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Records, *circa* 1961-1973, with data from 1923

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Collection Overview

Repository:	Smithsonian Institution Archives, Washington, D.C., <i>osiaref@si.edu</i>
Creator:	National Museum of Natural History, Pacific Ocean Biological Survey Program
Title:	Records
Dates:	<i>circa</i> 1961-1973, with data from 1923
Quantity:	32.1 linear meters, 95 volumes, and oversize.

Administrative Information

Preferred Citation

Smithsonian Institution Archives, Record Unit 245, National Museum of Natural History, Pacific Ocean Biological Survey Program, Records

Access Restriction

(1) Record unit partially microfilmed; (2) check finding aid for location.

Historical Note

The Pacific Ocean Biological Survey Program (POBSP) was initiated in 1962 when the Smithsonian Institution entered into a grant agreement with the Department of Defense. From January 1963 through June 1969 Smithsonian Institution employees undertook biological surveys in an area of the Pacific Ocean spanning the equator and extending from latitude 30 degrees north to 10 degrees south and from longitude 150 degrees east to 180 degrees west, an area dotted with clusters of islands and atolls. The major goals of the program were to learn what plants and animals occurred on the islands, the seasonal variations in their numbers and reproductive activities, and the distribution and population of the pelagic birds of that area. Emphasis was placed on the banding of birds in an effort to determine migration, distribution, and abundance of pelagic sea birds. During the six and a half years of field work 1,800,000 birds were banded; approximately 150,000 observations of pelagic birds at sea were made; and biological surveys of varying intensity were made on several islands.

The principal investigator of the POBSP was Philip S. Humphrey (1926-2009), who came to the Smithsonian Institution in 1962 as curator of birds. In 1964 Humphrey became chairman of the newly created Department of Vertebrate Zoology, while retaining his position as curator of birds. In 1967 he left the Smithsonian to become director of the Museum of Natural History and chairman of the Department of Zoology at the University of Kansas. He remained principal investigator of the Survey and retained his connection with the Smithsonian as a research associate.

Introduction

This finding aid was digitized with funds generously provided by the Smithsonian Institution Women's Committee.

Descriptive Entry

These records document the administration, field work, and research activities of the Pacific Ocean Biological Survey Program, especially its bird banding, island survey, and pelagic survey programs. Included are reports, correspondence, field records, office records, contracts, data, notes, manuscripts, maps, and photographs. The records also contain material from earlier field activities in the Pacific that was collected by the POBSP.

Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

Natural history museums
Ornithology.

Types of Materials:

Maps
Photographs

Names:

Humphrey, Philip Strong, 1926-
National Museum of Natural History (U.S.). Dept. of Vertebrate Zoology.
United States. Army
United States. Dept. of Defense
University of Kansas

Container Listing

Series 1: INTRAOFFICE RECORDS, 1960-1970.

This series contains correspondence, memoranda, instructions, reports, clippings, and lists concerning operation of the project and its finances. A small amount of data, mostly climatological, gathered from outside sources is included.

Box 1

Folder 1 Abbot, Tina, 1965 and undated. Contains correspondence and bird drawings.

Folder 2 Alaska, 1967.

Folders 3-7 Automatic data processing, 1965-1970 and undated.

Folders 8-12 Bi-monthly status reports, 1963-1968.

Folder 13 Birds: catalog skins, 1964.

Folder 14 Birds: lists, 1963, 1966, and undated.

Folder 15 Birds: suggestions for collecting and preserving specimens, 1968, and undated.

Box 2

Folder 1 Botany, 1963-1964, and undated.

Folder 2 CEIR. Inc., 1968.

Folder 3 Circular letters, 1963-1964, and undated.

Folder 4 Climatological and oceanographic data, 1964-1970.

Folders 5-6 Climatological data: Pacific summary, 1966-1969.

Folder 7 Climatological data: Wake Island, 1961-1967.

Folder 8 Clippings, 1963-1966, and undated.

Folder 9 Color-markings, 1966.

Folders 10-11 Computation of island areas and distances, undated.

