RINGING RECOVERIES RESULTING FROM THE MOROCCAN WADER EXPEDITIONS

by Michael W. Pienkowski

This list contains all the ringing recoveries resulting from the Moroccan Wader expeditions thus updating lists published in 1974 (WSG Bull. 11: 25-26) and 1975 (Pienkowski 1975). Brief notes indicate the contribution made by the recoveries to the clarification of migration patterns.

The following expeditions were involved. The University of East Anglia Expedition to Morocco 1971 worked along most of the Atlantic coast in August and September, catching mainly at the salt pans and lagoons between Oualidia and Sidi Moussa (33°00'N, 8°45'W), south of El Jadida and the estuary of Oued Chebeika (28°35'N, 11°35'W) in Tarfaya Province. The UEA Expedition to Tarfaya Province, Morocco 1972 worked at Sidi Moussa in late July and early August and at Puerto Cansado (28°00'N, 12°15'W) in Tarfaya Province in August and September. The Cambridge Sidi Moussa Expedition 1972 in August and the Oaklands Sidi Moussa Expedition 1973 in September both caught birds at Sidi Moussa.

This list was compiled with the help of Derek Stanyard and Francis Argyle, leaders of the Cambridge and Oaklands Expeditions, respectively. We would like to thank Michel Thevenot, in charge of the Moroccan ringing centre at the Institut Scientifique Cherifien in Rabat and the staff of the ringing office of the British Trust for Ornithology at Tring for their help. Rings with the Paris address are normally used in Morocco but because of supply problems special arrangements were made by the Cambridge Expedition to use some British-addressed rings; these are indicated by an asterix in the list below. The manner of recovery is indicated by conventional symbols: V - caught and released again with ring ("controlled"), + shot or killed by humans, X found dead or dying. Where the date of recovery was not given, the date of the reporting letter is given in parenthesis. Birds retrapped by the expeditions near the ringing site are noted only briefly; fuller summaries of these retraps are given by Pienkowski and Knight (1977) and Pienkowski (1976).

Black-winged Stilt Himantopus himantopus

FE 5683 Juv 12.9.72 Sidi Moussa + 18.12.72 Sidi Moussa Plus one within-year retrap at Sidi Moussa.

Ringed Plover Charadrius hiaticula

Reykjavik 834679 Pull 22.6.70 Skipalon, Eyjafjardarsysla, Iceland 65°47'N,18°12'W

V 20.8.71 Sidi Moussa

Stockholm 3013206 Pull 31.5.62 Sodviken, Oland, Sweden 57°02'N,16°54'E

V 10.9.72 Sidi Moussa

SA 837618 Ad. 20.9.71 Sidi Moussa + 9.11.73 baie de Salmenelles, Calvados, France

49°16'N,0°14'W

SA 3629(7)2 Ad. 20.8.71 Sidi Moussa + 29.8.76 Brouage, Charente-Maritime, France

45°52'N,1°04'W

SA 387478 Ad. 18.9.71 Sidi Moussa X 4.1.76 Sidi Bennour, El Jadida, Morocco

32°39'N,8°26'W

Plus 4 within-year and 3 subsequent-year retraps in Autumn at Sidi Moussa.

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A more varied pattern from five recoveries would be difficult to arrange: there is evidence of the presence in autumn of birds from the breeding populations of both Iceland and continental Scandinavia; a bird presumably on passage through France; another wintering near Sidi Moussa but one apparently changing wintering areas from NW Africa to France.

Kentish Plover Charadrius alexandrinus

SA 505107 Ad. 16.8.73 Sidi Moussa + 11.1.74 el Khemis des Zemara, El Jadida, Morocco 32°38'N,8°42'W

Plus 35 within-year and 9 subsequent-year retraps in autumn at Sidi Moussa. Some Kentish Plovers are resident in the Sidi Moussa area, breeding, moulting and wintering in the vicinity; the relative proportions to these and others present only at particular seasons is vnknown.

Knot Calidris canutus

8 within-year retraps only. The migration of this species has been analysed by Dick et al (1976).

Little Stint Calidris minuta

7 within-year and 3 subsequent-year retraps in autumn at Sidi Moussa.

Curlew Sandpiper Calidris ferruginea

SA 240700 26.8.69 Rades-La Goulette, Tunis, Tunisia 36°52'N,10°18'E V 25.8.72 Puerto Cansado Arnhem B-127484 Juv 1.10.70 Vlieland, Holland 53°16'N,4°59'E V 25.8.72 Puerto Cansado Stockholm 3208554 Juv 26.8.72 Ottenby, Oland, Sweden 56°12'N,16°24'E V 8.9.72 Sidi Moussa Stockholm 3456598 Juv 10.9.65 Ottenby, Oland, Sweden 56°12'N,16°24'E V 11.9.72 Sidi Moussa Radolfzell G272655 ? 30.8.70 Roxheim (details not yet received) V 11.9.72 Sidi Moussa

