

Tender Reference No. AFCD/SQ/22/11

**Mai Po Inner Deep Bay Ramsar Site
Waterbird Monitoring Programme
2011 - 2012**

Shorebird Monitoring Report



Submitted by
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Waterbird Monitoring at the Mai Po Inner Deep Bay Ramsar Site

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TABLE OF CONTENTS

REPORT

| | |
|----------------------------------|----|
| 1. Introduction..... | 8 |
| 2. Methodology | 8 |
| 3. Results and discussion..... | 9 |
| Autumn 2011 | |
| Winter 2011-2012 | |
| Spring 2012 | |
| Summer 2012 | |
| Aggregate numbers recorded | |
| Regionally important populations | |
| Globally threatened species | |
| Flagged shorebirds sightings | |
| Other observations | |
| 4. Acknowledgements..... | 19 |
| 5. References..... | 19 |

Tables

Table 1. Peak counts of some shorebird species with a declining trend in spring of recent years

Table 2. The minimum number of shorebirds estimated to have utilized the Deep Bay area during the 12-month period from July 2011 to June 2012

Table 3. Counts of shorebirds recorded at the Deep Bay area during July 2011 to June 2012 expressed in terms of flyway/regional population

Map

Map 1. Mai Po Nature Reserve

APPENDIX 1

Counts of shorebirds in the Mai Po Inner Deep Bay Ramsar Site in autumn 2011.

APPENDIX 2

Counts of shorebirds in the Mai Po Inner Deep Bay Ramsar Site in winter 2011-12.

APPENDIX 3

Counts of shorebirds in the Mai Po Inner Deep Bay Ramsar Site in spring 2012.

APPENDIX 4

- Figure 1. Total number of shorebirds recorded at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 2. Counts of Black-winged Stilt at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 3. Counts of Pacific Golden Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 4. Counts of Kentish Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 5. Counts of Grey Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 6. Counts of Lesser Sand Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 7. Counts of Greater Sand Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 8. Counts of Black-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 9. Counts of Bar-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 10. Counts of Whimbrel at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 11. Counts of Eurasian Curlew at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 12. Counts of Spotted Redshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 13. Counts of Common Redshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 14. Counts of Marsh Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 15. Counts of Common Greenshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 16. Counts of Wood Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 17. Counts of Great Knot at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 18. Counts of Red Knot at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 19. Counts of Broad-billed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2011.
- Figure 20. Total number of shorebirds recorded at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 21. Counts of Pacific Golden Plover at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 22. Counts of Lesser Sand Plover at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 23. Counts of Greater Sand Plover at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 24. Counts of Black-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 25. Counts of Spotted Redshank at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 26. Counts of Common Redshank at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 27. Counts of Marsh Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 28. Counts of Common Greenshank at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 29. Counts of Terek Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 30. Counts of Grey-tailed Tattler at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 31. Counts of Ruddy Turnstone at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 32. Counts of Asian Dowitcher at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 33. Counts of Red Knot at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 34. Counts of Great Knot at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 35. Counts of Red-necked Stint at Mai Po Inner Deep Bay Ramsar Site, spring 2012.
- Figure 36. Counts of Sharp-tailed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012.

Figure 37. Counts of Curlew Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012.

Figure 38. Counts of Broad-billed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012.

APPENDIX 5

Sighting records of leg-flagged shorebirds in 2011-12.

Shorebird Monitoring at the Mai Po Marshes and Inner Deep Bay

2011-12 Report

Report



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

MAI PO INNER DEEP BAY RAMSAR SITE WATERBIRD MONITORING PROGRAMME

Programme 2011/12

Shorebird Monitoring

July 2011 - June 2012

Shorebird Monitoring: 2011-12 Report

Introduction

A systematic, long-term monitoring programme of waterbirds in the Mai Po Inner Deep Bay Ramsar Site has 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 subvention from the Agriculture, Fisheries and Conservation Department (AFCD) from December 1998 to March 2004. Starting from April 2004, the Waterbird Monitoring Programme was arranged under service contracts funded by AFCD. This report focuses on the results of the Shorebird Counts during migratory seasons from July 2011 to June 2012 under the tender reference number AFCD/SQ/22/11.

Methodology

Migratory shorebirds visit the Deep Bay area during autumn and spring, and some of them stay here throughout the winter. This study aimed at monitoring the population of migratory shorebirds in the Mai Po Inner Deep Bay Ramsar Site throughout the year. The Shorebird Counts were more frequently conducted during the peak periods of passage migration (that is, from late March to late May and from the second half of July to late October). In winter from mid November to mid February, the Shorebird Count was carried out once a month and the results obtained in the monthly Waterbird Counts for the same period were also used in this report. Fewer counts were conducted in summer. In short, the Shorebird Counts under this Shorebird Monitoring Programme were scheduled as follows:

- Autumn: from 16 July 2011 to 3 November 2011 - once a week;
- Winter: from mid November 2011 to mid February 2012 - once a month;
- Spring: from 22 March 2012 to 1 June 2012 - once every three days;

- Summer: from 2 June 2012 to 15 July 2012 – once every two weeks.

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

- Birds were counted from the boardwalk hide during rising tide, beginning at the tidal height of around 1.9m.
- During the high tide period, roosting birds were counted within the MPNR.
- During receding tide, birds were counted from the boardwalk hide until the time when the shorebirds were too far away from the observer making the count impossible.

The equipment used consisted of 8x or 10x binoculars and a telescope with wide angle or 20-60x zoom eyepieces. The Shorebird Counts were conducted by HKBWS accredited waterbird surveyors with experience in shorebird counting and identification. All shorebirds sighted in the survey sites were identified to their respective species. In the event that a shorebird carrying leg flag was observed, its details including the colour and position of the flag, species, age and/or the extent of breeding plumage would be recorded. These details would then be checked so as to figure out the shorebird's migration route or its origin.

Results and discussion

Results of the Shorebird Counts are presented in details in Appendices 1 to 3. The counts of selected species are plotted on graphs Figure 1 to 19 for Autumn 2011 and Figure 20 – 38 for Spring 2012 (Appendix 4). The order of the shorebird names follows the annotated checklist of birds of Hong Kong (Hong Kong Bird Watching Society 2012).

Autumn 2011

A total of 553 shorebirds were counted in mid July 2011; they increased to the first peak of 2,938 individuals (19 species) in mid-August 2011. The number of shorebirds reduced to 1,258 individuals (20 species) in early September 2011 and gradually increased to another peak of 3,531 individuals (18 species) on 24 October 2011 (Figure

1). The peak count recorded in autumn 2011 was 3,531 individuals of 18 species, a decrease in the abundance of 23% from the corresponding record of the previous year (i.e. 4,580 individuals, 17 species). The peak count in this autumn was comparatively low, even there were days with high tide on 11 and 30 September 2011. Besides, the water level in *gei wais* of MPNR was generally high in this autumn, providing fewer suitable sites for roosting shorebirds.

In autumn 2011, the aggregate peak count of all shorebird species was 4,212 individuals (38 species). The 3 most numerous shorebird species were Common Redshank *Tringa tetanus*, Common Greenshank *Tringa nebularia* and Marsh Sandpiper *Tringa stagnatilis*, with peak counts of 1,002, 1,349 and 1,173 individuals respectively. It was noted that the Common Redshank and Common Greenshank were autumn passage migrants in August, and the Marsh Sandpiper was winter visitors which arrived in late October.

Highlights of other shorebird species which were passage migrants recorded in autumn 2011 included Pacific Golden Plover *Pluvialis fulva* (Figure 3), Lesser Sand Plover *Charadrius mongolus* (Figure 6), Greater Sand Plover *C. leschenaultii* (Figure 7), Bar-tailed Godwit *Limosa lapponica* (Figure 9), Whimbrel *Numenius phaeopus* (Figure 10), Wood Sandpiper (Figure 16), Great Knot *Calidris tenuirostris* (Figure 17), Red Knot *Calidris canutus* (Figure 18) and Broad-billed Sandpiper *Limicola falcinellus* (Figure 19). The Pacific Golden Plover, Lesser Sand Plover and Red Knot were uncommon species with low numbers recorded in this autumn.

The arrival dates of wintering species identified during the Shorebird Counts were also recorded. Details of which are appended below:

- Black-tailed Godwit *Limosa limosa* – mid-August (Figure 8, c.f. late September 2010, mid-September 2009, early September 2008, September 2007, late September 2006, mid-September 2005 and 2004, early September 2003, late August 2002).
- Eurasian Curlew *Numenius arquata* – late August (Figure 11, c.f. late August 2010, mid-August 2009, September 2008, September 2007, September to early October 2006, mid-September 2005, 2004, 2003 and 2002)
- Spotted Redshank *Tringa erythropus* – late October (Figure 12, c.f. late October 2010, mid-October 2009, late October 2008, 2007 and 2006, mid October 2005, 2004, 2003, late September 2002).
- Marsh Sandpiper *Tringa stagnatilis* – early October (Figure 14, c.f. late September

2010, late September 2009, mid-September 2008, late September 2007, late September 2006, 2005, 2004, mid-September 2003, early September 2002).

Winter 2011-12

The Shorebird Counts were conducted in the mid-winter period from mid November 2011 to mid February 2012. To enhance accuracy, information collected in the monthly Waterbird Counts was also included in the analysis. In winter 2011-12, the aggregate peak count of all shorebird species was 28,290 birds of 32 species (Table 2). It showed a 22% increase as compared with the aggregate peak count of the previous winter (i.e. 23,100 birds of 28 species). The five most abundant shorebird species recorded in winter 2011-12 were Pied Avocet *Recurvirostra avosetta* (14,604 individuals), Dunlin *Calidris alpina* (3,100 individuals), Kentish Plover *Charadrius alexandrinus* (2,640 individuals), Marsh Sandpiper (2,237 individuals) and Eurasian Curlew (1,128 individuals). The tidal height in winter was lower and less predictable than in spring and autumn and hence, the results of the counts in winter tended to fluctuate. Nevertheless, with the increased counting efforts spent in this winter, more accurate information on the wintering population of the shorebird species was obtained.

Spring 2012

The number of shorebirds started at a relatively low number of 1,183 individuals (17 species) on 24 March 2012, which indicated that many of the passage shorebirds had not arrived the Deep Bay area. The number remained low for about one week until the first influx of shorebirds was recorded on 5 April 2012 at 8,329 individuals (28 species). The number of 8,329 individuals (28 species) was the peak count in this spring, which was 12% less than the previous year (c.f. 9,482 individuals of 27 species in spring 2011). Thereafter, the number of shorebirds decreased in the following ten days and the second influx at a total of 8,250 individuals (27 species) was recorded on 17 April 2012. This high number remained stable for two days and then started to drop in the next ten days. On 30 April 2012, the third but smaller influx with a total of 4,377 individuals (28 species) was recorded. In the course of May, the number of shorebirds gradually decreased from 2,320 individuals on 5 May 2012 to 890 individuals on 1 June 2012 (Figure 20).

Among all shorebird species recorded in this spring, in particular, in the first two influxes, Curlew Sandpipers *Calidris ferruginea* was the most abundant with 5,480 individuals recorded on 5 April 2012 and 6,147 individuals recorded on 17 April 2012 (Figure 37). The latter figure was the highest count among all species of passage

shorebirds recorded in this spring, an increase of 6% from the peak count of the previous year. Similar to the observations made in the previous year, a large number of Curlew Sandpipers were recorded in early spring and in the third week of April. In addition, two prominent peaks were recorded in early April and late April respectively, while the number of Curlew Sandpipers stayed low in-between these two peaks. This suggested that there were two different groups of passage Curlew Sandpipers passing through the Deep Bay area and the actual number of this shorebird species should be the sum of the two peak counts.

On the other hand, the number of several species of regular passage shorebirds recorded in this spring was smaller than that of the previous year (Table 1). Take for an example, there was considerable reduction in number of Red-necked Stint *Calidris ruficollis*. Its peak count in spring 2012 was 300 individuals, which was in stark contrast with 956 individuals recorded in spring 2011, and 3,756 individuals recorded in spring 2010. The aggregate peak count of all shorebird species recorded in spring 2012 was 11,185 birds and it was the lowest record in recent years. The peak count of some shorebird species and the aggregate peak count of all shorebird species recorded in spring 2005 to 2012 are presented in Table 1. Full details of the Shorebird Counts conducted in spring 2012 are provided in Figures 21 to 38.

Table 1. Peak counts of some shorebird species in spring of recent years.

| Species | 2012 | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 | 2005 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|
| Pacific Golden Plover <i>Pluvialis fulva</i> | 245 | 305 | 525 | 288 | 67 | 160 | 219 | 54 |
| Lesser Sand Plover <i>Charadrius mongolus</i> | 14 | 79 | 87 | 85 | 78 | 179 | 35 | 30 |
| Ruddy Turnstone <i>Arenaria interpres</i> | 5 | 34 | 30 | 40 | 46 | 100 | 34 | 39 |
| Red Knot <i>Calidris canutus</i> | 5 | 25 | 26 | 19 | 52 | 144 | 16 | 5 |
| Red-necked Stint <i>C. ruficollis</i> | 300 | 956 | 3,756 | 2,700 | 733 | 2,239 | 1,478 | 1,909 |
| Long-toed Stint <i>C. subminuta</i> | 6 | 59 | 28 | 32 | 20 | 4 | 11 | 7 |
| Sharp-tailed Sandpiper <i>C. acuminata</i> | 15 | 130 | 59 | 22 | 86 | 175 | 68 | 41 |
| Curlew Sandpiper <i>C. ferruginea</i> | 6,147 | 5,794 | 9,296 | 9,168 | 9012 | 10,982 | 4,151 | 3,947 |
| Aggregate peak count of all shorebird species recorded in spring | 11,185 | 16,187 | 23,871 | 23,614 | 18,468 | 21,223 | 14,942 | 14,312 |

Summer 2012

The number of shorebirds was low in June 2012 and early July 2012 - 173 birds

counted on 8 June 2012; 337 birds counted on 22 June 2012 and 218 birds counted on 4 July 2012. All these records were generally higher than the corresponding records of the previous year. Some breeding Black-winged Stilts *Himantopus himantopus* were recorded in the MPNR but their numbers were apparently lower than the records of the same period in the previous year (2012: maximum 20 adults; 2011: maximum 62 adults). Other species of migratory shorebirds were recorded in low numbers and the most notable counts were only 107 Common Greenshanks recorded on 22 June 2012 and 100 Terek Sandpipers recorded on 8 June 2012.

Aggregate numbers recorded

In an attempt to estimate the total number of shorebirds that had utilised the Mai Po Inner Deep Bay Ramsar Site during the 12-month period from July 2011 to June 2012, the peak count in autumn, winter and spring for each positively-identified shorebird species were added to obtain the aggregate number (Table 2). Some shorebird species habitually stayed in the wetlands for a prolonged period of time and hence, they might be subjected to repeated counts in different seasons. These birds are marked with asterisks in Table 2 and they were excluded from the calculation of the estimate.

Table 2. The minimum number of shorebirds estimated to have utilized the Mai Po Inner Deep Bay Ramsar Site during the 12-month period from July 2011 to June 2012.

| Year | 2011 | 2011-12 | 2012 | 2011-12 | 2010-11 | 2009-10 | 2008-09 | 2007-08 |
|--|--------|---------|---------|---------|---------|---------|---------|---------|
| Species | autumn | winter | spring | Minimum | Minimum | Minimum | Minimum | Minimum |
| Pheasant-tailed Jacana <i>Hydrophasianus chirugus</i> | 1 | 2 | 1 | 4 | 3 | 2 | 1 | 5 |
| Greater Painted-snipe <i>Rostratula bengalensis</i> | 1 | 0 | 2 | 3 | 4 | 3 | 4 | 2 |
| Black-winged Stilt <i>Himantopus himantopus</i> | 147 | 720 | 257 | 1,124 | 542 | 1,703 | 1,614 | 670 |
| Pied Avocet <i>Recurvirostra avosetta</i> | 446* | 14,604 | 11,488* | 14,604 | 10,944 | 13,883 | 13,061 | 16,123 |
| Oriental Pratincole <i>Glareola maldivarum</i> | 1 | 0 | 1 | 2 | 6 | 4 | 3 | 9 |
| Northern Lapwing <i>Vanellus vanellus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grey-headed Lapwing <i>V. cinereus</i> | 0 | 3 | 0 | 3 | 2 | 0 | 1 | 4 |
| Pacific Golden Plover <i>Pluvialis fulva</i> | 238 | 775 | 245 | 1,258 | 1,142 | 539 | 731 | 642 |
| Grey Plover <i>P. squatarola</i> | 35 | 594 | 70* | 629 | 320 | 637 | 582 | 780 |
| Common Ringed Plover <i>Charadrius hiaticula</i> | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Little Ringed Plover <i>C. dubius</i> | 11 | 123 | 2 | 136 | 120 | 206 | 349 | 228 |
| Kentish Plover <i>C. alexandrinus</i> | 460 | 2,640 | 47 | 3,147 | 720 | 4,328 | 2,356 | 1,867 |
| Lesser Sand Plover <i>C. mongolus</i> | 4 | 30 | 14 | 48 | 111 | 92 | 119 | 85 |
| Greater Sand Plover <i>C. leschenaultii</i> | 115 | 7 | 114 | 236 | 861 | 941 | 795 | 383 |