Folder 12 Consultant, Willis, 1967-1970.

Folder 13 Cruise lists.

Folder 14 Data books, binding, 1970.

Folder 15 Distribution of data, 1969.

Folder 16 Distribution of reports, 1964.

Folder 17 Draft board, 1963-1967.

Folder 18 "Droppings from the Eagle's Roost," 1965.

Folders 19-20 EASTROPAC, 1966-1969.

Box 3

Folder 1 Equipment, 1960, 1963-1970.

Folders 2-3 Financial statements, 1962-1970.

Folder 4 Fishes, 1964.

Folder 5 Hawaii: names and addresses of wildlife organizations, circa 1963.

Folder 6 Honolulu: bank account, 1964-1969.

Folder 7 Honolulu: operations, instructions, 1967-1969.

Folder 8 Honolulu: storage, 1963, 1969.

Folder 9 Identification of birds, 1963-1967.

Folder 10 Insects, 1962-1969.

Folder 11 Instructions, 1963-1967.

Box 4

Folder 1 Insurance, 1963-1965.

Folder 2 Interior Department, 1963-1970.

Folder 3 Interior Department-Smithsonian Institution agreement, 1962-1969.

Folders 4-6 Inventory, 1964-1970, and undated.

Folder 7 Island accounts, 1967-1970.

Folder 8 Island coordinates, 1964.

Folder 9 Itineraries and survey plans, 1965-1967.

Folder 10 Mailing list, 1965-1966, and Directory of Addresses, 1964.

Box 5

Folder 1 Mammal guide, 1966-1967.

Folder 2 Maps, 1965-1970.

Folders 3-4 Memoranda, 1963-1970, and undated.

Folder 5 Mongooses, circa 1967-1969.

Folder 6 Museum loans, 1965-1966.

Folders 7-12 Oceanographic data, 1963-1964, and undated.

Folder 13 Permits: Alaska, 1964-1966.

Folder 14 Permits: general, 1965-1970.

Folder 15 Permits: Hawaii, 1962-1970.

Folder 16 Permits: Mexico, 1967-1969.

Box 6

Folder 1 Personnel - General, 1964-1969. Includes photographs, accident reports, security clearance information, addresses.

Folders 2-3 Photography, 1966-1967. Includes photographs of field work and offices.

Folders 4-6 Poulson, Anne Keenan, 1966-1970. Contains correspondence and drafts of drawings and charts.

Folder 7 Program descriptions, 1963-1964.

Folder 8 Project Porpoise, 1966-1967.

Folder 9 Property disposal, 1963-1967.

Folder 10 Publications assignments, 1969.

Folders 11-12 Publicity, 1964-1970, and undated.

Folder 13 Quarterly status reports, 1969.

Folder 14 Reference files, 1964.

Folder 15 Requisitions for services, 1964-1970.

Folder 16 Science information Exchange, 1964.

Folder 17 Security, 1963-1969.

Folder 18 Sera samples, 1962-1965.

Folder 19 Shipping information, 1967-1968.

Folder 20 M/V *Sioux City*, 1968.

Folder 21 *South Pacific Bulletin*, 1968.

Box 7

Folder 1 Specimen distribution: archeological, 1964.

Folder 2 Specimen distribution: birds, 1964-1969.

Folder 3 Specimen distribution: bird stomachs, 1964.

- Folder 4 Specimen distribution: fishes, 1964-1967.
- Folder 5 Specimen distribution: herps, 1964-1970.
- Folder 6 Specimen distribution: insects, 1965-1966.
- Folder 7 Specimen distribution: mammals, 1964-1970.
- Folder 8 Specimen distribution: mice, 1965-1967.
- Folder 9 Specimen distribution: miscellaneous, 1964-1969.
- Folder 10 Specimen distribution: mollusks, 1964-1967.
- Folder 11 Specimen distribution: soil and rocks, 1964.
- Folder 12 Specimen distribution: University of Arizona, 1966-1967.
- Folder 13 Specimens, location of Pacific Project, undated.
- Folder 14 Squid, 1964.
- Folder 15 Stomach analysis, 1964-1966.
- Folder 16 Subcontract: University of Hawaii, 1963-1965.
- Folder 17 Television, 1968.
- Folder 18 Turtle tags, 1965.
- Folder 19 Typing procedures, undated.
- Folder 20 Work outlines, 1965-1969, and undated.
- Folder 21 Xerox, 1966-1967.

