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**RECORDS OF MALLOPHAGA FROM PACIFIC BIRDS**

by A. Binion Amerson, Jr. and K. C. Emerson

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# RECORDS OF MALLOPHAGA FROM PACIFIC BIRDS<sup>1</sup>

by A. Binion Amerson, Jr.<sup>2</sup>, and K. C. Emerson<sup>3</sup>

## INTRODUCTION

The Pacific Ocean Biological Survey Program (POBSP) of the Smithsonian Institution made 1,693 Mallophaga collections from 66 bird species on 25 islands and at sea in the Central, Northern and Southeastern Pacific from 1963 through 1969. This paper presents a listing of the hosts, the Mallophaga, and the collection localities.

The 66 host species belong to 5 orders and 13 families of sea, shore, and land birds. From these hosts were collected 96 Mallophaga species, belonging to 2 suborders, 2 families, and 26 genera.

Several sources were used in assembling the common and scientific names of the bird hosts. The names used in the American Ornithologists' Union's Checklist of North American Birds, 1957, 5th edition, were followed for species occurring in North America. Seabird names agree with those which appear in Watson (1966) and King (1967). Taxonomic order follows that of Peters (1931, 1934, and 1937) with the exception of the Procellariiformes, which follow Alexander *et al.* (1965), the Anseriformes, which follow Delacour (1954, 1959), and the Charadriiformes, which follow Bock (1958).

Mallophaga classification follows that of Hopkins and Clay (1952 and 1955), Emerson (1962, 1964a, and 1964b), and Ryan and Price (1969a and 1969b).

## ACKNOWLEDGEMENTS

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## PART I: HOST CHECKLIST

CENTRAL PACIFIC OCEAN

## PROCELLARIIFORMES

## Diomedeidae

Diomedea nigripes Black-footed AlbatrossDocophoroides pacificus ferrisi Harrison, 1937

Midway Atoll

Pacific Ocean, at sea:

21°05' N x 158°31' W	17°35' N x 167°14' W
20°50' N x 158°52' W	17°27' N x 167°24' W
20°48' N x 158°52' W	17°20' N x 164°12' W
20°23' N x 161°07' W	17°19' N x 167°40.5' W
20°00' N x 158°06' W	17°12.5' N x 167°55' W
19°28' N x 162°10.7' W	16°38' N x 169°38' W
19°19.5' N x 163°47.8' W	14°64' N x 169°44' W
19°11.7' N x 164°15' W	14°05' N x 170°11' W
18°54' N x 164°13' W	

Episbates pederiformis (Dufour, 1835)

Pacific Ocean, at sea:

21°05' N x 158°31' W	17°20' N x 164°12' W
20°50' N x 158°52' W	17°19' N x 167°40.5' W

Paraclisis confidens (Kellogg, 1899)

Midway Atoll

Pacific Ocean, at sea:

21°05' N x 158°31' W	17°27' N x 167°24' W
20°50' N x 158°52' W	17°20' N x 164°12' W
20°48' N x 158°52' W	17°19' N x 167°40.5' W
20°23' N x 161°07' W	17°12.5' N x 167°55' W
19°28' N x 162°10.7' W	17°12' N x 167°55' W
19°11.7' N x 164°15' W	16°38' N x 169°38' W
18°74' N x 146°31' W	14°46' N x 169°44' W
17°33' N x 167°14' W	14°05' N x 170°11' W

Procellariophaga affinis (Piaget, 1890)

Midway Atoll

Diomedea immutabilis

Laysan Albatross

Docophoroides pacificus subsp.

French Frigate Shoals, East Island

Kure Atoll, Green Island

Harrisoniella densa (Kellogg, 1896)

Kure Atoll, Green Island

Paraclisis giganticola (Kellogg, 1896)  
Kure Atoll, Green Island

Perineus tenuipenalis Keler, 1958  
Pacific Ocean, at sea:  
10°19.5' N x 163°47.8' W

Procellariphaga affinis (Piaget, 1890)  
Kure Atoll, Green Island

Procellariidae

Fulmarus glacialis Fulmar  
Perineus nigrolimbatus (Giebel, 1874)  
Kure Atoll, Green Island

Pterodroma phaeopygia Dark-rumped Petrel  
Halipeurus noctivagus Timmermann, 1960  
Pacific Ocean, at sea:  
16°47' N x 172°13' W

Naubates pterodromi Bedford, 1930  
Pacific Ocean, at sea:  
16°47' N x 172°13' W

Pterodroma externa White-necked Petrel  
Ancistrona vagelli (J.C. Fabricius, 1787)  
Pacific Ocean, at sea:  
09°07' N x 150°34' W

Halipeurus kermadecense (Johnston and Harrison, 1912)  
Pacific Ocean, at sea:

22°06' N x 151°00' W	14°19' N x 171°24' W
18°51' N x 151°00' W	14°04' N x 168°08' W
18°50' N x 151°00' W	13°53' N x 173°01' W
18°07' N x 166°02' W	12°20' N x 170°13' W
18°05' N x 151°00' W	09°00' N x 155°00' W
17°53' N x 151°00' W	08°54' N x 162°58' W
16°36' N x 171°21' W	08°29' N x 162°33' W
16°33' N x 171°55' W	08°12' N x 162°12' W
16°25' N x 171°31' W	

Procellariphaga sp.  
Pacific Ocean, at sea:  
18°07' N x 166°02' W



Naubates damma Timmermann, 1961

Pacific Ocean, at sea:

18°40' N x 151°00' W	09°07' N x 150°34' W
16°33' N x 170°55' W	09°00' N x 155°00' W
14°04' N x 168°08' W	

Trabeculus hexakon (Waterston, 1914)

Pacific Ocean, at sea:

18°50' N x 151°00' W	13°53' N x 173°01' W
18°07' N x 166°02' W	12°20' N x 170°13' W
17°53' N x 151°00' W	09°07' N x 150°34' W
16°36' N x 171°21' W	09°00' N x 155°00' W
16°33' N x 170°53' W	08°29' N x 162°33' W
14°32' N x 172°25' W	08°12' N x 162°12' W
14°04' N x 168°08' W	

