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AN ANNOTATED BIBLIOGRAPHY OF LAYSAN ISLAND,
NORTHWESTERN HAWAIIAN ISLANDS

BY

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AN ANNOTATED BIBLIOGRAPHY OF LAYSAN ISLAND, NORTHWESTERN HAWAIIAN ISLANDS

BY

Roger B. Clapp*, Miklos D. F. Udvardy**, and Angela Kay Kepler***

INTRODUCTION

The nineteenth century was a period of great discovery for the terrestria biota of the Northwestern Hawaiian Islands, and especially Laysan Island. More comprehensive surveys were undertaken early in the 20th century, after Theodore Roosevelt established the Hawaiian Islands Bird Reservation in 1909. During the 1960s, studies by the Smithsonian Pacific Ocean Biological Survey Program vastly increased our knowledge of these islands and included among them a comprehensive monograph on the natural history of Laysan Island by C. A. Ely and R. B. Clapp (1973).

Beginning in the mid-1970s, Laysan and its sister islands received further attention with the expanded study of endangered vertebrates by the U. S. Fish and Wildlife Service (which administers these islands), and with Hawaii's growing interest in the fishery resources of the area as reflected in studies by the National Marine Fisheries Service. Two symposium volumes (Grigg and Pfund 1980; Grigg and Tanouye 1984) and many reports on endangered vertebrates followed such as the series of papers on the Hawaiian Monk Seal (*Monachus schauinslandi*) authored by the Johnsons, on sea turtles by Balazs and his colleagues on sea turtles, and on the Laysan Finch (*Telespyza cantans*) by Conant and Morin. These and other studies and incidental observations have provided much new information on the biota of Laysan and the other Northwestern Hawaiian Islands. Indeed, almost as many published and unpublished reports on Laysan Island have come out in the last 20 years as in the preceding century.

Because this material is scattered over hundreds of professional journals and other periodicals, we decided to prepare a bibliography to make easier the task of those intending to conduct research on Laysan in the future. As we worked on this bibliography it occurred to us that it would be worthwhile to include the earlier bibliography in Ely and Clapp so as to have a single complete source of information on the literature of this atoll.

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The 1973 bibliography was by no means intended to be exhaustive but was to be an index to the primary papers dealing with various aspects of the fauna and flora. Often the latest paper on a subject was used rather than list the three or four previous papers on which it may have been largely based. For the convenience of the reader, this bibliography includes many of the earlier papers not included in the Laysan account, and corrects others that were incorrect in or inadvertently omitted from Ely and Clapp (1973). We also include a number of anonymous newspaper articles for which we know the date of publication but not the page numbers. Many of these would be useful in constructing a detailed history of Laysan and the Northwestern Hawaiian Islands and are included to aid in such studies.

Our current bibliography lists 1076 titles referring to Laysan, not including several more that were excluded for being too peripheral or which only duplicated information included in other titles included herein. The original bibliography in Ely and Clapp contained 286 titles, with many of them literature specific to organisms or general subjects and not necessarily including Laysan. This drastic increase over the last 22 years once again emphasizes the much expanded role of research in the Northwestern Hawaiian Islands.

Titles are sometimes supplied in brackets when the original material lacked them. Many, but not all, titles are annotated; titles lacking annotations are usually those whose titles very adequately indicate the paper's contents. We have usually only briefly annotated published papers or books that are easily accessible and have given more extensive annotations of manuscript material that is often found at only one or two sites and which may be difficult or impossible to consult without considerable effort. Our annotations are limited for publications with only minimal information on Laysan Island.

Scientific names are reported as they appear in original reports, but amended names are often referred back to earlier papers. We have not included some popular works that only rehash well-known information on Laysan, nor have we included some technical papers that only secondarily refer to Laysan and which provide no new information.

During the Smithsonian Pacific Ocean Biological Survey Program (hereafter POBSP), 1962-1970, a very extensive literature survey was conducted for references to the central Pacific Islands covered by this project (those in an area from 30° N to 10° S and from 150° W to 180° W (Humphrey 1965)). Translations were also made of a considerable number of papers in foreign languages, particularly the reports stemming from Schauinsland's Expedition to Laysan in 1896. In some instances, these files do not include the complete publication, particularly when the material appears in a lengthy book; in such instances, only those pages specifically pertaining to the islands were copied.

In addition many hundreds of man-hours were spent looking for, taking notes on, and copying unpublished sources of information, principally in the files of the U. S. Fish and Wildlife Service, the Hawaii Division of Fish and Game, the Bernice P. Bishop Museum and other sources in Honolulu, HI, and in various Record Groups in the U. S. National Archives in Washington, DC. The results of this search, something over 1850 titles, are now housed in the Smithsonian Natural History building in Room 434. Because these files provide a unique source of information on Laysan and other Northwestern Hawaiian Islands we have decided to include the file number for each of the titles occurring there and appearing in this bibliography. Such files are indicated by the entry [POBSP - followed by the file folder number.]

Originals of unpublished POBSP reports are held in the U. S. National Museum Archives in Washington D.C., and copies of most of these are in a series of numbered blue bound volumes presently kept in the Smithsonian Bird Division library. Such reports are indicated by entries such as POBSP BB (blue book) followed by the number of the volume and/or by the SI Archives, Series, Box, and Folder numbers, e.g. SIA 2, 17, 8. [All are in Record Group 245]

Because the authors of this bibliography are principally vertebrate ecologists or ornithologists, we cannot be certain, indeed doubt, that the listing of papers for the flora or invertebrates is absolutely complete. We do feel, however, that the bibliography, listing as it does, so many unpublished and obscure sources of information, should be highly helpful to future researchers.

The reader should note that much of the manuscript material, other than that in the U. S. National Archives, may not be in the public domain and may not be available on request to some of the holding facilities.

ACKNOWLEDGMENTS

We are very grateful to the Atherton Seidell Endowment for their grant which made possible the publication of this work. Ian G. Macintyre, Smithsonian Institution, Washington, D.C. undertook the tedious task of the coordinating editor of this volume. W. Donald Duckworth of the B. P. Bishop Museum, Honolulu, Charles H. Lamoureaux, University of Hawaii, Honolulu, the personnel of the Interlibrary Loans Division, and Michael W. Doyle, computing consultant of the California State University, Sacramento, and those of the Smithsonian Library, especially Carol Hahn and David Steere, provided much help with the literature. The late Edward H. Bryan, Jr. of the Bishop Museum supplied his rich Laysan Island file to Udvardy in 1961 and later allowed Clapp full access to his files.

Numerous colleagues deserve our thanks for providing suggestions and literature which substantially aided our efforts in preparing this bibliography. These are: George H. Balazs, Brenda L. Becker, Jeffrey Polovina, Timothy G. Ragen (U. S. Dep. Commerce, NOAA, Honolulu, HI), Richard C. Banks, Robert Reynolds (National

Biological Survey, Smithsonian Institution, Washington, DC), Sheila Conant, E. Alison Kay, Ernest Reese (University of Hawaii, Honolulu, HI), Andy Engilis (Ducks Unlimited, Sacramento, CA), Elizabeth Flint, Jeffrey S. Marks, D. Kenneth McDermond, Mark Webber, Ronald L. Walker (U. S. Fish and Wildlife Service, Honolulu, HI), Derral Herbst (U.S. Army Corps of Engineers, Honolulu, HI), Karl W. Kenyon (Seattle, WA), Cameron B. Kepler (National Biological Survey, Athens, GA), Eugene Kridler (Sequim, Washington), Michel Louette (Museum for Middle Africa, Tervuren, Belgium), James E. Maragos (East-West Center, University of Hawaii, Honolulu, HI), Ann. P. Marshall (Division of Fish and Wildlife, Department of Lands and Natural Resources, Commonwealth of the Northern Marianas), Marie P. Morin (Hawaii Volcanoes National Park, Hawaii, HI), Audrey L. Newman (The Nature Conservancy, Honolulu, HI), Dan Nicolson (Dep. Botany, Smithsonian Institution, Washington DC), Stephen Ralston (U. S. Dep. Commerce, NOAA, Tiburon, CA), Richard L. Pyle, Robert L. Pyle, Lucius Eldredge, John E. Randall (B. P. Bishop Museum, Honolulu, HI).

CITATIONS

Abbott, I. A. 1989. Marine algae of the Northwest Hawaiian Islands. *Pacific Sci.* 43(3): 223-233. [Records for all the Northwestern Hawaiian Islands with some hitherto unreported from Laysan.]

Abbott, R. T. 1968. The Helmet Shells of the World (Cassidae). Part 1. *Indo-Pacific Mollusca* 2(9): 15-202. [Records *Casmaria erinaceus kalosmodix* (Melville, 1883)(p. 193) from Kure Atoll, Midway Atoll, Laysan, Lisianski, and Pearl and Hermes Reef in the Northwestern Hawaiian Islands.]

Abood, H. 1959. Rare Laysan Teal thrive on tiny isle. *Honolulu Star-Bulletin*, May 20, 1959: D-11. [Reports [G. D.] Butler [Jr.], [H.] Caspers and Bill Smithe's [sic = W. R. Smythe] 3 days on Laysan; estimate of 500-600 ducks mentioned]

Adams, J., and H. Nevins. 1994ms. Trip Report: Laysan Island, 8 June - 23 October 1994. Admin. Rep., U.S. Fish Wildl. Serv., Honolulu, HI. 31 pp. (and 11 unnumbered pp. of maps, figure, and data). [Information on *Cenchrus* control and Laysan Duck (*Anas laysanensis*) counts, an estimate of the Laysan Finch (*Telespyza cantans*) population, censuses of the three species of boobies, the Great Frigatebird (*Fregata minor*), Red-tailed Tropicbird (*Phaethon rubricauda*), Black Noddy (*Anous minutus*), and White Tern (*Gygis alba*); notes on other species and vagrants but with little information on the latter; data on plants, seals, turtles, invertebrates, weather and maps of breeding areas of Sooty Terns (*Sterna fuscata*) and White Terns.]

Agassiz, A., and H. L. Clark. 1907. Preliminary report on the Echini collected, in 1902, among the Hawaiian Islands, by the U. S. Fish Commission Steamer "Albatross", in charge of Commander Chauncey Thomas, U.S.N., Commanding. *Bull. Mus. Comp.*

Zool. 50(8): 231-259. [Reports 8 echinoderms collected at and near Laysan; one, *Clypeaster lytopetalus*, is described as a new species.] [POBSP 1577]

Agassiz, A. and H. L. Clark. 1907-1912. Hawaiian and other Pacific Echini. Mus. Comp. Zool. Harvard, Mem. 34: vii and 383 pp. [Further report on the echinoderms collected by the Albatross Expedition] [POBSP 1562]

Aiman, E. 1944. American acquisition and development of minor Pacific islands. M.A. Thesis, Univ. Chicago. [Historical summary of early visits to Laysan and other Northwestern Hawaiian Islands (pp. 11-12). Pp. 22-24 deal specifically with Laysan.] [part only in POPSP 1745]

Alcorn, D. J. 1984. The Hawaiian Monk Seal on Laysan Island: 1982. U.S. Dep. Commer., NOAA Tech. Memo. NMFS, NOAA-TM-NMFS-SWFC-42 iii + 37 pp. [Studies conducted 15 March-30 June and 10 July provide data on populations, reproduction, factors affecting survival. Counts ranged from 66 to 119 and averaged 90.]

Alcorn, D. J., and E. K. Buelna. 1989. The Hawaiian Monk Seal on Laysan Island 1983. NOAA Tech. Memo. NMFS, NOAA-TM-NMFS-SWFC-124. v + 46 pp.

Alcorn, D. J., and R. Henderson. 1984. Resumption of nursing in weaned Hawaiian Monk Seal pups. 'Elepaio 45(2): 11-12. [One observation each on Lisianski and Laysan islands.]

Alcorn, D. J., and A. K. H. Kam, 1986. Fatal shark attack on a Hawaiian Monk Seal (*Monachus schauinslandi*). Mar. Mamm. Sci. 2(4): 313-315. [By a tiger shark (*Galeocerdo cuvier*) at Laysan 28 May 1982]

Alcorn, D. J., and R. L. Westlake. 1993. The Hawaiian Monk Seal on Laysan Island: 1986. U.S. Dep. Comm., NOAA Tech. Memo. NMFS, NOAA-TM-NMFS-SWFC-191. iii + 25 pp.

Alfken, J. D. 1903. Beitrag zur Insektenfauna der Hawaiischen und Neuseeländischen Inseln. (Ergebnisse einer Reise nach dem Pacific, Schauinsland, 1896-97). Zool. Jahrb., Syst. 19: 561-628. [Reports 17 species of insects from Laysan from collections by Schauinsland] [POBSP 1586]

Allen, G. M. 1942. Extinct and vanishing mammals of the Western Hemisphere. Am. Committee for Internatl. Wild Life Protection, Lancaster, PA. 620 pp. [Laysan mentioned (pp. 456-457) in account of Hawaiian Monk Seal but entirely derivative] [POBSP 384]

Allen, J. A. 1918. The Laysan Seal. Amer. Mus. J. 18(5): 399-400. [Comments on Bailey collection of seal at Laysan; largely derivative.].

Altonn, H. 1961. Devastated atoll now teeming with birds, seals. Honolulu Star-Bulletin, September 20, 1961: A3-1. [Report about the Coolidge Expedition to Laysan in September 1961]

Altonn, H. 1970. Two convicted of trespassing on island refuge. Honolulu Star-Bulletin, June 3, 1970: A-11. [Two of four men that went ashore in April 1970 to salvage fishing long-line and glass floats from wreck of Japanese fishing boat.]

Altonn, H. 1978. Scientists studying monk seal deaths. 'Elepaio, 39(1): 11. [Excerpted from an article by Helen Altonn, Honolulu Star-Bulletin, May 18, 1978].

Amerson, A. B., Jr. 1964ms. Northwest Hawaiian Islands trip report, March 1964. Leeward Survey No. 3. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 20 pp. [Two page table 4 lists 26 species of birds seen with population estimates and some information on breeding status.] [POBSP BB 8 (pt)/ SIA 37, 163, 9]

Amerson, A. B., Jr. 1966ms a. POBSP ectoparasite survey for Laysan Island. POBSP unpublished ms., 16 May 1966, Smithsonian Institution, Washington, DC. 6 pp. [Summary of collections for visits from February 1963 through August 1965] [POBSP BB 8]

Amerson, A. B., Jr. 1966ms b. Laysan ectoparasite addendum. POBSP unpublished ms., 16 May 1966, Smithsonian Institution, Washington, DC. 1 p. [Summary of collections for visits in June 1966] [POBSP BB 8]

Amerson, A. B., Jr. 1966. *Ornithodoros capensis* (Acarina: Argasidae) infesting Sooty Tern (*Sterna fuscata*) nasal cavities. J. Parasit. 52(6): 1220-1221. [Including specimens from Laysan collected 8 August 1965] [POBSP 1653]

Amerson, A. B., Jr. 1968. Tick distribution in the central Pacific as influenced by seabird movement. J. Med. Entomol. 5(3): 332-339. [Report on collections made by the POBSP.] [POBSP 1658]

Amerson, A. B., Jr., and K. C. Emerson. 1971. Records of Mallophaga from Pacific birds. Atoll Res. Bull. 146. 30 pp. [Lists, but without specific dates, records from birds on Kure, Laysan, Midway, French Frigate Shoals, Pearl and Hermes Reef, Wake, and Johnston Atoll among others. Most of the North Pacific records are from Kure Atoll.]

Amerman, K. E. 1964ms. Laysan Island, 16-20 September 1964. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 8 pp. [Brief notes, largely on 23 species of birds and results of Hawaiian Monk Seal census conducted by the USFWS 19 September] [POBSP BB 8/ SIA 37, 163, 10]

Anonymous. 1905. An island schooner's bunch of disasters. *Paradise of the Pacific* 18(9): 17-18. [Ship *Charles Levi Woodbury* hauling fertilizer from Laysan 13 July 1905 met with bad seas and had to return to Laysan 9 August, the repaired ship reaching Oahu 3 September. During the storm 150 Laysan Finches that Max Schlemmer had intended to "dispose of" were swept overboard and drowned.] [POBSP 346]

Anonymous. 1908. Albatross on Laysan Island. *Paradise of the Pacific* 11: 15. [Very general account of albatross with species not indicated]

Anonymous. 1910a. Notes and news. *Auk* 27(2): 243-244. [On pp. 243-244 quotes from the Army and Navy Register, February 10, 1910. The Commander of the *Thetis* reports about some Japanese caught at Laysan taking in August 1909 alone 128,100 wings in 70 bales weighing 1 ton.]

Anonymous. 1910b. Government claims skins. *Pacific Commercial Advertiser*, Honolulu, February 15, 1910. [U. S. District Attorney Breckons claimed plumage seized from Japanese because the plumage was taken from what is American territory. Partial indictment expected this morning of 23 captured Japanese and "Max Schlemmer who is accused of being their American representative, if not their actual head."] [POBSP 1550]

Anonymous. 1910c. Embezzler goes to settlement -- Japanese Bird Poachers are given one week in which to plead. *Pacific Commercial Advertiser*, Honolulu, February 22, 1910. [23 poachers captured on Laysan] [POBSP 1550]

Anonymous. 1910d. Judge sustains Max Schlemmer. *Pacific Commercial Advertiser*, Honolulu, April 21, 1910. [Schlemmer excused from two indictments on technical grounds.] [POBSP 1550]

Anonymous. 1910e. Max Schlemmer again indicted. *Pacific Commercial Advertiser*, Honolulu, July 2, 1910. [Charged with bringing aliens into country unlawfully] [POBSP 1550]

Anonymous. 1913. Notes and exhibitions. *Proc. Haw. Entomol. Soc.* 3(1): 4-5. [Mentions exhibition of collections of insects of Laysan and French Frigate Shoals by Fullaway, and at Laysan by W. A. Bryan in April 1911. No specific identifications are mentioned.] [POBSP 1630]

Anonymous. 1923. Ad club hears of rabbits, birds, turtles and glass gloves. *Paradise of the Pacific* 36, July 1923: 26. [Report of a talk by Garritt Wilder to the Northwestern Hawaiian Islands many years before [presumably in 1905]. Comments are made specifically about Laysan and Lisianski.] [POBSP 1279]

Anonymous. 1930. Wilder sails for Laysan to reclaim island. *Honolulu Star-Bulletin*, July 28 1930: 1. [G. P. Wilder left 28 July on the *Pioneer* to replant

vegetation on Laysan.]