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Series 2: CONTRACTS, 1962-1969.

This series contains correspondence, proposals, and agreements concerning the contracts between the Smithsonian and the Army for the project.

Box 8

Folder 1 Contract (original), 1962.

Folder 2 Contract agreement, June 24, 1963.

Folder 3 Contract amendment, 1963-1964, 1969.

Folder 4 Contract proposal, 1965.

Folder 5 1966 contract, 1965-1966.

Folder 6 1967 contract, 1966-1967.

Folder 7 1968 contract, 1968-1969.

Folder 8 Contract proposal, 1969.

Folder 9 1970 proposal, 1969.

Folder 10 ARO contract, 1968-1969.

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Series 3: TRAVEL, 1962-1970.

This series contains travel authorities, itineraries, and other forms related to travel by POBSP personnel.

Box 8

Folders 11-12 A - B.

Box 9

Folder 1 Jane P. Church, 1966-1969.

Folder 2 Richard S. Crossin, 1965-1970.

Folders 3-4 C - EII.

Folder 5 Charles A. and Janice Ely, 1963-1969.

Folders 6-7 Es - G.

Box 10

Folders 1-3 Ha - Hu.

Folder 4 Philip S. Humphrey, 1962-1970.

Folders 5-6 J - Ma.

Box 11

Folders 1-3 Me - Sc.

Folder 4 Philip C. Shelton, 1964-1970.

Folder 5 Si - Su.

Folders 6-7 T - W.

Folder 8 Division travel, 1963-1964.

Folder 9 Travel information, 1965-1969.

Folder 10 Travel: interviews, 1962-1968.

Folder 11 Travel log, 1962-1970.

Folder 12 Travel, personnel: monthly reports, 1966-1970.

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Series 4: CORRESPONDENCE, 1963-1972.

This series contains a reading file, 1963-1964; a chronological file of correspondence, 1965-1972, which was apparently never filed, or pulled from files and not returned; and a file of correspondence by staff members.

Box 12

Folder 1 Reading file, 1963-1964.

Folder 2 Miscellaneous correspondence, 1965-1972.

Folder 3 Crossin, Richard S., 1968-1970.

Folder 4 Ely, Charles A., 1964-1966.

Folder 5 Honolulu: Hackman, C. Douglas, 1964-1968, and undated.

Box 13

Folders 1-4 Humphrey, Philip S., 1965-1970.

Folder 5 Long, Charles R., 1964-1966.

Folders 6-9 Pyle, Robert L., 1966-1969.

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Series 5: ANNUAL AND ARMY REPORTS, 1963-1969.

Box 14

Folder 1 "Preliminary Report on Patterns of Bird Migration in the Pacific Area," 1963.

Folder 2 Annual report, 1964.

Folder 3 Annual report, 1965.

Folder 4 April 1966 report and summary.

Folder 5 Annual report, 1966.

Folder 6 April 1967 report, Volume III.

Folder 7 Annual report, 1967.

Box 15

Folder 1 Army report, 1968.

Folder 2 Annual report, 1968.

Folder 3 Army report, 1969.

Folder 4 Annual report, 1969.

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Series 6: HAWAII OFFICE FILES, 1963-1969.

Box 15

Folder 5 Correspondence, 1963-1969.

Folders 6-12 Weekly reports, 1964-1965.

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Series 7: MISCELLANEOUS REPORTS, 1963-1968.

Box 16

Folder 1 "Preliminary Report on Patterns of Bird Migration in the Pacific Area," January 1963.

Folder 2 "Report on Smithsonian Institution Pacific Project Field Trip." May 1963.