| Year | 2011 | 2011-12 | 2012 | 2011-12 | 2010-11 | 2009-10 | 2008-09 | 2007-08 |
|--|--------|---------|--------|---------|---------|---------|---------|---------|
| Species | autumn | winter | spring | Minimum | Minimum | Minimum | Minimum | Minimum |
| Oriental Plover <i>C. veredus</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Black-tailed Godwit <i>Limosa limosa</i> | 465* | 520 | 1,469 | 1,989 | 3,432 | 2,449 | 2,223 | 1,656 |
| Bar-tailed Godwit <i>Limosa lapponica</i> | 14 | 4 | 20 | 38 | 20 | 55 | 106 | 80 |
| Little Curlew <i>Numenius minutes</i> | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Whimbrel <i>Numenius phaeopus</i> | 109 | 2 | 57 | 168 | 299 | 188 | 303 | 203 |
| Eurasian Curlew <i>N. arquata</i> | 103* | 1,128 | 222* | 1,128 | 1,602 | 1,075 | 1,065 | 1,116 |
| Far Eastern Curlew <i>N. madagascariensis</i> | 2 | 1 | 5 | 8 | 5 | 22 | 18 | 23 |
| Spotted Redshank <i>Tringa erythropus</i> | 29 | 94 | 272 | 395 | 623 | 990 | 1,690 | 1,641 |
| Common Redshank <i>T. totanus</i> | 1,002 | 365 | 428 | 1,795 | 1,577 | 1,473 | 2,215 | 2,257 |
| Marsh Sandpiper <i>T. stagnatilis</i> | 1,349* | 2,237 | 878* | 2,237 | 3,056 | 3,381 | 3,192 | 3,090 |
| Common Greenshank <i>T. nebularia</i> | 1,173 | 944 | 1,012 | 3,129 | 2,574 | 3,495 | 4,366 | 4,493 |
| Nordmann's Greenshank <i>T. guttifer</i> | 0 | 1 | 34 | 35 | 45 | 16 | 34 | 26 |
| Green Sandpiper <i>T. ochropus</i> | 1 | 31 | 1 | 33 | 28 | 45 | 31 | 34 |
| Wood Sandpiper <i>T. glareola</i> | 229 | 145 | 214 | 588 | 568 | 364 | 578 | 501 |
| Terek Sandpiper <i>Xenus cinereus</i> | 106 | 10 | 290 | 406 | 424 | 619 | 600 | 571 |
| Common Sandpiper <i>Actitis hypoleucos</i> | 3 | 110 | 2 | 115 | 96 | 123 | 65 | 86 |
| Grey-tailed Tattler <i>Heteroscelus brevipes</i> | 6 | 0 | 13 | 19 | 15 | 15 | 188 | 26 |
| Ruddy Turnstone <i>Arenaria interpres</i> | 1 | 0 | 5 | 6 | 34 | 30 | 41 | 46 |
| Red-necked Phalarope <i>Phalaropus lobatus</i> | 2 | 0 | 1 | 3 | 6 | 12 | 7 | 34 |
| Pintail/Swinhoe's Snipe <i>Gallinago stenura/megala</i> | 1 | 0 | 1 | 2 | 7 | 6 | 3 | 12 |
| Common Snipe <i>Gallinago gallinago</i> | 1 | 27 | 0 | 28 | 27 | 21 | 5 | 28 |
| Long-billed Dowitcher <i>Limnodromus scolopaceus</i> | 0 | 1 | 1 | 2 | 6 | 3 | 5 | 3 |
| Asian Dowitcher <i>Limnodromus semipalmatus</i> | 3 | 0 | 69 | 72 | 82 | 194 | 138 | 441 |
| Red Knot <i>Calidris canutus</i> | 9 | 3 | 5 | 17 | 27 | 50 | 25 | 66 |
| Great Knot <i>C. tenuirostris</i> | 46 | 24 | 106 | 176 | 174 | 407 | 432 | 207 |
| Sanderling <i>C. alba</i> | 0 | 0 | 1 | 1 | 6 | 4 | 12 | 5 |
| Red-necked Stint <i>C. ruficollis</i> | 8 | 3 | 300 | 311 | 990 | 3,861 | 2,779 | 913 |
| Little Stint <i>C. minuta</i> | 0 | 0 | 1 | 1 | 2 | 3 | 6 | 2 |
| Temminck's Stint <i>C. temminckii</i> | 0 | 41 | 2 | 43 | 51 | 53 | 43 | 21 |
| Long-toed Stint <i>C. subminuta</i> | 2 | 0 | 6 | 8 | 64 | 39 | 45 | 28 |
| Pectoral Sandpiper <i>C. melanotos</i> | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 1 |

| Year | 2011 | 2011-12 | 2012 | 2011-12 | 2010-11 | 2009-10 | 2008-09 | 2007-08 |
|--|--------|---------|--------|---------|---------|---------|---------|---------|
| Species | autumn | winter | spring | Minimum | Minimum | Minimum | Minimum | Minimum |
| Sharp-tailed Sandpiper <i>C. acuminata</i> | 4 | 0 | 15 | 19 | 131 | 59 | 31 | 90 |
| Dunlin <i>C. alpine</i> | 300 | 3,100 | 1 | 3,401 | 1,478 | 2,500 | 1,177 | 1,800 |
| Curlew Sandpiper <i>C. ferruginea</i> | 135 | 0 | 6,147 | 6,282 | 5,889 | 9,350 | 9,454 | 9,195 |
| Spoon-billed Sandpiper <i>Eurynorhynchus pygmeus</i> | 0 | 0 | 1 | 1 | 4 | 1 | 1 | 2 |
| Broad-billed Sandpiper <i>Limicola falcinellus</i> | 13 | 1 | 21 | 35 | 101 | 55 | 89 | 141 |
| Ruff <i>Philomachus pugnax</i> | 0 | 0 | 1 | 1 | 5 | 3 | 4 | 6 |
| Tringa spp. | 0 | 0 | 0 | 0 | 0 | 0 | 3,870 | 939 |
| Small wader spp. (mainly Dunlin or Kentish Plover) | 0 | 0 | 540* | 0 | 0 | 0 | 0 | 0 |
| NUMBER OF SPECIES | 38 | 32 | 45 | 46 | 46 | 46 | 46 | 48 |
| AGGREGATE PEAK COUNT OF ALL SHOREBIRD SPECIES | 4,212 | 28,290 | 11,185 | 43,687 | 38,223 | 53,300 | 54,457 | 50,582 |

Note: Number marked with asterisk refers to the birds recorded in one season which might be one and the same flock of birds found in other seasons.

As shown in Table 2 above, the aggregate peak count of all shorebird species in 2011-12 was 43,687 individuals, an increase of 14% from 2010-11 (i.e. 38,223 individuals). The increase was mainly attributable to the large number of Pied Avocets, Kentish Plovers and Dunlins wintering in the Deep Bay area in this winter. The aggregate peak count for autumn and spring was 15,397 individuals, a considerable reduction of 35% from the corresponding record of the previous year (i.e. 23,529 individuals). The ten most numerous shorebird species recorded in the 12-month period from July 2011 to June 2012, in descending order, were: Pied Avocet (14,604, 33% of all-year aggregate), Curlew Sandpiper (6,282, 14.4%), Dunlin (3,401, 7.8%), Kentish Plover (3,147, 7.2%), Common Greenshank (3,129, 7.2%), Marsh Sandpiper (2,237, 5.1%), Black-tailed Godwit (1,989, 4.6%), Common Redshank (1,795, 4.1%), Pacific Golden Plover (1,258, 2.9%) and Eurasian Curlew (1,128, 2.6%).

The peak count of a single day was not representative of the total abundance of shorebirds utilising an area because turnover of the birds had not been taken into account. 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 lied in the range of 3 to 4.5 times of the peak daily count of passage shorebirds. Applying this estimate to the aggregate of 15,397 shorebirds recorded in autumn and spring, it was projected that the Deep Bay area had supported passage shorebirds in the range of 46,191 to 69,287 during migratory season in 2011-12.

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 Wetland International (2012). Table 3 is an extract of certain migratory shorebirds utilising the Mai Po Inner Deep Bay Ramsar Site during the period from July 2011 to June 2012 expressed in terms of their flyway or regional population.

Table 3. Counts of some shorebird species recorded in the Deep Bay area during July 2011 to June 2012, converted in terms of flyway/regional population

| Species | Flyway/regional population | Number recorded | Percentage |
|---|-----------------------------------|------------------------|-------------------|
| Pied Avocet <i>Recurvirostra avosetta</i> | 1,000 (1% level) | 14,604 | 14% |
| Pacific Golden Plover <i>Pluvialis fulva</i> | 1,000 (1% level) | 1,258 | 1.3% |
| Kentish Plover <i>Charadrius alexandrinus</i> | 1,000 (1% level) | 3,147 | 3.1% |
| Black-tailed Godwit <i>Limosa limosa</i> | 139,000 | 1,989 | 1.4% |
| Eurasian Curlew <i>Numenius arquata</i> | 100,000 | 1,128 | 1.1% |
| Spotted Redshank <i>Tringa erythropus</i> | 25,000 | 395 | 1.6% |
| Common Redshank <i>Tringa totanus</i> | 1,000 (1% level) | 1,795 | 1.8% |
| Common Greenshank <i>Tringa nebularia</i> | 1,000 (1% level) | 3,129 | 3.1% |
| Nordmann's Greenshank <i>Tringa guttifer</i> | 400-600 | 35 | 6-9% |
| Curlew Sandpiper <i>Calidris ferruginea</i> | 135,000 | 6,282 | 4.7% |

Globally threatened species

With regard to the globally threatened species listed in BirdLife International (2012), the followings were recorded during July 2011 to June 2012:

- Black-tailed Godwit (Near-threatened): a total of 1,989 individuals were recorded in this 12-month period including peak counts of 520 birds in winter and 1,469 birds in spring. The recorded figure showed a significant decrease of 42% from that of the previous year but the record of the previous year was exceptionally high. Applying the criterion that 1% regional population was 1,400 individuals (Wetlands International 2012), the Deep Bay area had supported 1.4% of the regional population in 2011-12.
- Eurasian Curlew (Near-threatened): this species was recorded in the Deep Bay area throughout the non-breeding period with higher numbers in the mid-winter period. A total of 1,128 individuals were recorded in the December Waterbird Count, a decrease of 30% from that of the previous year (i.e. 1,602

individuals, the highest record for this species in Deep Bay). Applying the criterion that 1% regional population was 1,000 individuals (Wetlands International 2012), the Deep Bay area had supported 1.1% of the regional population in 2011-12.

- Eastern Curlew (Vulnerable): It was named as “Far Eastern Curlew” in previous reports. Throughout the year, a total of 8 individuals were recorded (2 in autumn, 1 in winter and 5 in spring), an increase of 38% from the previous year (i.e. 5 individuals were recorded in 2010-11).
- Nordmann’s Greenshank (Endangered): None was recorded in autumn 2011 while 1 individual was recorded in winter 2011 and a total of 34 individuals were recorded in spring 2012. The aggregate for the year 2011-12 showed a decrease of 22% from the previous year (i.e. 2010-11, 45 individuals). Applying the criterion that the global population was in the range of 400-600 individuals (Wetlands International 2012), the Deep Bay area had supported 6-9% of the global population in 2011-12.
- Asian Dowitcher (Near-threatened): a total of 72 individuals were recorded in 2011-12 (3 in autumn and 69 in spring). There was a decrease of 12% as compared with the previous year.
- Great Knot (Vulnerable): a total of 176 individuals were recorded throughout the year 2011-12, of which 46 birds were recorded in autumn, 24 birds were recorded in winter and the rest of 106 birds were recorded in spring. Although the record taken was similar to that of the previous year (i.e. 2010-11, 174 individuals), it was comparatively lower than the aggregate number of 407 individuals recorded in 2009-10 and 432 individuals found in 2008-09.
- Spoon-billed Sandpiper (Critically Endangered): Only a single individual was recorded in the Shorebird Counts conducted in spring 2012, although it was reported by other observers that they had sighted several individuals throughout this spring. This species was a regular migrant in Hong Kong in spring but was very rare in autumn. There was also only one bird recorded in the previous year. The 1% regional population was 3 individuals (Wetlands International 2012).

Sightings of leg-flagged shorebirds

In 2011-12, a total of 204 sightings of leg-flagged shorebirds were collected through several means, including direct observations by shorebird count surveyers, reports from bird watchers and photographers, and information posted in the Hong Kong Bird Watching Society's webpage. There was a big increase of 77% in the sighting records as compared with the previous year (i.e. 115 records). Among the sighting records, a total of 148 (73%) records were birds fitted with the local Hong Kong flags (i.e. white (above) and yellow (below) flags) while the remaining 56 (27%) records were birds from overseas.

One purpose of ringing shorebirds with leg-flags was to study their migration route. Out of the 56 sighting records relating to birds from overseas, 40 (71%) of them were birds carrying a single yellow flag, meaning that they were tagged in the North Western Australia. The other 10 (18%) sightings were birds attached with a single orange flag, meaning that they were originated from Victoria, Australia. There were also records relating to a Dunlin from Sakhalin Island of Russia, a Grey-tailed Tattler from Shanghai, Mainland China and a Curlew Sandpiper from Thailand. More details are provided in Appendix 5. In terms of shorebird species, flagged Curlew Sandpipers were recorded in 26 (13%) sightings and flagged Red-necked Stints made up the other 15 (7%) sightings.

Other observations

Comparing to the previous year, the shorebirds abundance in the Mai Po Inner Deep Bay Ramsar Site was higher in winter but lower in autumn and spring. Tidal height was one important factor affecting the counting activities as more accurate result was obtained at time of high tide. However, on several counting days with high tide in autumn 2011 and spring 2012, comparatively low numbers of waterbirds were recorded even they were days with high tide. There was no particular meteorological information from the Hong Kong Observatory that could provide possible or relevant explanation for the decline in shorebird abundance in autumn and spring. This reflected that a few shorebird species were in fact declining in number in the Deep Bay area.

A recent analysis of the East Asia coastal area indicated that intertidal mudflat in the East Asian region has been seriously threatened by economic developments (MacKinnon *et. al.* 2012). In recent years, the numbers of Spoon-billed Sandpiper, Eastern Curlew and Great Knot are decreasing and there are increasing concerns at the international level about their globally threatened status. In addition, the 1%

regional population of Spotted Redshank has now been revised to 250 individuals only (Wetlands International 2012), which was previously set at 1,000 individuals. This species has also shown a declining trend in its population in the Deep Bay area. On the whole, the Shorebird Count is an important tool for analyzing the annual trend of shorebird abundance in the Inner Deep Bay area.

Acknowledgements

We would like to thank members of the Hong Kong Bird Watching Society for providing sighting reports of colour-flagged shorebirds.

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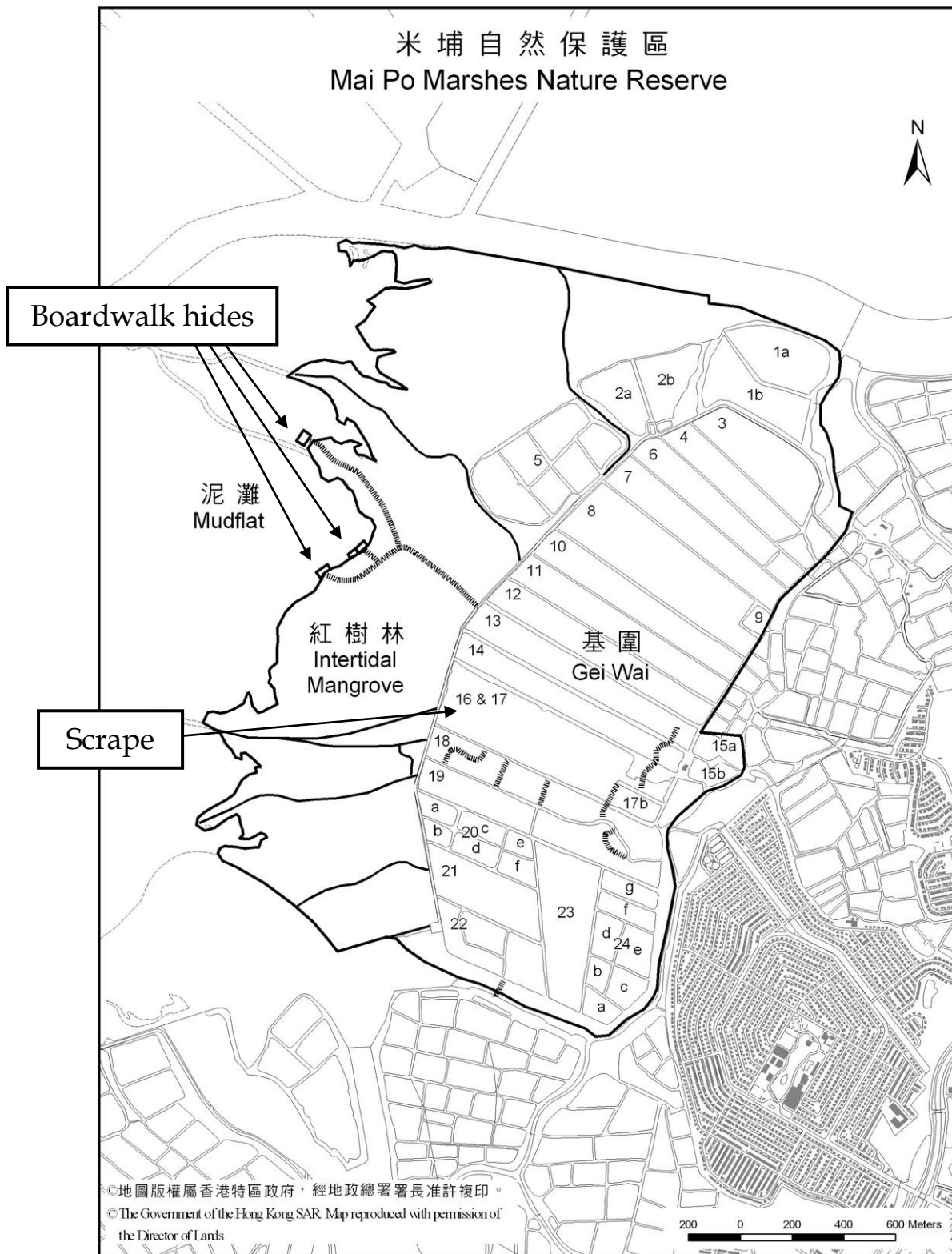
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Map 1. Mai Po Nature Reserve – the site under study in the Shorebird Monitoring Programme, 2011-12.



