1
Asian Dowitcher	1	0	0	14	1	0	0	0	0	0	0	0	0	1	0	0
Red Knot	0	0	0	1	0	0	0	1	5	0	0	2	4	0	4	0

	16-21 Jul	22-28 Jul	29 - 4 Aug	5-11 Aug	12-18 Aug	19-25 Aug	26-1 Sep	2 -8 Sep	9-15 Sep	16-22 Sep	23-29 Sep	30 - 6 Oct	7-13 Oct	14-20 Oct	21-27 Oct	28- 3 Nov
Great Knot	0	0	0	0	0	0	6	11	5	11	6	14	17	0	17	0
Sanderling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red-necked Stint	1	13	2	0	8	2	14	0	0	0	0	1	5	0	6	0
Little Stint	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Temminck's Stint	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0
Long-toed Stint	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pectoral Sandpiper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sharp-tailed Sandpiper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dunlin	0	0	0	0	0	0	2	0	1	12	15	3	169	0	125	302
Curlew Sandpiper	0	0	0	0	2	0	0	0	3	0	0	1	0	0	0	0
Spoon-billed Sandpiper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Broad-billed Sandpiper	0	0	0	0	0	0	4	0	7	0	1	0	2	0	0	6
Ruff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Sand Plover sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small wader sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large <i>tringa</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total:	1,093	876	997	1,874	934	890	1,538	1,594	1,825	2,029	1,912	2,860	3,610	2,604	3,630	4,127



Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

Appendix 2

Counts of shorebirds in the Mai Po Inner Deep Bay
Ramsar Site in winter 2016-17.



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
Department

Counts of shorebirds in the Mai Po Inner Deep Bay Ramsar Site in winter
2016-17.

	15-Nov	13-Dec	14-Jan	13-Feb
Pheasant-tailed Jacana	0	0	0	0
Greater Painted-snipe	0	0	0	0
Black-winged Stilt	48	24		21
Pied Avocet	212	472	1542	1162
Oriental Pratincole	0	0	0	0
Northern Lapwing	0	0	0	0
Grey-headed Lapwing	0	0	0	0
Pacific Golden Plover	96	7	7	25
Grey Plover	192	332	106	407
Common Ringed Plover	0	0	0	0
Little Ringed Plover	0	0	0	0
Kentish Plover	56	132	76	1
Lesser Sand Plover	0	1	0	0
Greater Sand Plover	7	7	0	0
Oriental Plover	0	0	0	0
Black-tailed Godwit	428	558	0	392
Bar-tailed Godwit	1	4	0	0
Little Curlew	0	0	0	0
Whimbrel	2	1	2	2
Eurasian Curlew	152	412	542	784
Far Eastern Curlew	1	0	0	1
Spotted Redshank	0	0	0	0
Common Redshank	244	83	78	42
Marsh Sandpiper	215	221	72	3
Common Greenshank	292	369	342	285
Nordmann's Greenshank	1	0	1	0
Green Sandpiper	0	0	0	0
Wood Sandpiper	0	0	0	0
Terek Sandpiper	0	0	0	0
Common Sandpiper	0	0	1	1
Grey-tailed Tattler	0	0	0	0
Ruddy Turnstone	0	0	0	0
Red-necked Phalarope	0	0	0	0

	15-Nov	13-Dec	14-Jan	13-Feb
Pintail/Swinhoe's Snipe	0	0	0	0
Common Snipe	0	0	0	0
Long-billed Dowitcher	0	0	0	0
Asian Dowitcher	0	0	0	0
Red Knot	2	0	0	0
Great Knot	16	10	0	0
Sanderling	0	0	0	0
Red-necked Stint	0	0	0	0
Little Stint	0	0	0	0
Temminck's Stint	0	0	0	0
Long-toed Stint	0	0	0	0
Pectoral Sandpiper	0	0	0	0
Sharp-tailed Sandpiper	0	0	0	0
Dunlin	414	942	162	0
Curlew Sandpiper	0	0	0	0
Spoon-billed Sandpiper	0	0	0	0
Broad-billed Sandpiper	2	0	0	0
Ruff	0	0	0	0
Sand Plover sp.	0	0	0	0
Small wader sp.	0	0	0	0
Tringas/godwits	0	0	0	0
Total:	2,381	3,575	2,931	3,126

Peak count of each shorebird species, mid-winter period (December to February) 2016-17 (Anon. 2017).

Pheasant-tailed Jacana	1
Greater Painted-snipe	0
Black-winged Stilt	580
Pied Avocet	5,031
Oriental Pratincole	0
Northern Lapwing	0
Grey-headed Lapwing	17
Pacific Golden Plover	680
Grey Plover	693
Common Ringed Plover	0

Little Ringed Plover	164
Kentish Plover	575
Lesser Sand Plover	1
Greater Sand Plover	24
Black-tailed Godwit	1,183
Bar-tailed Godwit	6
Whimbrel	7
Eurasian Curlew	1,542
Far Eastern Curlew	2
Spotted Redshank	83
Common Redshank	879
Marsh Sandpiper	1098
Common Greenshank	921
Nordmann's Greenshank	1
Green Sandpiper	23
Wood Sandpiper	77
Terek Sandpiper	0
Common Sandpiper	106
Grey-tailed Tattler	0
Ruddy Turnstone	0
Red-necked Phalarope	0
Pintail Snipe	0
Swinhoe's Snipe	0
Pintail/Swinhoe's Snipe	0
Unidentified Snipe	0
Common Snipe	15
Long-billed Dowitcher	0
Asian Dowitcher	0
Red Knot	4
Great Knot#	10
Sanderling	0
Red-necked Stint	1
Little Stint	0
Temminck's Stint	7
Long-toed Stint	0
Pectoral Sandpiper	0
Sharp-tailed Sandpiper	0
Dunlin	4,300
Curlew Sandpiper	0

Spoon-billed Sandpiper	0
Broad-billed Sandpiper	0
Ruff	0
Unidentified small-sized shorebird	799
Unidentified shorebird	0
Sub-total:	18,830

Additional counts from shorebird count in mid-winter period.



Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

Appendix 3

Counts of shorebirds in the Mai Po Inner Deep Bay
Ramsar Site in spring and summer 2017.



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
Department

Counts of shorebirds in the Mai Po Inner Deep Bay Ramsar Site in spring and summer 2017.

	22-24 Mar	25-27 Mar	28-30 Mar	31-2 Apr	3-5 Apr	6-8 Apr	9-11 Apr	12-14 Apr	15-17 Apr	18-20 Apr	21-23 Apr	24-26 Apr	27-29 Apr	30-2 May	3-5 May	6-8 May	9-11 May	12-14 May	15-17 May	18-20 May	21-23 May	24-26 May	27-29 May	30-1 Jun	2-15 Jun	16-30 Jun	1-15 Jul
Pheasant-tailed Jacana	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Greater Painted-snipe	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Black-winged Stilt	9	5	20	107	17	60	41	65	64	4	15	56	17	10	17	27	21	10	10	12	10	11	19	11	14	10	11
Pied Avocet	1017	988	951	711	7	677	484	246	335	587	339	213	318	532	422	280	225	291	158	25	132	24	6	0	42	0	0
Oriental Pratincole	0	0	0	0	0	0	13	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
Northern Lapwing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grey-headed Lapwing	0	0	1	1	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	31	5	2	2	0	37	203	13	57	196	0	64	32	23	32	37	1	0	0	0	0	0	0	0	0	0	0
Grey Plover	203	324	204	14	11	82	79	3	0	0	0	67	78	9	106	128	73	59	28	62	29	17	19	20	25	0	0
Common Ringed Plover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Little Ringed Plover	8	0	2	0	1	0	0	2	3	3	2	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0
Kentish Plover	13	173	229	0	0	30	8	0	0	1	5	0	0	0	0	4	1	0	0	0	1	0	3	2	0	0	0
Lesser Sand Plover	8	10	10	1	11	20	41	2	19	11	18	0	8	0	23	37	15	4	4	8	5	1	7	9	0	0	0
Greater Sand Plover	23	215	284	13	222	410	387	29	197	177	93	18	91	20	153	191	74	32	61	62	97	0	84	48	0	0	0
Oriental Plover	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Black-tailed Godwit	0	143	530	395	752	940	1720	654	564	1470	213	517	284	103	235	11	6	2	14	0	4	0	0	0	0	0	0
Bar-tailed Godwit	4	10	3	3	11	3	0	3	3	25	0	4	4	1	2	4	2	0	0	3	3	2	2	3	0	0	0
Little Curlew	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Whimbrel	0	0	0	0	1	1	1	2	1	13	0	24	4	37	38	6	0	7	0	12	4	4	25	37	31	8	0

	22-24 Mar	25-27 Mar	28-30 Mar	31-2 Apr	3-5 Apr	6-8 Apr	9-11 Apr	12-14 Apr	15-17 Apr	18-20 Apr	21-23 Apr	24-26 Apr	27-29 Apr	30-2 May	3-5 May	6-8 May	9-11 May	12-14 May	15-17 May	18-20 May	21-23 May	24-26 May	27-29 May	30-1 Jun	2-15 Jun	16-30 Jun	1-15 Jul
Eurasian Curlew	131	11	108	44	43	45	26	18	11	19	0	17	5	23	23	20	7	23	17	18	0	24	24	26	22	21	18
Far Eastern Curlew	0	0	1	2	3	2	1	1	0	0	0	0	0	0	5	2	0	1	0	0	0	0	2	2	0	0	1
Spotted Redshank	59	79	54	100	115	45	82	138	153	101	93	111	242	90	97	5	24	15	1	0	0	0	0	2	0	0	0
Common Redshank	163	109	167	494	497	234	496	838	1030	289	260	502	763	422	389	213	109	0	22	28	8	0	8	0	0	0	2
Marsh Sandpiper	111	70	304	420	300	312	484	756	730	384	275	89	53	2	15	2	0	3	0	0	0	0	0	6	1	0	0
Common Greenshank	165	596	386	657	357	323	384	621	436	480	246	401	463	354	226	396	63	9	11	32	12	0	2	11	3	0	0
Nordmann's Greenshank	0	1	2	1	10	5	4	5	4	0	0	0	0	0	1	0	1	0	0	6	4	6	0	0	0	0	0
Green Sandpiper	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
Wood Sandpiper	11	6	5	2	47	5	5	21	57	15	14	0	0	1	16	0	0	0	0	0	0	0	0	0	0	0	0
Terek Sandpiper	3	0	9	7	63	98	42	133	93	34	33	13	48	1	33	237	9	1	1	3	15	3	83	72	0	0	0
Common Sandpiper	0	3	2	1	0	5	0	4	2	2	1	1	2	1	6	2	1	0	0	0	0	0	0	1	0	0	0
Grey-tailed Tattler	0	0	0	0	0	0	0	0	0	6	1	0	1	0	21	119	3	0	0	2	14	0	17	0	0	0	0
Ruddy Turnstone	0	0	1	1	0	3	1	0	1	4	0	1	1	2	4	4	2	1	0	0	0	0	0	0	0	0	0
Red-necked Phalarope	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pintail/Swinhoe's Snipe	0	0	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
Common Snipe	0	0	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
Long-billed Dowitcher	0	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Asian Dowitcher	0	0	0	0	0	0	0	1	13	8	4	71	22	19	1	0	1	0	0	0	0	0	0	0	0	0	0
Red Knot	4	3	3	0	0	3	2	0	3	7	0	0	0	1	2	15	11	16	11	0	2	8	0	1	0	0	0
Great Knot	35	46	32	19	62	230	104	76	53	96	0	11	0	0	0	0	2	0	6	32	13	28	1	16	0	0	0
Sanderling	0	0	0	0	0	1	2	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0

	22-24 Mar	25-27 Mar	28-30 Mar	31-2 Apr	3-5 Apr	6-8 Apr	9-11 Apr	12-14 Apr	15-17 Apr	18-20 Apr	21-23 Apr	24-26 Apr	27-29 Apr	30-2 May	3-5 May	6-8 May	9-11 May	12-14 May	15-17 May	18-20 May	21-23 May	24-26 May	27-29 May	30-1 Jun	2-15 Jun	16-30 Jun	1-15 Jul
Red-necked Stint	27	32	141	0	367	211	207	187	84	684	0	71	137	16	284	1590	242	112	123	256	115	0	0	5	0	0	0
Little Stint	0	0	0	0	0	0	1	0	2	0	0	0	0	0	2	0	0	0	0	1	1	0	0	0	0	0	0
Temminck's Stint	3	0	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
Long-toed Stint	0	0	0	0	0	0	6	0	4	3	0	0	0	0	0	1	2	0	0	1	0	0	0	0	0	0	0
Pectoral Sandpiper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sharp-tailed Sandpiper	0	0	1	0	2	0	1	4	4	0	1	0	0	3	15	0	23	39	13	12	13	2	1	1	0	0	0
Dunlin	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Curlew Sandpiper	4170	3805	4489	1925	3219	3389	5127	862	621	2540	785	1862	1761	0	2203	586	8	0	6	11	12	0	0	0	0	0	0
Spoon-billed Sandpiper	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
Broad-billed Sandpiper	114	5	17	9	43	30	29	18	11	3	0	6	11	0	23	43	4	1	3	0	2	0	0	0	0	0	0
Ruff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Small wader sp.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Large <i>tringa</i> sp.	0	0	0	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:	6,313	6,640	7,960	4,931	6,163	7,203	9,981	4,702	4,556	7,162	2,399	4,119	4,348	1,671	4,397	3,960	930	627	490	587	496	130	304	273	138	39	32



Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

Appendix 4

Figures of counts of shorebird species in Autumn 2016 and Spring 2017.