Pterodroma rostrata

Tahiti Petrel

Ancistrona vagelli (J. C. Fabricius, 1787)

Pacific Ocean, at sea:

03°50' N x 178°09' E

Halipeurus marquesanus (Ferris, 1932)

Pacific Ocean, at sea:

03°50' N x 178°09' E

Pterodroma hypoleuca

Bonin Petrel

Halipeurus pelagicus (Denny, 1842)

Pacific Ocean, at sea:

15°38' N x 169°55' W

Halipeurus theresae Timmermann, 1969

Kure Atoll, Green Island

Pacific Ocean, at sea:

20°34' N x 160°13' W	15°06' N x 172°58' W
16°52' N x 168°50' W	14°19' N x 172°39' W
15°44' N x 172°20' W	14°05' N x 172°50' W
15°38' N x 169°55' W	07°18' N x 159°30' W

Procellariophaga enigki (Timmermann, 1963)

Kure Atoll, Green Island

Trabeculus hexakon (Waterston, 1914)

Kure Atoll, Green Island

Laysan Island

Pacific Ocean, at sea:

16°52' N x 168°50' W	15°06' N x 172°58' W
16°14' N x 171°51' W	14°05' N x 172°50' W

Pterodroma neglecta

Kermadec Petrel

Ancistrona vagelli (J. C. Fabricius, 1787)Pacific Ocean, at sea:  
09°00' N x 155°00' WHalipeurus kermadecense (Johnston and Harrison, 1912)Pacific Ocean, at sea:  
13°54' N x 168°21' WTrabeculus fuscoclypeatus (Johnston and Harrison, 1912)Pacific Ocean, at sea:  
13°54' N x 168°21' WPterodroma alba

Phoenix Petrel

Halipeurus heraldicus Timmermann, 1960Christmas Atoll, Motu Upua Island  
Johnston Atoll, Sand Island  
Phoenix IslandProcellariophaga sp.

Johnston Atoll, Sand Island

Trabeculus hexakon (Waterston, 1914)

Phoenix Island

Pterodroma cooki cooki

Cook's Petrel

Halipeurus leucophryna Timmermann, 1960

Pacific Ocean, at sea:

18°42' N x 164°39' W	13°46' N x 172°56' W
16°59' N x 164°07' W	13°30' N x 165°06' W
16°42' N x 172°36' W	13°18' N x 170°09' W
14°12' N x 169°08' W	09°00' N x 155°00' W

Halipeurus pelagicus (Denny, 1842)Pacific Ocean, at sea:  
06°04' N x 154°56' WTrabeculus hexakon (Waterston, 1914)

Pacific Ocean, at sea:

18°42' N x 164°39' W	13°30' N x 165°06' W
16°59' N x 164°07' W	12°31' N x 166°18' W
16°42' N x 172°36' W	09°00' N x 155°00' W

Longimenopon sp.Pacific Ocean, at sea:  
16°14' N x 154°56' WBulweria bulwerii

Bulwer's Petrel

Halipeurus bulweriae Timmermann, 1960

Phoenix Island

Pacific Ocean, at sea:

20°06' N x 161°52' W	19°52' N x 162°47' W
20°00' N x 162°19' W	

Puffinus carneipes

Pale-footed Shearwater

Naubates harrisoni Bedford, 1930

Pacific Ocean, at sea:

17°28' N x 170°31' W

Puffinus pacificus

Wedge-tailed Shearwater

Ancistrona vagelli (J. C. Fabricius, 1787)

Kure Atoll, Green Island

Pacific Ocean, at sea:

13°30' N x 168°21' W

06°35' N x 152°54' W

06°37' N x 152°49' W

Halipeurus mirabilis Thompson, 1940

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Phoenix Island

Pacific Ocean, at sea:

23°24' N x 166°25' W

15°12' N x 174°01' W

23°20' N x 174°25' W

14°31' N x 170°17' W

22°13' N x 165°33' W

14°30' N x 170°15' W

22°09' N x 165°01' W

14°29' N x 173°45' W

21°35' N x 164°42' W

14°18' N x 171°23' W

20°49' N x 173°19' W

14°16.3' N x 170°15' W

20°34' N x 173°09' W

14°13' N x 170°17' W

20°28' N x 160°49' W

14°05' N x 172°50' W

19°49' N x 161°47' W

13°46' N x 172°59' W

19°41' N x 162°06' W

11°50' N x 166°28' W

19°40' N x 159°23' W

11°14' N x 165°29' W

19°34' N x 162°04' W

08°54' N x 162°58' W

19°32' N x 162°18' W

07°28' N x 160°07' W

19°10' N x 170°55' W

07°24' N x 159°52' W

19°10' N x 170°12' W

07°18' N x 159°30' W

18°07' N x 166°02' W

06°37' N x 152°49' W

17°05' N x 168°55' W

06°35' N x 152°54' W

16°50' N x 170°20' W

06°25' N x 169°21' W

16°20' N x 171°45' W

06°20' N x 153°14' W

16°13' N x 171°55' W

06°11' N x 155°20' W

16°11' N x 171°57' W

Procellariophaga paulula (Kellogg and Chapman, 1899)

Johnston Atoll, Sand Island

Pacific Ocean, at sea:

06°35' N x 152°54' W

Naubates harrisoni Bedford, 1930

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Phoenix Island

Pacific Ocean, at sea:

22°24' N x 163°17' W

21°01' N x 158°41' W

20°49' N x 173°19' W	14°52' N x 172°15' W
20°34' N x 173°09' W	14°31' N x 170°17' W
19°49' N x 161°47' W	14°30' N x 170°15' W
19°40' N x 159°00' W	14°29' N x 173°45' W
19°35' N x 162°22.5' W	14°05' N x 172°50' W
19°34' N x 162°04' W	12°49' N x 170°24' W
19°32' N x 162°18' W	11°53' N x 157°00' W
19°27' N x 162°36' W	11°50' N x 166°28' W
19°20' N x 162°58' W	11°14' N x 165°29' W
18°38' N x 164°55' W	10°18' N x 173°00' W
18°07' N x 166°02' W	08°54' N x 162°58' W
16°50' N x 170°20' W	07°28' N x 160°07' W
16°20' N x 171°45' W	07°24' N x 159°52' W
15°45' N x 160°12' W	06°35' N x 152°54' W
15°12' N x 174°01' W	06°20' N x 153°14' W

Saemundsson puellula Timmermann, 1965

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Pacific Ocean, at sea:

23°20' N x 174°25' W	19°35' N x 162°27.5' W
22°52' N x 157°00' W	19°10' N x 170°12' W
22°13' N x 165°33' W	16°20' N x 171°45' W
20°49' N x 173°19' W	14°29' N x 173°45' W
20°43' N x 173°15' W	13°46' N x 172°59' W
20°34' N x 173°09' W	10°22' N x 173°42' W
19°49' N x 161°47' W	07°18' N x 159°30' W
19°40' N x 159°23' W	06°11' N x 155°20' W
19°35' N x 162°22.5' W	

Trabeculus hexakon (Waterston, 1914)

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Pacific Ocean, at sea:

21°35' N x 164°42' W	14°31' N x 170°17' W
20°49' N x 173°19' W	14°30' N x 170°15' W
20°34' N x 173°09' W	14°16.3' N x 170°15' W
19°49' N x 161°47' W	14°05' N x 172°50' W
19°40' N x 159°23' W	12°49' N x 170°24' W
19°34' N x 162°04' W	11°34' N x 170°43' W
19°32' N x 162°18' W	11°50' N x 166°28' W
18°38' N x 164°55' W	08°54' N x 162°58' W
18°07' N x 166°02' W	07°28' N x 160°07' W
16°50' N x 170°20' W	07°24' N x 169°52' W
16°20' N x 171°45' W	06°37' N x 152°49' W
15°45.9' N x 169°12' W	06°35' N x 152°54' W
15°32' N x 170°04' W	06°25' N x 169°21' W
15°12' N x 174°01' W	06°20' N x 153°14' W

- Puffinus griseus Sooty Shearwater  
Halipeurus diversus (Kellogg, 1896)  
 Pacific Ocean, at sea:  
 02°35' N x 174°34' W 03°10' S x 178°45' W  
 02°32' N x 174°42' W
- Procellariophaga paulula (Kellogg and Chapman, 1899)  
 Pacific Ocean, at sea:  
 02°35' N x 174°34' W 03°10' S x 178°45' W  
 02°32' N x 174°42' W
- Trabeculus hexakon (Waterston, 1914)  
 Pacific Ocean, at sea:  
 02°35' N x 174°34' W 02°32' N x 174°42' W
- Puffinus tenuirostris Slender-billed Shearwater  
Halipeurus diversus (Kellogg, 1896)  
 Pacific Ocean, at sea:  
 11°31' N x 171°26' W
- Trabeculus hexakon (Waterston, 1914)  
 Pacific Ocean, at sea:  
 12°03' N x 170°36' W 11°26' N x 171°26' W  
 11°31' N x 171°17' W
- Puffinus nativitatis Christmas Shearwater  
Halipeurus spadix Timmermann, 1961  
 Christmas Atoll, Motu Upua Island  
 Midway Atoll  
 Phoenix Island  
 Pacific Ocean, at sea:  
 06°41' N x 152°45' W
- Naubates harrisoni Bedford, 1930  
 Wake Atoll
- Trabeculus hexakon (Waterston, 1914)  
 Phoenix Island  
 Wake Atoll
- Puffinus puffinus newelli Newell's Shearwater  
Halipeurus diversus (Kellogg, 1896)  
 Pacific Ocean, at sea:  
 20°36' N x 160°05' W
- Trabeculus aviator (Evans, 1912)  
 Pacific Ocean, at sea:  
 10°41' N x 149°16' W
- Puffinus lherminieri Audubon's Shearwater  
Halipeurus spadix Timmermann, 1961  
 Canton Atoll  
 Phoenix Island

## Hydrobatidae

- Oceanodroma castro Harcourt's Storm Petrel  
Halipeurus pelagicus (Denny, 1842)  
 Pacific Ocean, at sea:  
 19°49' N x 159°59' W
- Nesofregetta albigularis White-throated Storm Petrel  
Halipeurus nesofregettae Timmermann, 1961  
 Christmas Atoll  
 Phoenix Island
- Saemundssonina sp.  
 Phoenix Island

## PELECANIFORMES

## Phaethontidae

- Phaethon rubricauda Red-tailed Tropicbird  
Austromenopon sp.  
 Christmas Atoll, Motu Upua Island  
 Pacific Ocean, at sea:  
 14°34' N x 172°32' W                      13°40' N x 172°49' W  
 14°27' N x 171°23' W                      12°09' N x 171°20' W
- Saemundssonina hexagona (Giebel, 1874)  
 Enderbury Island  
 Howland Island  
 Johnston Atoll, Sand Island  
 Kure Atoll, Green Island  
 Pacific Ocean, at sea:  
 22°35' N x 163°48' W                      14°34' N x 172°32' W  
 15°25' N x 170°20' W                      14°32' N x 171°15' W  
 15°23' N x 172°47' W                      14°22' N x 172°36' W  
 15°18' N x 173°56' W                      13°58' N x 170°47' W  
 15°06' N x 169°33.5' W                      13°26' N x 170°08' W  
 14°41' N x 172°26' W                      12°09' N x 171°20' W
- Phaethon lepturus White-tailed Tropicbird  
Austromenopon miloni (Seguy, 1949)  
 Pacific Ocean, at sea:  
 18°22' N x 165°43' W                      15°20' N x 170°30' W  
 17°22' N x 167°54' W                      14°47' N x 170°50' W

Saemundssonina uppaluensis (Rudow, 1870)