Shorebird Monitoring at the Mai Po Marshes and Inner Deep Bay Ramsar Site

2011-12 Report

Appendix 1

Counts of shorebirds in the Mai Po Inner Deep Bay
Ramsar Site in autumn 2011



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

| | | | | | | | | | | | | | | | | | |
|-------------------------|---|-----|-----|-----|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| Whimbrel | 0 | 26 | 13 | 2 | 66 | 77 | 109 | 75 | 90 | 29 | 64 | 2 | 11 | 2 | 9 | 2 | 2 |
| Eurasian Curlew | 0 | 45 | 52 | 65 | 83 | 41 | 77 | 71 | 76 | 74 | 76 | 103 | 13 | 98 | 99 | 101 | 13 |
| Far Eastern Curlew | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 2 | 0 | 1 | 0 |
| Spotted Redshank | 0 | 2 | 0 | 2 | 29 | 19 | 3 | 0 | 0 | 2 | 2 | 7 | 9 | 3 | 1 | 27 | 1 |
| Common Redshank | 0 | 348 | 487 | 821 | 1002 | 728 | 219 | 240 | 121 | 103 | 75 | 206 | 48 | 77 | 71 | 112 | 29 |
| Marsh Sandpiper | 0 | 10 | 15 | 8 | 40 | 94 | 73 | 163 | 148 | 368 | 399 | 587 | 417 | 890 | 665 | 1349 | 540 |
| Common Greenshank | 0 | 57 | 338 | 434 | 1054 | 1173 | 513 | 871 | 655 | 596 | 758 | 919 | 891 | 958 | 530 | 804 | 3 |
| Nordmann's Greenshank | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Green Sandpiper | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Wood Sandpiper | 0 | 4 | 73 | 46 | 229 | 64 | 94 | 54 | 0 | 31 | 4 | 24 | 73 | 88 | 0 | 56 | 0 |
| Terek Sandpiper | 0 | 5 | 0 | 1 | 39 | 100 | 106 | 14 | 8 | 5 | 33 | 0 | 1 | 0 | 0 | 0 | 0 |
| Common Sandpiper | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 2 |
| Grey-tailed Tattler | 0 | 0 | 0 | 0 | 4 | 0 | 3 | 0 | 6 | 0 | 2 | 0 | 1 | 0 | 0 | 0 | 0 |
| Ruddy Turnstone | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Red-necked Phalarope | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 0 |
| Pintail/Swinhoe's Snipe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| Common Snipe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Long-billed Dowitcher | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian Dowitcher | 0 | 0 | 0 | 0 | 1 | 3 | 3 | 3 | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 |
| Red Knot | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 9 | 8 | 0 | 0 | 0 | 0 | 1 | 0 |
| Great Knot | 0 | 0 | 0 | 1 | 0 | 0 | 4 | 1 | 6 | 46 | 39 | 1 | 15 | 0 | 4 | 40 | 15 |
| Sanderling | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | | | | | | | | | | | | |
|-------------------------|---|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Red-necked Stint | 0 | 0 | 1 | 0 | 0 | 3 | 0 | 0 | 2 | 8 | 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| Little Stint | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Long-toed Stint | 0 | 0 | 1 | 1 | 0 | 2 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Pectoral Sandpiper | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sharp-tailed Sandpiper | 0 | 0 | 0 | 1 | 0 | 4 | 1 | 3 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dunlin | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 2 | 0 | 0 | 1 | 5 | 29 | 300 |
| Curlew Sandpiper | 0 | 0 | 5 | 135 | 0 | 9 | 12 | 2 | 0 | 1 | 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 | 0 |
| Broad-billed Sandpiper | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 13 | 9 | 0 | 1 | 0 | 0 | 0 | 0 |
| Ruff | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sand Plover sp. | 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 |
| Large <i>tringa</i> sp. | 0 | 0 | 0 | 0 | 0 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total: | 0 | 553 | 1053 | 1598 | 2705 | 2938 | 1786 | 1827 | 1258 | 1736 | 2025 | 2248 | 1846 | 2802 | 1432 | 3531 | 1416 |

Shorebird Monitoring at the Mai Po Marshes and Inner Deep Bay Ramsar Site

2011-12 Report

Appendix 2

Counts of shorebirds in the Mai Po Inner Deep Bay
Ramsar Site in winter 2011-12



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
2011-12

| | 22 Nov | 16 Dec | 16 Jan | 13 Feb |
|------------------------|--------|--------|--------|--------|
| Pheasant-tailed Jacana | 0 | 0 | 0 | 0 |
| Greater Painted-snipe | 0 | 0 | 0 | 0 |
| Black-winged Stilt | 2 | 0 | 20 | 0 |
| Pied Avocet | 1338 | 5639 | 9294 | 10130 |
| Oriental Pratincole | 0 | 0 | 0 | 0 |
| Northern Lapwing | 0 | 0 | 0 | 0 |
| Grey-headed Lapwing | 0 | 0 | 0 | 0 |
| Pacific Golden Plover | 108 | 49 | 65 | 0 |
| Grey Plover | 260 | 237 | 316 | 594 |
| Common Ringed Plover | 0 | 0 | 0 | 0 |
| Little Ringed Plover | 0 | 0 | 0 | 3 |
| Kentish Plover | 354 | 880 | 2125 | 0 |
| Lesser Sand Plover | 2 | 30 | 0 | 0 |
| Greater Sand Plover | 7 | 0 | 0 | 0 |
| Oriental Plover | 0 | 0 | 0 | 0 |
| Black-tailed Godwit | 1 | 13 | 0 | 0 |
| Bar-tailed Godwit | 3 | 4 | 1 | 0 |
| Little Curlew | 0 | 0 | 0 | 0 |
| Whimbrel | 2 | 0 | 1 | 1 |
| Eurasian Curlew | 220 | 433 | 963 | 974 |
| Far Eastern Curlew | 0 | 0 | 0 | 1 |
| Spotted Redshank | 6 | 23 | 94 | 0 |
| Common Redshank | 43 | 72 | 177 | 36 |
| Marsh Sandpiper | 231 | 573 | 685 | 1591 |
| Common Greenshank | 839 | 617 | 322 | 95 |
| Nordmann's Greenshank | 0 | 0 | 0 | 1 |
| Green Sandpiper | 0 | 0 | 0 | 0 |
| Wood Sandpiper | 0 | 0 | 4 | 0 |
| Terek Sandpiper | 0 | 0 | 1 | 0 |
| Common Sandpiper | 0 | 0 | 1 | 2 |
| Grey-tailed Tattler | 0 | 0 | 0 | 0 |
| Ruddy Turnstone | 0 | 0 | 0 | 0 |
| Red-necked Phalarope | 0 | 0 | 0 | 0 |

| | 22 Nov | 16 Dec | 16 Jan | 13 Feb |
|-------------------------|--------|--------|--------|--------|
| Pintail/Swinhoe's Snipe | 0 | 0 | 0 | 0 |
| Common Snipe | 0 | 0 | 0 | 0 |
| Long-billed Dowitcher | 0 | 0 | 1 | 1 |
| Asian Dowitcher | 0 | 0 | 0 | 0 |
| Red Knot | 0 | 3 | 0 | 3 |
| Great Knot | 0 | 24 | 2 | 23 |
| Sanderling | 0 | 0 | 0 | 0 |
| Red-necked Stint | 3 | 2 | 1 | 0 |
| Little Stint | 0 | 0 | 0 | 0 |
| Temminck's Stint | 0 | 0 | 5 | 1 |
| Long-toed Stint | 0 | 0 | 0 | 0 |
| Pectoral Sandpiper | 0 | 0 | 0 | 0 |
| Sharp-tailed Sandpiper | 0 | 0 | 0 | 0 |
| Dunlin | 2445 | 1631 | 255 | 216 |
| Curlew Sandpiper | 0 | 0 | 0 | 0 |
| Spoon-billed Sandpiper | 0 | 0 | 0 | 0 |
| Broad-billed Sandpiper | 1 | 1 | 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: | 5865 | 10231 | 14333 | 13672 |

Shorebird Monitoring at the Mai Po Marshes and Inner Deep Bay Ramsar Site

2011-12 Report

Appendix 3

Counts of shorebirds in the Mai Po Inner Deep Bay
Ramsar Site in spring 2012



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

| | 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 |
|-------------------------|--------------|--------------|--------------|-------------|------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|
| Spotted Redshank | 4 | 12 | 268 | 198 | 53 | 272 | 106 | 31 | 33 | 177 | 3 | 118 | 255 | 231 | 150 | 85 | 92 | 31 | 6 | 4 | 3 | 3 | 1 | 0 | 0 | 0 | 0 |
| Common Redshank | 41 | 21 | 63 | 113 | 64 | 428 | 157 | 124 | 281 | 147 | 62 | 57 | 89 | 72 | 201 | 76 | 127 | 90 | 61 | 51 | 36 | 12 | 11 | 7 | 4 | 11 | 59 |
| Marsh Sandpiper | 70 | 238 | 225 | 556 | 878 | 300 | 433 | 260 | 297 | 339 | 173 | 21 | 10 | 28 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Common Greenshank | 522 | 799 | 572 | 778 | 376 | 767 | 414 | 483 | 230 | 293 | 160 | 460 | 688 | 1012 | 930 | 335 | 395 | 165 | 76 | 85 | 26 | 86 | 68 | 81 | 5 | 107 | 84 |
| Nordmann's Greenshank | 1 | 1 | 3 | 7 | 24 | 5 | 9 | 3 | 3 | 3 | 0 | 0 | 0 | 2 | 7 | 0 | 0 | 2 | 3 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Green Sandpiper | 0 | 0 | 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 |
| Wood Sandpiper | 0 | 0 | 35 | 5 | 1 | 42 | 14 | 214 | 5 | 1 | 5 | 3 | 14 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Terek Sandpiper | 0 | 0 | 5 | 10 | 78 | 71 | 44 | 16 | 155 | 51 | 52 | 4 | 64 | 81 | 72 | 119 | 94 | 116 | 119 | 227 | 162 | 188 | 290 | 156 | 100 | 96 | 0 |
| Common Sandpiper | 0 | 0 | 2 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grey-tailed Tattler | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 2 | 0 | 3 | 0 | 2 | 1 | 13 | 0 | 1 | 1 | 0 | 9 | 0 | 0 | 1 | 0 | 0 | 2 | 1 | 0 |
| Ruddy Turnstone | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 2 | 5 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Red-necked Phalarope | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Pintail/Swinhoe's Snipe | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Common 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 |
| Long-billed Dowitcher | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Asian Dowitcher | 0 | 0 | 0 | 0 | 2 | 2 | 6 | 8 | 1 | 20 | 5 | 13 | 4 | 69 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Red Knot | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 2 | 0 | 0 | 0 | 5 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 |
| Great Knot | 6 | 5 | 106 | 37 | 50 | 15 | 2 | 10 | 1 | 6 | 3 | 0 | 6 | 9 | 13 | 3 | 1 | 10 | 6 | 4 | 7 | 5 | 7 | 1 | 3 | 1 | 0 |
| Sanderling | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 |
| Red-necked Stint | 16 | 1 | 49 | 26 | 300 | 282 | 1 | 0 | 137 | 213 | 129 | 35 | 144 | 123 | 60 | 179 | 143 | 82 | 60 | 105 | 94 | 36 | 15 | 12 | 0 | 0 | 0 |
| Little Stint | 0 | 0 | 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 |
| Temminck's Stint | 0 | 0 | 0 | 0 | 2 | 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 | 0 | 6 | 0 | 0 | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 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 |
|-------------------------|--------------|--------------|--------------|-------------|------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|------------|------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------|-------------|--------------|-------------|
| Pectoral Sandpiper | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sharp-tailed Sandpiper | 0 | 0 | 0 | 0 | 1 | 15 | 3 | 1 | 1 | 14 | 3 | 1 | 0 | 1 | 0 | 8 | 2 | 0 | 5 | 4 | 5 | 7 | 8 | 2 | 0 | 0 | 0 |
| Dunlin | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Curlew Sandpiper | 105 | 257 | 129 | 40 | 5480 | 535 | 96 | 154 | 6147 | 5225 | 603 | 35 | 59 | 1437 | 335 | 58 | 52 | 28 | 4 | 3 | 17 | 28 | 8 | 6 | 2 | 0 | 0 |
| Spoon-billed Sandpiper | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Broad-billed Sandpiper | 0 | 1 | 3 | 8 | 21 | 9 | 0 | 0 | 13 | 12 | 3 | 1 | 1 | 15 | 9 | 12 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Ruff | 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 |
| Small wader sp. | 0 | 540 | 0 | 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: | 1,183 | 2,283 | 2,269 | 2,158 | 8,329 | 4,385 | 3,079 | 2,852 | 8,250 | 7,855 | 2,315 | 1,847 | 2,137 | 4,377 | 2,320 | 1,052 | 1,050 | 719 | 476 | 585 | 480 | 498 | 493 | 890 | 173 | 337 | 218 |



**Shorebird Monitoring at the
Mai Po Marshes and Inner Deep Bay Ramsar Site**

2011-12 Report

Appendix 4



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Figure 1. Total number of shorebirds recorded at Mai Po Inner Deep Bay, autumn 2011

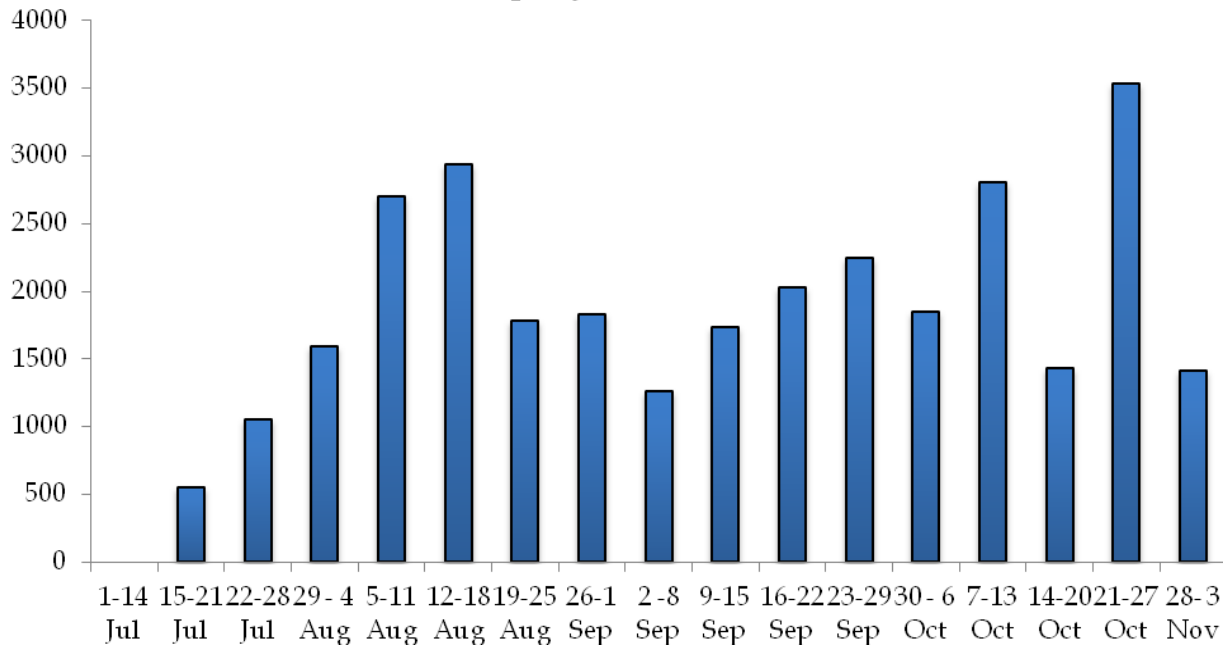


Figure 2. Counts of Black-winged Stilt at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

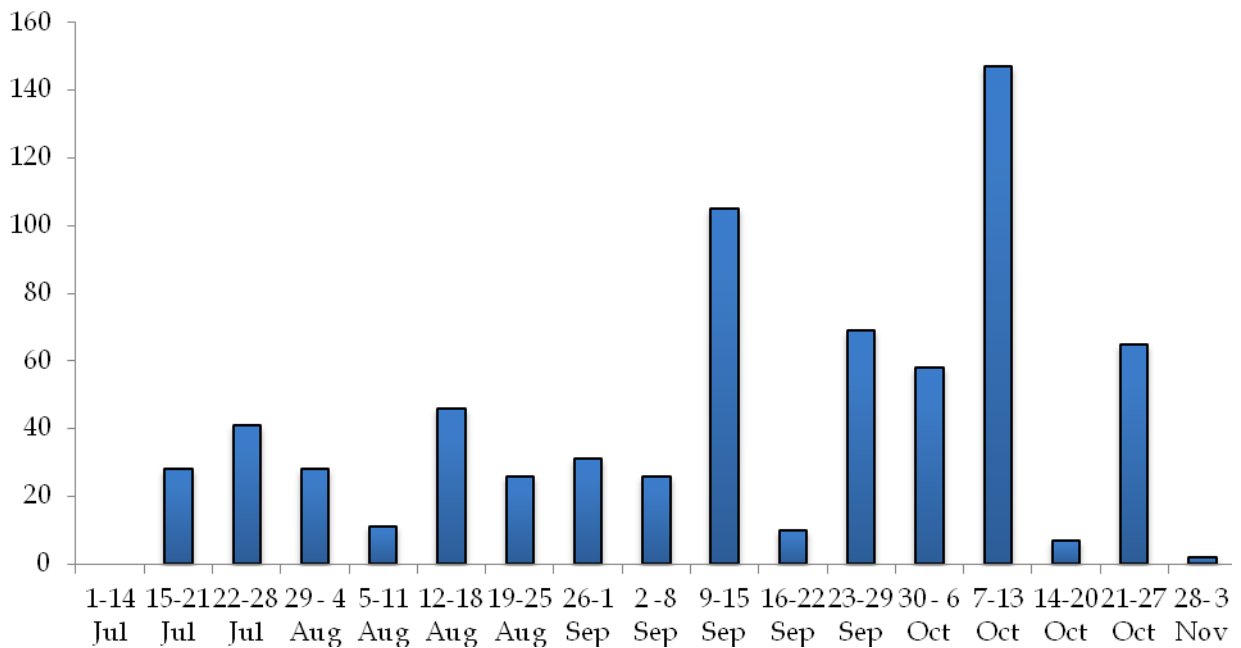


Figure 3. Counts of Pacific Golden Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

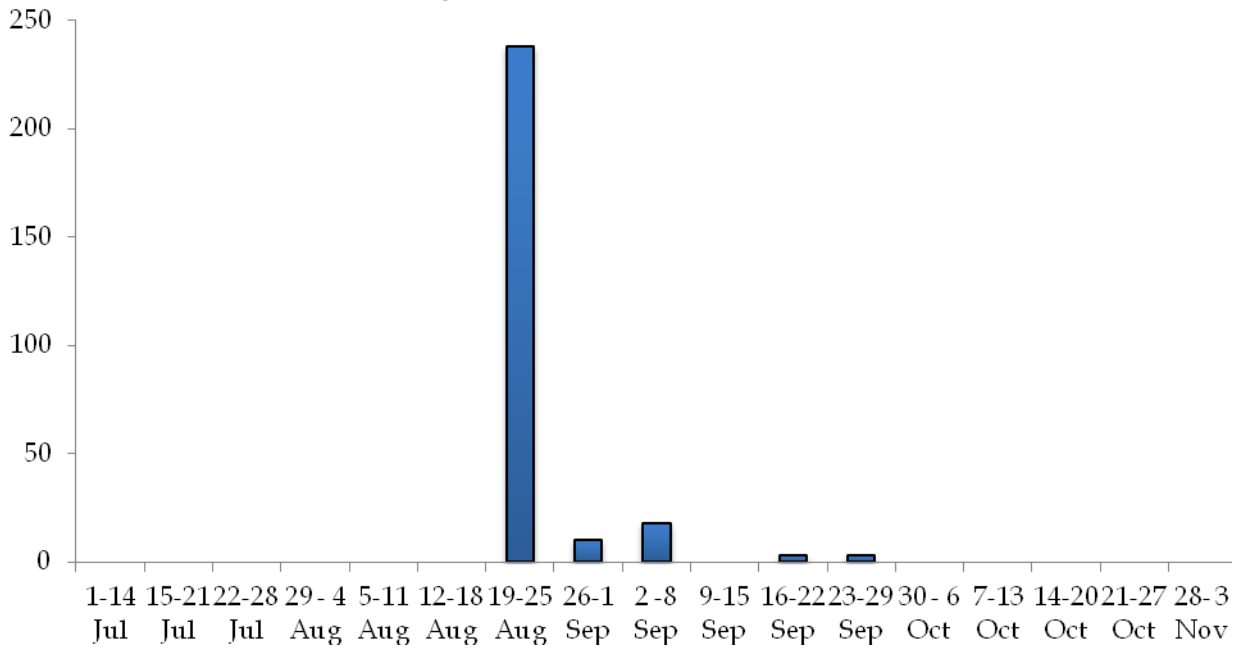


Figure 4. Counts of Kentish Plover at Mai Inner Deep Bay Ramsar Site, autumn 2011