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
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Figure 1. Total number of shorebirds recorded at Mai Po Inner Deep Bay, autumn 2016

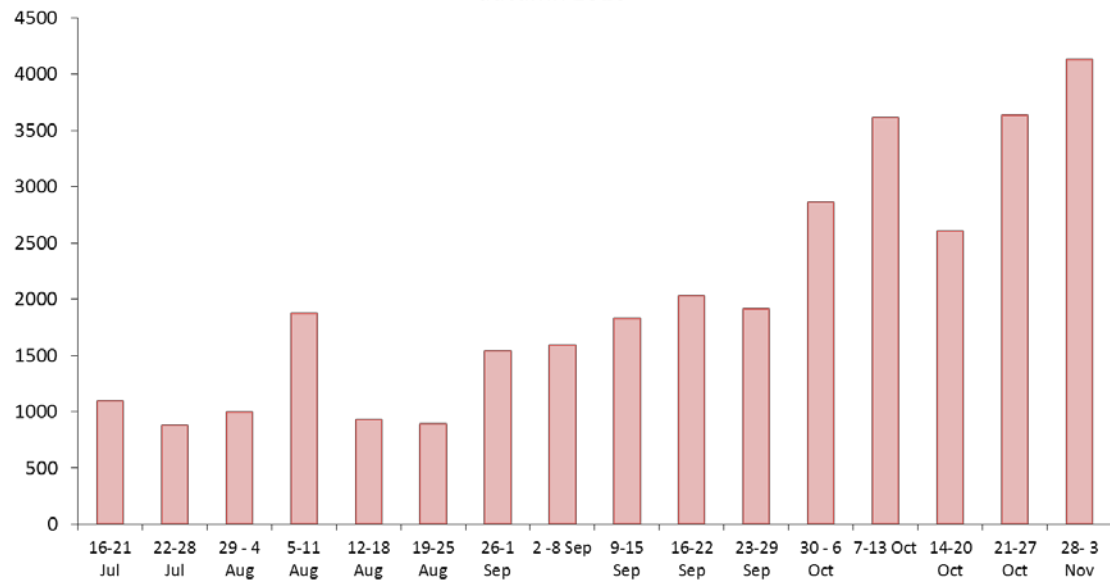


Figure 2. Counts of Black-winged Stilt at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

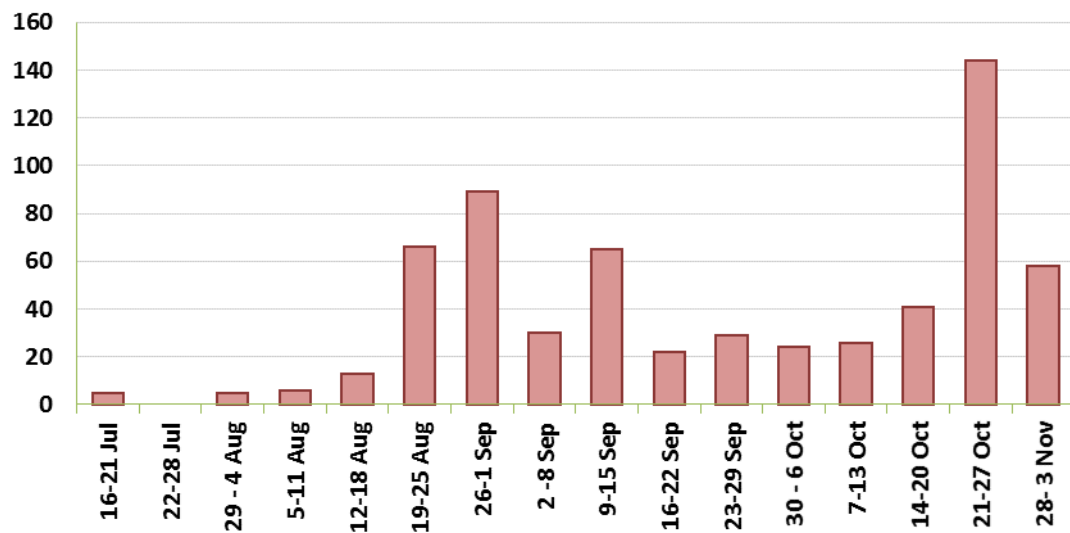


Figure 3. Counts of Pacific Golden Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

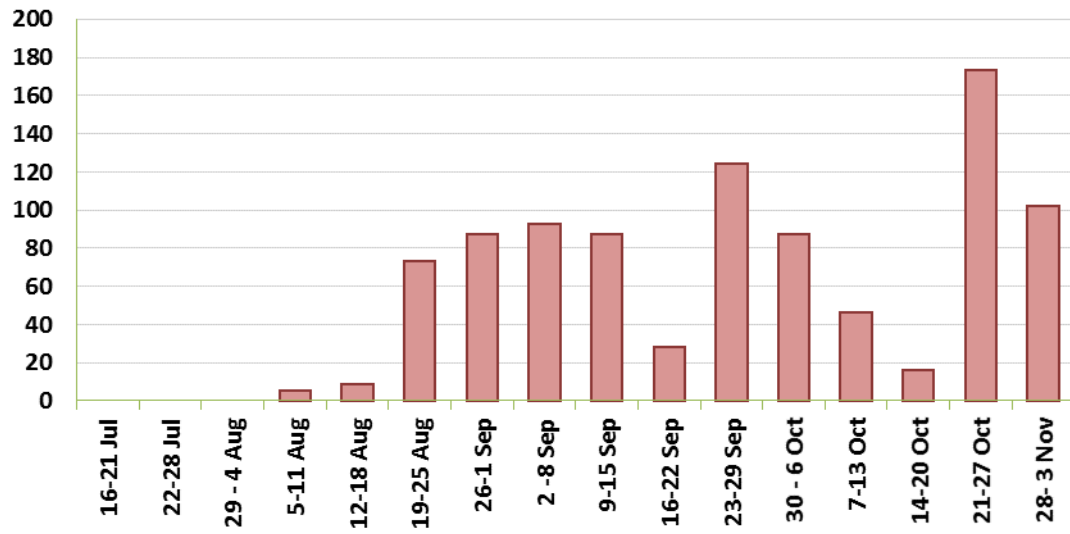


Figure 4. Counts of Kentish Plover at Mai Inner Deep Bay Ramsar Site, autumn 2016

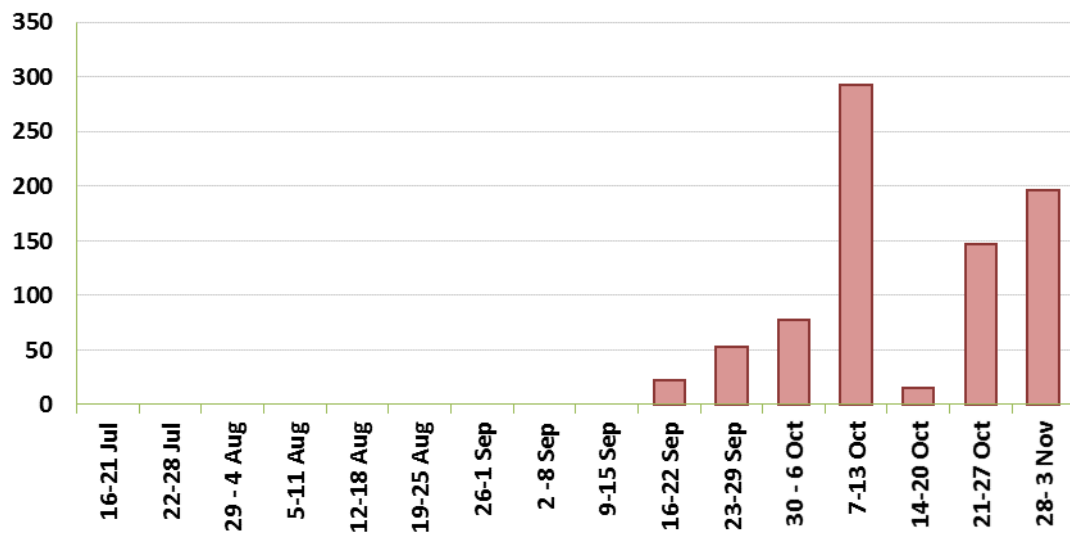


Figure 5. Counts of Grey Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

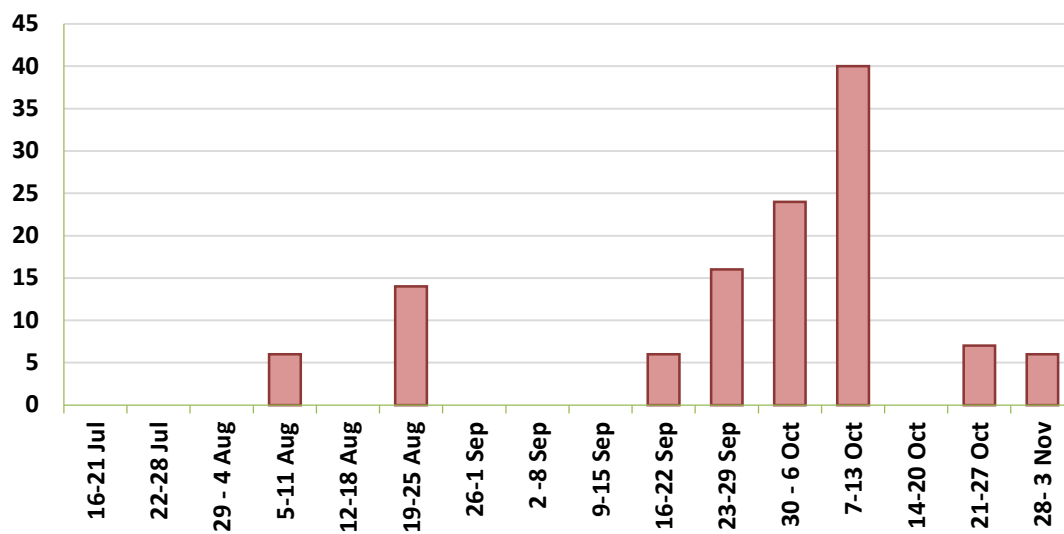


Figure 6. Counts of Lesser Sand Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

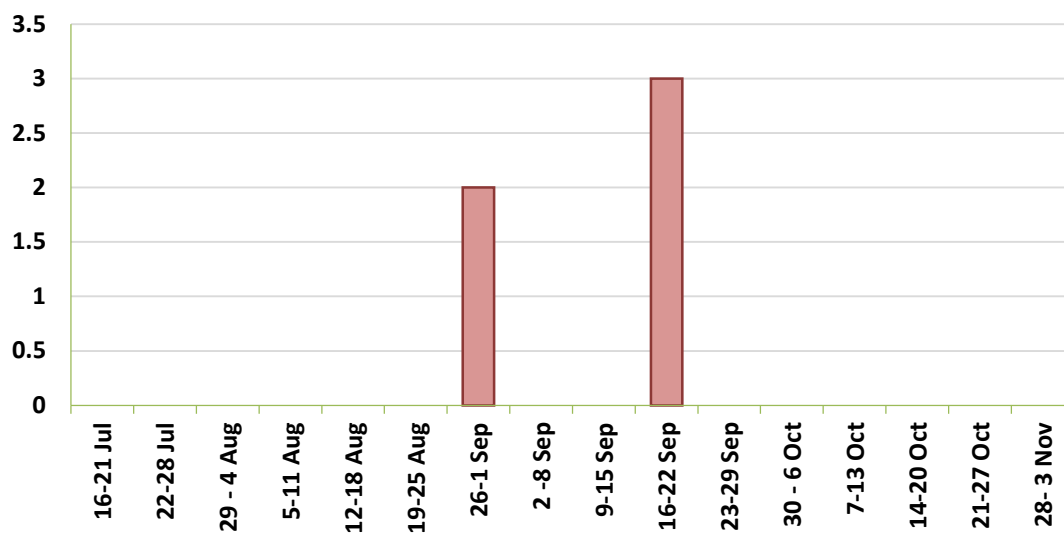


Figure 7. Counts of Greater Sand Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