Pacific Ocean, at sea:

19°44' N x 171°57' W	14°57' N x 170°37' W
19°15' N x 170°05' W	14°25' N x 172°31' W
16°02' N x 171°57' W	09°00' N x 155°00' W
15°24' N x 173°54' W	

## Pelecanidae

Sula dactylatra

Blue-faced Booby

Eidmanniella albescens (Piaget, 1880)

Enderbury Island

Howland Island

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Kwajalein Atoll

Pacific Ocean, at sea:

16°31' N x 171°29' W	08°35' N x 153°28' W
13°45' N x 169°33' W	08°28' N x 160°07' W
13°24' N x 171°41' W	08°28' N x 153°35' W
10°09' N x 167°54' W	08°07' N x 153°37' W
08°52' N x 150°47' W	06°45' N x 152°43' W
08°47' N x 152°27' W	06°11' N x 155°21' W
08°36' N x 151°00' W	

Pectinopygus annulatus (Piaget, 1880)

Vostok Island

Pacific Ocean, at sea:

19°29' N x 163°32' W	14°11' N x 169°06.5' W
18°38' N x 166°51' W	13°47' N x 173°05' W
17°25' N x 168°21.5' W	13°24' N x 171°41' W
17°03' N x 169°07' W	10°44' N x 149°14' W
16°54' N x 171°25' W	10°09' N x 167°54' W
16°41' N x 169°24' W	09°30' N x 151°43' W
16°31' N x 169°33' W	08°56' N x 152°17' W
16°28' N x 171°10' W	08°47' N x 152°27' W
16°15' N x 169°39' W	08°35' N x 153°28' W
15°25' N x 173°54' W	08°28' N x 153°35' W
15°20' N x 170°24' W	08°09' N x 153°48' W
14°33' N x 170°06' W	08°07' N x 153°37' W
14°14' N x 172°43' W	07°28' N x 160°07' W

Pectinopygus sulae (Rudow, 1869)

Kure Atoll, Green Island

Pacific Ocean, at sea:

14°58' N x 170°10' W	06°35' N x 152°54' W
10°44' N x 149°14' W	06°11' N x 155°21' W
08°52' N x 150°47' W	

Sula sula

Red-footed Booby

Eidmanniella albescens (Piaget, 1880)

Pacific Ocean, at sea:

16°50' N x 169°15' W

16°33' N x 170°59' W

16°45' N x 169°00' W

12°22' N x 171°01' W

Pectinopygus sulae (Rudow, 1869)

Howland Island

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Vostok Island

Pacific Ocean, at sea:

21°01' N x 158°41' W

16°15' N x 171°14' W

20°55' N x 160°21' W

16°07' N x 169°18' W

20°17' N x 160°55' W

16°06' N x 169°32.5' W

17°49' N x 163°30' W

15°54' N x 172°08' W

17°15' N x 164°14' W

15°06' N x 170°31' W

17°09' N x 169°10' W

14°59' N x 169°35' W

16°54' N x 169°21' W

14°51.5' N x 169°49' W

16°50' N x 171°14' W

14°26' N x 169°04' W

16°50' N x 169°15' W

14°23' N x 171°07' W

16°45' N x 169°00' W

13°30' N x 160°38' W

16°43' N x 171°17' W

13°14' N x 169°58' W

16°38' N x 169°38' W

12°22' N x 171°01' W

16°33' N x 170°59' W

Sula leucogaster

Brown Booby

Eidmanniella albescens (Piaget, 1880)

Erikub Atoll

Pectinopygus sulae (Rudow, 1869)

Erikub Atoll

## Fregatidae

Fregata minor

Great Frigatebird

Colpocephalum angulaticeps Piaget, 1880

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Phoenix Island

Pacific Ocean, at sea:

14°20' N x 171°21' W

Fregatiella aurifasciata (Kellogg, 1899)

Phoenix Island

Pacific Ocean, at sea:

16°55' N x 169°24' W



Pectinopygus gracilicornis (Piaget, 1880)

Enderbury Island

French Frigate Shoals, East Island

Johnston Atoll, Sand Island

Kure Atoll, Green Island

Phoenix Island

Vostok Island

Pacific Ocean, at sea:

22°07' N x 165°02' W

14°20' N x 171°21' W

16°55' N x 169°24' W

13°34' N x 169°55' W

16°11' N x 171°53.5' W

Fregata ariel

Lesser Frigatebird

Pectinopygus sp.

Howland Island

Phoenix Island

Tongareva Atoll

## ANSERIFORMES

## Anatidae

Anas crecca carolinensis

Green-winged Teal

Trinoton querquedulae (Linnaeus, 1758)

Midway Atoll

Anas penelope

European Widgeon

Trinoton querquedulae (Linnaeus, 1758)

Kure Atoll, Green Island

Anas acuta

Pintail

Anaticola crassicornis dafilensis Carriker, 1956

Kwajalein Atoll

Anatoecus dentatus subsp.

Kure Atoll, Green Island

Anatoecus sp.

Kwajalein Atoll

Holomenopon clypeilargum Eichler, 1943 (?)