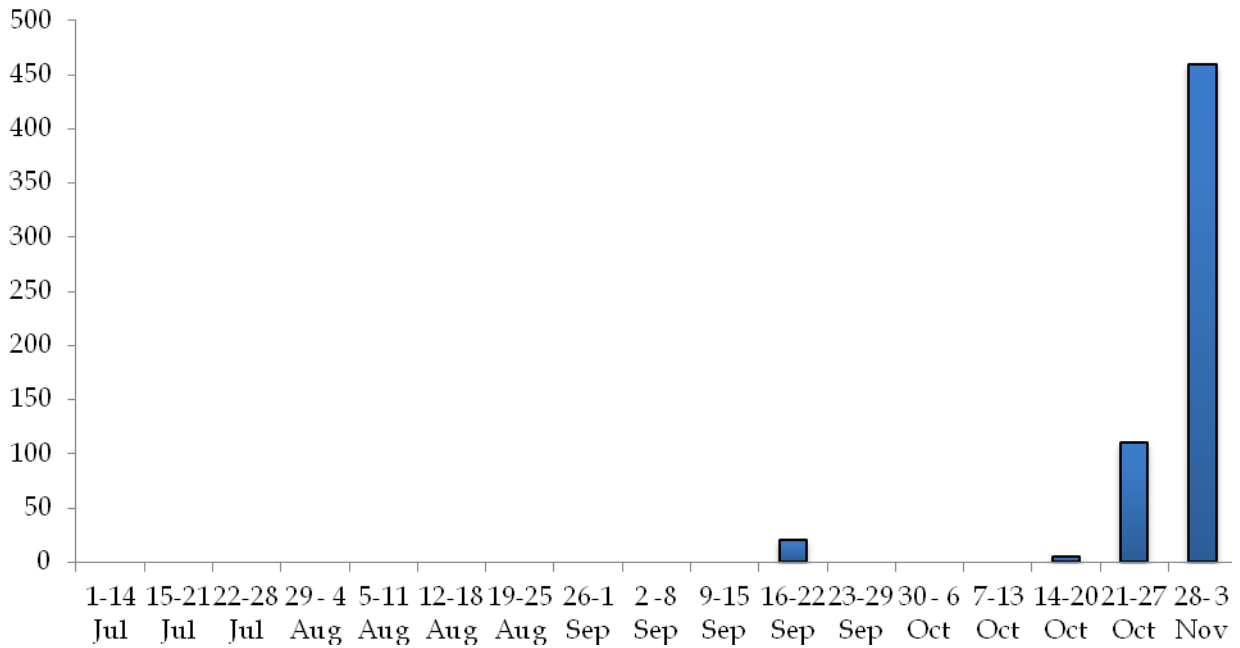


Figure 5. Counts of Grey Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

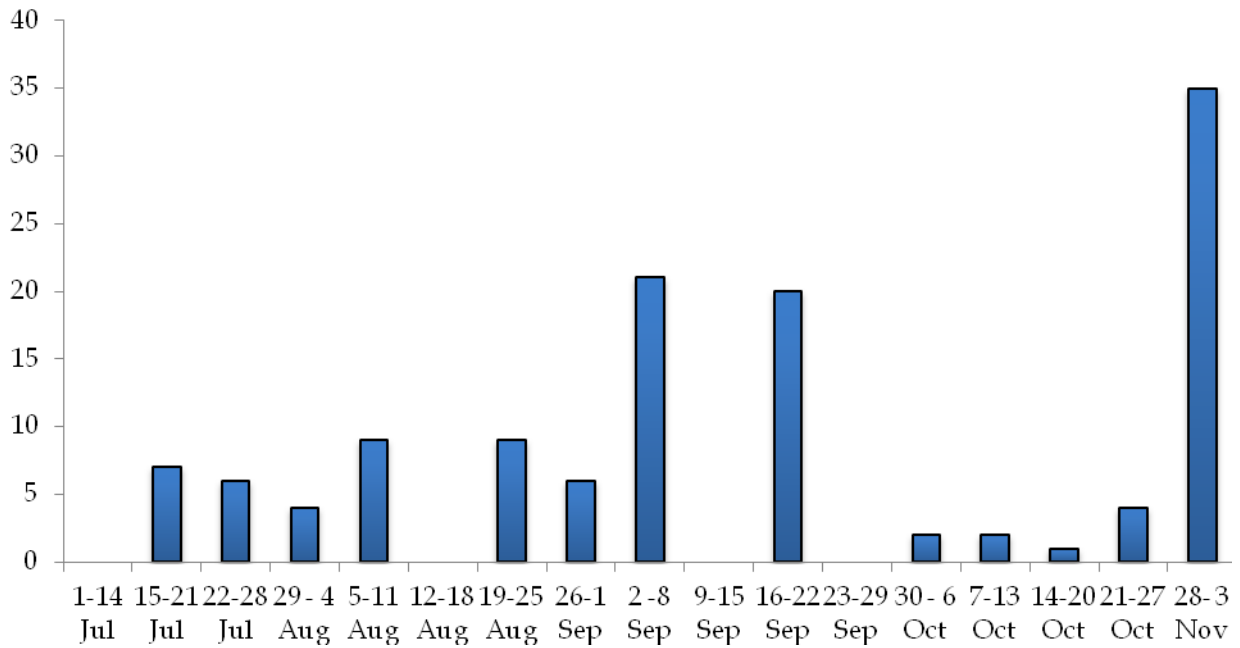


Figure 6. Counts of Lesser Sand Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

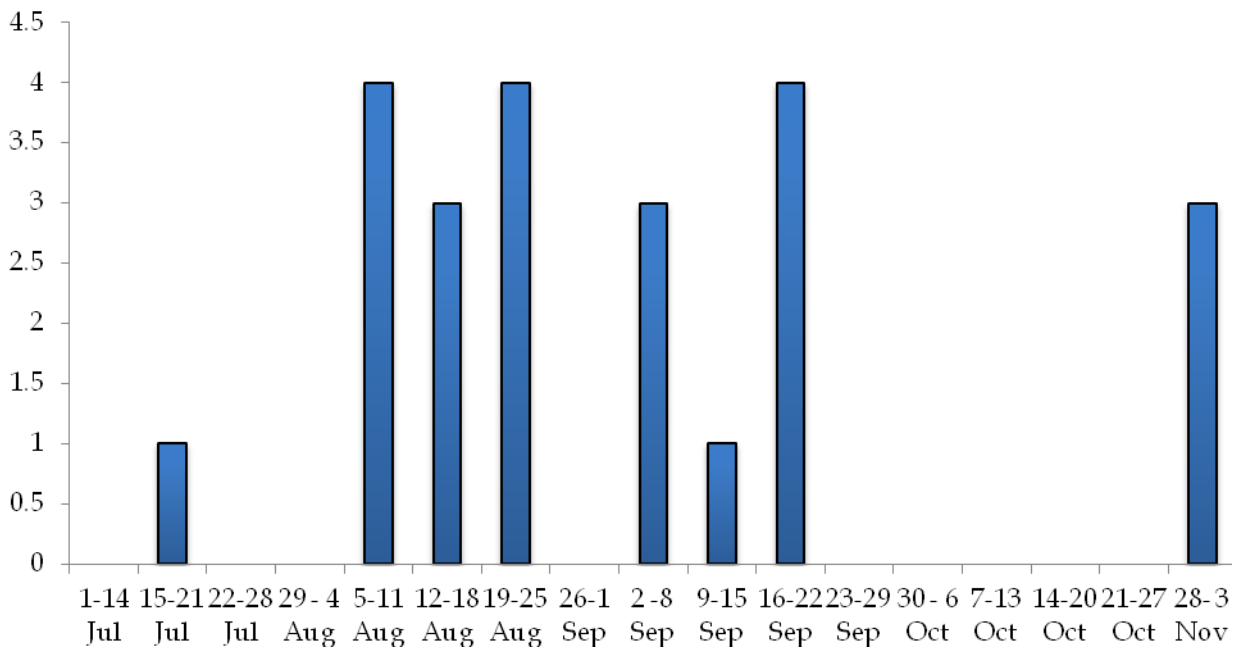


Figure 7. Counts of Greater Sand Plover at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

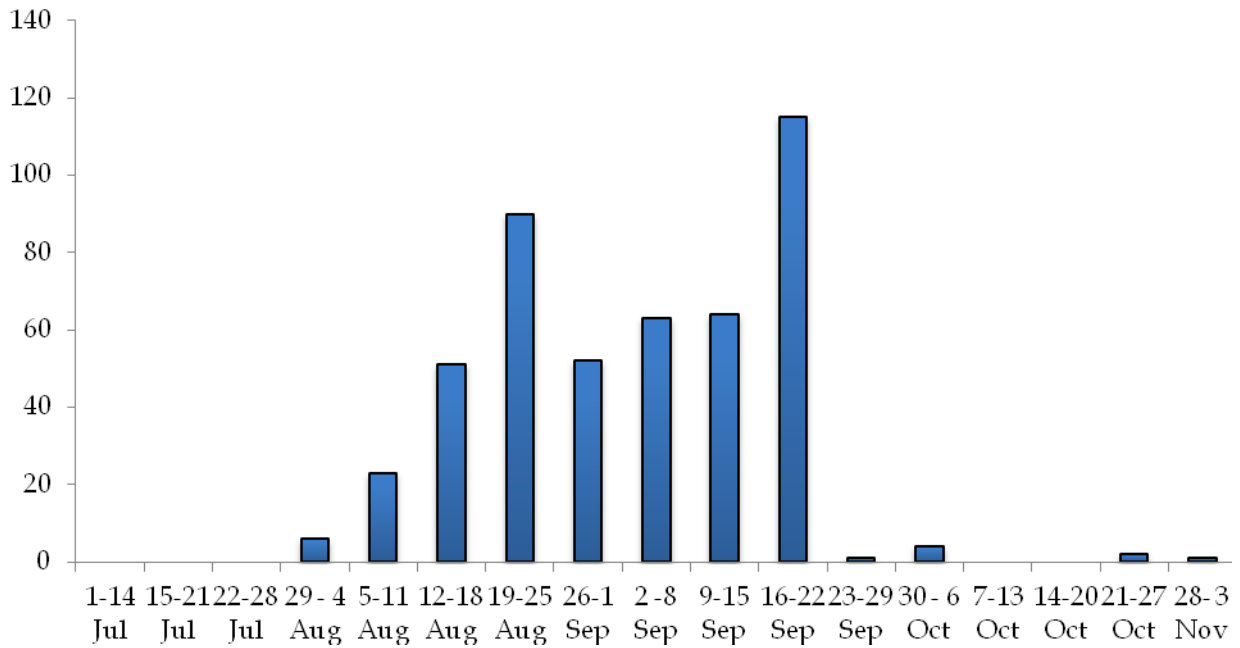


Figure 8. Counts of Black-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

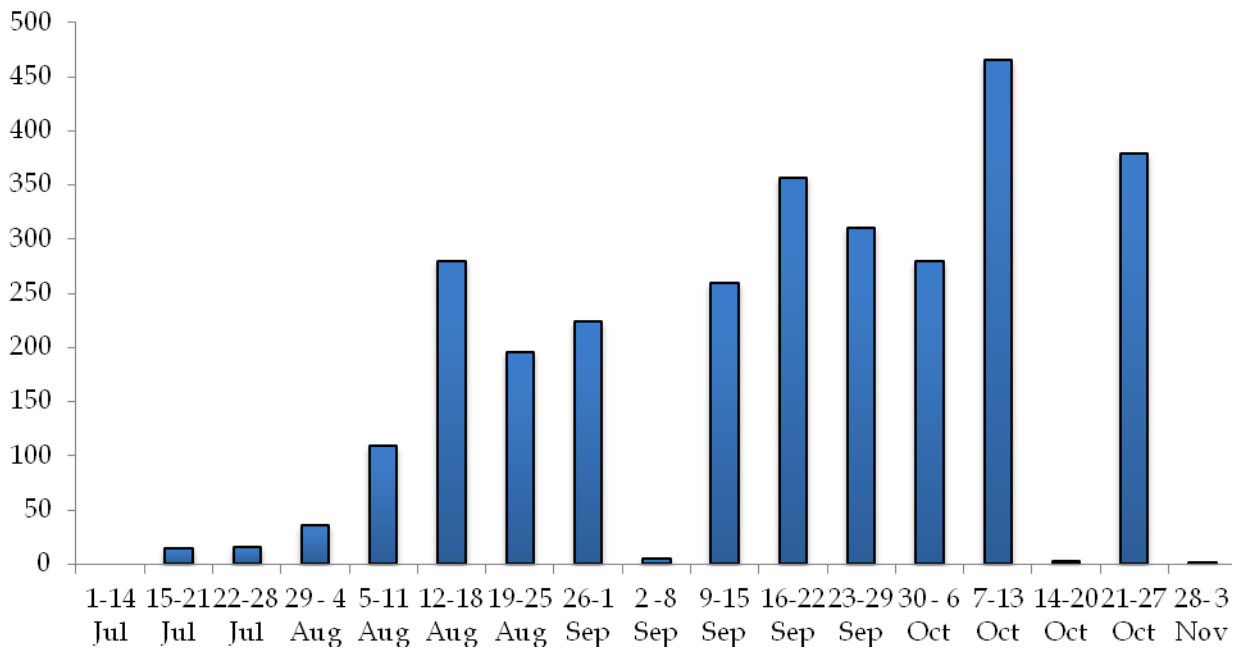


Figure 9. Counts of Bar-tailed Godwit at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

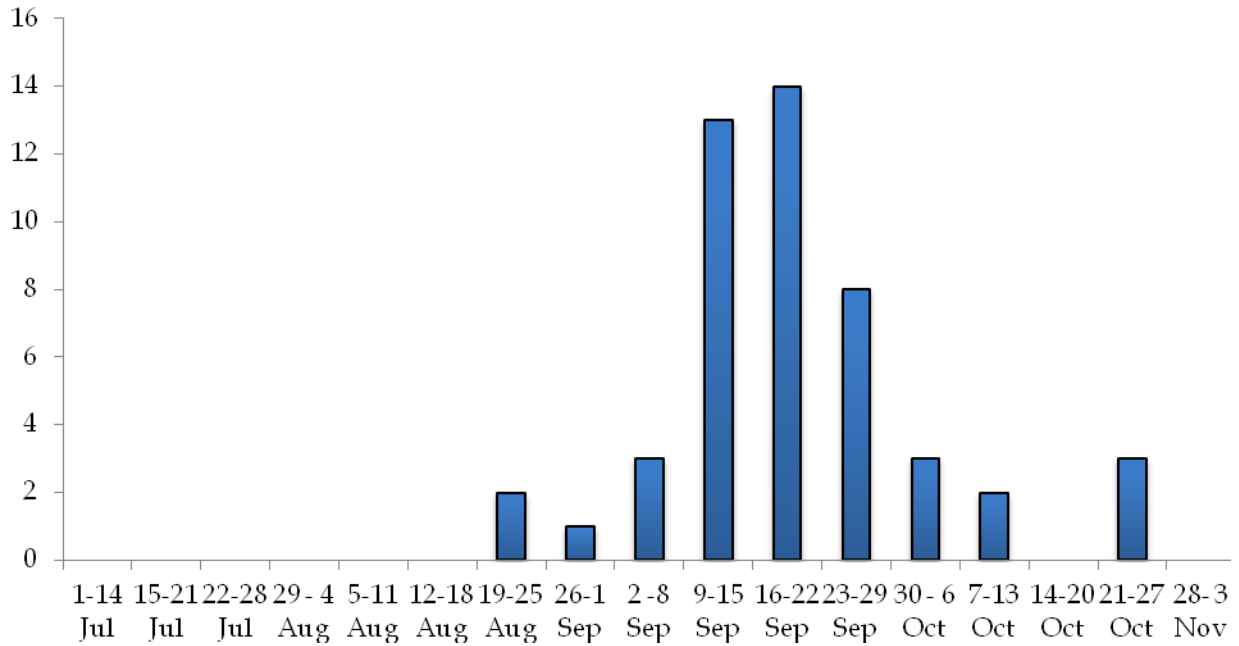


Figure 10. Counts of Whimbrel at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

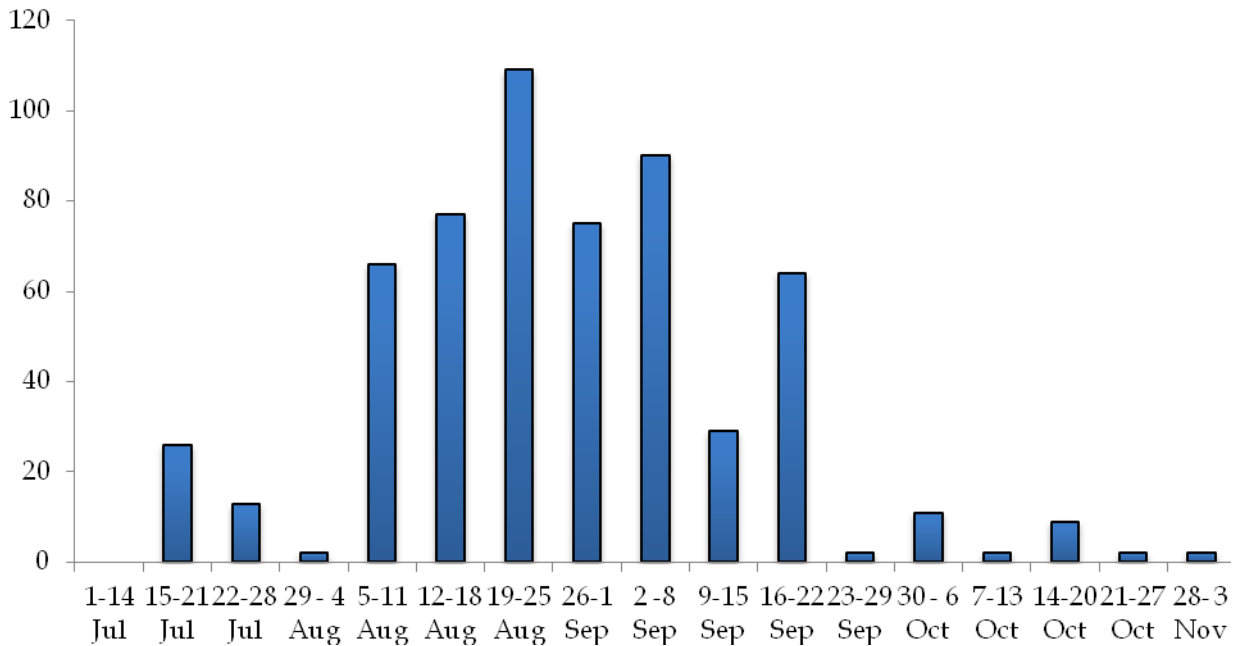


Figure 11. Counts of Eurasian Curlew at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