Folder 3 McFarlane, Robert W. "Repopulation Rates of Pacific Island Birds." June 1963.

Folder 4 "A Guide to the Birds of the North Central Pacific Ocean." July 1963.

Folder 5 "Birds of Johnston, Howland, Baker, and Canton Islands." July 1963. Marked "Voided."

Folder 6 "Central Pacific: Birds of Howland, Baker, and the Phoenix Islands (Summary)." August 1963.

Folder 7 Clapp, Roger B. "Preliminary Guide to the Breeding Biology of Central Pacific Birds." September 1963.

Folder 8 Amerson, A. Binion, Jr. "Preliminary Report on Fluctuations of Tick Populations on Central Pacific Islands." October 1963.

Folder 9 "Pacific Ocean Biological Survey Program." November 1963.

Folder 10 a) Cochran, William W., Jr. "Possibilities for the Use of Radar in Taking a Quantitative Survey of Birds at Sea." July 1963. b) Ely, Charles A. "Progress Report - S.I. Radar Feasibility Study." 1964.

Folder 11 Hoeman, J. Vincent. "Dark-rumped Petrel on the island Hawaii." April 1964.

Folder 12 Sibley, Fred C. "Movement of Blue-faced Boobies in the Phoenix and Line Islands." April 1964.

Folder 13 Doty, Maxwell Stanford. Oceanography report - subcontract SI-603. June 1964.

Folder 14 Husted, Dayle N. "*Charles H. Gilbert* Cruise 74, August 1964."

Folder 15 "Occurrence of Birds at Sea in the Central Pacific, January-August 1964." September 1964.

Folder 16 "Field Manual." October 1964.

Folder 17 Standen, Robert S. "Report of *Charles H. Gilbert* Cruise 76." Circa November 1964.

Folder 18 Amerman, Kenneth E. Marshall-Gilberts At-sea report, November 1964.

Folder 19 Standen, Robert S. "Report of *Charles H. Gilbert* Cruise 77." November 1964.

Folder 20 "Occurrence of Birds at Sea in the Central Pacific, September-October 1964." November 1964.

Folder 21 Thompson, Max C. "Preliminary Report on the Banding of Ruddy Turnstones at St. George Island, Alaska," November 1964.

Folder 22 Amerson, A. Binion, Jr. "Key to Arthropods of Medical Importance." May 1965.

Folder 23 Standen, Robert S. "Bird Observations, Oahu to Baker Island, May 1965." July 1965.

Box 17

Folder 1 Gould, Patrick J. Data on bird distribution within 100 miles of Hawaii and Leeward Islands, from Oahu to Johnston Atoll, within 100 miles of Johnston, October 1965.

Folder 2 "The Migration of the Ruddy Turnstone, *Arenaria interpres*, in the Pacific Region," circa December 1965.

Folder 3 Amerson, A. Binion, Jr. "Preliminary Report on the Medically Important Arthropods in the Central Pacific," March 1966.

Folder 4 King, Warren B. "Trip Report, USS *Granville Hall*, Honolulu to Seattle, April 11-April 24, 1966."

Folder 5 DeLong, Robert L. "Pelagic Survey, Honolulu to San Francisco, 18-28 April 1966." (Miscellaneous Pelagic Cruise 4).

Folder 6 Amerson. "Key to Arthropods of Medical Importance," May 1966.

Folder 7 "The Pacific Ocean Biological Survey Program." Circa May 1966.

Folder 8 Crossin, Richard S. "Notes on the Laysan Finch." June 1966.

Folder 9 Balcomb, Kenneth C. "Summary Report on the Status of the Hawaiian Monk Seal, *Monachus schauinslandi*, Laysan and Lisianski Islands, 10-22 June 1966." 1966.

Folder 10 Husted, Dayle N. "Trip Report, Miscellaneous Pelagic Cruise 5, Honolulu to Guam, June 2 to 27, 1966, U.S.C.G.C. *Basswood*."

Folder 11 Creighton, Reginald. "The Pacific Project Data System: A Tool for the Utilization of Bird Data," June 1966.