Anonymous. 1937. Laysan Island - City and County of Honolulu. Paradise of the Pacific 49(9): 20, 31. [Brief history] [POBSP 1272]

Anonymous. 1939. Manure. The Sales Builder 12(1): 2-22.

Anonymous. 1951a. Rare Laysan Duck may be effecting comeback. Honolulu Star-Bulletin, July 30, 1951 (3): 4. [The Vanderbilt Expedition (with Vernon Brock) found 19 adult and 20 young ducks, 50 Bristle-thighed Curlews; other census data are briefly given.]

Anonymous. 1951b. The Laysan Island Cyclorama and late news from Laysan. Elepaio 12(1): 1-2. [Description of cyclorama at Iowa State University. Notes on various expeditions to Laysan especially regarding changes in vegetation, rabbit and bird populations] [POBSP 772]

Anonymous. 1957. Two hardy scientists on lonely Laysan mission. Honolulu Advertiser, July 2, 1957: A3-1. [Brief report of D. H. Woodside and R. E. Warner leaving 22 June for Laysan]

Anonymous. 1966a. Photostation record, Hawaiian Islands National Wildlife Refuge (French Frigate Shoals, Laysan, Pearl and Hermes Reef), March 17 to April 5, 1966. [Unpubl. photographs available from Hawai'i Dept. Land and Nat. Resources, Div. Forestry Wildl.; not seen, from Newman 1988]

Anonymous. 1966b. Rare birds. Honolulu Star-Bulletin, May 21, 1966: A-4. [Laysan Finch and Laysan Duck breed in Honolulu Zoo.]

Anonymous. 1966c. Rare birds. Honolulu Star-Bulletin, July 21, 1966: A-4: 1. [Photo of hatchlings and mother Laysan Duck in Honolulu Zoo]

Anonymous. 1966d. Hawaii's other islands. Honolulu Star-Bulletin, December 20, 1966: D6: 1. [Good photo by Warren Roll of Laysan and of R. L. Walker. Estimates given of 10,000 Laysan Finch and 450-500 Laysan Ducks]

Anonymous. 1968. Leeward Islands rich in bird life. Part of Honolulu. Honolulu Advertiser, Nov. 17, 1968: A-10. [Interview with botanist D. Herbst about his trip which involved a visit to Laysan; photos of Laysan Albatross (*Diomedea immutabilis*) chick and flying Red-tailed Tropicbird.]

Anonymous. 1979. Laysan Island Bird Population Estimates 1979. Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 8 pp.

Anonymous. 1985ms. Trip report - biological monitoring: Tern Island, French Frigate Shoals and Laysan Island 21 March - 14 April 1985. 7 pp. Unpublished report in the files of the Fish and Wildlife Service, Honolulu, HI. [Includes 3 1/4 page annotated list of 18 breeding species recorded during visit 1-10 April.]

Anonymous. 1992. Preliminary results of 1992 Northwestern Hawaiian Islands Hawaiian Monk Seal field season given. Southwest Fish. Sci. Cent. Rep. Activities, September-October 1992: 13-15. [Laysan, visited 20 March-26 July had second highest number of births (37) since 1983. Information given on survival, tagging, entanglement and mortality; of 11 seal deaths 7 were attributed to mobbing. Data also given for Kure, Midway, Pearl and Hermes Reef, Lisianski and French Frigate Shoals.]

Anonymous. 1993a. Preliminary results presented for 1993 Northwestern Hawaiian Islands Hawaiian Monk Seal field season. Southwest Fish. Sci. Cent. Rep. Activities, September-October 1993: 9-11. [Laysan, visited 16 April-26 June and 2 August had a total population of 204 seals 20 fewer than 1992. Forty two births recorded, the second highest since 1977. Information given on survival, tagging, entanglement and mortality; of 3 seal deaths none were attributed to mobbing. Data also given for Kure, Midway, Pearl and Hermes Reef, Lisianski, French Frigate Shoals and Necker and Nihoa islands]

Anonymous. 1993b. Oil spill mars Hawaiian Islands National Wildlife Refuge. 'Elepaio 53(5): 36. [Mentions oil on Laysan, first seen washing up on 26 March 1993 and eventually oiling five miles of the coastline with tar balls and clumps of oil and oiling 15 Hawaiian Monk Seals, but fortunately no birds.]

Anonymous. 1994a. Adult male Hawaiian Monk Seals removed from Laysan Island. Southwest Fish. Sci. Center Rep. Activities Third Quarter 1994: 8. [Mortality caused seals by mobbing of one another treated by removing excess males to localities near the main Hawaiian Islands in late July and early August 1994.]

Anonymous. 1994b. Preliminary results of 1994 Hawaiian Monk Seal field studies. Southwest Fish. Sci. Center Rep. Activities October-December 1994: 4-6. [Data on populations, birth rate and survival, oiling and entanglements based on observations 23 March - 2 August. Data also given for seals at Kure, Midway, Pearl and Hermes Reef, Lisianski, and French Frigate Shoals.]

Anthony, A. W. 1924. The raided rookeries of Laysan, a belated echo. Condor 26(1): 33-34. [Of negligible value; suggests that the Red-tailed Tropicbird was formerly more common off western North America prior to depredations of this species on Laysan.] [POBSP 1141]

Aoki, J. 1964. Some oribatid mites (Acarina) from Laysan Island. Pacific Insects 6(4): 649-664. [Eight species listed from Laysan based on collections made in December 1963 all of which were previously unreported from the island. Five species,

[Laysan is mentioned but only in a very minor way; most comments are about French Frigate Shoals.]

Balazs, G. H. 1976. Green turtle migrations in the Hawaiian Archipelago. *Biol. Conserv.* 9: 125-140.

Balazs, G. H. 1979. Revised bibliography of the Hawaiian Monk Seal, *Monachus schauinslandi* Matschie 1905. Univ. Hawaii Sea Grant Misc. Rep. UNIH-SEAGRANT-MR-79-03.

Balazs, G. H. 1980a. A review of basic biological data on the Green Turtle in the Northwestern Hawaiian Islands. Pp. 42-54 in R. W. Grigg and R. T. Pfund (eds.). Proc. Symposium on Status of Resource Investigation in the Northwestern Hawaiian Islands. Seagrant Misc. Rep. UNIH-SEAGRANT-MR-80-04. [Most observations reported were at French Frigate Shoals but Laysan is mentioned and a map documents movements of adults from Lisianski to Laysan and from Laysan to French Frigate Shoals.]

Balazs, G. H. 1980b. Synopsis of biological data on the Green Turtle in the Hawaiian Islands. U.S. Dep. Comm. NOAA-TM-NMFS-SWFC 7. ix & 141 pp. [Much as above]

Balazs, G. H. 1981. Status of sea turtles in the central Pacific Ocean. Pp. 243-252 in K. A. Bjorndal (ed.). *Biology and Conservation of Sea Turtles*. Smithsonian Inst. Press/World Wildlife Fund, Washington D.C. [On p. 245 notes decline in basking and foraging aggregations at Laysan and Lisianski islands, and, to a lesser extent, at Pearl and Hermes Reef]

Balazs, G. H., H. F. Hirth, P. Y. Kawamoto, E. T. Nitta, L. H. Ogren, R. C. Wass, and J. A. Wetherall. 1990. Draft recovery plan for Hawaiian sea turtles. Hawaiian Sea Turtle Recovery Team, Honolulu Lab., Southwest Fish. Sci. Cent., Natl. Mar. Fish. Serv., NOAA, Honolulu, HI 96822-2396. 73 pp.

Balazs, G. H., H. F. Hirth, P. Y. Kawamoto, E. T. Nitta, L. H. Ogren, R. C. Wass, and J. A. Wetherall. 1992. Interim recovery plan for Hawaiian sea turtles. Southwest Fish. Sci. Cent. Admin. Rep., Honolulu, Admin. Rep. H-92-01. 76 pp. [Most of material specifically mentioning islands refers to the Green Turtle at French Frigate Shoals. P. 17 has a map showing Green Turtle movements in Hawaii including ones from Pearl and Hermes Reef to Laysan and back and forth between Laysan and French Frigates Shoals.]

Balazs, G. H., and G. C. Whittow, 1978. Bibliography of the Hawaiian Monk seal, *Monachus schauinslandi* Matschie 1905. Univ. Hawaii Inst. Marine Biol. Tech. Rep. No. 35. 27 pp.

Balcomb, K. C. 1966ms a. Summary report on the status of the Hawaiian monk seal *Monachus schauinslandi* - Laysan and Lisianski Islands, 10-22 June 1966. 7 pp. [SIA 245, Ser 7, 17, 8]

Balcomb, K. C. 1966msb. Preliminary report, Laysan Island, October 1966. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 13 pp. [Notes and estimates for 28 species of birds, turtles and skinks, and Hawaiian Monk Seal; table lists numbers of birds banded and collected] [POBSP BB 8/ SIA 37, 163, 17]

Baldwin, P. H. 1945. Fate of the Laysan Rail. Audubon. Mag. 47: 343-348. [Popular account summarizing history on Laysan and introduction and eventual extirpation from Midway Atoll] [POBSP 999]

Baldwin, P. H. 1947. The life history of the Laysan Rail. Condor 49(1): 14-21. [POBSP 964]

Ball, D. L., and J. A. Gervais. 1992ms. Trip Report: Laysan Island 17 July - 12 November 1992. Admin. Rept., U. S. Fish Wildl. Service, Honolulu, HI. 19 pp. [Reports on *Cenchrus* control; gives an annotated list of breeding birds; results of 4 shorebird censuses; notes on arthropods, vascular plants, and rainfall. Also gives a list of vagrants and dates these were seen but with no other details; the most unusual of these were a Great Crested Tern (*Sterna bergii*) seen 22 August and 5 September, a Ruff (*Philomachus pugnax*) seen 7-13 September and 23-26 October, a Semipalmated Plover (*Charadrius semipalmatus*) seen 7 and 26 September, and a Bufflehead (*Bucephala albeola*) seen 7 November. Specimens of Laysan Finch, Laysan Duck and a Sooty Storm Petrel (*Oceanodroma tristrami*) and some non-avian material were collected.]

Ball, S. C. (ms.). Field notebook kept during the 1923 Tanager Expedition. B. P. Bishop Museum, Honolulu. [Miscellaneous notes on fish, birds, etc.] [POBSP 1757]

Ballou, R. M. 1981. The Leeward Islands. Pacific Discovery 34(4): 14-25. [Narrative of trip west along Leewards in September 1980 or 1981 on the USCG Buttonwood. Ca. one page is on Laysan, but the only original information is about the kinds of work done by the USFWS.]

Banish, L. D., and W. G. Gilmartin. 1987. Preliminary investigation: hematology and serum chemistry of the young Hawaiian Monk Seal, *Monachus schauinslandi*. Southwest Fish. Cent. Honolulu Lab., Natl. Mar. Fish. Serv., NOAA, Honolulu, HI 96822-2396. Southwest Fish. Cent. Admin. Rep. H-87-13. 10 pp.

Banish, L. D., and W. G. Gilmartin. 1988. Hematology and serum chemistry of the young Hawaiian Monk Seal (*Monachus schauinslandi*). J. Wildl. Dis. 24(2): 225-230.

Banish, L. D., and W. G. Gilmartin. 1992. Pathological findings in the Hawaiian Monk Seal. *J. Wildl. Dis.* 28(3): 428-434. [Necropsies of Monk Seals collected 1981-1985 at Kure, Pearl and Hermes, French Frigate Shoals, Lisianski, Laysan, and Necker.]

Banks, R. C., and R. C. Laybourne. 1977. Plumage sequence and taxonomy of Laysan and Nihoa finches. *Condor* 79(3): 343-348. [Based in part on a series of specimens collected on Laysan in 1967.]

Barclay, S. D. 1991ms. Trip Report: Laysan, June 10 - November 8, 1991. Admin. Rep., U.S. Fish & Wildlife Service, Honolulu, Hawaii. 25 pp (and 6 unnumbered pp of notes and data). [Since 1991 there have been several trip reports by personnel continuously on Laysan controlling the weedy sand bur, *Cenchrus echinatus*). This report included the first assessment of *Cenchrus* damage and the initial plans to begin its management. It also includes a brief annotated list of the birds, results on censuses of the Laysan Duck, notes on turtles, seals, other vegetation, the "dead zone", marine debris, and level of the lake.]

Barclay, S. D. 1992ms. Laysan *Cenchrus* Project Condition (January 26 - February 3, 1992). Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 5 pp.

Bargar, K. E., and E. D. Jackson. 1974. Calculated volumes of individual shield volcanoes along the Hawaiian-Emperor chain. *J. Res., U. S. Geol. Survey* 2(5): 545-550. [Main and all of Northwestern Hawaiian Islands including Laysan.]

Bassham, B. L. 1936 ms. Cruise report of the *Reliance* for March 1936. Rec. Group 26, U.S. Nat. Arch. 2 pp. [Itinerary of visits to Nihoa, Necker, French Frigate Shoals, and Laysan, the latter visited 6-8 March. Rabbits were not seen and were thought to have become extirpated.] [POBSP 1736]

Bauer, D., and V. Gauger. 1994ms. Trip Report: Laysan Island 07 November 1993 - 12 June 1994. Admin. Rep., U.S. Fish Wildl. Serv., Honolulu, HI. 27 pp. and 15 unnumbered pp. of figures and notes. [Data on *Cenchrus* control, estimations of nesting Black-footed and Laysan Albatrosses from transect censuses, censuses of Laysan Ducks, island wide counts of nests of Black Noddies, results of monthly shorebird counts, annotated list of breeding and vagrant birds, annotated list of vascular plants, and notes on the "dead zone", lake conditions, monk seals, and weather. Nesting distributions Black Noddy mapped]

Bauer, E. A. 1972a. Hawaiian Islands National Wildlife Refuge. *Sea Frontiers* 18(6): 346-356. [Report of USFWS survey trip west along the Leewards in September 1971. Has ca. 3 pp on Laysan; also mentions Lisianski, Gardner Pinnacles, French Frigate Shoals, Necker and Nihoa.]

Bauer, E. A. 1972b. Voyage of the *Buttonwood*. *Outdoor Life*, May 1972, pp. 57-59, 118, 120, 122. [Another account of the 1971 trip with part of p. 120 devoted to Laysan.]

Bauer, E. A. 1972c. The unknown Hawaiian Islands. *Animals* 15: 496-503. [Yet another account of the 1971 trip of the *Buttonwood*; two-three pages of text and photographs on Laysan.]

Baylis, J. S. 1934 ms. Cruise report for the *Itasca* for the month of June 1934. Rec. Group 26, U.S. Nat. Arch. 6 pp. [Itinerary of visits to the Northwestern Hawaiian Islands with a few notes on birds, seals, and turtles on Laysan (visited 26 June), and the other islands] [POBSP 1547]

Bean, E. 1985ms a. Trip report - Laysan Island, 1 April - 21 July 1985. Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 24 pp. [Includes notes on nesting species and maps of Red-footed Booby (*Sula sula*), Sooty and White tern nesting locations.]

Bean, E. 1985ms b. Laysan Report: Laysan Drift Fence, October 2 - October 16, 1985. Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 7 pp.

Bean, E., D. Hu, and R. [L.] Pyle. 1985ms. Trip report - Biological monitoring: Tern Island, French Frigate Shoals and Laysan Island 21 March - 14 April 1985. Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 29 pp. [Laysan visited 1-10 April. Report gives ca. 3 pp. annotated list of breeding birds seen; censuses were also made of Great Frigatebirds, Red-footed Boobies, Laysan Finches and Laysan Ducks, and a map indicates nesting areas of the Red-footed Booby.]

Beardsley, J. W. 1966. Insects and other terrestrial arthropods from the Leeward Hawaiian Islands. *Proc. Haw. Entomol. Soc.* 19(2): 157-185. [Gives lists of arthropods collected in September 1964 at Nihoa, Necker, French Frigate Shoals, Lisianski, Pearl and Hermes Reef, and Kure Atoll. Comments are made on several species at Laysan including the first record for a spider, *Chiracanthium diversum* L. Koch, and one for a lizard, *Ablepharus boutonii*.] [POBSP 1559, 1799]

Beccari, O, and J. F. Rock. 1921. A monographic study of the genus *Pritchardia*. *Mem. B. P. Bishop Mus.* 8(1): 1-77. [Notes occurrence, p. 13, of *Pritchardia*, probably *P. remota*, on Laysan]. [POBSP 579]

Becker, B. L., P. A. Ching, L. M. Hiruki, and S. A. Zur. 1994. The Hawaiian Monk Seal on Laysan Island, 1987 and 1989. U.S. Dep. Commer., NOAA Tech. Memo. NOAA-TM-MNFS-SWFSC-213. 20 pp. [Data on populations, behavior, reproduction, factors affecting survival and interatoll movement from visits 8 April-20 July 1987 and 30 March-16 July 1989. Excluding pups, beach counts in 1987 averaged 130.1 individuals (n = 26) and in 1989 averaged 82.8 individuals (n = 26). Tables 5A

and 5B (p. 18) summarize movements during these years. Six, 7, and 1 movements involved seals moving to Laysan from French Frigate Shoals, Lisianski and Pearl and Hermes Reef, respectively, and 5, 4, and 1, were recorded as moving to these same islands, respectively.]

Becker, B. L., J. R. Klavitter, L. P. Laniawe, W. A. Machado, T. J. Ragen, and Molly B. Tarleton. 1995. The Hawaiian Monk Seal on Laysan Island, 1992. Pp. 23-36 in T. C. Johanos, C., L. M. Hiruki, and T. J. Ragen. The Hawaiian Monk Seal in the Northwestern Hawaiian Islands, 1992. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-128. 128 pp. [Data from a visit 23 March-25 July 1995 on populations, reproduction, factors affecting survival, and interatoll movement. Tables 3.5a and 3.5b (p. 35) summarize 1992 movements without giving details. Six, 4, and 1 movements involved seals moving to Laysan from French Frigate Shoals, Lisianski and Pearl and Hermes Reef, respectively, and 9 and 5, were recorded as moving to French Frigate Shoals and Lisianski, respectively.]

Becker, B. L., R. J. Morrow, and J. K. Leialoha. 1989. Censuses and interatoll movements of the Hawaiian Monk Seal on Laysan Island, 1985. U.S. Dep. Comm., NOAA Tech. Memo. NMFS-SWFC-135. 25 pp. [Data from survey conducted from 2 March to 30 November 1985. Excluding pups, 86 censuses ranged from 76-147 animals ($\bar{x} = 117.6$), an increase of almost 20% from the preceding year. Table 1 lists movements of 9 animals in 1985, involving movements to and from Lisianski and French Frigate Shoals with a net gain of 3 animals to the Laysan population.]