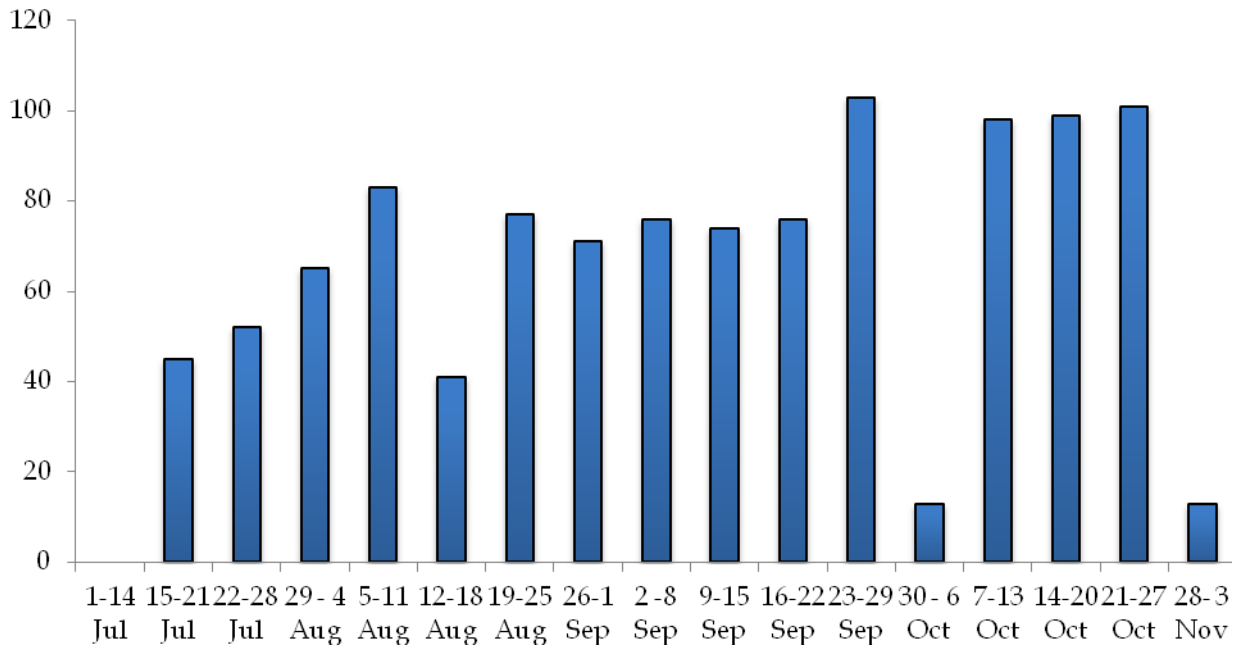


Figure 12. Counts of Spotted Redshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

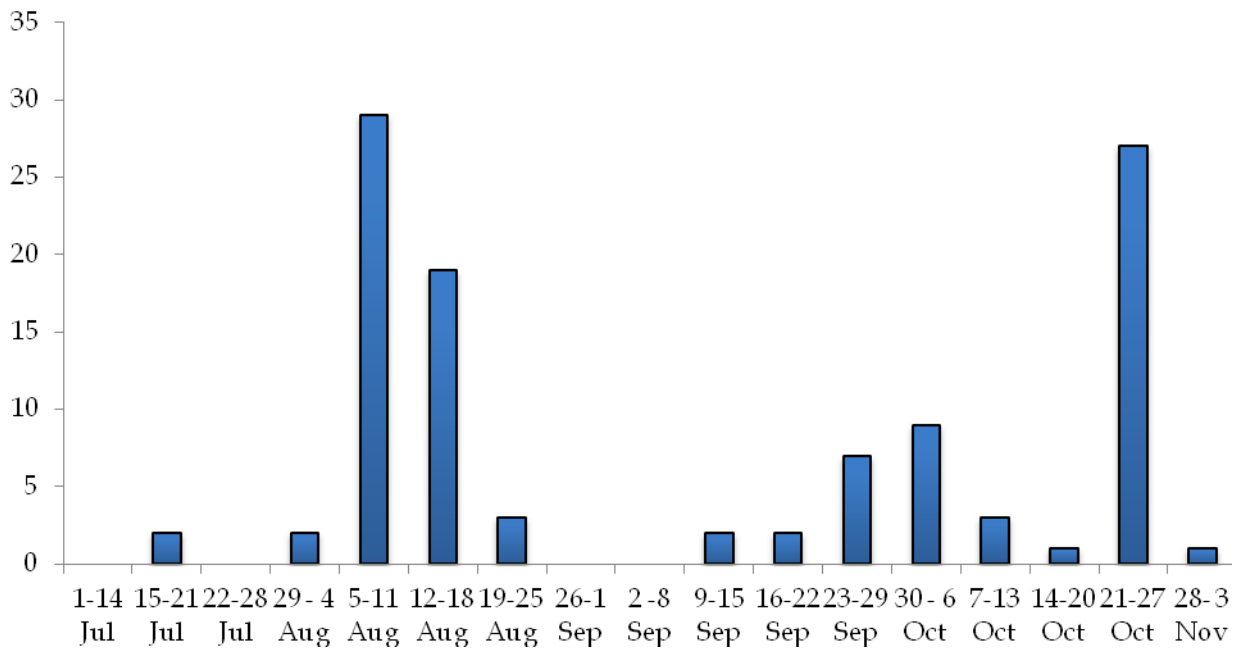


Figure 13. Counts of Common Redshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

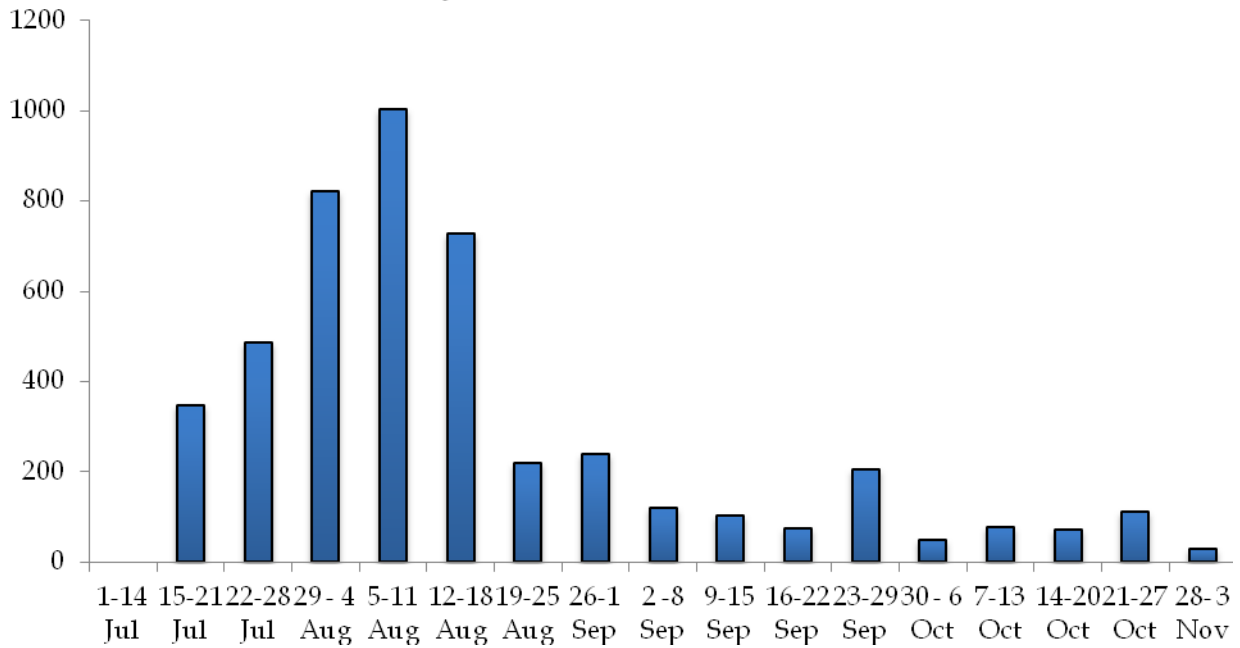


Figure 14. Counts of Marsh Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

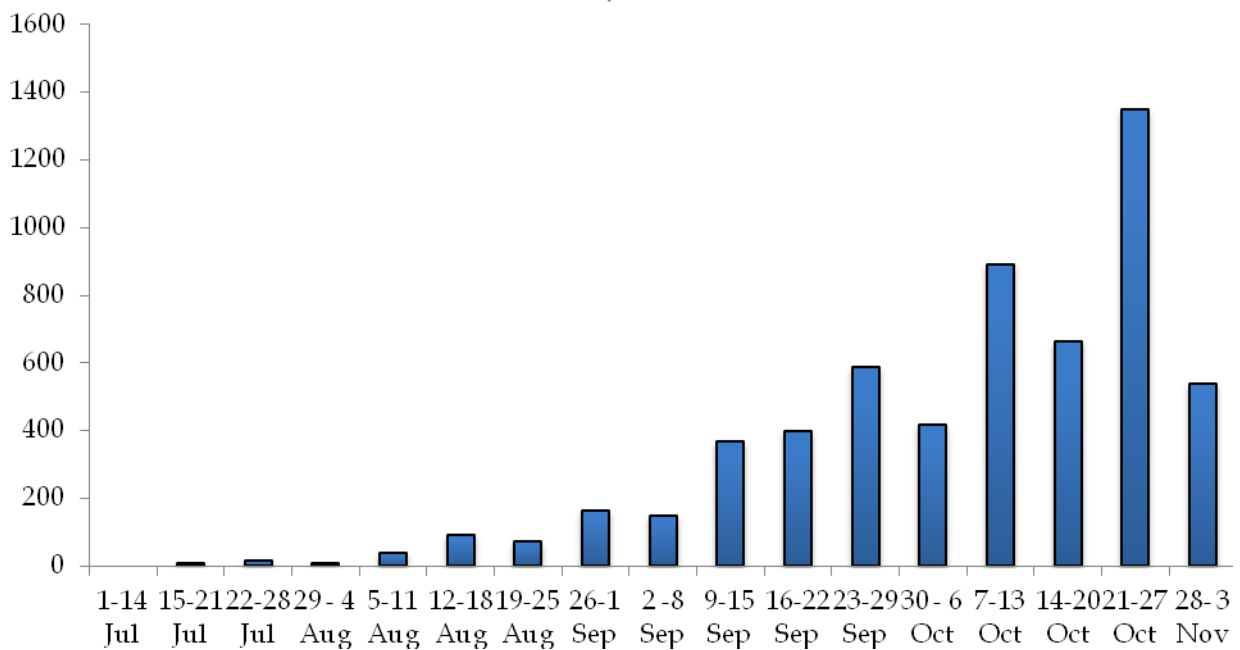


Figure 15. Counts of Common Greenshank at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

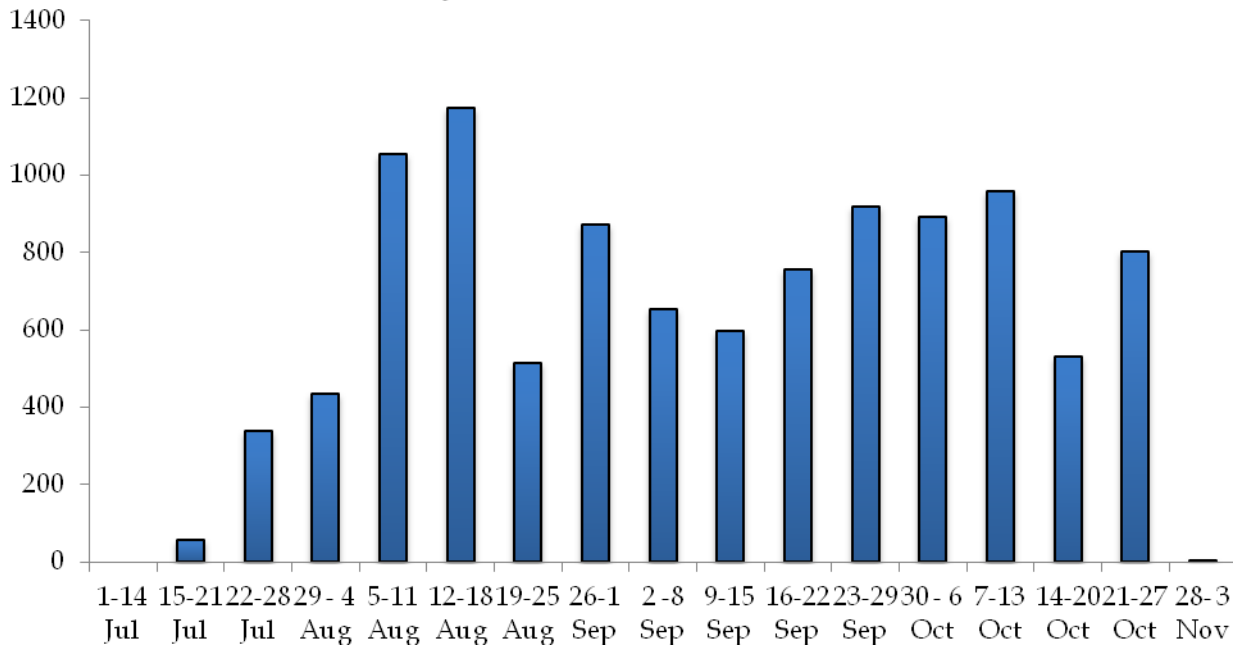


Figure 16. Counts of Wood Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

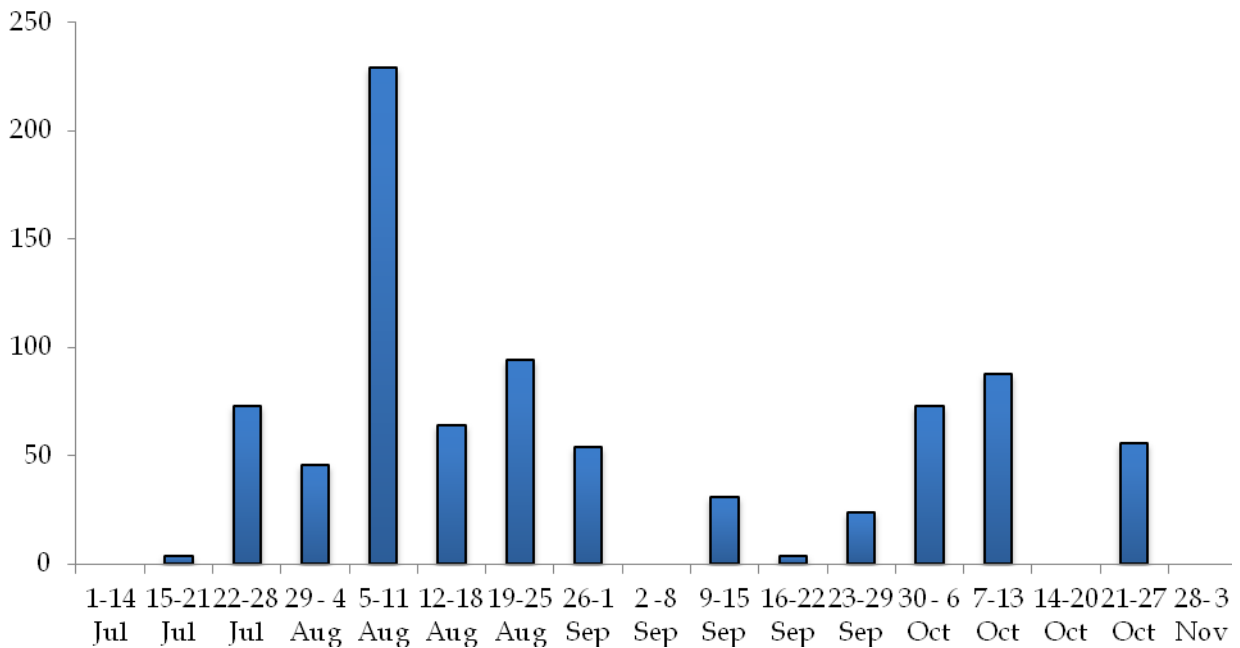


Figure 17. Counts of Great Knot at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

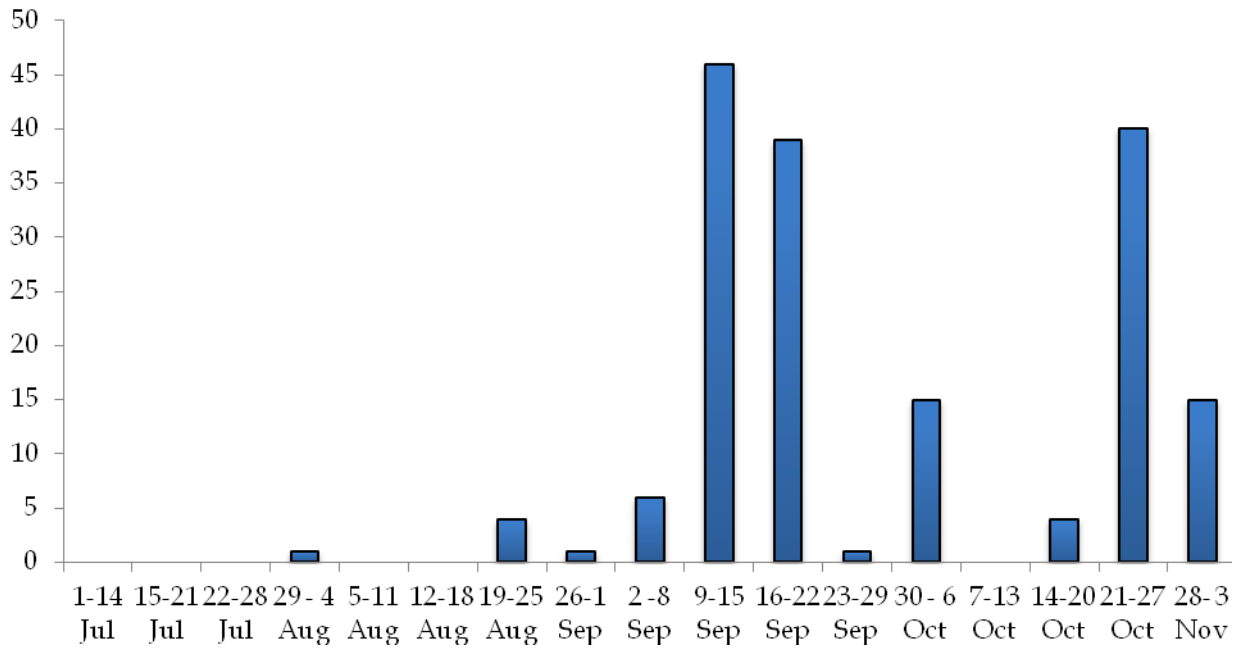


Figure 18. Counts of Red Knot at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