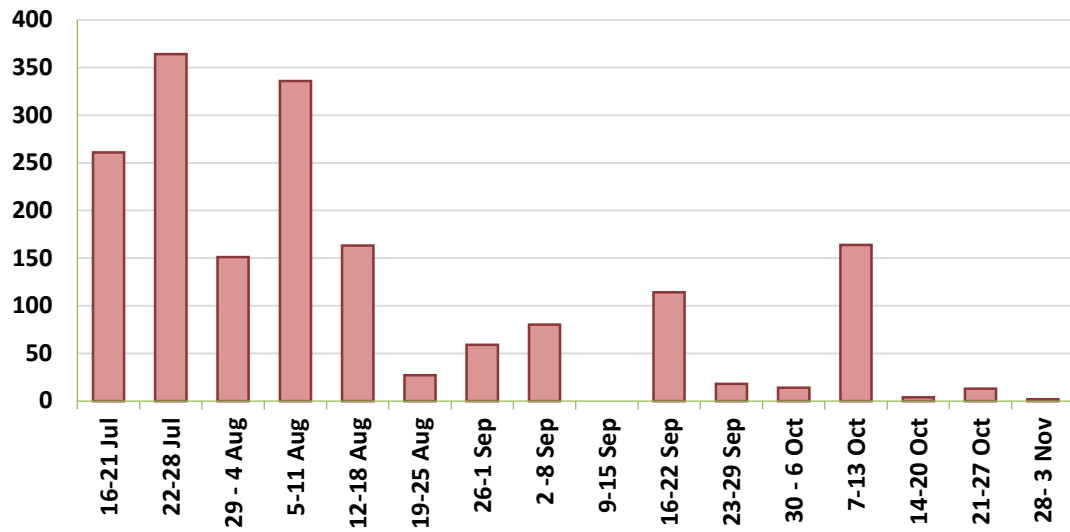


Figure 8. Counts of Black-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

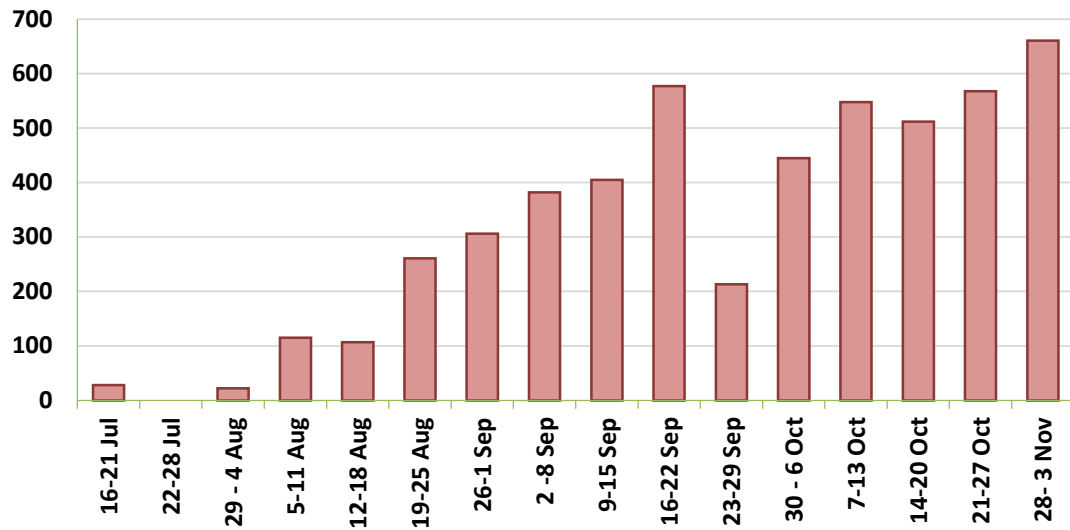


Figure 9. Counts of Bar-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

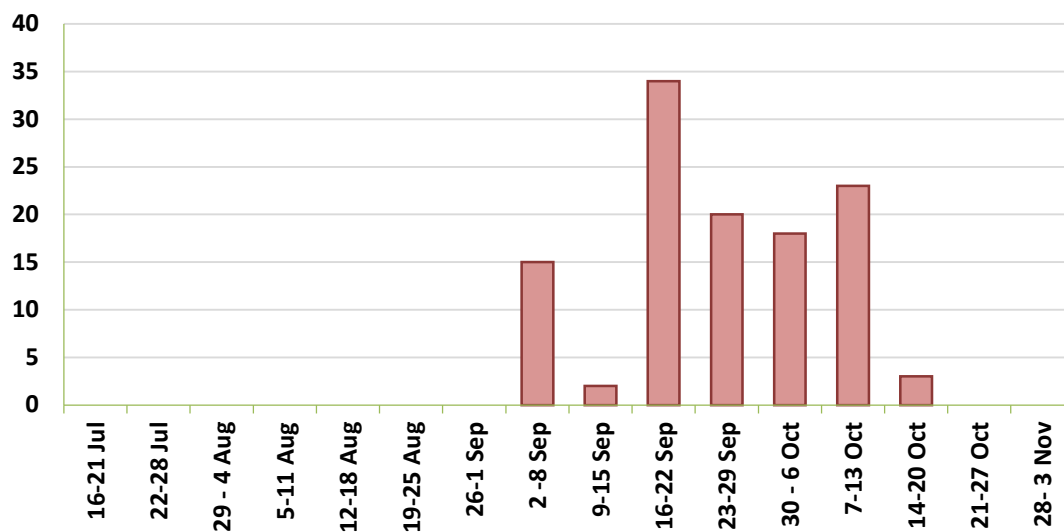


Figure 10. Counts of Whimbrel at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

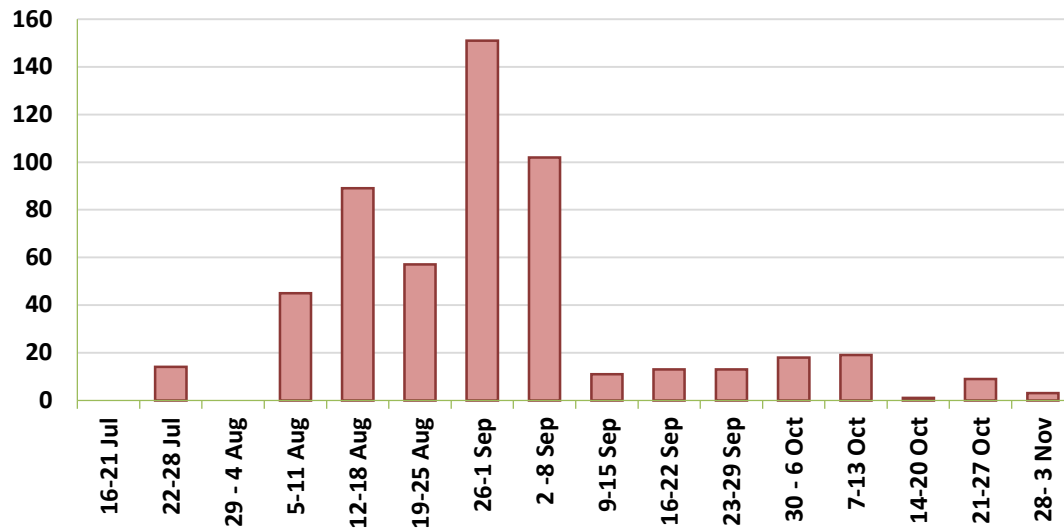


Figure 11. Counts of Eurasian Curlew at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

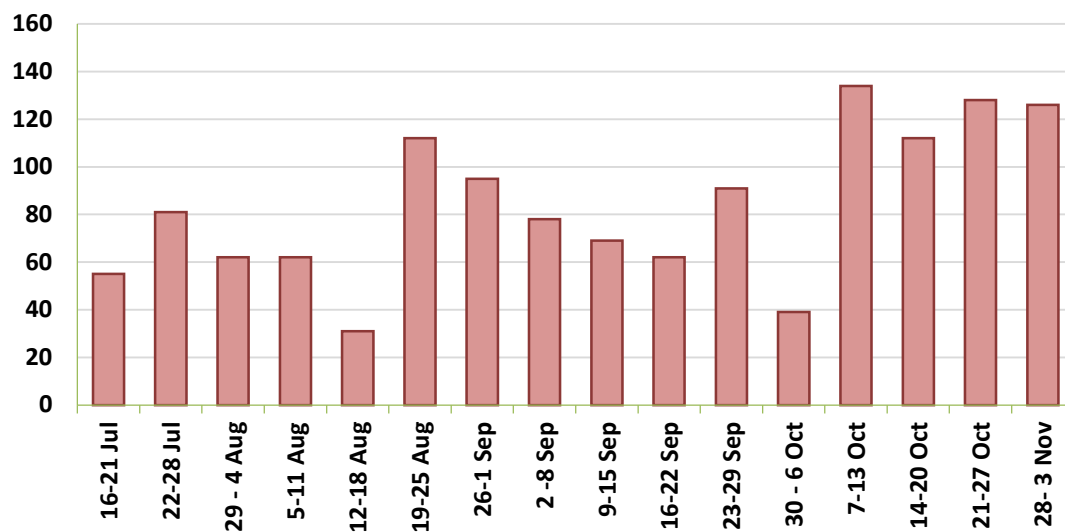


Figure 12. Counts of Spotted Redshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

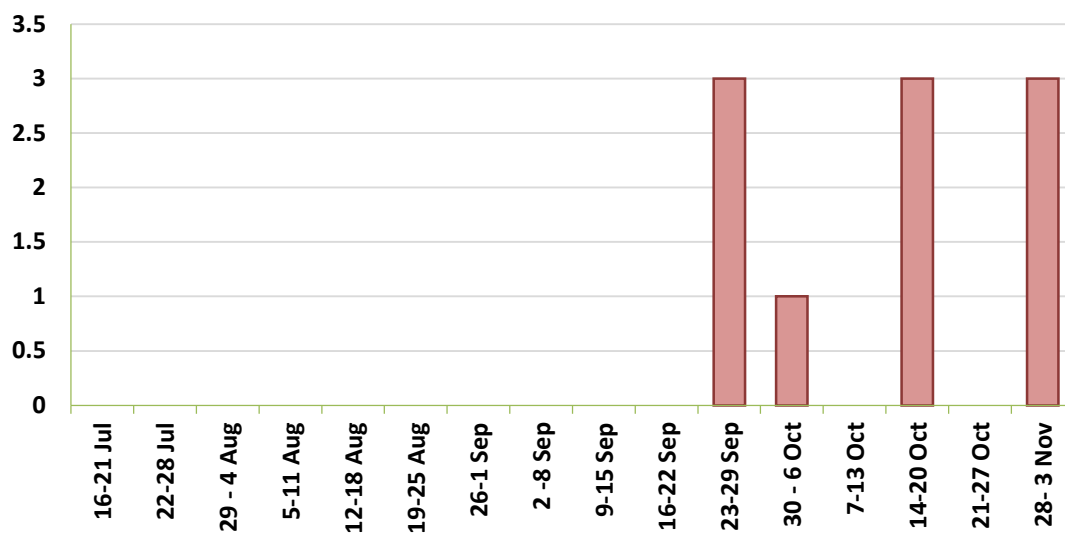


Figure 13. Counts of Common Redshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

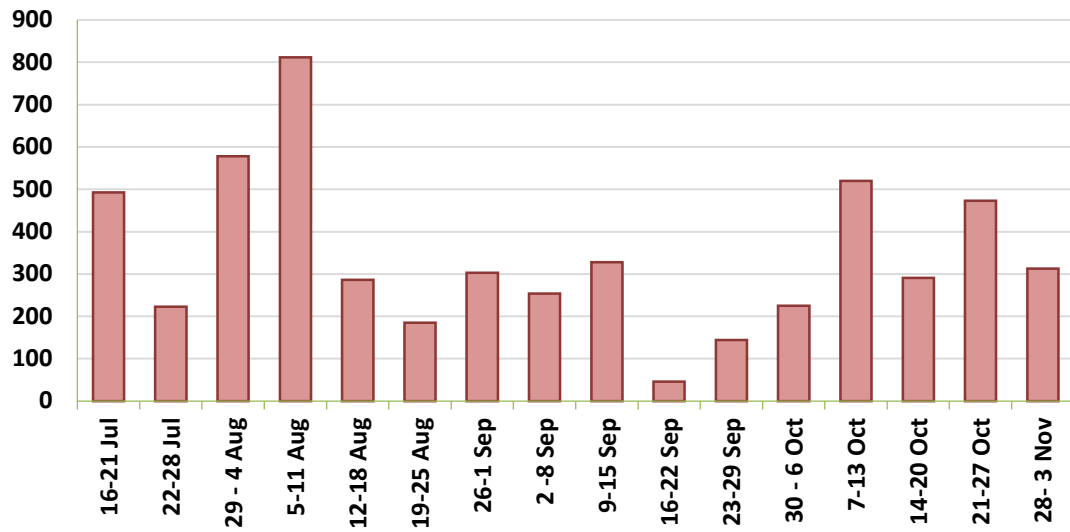


Figure 14. Counts of Marsh Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

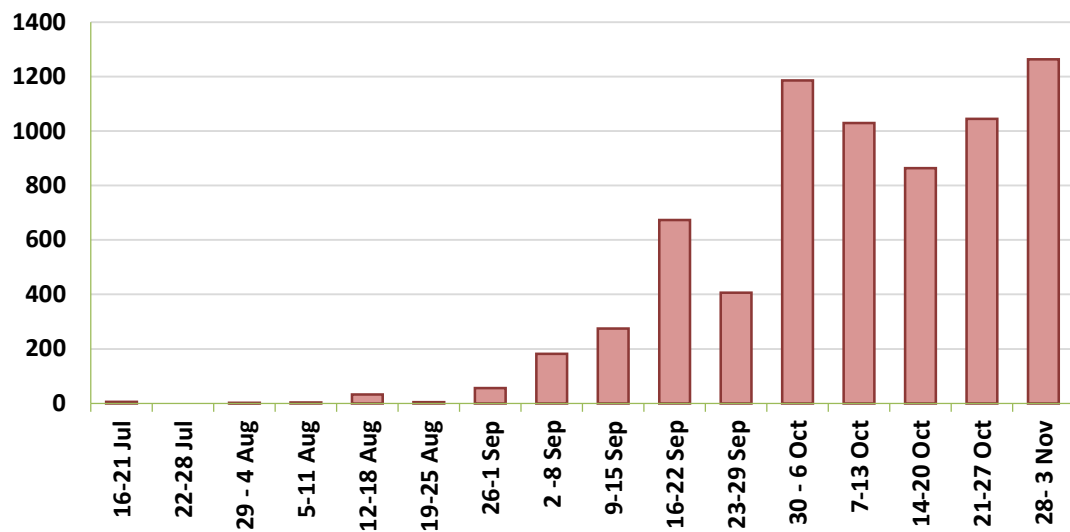


Figure 15. Counts of Common Greenshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