Becker, B. L., K. E. O'Brien, K. B. Lombard, and L. P. Laniawe. 1995. The Hawaiian Monk Seal on Laysan Island, 1991. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-215. 16 pp. [Data obtained on populations, reproduction, interatoll movement and factors affecting survival from visit 31 March-22 July. Excluding pups, 37 censuses averaged 69.1 individuals, with a total spring population of 248 seals. There were 3, 4, and 1 movements to Laysan from French Frigate Shoals, Lisianski and Pearl and Hermes Reef, respectively and 3, 4 and 1 movements to these islands, respectively.]

Benson, B. 1970. Island refuge chain is off limits. Honolulu Advertiser, October 13, 1970: C-8. [Excerpts from trespasser's journal 8-17 April 1970]

Benson, B. 1973. Laysan Island, the last refuge. Honolulu Advertiser, April 8, 1973. H-4. [Not seen; a popular account with two pictures vide Bryan 1978]

Berger, A. J. 1970a. The present status of the birds of Hawaii. Pacific Sci. 24(1): 29-42. [Briefly discusses each of the endemic birds of Laysan]

Berger, A. J. 1970b. The Leeward Islands. Oceans, 3(15): 22-33. [Account of two Leeward surveys in 1966 with 3-4 pp. devoted to Laysan.]

Berger, A. J. 1981. Hawaiian Birdlife. University Press of Hawaii, Honolulu. Second edition. 260 pp. [Section on Laysan Island with several references to birds there.]

Bergh, R. 1900. Ergebnisse einer Reise nach dem Pacific (Schauinsland, 1896-97). Die Opisthobranchier. Zool. Jahrb., Syst. 13: 207-246. [Three species reported from Laysan: *Chelidonura hirundinina* (Q. et G.) var. *elegans* subsp. nov.; *Samla annuligera* gen. et sp. nov; Bgh., *Phyliroë atlantica* Bgh.] [POBSP 1592]

Bergman, C. 1991. Rescuing Hawaii's "brine children" with a head start. Smithsonian 22(9): 86-97. [Provides a few remarks on information about monk seals on Laysan; most of remarks deal with French Frigate Shoals]

Berry, S. S. 1910. Diagnoses of new cephalopods from the Hawaiian Islands. Proc. U.S. Nat. Mus. (No. 1713): 407-419. [Includes two species recorded by Schauinsland.]

Bitter, G. 1900. Die phanerogamische Pflanzenwelt der Insel Laysan. Abh. Nat. Ver. Bremen 16: 430-439. [Reports 26 species of vascular plants collected by Schauinsland; two are described as new species: *Solanum laysanense* [= *Solanum nelsoni*], *Phyllostegia* [= *Eragrostis*] *variabilis*] [POBSP 368, English translation]

Boersma, P. D. 1986. Ingestion of petroleum by seabirds can serve as a monitor of water quality. Science, 231(4376): 373-376. [Some samples came from Laysan]

Boness, D. 1990. Who's the mother. Fostering behavior in endangered Hawaiian Monk Seals. Zoogoer 19(3): 10-13. [Laysan mentioned in a minor way in comparisons to observations in a study made at French Frigate Shoals.]

Boswell, M., and B. S. Keitt. 1995ms. Trip Report: Laysan Island, 17 October, 1994 - 11 March, 1995. Admin. Rep., U.S. Fish Wildl. Serv., Honolulu, HI. 35 pp. [Information on *Cenchrus* control, estimates of population size of breeding albatross, census of Laysan Ducks, results of monthly shorebird surveys, notes on nesting by Red-tailed Tropicbirds and Black Noddies, notes on breeding birds, plants, weather, vagrant birds and lake level. The most notable reports of vagrants were a Yellow-billed Cuckoo (*Coccyzus erythrophthalmus*) seen 1 November and Black Terns (*Chlidonias niger*) seen 21 December 1994 and 11 January and thought to be different individuals.]

Brand, A. 1913. Hydrophyllaceae. Pflanzenreich IV, 251 (Heft 59): 1-210. [On p 152 describes var *laysanicum* of *Nama sandvicense*.]

Brennan, J. M., and A. B. Amerson, Jr. 1971. Six new species and additional records of chiggers from the central Pacific (Acarina: Trombiculidae). J. Parasitol. 57(6): 1311-1317. [Includes records from Laysan including paratypes of *Schoengastia pobsa* sp. n. from Laysan Finch on Laysan 11 June 1966. Also records for Wake and

Baker Islands, Johnston Atoll, and the Phoenix, Line and Marshall Islands.]

Brock, V. E. 1951a. Some observations on the Laysan Duck, *Anas wyvilliana laysanensis*. Auk 68(3): 371-372. [Count of birds 23 June 1950 compared with counts obtained in 1911, 1925, and 1936] [POBSP 976]

Brock, V. E. 1951b. Laysan Island bird census. 'Elepaio, 12(3): 17-18. [Compares count made during one day in 1951 with those made by Dill in 1911.] [POBSP 773]

Brooks, N. C. 1859a. Cruise of the Gambia. Pacific Comm. Advertiser, 11 Aug. 1859.

Brooks, N. C. 1859b. "Laysan Island with track of U.S. Bark Gambia, N. C. Brooks, Commander . . . Wood, water, seals, turtle, fish, fowls, and eggs..." 7 Scale 1 inch to 1/3 mile. 16 1/2 x 12 1/2 inches. Filed as 272.8, records of the Hydrographic Office, in Nat. Archives. Fide: H. R. Friis, 1961. U.S. Scientific Geographical Exploration of the Pacific Basin 1783-1899. [(An exhibit prepared for the Tenth Pacific Science Congress, Honolulu, 1961.)]

Brooks, N. C. 1860. Islands and reefs west-north-west of the Sandwich islands. Pacific. Naut. Mag. 29: 499-504. [Pp. 500-501 describe Laysan as seen during a visit in May 1859; states he collected 25 varieties of plants, that reefs there had abundant fish and turtle, and that the guano deposit was too small to make it worth mining] [POBSP 487]

Brown, J. H. 1914 ms. Report to the Captain Commandant of the Revenue Cutter Service of a cruise to the "Bird Islands" in September 1914. Unpublished ms. material, Rec. Group 26, U.S. Nat. Arch. 4 pp. [Landings made on Bird (Nihoa), Necker, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Reef and Midway with no evidence of bird poachers being found. Notes decrease in rabbits at Laysan and Lisianski with only two live animals seen at the latter island.] [POBSP 1547]

Brown, J. H. 1915 ms. Report to the Captain Commandant of the Coast Guard of observations made during a cruise to Laysan, Lisianski, etc., in March 1915. Rec. Group 26, U.S. Nat. Arch. 14 pp. [Landings made from the *Thetis* at most of the Northwestern Hawaiian Islands. Brown made estimates of bird populations at Nihoa and French Frigate Shoals and reported that Laysan had been visited by raiders who had slaughtered a great number of birds.] [POBSP 1547]

Brown, J. H. 1916 ms. Report to the Captain Commandant of the Coast Guard of the Cruise made to the Hawaiian Bird Reservation in February 1916. Rec. Group 26, U.S. Nat. Arch. 12 pp. [Provides some details of visits to Northwestern Hawaiian Island in addition to those made by Munter.] [POBSP 1547]

Browne, R. A., C. R. Griffin, P. R. Chang, M. Hubley, and A. E. Martin. 1993. Genetic divergence among populations of the Hawaiian Duck, Laysan Teal, and Mallard. *Auk* 110(1): 49-56. [Gives 1978 population estimate for the Laysan Teal that may not have been published elsewhere]

Bryan, E. H., Jr. 1926a. Introduction [to Insects of Hawaii...]. *Bernice P. Bishop Mus. Bull.* 31: 3-16. [General description of atolls with table listing species known from each of the islands.]

Bryan, E. H., Jr. 1926b. Coleoptera. Pp. 46-49 *in* E. H. Bryan, Jr. et al. 1926. [Lists 5 species from Laysan]

Bryan, E. H., Jr. 1926c. Diptera. Pp. 67-71 *in* E. H. Bryan, Jr. et al. 1926. [Lists 10 species from Laysan from specimens collected there in 1923]

Bryan, E. H., Jr. 1926d. Orthoptera. Blattidae. P. 89. *in* E. H. Bryan, Jr. et al. 1926. [Lists 1 roach from Laysan from specimens collected there in 1923]

Bryan, E. H., Jr. 1926e. Other orders. Pp. 90-91. *in* E. H. Bryan, Jr. et al. 1926. [Specimens from a variety of orders were reported from Laysan from April 1923 collections but only one Embiidina was (questionably) identified to species]

Bryan, E. H., Jr. 1926f. Insects of the Tanager Expedition. *B. P. Bishop Mus. Spec. Publ.* 11: 31. [Brief abstract mentioning insect fauna in relation to ecological conditions]

Bryan, E. H., Jr. 1932. Notes and exhibitions. Flies from Laysan Island. *Proc. Haw. Entomol. Soc.* 8(1): 3. [Reports 4 species collected on Laysan in August 1930] [POBSP 1605]

Bryan, E. H., Jr. 1934. A review of the Hawaiian Diptera, with descriptions of new species. *Proc. Haw. Entomol. Soc.* 8(3): 399-468. ["About 325 species" are discussed and tabulated, among them 5 species then known from Laysan: *Hydrophorus pacificus*, *Lucilia graphita*, *Limosina venalicia*, *Scatella sexnotata*, and *Olfersia spinifera*.]

Bryan, E. H., Jr. 1935. Hawaiian Nature Notes. Honolulu Star Bulletin, Ltd., Honolulu. 285 pp. [Chapter on NW Hawaiian Islands and story of "old stump leg", a "pet" Golden Plover (*Charadrius dominica*) of Max Schlemmer's on Laysan.]

Bryan, E. H., Jr. 1938. Laysan, an island of Hawaii. *Paradise of the Pacific* 50(6): 21, 28-31. [Popular account of history and natural history; photograph shows the desolate condition of the island in 1923 when the island had been largely denuded of vegetation by rabbits] [POBSP 427]

Bryan, E. H., Jr. 1939. We see only the peaks.. Paradise of the Pacific 50(12), 13-16. [General description of the Northwestern Hawaiian Islands with several paragraphs on Laysan.] [POBSP 414]

Bryan, E. H., Jr. 1942. American Polynesia and the Hawaiian Chain. Tongg Publ. Co., Honolulu. 253 pp. [POBSP 98]

Bryan, E. H., Jr. 1954. The Hawaiian Chain. B.P. Bishop Mus. Press, Honolulu. iii and 71 pp. [POBSP 88]

Bryan, E. H., Jr. 1956. Plants record from Laysan and Midway islands. Pp 18-21 in Bailey, A. M., Birds of Midway and Laysan Islands. Denver Mus. Nat. Hist., Mus. Pictorial 12.

Bryan, E. H., Jr. 1958. Check list and summary of Hawaiian birds. Books about Hawaii, Honolulu. 28 pp. [Check list notes occurrence of many vagrants at Laysan to date of publication of list.] [POBSP 4]

Bryan, E. H., Jr. 1964. Gulls on Pacific Islands. 'Elepaio, 24(11): 53-54. [Mentions Laysan but apparently only secondary information.] [POBSP 933]

Bryan, E. H., Jr. 1978. The Northwest Hawaiian Islands: An Annotated Bibliography. U.S. Fish & Wildlife Service, Honolulu, Hawaii. April, 1978. 136 pp. [A more than usually valuable bibliography with useful annotations, based to a fair degree on Atoll Research Bulletins published on these islands 1969-1974 (and faithfully incorporating some errors in those sources). Gives one or two page summary on each island, a map, and a check-list indicating occurrence on each island for mammals, birds, and plants]

Bryan, E. H., Jr. et al. 1926. Insects of Hawaii, Johnston Island and Wake Island. B. P. Bishop Mus. Bull. 31: 94 pp. [Includes papers by a number of authors that are included elsewhere in this bibliography] [POBSP 19]

Bryan, E. H., Jr., and J. C. Greenway, Jr. 1944. Contribution to the ornithology of the Hawaiian Islands. Bull. Mus. Comp. Zool., Harvard 94: 79-142. [Brief history of ornithology in Hawaii with a detailed distributional list that includes some previously unpublished material. Laysan is mentioned frequently but usually derivatively. Original information for Laysan includes a count of 9 Laysan Ducks in 1936, the mention of a Harlequin Duck (*Histrionicus histrionicus*) specimen from a 1906 collection, and occurrence of Black-legged Kittiwake (*Rissa tridactyla*) from fragments in the Bishop Museum collection; a lapsus lists the Laysan Finch as extinct.]

Bryan, W. A. 1910. Bird slaughter on the Pacific islands. Bird Lore 12(): 90-93.

Bryan, W. A. 1911. Laysan Island, a visit to Hawaii's bird reservation. Mid-

Pacific Mag. 2(4): 303-315. [Description of Laysan, particularly vegetation and birds with several photographs] [POBSP 277]

Bryan, W. A. 1912. The introduction and acclimatization of the Yellow Canary on Midway Island. Auk 29(3): 339-342. [Details importation to Midway of Laysan Finches obtained on Laysan in May and September 1905] [POBSP 973]

Bryan, W. A. 1915. Natural history of Hawaii. Hawaiian Gazette Co., Ltd., Honolulu. 596 pp. [Popular account with geographic notes on Northwestern Hawaiian Islands atolls in Chapter 8 and account of birds in Chapter 23] [POBSP 216]

Butler, G. D., Jr. 1961a. Stratiomyiid fly associated with dead albatrosses on Laysan Island. Proc. Haw. Entomol. Soc. 17(3): 331-332. [Observations of *Brachycara latifrons* James in July 1959] [POBSP 1539]

Butler, G. D., Jr. 1961b. Insects and other arthropods from Laysan Island. Proc. Haw. Entomol. Soc. 17(3): 379-387. [Summarizes earlier reports and reports 68 insects, an isopod, 3 species of Acarina, and 5 Araneida from collections made in April and July 1959.] [POBSP 1195]

Butler, G. D., Jr., and M. D. F. Udvardy. 1966. Basking behavior of the Hawaiian monk seal on Laysan Island. J. Wildl. Manage. 30: 627-628. [Observations made in July 1959] [POBSP 1538]

Butler, G. D., Jr., and R. L. Usinger. 1963. Insects and other invertebrates from Laysan Island. Atoll Res. Bull. 98: 1-30. [Summarizes records from earlier literature and additional collections made by the authors in September 1961 and by John W. Beardsley in June 1962. Lists ca 189 species from Laysan, mostly insects, but including 2 land-snails, 6 Acarina, 7 spiders, 1 isopod, 1 chilopod, and 81 insects, some not determined to species and or genus. There are first reports for the atoll for 3 Acarina and 2 Araneida.] [POBSP 1366]

Byrne, J.E. 1979. Literature Review and synthesis of Information on Pacific Island Ecosystems. Coastal Ecosystems Project, Biological Services Program, U. S. Fish & Wildlife Service, Washington, D.C. FWS/OBS-79/35. [Includes Hawaii with some mention of the Hawaiian Islands' NWR]

Cairns, S. D. 1978. *Distochopora (Haplomerismos) anceps*, a new Stylasterine coral (Coelenterata: Stylasterina) from deep water off the Hawaiian Islands. Micronesica 14(1): 83-87. [Species described from four specimens taken offshore Laysan 27 July 1972]

Cairns, S. D. 1984. New records of ahermatypic corals (Scleractinia) from the Hawaiian and Line Islands. B. P. Bishop Mus. Occ. Pap. 25(10): 1-30. [Apparently includes at least one new record from Laysan Island].

Carlquist, S. 1965. *Island Life: A Natural History of the Islands of the World*. The Natural History Press, Garden City, New York. 451 pp. [Photo on p. 225 of stuffed Laysan Rails (*Porzana palmeri*) in chapter on flightless or near flightless fauna of islands.]

Carlquist, S. 1974. *Island Biology*. Columbia Univ. Press, New York, NY. 660 pp. [Derivative, but copious information about Laysan biota]

Carlquist, S. 1980. *Hawaii, a Natural History*. 2nd ed. Hawaii, Kauai: Pacific Tropical Botanical Garden. 468 pp. [1st edition was 1970, Natural History Press, Garden City, NY. 463 pp. [Chapters are devoted to each of the Northwestern Hawaiian Islands. The chapter on Laysan contains many B&W photos including ones of extinct endemic birds and the endemic plant *Nama sandwicensis* var. *laysanicum*.]

Caspers, H. 1968. Biology of a hypersaline lagoon in a tropical atoll island (Laysan). Pp. 326-333 in R. Misra and B. Gopal (eds.). *Proc. Symp. on Recent Advances in Tropical Ecology*. Internat. Soc. Trop. Ecol., Varanasai, India. [Mostly on relationship of Laysan Duck and epydrid flies]

Caspers, H. 1981. On the ecology of the hypersaline lagoons on Laysan Atoll and Kauai Island, Hawaii, with special reference to the Laysan Duck, *Anas laysanensis* Rothschild. *Hydrobiologia* 82: 261-270.

Cate, J. M. 1963. Revision of Dall's Hawaiian mitrids with descriptions of three new species. *Veliger* 6(1): 23-43. [The type series of *Vexillum kewaloensis* sp. nov. includes a specimen from Laysan; also mentioned as occurring on Laysan is *Pusia alveolus* Reeve 1845.]

Cernohorsky, W. 1976. The Mitridae of the world. Part I. The subfamily Mitrinae. *Indo-Pacific Mollusca* 3(17): 273-528. [Records *Mitra (Strigatella) typha* Reeve 1845 from Laysan Island from a USNM specimen (p. 501); all other Northwestern Hawaiian Islands records for other species are from Midway Atoll.]