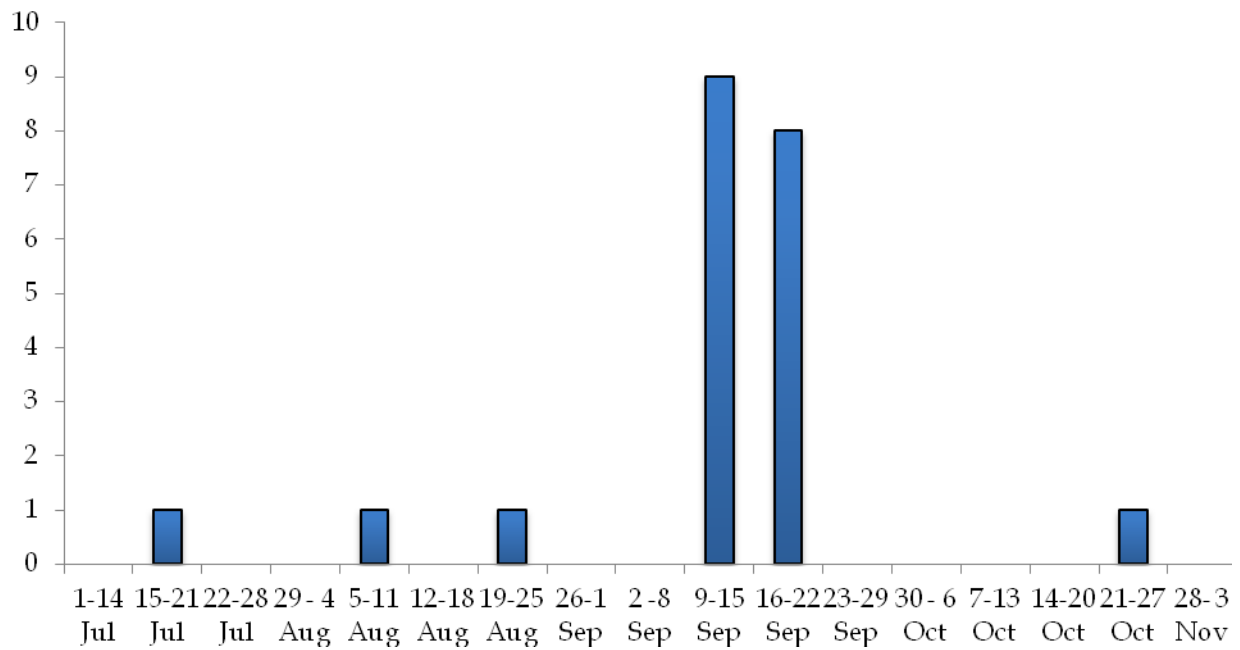


Figure 19. Counts of Broad-billed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, autumn 2011

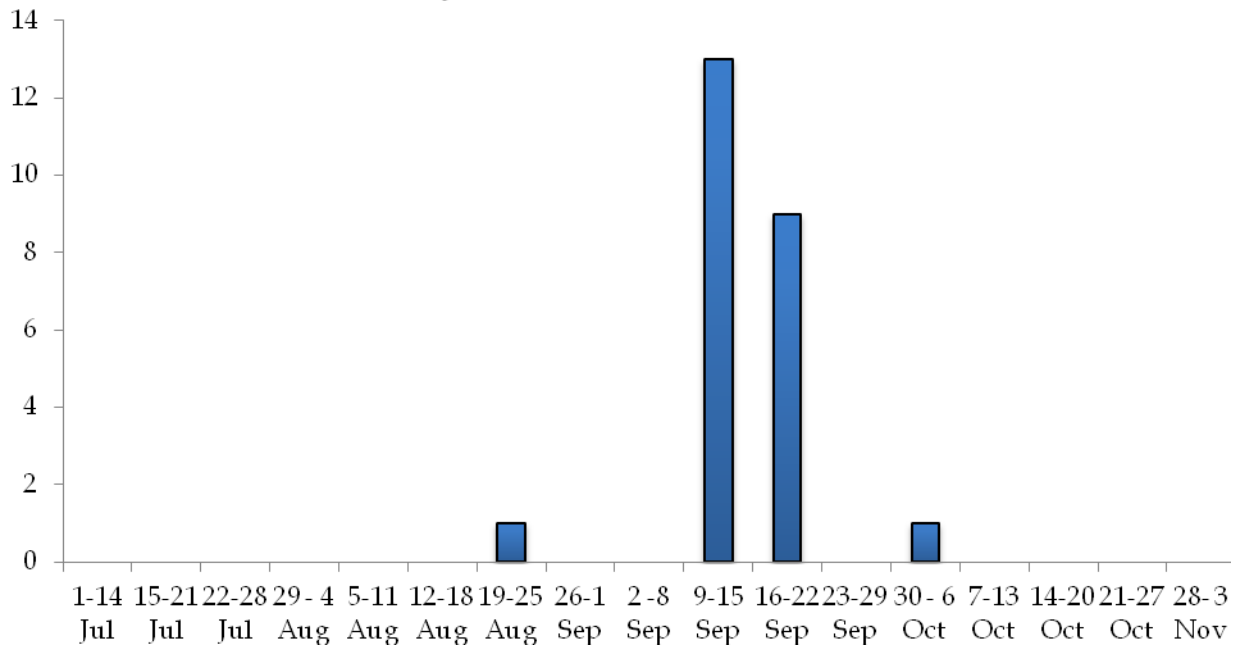


Figure 20. Total number of shorebirds recorded at Mai Po Inner Deep Bay, spring 2012

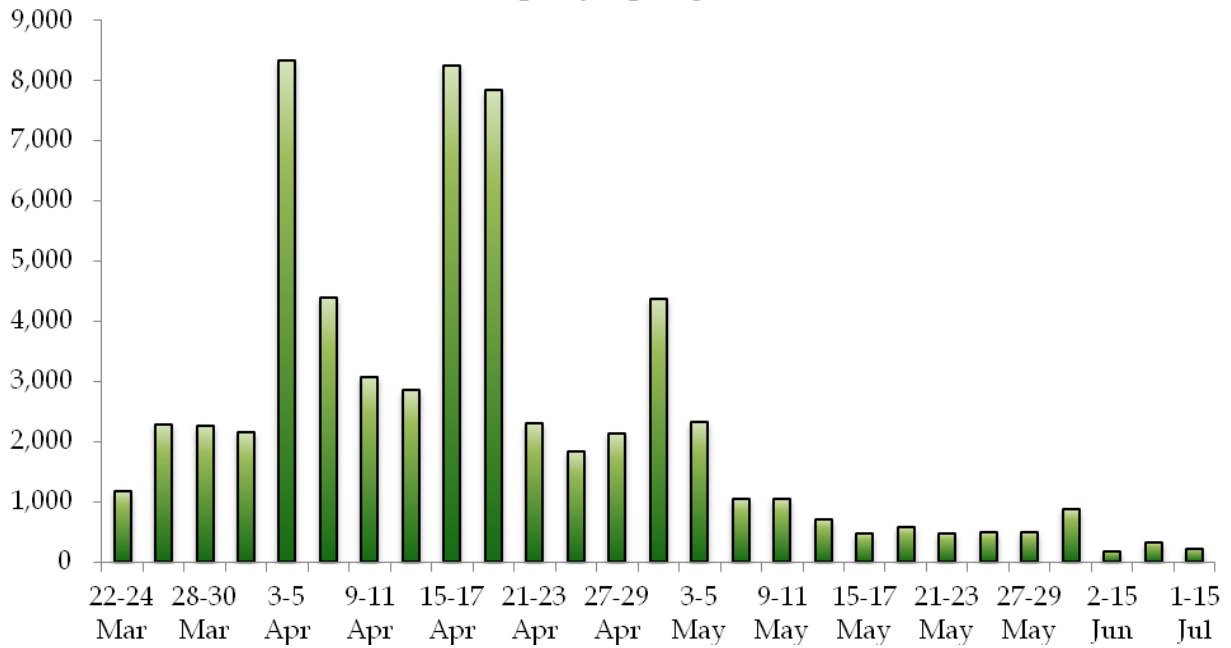


Figure 21. Counts of Pacific Golden Plover at Mai Po Inner Deep Bay Ramsar Site, spring 2012

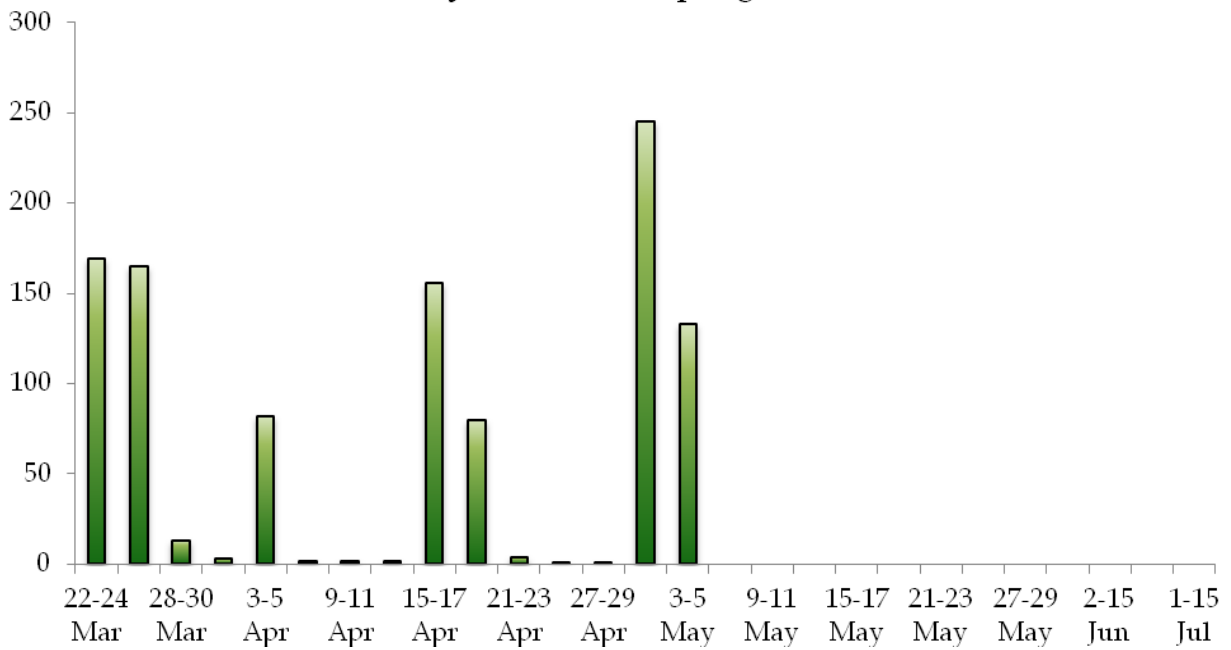


Figure 22. Counts of Lesser Sandplover at Mai Po Inner Deep Bay Ramsar Site, spring 2012

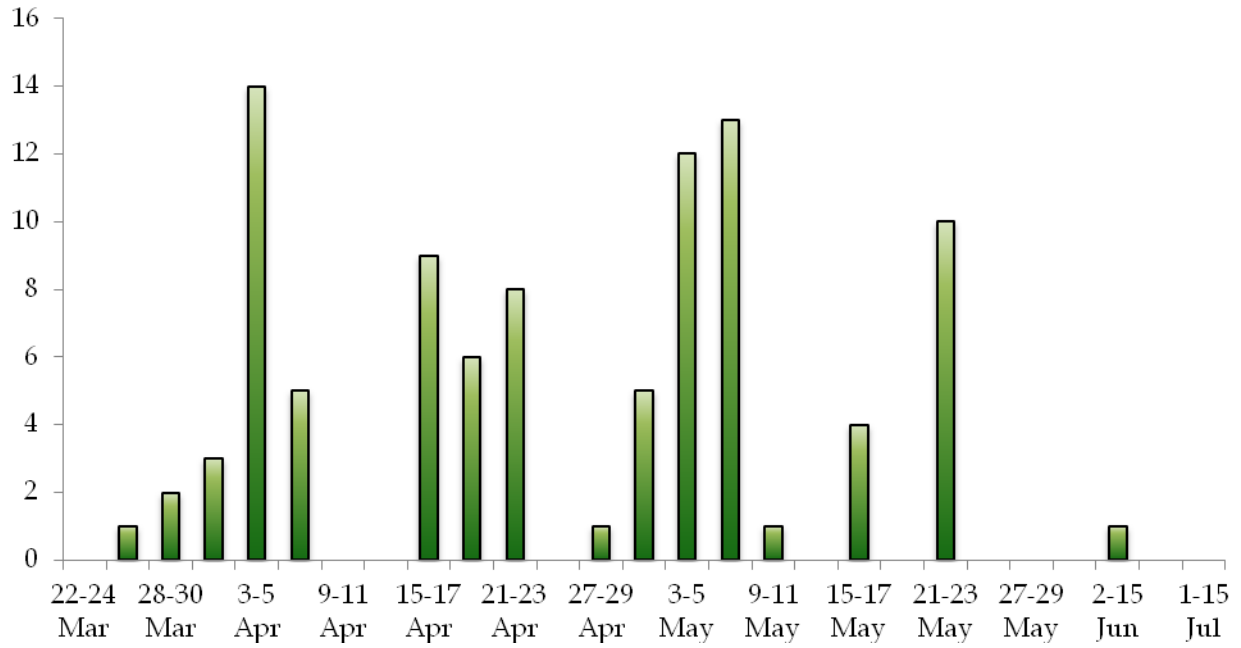


Figure 23. Counts of Greater Sandplover at Mai Po Inner Deep Bay Ramsar Site, spring 2012

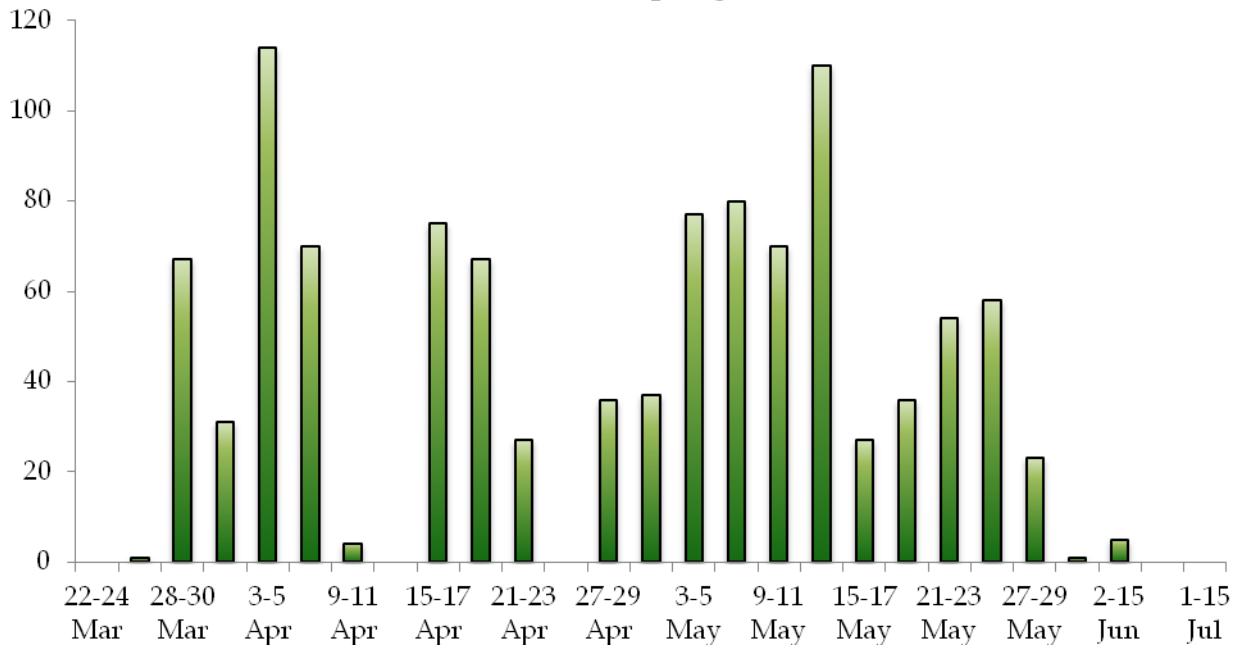


Figure 28. Counts of Common Greenshank at Mai Po Inner Deep Bay Ramsar Site, spring 2012

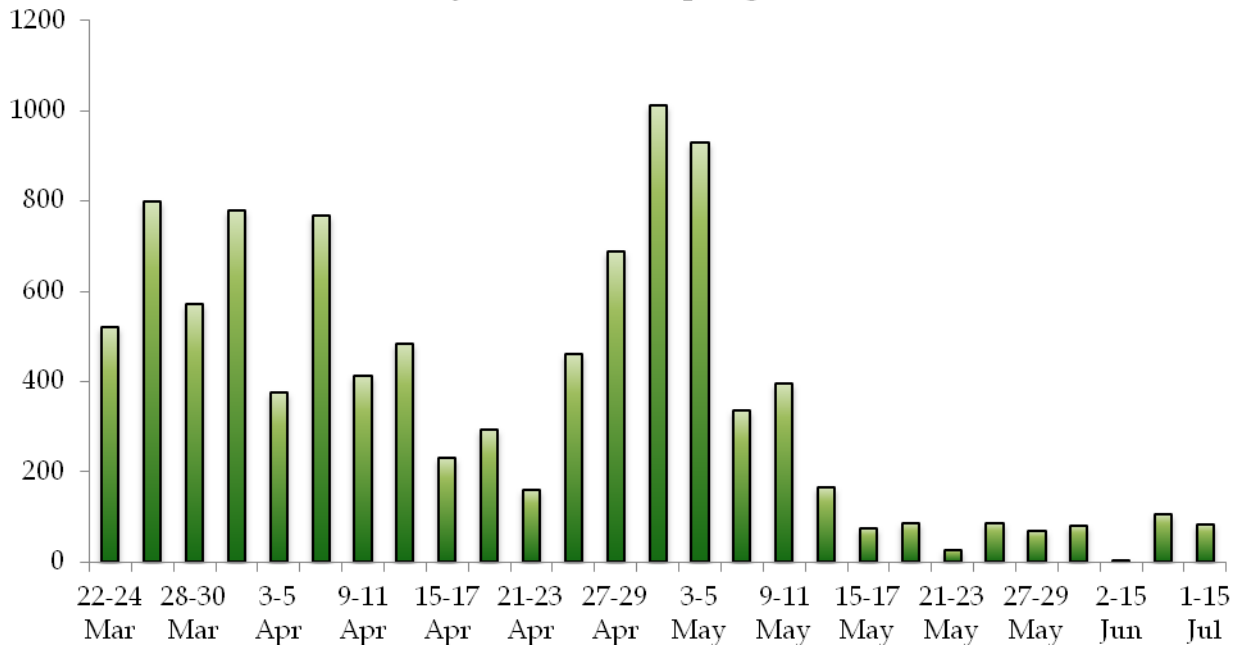


Figure 29. Counts of Terek Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012