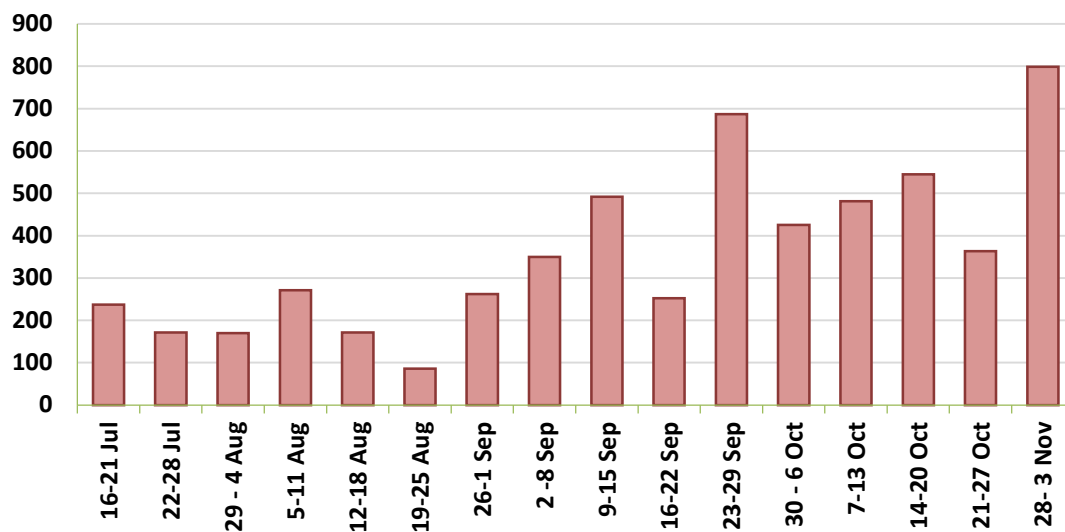


Figure 16. Counts of Wood Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

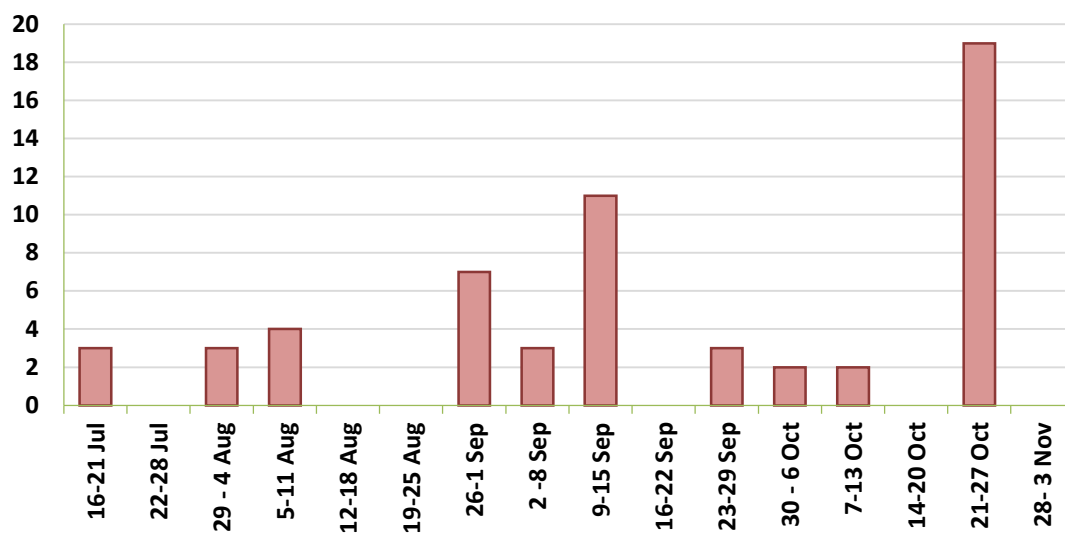


Figure 17. Counts of Great Knot at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

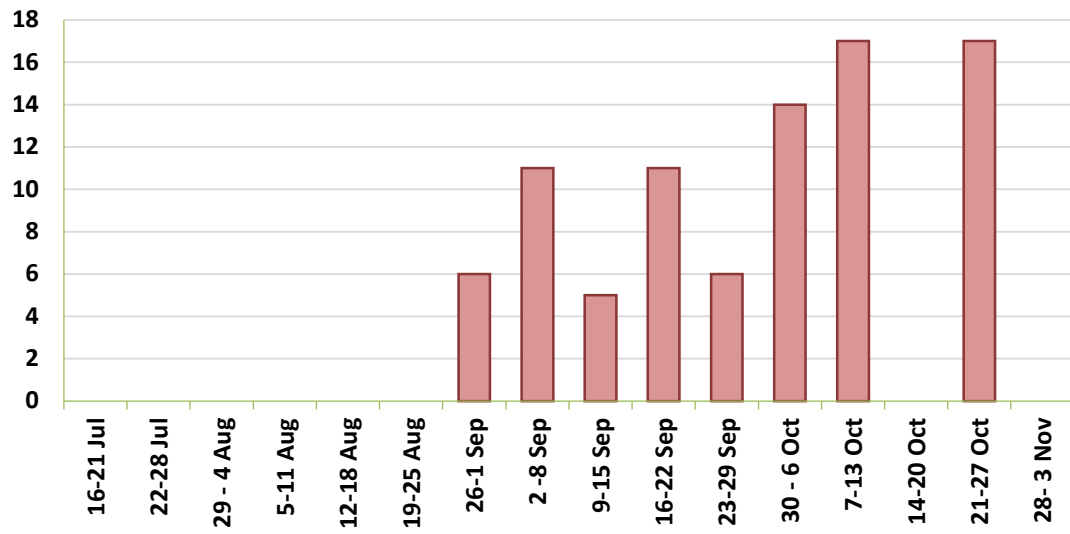


Figure 18. Counts of Red Knot at Mai Po Inner Deep Bay Ramsar Site, autumn 2016

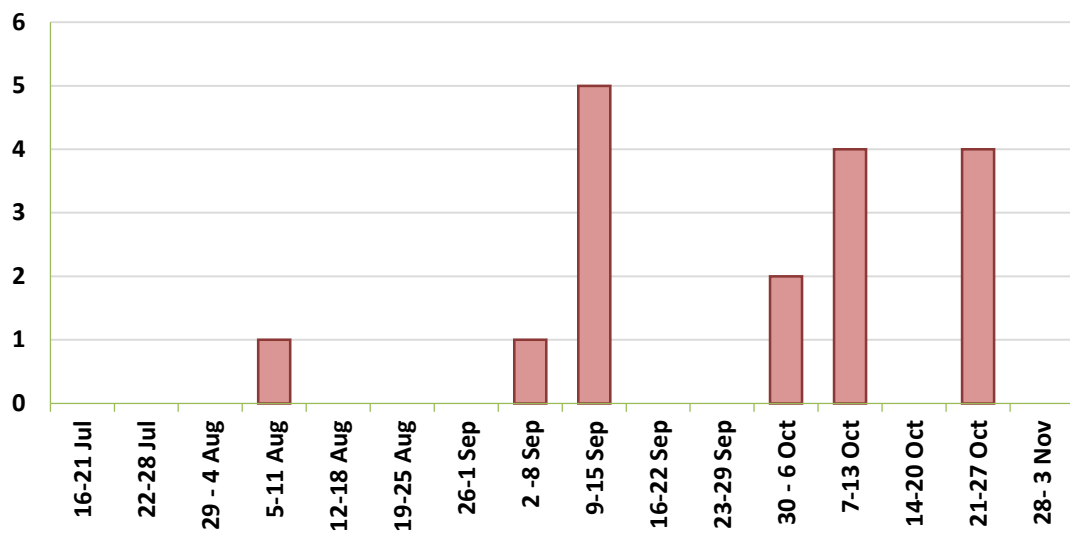


Figure 19. Counts of Broad-billed Sandpiper at Mai Po Inner Deep Bay
Ramsar Site, autumn 2016

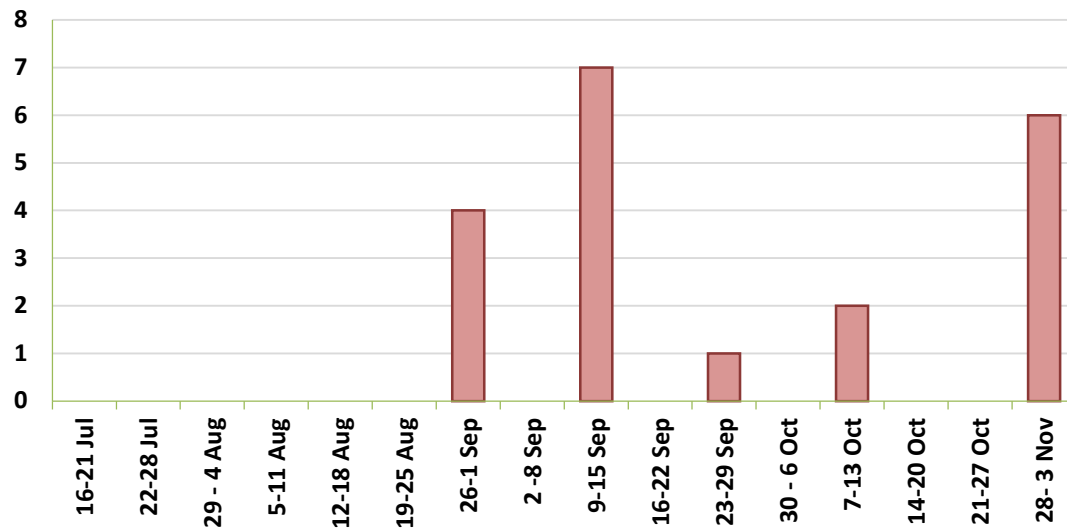


Figure 20. Total number of shorebirds recorded at Mai Po Inner Deep Bay, spring and summer
2017

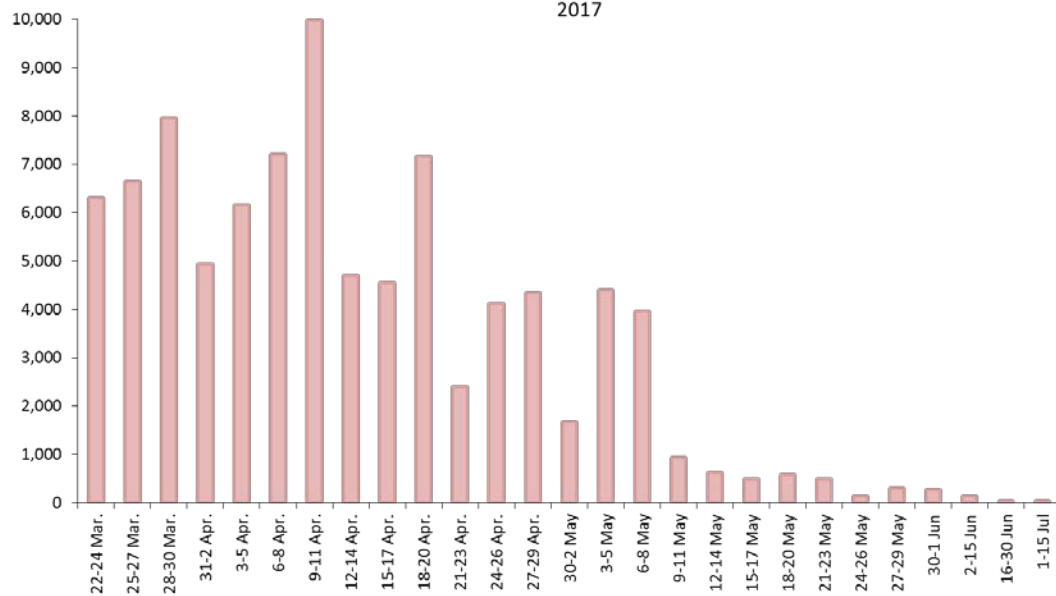


Figure 21. Counts of Pacific Golden Plover at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

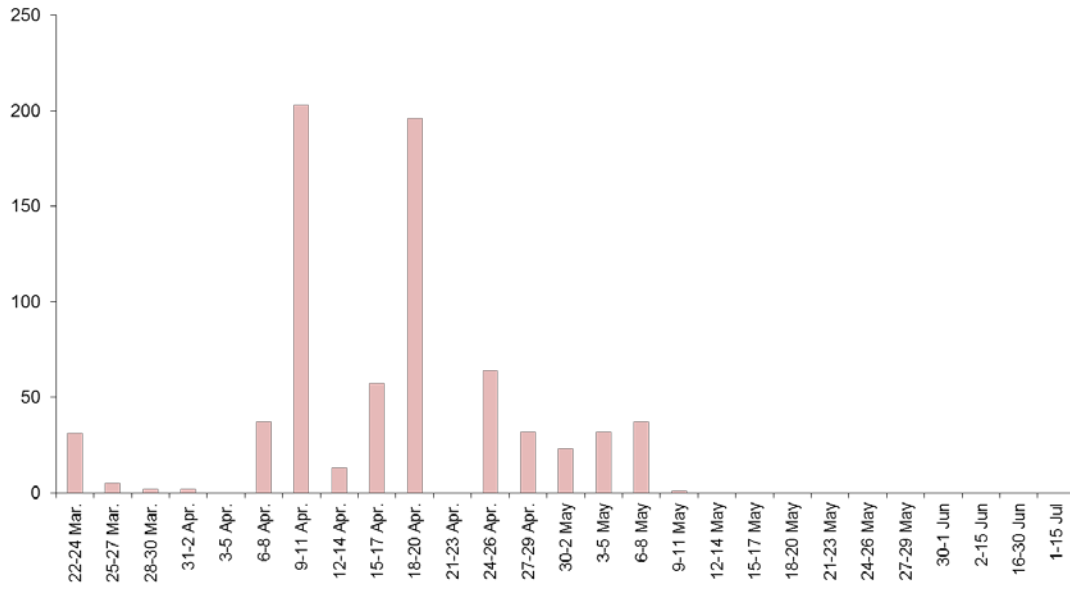


Figure 22. Counts of Lesser Sandplover at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