Chamberlain, R. V. 1926. Chilopoda. Pp. 92-94 in E. H. Bryan, Jr. et al. 1926. [*Honuaphilus alohanus* sp. nov. is reported from April 1923 collections on Laysan and other Northwestern Hawaiian Islands] [POBSP 339]

Chang, P. R. 1990. Strategies for managing endangered waterbirds on Hawaiian National Wildlife Refuges. M.S. thesis, Univ. Mass. 87 pp. [Not seen but probably mentions Laysan.] WR 225

Chapin, E. A. 1925. Descriptions of new internal parasites. *Proc. U.S. Nat. Mus.* 68 (No. 2603): 1-4. [Nematode *Contraecaecum turgidum* described as new species, cestode, *Bothriocephalus* sp.? reported from a Hawaiian Monk Seal collected at Laysan by Wetmore 8 April 1923 during the Tanager Expedition] [POBSP 1590]

Ching, P. 1994. The Hawaiian Monk Seal. Honolulu, Univ. Hawaii Press. v & 40 pp. [Popular picture book on habits and conservation of the seal. The only specific mention of Laysan is a picture of on p. 31 of gray reef sharks just offshore]

Christiansen, K., and P. Bellinger. 1992. Insects of Hawaii. Vol. 15. Collembola. Univ. Hawaii Press, Honolulu. viii + 445 pp. [Records from Kure, Midway, Pearl and Hermes Reef, Laysan, French Frigate Shoals and Nihoa; four species are listed from Laysan, three from specimens, *Oudemansia esakii* (Kinoshita) p. 61, collected 24 July 1983, *Seira terrestris* (Folsom) p. 270, based on a 1961 Butler specimen, and, *Cyphoderus similis* Folsom, p. 316, collected 26 July 1983, as well as a putative record of *Entomobrya* (*Entomogrya*) *griseoolivata* (Packard), p. 212, based on a report by Butler and Usinger (1963).]

Christophersen, E. and E. L. Caum. 1931. Vascular plants of the Leeward Islands, Hawaii. B.P. Bishop Mus. Bull. 81. 41 pp. [Reports 24 species of vascular plants collected by the Tanager Expedition and summarizes records and observations from visits in 1896, 1902, 1903, and 1911] [POBSP 513]

Clapp, R. B. 1968ms. Leeward survey No. 22, Preliminary report, Laysan report, Laysan Island. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 15 pp. [Notes and estimates for 26 species of birds, reptiles, and Hawaiian Monk Seal, the census of the latter obtained by USFWS personnel; also provides notes on seal tagging and a list of seals tagged and returned] [POBSP BB 8]

Clapp, R. B. 1969ms. [Extract of unpublished material in the U. S. Fish and Wildlife Service Office, Honolulu] 14 pp, typescript. [Data from 3 x 5 file cards that include extracts from unpublished reports that may otherwise no longer exist. Brief notes on birds from George Willet's Report on the Bureau of Biological Survey Expedition to the Northwestern Hawaiian Islands in 1912-1913 include remarks on birds on Necker, Nihoa, French Frigate Shoals, Lisianski, Pearl and Hermes Reef, and Laysan, information on the latter including some information not in Bailey's subsequent publication. Extract also includes observations made in September 1918 by a William Todd at Necker, Nihoa, French Frigate Shoals, Laysan and Kure Atoll, observations made on Laysan in May 1924 by G. P. Wilder, and notes on Laysan from a letter from W. F. Coultas regarding a visit there 15 December 1936.] [POBSP 1560]

Clapp, R. B. 1974. Albinism in the Black Noddy (*Anous tenuirostris*.) Condor 76(4): 464-465. [Specimen taken on Laysan.]

Clapp, R. B. 1980ms. Ornithological observations. Northwestern Hawaiian Islands -- November 1980. Admin. Rep., National Biological Survey, U. S. National Museum, Washington DC. 19 pp. [Observations on Nihoa, French Frigate Shoals, Laysan (16-17 November), Pearl and Hermes Reef and Midway]

Clapp, R. B. 1986. A summary of alcid records from Hawaii. Colonial

Waterbirds 9(1): 104-107. [Provides more information on specimens from Laysan and elsewhere than was available in earlier publications]

Clapp, R. B., and C. A. Ely. 1967ms. Leeward survey No. 21, Preliminary report, Laysan Island. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 14 pp. [Notes and estimates for 26 species of birds and the snake-eyed skink. Table lists 4083 individuals of 15 species banded and 268 recaptures for 13 species (including 28 interisland recaptures for 4 species including 2 Ruddy Turnstones from Alaska.) [POBSP BB 8/SIA 37, 163, 20]

Clapp, R. B., and J. B. Giezantanner. 1980. Tufted Puffin from Laysan - First occurrence in the tropical Pacific. *Elepaio* 40(9): 120-121. [Remains of *Fratercula corniculata* (USNM 576074) found 13 April 1977 on mud flat at north end of lagoon.]

Clapp, R. B., V. M. Kleen and D. L. Olsen. 1969. First records of Emperor Geese from the Northwestern Hawaiian Islands. *Elepaio* 30(6): 51-52. [Records from Kure, Midway and Laysan. One *Philacte canicagica* xx seen on Laysan 27-29 March 1969.] [POBSP 1810]

Clapp, R. B., M. K. Klimkiewicz, and J. H. Kennard. 1982. Longevity records of North American birds: Gaviidae through Alcidae. *J. Field Ornithol.* 53(2): 81-124. [Longevity records for *Bulweria bulwerii* and *Anas laysanensis*, both banded on Laysan.]

Clapp, R. B. and F. C. Sibley. 1967. New records of birds from the Phoenix and Line Islands. *Ibis* 109: 122-125.

Clapp, R. B. and P. W. Woodward. 1968. New records of birds from the Hawaiian Leeward Islands. *Proc. U.S. Nat. Mus.* 124 (No. 3640). 39 Pp. [From Laysan reports the first specimens for Hawaii for Marbled Godwit (*Limosa fedoa*), and Greater Yellowlegs (*Tringa melanoleuca*) as well as first records for Laysan for the Lesser Yellowlegs (*Tringa flavipes*) (sight record), Red-necked Phalaropes (*Phalaropus lobatus*) and the Horned Puffin (*Fratercula corniculata*)(both of the latter from specimens.) [POBSP 1654]

Clark, A. H. 1908. Descriptions of new species of crinoids, chiefly from the collections made by the U. S. Fisheries steamer "Albatross" at the Hawaiian Islands in 1902; with remarks on the classification of the Comatulida. *Proc. U.S. Nat. Mus.* 34 (No. 1608): 209-244. [Describes two species collected offshore (*Iridometra crispa* (p. 218), *Thalassometra delicata* (p. 225)) by the Albatross Expedition] [POBSP 1576]

Clark, A. H. 1949. Ophiuroidea of the Hawaiian Islands. *B.P. Bishop Mus. Bull.* 195. 133 pp. [Reports 6 species of brittle stars from collections made by the Albatross Expedition and gives summary lists of other echinoderms previously collected at Laysan] [POBSP 1172]

Clark, H. L. 1912. Notes on the Laysan Finch. Auk 29(2): 166-168. [Notes on morphology of an alcoholic specimen obtained at Laysan by W. K. Fisher] [POBSP 972]

Clark, H. L. 1925. Echinoderms other than sea stars. Pp. 89-111 in Edmondson et al. 1925. Reports 8 brittle-stars (Ophiuroidea), 7 sea-urchins (Echinoidea), and 9 sea-cucumbers (Holothurioidea) collected at Laysan by the Tanager Expedition; describes one brittle-star (*Ophiologimus quadrispinus*) from Laysan as a new species.] [POBSP 1150]

Cochran, C. S. 1910ms. a. Report to the Secretary of the Treasury of a survey of the Hawaiian Bird Reservation in August and September 1910. Rec. Group 26, U.S. Nat. Arch. 2 pp. [All Northwestern Hawaiian Islands were visited with landings being made at Midway, Lisianski, Laysan and French Frigate Shoals. Reports that no evidence was found that the birds had been molested] [POBSP 1547]

Cochran, C. S. 1910ms. b. Report to the Captain Commandant of the Revenue Cutter Service of an inspection of the Hawaiian Bird Reservation in April and May 1912. Rec. Group 26, U.S. Nat. Arch. 2 pp. [Landings made at Laysan (22 April) and at Lisianski (23 April) revealed no signs that the birds had been molested.] [POBSP 1547]

Cochran, C. S. 1913ms a. Report to the Captain Commandant of the Revenue Cutter Service of a cruise to the Hawaiian Bird Reservation in December 1912. Rec. Group 26, U.S. Nat. Arch. 4 pp. [Landings made at French Frigate Shoals, Pearl and Hermes and Laysan, at the latter on 22 and 31 December during which period D. T. Fullaway was collecting insects.] [POBSP 1547]

Cochran, C. S. 1913ms b. Report to the Captain Commandant of the Revenue Cutter Service of a cruise to the Hawaiian Bird Reservation in March 1913. Rec. Group 26, U. S. Natl. Archives. 4 pp. [Landings made at Laysan (11 March), Lisianski (12 March), Midway (14 March) and Pearl and Hermes Reef (15 March), with George Willet swimming ashore at Necker (19 March). 46 Laysan Rails were introduced to Lisianski from Laysan and a pup seal and turtle were taken at Pearl and Hermes Reef.] [POBSP 1547]

Conant, S. 1985ms. Trip Report - Expedition to Laysan Island, 28 February to 14 April 1985. Report to USFWS, Honolulu, HI. [Mostly observations on Laysan Finch, but some also on Laysan Duck and shorebirds]

Conant, S. 1988a. Geographic variation in the Laysan Finch (*Telespiza cantans*). Evol. Ecol. 2(3): 270-282.

Conant, S. 1988b. Saving endangered species by translocation: are we tinkering with evolution? BioScience 38(4): 254-247. [Compares meristics of Laysan Finches

and *Tribulus mericarps* on Laysan and Pearl and Hermes Reef.]

Conant, S., C. C. Christensen, P. Conant, W. C. Gagne' and M. L. Goff. 1984. The unique terrestrial biota of the Northwestern Hawaiian Islands. Pp 77-94 in R. W. Grigg and K. Tanoue (eds.). Proceedings of the Second Symposium on Resource Investigations in the Northwestern Hawaiian Islands. UNIH I SEAGRANT-MR-84-01. Vol. 1. [Species endemic to the Northwestern Hawaiian Islands include at least 8 land snails, 12 plants, 4 land birds, and more than 50 arthropods. Laysan was reported to have 6 endemic plants, 5 terrestrial molluscs, and 17 endemic terrestrial arthropods, the latter a larger number than any other Northwestern Hawaiian Islands except Nihoa.]

Conant, S., R. C. Fleischer, M. P. Morin, and C. L. Tarr. 1992. When endangered species are aliens: Some thoughts on the conservation of rare species. Pacific Sci. 46(3): 401-402. In: R. H. Cowie (ed.) The impact of alien species on island ecosystems: Extended abstracts of a symposium, 30 May 1991, Honolulu, Hawaii. XVII Pacific Science Congress. [On Laysan Island and translocated Laysan Finch populations].

Coultas, W. F. (ms.). [Notes taken on Laysan Island, 15 December 1936]. Extracts from a letter in the files of the Bureau of Sport Fisheries and Wildlife, Honolulu. 1 p. [Brief notes on 19 species of birds] [POBSP 1560]

Craig, M. P., J. L. Megyesi, C. S. Hall, J. L. Glueck, L. P. Laniawe, E. A. Delaney, S. S. Keefer, M. A. McDermond, M. Schulz, G. L. Nakai, B. L. Becker, L. M. Hiruki, and R. J. Morrow. 1994. The Hawaiian Monk Seal at French Frigate Shoals, 1990-91. U. S. Dep. Commer., NOAA Tech. Memo. NMFS-SWFSC-210. 70 pp. [Data given on populations, reproduction, factors affecting survival, and interatoll movements based on observations made 6-16 May, 13 June-20 August, and 23-29 September 1990 and 24-26 January and 28 March-5 September 1991. Table 16 (p. 44) lists movements of six seals between French Frigate Shoals and Laysan.]

Crossin, R. S. 1965ms a. Island report--July 1965. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 14 pp. [Mostly notes and/or estimates for 21 species of birds; also lists tick incidence for 10 species of birds and returns or sightings of tagged birds for 5 species.] [POBSP BB 8/SIA 37, 163, 14]

Crossin, R. S. 1965ms b. Island report...August 1965. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 16 pp. [Notes and/or estimates for 23 species of birds; also provides data on incidence of ticks on birds, totals banded, band returns, and the results of a Hawaiian Monk Seal census conducted 6 August] [POBSP BB 8/SIA 37, 163, 15]

Crossin, R. S. 1966ms a. Leeward Island survey No. 13, June 1966. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 18 pp. [Largely notes and estimates for 22 species of birds; also provides information on collection of ticks, reptiles, birds, totals for birds banded, and data on band returns and recoveries] [POBSP

BB 8/SIA, 37, 163, 16]

Crossin, R. S. 1966ms b. Notes on the Laysan Finch (*Psittirostra cantans*). Leeward Islands Survey No. 13. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 10 pp. [Observations made in June 1966 of feeding and food, roosting habits, color and plumage, and data on nesting, nest sites, eggs, and young] [POBSP BB 8, SIA 245, Ser. 7, 17, 8]

Crossin, R. S. 1974. The Storm Petrels (Hydrobatidae). Pp. 154-205 in W. B. King (ed.). Pelagic studies of seabirds in the Central and Eastern Pacific Ocean. Smithsonian Contr. Zool. 158. [Pelagic range maps and sightings, including waters around Laysan].

Crossin, R. S. and L. N. Huber. 1970. Sooty Tern egg predation by Ruddy Turnstones. Condor 72(3): 372-373. [Cites A. Wetmore (pers. comm.) to the effect that there was heavy predation on Sooty and Gray-backed (*Sterna lunata*) Tern eggs on Laysan in 1923.]

Culliney, J. L. 1988. Islands in a Far Sea. Nature and Man in Hawaii. Sierra Club Books, San Francisco, CA. xiv & 410 pp. [Overview includes all of the Northwestern Hawaiian Islands. A relatively detailed book, it provides a useful synthesis and is more meticulous about citing sources than is true for many of the more general publications.]

Cushman, J. A. 1925. Foraminifera. Pp. 121-144 in Edmondson et al. 1925 [Reports 23 species of foraminifera collected just offshore Laysan by the Tanager Expedition; also includes Rhumbler's earlier records, sometimes under new names] [POBSP 1150]

Dall, W. H., P. Bartsch, and H. A. Rehder. 1938. A manual of the recent and fossil pelecypod mollusks of the Hawaiian Islands. B. P. Bishop Mus. Bull. 153: 233 pp. [Lists 10 species of pelecypods collected at or offshore Laysan, most collected by the Tanager Expedition]

Dailey, M. D., R. V. Santangelo, and W. G. Gilmartin. 1988. A coprological survey of helminth parasites of the Hawaiian Monk Seal from the Northwestern Hawaiian Islands. Mar. Mammal Sci. 4(2): 125-131. [Based on samples from Kure (38), French Frigate Shoals (32), Laysan (11) and Lisianski (1)]

Darnell, N. L., and T. O. White. 1993ms. Trip Report: Laysan Island, 01 August 1993 - 14 November 1993. Admin. Rep., USFWS, Honolulu, HI. 16 pp (and 19 unnumbered pp. of appendix material). [Mostly on *Cenchrus* control but also comments provides annotated lists of breeding birds and plants. Provides counts of Laysan duckbn A variety of vagrants are mentioned but with no details on date seen or other descriptive detail.

David, R. E., and J. Hunter. 1994. Laysan Duck population decline. Threatened Waterfowl Res. Group Newsl. No 6: 3-4. [Likely caused by drought, low water level in the lagoon coupled with scarcity of food and outbreak of nematode infection.]

Daws, G. 1988. Hawaii: The Islands of Life. The Nature Conservancy of Hawaii/Signature Publishing Company, Honolulu. 156 pp. [Coffee table book with Laysan briefly mentioned; gives color photographs of several birds and an oblique aerial of the island taken sometime in the 1970s? by G. H. Balazs]

DeLong, R. L. 1967ms. Census and observations of Hawaiian monk seal on Pearl & Hermes Reef, Lisianski, and Laysan Islands, May 31 to June 11, 1967. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 8 pp. [SIA 37, 163, 19]

DeLong, R. 1976ms. Trip report, Hawaiian Islands National Wildlife Refuge, March 17-April 10, 1976. Natl. Mar. Fish. Serv., Seattle, WA. 11 pp, 2 appendices. [Not seen; from Hiruki and Ragen 1992]

DeLong, R. 1978. Investigation of Hawaiian Monk Seal mortality at Laysan, Lisianski, French Frigate Shoals, and Necker Island, May 1978. NOAA, NMFS, Northwest and Alaska Fisheries Center Interim Report. 22 pp.

DeLong, R., and R. L. Brownell, Jr. 1977. Hawaiian Monk Seal (*Monachus schauinslandi*) habitat and population survey in the Northwestern (Leeward) Hawaiian Islands, April 1977. NOAA, NMFS, Northwest and Alaska Fisheries Center Processed Rep. 43 pp. [Censuses 6-26 April 1977 for Necker, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes, Midway, and Kure.]

DeLong, R., C. H. Fiscus, and K. W. Kenyon. 1976. Survey of Monk Seal (*Monachus schauinslandi*) populations of the Northwestern (Leeward) Hawaiian Islands. NMFS, Northwest Fisheries Center Proc. Rep. i + 36 pp. [Observations March-April 1976 of Nihoa, Necker, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Reef, Kure and Midway. Includes also numbers of Green Turtles (*Chelonia mydas*) seen at different islands, and sightings of various cetaceans (but none at Laysan). Appendix 1, authored by Fiscus alone (pp. 31-43) and entitled "Trip Report: Voyage to Laysan Island, February-March 1977. A part of the joint NMFS-FWS 1977 monk seal (*Monachus schauinslandi*) research program." gives observations of the seal at Laysan and French Frigate Shoals as well as sightings of the turtle at the former.]

Dennis, B., P. L. Munholland, and J. M. Scott. 1991. Estimation of growth and extinction parameters for endangered species. Ecol. Monogr. 61(2): 115-143. [Laysan Finch treated on p. 136; Figure 10 gives estimated populations derived from transects made between 30 March 1969 and 16 August 1988.]

Dickey, D. R. (ms.). 1995. Notes taken during the Tanager Expedition to the Northwestern Hawaiian Islands. Published in this volume in Atoll Research Bulletin

433.

Diggs, J. T. 1918ms. Report of the cruise of the U. S. S. Hermes among the islands of the Hawaiian Group, 1918. Rec. Group 45, U.S. Nat. Arch. 24 pp. [POBSP 1634] [Observations in September 1918 off Nihoa and Necker and at French Frigate Shoals, Laysan (8 September), Midway (14 September) and Kure. Most of the natural history observations were made on Midway and Laysan. For the latter, 8 pages give an annotated list of birds including brief mention of the Laysan Duck and Laysan Honeyeater (*Himatione sanguinea freethii*), a brief description of conditions on the island, and some notes on rabbits, seals, and turtles.]