Folder 12 Woodward, Paul W. "Aging and Sexing of Several Species of Central Pacific Seabirds," July 1966.

Folder 13 Ely, Charles A. "Molt and Plumage Notes from Pelagic Sooty Terns," August 1966.

Folder 14 Harrington, Brian A. "Trip Report, USS *Granville Hall* Portland to Honolulu, 24 July to 1 August 1966." (Miscellaneous Pelagic Cruise 6).

Folder 15 Woodward, Paul W. "Summary of Pelagic Bird Observations Made North of the Hawaiian Islands, Miscellaneous Pelagic Cruise 7, August 2 to 29, 1966, USC & GS Ship *Surveyor*."

Folder 16 "Seabird Ticks of the East Pacific Ocean," September 1966.

Folder 17 Schreiber, Ralph W. "Mokapu Point Rat-trapping Program," October 1966.

Folder 18 Thompson, Max C. "The Trans-Pacific Migration of the Ruddy Turnstone," circa December 1964.

Folder 19 Hackman, C. Douglas. "Brief Descriptions of the Phoenix, Line, and Tokelau Islands," December 1966.

Folder 20 Balcomb, Kenneth C. "Observations on Cetaceans in the Central Pacific," circa 1967.

Folder 21 King, Warren B. Preliminary Smithsonian Identification Manual, Seabirds of the Tropical Pacific Ocean. April 1967.

Folder 22 "April-May 1967. Marshall Islands Trip Report. II. Pelagic Survey, Miscellaneous Cruise 8."

Folder 23 Schreiber, Ralph W. "Studies on Western Gull (*Larus occidentalis*) Breeding Biology on San Nicolas Island, California, 1968."

Folder 24 Harrington, Brian A. "Miscellaneous Cruise 9, USFWS *Townsend Cromwell*, 9-23 February 1968."

Folder 25 "Miscellaneous Pelagic Cruise 11, Midway Atoll to Kure Atoll, 9 September 1968."

Folder 26 Clapp, Roger B. "A Preliminary Checklist of the Birds of Howland, Baker, and the Phoenix and Line Islands," October 1968.

Folder 27 Fleet, Robert R. "Factors Affecting Nesting Success in the Red-tailed Tropicbird (*Phaethon rubricauda*)," undated.

Folder 28 Kirkpatrick, Ralph D. "Preliminary Report on Rodent Studies on Johnston Atoll," undated.

Folder 29 "Seabirds of the Central, Eastern, and Northern Pacific Ocean," undated.

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Series 8: PACIFIC BIRD OBSERVER FILES, 1964-1970.

This series contains files concerning the *Pacific Bird Observer*, a newsletter put out by the program from September 1965-April 1968 on an irregular schedule. The newsletter was an attempt to publicize the program and keep volunteers informed of its progress.

Box 18

Folder 1 *Pacific Bird Observers' Notebook*.

Folders 2-10 *Pacific Bird Observer* newsletter, 1965-1968. Notes, drafts, and copy for newsletters.

Folder 11 Correlated information, 1965-1967.

Folder 12 Requests and mailing lists, 1964-1967.

Folder 13 General correspondence: Alaska and British Columbia, 1965.

Folder 14 General correspondence: Australia, 1965.

Folder 15 General correspondence: Banded and color-tagged birds, reports, 1964-1965.

Box 19

Folder 1 General correspondence: California, 1965-1967.

Folder 2 General correspondence: Caroline, Gilbert, Ellice, Mariana, New Guinea, Okinawa, and Philippine Islands, 1964-1967.

Folder 3 General correspondence: Cook, Samoa, Niue, Tonga, and Fiji Islands, 1965-1970.

Folder 4 General correspondence: directors and editors, 1964-1966.

Folder 5 General correspondence: French Polynesia, 1965.

Folder 6 General correspondence: Hawaii, 1965-1967.

Folder 7 General correspondence: India, Ceylon, and Seychelles, 1965.

Folder 8 General correspondence: Japan, 1965-1966.