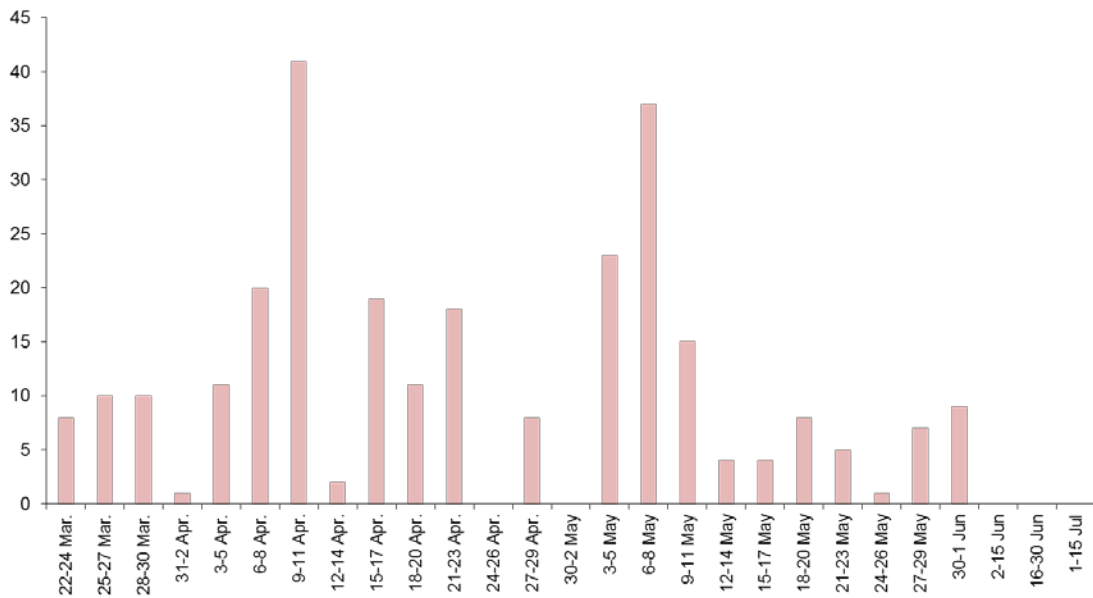


Figure 23. Counts of Greater Sandplover at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

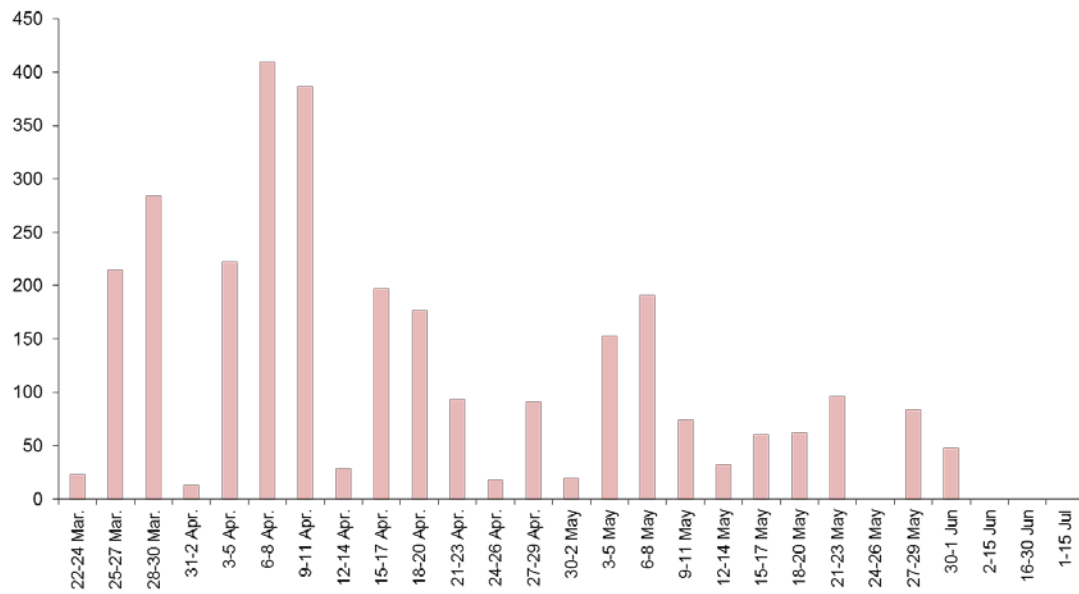


Figure 24. Counts of Black-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

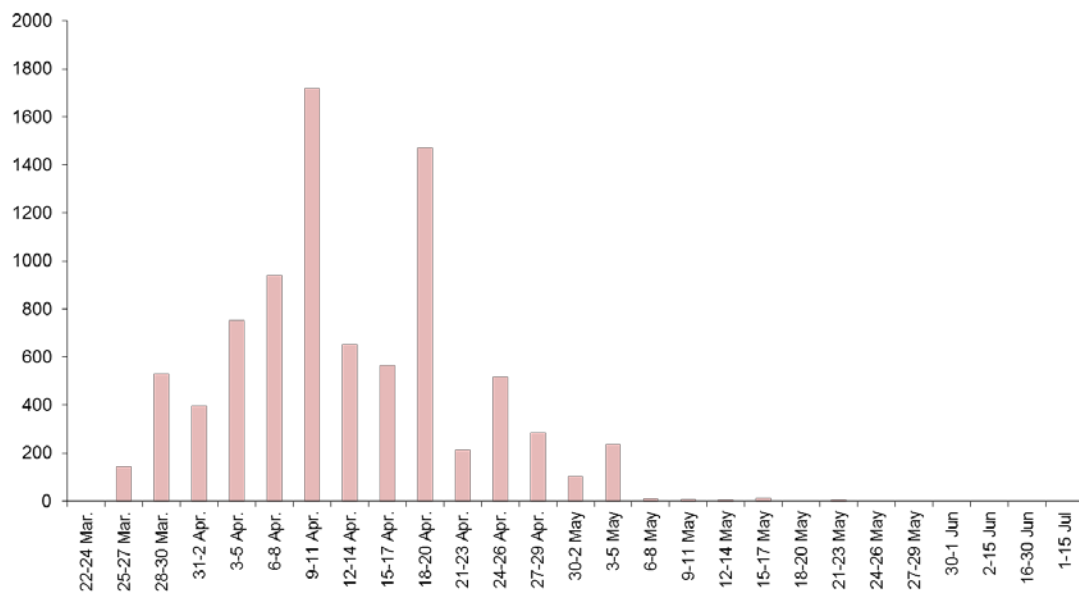


Figure 25. Counts of Spotted Redshank at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

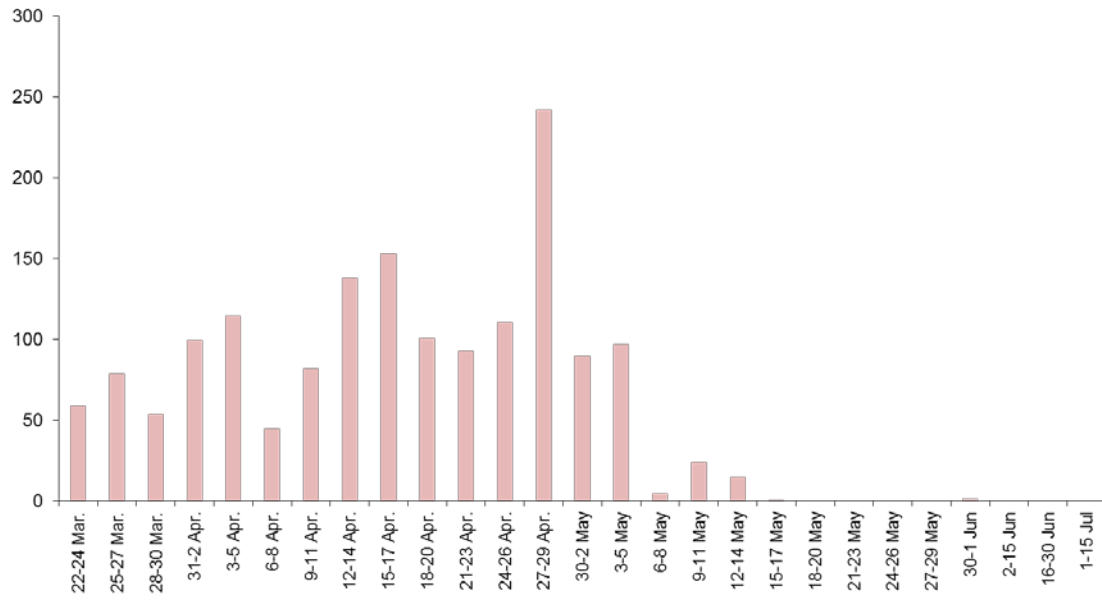


Figure 26. Counts of Common Redshank at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

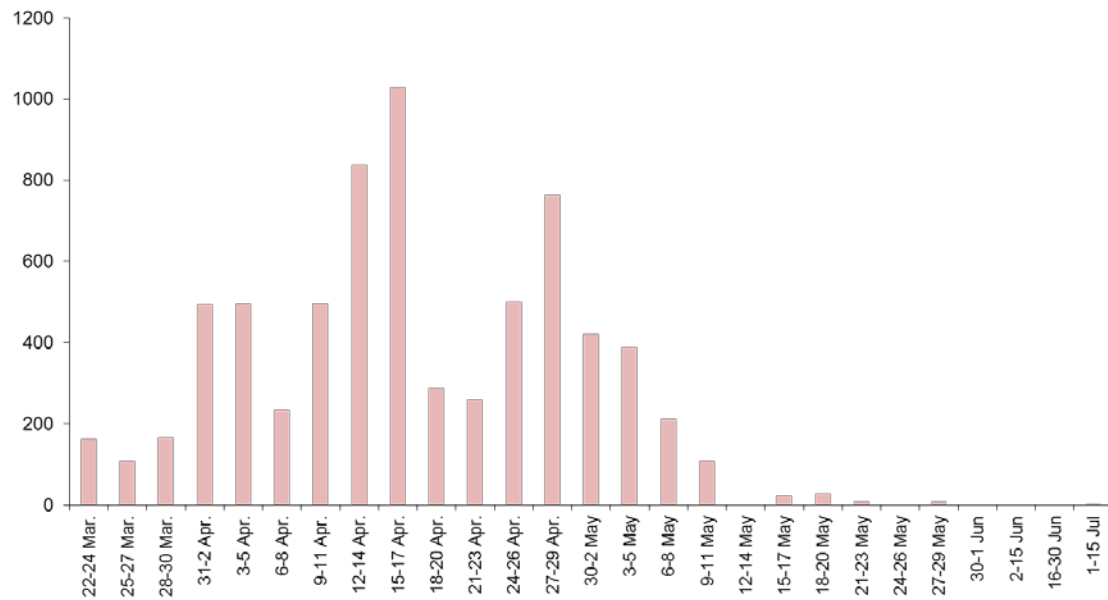


Figure 27. Counts of Marsh Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

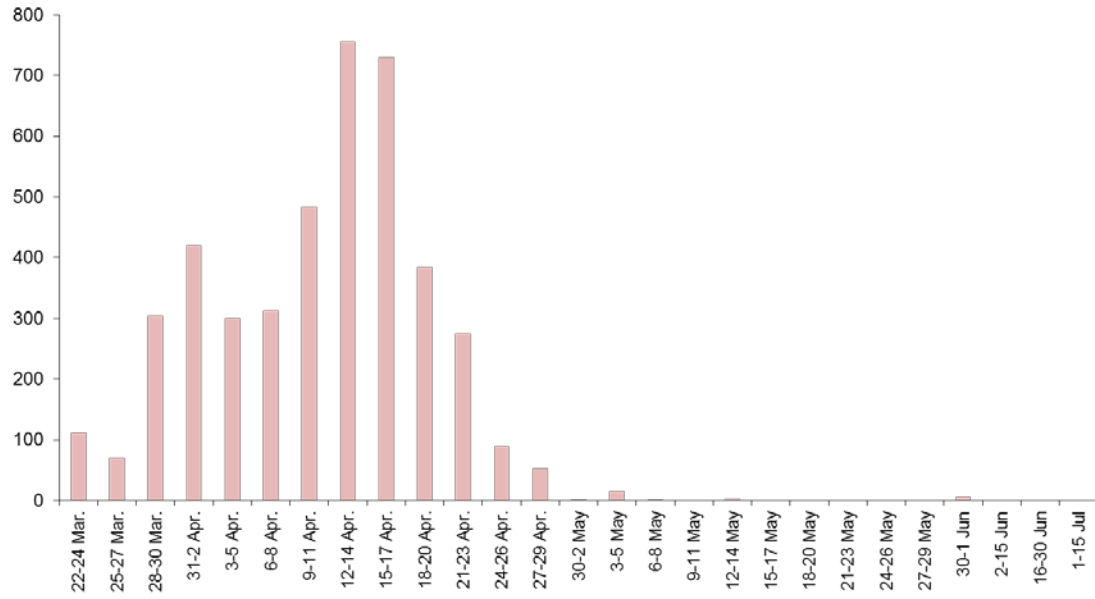


Figure 28. Counts of Common Greenshank at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