~~Dill, H. R. 1913. The albatross of Laysan. Amer. Mus. J. 13(4): 185-192. [POBSP 551]~~

Dill, H. R. 1916a. The mating and nesting habits of *Fregata aquila*. Wilson Bull. 28(4): 153-157. [Observations during 1911 visit with 8 black and white photographs] [POBSP 1008]

Dill, H. R. 1916b. The albatross of Laysan. Wilson Bull. 28(4): 172-175. [Observations during 1911 visit with 11 black and white photographs] [POBSP 1008]

Dill, H. R. 1952a. The University Museum of Natural History: Expedition to Laysan Island. Palimpsest 33(2): 44-52. [Popular account of the 1911 expedition to Laysan with B&W photographs of the ensuing cyclorama at the University of Iowa] [POBSP 1753]

Dill, H. R. 1952b. The University Museum of Natural History: Birds on Laysan Island. Palimpsest 33 (2): 53-64. [Annotated list of birds recorded during the 1911 expedition] [POBSP 1753]

Dill, H. R. and W. A. Bryan. 1912. Report of an expedition to Laysan Island in 1911. U.S. Dept. Agr. Biol. Surv. Bull. 42: 30 pp. [Part I "Report on conditions on the Hawaiian Bird Reservation with list of the birds found on Laysan" is written by Dill and Part II "Report on conditions on Laysan, with recommendations for protecting the Hawaiian Islands Reservation" is written by Bryan. The first part (ca. 3/4 of the report gives the most detailed account of the April-June 1911 survey and many black and white photographs] [POBSP 421]

Dutcher, W. 1905. [Bird protection in the Pacific]. Bird-lore 7(1): 301-306. [POBSP 1096]

Ebasco Environmental. 1993ms. "Dead Zone" site, Laysan Island, Hawaiian Islands National Wildlife Refuge Complex, Honolulu, Hawaii. Draft, Preliminary Assessment/Investigation Summary Report, Task Order 93-003, Contract No. 14-48-0010-93-004. Prepared for U.S. Fish Wildl. Serv., Service Engineering Center,

Lakewood, CO. 28 pp.

Edmondson, C. H. 1925. Crustacea. Pp. 3-62 in Edmondson et al. 1925. [Reports 59 species of decapods and a phyllopod from Laysan that were collected on the Tanager Expedition; two decapods (*Crangon laysani*, *Sympagurus pacificus*) from or off Laysan are described as new species.] [POBSP 149, 1150]

Edmondson, C. H., W. K. Fisher, H. L. Clark, A. L. Treadwell, and J. A. Cushman. 1925. Marine zoology of the tropical central Pacific. B. P. Bishop Mus. Bull. 27: ii and 148 pp. [Largely the results of the Tanager Expedition 1923-24. See papers listed under individual authors] [POBSP 1150]

Egler, F. E. 1939. *Santalum ellipticum*, a restatement of Gaudichaud's species. B. P. Bishop Mus. Occ. Pap. 24(20): 349-357. [Places *S. cuneatum* var. *laysanicum* of Laysan in the synonymy of *S. ellipticum*] [POBSP 303]

Ehrlich, P. R., D. S. Dobkin, and D. Wheye. 1992. Birds in Jeopardy: The Imperiled and Extinct Birds of the United States and Canada, including Hawaii and Puerto Rico. Stanford Univ. Press. 259 pp. [Treats the extant Laysan Duck (p. 68) and Laysan Finch (p. 75) and the extinct Laysan Rail (p. 202), Laysan Millerbird, *Acrocephalus f. familiaris* (p. 210), and Laysan Honeyeater, *Himatione sanguinea freethi* (p. 213).]

Ego, K., and H. S. H. Yuen. 1976ms. Cruise Report. Townsend Cromwell, cruise 76-04-71. Unpubl. Admin. Rep., Southwest Fish. Center, Honolulu, HI. 8 pp. [Survey on nearshore fishery resources and terrestrial vertebrates of Nihoa, French Frigate Shoals, Laysan and Necker. Minimal information presented.]

Eilerts, B. D. 1984ms. Laysan Island Expedition, November 4-14, 1984. 4 pp. Unpublished report in the files of the U.S. Fish & Wildlife Service, Honolulu, HI. [Includes list of shorebirds seen: Ruff (2), Dunlin (*Calidris alpina*) (1), Sharp-tailed Sandpiper (*C. acuminata*) (11), Pectoral Sandpiper (*C. melanotos*) (1), Bar-tailed Godwit (*Limosa lapponica*) (3), Lesser Yellowlegs (1), Long-billed Dowitcher (*Limnodromus scolopaceus*) (2), Short-billed Dowitcher (*Limnodromus griseus*) (1), Pintail (*Anas acuta*) (9), Green-winged Teal (*Anas crecca*) (5), as well as aerial photograph of island]

Eliason, J. J., T. C. Johanos, and M. A. Webber. 1990. Parturition in the Hawaiian Monk Seal (*Monachus schauinslandi*). Mar. Mamm. Sci. 6(2): 146-151. [Observations at East Island, French Frigate Shoals, 24 April 1985 and at Laysan 28 April; summarizes previous observations in NWH islands, with a previously unpublished observation from Laysan on 5 May 1982.]

Eliot, J. L. 1978. Hawaii's far-flung wildlife paradise. Natl. Geogr. 153(5): 670-691. [Captioned photographs at Laysan include sleeping seal in front of wrecked

Japanese ships, Laysan Duck, egg harvest in 1906 and picture of Tillie Laysan Schlemmer in Honolulu.]

Elschner, C. 1913. Corallogene Phosphat-Inseln Austral-Oceaniens und ihre Produkte. Max Schmidt, Lübeck. 120 pp. Translation of Chapters I and IV in the files of the Pacific Ocean Biological Survey Program, Smithsonian Institution, Washington, D.C. [POBSP 179 - English translation]

Elschner, C. 1915. The leeward islands of the Hawaiian Group [Reprint from Honolulu Advertiser]. Honolulu, 69 pp. [Pp. 30-54 deal Elschner's September 1914 visit to Laysan on the *Thetis*. Original material largely deals with physical aspects of the island with other material largely derivative but with some original observations on the vegetation.] [POBSP 461]

Ely, C. A. 1942. Shallow-water Asteroidea and Ophiuroidea of Hawaii. B. P. Bishop Mus. Bull. 176. 63 pp.

Ely, C. A., and R. B. Clapp. 1973. The natural history of Laysan Island, Northwestern Hawaiian Islands. Atoll Res. Bull. 171. xi and 361 pp.

Emerson, W. K., and W. O. Czernohorsky. 1973. The genus *Drupa* in the Indo-Pacific. Indo-Pacific Mollusca 3(13): 1-40. [Records *Drupa ricinus ricinus* (Linnaeus 1758) (p 23) from Johnston Island, and Kure, Midway, Laysan, French Frigate Shoals (Tern Island) in the Northwestern Hawaiian Islands.]

Emery, C. 1899. Ergebnisse einer Reise nach dem Pacific (Schauinsland 1896-1897). Formiciden. Zool. Jahrb., Syst. 12: 438-440. [Describes ant *Ponera punctatissima schauinslandi* subsp nov. and reports three other species (*Monomorium gracillimum*, F. Sm., *Tetramorium guineense* F., *Tapinoma melanocephala* F.) of ants from Laysan.] [POBSP 1760] [POBSP 295, English translation]

Evenhuis, N. L. 1979. Catalog of entomological types in the Bishop Museum. Diptera: Stratiomyidae. Pacific Insects 21(1): 1-8. [Lists from Laysan the holotype of *Brachycara latifrons* James (p. 4)]

Farrell, A. [ed.]. 1928. John Cameron's Odyssey. The MacMillan Co., New York. 461 pp. [P. 400 has remarks on Laysan Finch and Laysan Rail on Laysan] [POBSP 403]

Fefer, S. I. 1984ms b. Trip Report - Biological Investigations: Nihoa, Necker, Laysan, Lisianski, Pearl and Hermes Reef, Midway, 19 June - 19 July, 1984. Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 16 pp.

Fefer, S. I. 1984ms b. Laysan Island Expedition, November 1-9, 1984. Memorandum to U. S. Fish. Wildl. Serv., Honolulu, HI. 7pp. [Includes Laysan Duck

emergency recovery action proposal - FY 85, Hawaiian Islands NWR - Laysan Island]

Fefer, S. I. 1984. Regional Report: Hawaii. Pac. Seabird Group Bull. 9(2): 76-77. [Abstract only. Results of 1980 fieldwork including Laysan briefly described]

Fefer, S. I. 1985ms. Trip Report - NWHI Cruise, 15 May - 13 June 1985. Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI. 12 pp. [Nihoa, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Reef, and Midway visited. For Laysan, visited 30 May - 3 June, observations were made on vegetation, nesting species, and the Bristle-thighed Curlew (*Numenius tahitiensis*).]

~~Fefer, S. I. 1985. Regional Report: Hawaii. Pac. Seabird Group Bull. 11(1): 11-13. [Laysan field studies briefly mentioned]~~

Fefer, S. I., C. S. Harrison, M. B. Naughton, and R. J. Shallenberger. 1984. Synopsis of results of recent seabird research conducted in the Northwestern Hawaiian Islands. Univ. Hawaii Sea Grant Misc. Rep. 84-01 (Vol. 1): 9-76. [Population estimates and other remarks on Laysan and the other Northwestern Hawaiian Islands, including Midway. Has much general information on food and feeding habits of birds of the Refuge and addresses present and potential effects of man on seabirds (introductions of predators, exotic insects and plants, habitat alteration, human disturbance, oil pollution and other contaminants.)]

Fefer, S. I., D. Hu, and M. B. Naughton (eds.). Undated ms. Catalog of Hawaiian Seabird Colonies. Refuges and Wildlife, Pacific Islands Office, U. S. Fish and Wildlife Service, Honolulu, HI. 197 pp.

Ferris, G. F. 1927. Fourth report upon Diptera Pupana from the Philippine Islands. Philippine J. Sci. 34: 207-233. [Reports a hippoboscid fly, *Olfersia spinifera* (Leach) from a Wedge-tailed Shearwater (*Puffinus pacificus*) from Laysan] [POBSP 1631]

Fiscus, C. H. 1977. Trip report: Voyage to Laysan Island, February-March 1977. A part of the joint NMFS-FWS 1977 monk seal (*Monachus schauinslandi*) research program. Admin. Rep., 2 May 1977, Natl. Marine Fish. Serv., Honolulu Laboratory. pp. 31-43 (Appendix 1) in Brownell and Delong 1977.

Fiscus, C. H., A. M. Johnson, and K. W. Kenyon. 1978. Hawaiian Monk Seal (*Monachus schauinslandi*) survey of the Northwestern (Leeward) Hawaiian Islands. July 1978. U. S. Dept. Comm., NOAA, NMFS. Northwest & Alaska Fisheries Center Processed Rep., Northwest and Alaska Fisheries Center, Seattle, Washington. ii & 27 pp. [Gives censuses for Nihoa, Necker, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes, Midway and Kure as well as notes on mortality, tagging, and specimens.]

Fisher, H. I., and P. H. Baldwin. 1945. (Untitled). Science (102) 2652: 14. In: Anonymous: Science News. [Reports loss of Laysan Finch and Laysan Rail at Midway

because of military activities.]

Fisher, W. K. 1903. Notes on birds peculiar to Laysan Island, Hawaiian Group. *Auk* 20(4): 384-397. [Abridged from Fisher 1906a, which was written in 1903; black and white photos include those of the Laysan Rail and Laysan Millerbird at the nest.] [POBSP 975]

Fisher, W. K. 1904a. Home life of a buccaneer. *Condor* 6(2): 57-61. [Describes display and breeding behavior of Great Frigatebird on Laysan] [POBSP 1178]

Fisher, W. K. 1904b. On the habits of the Laysan Albatross. *Auk* 21(1): 8-30. [Abridged from Fisher 1903a; copiously illustrated] [POBSP 974]

Fisher, W. K. 1904c. Three boobies interviewed. *Condor* 6(4): 89-94. [Behavior and habits of Masked Booby (*Sula dactylatra*) and Red-footed Booby on Laysan; 7 black and white photographs] [POBSP 961]

Fisher, W. K. 1904d. Albatross pictures. *Condor* 6(6): 151-159. [Twelve black and white photographs of Laysan and Black-footed albatrosses with comments on distribution on Laysan, courtship, and food and feeding.]

Fisher, W. K. 1906a. Birds of Laysan Island and the Leeward Islands, Hawaiian group. U.S. Fish. Comm. Bull. 23 (Pt 3): 767-807. [Detailed systematic and ecological account of the birds, with notes on geography and vegetation, list of plants, many excellent photographs] [POBSP 1338]

Fisher, W. K. 1906b. The starfishes of the Hawaiian Islands. U.S. Fish. Comm. Bull. 23 (pt. 3): 987-1130. [Reports six species, most newly described, from collections made offshore by the Albatross Expedition] [POBSP 1567]

Fisher, W. K. 1907. The holothurians of the Hawaiian Islands. *Proc. U.S. Nat. Mus.* 32 (No. 1555): 637-744. [Reports six species from collections made by the Albatross Expedition] [POBSP 1561]

Fisher, W. K. 1925. Sea stars. Pp. 63-87 in Edmondson et al. 1925. [Report three species of starfish collected at Laysan by the Tanager Expedition: *Linckia guildingii* Gray, *Mithrodia bradleyi* Verrill, and one described as a new subspecies, *Dactylosaster cylindricus pacificus*]

Fisher, W. K. 1952. The siphunculid worms of California and Baja California. *Proc. U. S. Natl. Mus.* 102(3306): 371-450. [Reports *Phascolosoma dentigerum* from Laysan.]

Fleischer, R. C., S. Conant, and M. P. Morin. 1991. Genetic variation in native and translocated populations of the Laysan Finch (*Telespiza cantans*). *Heredity* 66(1):

125-130. [Comparison of Laysan population with that introduced on Pearl and Hermes Reef.]

Fleet, R. R. 1964ms. Leewards Islands survey No. 5, September 1964. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 10 pp. [SIA 37, 163, 10]

Flint, B. (comp.) 1995. Laysan Island, HI. [Christmas Count]. Natl. Audubon Soc. Field Notes 49(4): 837. [374449 individuals of 25 species counted on 21 December 1994. Less common species recorded included 7 Cattle Egrets, 1 Green-winged Teal, 55 Northern Pintails, 4 Long-billed Dowitchers, and 1 Glaucous-winged Gull.]

Fosberg, F. R. 1962. Miscellaneous notes on Hawaiian plants -- 3. B. P. Bishop Mus. Occ. Papers 23 (2): 29-44. [Includes reference *Santalum ellipticum* Gaudichaud on Laysan] [POBSP 211]

Fosberg, F. R., and D. Herbst. 1975. Rare and Endangered species of Hawaiian vascular plants. *Allertonia* 1(1): 1-72. [Lists all endangered species in Hawaii & their status, including Laysan endemics such as *Sicyos laysanensis*, *S. semitonsus*, *S. maximowiczii*]

Fowler, H. W. 1927. Fishes of the tropical central Pacific. B. P. Bishop Mus. Bull. 38: 32 pp. [Lists seven species from Laysan, six from the Tanager collections including one unreported by Fowler 1925 and one from a collection in May 1893] [POBSP 1250]

Fowler, H. W. 1928. The fishes of Oceania. B. P. Bishop Mus. Mem. 10, 540 pp. [Gives distributional records of the fish fauna as then known; includes Laysan.] [POBSP 1253]

Fowler, H. W. 1934. The fishes of Oceania-Supplement 2. B.P. Bishop Mus. Memoir 11 (6): 385-466. [Gives new distributional records for two species at Laysan from collection made in August 1930] [POBSP 1253]

Fowler, H. W., and S. C. Ball. 1924. Descriptions of new fishes obtained by the Tanager Expedition of 1923 in the Pacific Islands west of Hawaii. *Proc. Acad. Nat. Sci. Phila.* 76: 269-274. [Describes *Gregoryina gygis* as a new family, genus and species of a fish collected from a White Tern's nest at Laysan by the Tanager Expedition] [POBSP 1572]

Fowler, H. W., and S. C. Ball. 1925. Fishes of Hawaii, Johnston Island, and Wake Island. B.P. Bishop Mus. Bull. 26: 31 pp. [Reports 71 species of fish collected at Laysan by the Tanager Expedition] [POBSP 1193]

Freed, L. A., S. Conant, and R. C. Fleischer. 1987. Evolutionary ecology and radiation of Hawaiian passerine birds. *Trends in Ecol. Evol.* 2(7): 196-203. [Diet of Laysan Finch is discussed.]

Frings, H., M. Frings, and C. Frings. 1966. An annotated bibliography on North Pacific albatrosses. *Pacific Sci.* 20(3): 312-337.

Froescher, R. C. 1976. The burrowing bugs of Hawaii, with description of a new species (Hemiptera: Cydnidae). *Proc. Haw. Entomol. Soc.* 22(2): 229-235. [*Geotomus pygmaeus* sp. nov. from Nihoa, Midway, Pearl and Hermes, Midway, and Laysan.]

Frohawk, F. W. 1892. Description of a new species of rail from Laysan Island (North Pacific). *Ann. Mag. Nat. Hist.* III, 9(6): 247-249. [Laysan Rail (*Porzanula palmeri*), now known as *Porzana palmeri*.][POBSP 333]

Fullaway, D. T. 1914a. A new species of *Oodemus* from Laysan Island. *Proc. Haw. Entomol. Soc.* 3(1): 18. [Beetle, *Oodemus laysanensis*, described from material collected in April 1911 and in December 1912]

Fullaway, D. T. 1914b. A list of Laysan Island insects. *Proc. Haw. Entomol. Soc.* 3(1): 20-22. [Lists 60 species from Laysan from collections made in 1905 by Wilder (6 species), 1911 by Bryan (3), and 1912 by Fullaway (55).] [POBSP 1363]

Fullaway, D. T. 1923. How coming of man affects the isles of Leeward Hawaii. *Honolulu Advertiser*, May 27, 1923. Four pictures. [Not seen. Observations during Tanager Expedition on Kure, Midway, Pearl and Hermes Reef and Laysan. From Bryan 1978]

Furman, D. P., and M. D. Dailey. 1980. The genus *Halarachne* (Acari: Halarachnidae), with the description of a new species from the Hawaiian Monk Seal. *J. Med. Entomol.* 17(4): 352-359. [*Halarachne laysanae* sp. nov. described from Laysan.]