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Curlew Sandpiper (cont)
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V 7.11.73 Serenni, Banc d'Arguin, Mauritania 19°40'N,16°21'W JA 300100 Juv 5.9.73 Sidi Moussa * BX 14525 Ad 10.9.72 Sidi Moussa V 13.8.73 Sidi Moussa V 19.11.73 Cap Timiris, Banc d'Arguin, Mauritania 19°22'N,16°30'W + 24.8.75 near Genichesk, Khersen, Ukraine SSR 46°15'N,34°47'E * BX 14348 Ad 8.9.72 Sidi Moussa + 23.8.75 near Zolochev, Kharkov, Ukraine SSR 50°17'N,36°00'E * BX 14330 Ad 8.9.72 Sidi Moussa Plus 1 control with illegible ring at Sidi Moussa on 10.9.72; and 8 within-year and 2

subsequent-year retraps. An analysis of Curlew Sandpiper migration is advanced in preparation (Wilson et al. in prep).

Dunlin Calidris alpina

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21.7.71 Amager, Kobenhavn, Sjelland, Denmark 55°38'N,12°34'E
   Copenhagen 8120206
                                                                                     V Juv 21.9.71 Sidi Moussa
d 64<sup>0</sup>05'N,22<sup>0</sup>40'W
  Reykjavik 919388 Juv 31.8.71 Gerdar, Gullbringusysla, Iceland
                                                                                         21.9.71 Sidi Moussa
51 21'N, 0 54'E
                                                                                     v
  London
                 BJ71204 Juv9.10.71 Harty, Sheppey, Kent, England
                 V 25.8.72 Puerto Cansado
8105156 Juv 17.8.70 Makkevika, Giske, More & Romsdal, Norway 62°31'N,6°02'E
  Stavanger
                V 9.9.72 Puerto Cansado BB72754 Juv 18.9.71 West Kirby, Wirral, Cheshire, England 53°23'N,3°19'W
  London
                                                                                        9.9.72 Puerto Cansado
57040'N,3006'W
                BB53240 Ad 24.7.72 Garmouth, Moray, Scotland
  London
               V 7.9.72 Sidi Moussa
BB90860 Ad 15.7.72 Wolferton, King's Lynn, Norfolk, England 52 50'N,0 26'E
  London
               BR70617 Ad 17.8.73 Rock, Padstow, Cornwall, England 50°32'N,4°56'W V 30.8-73 Sidi Moussa BB65656 Juv 21.8.73 Radipole, Weymouth, Dorset, England 50°36'N,2°28'W V 30.72 Sidi Moussa BB65656 Juv 21.8.73 Radipole, Weymouth, Dorset, England 50°36'N,2°28'W
  London
  London
                                                                                     V 3.9.73 Sidi Moussa
                                                       +13.8.72 Etang de Thau, Hérault, Fra
43°23'N,3°36'E
  SA 387671 Ad 21-9.71 Sidi Moussa
                                                                                                    France
                                                                    Baie des Veys, Manche, France
49°19'N,1°09'W
  SA 387562 Juv 20.9.71 Sidi Moussa
                                                        +12.8.72
                                                                    Ulverston, Morecambe Bay, England
Le Crotoy, baie de Somme, France
50°13'N,1°37'E
  SA 505378 Juv
                      1.9.73
                                                        V19.5.74
                                 Sidi Moussa
  SA 324375 Ad
                      8.9.71
                                 Qued Chebeika
                                                        +13.8.74
                                                                    Amager, Sjaelland, Denmark
55°38'N,12°34'E
Cap Horno, St. Valery-sur-Somme, France
50°11'N,1°38'E
  JA 270900 Ad
                      8.9.72
                               Puerto Cansado
                                                       V10.7.74
  JA 270681 Juv 7.9.72 Puerto Cansado
                                                       +30.7.74
                                                                    Moeze, Charente-Maritime, France
45°54'N,1°02'E
  JA 270655 Ad 25-8.72 Puerto Cansado
                                                        +17.3.76
                                                                    Magor, Newport, Monmouth, Wales 51 34'N,2048'W
  JA 270638 Ad 25.8.72 Puerto Cansado
                                                       V 1.5.76
                                                       ?(12.4.77) St. Valery-sur-Somme, France
50°11'N,1°38'E
  JA 387325 Ad 16.9.71 Sidi Moussa
                                                       V 7.5.77 Point of Air, Flintshire, Wales 53°21'N,3°19'W
* BX 14009 Juv 6.9.72 Sidi Moussa
                                                       V 1.5.76 Magor, Newport, Monmouth, Wales 51°34'N,2°48'W
* BX 14562 Ad 10.9.72 Sidi Moussa
                                                       V 6.5.78 Peterstone, Wentlooge, Newport, Monmouth Wales 51°30'N,5°03'W
  SA 503212 Ad 27.8.73 Sidi Moussa
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Plus 67 within-year and 11 subsequent-year and one two-year retraps in autumn in Morocco. The new reports support the conclusions of Pienkowski and Dick (1975) that Dunlins in Morocco are mainly <u>C.a.schinzii</u> including birds from both Iceland and Europe together with a much smaller proportion of birds of the nominate race (<u>C.a.alpina</u>). The contribution of the Greenland race C.a.arctica remains unclear

The recoveries of birds ringed in Morocco fall into three groups. One and probably a second March recovery ir France are likely to represent the early northward migration of European schinzii (c.f. Redshank). The series from the West coast of Britain (1 May (twice), 6 May in S. Wales, 7 May in N. Wales, 19 May in Morecambe Bay) give a good indication of the timing of migration of probable Icelandic birds. The early July Danish bird and those in France from late July to mid-August could include birds from various breeding grounds.