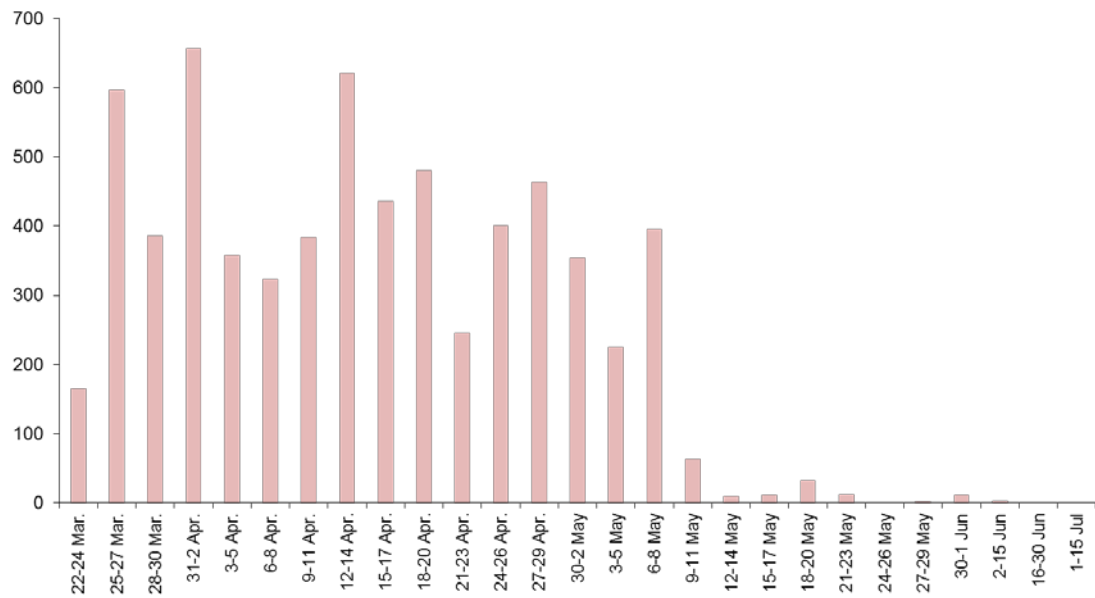


Figure 29. Counts of Terek Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

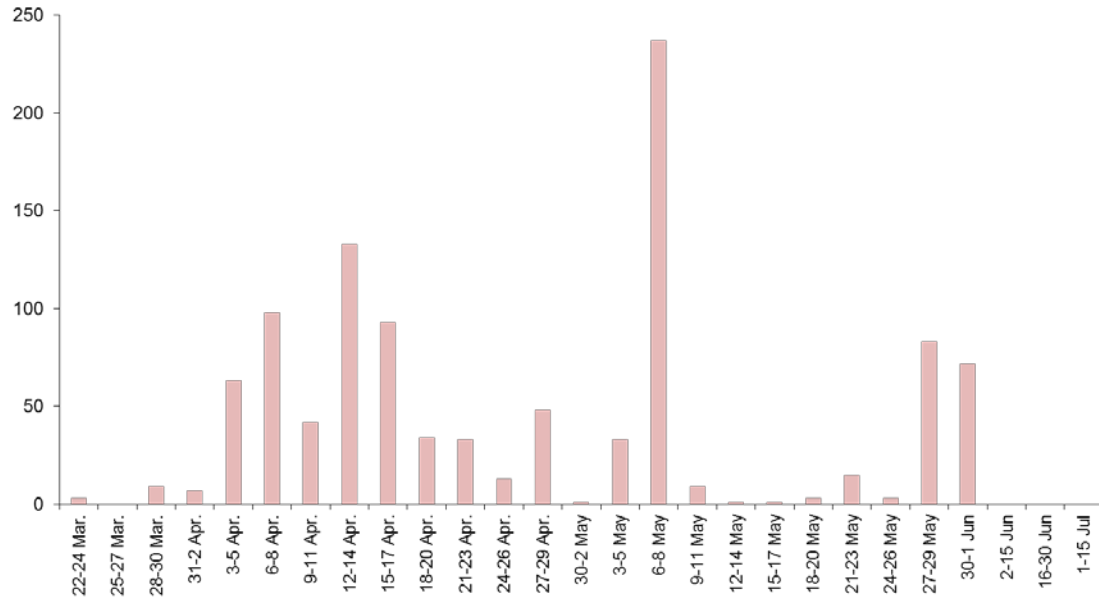


Figure 30. Counts of Grey-tailed Tattler at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

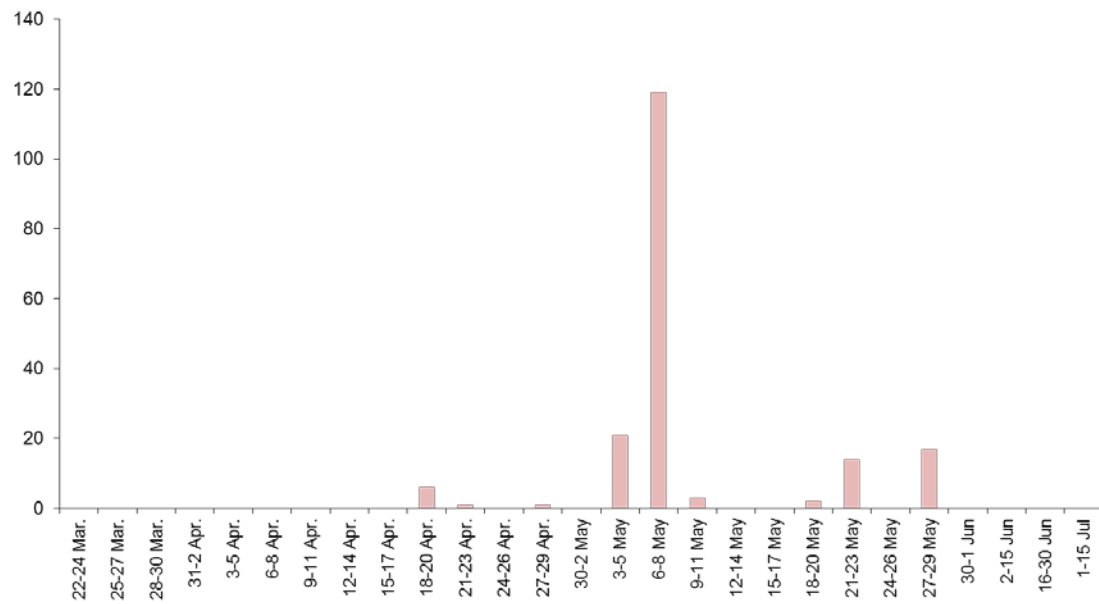


Figure 31. Counts of Ruddy Turnstone at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

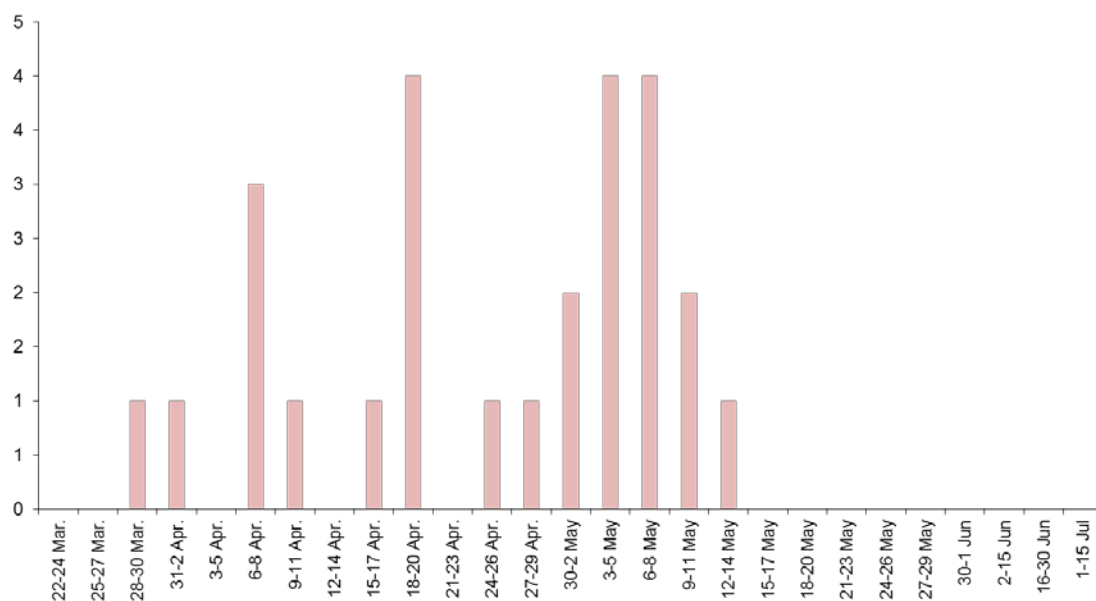


Figure 32. Counts of Asian Dowitcher at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

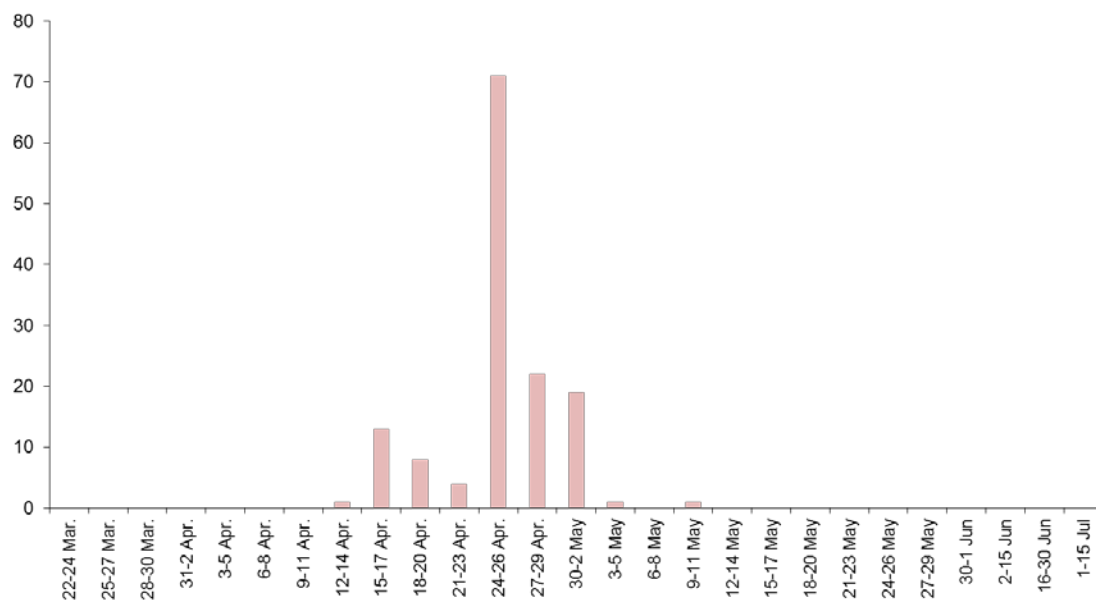


Figure 33. Counts of Red Knot at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

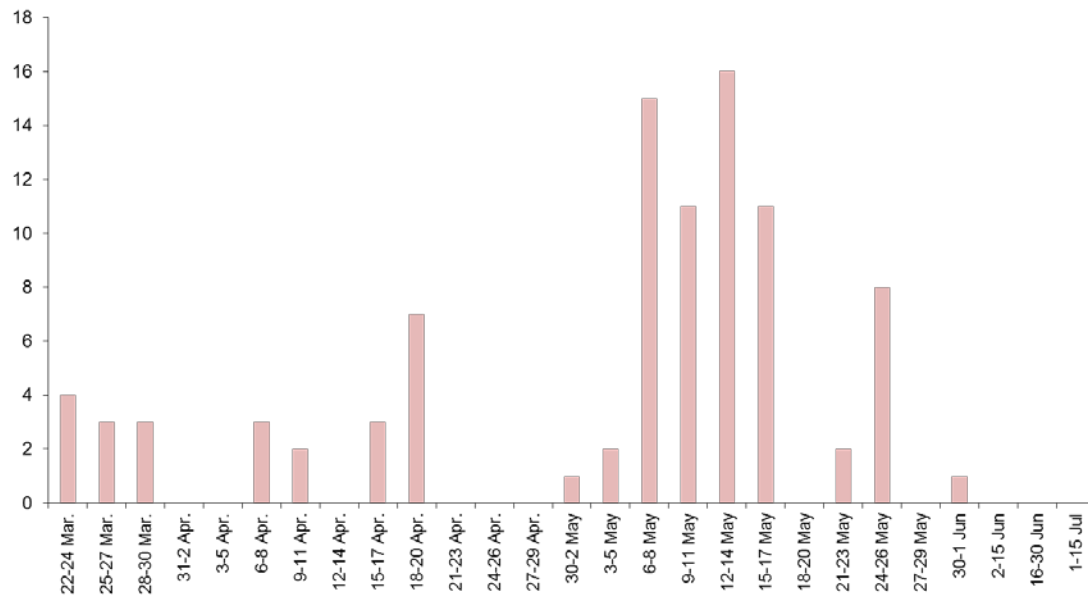


Figure 34. Counts of Great Knot at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