Gagne, W. C. 1984ms. Trip-report: Biological investigations of Laysan's hypersaline lake and related aspects. *Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI.* 17 pp. [First report to mention *Scaevola* dieback which is affecting seabirds. Also reports on guano samples checked for presence of *Pisonia*, and gives life history of brine flies, an important food of Laysan Duck.]

Garrett, L. E., and F. H. Haramoto. 1967. A catalog of Hawaiian Acarina. *Proc. Haw. Entomol. Soc.* 19(3): 381-414. [Summarizes earlier records from nine Northwestern Hawaiian Islands including Laysan.] [POBSP 1579]

Gauger, V. 1995. Successive clutches in the Black Noddy, *Anous minutus*. *Pacific Seabirds* 22(1): 31. [Abstract of work done on Tern (1987-89) and Laysan (1993-1994)]

islands.]

Gerrish, G., and K. W. Bridges. 1979. Botanical summary of the terrestrial ecosystems of the Hawaiian Islands, American Samoa, and the U.S. Trust Territory of the Pacific Islands. In: Byrne, J.E. (ed.) 1979 (see separate citation). [Chapter on leeward islands, lists endangered plants of Laysan, pp 2-12-13), pp. 1-30.]

Gerrodette, T. 1985. Estimating the 1983 population of Hawaiian Monk Seals from beach counts. NMFS/SWFC Admin. Rep. H-85-5. 13 pp. [Most of the field test of the method was done on Lisianski but a table on p. 9 uses the method to modify estimates for all islands censused, including Laysan during 1983.]

Gerrodette, T., B. K. Choy, and L. M. Hiruki. 1990. An experimental study of derelict gill net fragments in the central Pacific Ocean. Pp. 600-614 in R. S. Shomura and M. L. Godfrey (eds.). Proc. Second Internatl. Conf. Marine Debris, 2-7 April 1989. NOAA Tech. Mem. NMFS 154. FR 38(2)

Giezentanner, J. B. 1977ms a. Expedition Report. Hawaiian Islands National Wildlife Refuge. February 17 - March 6, 1977. Admin. Rep., U. S. Fish Wildl. Serv., Honolulu, HI. 13 pp. [Survey of French Frigate Shoals and Laysan, the latter visited 28 February - 2 March. Gives population estimates and brief notes on birdlife as well as notes on seals and turtles.]

Giezentanner, J. B. 1978ms. Trip Report, Hawaiian Islands National Wildlife Reserve, April 6-26, 1977. Admin. Rep., U. S. Fish Wildl. Serv., Honolulu, HI. 8 pp. [Not seen; from Hiruki and Ragen 1992]

Giezentanner, J. B., D. Woodside, J. Sincock, and E. Kridler. 1982. Laysan Duck recovery plan. U.S. Fish Wildl. Serv., Portland, Oregon.

Gilbert, C. H. 1905. The deep-sea fishes of the Hawaiian Islands. U.S. Fish. Comm. Bull. 23 (pt. 2): iii-xi and 575-713. [Records 24 species of deep sea fishes collected in the vicinity of Laysan by the Albatross Expedition and describes one species *Grammatonotus laysanus*, collected at Laysan by Max Schlemmer] [POBSP 1641]

Gilbert, B. 1971. Then came man and a mustard seed. Sports Ill. 35(11): 96-109. [Not seen; from Mill et al. 1988]

Gill, L. T. 1930. Dwellers on the reefs. Birds of the Northwestern Hawaiian Islands. Nature Mag. 15: 237-240. (April) [Popular account of Tanager Expedition; largely on Laysan but also with two photographs of birds on Nihoa and Necker.]

Gill, R. E., and C. M. Handel. 1990. Summary of the proceedings from the workshop on Bristle-thighed Curlews, Anchorage, Alaska. 22 pp.

Gilmartin, W. G. 1981. Hawaiian Monk Seal recovery uncertain. Seal Report, pp. 3,6. Publ. Center Environ. Education, Washington, D.C.

Gilmartin, W. G. 1983. Recovery plan for the Hawaiian Monk Seal (*Monachus schauinslandi*). NOAA, NMFS, Southwest Region. 44 pp. [Summary of observations in the Northwestern Hawaiian Islands including some previously unpublished observations from Laysan.]

Gilmartin, W. G. 1987. Hawaiian Monk Seal die-off response plan, a workshop report. Southwest. Fish. Cent. Honolulu Lab., NMFS, NOAA, Honolulu, HI. Admin. Rep. H-87-19. 7 pp.

Gilmartin, W. G. 1988. The Hawaiian Monk Seal: population status and current research activities. NOAA, NMFS, SWFC Admin. Rep. H-88-17. 14 pp. [Laysan mentioned frequently; table gives number of seal births per year on each of the islands (where known) from 1977 to 1987.]

Gilmartin, W. G. 1990. Hawaiian Monk Seal Work Plan, Fiscal Years 1991-93. Southwest. Fish. Sci. Cent., Admin. Rep. H-90-14. 43 pp. [Mention of all monk seal sites]

Gilmartin, W. G. 1993. Hawaiian Monk Seal Work Plan, Fiscal Years 1994-96. Southwest. Fish. Sci. Cent., Admin. Rep. H-93-16. 83 pp. [Mention of all monk seal sites]

Gilmartin, W. G., and D. J. Alcorn. 1987. A plan to address the Hawaiian Monk Seal adult male "mobbing" problem. Southwest Fisheries Center Admin. Rep. H-87-12. 24 pp. [Directed to problem of males killing females and immature seals at Laysan]

Gilmartin, W. G., R. L. DeLong, W. A. Smith, L. A. Griner, and M. D. Dailey. 1980. An investigation into unusual mortality in the Hawaiian Monk Seal, *Monachus schauinslandi*. Pp. 32-41 in R. W. Grigg and R. T. Pfund (eds.). Proc. Symposium on Status of Resource Investigation in the Northwestern Hawaiian Islands. Univ. Hawaii Seagrant Misc. Rep. UNIH-SeaGrant-MR-80-04. [1978 observations from dead animals from Laysan and a smaller number from French Frigate Shoals]

Gilmartin, W. G., and L. L. Eberhardt. 1995. Status of the Hawaiian Monk Seal (*Monachus schauinslandi*) population. Can. J. Zool. 73(6): 1185-1190. [Summarizes population trends and factors affecting survival on Northwestern Hawaiian Islands. Graphs population trends 1956-1992 for Kure, Midway, Pearl and Hermes, Lisianski, French Frigate Shoals and Laysan. At Laysan the overall trend has been consistently downward since the mid-1960's.]

Gilmartin, W. G., T. C. Johanos, and L. L. Eberhardt. 1993. Survival rates for the Hawaiian Monk Seal (*Monachus schauinslandi*). Mar. Mamm. Sci. 9(4): 407-420.

[Based on pups tagged since the early 1980's at Kure, Pearl and Hermes Reef, Lisianski, Laysan and French Frigate Shoals. Survival rates on animals up to one year old ranged from 0.80 to 0.90 and for young seals 0.85 to 0.98. Higher number of tagged pups at Laysan and Lisianski allowed separate estimates for males and females with immature females surviving better than males.]

Gilmartin, W. G., T. C. Johanos, and T. Gerrodette. 1987. Preliminary assessment of juvenile Hawaiian Monk Seal survival. Southwest Fish. Center Honolulu Lab., Honolulu, HI. Southwest Fisheries Center Admin. Rep. H-87-16. 11 pp. [Summarizes data obtained on Laysan 1983-1986 with information also for Kure, Pearl and Hermes Reef, Lisianski Island, and French Frigate Shoals.]

Goff, M. L. 1971. New records of chiggers (Acarina, Trombiculidae) from the Northwestern Hawaiian Islands. J. Med. Entomol. 8(4): 456. [Three species from Pearl and Hermes and one, *Neoschoengastia gallinarum* (Hatori) from a Golden Plover on Laysan.]

Goff, M. L. 1987. A catalog of Acari of the Hawaiian Islands. Coll. Trop. Agric. and Human Resour., Univ. of Hawaii Research Extension Service 075: 1-75. [Catalog lists all previously known records from Laysan. Contains one new record (*Bdellodes longirostris*) from Laysan, many from the main islands, and some from Kure, Midway, Pearl and Hermes Reef, and Nihoa.]

Gould, P. J. 1974. Sooty Tern (*Sterna fuscata*). Pp. 6-45 in W. B. King (ed.), Pelagic studies of seabirds in the Central and Eastern Pacific Ocean. Smithsonian Contr. Zool., No. 158. [Pelagic range maps and sightings, including waters around Laysan.]

Gould, P. J., W. B. King and Gerald A. Sanger. 1974. Red-tailed Tropicbird (*Phaethon rubricauda*). Pp. 206-231 in W. B. King, (ed.), Pelagic studies of seabirds in the Central and Eastern Pacific Ocean. Smithsonian Contr. Zool., No. 158. [Pelagic range maps and sightings, including waters around Laysan].

Grant, C. 1947. Frigate birds and the Laysan Rail. Condor 49(3): 130. [Mentions bringing a few rails from Wake Island to Laysan in 1923, all of which subsequently were found dead along the lagoon] [POBSP 965]

Greaney, E. 1959. Honolulu Advertiser October 6, 7, 8. [Not seen. Said to contain three columns on the Pacific Guano and Fertilizer Company and guano from Midway, Laysan, Jarvis and other islands (Bryan 1978)]

Greenway, J. C., Jr. 1958. Extinct and vanishing birds of the world. Amer. Committee Internatl. Wildlife Protection. Special Publ. 13, New York. x and 518 pp.

Gregory, H. E. 1924. Report of the Director for 1923. B. P. Bishop Mus. Bull.

10: 38 pp. [POBSP 184]

Gregory, H. E. 1925. Report of the Director for 1924. B. P. Bishop Mus. Bull. 21: 55 pp. [Contains preliminary reports of the Tanager, Whippoorwill, and Kaimaloa expeditions with original information on central Pacific atolls] [POBSP 218]

Gregory, H. E. 1931. Report of the Director for 1930. B. P. Bishop Mus. Bull. 82: 36 pp. [POBSP 1691]

Griffin, C. R., R. J. Shallenberger, and S. I. Fefer. 1989. Hawaii's endangered waterbirds. A resource management challenge. Pp. 155-169 *in* R. R. Sharitz and J. W. Gibbons (eds.). Proc. of freshwater wetlands and wildlife symposium. Savannah River Ecol. Lab., Aiken, Georgia.

Grigg, R. W. 1981a. *Acropora* in Hawaii. Part 1. History of the scientific record, systematics, and ecology. Pacific Sci. 35(1): 1-13. [Figure 4 shows distribution of three species of *Acropora* including records in the Northwestern Hawaiian Islands for Nihoa, French Frigate Shoals, Gardner Pinnacles, Maro Reef, and Laysan from surveys conducted in 1979 at these and other Northwestern Hawaiian Islands. Only *A. cytherea* was found at Laysan where it is rare.]

Grigg, R. W. 1981b. *Acropora* in Hawaii. Part 2. Zoogeography. Pacific Sci. 35(1): 15-24. [p. 17 mentions that only two colonies of *A. cytherea* have been found at Laysan in 30,000 square meters of reef surveyed. Laysan and other Northwestern Hawaiian Islands mentioned several other places.]

Grigg, R. W. 1981c. Coral reef development at high latitudes in Hawaii. Pp. 687-693 *in* E. D. Gomez, C. E. Birkeland, R. W. Buddemeier, R. E. Johannes, J. A. Marsh, Jr., and R. T. Tsuda (eds.). The Reef and Man. Proc. Fourth Internatl. Coral Reef Symposium, Manila, Vol. 1. [Mentions both main and all the Northwestern Hawaiian Islands including Laysan]

Grigg, R. W. 1982. Darwin Point, a threshold for atoll formation. Coral Reefs 1: 29-34. [Includes observations for all the Northwestern Hawaiian Islands, including Laysan.]

Grigg, R. W. 1983. Community structure, succession and development of coral reefs in Hawaii. Mar. Ecol. Progr. Ser. 11: 1-14. [Deals with most of the main and all the Northwestern Hawaiian Islands listing hermatypic corals found on transects of each.]

Grigg, R. W., and S. J. Dollar. 1980. The status of reef studies in the Hawaiian Archipelago. Pp. 100-120 *in* R. W. Grigg and R. T. Pfund (eds.). Proc. Symposium on Status of Resource Investigations in the Northwestern Hawaiian Islands. Seagrant Misc. Rep. UNIH-SeaGrant-MR-80-04. [Miscellaneous aspects of coral reef in the

main islands and Nihoa, Necker, Gardner Pinnacles, French Frigate Shoals, Maro Reef, Laysan, Lisianski, Pearl and Hermes Reef, Midway and Kure.]

Grigg, R. W., and R. T. Pfund (eds). 1980. Proceedings of the Symposium on Status of Resource Investigations in the Northwestern Hawaiian Islands. Sea Grant Misc. Rep. UHIHI-Seagrant-MR-80-04. 333 pp. [See papers by Balazs; Gilmartin, Delong, Smith, Griner, and Dailey; Grigg and Dollar; Harrison and Hida; Hirota, Taguchi, Shuman and Jahn; Hobson; Ito and Uchida; Okamoto and Kawamoto; Uchida, Uchiyama, Humphreys and Tagami; Uchida, Uchiyama, Tagami and Shiota; and Uchiyama for references to Laysan.]

~~Grigg, R. W., and K. Y. Tanoue (eds.). 1984. Proceedings of the Second Symposium of Resource Investigations in the Northwestern Hawaiian Islands. 2 vols. Univ. Hawaii Sea Grant Misc. Rep. UNIHI-SEAGRANT-MR-84-01. [See papers by Balazs et al., Conant et al., Fefer et al., Henderson and Gilmartin, Okamoto and Keneka, Uchida and Tagami, Uchiyama and Tagami, and Withers in Vol. 1 for mention of Laysan.]~~

Gurney, A. B. 1972. Some early records by J. D. Alfken of insects from Hawaii and Laysan. Proc. Haw. Entomol. Soc. 21 (2): 223-224. [Unimportant. Only a reference to Alfken's earlier paper]

Haas, G. E., N. Wilson, and P. Q. Tomich. 1972. Ectoparasites of the Hawaiian Islands, I. Siphonaptera. Contrib. Amer. Entomol. Inst. 8(5): 1-76. [*Parapsyllus laysanensis* Wilson n. sp. is described from Laysan Albatross nest material from Laysan 8 December 1963; other specimens were obtained from Wedge-tailed Shearwater nests the following day.]

Hackman, C. D. 1967ms. Preliminary report of Leeward Island survey No. 18, March 6 to March 27, 1967. POBSP unpublished ms., Smithsonian Institution, Washington, DC. 12 pp. [SIA 37, 163, 18]

Haight, W. R., and J. J. Polovina. 1992. Status of lobster stocks in the Northwestern Hawaiian Islands, 1991. Southwest Fish. Sci. Cent. Admin. Rep., Honolulu, H-92-02. 33 pp. [Reports results of research trapping conducted at Laysan Island, Maro Reef, and Necker Island by personel aboard the *Townsend Cromwell* during a survey from 24 June to 21 July 1991. Laysan is mentioned on p. 2 and in Figure 3 (p. 13) which shows spiny lobster (*Panulirus marginatus*) catch per unit effort there in 1977, 1985-86, and in 1991.]

Hardwick, D. F. 1965. The corn earworm complex. Mem. Entomol. Soc. Canada 40: 247 pp. [Discusses specimens of *Heliocoverpa* (Noctuidae) collected in September 1961]

Hardy, D. E. 1960. Insects of Hawaii. Vol. 10. Diptera: Nematocera - Brachyura.

E.C. Zimmerman, Ed. Univ. of Hawaii Press, Honolulu. vii and 368 pp. [Describes stratiomyid fly, *Brachycera latifrons* from Laysan from specimens collected by the Tanager Expedition] [POBSP 1617]

Hardy, D. E. 1964. Insects of Hawaii. Vol. 11. Diptera: Brachycera II - Cyclorrhapha I. E.C. Zimmerman, Ed. Univ. of Hawaii Press, Honolulu. vii and 458 pp. [Lists 2 dolichopodid flies from Laysan] [POBSP 1616]

Hardy, D. E., and M. D. Delfinado. 1980. Insects of Hawaii. Vol. 13. Diptera: Cyclorrhapha III, Series Schizophora Section Acalypterae, exclusive of Family Drosophilidae. Univ. Hawaii Press, Honolulu. vii + 451 pp. [Lists records from all Northwestern Hawaiian Islands with 8 species listed or implied for Laysan] *Leptocera* (*Poecilosomella*) *punctipennis* (Wiedemann) [Relisting of specimen collected by Fullaway 8 April 1923], *Copromyza* (*Rachispoda*) *downesi* Richards ["Also collected on Laysan..."], *Copromyza* (*Thoracochaeta*) *brachystoma* (Stenhammar) ["Lisiansky, Laysan and Midway Islands"], *Bryania bipunctata* Aldrich, ["Northwestern Hawaiian Islands, Laysan and Kure Islands (Hardy, 1967:326)"; type locality Nihoa Island], *Neoscatella sexnotata* (Crisson) ["Nihoa, Necker, and Laysan), and Wake Island."; occurs in the lagoon at Laysan where it is apparently quite common (p.347), *Milichiella lacteipennis* (Loew) ["Common on all the Hawaiian Islands, including Kure, Laysan, Midway, Pearl and Hermes Reef, and probably other Leeward Islands."], *Canaceoides angulatus* Wirth [...Laysan Island, Lisianski Island, Wake Island, Midway Atoll..."], *Siphunculina striolata* (Wiedemann) ["First reported on the Leeward Hawaiian Islands and Oahu by Bryan (1931:335)"]

Hardy, D. E. 1981. Insects of Hawaii. Volume 14. Diptera: Cyclorrhapha IV, Series Schizophora, Section Calyptratae. Univ. Hawaii Press, Honolulu. i-vi + 491 pp. [Lists species from all the Northwestern Hawaiian Islands but only two specifically from Laysan both of which had been reported previously: [*Olfersia aenescens* Thomson (pp. 22-23), and *Lucilia graphita* Shannon (p. 349).]

Harrison, C. 1980ms. Trip report, R/V Townsend Cromwell Cruise, 28 May-28 June 1980. NMFS, Southwest Fish. Center Honolulu Lab. 4 pp. [Not seen; from Hiruki and Ragen 1992]

Harrison, C. 1980. Regional Report: Central Pacific. Pac. Seabird Group Bull. 7(1): 18-19. [Laysan field studies briefly described]

Harrison, C. 1981. Regional Report: Hawaii. Pac. Seabird Group Bull. 8(1): 16-17. [Laysan field studies briefly described]

Harrison, C. S. 1990. Seabirds of Hawaii. Natural History and Conservation. Cornell Univ. Press, Ithaca, NY. 249 pp. [Frequent mention of Laysan.]