Kwajalein Atoll

Trinoton querquedulae (Linnaeus, 1758)

Kure Atoll, Green Island

Kwajalein Atoll

Midway Atoll

- Anas querquedula Garganey Teal  
Anatoecus sp.  
 Wake Atoll
- Trinoton querquedulae (Linnaeus, 1758)  
 Midway Atoll  
 Wake Atoll
- Anas clypeata Shoveler  
Anaticola crassicornis hopkinsi Eichler, 1954  
 Wake Atoll
- Aythya fuligula Tufted Duck  
Anatoecus sp.  
 Midway Atoll
- Trinoton querquedulae (Linnaeus, 1758)  
 Midway Atoll

## CHARADRIIFORMES

## Charadriidae

- Squatarola squatarola Black-bellied Plover  
Austromenopon squatarolae Timmermann, 1954  
 Johnston Atoll, Sand Island
- Quadriceps charadrii hospes (Nitzsch, 1866)  
 Johnston Atoll, Sand Island
- Pluvialis dominica Golden Plover  
Actornithophilus ochraceus (Nitzsch, 1818)  
 Kure Atoll, Green Island  
 Wilder Shoal  
 Pacific Ocean, at sea:  
 18°36' N x 164°31' W
- Quadriceps charadrii orarius (Kellogg, 1896)  
 Kure Atoll, Green Island  
 Pacific Ocean, at sea:  
 18°36' N x 164°31' W
- Saemundssonina conica conica (Denny, 1842)  
 Kure Atoll, Green Island  
 Pacific Ocean, at sea:  
 18°36' N x 164°31' W

## Scolopacidae

- Numenius phaeopus Whimbrel  
Actornithophilus ocellatus (Rudow, 1869)  
 Maiana Atoll
- Numenius tahitiensis Bristle-thighed Curlew  
Austromenopon phaeopodis (Schrack, 1802)  
 Pacific Ocean, at sea:  
 16°55' N x 170°20' W
- Lunaceps numenii hopkinsi Timmermann, 1954  
 Kure Atoll, Green Island  
 Midway Atoll, Sand Island  
 Vostok Island  
 Pacific Ocean, at sea:  
 16°55' N x 169°32' W
- Saemundssonina scolopacisphaeopodis (Schrack, 1803)  
 Midway Atoll, Sand Island
- Limosa lapponica Bar-tailed Godwit  
Actornithophilus limosae (Kellogg, 1908)  
 Kwajalein Atoll  
 Lisianski Island
- Saemundssonina limosae (Denny, 1842)  
 Lisianski Island
- Totanus flavipes Lesser Yellowlegs  
Quadriceps falcigerus (Peters, 1931)  
 Kure Atoll, Green Island
- Tringa glareola Wood Sandpiper  
Quadriceps obscurus (Burmeister, 1838)  
 Midway Atoll
- Heteroscelus incanum Wandering Tattler  
Actornithophilus kilauensis (Kellogg and Chapman, 1902)  
 Aranuka Atoll  
 Kwajalein Atoll
- Quadriceps impar Hopkins and Timmermann, 1954  
 Johnston Atoll, Sand Island
- Arenaria interpres Ruddy Turnstone  
Actornithophilus bicolor (Piaget, 1880)  
 Kure Atoll, Green Island  
 Kwajalein Atoll  
 Pacific Ocean, at sea:  
 15°18' N x 171°40' W                      12°30' N x 171°32' W

Actornithophilus pediculoides (Mjoberg, 1910)  
Kwajalein Atoll

Austromenopon sp.  
Pacific Ocean, at sea:  
15°18' N x 171°40' W

Quadriceps strepsilaris (Denny, 1842)  
Hull Island  
Kure Atoll, Green Island  
Pacific Ocean, at sea:  
14°24' N x 172°40' W

Crocethia alba

Sanderling

Actornithophilus umbrinus (Burmeister, 1838)  
Baker Island  
Kwajalein Atoll

Carduiceps zonarius (Nitzsch, 1866)  
Baker Island

Erolia melanotos

Pectoral Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)  
Taka Atoll

Erolia acuminata

Sharp-tailed Sandpiper

Actornithophilus umbrinus (Burmeister, 1838)  
Kure Atoll, Green Island  
Midway Atoll

Carduiceps zonarius (Nitzsch, 1866)  
Gardner Island  
Kure Atoll, Green Island  
Midway Atoll

Luniceps sp.  
Kure Atoll, Green Island

Saemundssonina platygaster subsp.  
Wake Atoll

Saemundssonina tringae (O. Fabricius, 1780)  
Gardner Island

#### Stercorariidae

Stercorarius pomarinus

Pomarine Jaeger

Saemundssonina euryrhyncha (Giebel, 1874)  
Pacific Ocean, at sea:  
21°05' N x 158°31' W

- Stercorarius longicaudus Long-tailed Jaeger  
Quadriceps normifer parvopallidus (Eichler, 1951)  
 Pacific Ocean, at sea:  
 14°14' N x 169°13' W
- Laridae
- Larus atricilla Laughing Gull  
Austromenopon transversum (Denny, 1842)  
 Pacific Ocean, at sea:  
 12°41' N x 171°28' W
- Saemundssonina lari atricilla Carriker, 1956  
 Pacific Ocean, at sea:  
 12°41' N x 171°28' W
- Sterna sumatrana Black-naped Tern  
Austromenopon astrofulvum (Piaget, 1880)  
 Erikub Atoll
- Sterna lunata Gray-backed Tern  
Actornithophilus piceus piceus (Denny, 1842)  
 Hull Island  
 Wake Atoll
- Austromenopon atrofulvum (Piaget, 1880)  
 Wake Atoll
- Quadriceps sp.  
 Johnston Atoll, Sand Island  
 Phoenix Island
- Saemundssonina snyderi (Kellogg and Paine, 1910)  
 Canton Atoll, Spam Island  
 Howland Island  
 Hull Island  
 Phoenix Island  
 Wake Atoll
- Sterna fuscata Sooty Tern  
Actornithophilus piceus piceus (Denny, 1842)  
 Enderbury Island  
 Johnston Atoll, Sand Island  
 Starbuck Island  
 Wake Atoll  
 Pacific Ocean, at sea:  
 14°16' N x 171°21' W

Austromenopon atrofulvum (Piaget, 1880)

Howland Island  
 Johnston Atoll, Sand Island  
 Phoenix Island  
 Wake Atoll

Quadriceps birostris (Giebel, 1874)

Canton Atoll, Spam Island  
 Enderbury Island  
 Pearl and Hermes Reef  
 Johnston Atoll, Sand Island  
 Kure Atoll, Green Island  
 Phoenix Island  
 Wake Atoll

Pacific Ocean, at sea:

23°43' N x 174°33' W	17°38' N x 171°55' W
23°25' N x 166°25' W	16°57' N x 169°39' W
23°24' N x 166°25' W	16°54' N x 171°35' W
22°28' N x 167°19' W	16°50' N x 170°02' W
21°10' N x 161°20' W	16°50' N x 169°56' W
20°29' N x 169°02' W	16°50' N x 169°15' W
20°26' N x 161°02' W	16°36' N x 171°12' W
20°25' N x 160°45.2' W	16°20' N x 171°39' W
20°22.8' N x 160°51.2' W	16°20' N x 171°19.5' W
20°21' N x 169°09' W	16°19' N x 172°38.8' W
20°07.5' N x 161°14.8' W	15°22' N x 170°14' W
20°05' N x 161°40' W	15°10' N x 171°55' W
19°50' N x 163°04' W	15°02' N x 168°56' W
19°40' N x 159°23' W	14°16.3' N x 170°15' W
19°27' N x 169°53' W	14°16' N x 171°21' W
18°45' N x 164°52' W	12°51' N x 170°31' W
18°18' N x 171°60' W	07°07' N x 158°54' W
18°10' N x 166°13' W	06°22' N x 156°13' W
18°07' N x 166°02' W	06°11' N x 155°20' W
18°03' N x 166°33' W	

Saemundssonina albemarlensis (Kellogg and Kuwana, 1902)

Canton Atoll, Spam Island  
 Enderbury Island  
 Hull Island  
 Johnston Atoll, Sand Island  
 Kure Atoll, Green Island  
 Pearl and Hermes Reef  
 Phoenix Island  
 Wake Atoll

Pacific Ocean, at sea:

23°43' N x 174°33' W	20°37' N x 168°58' W
23°25' N x 166°25' W	20°26' N x 161°02' W
22°31' N x 176°16' W	20°25' N x 160°45.2' W
22°28' N x 167°19' W	20°21' N x 169°09' W
21°41' N x 173°13' W	20°05' N x 161°40' W

19°40' N x 159°23' W  
 18°45' N x 164°52' W  
 18°03' N x 166°33' W  
 17°38' N x 171°55' W  
 16°57' N x 169°39' W  
 16°54' N x 171°35' W  
 16°50' N x 170°02' W  
 16°50' N x 169°56' W  
 16°50' N x 169°15' W  
 16°49' N x 169°05' W  
 16°36' N x 171°12' W

16°20' N x 171°39' W  
 16°20' N x 171°19.5' W  
 16°20' N x 170°43' W  
 15°45.9' N x 169°12' W  
 15°10' N x 171°55' W  
 15°04' N x 174°20' W  
 15°02' N x 168°56' W  
 14°16.3' N x 170°15' W  
 12°15' N x 170°31' W  
 06°22' N x 156°13' W  
 06°11' N x 155°20' W

Thalasseus bergii

Crested Tern

Saemundssonina sp.  
 Jaluit Atoll

Procelsterna cerulea

Blue-gray Noddy

Austromenopon sp.  
 Phoenix Island

Quadriceps sp.

Phoenix Island

Anous stolidus

Brown Noddy

Actornithophilus incisus (Piaget, 1880)

Baker Island  
 Erikub Atoll  
 Hull Island  
 Johnston Atoll, Sand Island  
 Kure Atoll, Green Island  
 Kwajalein Atoll  
 Palmyra Island  
 Phoenix Island  
 Tongareva Atoll

Actornithophilus sp.

Johnston Atoll, Sand Island

Austromenopon sp.

Kure Atoll, Green Island  
 Tongareva Atoll

Quadriceps separatus (Kellogg and Kuwana, 1902)

Hull Island  
 Johnston Atoll, Sand Island  
 Kure Atoll, Green Island  
 Kwajalein Atoll  
 Palmyra Island  
 Phoenix Island  
 Tongareva Atoll

Saemundsson lobaticeps remota Timmermann, 1951  
Kure Atoll, Green Island

Anous tenuirostris

Black Noddy

Actornithophilus ceruleus Timmermann, 1954 (?)

Hull Island  
Kure Atoll, Green Island  
Vostok Island

Actornithophilus incisus (Piaget, 1880)  
Christmas Atoll, Motu Upua Island

Austromenopon sp.  
Hull Island

Quadriceps hopkinsi Timmermann, 1952  
Christmas Atoll, Motu Upua Island  
Hull Island  
Vostok Island

Gygis alba

White Tern

Actornithophilus sp.  
Aranuka Atoll

Saemundsson sp.  
Christmas Atoll, Motu Upua Island  
Kure Atoll, Green Island  
Phoenix Island  
Pacific Ocean, at sea:  
16°01' N x 169°17' W

NORTH PACIFIC OCEAN

ANSERIFORMES

Anatidae

Anas crecca carolinensis

Green-winged Teal

Anatoecus sp.

Aleutian Islands, Ananiuliak Island

CHARADRIIFORMES

Scolopacidae



- Numenius phaeopus Whimbrel  
Austromenopon phaeopodis (Schrank, 1802)  
 Alaska, St. George Island
- Lunaceps numenii phaeopi (Denny, 1842)  
 Alaska, St. George Island
- Saemundssonina scolopacisphaeopodis (Schrank, 1803)  
 Alaska, St. George Island
- Arenaria interpres Ruddy Turnstone  
Actornithophilus bicolor (Piaget, 1880)  
 Alaska, St. George Island
- Quadriceps strepsilaris (Denny, 1842)  
 Alaska, St. George Island
- Limnodromus scolopaceus Long-billed Dowitcher  
Carduiceps cingulatus (Denny, 1842) (?)  
 Alaska, St. George Island
- Ereunetes mauri Western Sandpiper  
Carduiceps zonarius (Nitzsch, 1866)  
 Alaska, St. George Island
- Lunaceps holophaeus cabanisi Timmermann, 1954  
 Alaska, St. George Island
- Saemundssonina tringae (O. Fabricius, 1780)  
 Alaska, St. George Island
- Erolia ptilocnemis Rock Sandpiper  
Carduiceps meinertzhageni Timmermann, 1954  
 Alaska, St. George Island
- Lunaceps sp.  
 Alaska, St. George Island
- Saemundssonina tringae (O. Fabricius, 1780)  
 Alaska, St. George Island
- Erolia melanotos Pectoral Sandpiper  
Carduiceps zonarius (Nitzsch, 1866)  
 Alaska, St. George Island
- Erolia acuminata Sharp-tailed Sandpiper  
Lunaceps sp.  
 Alaska, St. George Island