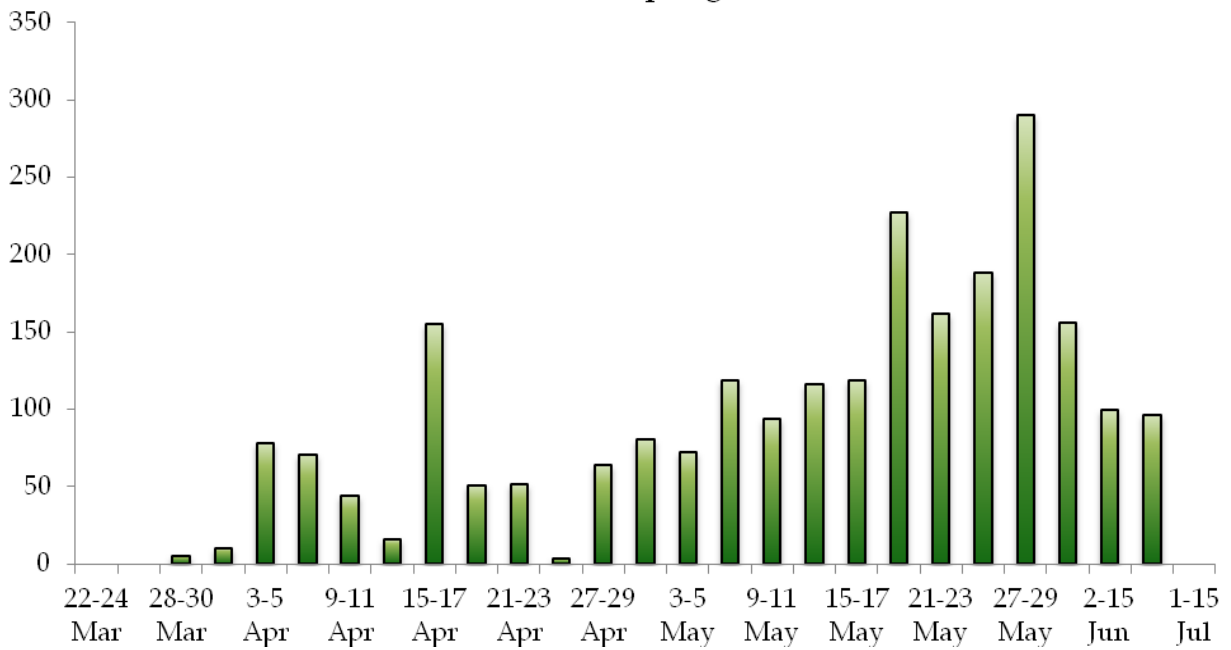


Figure 30. Counts of Grey-tailed Tattler at Mai Po Inner Deep Bay Ramsar Site, spring 2012

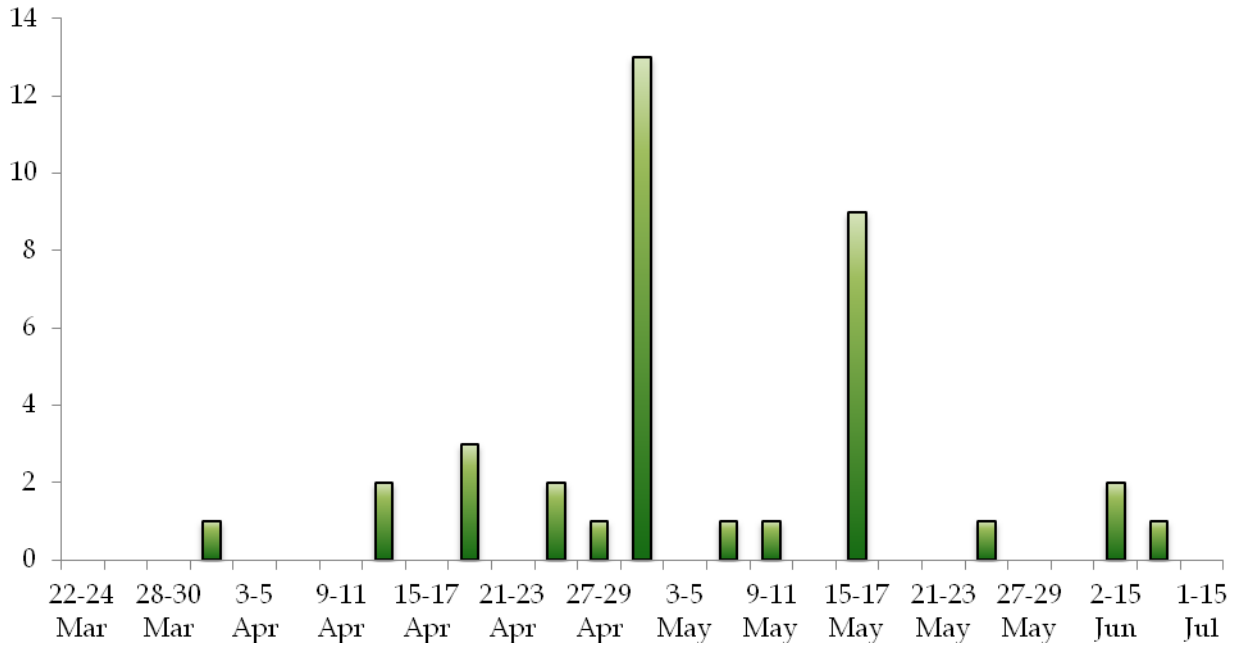


Figure 31. Counts of Ruddy Turnstone at Mai Po Inner Deep Bay Ramsar Site, spring 2012

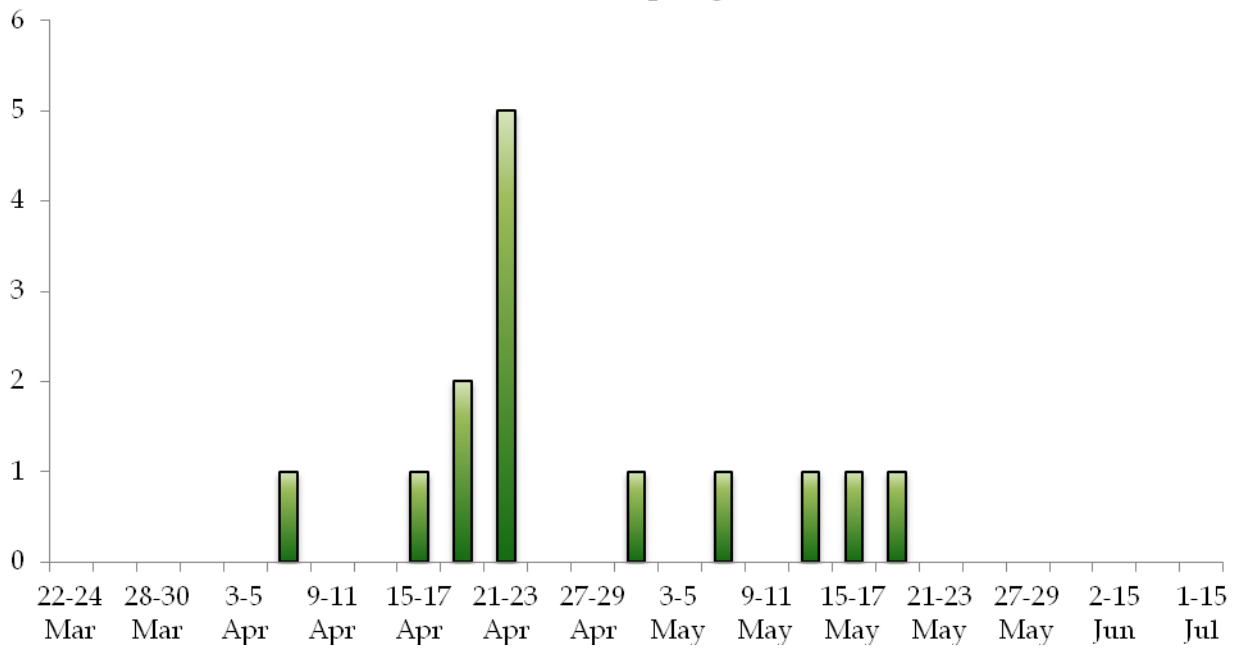


Figure 32. Counts of Asian Dowitcher at Mai Po Inner Deep Bay Ramsar Site, spring 2012

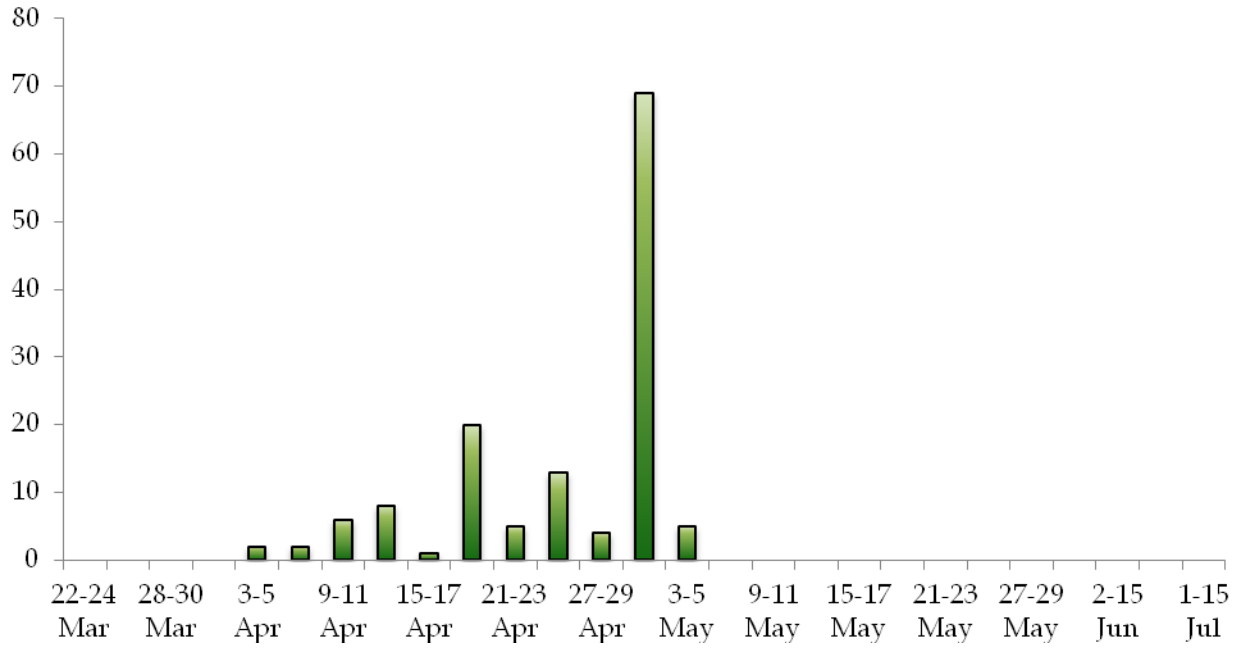


Figure 33. Counts of Red Knot at Mai Po Inner Deep Bay Ramsar Site, spring 2012

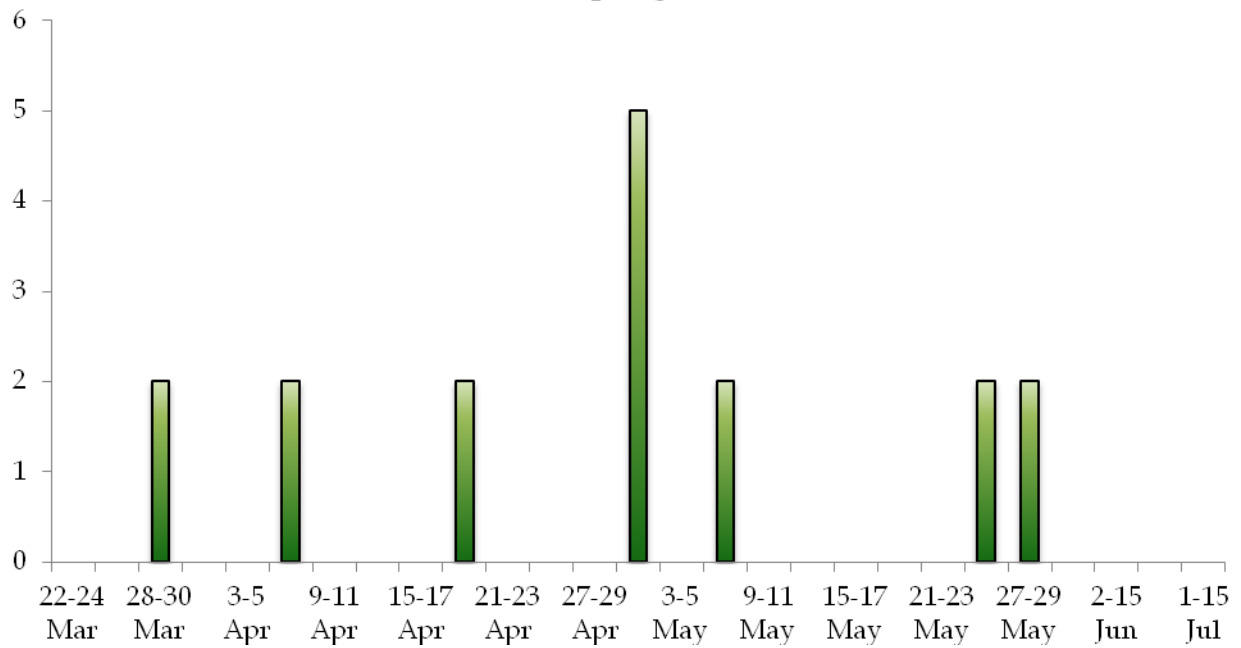


Figure 34. Counts of Great Knot at Mai Po Inner Deep Bay Ramsar Site, spring 2012

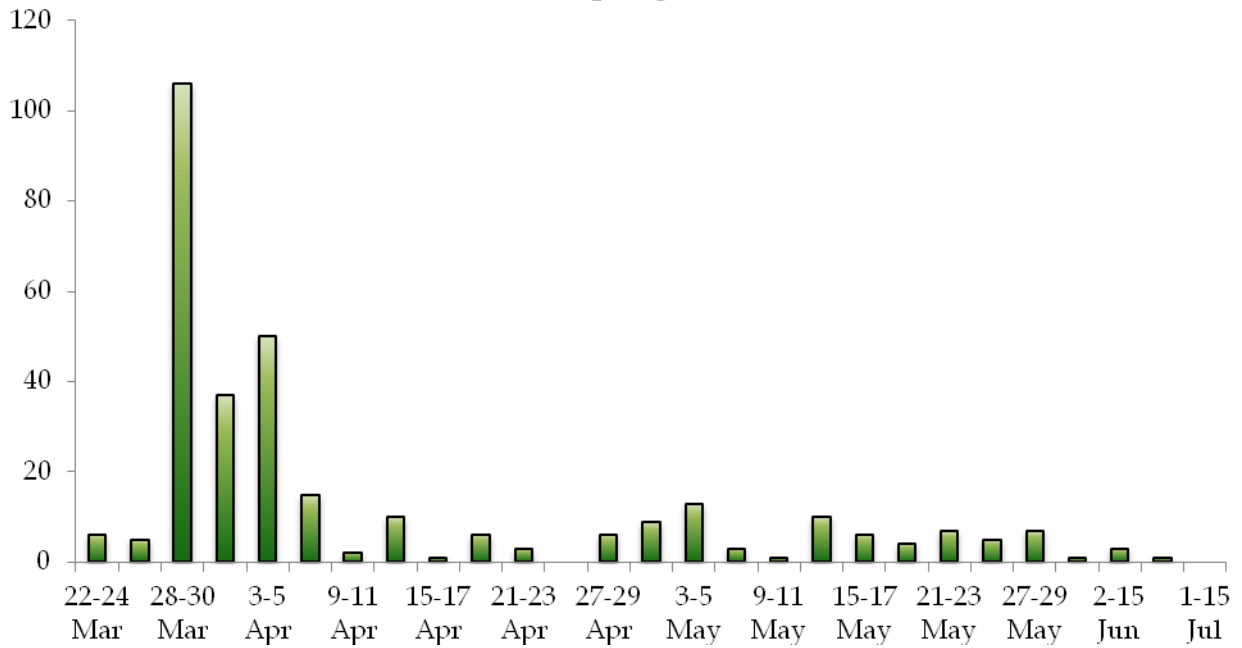


Figure 35. Counts of Red-necked Stint at Mai Po Inner Deep Bay Ramsar Site, spring 2012

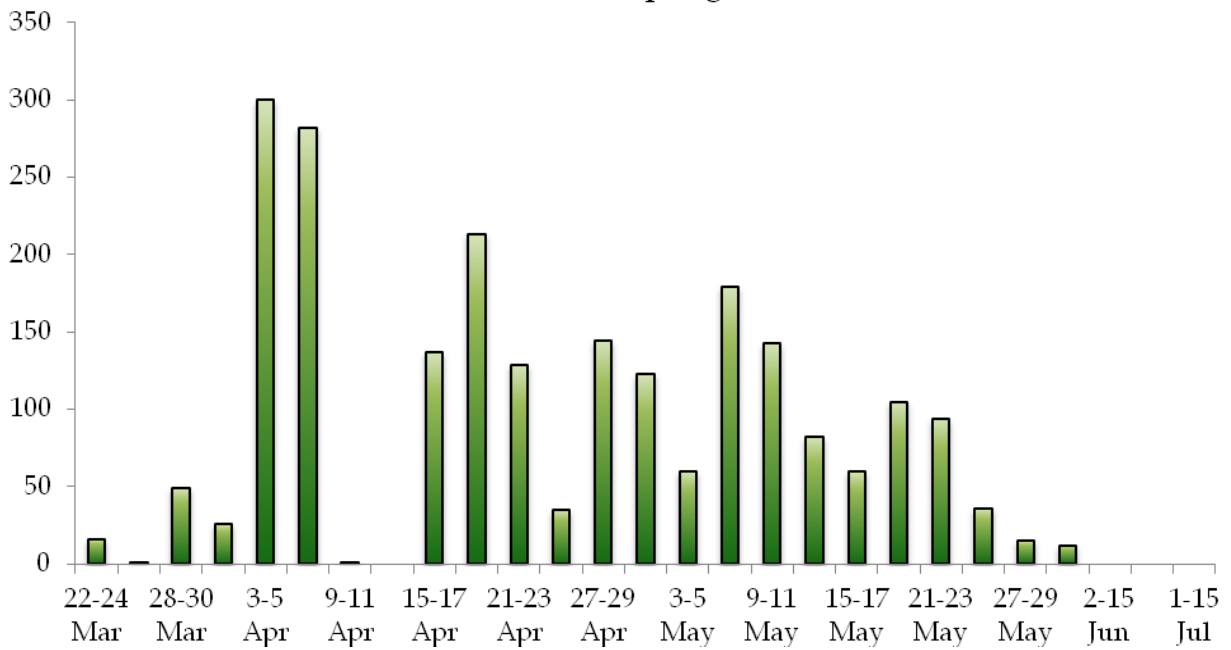


Figure 36. Counts of Sharp-tailed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012