Harrison, C. S., T. S. Hida. and M. P. Seki. 1983. Hawaiian seabird feeding

ecology. Wildl. Monogr. 85: 71 pp. [Frequent mention of Laysan which was one of the major localities from which food samples were obtained; also lists populations estimates for all islands that are derivative for all but Midway.]

Harrison, C.S., and T. S. Hida. 1980. The Status of Seabird Research in the Northwestern Hawaiian Islands. Pp. 17-31 in R. W. Grigg and R. T. Pfund (eds.). Proc. Symposium on Status of Resource Investigation in the Northwestern Hawaiian Islands. Seagrant Misc. Rep. UNIHl-Seagrant- MR-80-04 [Much work done at Laysan]

Harrison, C. S., M. B. Naughton, and S. I. Fefer. 1984. The status and conservation of seabirds in the Hawaiian Archipelago and Johnston Atoll. ICBP Tech. Publ. 2: 513-526. [Population estimates for Laysan, etc.]

Harry, R. R. 1953. Skin diving on a Polynesian expedition. Skin Diver 2(3): 6-7. [Notes on 1951 Vanderbilt expedition to Laysan and Midway.] [POBSP 480]

Hartert, E. 1919-1927. Types of birds in the Tring Museum. Novit. Zool. 26: 123-178, 32: 259-276, 33: 344-357, 34: 1-38. [These parts of the enumeration include mentions of atoll birds, especially those from Laysan.] [POBSP 357]

Hartlaub, C. 1901. Hydroiden aus dem Stillen Ocean. Ergebnisse einer Reise nach dem Pacific (Schauinsland 1897-97). Zool. Jahrb., Syst. 14: 349-379. [Reports *Plumularia (Halopteris) buski* Bale from Laysan] [POBSP 1591]

Hartlaub, G. 1893. Vier seltene Rallen. [Four rare rails] Abhdl. d. Naturw., Bremen. 12: 389-402. [Laysan Rail, *Porzanula palmeri*, described] [POBSP 1227]

Hartman, O. 1966. Polychaetous annelids of the Hawaiian Islands. B. P. Bishop Mus. Occ. Papers 23(11): 163-252. [Summarizes earlier reports from Laysan and gives current taxonomy] [POBSP 1587]

Hebard, M. 1926. Dermaptera and Orthoptera. Pp. 82-88 in E. H. Bryan, Jr. et al. 1926. [Lists 2 species of earwigs from Laysan from specimens collected there in 1923]

Heller, A. A. 1897. Observations on the ferns and flowering plants of the Hawaiian Islands. Minnesota Botanical Studies 1: 760-922. [On pp. 760-761 is a brief remark about Laysan reporting two plants, one of which, *Gossypium tomentosum*, does not occur there.] [POBSP 484]

Henderson, J. R. 1985. A review of Hawaiian Monk Seal entanglements in marine debris. Pp. 326-335 in R. S. Shomura and H. O. Yoshida, (eds.) Proceedings of the Workshop on the Fate and Impact of Marine Debris, 27-29 November 1984, Honolulu, Hawaii. NOAA Tech. Memo. NMFS SWFC-54. [Secondary mention of entangled seals at Laysan citing Alcorn 1984. Also mentions that no scarred or entangled seals

had been seen at Laysan since then (1982). Much data from French Frigate Shoals, and lesser amounts from Lisianski, Kure and Midway with some new information largely personal communications.]

Henderson, J. R. 1988. Marine debris in Hawaii. Pp. 189-206 in B. L. Alverson and J. A. June (eds.). Proceedings of the North Pacific Rim Fishermens's Conference on Marine Debris, 13-16 October 1987, Kailua-Kona, Hawaii. [Mention is made (p. 196) of Laysan Finches drowning in a plastic cooler in 1986; other examples of debris and its effects are also given for various organisms at French Frigate Shoals, Lisianski, Nihoa, and Pearl and Hermes Reef.]

~~Henderson, J. R. 1990. Recent entanglements of Hawaiian Monk Seals in marine debris. Pp. 540-553 in R. S. Shomura and M. L. Godfrey, (eds.) Proceedings of the second International Conference on Marine Debris, April 2-7 1989, Honolulu, Hawaii. U. S. Dept. Comm. NOAA Tech. Memo. NMFS SWFC-154. [34 entanglements recorded 1985-88 with detailed records given for Kure, French Frigate Shoals, Lisianski, and Laysan, with much of the data previously unpublished. Rates were highest at Lisianski, lowest at French Frigate Shoals.]~~

Henderson, J. R., S. L. Austin, and M. B. Pillos. 1987. Summary of webbing and net fragments found on Northwestern Hawaiian Islands beaches, 1982-86. Southwest. Fish. Cent. Honolulu Lab., NMFS, NOAA, Honolulu HI. SWFC Admin. Rep. H-87-II. 15 pp. [Number of nets and net fragments, annual acculation of nets, locations of nets for Lisianski, Laysan, French Frigate Shoals, Pearl and Hermes Reef and Kure.]

Henderson, J. R., and W. G. Gilmartin. 1984. The Hawaiian Monk Seal: A synopsis of research. Pp. 95-96 in R. W. Grigg and K. Y. Tanoue. (eds.). Proc. Second Symp. Resource Invest. in the Northwestern Hawaiian Islands. Univ. Hawaii Sea Grant Misc. Rep. UNIHI-SEAGRANT-MR-84-01. Vol. 1. [Abstract only]

Henshaw, H. W. 1900-1902. Complete list of the birds of the Hawaiian possessions, with notes on their habits. Hawaiian Almanac and Annual for 1902. pp. 54-106, Hawaiian Almanac and Annual for 1903. pp. 76-117, Hawaiian Almanac and Annual for 1904, pp. 113-145. T. G. Thrum, Honolulu, HI. [Mention of birds on Laysan is wholly derivative being based on the works of Rothschild and Schauinsland. Species listed as occurring on Laysan are in Part 1 on p 82 (*Acrocephalus familiaris*), and p 106 (*Himatione freethii*); in Part 2 on p 83 (*Telespiza cantans*), p 107 (*Limosa lapponica*), p 108-109 (*Tringa acuminata*), *Crymophilus fulicarius*, p 113 (*Porzana palmeri*); in part 3 on p 119-124 (*Anas americana*, *Anas boschas* (= *A. platyrhynchos*), *Anas carolinensis*, *Anas laysanensis*, *Fregata aquila* = *minor*, *Phalacrocorax pelagicus*, *Sula cyanops* (= *dactylatra*), *S. piscator* (= *sula*), p. 126-133 (*Phaethon rubricauda*, *Puffinus cuneatus* (= *pacificus*), *Puffinus nativitatis*, *Oceanodroma fuliginosa* (= *tristrami*), *Bulweria bulweri*, *Aestrelata hypoleuca* (= *Pterodroma hypoleuca*), *Diomedea immutabilis*, *Sterna fuliginosa* (= *fuscata*); p 135-136 (*Anous stolidus*, *Gygis alba*, *Larus glaucescens*).

Henshaw, H. W. 1902. Birds of the Hawaiian Islands, being a complete list of the birds of the Hawaiian possessions with notes on their habits. Honolulu, HI, T. G. Thrum. 146 pp. [Identical to the above with the exception of a few paragraphs in the introduction. In addition to 1900-1902 work are included a table (pp. 137-140) listing occurrence of 125 species by island, the terminal column being headed "Laysan or the other "Bird Isls"" and an index to various species covered.] [POBSP 1028]

Henshaw, H. W. 1912. Our mid-Pacific bird reservation. Yearbook U.S. Dept. Agri. 1911: 155-164. [POBSP 141]

Henshaw, H. W. 1913. Report of the Chief. In: in U. S. Biological Survey, Annual Report, U.S. Dept. Agriculture 1913: 10-11. ["Expedition to Laysan Island"]

Henshaw, H. W. 1915. Report of the Chief. U.S. Biological Survey, Annual Report, Department of Agriculture, 1915: 15 pp. [On pp 9-10 is given a short account of the 18 March - 3 April trip of the USCGC Thetis to the Northwestern Hawaiian Islands with the discovery of substanting feather poaching on Laysan.]

Henshaw, H. W. 1918. A mid-Pacific bird reservation. Mid-Pacific Magazine 15(3): 282-285. [Includes short description of Laysan, with notes on vegetation and birds. Essentially a rehash of the 1912 report] [POBSP 194]

Herald, E. S. 1952. "Pioneer" in the Pacific. Pacific Discovery 5(5): 15-17. [Laysan visited by the George Vanderbilt Pacific Equatorial Expedition of 1951. States that about 120 species of fish were collected and has 4 B&W photos of the birds and seal at Laysan]

Herbst, D. R. 1980. Miscellaneous notes on the Hawaiian flora. I. Phytologia 45(1): 67-81. [Additional floral records from Nihoa, Necker, French Frigate Shoals and Laysan. For Laysan, visited 3-14 September 1968, gives records for *Cenchrus echinatus* L. and *Chenopodium oahuense* (Meyen) Aellen.]

Herbst, D. R. 1983ms. Checklist of the vascular plants of the Northwestern Hawaiian Islands. [Available from the U.S. Fish and Wildlife Service, Endangered Species Office, Honolulu, HI; not seen, from Newman 1988.]

Herbst, D. R., and W. L. Wagner. 1992. Alien plants on the Northwestern Hawaiian Islands. Pp. 189-224 in C. P. Stone, C. W. Smith, and T. Tunison (eds.). Alien plant invasions in native ecosystems of Hawaii: management and research. CP5U/UH, Dept. of Botany, Univ. of Hawaii, Honolulu, Hawaii [Complete listing for all the Northwestern Hawaiian Islands including Laysan. Much is derivative but some might represent original observations by Herbst.]

Hincks, W. D. 1938. The Dermaptera of Oceania. J. Feder. Malay St. Mus. 18: 299-310. [A list with bibliography; includes various records from atolls, among them

Laysan. The records are derivative and based on Fullaway (1914).] [POBSP 506]

Hirota, J., S. Taguchi, R. F. Shuman, and A. E. Jahn. 1980. Distribution of plankton stocks, productivity and potential fishery yield in Hawaiian waters. Pp. 191-203 in R. W. Grigg and R. T. Pfund. (eds.). Proc. Symposium on Status of Resource Investigation in the Northwestern Hawaiian Islands. Seagrant Misc. Rep. UNIHI-Seagrant-MR-80-04. [One of the transects sampled inshore waters near Laysan.]

Hiruki, L. M. 1991. The significance of wounding to the survival of the Hawaiian Monk Seal, (*Monachus schauinslandi*). M. S. thesis, Univ. Alberta, Edmonton, Canada, 110 pp.

Hiruki, L. M., W. G. Gilmartin, B. L. Becker, and I. Stirling. 1993. Wounding in Hawaiian Monk Seals (*Monachus schauinslandi*). Can. J. Zool. 71(3): 458-468. [Observations at Laysan and French Frigate Shoals in 1988 and 1990.]

Hiruki, L. M. and T. J. Ragen. 1992. A compilation of historical Hawaiian monk seal (*Monachus schauinslandi*) counts. U. S. Dep. Comm., NOAA Tech. Memo. NMFS-SWFSC-172. 200 pp. [Detailed tabular listing of all counts and estimates from the Northwestern Hawaiian Islands, island by island, from the 1800's to 1980-81 with 157 numbered references to published and unpublished sources. Appendix F, pp. 101-123, deals with Laysan presenting data from 24 March 1828 to 17 June 1981. Some errors exist in references, e.g. data for 1915, 1923, and 1936 should be reference 32 not 23.]

Hiruki, L. M., I. Stirling, W. G. Gilmartin, T. C. Johanos, and B. L. Becker. 1993. Significance of wounding to female reproductive success in Hawaiian Monk Seals (*Monachus schauinslandi*) at Laysan Island. Can. J. Zool. 71(3): 469-474. [87.5% of adult females that died on Laysan 1983-89 sustained injuries from adult males.]

Hobson, E. S. 1980. The structure of reef fish communities in the Hawaiian Archipelago: interim status report. Pp. 57-70 in R. W. Grigg and R. T. Pfund (eds.). Proceedings of the symposium on status of resource investigations in the Northwestern Hawaiian Islands, Honolulu, Hawaii, April 24-25, 1980. UNIHI-SEAGRANT-MR-80-04. Univ. Hawaii Seagrant Program. [P. 107 (Table 3) shows relative abundance of major reef fishes at Laysan and other Northwestern Hawaiian Islands as well as making miscellaneous comments regarding Laysan.]

Hobson, E. S. 1984. The structure of reef fish communities in the Hawaiian archipelago. Pp. 101-122 in R. W. Grigg and K. Y. Tanoue. (eds.). Proc. Second Symp. Resource Invest. in the Northwestern Hawaiian Islands. Univ. Hawaii Sea Grant Misc. Rep. UNIHI-SEAGRANT-MR-84-01. Vol. 1. [Data for all the Northwestern Hawaiian Islands; gives relative abundance of major reef fishes at each atoll,]

Hollenberg, G. J. 1968. An account of the species of the red alga *Polysiphonia*

of the Central and Western tropical Pacific Ocean. II. Polysiphonia. *Pacific Sci.* 22(2): 198-207. [Reports alga *P. tsudana*, sp. nov. from the neck of a Green Turtle on Laysan 8 December 1963]

Holly, M. 1935. Polychaeta from Hawaii. *B. P. Bishop Mus. Bull.* 129: 33 pp. [Gives results of Pietschmann's 1928 collections at Pearl and Hermes, French Frigate Shoals, Lisianski and Laysan] [POBSP 1537]

Howard, R. J., and C. A. Newton. 1993ms. Trip Report: Laysan Island, 9 March - 9 August 1993. *Admin. Rep., U.S. Fish Wildl. Serv., Honolulu, HI.* 43 pp. [Notes on *Cenchrus* control, censuses of Laysan Ducks, island wide counts of nests of Black Noddies, Red-footed Boobies and Great Frigatebirds and partial censuses of Red-tailed Tropicbird nests (those in *Cenchrus* study plots), results of shorebird counts, annotated list of breeding and vagrant birds; the least common of the latter was a female American Wigeon (*Anas americana*) seen from 10 May to 11 July. Also gives an annotated list of vascular plants, and notes on the "dead zone", monk seals, green turtles, and on an oil spill. Nesting distributions of Red-tailed Tropicbird, Masked and Brown boobies, Gray-backed and Sooty terns were mapped but not included in report.]

Hornell, J. 1934. Log of the schooner *Ada* on a fishing cruise in the North Pacific, 1882. *Mariner's Mirror* 20: 436-437.

Howard, R. J., and C. A. Newton. 1993ms. Laysan Island Trip Report (9 March - 9 August 1993). 49 pp. *Admin. Rep., U. S. Fish. Wildl. Service, Honolulu, HI.* 8 pp. [Mostly on *Cenchrus* problem and eradication]

Howarth, F. G. 1981. New earwigs (Carcinophoridae). *Proc. Haw. Entomol. Soc.* 23(3): 315. [Earwig previously collected on Laysan and reported in the *Insects of Hawaii* as *Anisolabis eteronomata* is reidentified as *A. maritima* (Bonelli).]

Hu, D. 1985ms. Trip report: Northwest Hawaiian Islands Cruise, 15 May - 13 June, 1985. 15 pp. Unpublished admin. rep. U. S. Fish and Wildlife Service, Honolulu, HI. [Information on seabirds]

Hu, D. 1987ms. Trip report: Laysan Island, 6 April to 1 May 1987. Unpublished admin. rep. U. S. Fish and Wildlife Service, Honolulu, HI. 13 pp. [Data on seabird biology]

Hudson, O. 1911. Uncle Sam's Ocean Park. *Mid-Pacific Magazine* 1(3): 339-343. [Brief unimportant descriptions of the Northwestern Hawaiian Islands with a few photographs and some remarks on birds] [POBSP 135]

Humphrey, P. S. 1965. An ecological survey of the central Pacific. *Smithsonian Year* 1965: 24-30. [Describes the Pacific Ocean Biological Survey Program; has two photos from Laysan.]

Imada, C. T., W. L. Wagner, and D. R. Herbst. 1989. Checklist of native and naturalized flowering plants of Hawai'i. B. P. Bishop Mus. Occ. Pap., vol. 29: 31-97. [Contains entries for Laysan.]

Ito, B. M., and R. N. Uchida. 1980. Results of *Ciguatera* analysis of fishes in Northwest Hawaiian Islands. Pp. 81-89 in R. W. Grigg and R. T. Pfund (eds.). Proc. Symposium on Status of Resource Investigations in the Northwestern Hawaiian Islands. Seagrant Misc. Rep. UNIHI-Seagrant-MR-80-04. [Eight species of fish from Laysan showed positive reactions.]

Ito, B. M., R. N. Uchida, L. M. Shirai, M. A. Abad, L. H. Kimura, and Y. Hokama. 1984. Radioimmunoassay results of ciguatera analysis of fishes in the Northwestern Hawaiian Islands, 1980-81. Pp. 226-236 in R. W. Grigg and K. Y. Tanoue. (eds.). Proc. Second Symp. Resource Invest. in the Northwestern Hawaiian Islands. Univ. Hawaii Sea Grant Misc. Rep. UNIHI-SEAGRANT-MR-84-01. Vol. 2. [Table 2 presents results for samples collected 1980-1981 for all the Northwestern Hawaiian Islands. The number of positive results was about intermediate for Laysan where the following species of fish provided borderline or positive assays for ciguatera: *Pseudocaranx dentex*, *Seriola dumerili*, *Etelis carbunculatus*, *Pristipomoides filamentosus*, *P. zonatus*, *Euthynnus affinis*, and *Pontinus macrocephalus*.]

IUCN. 1991. IUCN Directory of Protected Areas in Oceania. Prepared by the World Conservation Monitoring Centre. IUCN, Gland, Switzerland and Cambridge, U.K. xxiii + 447 pp. [2 page section on Hawaiian Islands National Wildlife Refuge, including Laysan, related to ecology and conservation.]