Philomachus pugnax  
Carduiceps scalaris (Piaget, 1880)  
 Alaska, St. George Island

Ruff

Lunaceps holophaeus holophaeus (Burmeister, 1838)  
 Alaska, St. George Island

## Laridae

Larus glaucescens  
Saemundsson lari subsp.  
 Alaska, St. George Island

Glaucous-winged Gull

## Alcidae

Cepphus columba  
Saemundsson procax (Kellogg and Chapman, 1899)  
 Alaska, St. Paul Island

Pigeon Guillemot

Brachyrampus marmoratum  
Saemundsson sp.  
 Bering Sea, at sea:  
 53°00' N x 168°55' W

Marbled Murrelet

Aethia pusilla  
Quadriceps aethereus (Giebel, 1874)  
 Alaska, St. Paul Island

Least Auklet

Saemundsson sp.  
 Alaska, St. Paul Island

## PASSERIFORMES

## Fringillidae

Melospiza melodia  
Philopterus sp.  
 Alaska, Umnak Island

Song Sparrow

SOUTHEASTERN PACIFIC OCEAN

## PROCELLARIIFORMES

## Diomedidae

- Diomedea chrysostoma Grey-headed Albatross  
Docophoroides simplex (Waterston, 1914)  
 Pacific Ocean, off Chile.
- Diomedea exulans Wandering Albatross  
Docophoroides brevis (Dufour, 1835)  
 Pacific Ocean, off Chile
- Harrisoniella hopkinsi Eichler, 1952  
 Pacific Ocean, off Chile

## PART II: MALLOPHAGA CHECKLIST

## ISCHNOCERA

## Philopteridae

- Anaticola crassicornis dafilensis Carriker, 1956  
 Host: Anas acuta
- Anaticola crassicornis hopkinsi Eichler, 1954  
Anas clypeata
- Anatoecus dentatus subsp.  
Anas acuta
- Anatoecus sp.  
Anas crecca carolinensis  
Anas acuta  
Anas querquedula  
Aythya fuligula
- Carduiceps cingulatus (Denny, 1842) (?)  
Limnodromus scolopaceus
- Carduiceps meinertzhageni Timmermann, 1954  
Erolia ptilocnemis
- Carduiceps scalaris (Piaget, 1880)  
Philomachus pugnax
- Carduiceps zonarius (Nitzsch, 1866)  
Crocethia alba  
Erolia acuminata  
Ereunetes mauri  
Erolia melanotos

- Docophoroides brevis (Dufour, 1835)  
Diomedea exulans
- Docophoroides pacificus ferrisi Harrison, 1937  
Diomedea nigripes
- Docophoroides pacificus subsp.  
Diomedea immutabilis
- Docophoroides simplex (Waterston, 1914)  
Diomedea chrysostoma
- Episbates pederiformis (Dufour, 1835)  
Diomedea nigripes
- Halipeurus bulweriae Timmermann, 1960  
Bulweria bulwerii
- Halipeurus diversus (Kellogg, 1896)  
Puffinus griseus  
Puffinus tenuirostris  
Puffinus puffinus newelli
- Halipeurus heraldicus Timmermann, 1960  
Pterodroma alba
- Halipeurus kermadecenae (Johnston and Harrison, 1912)  
Pterodroma externa  
Pterodroma neglecta
- Halipeurus leucophryna Timmermann, 1960  
Pterodroma cooki
- Halipeurus marquesanus (Ferris, 1932)  
Pterodroma rostrata
- Halipeurus mirabilis Thompson, 1940  
Puffinus pacificus
- Halipeurus nesofregettae Timmermann, 1961  
Nesofregetta albigularis
- Halipeurus noctivagus (Timmermann, 1960)  
Pterodroma phaeopygia
- Halipeurus pelagicus (Denny, 1842)  
Pterodroma hypoleuca  
Pterodroma cooki  
Oceanodroma castro

- Halipeurus spadix Timmermann, 1961  
Puffinus nativitatus  
Puffinus lhermineri
- Halipeurus theresae Timmermann, 1969  
Pterodroma hypoleuca
- Harrisoniella densa (Kellogg, 1896)  
Diomedea immutabilis
- Harrisoniella hopkinsi Eichler, 1952  
Diomedea exulans
- Luniceps holophaeus cabanisi Timmermann, 1954  
Ereunetes mauri
- Luniceps holophaeus holophaeus (Burmeister, 1838)  
Philomachus pugnax
- Luniceps numenii hopkinsi Timmermann, 1954  
Numenius tahitiensis
- Luniceps numenii phaeopi (Denny, 1842)  
Numenius phaeopus
- Luniceps sp.  
Erolia acuminata  
Erolia ptilocnemis
- Naubates damma Timmermann, 1961  
Pterodroma externa
- Naubates harrisoni Bedford, 1930  
Puffinus carneipes  
Puffinus harrisoni  
Puffinus nativitatus
- Naubates pterodromi Bedford, 1930  
Pterodroma phaeopygia
- Paraclisis confidens (Kellogg, 1899)  
Diomedea nigripes
- Paraclisis gigantica (Kellogg, 1896)  
Diomedea immutabilis
- Pectinopygus annulatus (Piaget, 1880)  
Sula dactylatra