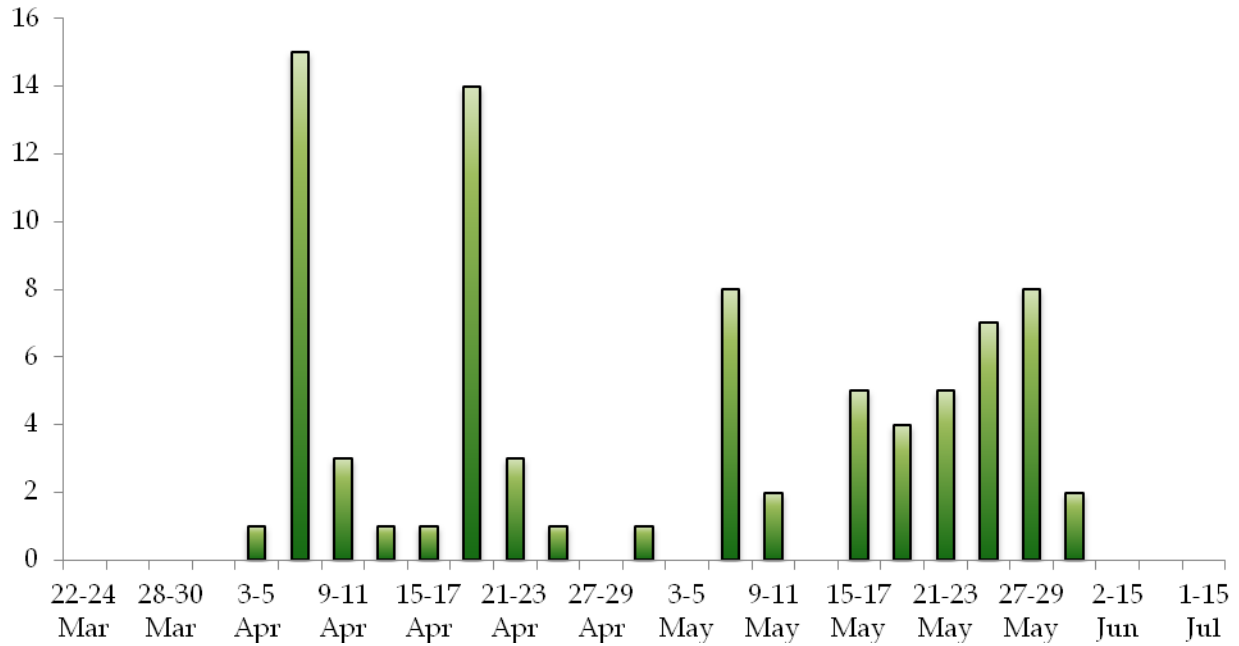


Figure 37. Counts of Curlew Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012

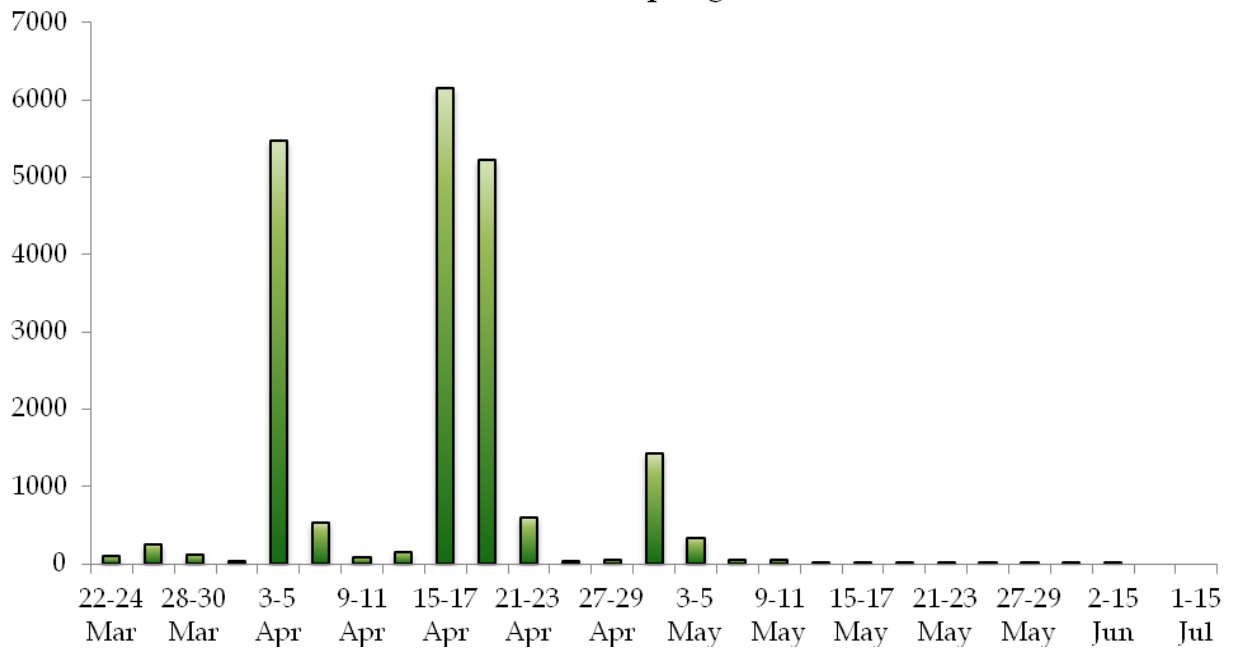
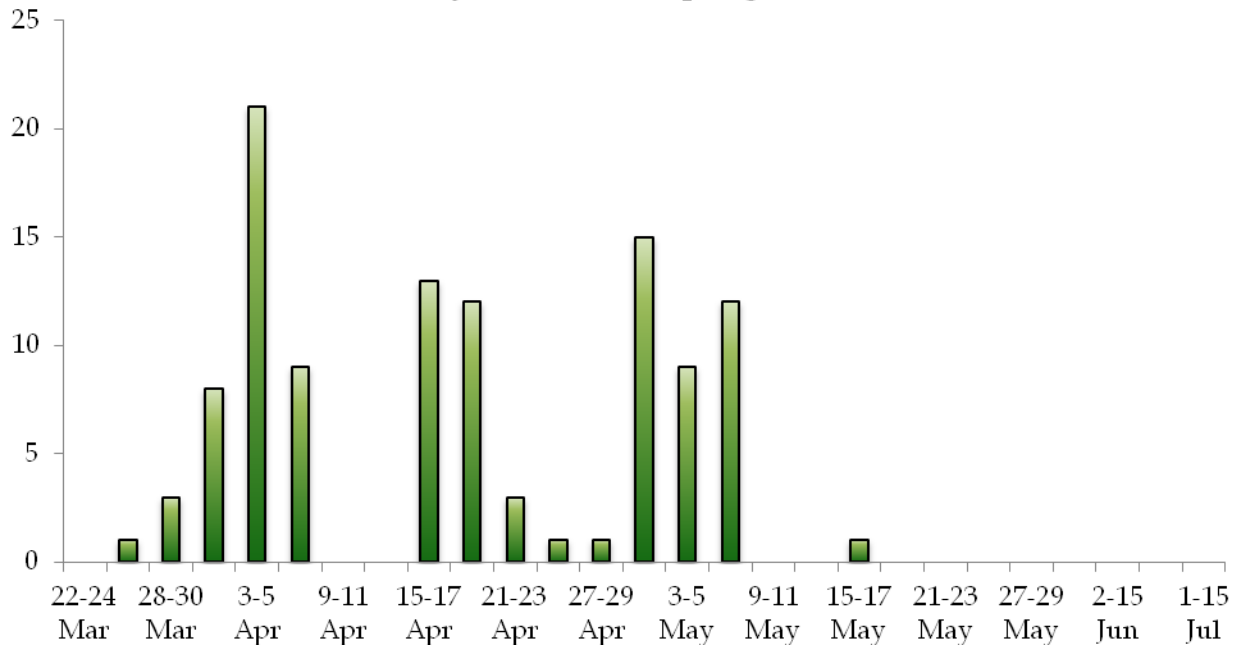


Figure 38. Counts of Broad-billed Sandpiper at Mai Po Inner Deep Bay Ramsar Site, spring 2012



Shorebird Monitoring at the Mai Po Marshes and Inner Deep Bay area

2011-12 Report

Appendix 5

Records of leg-flagged shorebirds in autumn 2011 and
spring 2012



The Hong Kong Bird Watching Society



Agriculture, Fisheries and Conservation Department

Records of leg-flagged shorebirds in autumn 2011 and spring 2012

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|-------------|---------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|---------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 28-Jul-2011 | Yu Yat Tung | Common Greenshank | 25 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Common Redshank | 0 | Yellow | Above | | | | | | | N Western Australia |
| 31-Jul-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Curlew Sandpiper | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Curlew Sandpiper | 75 | Yellow | Above | | | | | | | N Western Australia |
| 31-Jul-2011 | Yu Yat Tung | Curlew Sandpiper | 75 | Orange | Above | | | | | | | Victoria, Australia |
| 31-Jul-2011 | Yu Yat Tung | Curlew Sandpiper | 75 | Yellow | Above | | | | | | | N Western Australia |
| 31-Jul-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Jul-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 25-Aug-2011 | Yu Yat Tung | Whimbrel | 0 | Yellow | Above | | | | | | | N Western Australia |
| 25-Aug-2011 | Yu Yat Tung | Black-tailed Godwit | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 25-Aug-2011 | Yu Yat Tung | Black-tailed Godwit | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 28-Aug-2011 | Yu Yat Tung | Common Redshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 28-Aug-2011 | Yu Yat Tung | Common Redshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 28-Aug-2011 | Yu Yat Tung | Common Greenshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 28-Aug-2011 | Yu Yat Tung | Black-tailed Godwit | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 2-Sep-2011 | Yu Yat Tung | Whimbrel | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|----------------------|---------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 2-Sep-2011 | Yu Yat Tung | Common Redshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 2-Sep-2011 | Yu Yat Tung | Grey-tailed Tattler | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 11-Sep-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 13-Sep-2011 | Samson So | Common Redshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 13-Sep-2011 | Samson So | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Sep-2011 | John and Jemi Holmes | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Sep-2011 | John and Jemi Holmes | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Sep-2011 | John and Jemi Holmes | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Sep-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Sep-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 26-Sep-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 30-Sep-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 30-Sep-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 30-Sep-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 9-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 9-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 9-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 9-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Oct-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Oct-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Oct-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Oct-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|-------------|---------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 24-Oct-2011 | Yu Yat Tung | Great Knot | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|-------------|-------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|-------------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-Oct-2011 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 29-Oct-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 29-Oct-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 22-Nov-2011 | Yu Yat Tung | Dunlin | 0 | Yellow | Above | White | Below | | | | | Sakhalin Island, Russia |
| 16-Dec-2011 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Dec-2011 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Dec-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Dec-2011 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Dec-2011 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Marsh Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Pied Avocet | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|-------------|-------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|---------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 16-Jan-2012 | Yu Yat Tung | Common Redshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 11-Feb-2012 | Yu Yat Tung | Terek Sandpiper | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 12-Feb-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 12-Feb-2012 | Yu Yat Tung | Eurasian Curlew | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 13-Feb-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 13-Feb-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 13-Feb-2012 | Yu Yat Tung | Great Knot | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 25-Mar-2012 | Kinni Ho | Curlew Sandpiper | 50 | Orange | Above | | | | | | | Victoria, Australia |
| 31-Mar-2012 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Common Greenshank | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Eurasian Curlew | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 31-Mar-2012 | Yu Yat Tung | Pied Avocet | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 5-Apr-2012 | Yu Yat Tung | Curlew Sandpiper | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 5-Apr-2012 | Yu Yat Tung | Red-necked Stint | 25 | Yellow | Above | | | | | | | N Western Australia |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|----------------------|---------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|---------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 5-Apr-2012 | Yu Yat Tung | Black-tailed Godwit | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 5-Apr-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 5-Apr-2012 | Yu Yat Tung | Common Greenshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 5-Apr-2012 | Yu Yat Tung | Pied Avocet | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 7-Apr-2012 | Yu Yat Tung | Eurasian Curlew | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 7-Apr-2012 | Yu Yat Tung | Great Knot | 25 | Yellow | Above | | | | | | | N Western Australia |
| 7-Apr-2012 | Kinni Ho | Great Knot | 0 | Yellow | Above | | | | | | | N Western Australia |
| 10-Apr-2012 | Yu Yat Tung | Common Greenshank | 25 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 12-Apr-2012 | Yu Yat Tung | Pied Avocet | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 12-Apr-2012 | Yu Yat Tung | Common Greenshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Great Sand Plover | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Common Greenshank | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Greater Sand Plover | 25 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Curlew Sandpiper | 25 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Red-necked Stint | 50 | Orange | Above | | | | | | | Victoria, Australia |
| 14-Apr-2012 | Yu Yat Tung | Marsh Sandpiper | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Marsh Sandpiper | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Marsh Sandpiper | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 14-Apr-2012 | Yu Yat Tung | Common Greenshank | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 17-Apr-2012 | Yu Yat Tung | Common Greenshank | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 17-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | 100 | Yellow | Above | | | | | | | N Western Australia |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|----------------------|---------------------|------------------|------------------|----------|--------|----------|----------------|----------|--------|----------|---------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 17-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | 75 | Purple clip/ring | Above | | | Blue clip/ring | Above | | | |
| 17-Apr-2012 | John and Jemi Holmes | Sanderling | 0 | Orange | Above | Yellow | Below | | | | | South Australia |
| 17-Apr-2012 | David Diskin | Curlew Sandpiper | 25 | Yellow | Above | | | | | | | N Western Australia |
| 18-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 18-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | 75 | Black | Above | Green | Below | | | | | Gulf of Thailand |
| 18-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | 50 | Yellow | Above | | | | | | | N Western Australia |
| 18-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | 50 | Yellow | Above | | | | | | | N Western Australia |
| 18-Apr-2012 | John and Jemi Holmes | Red-necked Stint | 75 | Yellow | Above | | | | | | | N Western Australia |
| 18-Apr-2012 | John and Jemi Holmes | Curlew Sandpiper | 75 | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | Yu Yat Tung | Black-tailed Godwit | 25 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 19-Apr-2012 | Yu Yat Tung | Curlew Sandpiper | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 19-Apr-2012 | Yu Yat Tung | Pied Avocet | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 19-Apr-2012 | Yu Yat Tung | Marsh Sandpiper | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 19-Apr-2012 | Yu Yat Tung | Marsh Sandpiper | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 19-Apr-2012 | Yu Yat Tung | Marsh Sandpiper | 72 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 19-Apr-2012 | Yu Yat Tung | Curlew Sandpiper | 75 | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | Yu Yat Tung | Curlew Sandpiper | 50 | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | Yu Yat Tung | Curlew Sandpiper | 75 | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|--------------------|------------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|-------------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 19-Apr-2012 | John Allcock | Greater Sand Plover | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Greater Sand Plover | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Red-necked Stint | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 19-Apr-2012 | John Allcock | Red-necked Stint | Not noted | Orange | Above | | | | | | | Victoria, Australia |
| 19-Apr-2012 | John Allcock | Broad-billed Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 20-Apr-2012 | Richard Lewthwaite | Curlew Sandpiper | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 20-Apr-2012 | Richard Lewthwaite | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 26-Apr-2012 | Yu Yat Tung | Red-necked Stint | 50 | Yellow | Above | | | | | | | N Western Australia |
| 26-Apr-2012 | Yu Yat Tung | Common Greenshank | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 26-Apr-2012 | Yu Yat Tung | Pied Avocet | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 26-Apr-2012 | Thomas Chan | Red-necked Stint | 75 | Orange | Above | | | | | | | Victoria, Australia |
| 26-Apr-2012 | Thomas Chan | Red-necked Stint | 50 | Orange | Above | Yellow | Below | | | | | South Australia |
| 27-Apr-2012 | Yu Yat Tung | Common Greenshank | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 27-Apr-2012 | Yu Yat Tung | Common Greenshank | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 30-Apr-2012 | Yu Yat Tung | Common Redshank | 100 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 30-Apr-2012 | Yu Yat Tung | Pied Avocet | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 1-May-2012 | Thomas Chan | Red-necked Stint | 50 | Orange | Above | | | | | | | Victoria, Australia |
| 1-May-2012 | John Allcock | Grey-tailed Tattler | Not noted | Black | Above | White | Below | | | | | Chongming Island, China |
| 1-May-2012 | John Allcock | Red-necked Stint | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 1-May-2012 | John Allcock | Red-necked Stint | Not noted | Orange | Above | | | | | | | Victoria, Australia |
| 1-May-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 1-May-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 1-May-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |

| Date | Observer | Species | Breeding plumage | Right Leg | | | | Left Leg | | | | Ringed Location |
|-------------|---------------|---------------------|------------------|-----------|----------|--------|----------|----------|----------|--------|----------|---------------------|
| | | | | Colour | Position | Colour | Position | Colour | Position | Colour | Position | |
| 1-May-2012 | John Allcock | Curlew Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 4-May-2012 | John Allcock | Greater Sand Plover | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 5-May-2012 | Yu Yat Tung | Black-tailed Godwit | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 5-May-2012 | Yu Yat Tung | Common Greenshank | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Curlew Sandpiper | 50 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Black-tailed Godwit | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Common Greenshank | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Grey Plover | 0 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Black-tailed Godwit | 100 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Grey-tailed Tattler | 75 | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 6-May-2012 | Yu Yat Tung | Red-necked Stint | 100 | Orange | Above | | | | | | | Victoria, Australia |
| 6-May-2012 | Yu Yat Tung | Grey-tailed Tattler | 100 | Yellow | Above | | | | | | | N Western Australia |
| 6-May-2012 | Yu Yat Tung | Red-necked Stint | 75 | Yellow | Above | | | | | | | N Western Australia |
| 6-May-2012 | Yu Yat Tung | Red-necked Stint | 100 | Yellow | Above | | | | | | | N Western Australia |
| 6-May-2012 | Yu Yat Tung | Red-necked Stint | 50 | Orange | Above | | | | | | | Victoria, Australia |
| 6-May-2012 | John Allcock | Grey-tailed Tattler | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 10-May-2012 | Yu Yat Tung | Terek Sandpiper | 100 | Yellow | Above | | | | | | | N Western Australia |
| 11-May-2012 | John Allcock | Terek Sandpiper | Not noted | Yellow | Above | | | | | | | N Western Australia |
| 11-May-2012 | John Allcock | Curlew Sandpiper | Not noted | Orange | Above | | | | | | | Victoria, Australia |
| 24-May-2012 | Ying Hak King | Red-necked Stint | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-May-2012 | Ying Hak King | Red-necked Stint | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |
| 24-May-2012 | Ying Hak King | Curlew Sandpiper | Not noted | White | Above | Yellow | Below | | | | | Hong Kong, China |