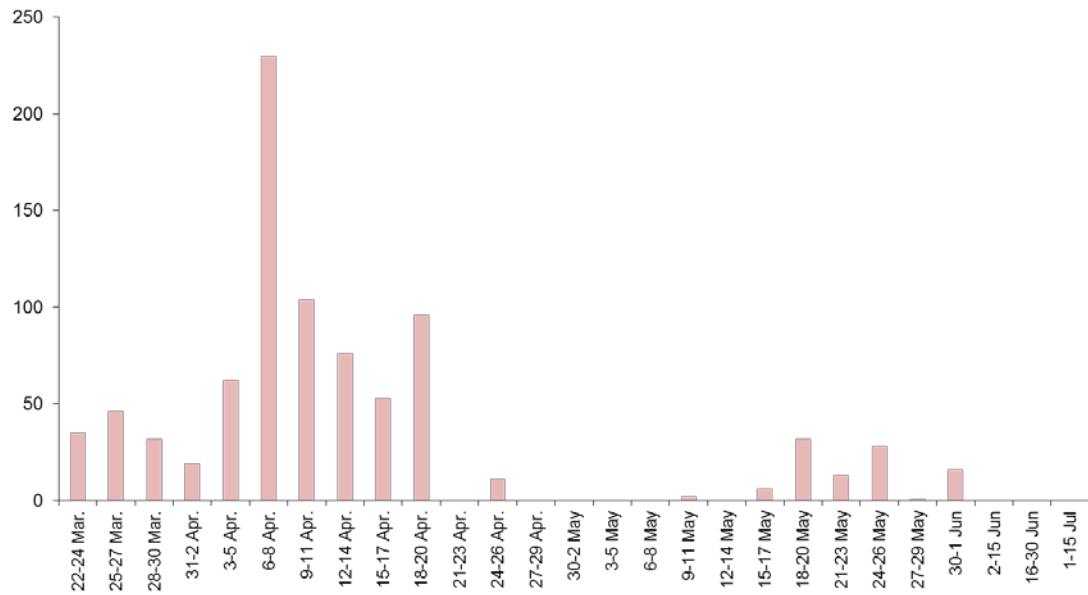


Figure 35. Counts of Red-necked Stint at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

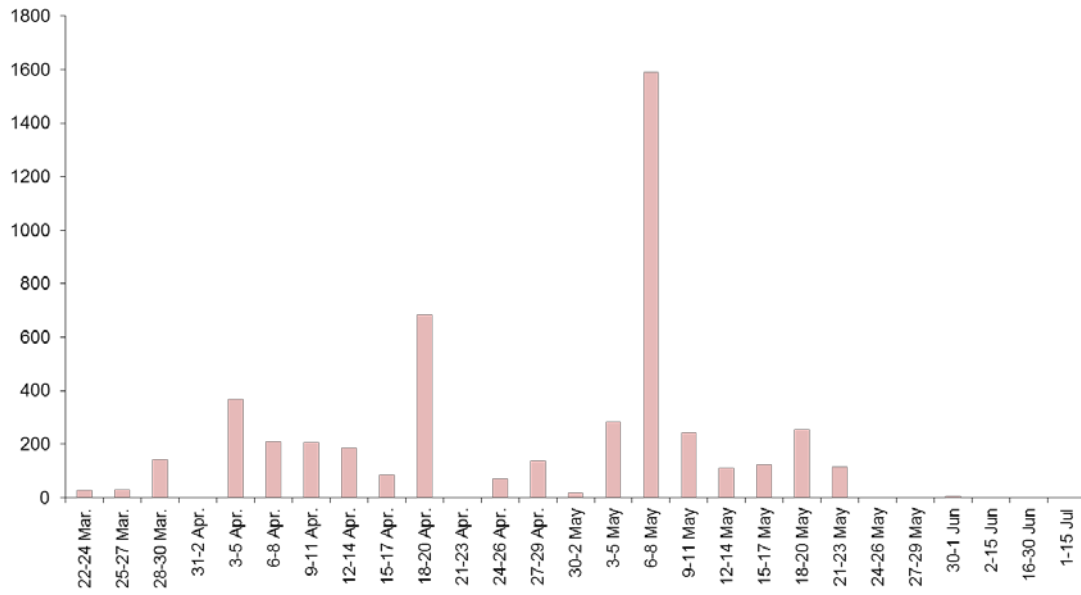


Figure 36. Counts of Sharp-tailed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

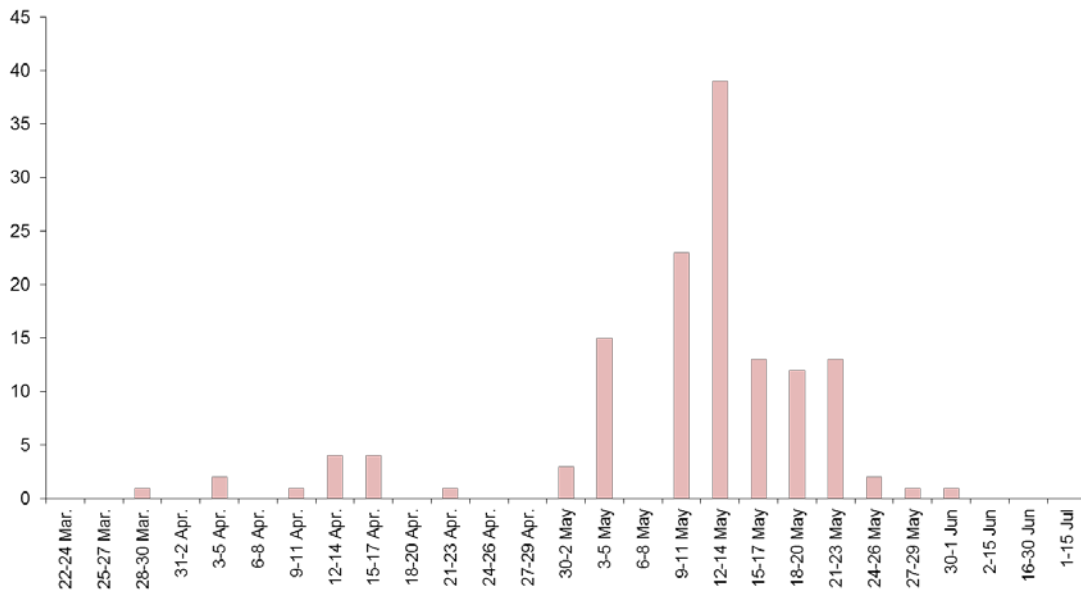


Figure 37. Counts of Curlew Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017

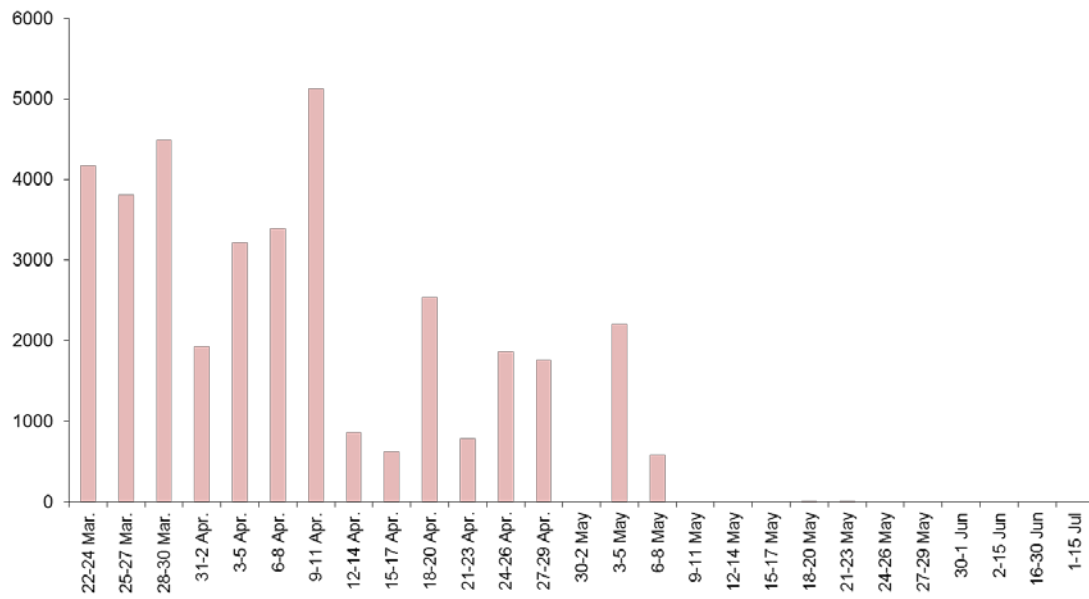
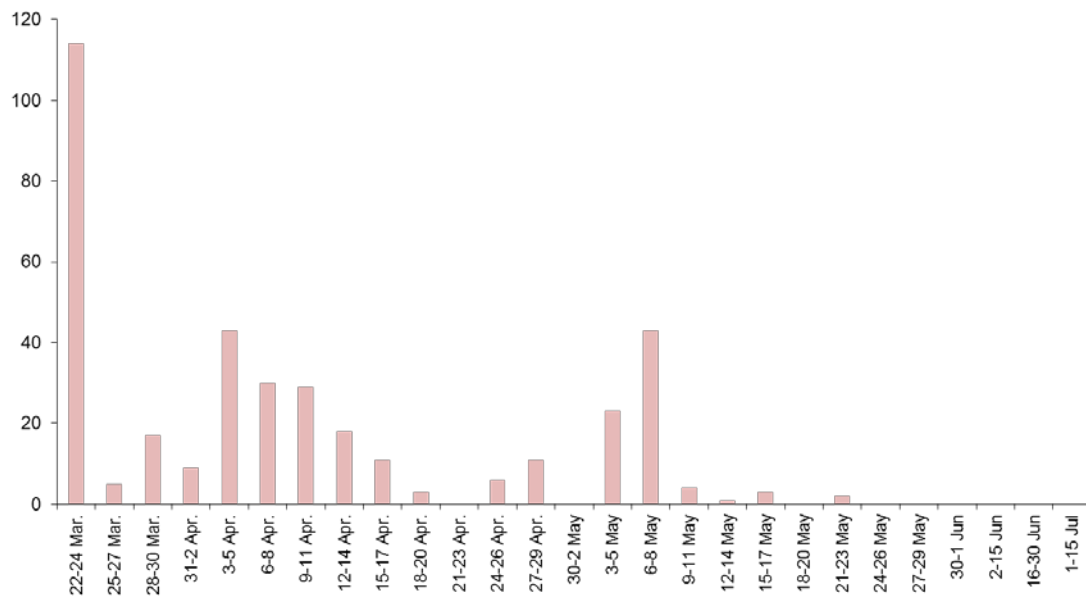


Figure 38. Counts of Broad-billed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring and summer 2017





Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

Appendix 5

Sighting records of leg-flagged shorebirds in 2016-17.



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
Department

Sighting records of leg-flagged shorebirds from autumn 2016 to spring 2017.