- Pectinopygus gracilicornis (Piaget, 1880)  
Fregata minor
- Pectinopygus sulae (Rudow, 1869)  
Sula dactylatra  
Sula sula  
Sula leucogaster
- Pectinopygus sp.  
Fregata ariel
- Perineus nigrolimbatus (Giebel, 1874)  
Fulmarus glacialis
- Perineus tenuipenalis Keler, 1958  
Diomedea immutabilis
- Philopterus sp.  
Melospiza melodia
- Quadriceps aethereus (Giebel, 1874)  
Aethia pusilla
- Quadriceps birostris (Giebel, 1874)  
Sterna fuscata
- Quadriceps charadrii hospes (Nitzsch, 1866)  
Squatarola squatarola
- Quadriceps charadrii orarius (Kellogg, 1896)  
Pluvialis dominica
- Quadriceps falcigerus (Peters, 1931)  
Totanus flavipes
- Quadriceps hopkinsi Timmermann, 1952  
Anous tenuirostris
- Quadriceps impar Hopkins and Timmermann, 1954  
Heteroscelus incanum
- Quadriceps normifer parvopallidus (Eichler, 1951)  
Stercorarius longicaudis
- Quadriceps obscurus (Burmeister, 1838)  
Tringa glareola
- Quadriceps separatus (Kellogg and Kuwana, 1902)  
Anous stolidus

Quadriceps strepsilaris (Denny, 1842)  
Arenaria interpres

Quadriceps sp.  
Sterna lunata  
Procelsterna cerulea

Saemundssonina albemarlensis (Kellogg and Kuwana, 1902)  
Sterna fuscata

Saemundssonina conica conica (Denny, 1842)  
Pluvialis dominica

Saemundssonina euryrhyncha (Giebel, 1874)  
Stercorarius pomarinus

Saemundssonina hexagona (Giebel, 1874)  
Phaethon rubricauda

Saemundssonina lari atricilla Carriker, 1956  
Larus atricilla

Saemundssonina lari subsp.  
Larus glaucescens

Saemundssonina limosae (Denny, 1842)  
Limosa lapponica

Saemundssonina labaticeps remota Timmermann, 1951  
Anous stolidus

Saemundssonina platygaster subsp.  
Erolia acuminata

Saemundssonina procax (Kellogg and Chapman, 1899)  
Cepphus columba

Saemundssonina puellula Timmermann, 1965  
Puffinus pacificus

Saemundssonina scolopacisphaeopodis (Schrank, 1803)  
Numenius tahitiensis  
Numenius phaeopus

Saemundssonina snyderi (Kellogg and Paine, 1910)  
Sterna lunata

Saemundssonina tringae (O. Fabricius, 1780)  
Erolia acuminata  
Ereunetes mauri  
Erolia ptilocnemis

Saemundsson uppaluensis (Rudow, 1870)  
Phaethon lepturus

Saemundsson sp.  
Nesofregetta albigularis  
Thalasseus bergii  
Gygis alba  
Brachyramphus marmoratum  
Aethia pusilla

Trabeculus aviator (Evans, 1912)  
Puffinus puffinus newelli

Trabeculus fuscoclypeatus (Johnston and Harrison, 1912)  
Pterodroma neglecta

Trabeculus hexakon (Waterston, 1914)  
Pterodroma externa  
Pterodroma hypoleuca  
Pterodroma alba  
Pterodroma cooki  
Puffinus pacificus  
Puffinus griseus  
Puffinus tenuirostris  
Puffinus nativitatus

AMBYCERA

Menoponidae

Actornithophilus bicolor (Piaget, 1880)  
Arenaria interpres

Actornithophilus ceruleus (Timmermann, 1954) (?)  
Anous tenuirostris

Actornithophilus incisus (Piaget, 1880)  
Anous stolidus  
Anous tenuirostris

Actornithophilus kilauensis (Kellogg and Chapman, 1902)  
Heteroscelus incanum

Actornithophilus limosae (Kellogg, 1908)  
Limosa lapponica

Actornithophilus ocellatus (Rudow, 1869)  
Numenius phaeopus

Actornithophilus ochraceus (Nitzsch, 1818)  
Pluvialis dominica



Actornithophilus pediculoides (Mjoberg, 1910)  
Arenaria interpres

Actornithophilus piceus piceus (Denny, 1842)  
Sterna lunata  
Sterna fuscata

Actornithophilus umbrinus (Burmeister, 1838)  
Crocethia alba  
Erolia melanotos

Actornithophilus sp.  
Anous stolidus  
Gygis alba

Ancistrona vagelli (J. C. Frabricius, 1787)  
Pterodroma externa  
Pterodroma rostrata  
Pterodroma neglecta  
Puffinus pacificus

Austromenopon atrofulvum (Piaget, 1880)  
Sterna sumatrana  
Sterna lunata  
Sterna fuscata

Austromenopon miloni (Seguy, 1949)  
Phaethon lepturus

Austromenopon phaeopodis (Schrank, 1802)  
Numenius tahitiensis  
Numenius phaeopus

Austromenopon squatarolae Timmermann, 1954  
Squatarola squatarola

Austromenopon transversum (Denny, 1842)  
Larus atricilla

Austromenopon sp.  
Phaethon rubricauda  
Arenaria interpres  
Procelsterna cerulea  
Anous stolidus  
Anous tenuirostris

Colpocephalum angulaticeps Piaget, 1880  
Fregata minor

Eidmanniella albescens (Piaget, 1880)

Sula dactylatra

Sula sula

Sula leucogaster

Fregatiella aurifasciata (Kellogg, 1899)

Fregata minor

Holomenopon clypeilargum Eichler, 1943 (?)

Anas acuta

Longimenopon sp.

Pterodroma cooki

Procellariophaga affinis (Piaget, 1890)

Diomedea nigripes

Diomedea immutabilis

Procellariophaga enigki (Timmermann, 1963)

Pterodroma hypoleuca

Procellariophaga paulula (Kellogg and Chapman, 1899)

Puffinus pacificus

Puffinus griseus

Procellariophaga sp.

Pterodroma externa

Pterodroma alba

Trinoton querquedulae (Linnaeus, 1758)

Anas crecca carolinensis

Anas penelope

Anas acuta

Anas querquedula

Aythya fuligula

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