Ruff Philomachus pugnax

One within-year retrap only.

Bar-tailed Godwit Limosa lapponica

FE 5674 Juv 9.9.72 Sidi Moussa + 22.10.72 Sidi Moussa Plus one within-year retrap Sidi Moussa.

Redshank Tringa totanus

CM 1414 17.12.69 Sidi Moussa y 18.9.71 Sidi Moussa GB 98077 Juv 18. 9.71 Sidi Moussa + 28.1.72 Sidi Moussa 6.2.72 GB 98091 Juv 18. 9.71 Sidi Moussa Sidi Moussa GB 98013 Juv 16. 9.71 Sidi Moussa 5.3.72 Sidi Moussa + 25.2.73 Sidi Moussa GC 87093 Ad 17. 9.72 Sidi Moussa Berrechid, Casablanca, Morocco 33°16'N,7°35'W Marais de la Macta, Algeria 35°44'N,0°07'W GB 98006 Juv 16. 9.71 Sidi Moussa + 15-3-73 GC 87041 Ad 9. 9.72 Sidi Moussa + 16.3.73 V 16.9.72 V 16.9.72 Sidi Moussa + 21.3.73 St. Bonnet sur Gironde, France 45°21'N,0°40'W + 25.11.73 Berrechid, Casablanca, Morocco 33°17'N,7°35'W + 10.3.74 Oualidia, El Jadida, Morocco 32°44'N,9°02'W GB 98083 Ad 17. 9.71 Sidi Moussa Sidi Moussa GB 98093 Ad 18. 9.71 Sidi Moussa GB 98066 Ad 17. 9.71 Sidi Moussa GB 98557 Ad 20. 9.71 Sidi Moussa V 14.8.73 Sidi Moussa Labatud, Maubourquet, Hautes-Pyrénées, France + 14.3.74 + 14.1.73 Sidi Moussa + 4.1.76 El Jadida, Morocco 33 15 N, 0 Jo ... X 30.5.77 Duivenvoorde, Voorschoten, Zuid Hollande, Holland 52 07 N, 40 25 E 10 2 75 le Verdon, Gironde, France 45 33 N, 10 04 W 45 24 N, 0 54 E GB 59261 Ad 2. 8.72 Fidi Moussa GB 98051 Ad 17. 9.71 Sidi Moussa GB 98123 Ad 20. 9.71 Sidi Moussa GC 87135 Ad 30. 8.73 Sidi Moussa + 19.3.75 le Verdon, Gironde, France 45°33'N,1 GB 63749 Ad 14. 8.73 Sidi Moussa + 14.3.76 Valeyrac, Gironde, France 45°24'N,0 Plus 21 within-year, 11 subsequent-year and 6 two-year retraps in autumn at Sidi Moussa. For the Redshank there is a remarkable contrast between the lack of previously-ringed birds caught by the expeditions and the number of subsequent recoveries of expedition-ringed birds. This is presumably due to a lack of ringing (at least before the time of the expeditions) in the other areas frequented by this population and the occurrence of shooting along parts of the route.

Many Redshanks clearly remain to winter in the vicinity as demonstrated by six recoveries between November and February. There appears to be a rapid northward passage in March with recoveries on 5, 10, 15 March in Morocco, 16 March in Algeria and 14, 14, 19, 21 March in France. The bird recovered in late May in Holland had been dead for some time and was in a state of decomposition.

Earlier ringing results, wing and bill measurements and moulting pattern suggested that Moroccan Redshanks come from breeding areas on the Baltic and east North Sea coasts (Pienkowski 1975, Pienkowski et al. 1976). The distribution and timing of spring recoveries now available are compatible with this.

Greenshank Tringa nebularia

FE 5553 Ad 16.9.71 Sidi Moussa X 13.5.72 Saravesi, Laukaa, Vaasa, Finland 62°25'N,25°58'E GB 63724 Ad 12.8.73 Sidi Moussa + 19.1.74 Sidi Moussa 32°44'N,9°02'W Plus 3 within-year retraps in autumn at Sidi Moussa.

Common Tern Sterna hirundo

Arnhem K 289261 23.7.71 Veluwemeer Noord, Holland V Juv 8.9.71 Oued Chebeika

Black Tern Chlidonias niger

BX 14083 Ad 6.9.72 Sidi Moussa + 10.12.72 M'Bour, Senegal 14⁰22'N,16⁰54'W Plus 8 within-year retraps at Sidi Moussa.

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