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
26-Jul-16	Shorebird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
26-Jul-16	Shorebird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
30-Jul-16	Casual observation from bird watcher	Greater Sand Plover	Not noted	White	Yellow			Hong Kong, China
30-Jul-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
5-Aug-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Greater Sand Plover	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Lesser Sand Plover	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Whimbrel	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Greater Sand Plover	Not noted	White	Yellow			Hong Kong, China
8-Aug-16	Casual observation from bird watcher	Grey-tailed Tattler	Not noted	Yellow				N Western Australia
12-Aug-16	Casual observation from bird watcher	Greater Sand Plover	Not noted	Yellow				N Western Australia
17-Aug-16	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
17-Aug-16	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
17-Aug-16	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
17-Aug-16	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
22-Aug-16	Casual observation from bird watcher	Eurasian Curlew	Not noted	White				Unknown
4-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
4-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
4-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
5-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
5-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
5-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
5-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
5-Oct-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
30-Nov-16	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
3-Dec-16	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
7-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-Dec-16	Casual observation from bird watcher	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
7-Dec-16	Casual observation from bird watcher	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
7-Dec-16	Casual observation from bird watcher	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
12-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
12-Dec-16	Casual observation from bird watcher	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
13-Dec-16	Casual observation from bird watcher	Dunlin	Not noted	White	Yellow			Hong Kong, China
22-Dec-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
22-Dec-16	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
24-Dec-16	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
24-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Dec-16	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
24-Dec-16	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
27-Dec-16	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
8-Jan-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
9-Jan-17	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
12-Jan-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
14-Jan-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
14-Jan-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
14-Jan-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
14-Jan-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
15-Jan-17	Waterbird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
15-Jan-17	Waterbird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
15-Jan-17	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
1-Feb-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
1-Feb-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
2-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
2-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
2-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
2-Feb-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
13-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
13-Feb-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-Feb-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
15-Feb-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
17-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
17-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
17-Feb-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
28-Feb-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
13-Mar-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
13-Mar-17	Casual observation from bird watcher	Eurasian Curlew	Not noted	White	Yellow			Hong Kong, China
13-Mar-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
14-Mar-17	Casual observation from bird watcher	Dunlin	Not noted	White	Yellow			Hong Kong, China
16-Mar-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
16-Mar-17	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
16-Mar-17	Casual observation from bird watcher	Red-necked Stint	Not noted	Blue	Yellow			Bohai Bay, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
19-Mar-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
19-Mar-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
19-Mar-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
22-Mar-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
22-Mar-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
22-Mar-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Orange				Victoria, Australia
22-Mar-17	Casual observation from bird watcher	Greater Sand Plover	Not noted	Orange				Victoria, Australia
24-Mar-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Mar-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
25-Mar-17	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
25-Mar-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Grey Plover	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Red-necked Stint	25	Blue	Yellow			Bohai Bay, China
28-Mar-17	Shorebird Count	Greater Sand plover	0			White	Blue	Taiwan
28-Mar-17	Shorebird Count	Red-necked Stint	25	Black	Green			Inner Gulf of Thailand, Thailand
28-Mar-17	Shorebird Count	Common Greenshank	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Common Greenshank	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Common Redshank	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Common Redshank	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Grey Plover	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Curlew Sandpiper	25	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Grey Plover	0	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Shorebird Count	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Casual observation from bird watcher	Kentish Plover	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
28-Mar-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
28-Mar-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
31-Mar-17	Shorebird Count	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
31-Mar-17	Shorebird Count	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
31-Mar-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
31-Mar-17	Shorebird Count	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
31-Mar-17	Shorebird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Shorebird Count	Great Knot	50	Yellow				N Western Australia
1-Apr-17	Shorebird Count	Great Knot	100	Yellow				N Western Australia
1-Apr-17	Shorebird Count	Great Knot	Not noted	Yellow				N Western Australia
1-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Shorebird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Spotted Redshank	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Red-necked Stint	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
1-Apr-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
2-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
2-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
2-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
2-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
2-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Red				South Island, New Zealand
3-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
3-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
3-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
3-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
3-Apr-17	Casual observation from bird watcher	Red-necked Stint	Not noted	Blue	Yellow			Bohai Bay, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
3-Apr-17	Casual observation from bird watcher	Great Knot	Not noted	Blue	Yellow			Bohai Bay, China
3-Apr-17	Casual observation from bird watcher	Great Knot	Not noted	Yellow				N Western Australia
3-Apr-17	Casual observation from bird watcher	Greater Sand Plover	Not noted	Yellow				N Western Australia
3-Apr-17	Casual observation from bird watcher	Terek Sandpiper	Not noted	Yellow				N Western Australia
3-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Orange				Victoria, Australia
4-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
4-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
4-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
5-Apr-17	Casual observation from bird watcher	Red-necked Stint	25	Black	White			Chongming Island, China
6-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
6-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	25	Orange				Victoria, Australia
6-Apr-17	Casual observation from bird watcher	Red-necked Stint	25	Yellow				N Western Australia
7-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
7-Apr-17	Casual observation from bird watcher	Great Knot	75	Yellow				N Western Australia
7-Apr-17	Casual observation from bird watcher	Great Knot	75	Yellow				N Western Australia
7-Apr-17	Casual observation from bird watcher	Terek Sandpiper	Not noted	Yellow				N Western Australia
8-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Red				South Island, New Zealand
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Red				South Island, New Zealand
8-Apr-17	Casual observation from bird watcher	Great Knot	100	Yellow				N Western Australia

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
8-Apr-17	Casual observation from bird watcher	Great Knot	Not noted	Yellow				N Western Australia
8-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	100	Red				South Island, New Zealand
10-Apr-17	Shorebird Count	Curlew Sandpiper	75	Blue	Yellow			Bohai Bay, China
10-Apr-17	Shorebird Count	Great Knot	100	Yellow				N Western Australia
10-Apr-17	Shorebird Count	Black-tailed Godwit	0	White	Yellow			Hong Kong, China
10-Apr-17	Shorebird Count	Curlew Sandpiper	100	Red				South Island, New Zealand
10-Apr-17	Shorebird Count	Curlew Sandpiper	50	Red				South Island, New Zealand
10-Apr-17	Shorebird Count	Curlew Sandpiper	75	White	Yellow			Hong Kong, China
10-Apr-17	Shorebird Count	Broad-billed Sandpiper	75	Black	White			Chongming Island, China
10-Apr-17	Shorebird Count	Red-necked Stint	50	White	Yellow			Hong Kong, China
10-Apr-17	Casual observation from bird watcher	Great Knot	Not noted	Yellow				N Western Australia
11-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
11-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
11-Apr-17	Casual observation from bird watcher	Red-necked Stint	Not noted	White	Yellow			Hong Kong, China
11-Apr-17	Casual observation from bird watcher	Terek Sandpiper	Not noted	Yellow				N Western Australia
12-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
12-Apr-17	Casual observation from bird watcher	Board-billed Sandpiper	Not noted	White	Yellow			Hong Kong, China
12-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	100	Blue	Yellow			Bohai Bay, China
12-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Yellow				N Western Australia
12-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Yellow				N Western Australia
12-Apr-17	Casual observation from bird watcher	Red-necked Stint	0	Black	White			Chongming Island, China
13-Apr-17	Shorebird Count	Terek Sandpiper	Not noted	Yellow				N Western Australia
13-Apr-17	Shorebird Count	Common Redshank	Not noted	White	Yellow			Hong Kong, China
13-Apr-17	Shorebird Count	Red-necked Stint	0	Black	White			Chongming Island, China
13-Apr-17	Shorebird Count	Red-necked Stint	25	Yellow				N Western Australia
14-Apr-17	Casual observation from bird watcher	Red-necked Stint	50	Black	Green			Inner Gulf of Thailand, Thailand
14-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	75	Yellow				N Western Australia
15-Apr-17	Shorebird Count	Terek Sandpiper	100	Yellow				N Western Australia
15-Apr-17	Shorebird Count	Red-necked Stint	25	Orange				Victoria, Australia
15-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
15-Apr-17	Casual observation from bird watcher	Terek Sandpiper	100	Yellow				N Western Australia
15-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Yellow				N Western Australia

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
16-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
18-Apr-17	Casual observation from bird watcher	Red-necked Stint	Not noted	Yellow				N Western Australia
19-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
19-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
19-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
19-Apr-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
23-Apr-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
23-Apr-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
23-Apr-17	Casual observation from bird watcher	Red-necked Stint	Not noted	Black	Green			Inner Gulf of Thailand, Thailand
23-Apr-17	Casual observation from bird watcher	Terek Sandpiper	Not noted	Green	Blue			Jiangsu, China
23-Apr-17	Casual observation from bird watcher	Ruddy Turnstone	Not noted	Yellow				N Western Australia
23-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
23-Apr-17	Casual observation from bird watcher	Red-necked Stint	75	Black	Green			Inner Gulf of Thailand, Thailand
23-Apr-17	Casual observation from bird watcher	Terek Sandpiper	100	Green	Blue			Jiangsu, China
23-Apr-17	Casual observation from bird watcher	Grey-tailed Tattler	100	Yellow				N Western Australia
23-Apr-17	Casual observation from bird watcher	Terek Sandpiper	100	Yellow				N Western Australia
24-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
24-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	50	Yellow				N Western Australia
25-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
25-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Black-tailed Godwit	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Common Redshank	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Marsh Sandpiper	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Common Greenshank	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
25-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	Yellow				N Western Australia
25-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	75	Yellow				N Western Australia
25-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	100	Yellow				N Western Australia
25-Apr-17	Casual observation from bird watcher	Ruddy Turnstone	100	Yellow				N Western Australia
25-Apr-17	Casual observation from bird watcher	Curlew Sandpiper	100	Red				South Island, New Zealand
29-Apr-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
1-May-17	Casual observation from bird watcher	Ruddy Turnstone	Not noted	Yellow				N Western Australia
3-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
3-May-17	Shorebird Count	Greater Sand Plover	Not noted	White	Yellow			Hong Kong, China
3-May-17	Shorebird Count	Ruddy Turnstone	Not noted	Yellow				N Western Australia
5-May-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
5-May-17	Casual observation from bird watcher	Spotted Redshank	Not noted	White	Yellow			Hong Kong, China
5-May-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
5-May-17	Casual observation from bird watcher	Terek Sandpiper	Not noted	White	Yellow			Hong Kong, China
5-May-17	Casual observation from bird watcher	Pied Avocet	Not noted	White	Yellow			Hong Kong, China
5-May-17	Casual observation from bird watcher	Red-necked Stint	Not noted	orange	Yellow			South Australia, Australia
6-May-17	Casual observation from bird watcher	Curlew Sandpiper	100	Orange				Victoria, Australia
7-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China

Date	Source	Species	Breeding Plumage	Colour on Right Leg		Colour on Left Leg		Ringed Location
				Upper	Lower	Upper	Lower	
7-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
7-May-17	Shorebird Count	Grey-tailed Tattler	Not noted	Yellow				N Western Australia
7-May-17	Shorebird Count	Grey-tailed Tattler	Not noted	Black	White			Chongming Island, China
7-May-17	Shorebird Count	Ruddy Turnstone	Not noted	Yellow				N Western Australia
7-May-17	Shorebird Count	Red-necked Stint	Not noted	Yellow				N Western Australia
7-May-17	Shorebird Count	Red-necked Stint	Not noted	Orange				Victoria, Australia
7-May-17	Casual observation from bird watcher	Curlew Sandpiper	Not noted	White	Yellow			Hong Kong, China
7-May-17	Casual observation from bird watcher	Grey-tailed Tattler	Not noted	Black	White			Chongming Island, China
7-May-17	Casual observation from bird watcher	Grey-tailed Tattler	Not noted	Yellow				N Western Australia
7-May-17	Casual observation from bird watcher	Red-necked Stint	50	Orange				Victoria, Australia
7-May-17	Casual observation from bird watcher	Red-necked Stint	75	Orange	Yellow			South Australia, Australia
7-May-17	Casual observation from bird watcher	Red-necked Stint	25	Yellow				N Western Australia
7-May-17	Casual observation from bird watcher	Red-necked Stint	Not noted	Yellow				N Western Australia
9-May-17	Casual observation from bird watcher	Red-necked Stint	50	Orange				Victoria, Australia
9-May-17	Casual observation from bird watcher	Red-necked Stint	75	Orange				Victoria, Australia
9-May-17	Casual observation from bird watcher	Red-necked Stint	50	Orange				Victoria, Australia
9-May-17	Casual observation from bird watcher	Ruddy Turnstone	100	Yellow				N Western Australia
10-May-17	Shorebird Count	Red-necked Stint	Not noted	Yellow				N Western Australia
10-May-17	Shorebird Count	Ruddy Turnstone	Not noted	Yellow				N Western Australia
10-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
10-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
10-May-17	Shorebird Count	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-May-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-May-17	Casual observation from bird watcher	Grey Plover	Not noted	White	Yellow			Hong Kong, China
13-May-17	Casual observation from bird watcher	Red-necked Stint	100	Orange				Victoria, Australia
13-May-17	Casual observation from bird watcher	Curlew Sandpiper	100	Orange				Victoria, Australia
13-May-17	Casual observation from bird watcher	Red Knot	100	Yellow				N Western Australia
13-May-17	Casual observation from bird watcher	Red Knot	100	Yellow				N Western Australia
13-May-17	Casual observation from bird watcher	Red-necked Stint	50	Orange				Victoria, Australia

Mai Po Inner Deep Bay Ramsar Site Waterbird Monitoring Programme 2016-17

Shorebird Monitoring Report

Appendix 6

Leg-flagged shorebirds with resighting records in at least four years from 2011 to 2017.



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation
Department

Leg-flagged shorebirds with resighting records in at least four years from 2011 to 2017.

Species	Engraved Number	Years with Resighting
Black-tailed Godwit	B0	2011-2016
Black-tailed Godwit	B3	2011-2016
Black-tailed Godwit	B7	2011-2016
Black-tailed Godwit	B9	2011-2016
Black-tailed Godwit	H6	2012-2016
Black-tailed Godwit	K9	2012-2016
Black-tailed Godwit	L0	2012-2017
Black-tailed Godwit	N1	2012-2015
Black-tailed Godwit	N8	2013-2017
Black-tailed Godwit	P1	2013-2017
Common Greenshank	A6	2012-2016
Common Greenshank	C4	2011-2014
Common Greenshank	E1	2011-2015
Common Greenshank	E7	2011-2015
Common Redshank	A4	2011-2014
Common Redshank	C0	2011-2016
Common Redshank	D2	2012-2016
Common Redshank	D4	2012-2016
Common Redshank	E1	2012-2017
Common Redshank	E8	2012-2016
Common Redshank	H2	2013-2016
Common Redshank	P1	2012-2016
Common Redshank	P2	2012-2016
Common Redshank	R5	2012-2016
Common Redshank	R6	2012-2017
Common Redshank	R7	2012-2015
Common Redshank	R8	2011-2016
Common Redshank	S2	2012-2016
Common Redshank	S3	2012-2016
Common Redshank	T0	2012-2016
Common Redshank	T1	2013-2017
Common Redshank	V0	2012-2016
Curlew Sandpiper	P1	2013-2016
Curlew Sandpiper	V6	2012-2016
Eurasian Curlew	A1	2013-2017
Eurasian Curlew	A2	2012-2017
Eurasian Curlew	A6	2013-2017

Eurasian Curlew	A7	2012-2017
Eurasian Curlew	A9	2013-2017
Great Knot	L3	2012-2016
Greater Sand Plover	J6	2012-2016
Grey Plover	C2	2011-2016
Grey Plover	H5	2012-2016
Grey Plover	J2	2012-2016
Grey Plover	S7	2012-2016
Marsh Sandpiper	B1	2012-2017
Marsh Sandpiper	N2	2011-2016
Marsh Sandpiper	R1	2011-2014
Pacific Golden Plover	H8	2012-2016
Pied Avocet	J4	2012-2017