Jabulka, J. 1934. Birds without fear found on Laysan Island. Honolulu Star-Bulletin, July 7, 1934. [Not seen. Based on 1934 visit of USCG cutter Itasca commanded by Commodore John S. Baylis. Historic notes from other sources on Nihoa, Necker, French Frigate Shoals and Laysan. From Bryan 1978]

Jacobs, W. V. E. (ms.). Report to the Secretary of the Treasury of investigation and apprehension of Japanese plumage hunters in January 1910. Rec. Group 26, U.S. Natl. Archives. 18 pp. [POBSP 1547]

Johanos, T. C., and S. L. Austin. 1988. Hawaiian Monk Seal population structure, reproduction, and survival on Laysan Island, 1985. U.S. Dep. Comm., NOAA Tech. Memo. NMFS, NOAA-TM-NMFS-SWFC 118. 38 pp. [Not 36 pp. as sometimes cited. Based on studies conducted 2 March to 30 November 1985 a total of 295 individuals present an increase of 25 over the preceding year with at least 32 pups born.]

Johanos, T. C., B. L. Becker, M. A. Brown, B. K. Choy, L. M. Hiruki, R. E. Brainard, and R. L. Westlake. 1990. The Hawaiian Monk Seal on Laysan Island, 1988. NOAA Tech. Memo. NMF5-5WFC-151. 44 pp.

Johanos, T.C., B. L. Becker, and T. J. Ragen. 1994. Annual reproductive cycle of the female Hawaiian Monk Seal (*Monachus schauinslandi*). Marine Mamm. Sci. 10(1): 13-30. [Based on studies conducted on Laysan (1982-1992) and Lisianski (1982-1983) islands. Data are given on birth rates, pupping, weaning, and molting.]

Johanos, T. C., A. K. H. Kam, and R. G. Forsyth. 1987. The Hawaiian Monk Seal on Laysan Island: 1984. U.S. Dep. Comm., NOAA Tech. Memo. NMFS, NOAA-NMFS-SWFC-70, 38 pp.

Johnson, A. M., R. L. DeLong, C. H. Fiscus, and K. W. Kenyon. 1982. Population status of the Hawaiian Monk Seal (*Monachus schauinslandi*), 1978. J. Mammal. 63(3): 415-421. [Estimates for Kure, Midway, Pearl and Hermes Reef, Laysan, etc. showing declines in populations 1957-1978]

Johnson, A. M., and E. Kridler. 1983. Interisland movement of Hawaiian Monk Seals. Elepaio 44(5): 43-45. [Movements from and/or to reported for Kure, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Reef and Johnston Atoll.]

Johnson, B. W., and P. A. Johnson. 1978. The Hawaiian Monk Seal on Laysan Island: 1977. Final Rep. Marine Mammal Comm., Contract MM TAC 009, Natl. Tech. Inf. Serv. P.B.-285428. 38 pp.

Johnson, B. W., and P. A. Johnson. 1978. The Hawaiian Monk Seal on Laysan Island: 1977. Final Report. Aquatic Mammals Behav. Res. Co., Honolulu, Hawaii. 46 pp.

Johnson, B. W., and P. A. Johnson. 1980. The Hawaiian Monk Seal on Laysan Island, 1978. Draft report to the Marine Mammal Commission, Washington, DC. 20006. 39 pp. [Not seen, in Gilmartin et al. 1980]

Johnson, B. W., and P. A. Johnson. 1980ms. Hawaiian Monk Seal observations on Laysan Island, 1979. 5 pp. [In files of USFWS, Honolulu. Report of studies made 12 March-17 August]

Johnson, B. W., and P. A. Johnson. 1981a. Estimating the Hawaiian Monk Seal population on Laysan Island. Aquatic Mammals Behav. Res. MMG-80/06. 36 pp.

Johnson, B. W., and P. A. Johnson. 1981b. The Hawaiian Monk Seal on Laysan Island: 1978. Final Rep. Marine Mammal Comm., Contract MM 8AC 008, Natl. Tech. Inf. Serv. PB-82-109661. 17 pp.

Johnson, B. W., and P. A. Johnson. 1981ms. Hawaiian Monk Seal observations on Laysan Island, 1980. 5 pp. [Not seen; from Hiruki and Ragen 1992]

Johnson, B. W., and P. A. Johnson. 1984. Observations of the Hawaiian Monk

Seal on Laysan Island from 1977 through 1980. NOAA Tech. Memo. NMFS-SWFC 49, 65 pp.

Johnson, H. M. 1961. Note on the Laysan Duck. 'Elepaio 22(3): 22-23. [Largely notes on a 1960 article by S. D. Ripley] [POBSP 895]

Johnson, P. A., B. W. Johnson, and L. T. Taylor. 1981. Interisland movement of a young Hawaiian Monk Seal between Laysan Island and Maro Reef. 'Elepaio 41(11): 113-114.

Jordan, D. S. and J. O. Snyder. 1904. Notes on collections of fishes from Oahu Island and Laysan Island, Hawaii, with descriptions of four new species. Proc. U.S. Nat. Mus. 27 (No. 1377): 939-948. [Reports fish collected at Oahu and Laysan, the latter collected by Max Schlemmer but does not always give collection localities. Lists 7 species from Laysan including the newly described *Lactoria schlemmeri* and *Antennarius laysanensis*, a synonym of *A. commersoni*.] [POBSP 1637]

Jordan, D. S., and B. W. Evermann. 1905. The aquatic resources of the Hawaiian Islands. Part I. The shore fishes. U. S. Bur. Fisheries Bull. 23(1): i-xxviii & 1-574. [Color plate and detailed description of *Julis flavovittata* Bennett, *Gymnothorax laysanus* (Steindachner), *Lactoria schlemmeri* (Jordan and Snyder), and *Antennarius laysanicus*, all collected on Laysan]

Kam, A. K. H. 1986. The green turtle, *Chelonia mydas*, at Laysan Island, Lisianski Island, and Pearl and Hermes Reef, summer 1982. U. S. Dep. Commer., NOAA Tech. Memo. NOAA-NMFS-SWFC-107, 24 pp.

Kay, E. A. 1979. Hawaiian Marine Shells. B. P. Bishop Museum Spec. Publ. 64(4). xvii & 653 pp. [Laysan is mentioned several times in the introduction. Specific locality records through page 307 for various species are given for Midway (11), Pearl and Hermes Reef (4), French Frigate Shoals (7 - see Pease 1871d), Gardner Pinnacles (2), Necker (3), Nihoa (2), Kure (1) Laysan (3), (See Rehder and Ladd 1973), Lisiansky (1), Johnston Island (3), Fanning (4 - Kay 1971, Kay and Switzer 1974), Canton (1) (Kay 1976) and some others said to be of wide distribution (e.g. such as from Midway to Hawaii) may also have been recorded from Laysan.]

Keast, A. 1966. Australia and the Pacific Islands: A Natural History. The Continents We Live On Series, Random House, New York. 298 pp. [Pp. 224-228 have derivative material on Laysan; 2 B&W photos, one of the Laysan Duck, the other of a Laysan Albatross colony in 1893.]

Kellogg, V. L. and J. H. Paine. 1910. Mallophaga from the birds of Laysan Island. Entomol. News 21: 124-125. [Lists 11 species, including one, *Docophorus snyderi*, described as a new species from collections made in May 1902.] [POBSP 381]

Kenyon, K. W. 1966ms. Marine Wildlife Biological Observations in the Leeward Hawaiian Islands 8-27 September 1966. Seattle: Bur. Sport Fish. Wildl., U. S. Fish. Wildl. Serv., 1 December 1966. 48 pp. [Not seen; from Hiruki and Ragen 1992]

Kenyon, K. W. 1973. Hawaiian Monk Seal (*Monachus schauinslandi*). In: Seals. IUCN. Survival Service Commission. IUCN Publ. New Series Supplementary Paper 39: 88-97.

Kenyon, K. W. 1978. Hawaiian Monk Seal. Pp. 212-216 in D. Haley (ed.) 1978. Marine mammals of the Eastern North Pacific and Arctic waters. Pacific Search Press, Seattle. 256 pp.

Kenyon, K. W. 1981a. The Hawaiian Monk Seal: an endangered marine mammal. Water Spectrum 13(2): 1-6. [Pp. 4-5 mention productivity 1977-1980 and ciguatera poisoning; p. 6 shows a seal along the beach there.]

Kenyon, K. W. 1981b. Monk Seals -- *Monachus* Fleming, 1822. Pp 195-220 in S. H. Ridgway and R. J. Harrison (eds.). Handbook of Marine Mammals. Vol. 2. Seals. Academic Press, New York. xv & 359 pp.

Kenyon, K. W. 1986. Hawaiian Monk Seal. Pp. 234-242 in D. Haley (ed.). 1978. Marine mammals of the Eastern North Pacific and Arctic waters. 2nd ed., revised. Pacific Search Press, Seattle. 295 pp. [Some material in addition to earlier version; on p. 239 mentions evidence of shark attack at Laysan and Lisianski and mentions of ciguatera at former. Most information on Midway and French Frigate Shoals.]

Kenyon, K. W., and E. Kridler. 1969. Laysan Albatross swallow indigestible matter. Auk 86(2): 339-343. [Data largely from 100 carcasses on Southeast island. Pearl and Hermes Reef 24 Sept. 1966; gives also a few observations at Laysan.] [POBSP 1558]

Kenyon, K. W., and D. W. Rice. 1959. Life history of the Hawaiian monk seal. Pacific Sci. 13(3): 215-252. [POBSP 269]

Kepler, A. K. 1992ms a. Easy Guide to Laysan's Plants. in. 5. Fish & Wildlife Service, Honolulu, Hawaii. 18 pp. [An illustrated typescript that identifies all plants occurring there]

Kepler, A. K. 1992ms b. Trip Report: Laysan Island, January 15 to April 25, 1992. Admin. Rep. U. S. Fish and Wildlife Service, Honolulu, Hawaii. 105 pp. [Detailed report on a wide variety of topics including both vertebrates and plants with many maps.]

Kimura, L. H., Y. Hokama, and M. A. Abad. 1984. Results of ciguatoxin analysis by enzyme-immunoassay (EIA) of fishes in the nearshore waters of the Northwestern

Hawaiian Islands. Pp. 108-121 in R. W. Grigg and K. Y. Tanoue. (eds.). Proc. Second Symp. Resource Invest. in the Northwestern Hawaiian Islands. Univ. Hawaii Sea Grant Misc. Rep. UNIH-SEAGRANT-MR-84-01. Vol. 2. [Data based on fish captured at all the Northwestern Hawaiian Islands including Laysan. Table 6 presents specific results for *Acanthurus triostegus* and *Kuhlia sandvicensis* samples from Laysan and other islands. Other fish from Laysan that were tested were *Abedufdef sordidus*, *Bodianus bilunulatus*, *Caranx ignobilis*, *Cheilinus rhodochrous*, *Mulloidichthys flavolineatus*, and *Thalassoma purpurem*.]

King, J. E. 1956. The monk seals (Genus *Monachus*). Bull. Brit. Mus. (Nat. Hist.) Zool. 3(5): 201-256. [POBSP 278]

King, J. E. 1964a. The monk seal of the Pacific. Zeitschr. Säugetierkunde 29(1): 37-42. [General account mentioning all islands and giving population estimates 1824-1958; also with photos of seal on Laysan.]

King, J. E. 1964b. Seals of the World. British Museum (Nat. Hist.), London. 154 pp. [Brief natural history on pp. 75-77 of the "Laysan Monk Seal".]

King, J. E., and R. J. Harrison. 1961. Some notes on the Hawaiian Monk Seal. Pacific Sci. 15(2): 282-293. [Notes on specimen collected on Laysan during the summer of 1958] [POBSP 255]

King, R. D. 1941. Leeward Islands and Palmyra. Thrum's Hawaiian Annual 1940-41, pp. 45-53. [Geographic, statistical, and historic data about Laysan on pp. 49-50.]

King, W. B. 1973. Conservation status of birds of central Pacific islands. Wilson Bull. 85(8): 89-103. [About 1/2 page devoted to Laysan on pp. 91-92.]

King, W. B. (ed.). 1974. Pelagic studies of seabirds in the Central and Eastern Pacific Ocean. Smithsonian Contr. Zool., no.158. 277 pp. [Papers included by King, P. G. Gould, R. S. Crossin, C. S. Robbins and D. W. Rice, and G. A. Sanger, and listed elsewhere herein are based largely on the researches of the Pacific Ocean Biological Survey Program.]

King, W. B. 1974. Wedge-tailed Shearwater. Pp. 53-95 in: W. B. King, (ed.), Pelagic studies of seabirds in the Central and Eastern Pacific Ocean. Smithsonian Contr. Zoo., no.158. [Pelagic range maps and sightings, including waters around Laysan].

King, W. B. 1981. Endangered Birds of the World. The ICBP Red Data Book, Smithsonian Institution Press/ICBP, Washington, DC. [Detailed discussions of extinct and endangered Laysan birds]

Kittlitz, F. H. von. 1834. Nachricht von den Brutplätzen einiger tropischen Seevögel im Stillen Ocean. Mus. Senckenb. 1: 115-126. [Brief description of Moller [Laysan] and Lisianski islands with notes on the birds found there. Includes a brief mention of vegetation as observed by Kittlitz and C. Isenbeck. A partial translation can be found in Rothschild 1893-1900] [POBSP 1720]

Knudtson, E. P. 1980 ms. Hawaiian Monk Seal (*Monachus schauinslandi*), survey of the Northwest Hawaiian Isles, 3-22 November 1980. Honolulu, NMFS, Southwest Fish. Center Lab. 6 pp. [Not seen; from Hiruki and Ragen 1992]

Knudtson, E. P. 1981 ms a. Hawaiian Monk Seal, *Monachus schauinslandi*, survey of the Northwestern Hawaiian Islands, 17 January-3 February 1981. NMFS, SWFC Honolulu Lab. 4 pp. [Not seen; from Hiruki and Ragen 1992]

Knudtson, E. P. 1981 ms b. Hawaiian Monk Seal observations at Laysan Island, March-July 1981. Southwest Fisheries Science Center Honolulu Laboratory, National Marine Fisheries Service, NOAA. 23 pp.] [2570 Dole St., Honolulu, HI 96822-2396.

Knudtson, E. P. 1983 ms. Survey of the Hawaiian Monk Seal, *Monachus schauinslandi*, at Laysan Island, 25-28 January 1981. 3 pp. [In files of USFWS, Honolulu, HI]

Knudtson, E. P., and M. Naughton. 1979. Colony attendance patterns and wing characteristics of some tropical seabirds. Pac. Seabird Group Bull. 6(2): 30. [Abstract only. Laysan studies briefly described]

Kohls, G. M., D. E. Sonenshine, and C. M. Clifford. 1965. The systematics of the subfamily Ornithodorini (Acarina: Argasidae). II. Identification of the larvae of the western hemisphere and descriptions of three new species. Ann. Entomol. Soc. Amer. 58(3): 331-334. [*Ornithodoros (A.) capensis* larvae described in part from larvae reared from adults taken in December 1963 from a Laysan Albatross nest on Laysan.]

Kramer, R. J. 1959ms. Some notes and observations on Laysan Island Fauna, April 28, 1959 to May 1, 1959. 8 pp. Hawaii Div. Fish and Game, Honolulu, HI. [Most of report on Hawaiian Monk Seal and Laysan Duck, with very brief notes on other birds.] [POBSP BB 8]

Kramer, R. J. 1963ms. A report on a survey trip to the Hawaiian Islands National Wildlife Refuge, February, 1963. 29 pp. [Report by employee of the Hawaii Division of Fish and Game on POBSP survey of Laysan (11-13 February) and Lisianski (14 February) islands. Reports observations on vegetation affected by winter weather, birds, seals, turtles, and remains of military operations. Also includes information on turtle tagging and photographs (originals presumably still in the possession of the Hawaii Division of Fish and Game) showing both islands] [POBSP 161]

Kramer, R. J. 1971. Hawaiian land mammals. Rutland, Vermont: Charles E. Tuttle Co. 347 pp. [Mention of Laysan under Guinea Pig, Rabbit, Hawaiian Monk Seal.]

Kramer, R. J., and J. W. Beardsley. 1962ms. A report of a survey trip to the Hawaiian Islands National Wildlife Refuge, June, 1962. Hawaii State Dep. Land Nat. Resour., Div. of Fish and Game. 12 pp. [POBSP 154]

Kridler, E. 1964ms. [Report on Hawaiian Islands National Wildlife Refuge... survey September 16 through 27, 1964]. Unpubl. Admin. Rep., U. S. Fish. Wildl. Serv., Honolulu, HI. 31 pp.

Kridler, E. 1966ms a. Hawaiian Islands National Wildlife Refuge trip report, March 17-April 16, 1966. Unpubl. Admin. Rep., U. S. Fish. Wildl. Serv., Honolulu, HI. 24 pp.

Kridler, E. 1966ms b. Hawaiian Islands National Wildlife Refuge trip - September 8-28, 1966. Unpubl. Admin. Rep., U. S. Fish. Wildl. Serv., Honolulu, HI. 34 pp.

Kridler, E. 1967ms a. Refuge log book for 6 March - 1 April 1967. 39 pp.

Kridler, E. 1967ms b. Preliminary report of Leeward Survey No. 18, March 6-27, 1967. Admin. Rep., U. S. Fish Wildl. Serv., Honolulu HI. [Not seen; from Hiruki and Ragen 1992]

Kridler, E. 1967ms c. Refuge log book for 19-29 September 1967. Unpubl. Admin. Rep., U. S. Fish. Wildl. Serv., Honolulu, HI. 12 pp.

Kridler, E. 1967ms d. Hawaiian Islands National Wildlife Refuge...Preliminary trip report - December 7 through 18, 1967. Unpubl. Admin. Rep., U. S. Fish. Wildl. Serv., Honolulu, HI. 13 pp.

Kridler, E. 1968ms a. Summary of recent trip to Hawaiian Islands Refuge, March 6-30, 1968. Admin. Rep. U. S. Fish Wildl. Serv., Honolulu HI. 5 pp. [Not seen; from Hiruki and Ragen 1992]

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Kridler, E. 1971ms. Hawaiian Wildlife Refuge Trip Report. September 2-17, 1971. Unpubl. Admin. Rep., U. S. Fish. Wildl. Serv., Honolulu, HI. 29 pp. [Report of visit to Lisianski, Laysan, Gardner Pinnacles, French Frigate Shoals, Necker and Nihoa. For Laysan, visited 6-11 September, notes on birds are given with more detailed notes on censuses of Hawaiian Monk Seal, Laysan Duck and Laysan Finch. The island was also visited by Eric Laysan Schlemmer who pointed out remnants of the guano operation while he was being the subject of a taped interview.]

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