Folder 9 General correspondence: Korea, Taiwan and Philippines, 1965-1968.

Folder 10 General correspondence: Mexico, Panama, and Costa Rica, 1965.

Folder 11 General correspondence: Miscellany, 1965-1969.

Folder 12 General correspondence: New Caledonia and New Hebrides, 1965.

Folder 13 General correspondence: New Guinea, British Solomons, and Indonesia, 1965.

Folder 14 General correspondence: New Zealand, Niue, Kermadec, and Chatham, 1964-1965, 1968.

Folder 15 General correspondence: slide loans, 1965, 1967.

Folder 16 General correspondence: South America, Galapagos, and Easter Islands, 1965.

Folder 17 General correspondence: Vietnam, Thailand, Burma, Malaysia, and Hong Kong, 1965.

Folder 18 General correspondence: Washington and Oregon, 1965, 1967.

Folder 19 Requests for cooperation, circa 1964. Printed notices in English, French, Hindi, Japanese, and Spanish.

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Series 9: FIELD CORRESPONDENCE, 1963-1970.

This series contains a chronological file of correspondence to and from program personnel in the field. Routine correspondence, requesting supplies, etc., was weeded from the files by program personnel before transfer to the Archives.

Box 20

Folders 1-10 1963-1964.

Box 21

Folders 1-8 1965-1966.

Box 22

Folders 1-16 1967-1970.

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Series 10: MONTHLY FIELD SUMMARIES, 1965-1969.

This series contains monthly reports on POBSP field activities including personnel assignments, general developments, pelagic studies, island stations, birds collected, birds banded, sera collections, and live bird and tick shipments.

Box 23

Folders 1-5 Monthly field summaries, 1965-1969.

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Series 11: FIELD GUIDE.

This series contains a three-part "Field Guide to Birds of the Central Pacific," apparently assembled by the POBSP for use by its field personnel. It includes sections on species accounts, island accounts, and bird identification.

Box 23

Folders 6-19 Part I: Species accounts.

Folder 6 Loon, albatrosses.

Folder 7 Fulmar, shearwaters.

Folder 8 Petrels.

Folder 9 Tropicbirds.

Folder 10 Boobies.

Folder 11 Cormorant.

Folder 12 Frigatebirds.

Folder 13 Herons, egrets, ibis.

Folder 14 Geese, ducks.

Folder 15 Hawks, osprey, falcons.

Folder 16 Shorebirds.

Folder 17 Terns.

Folder 18 Landbirds.

Folder 19 Bibliography.

Box 24

Folder 1 Part II: Island accounts.

Folders 2-6 Part III: Identification.

Folder 2 Introduction.

Folder 3 Albatrosses, shearwaters, petrels.

Folder 4 Tropicbirds, boobies, frigatebirds.

Folder 5 Geese, ducks, shorebirds.

Folder 6 Skua, terns, gulls, stray landbirds, bibliography.

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Series 12: FIELD NOTES AND JOURNALS, 1923, 1963-1968.

This series contains photocopies of field notes and journals kept by POBSP personnel during the project. Also included is a copy of Alexander Wetmore's notes from a 1923 Pacific field trip.

Box 24

Folder 7 Amerman, Kenneth E., 1964, 1966.

Folder 8 Amerson, A. Binion, Jr., 1963.

Folder 9 Anderson, Alan H., 1964.

Folder 10 Balcomb, Kenneth C., 1966.

Folder 11 Bratley, David A., 1964-1965.

Folder 12 Bulmer, Walter, Jr., 1966-1967.

Folder 13 Burckhalter, David L., 1967.

Box 25

Folder 1 Chandler, Richard D., 1966.

Folder 2 Clapp, Roger B., 1963-1964, 1968.

Folders 3-5 Crossin, Richard S., 1965-1966, 1968.

Folder 6 Ely, Charles A., 1963-1964.

Folder 7 Fitch, John H., 1966.

Folders 8-9 Fleet, Robert R., 1963-1965.

Folder 10 Gill, Douglas E., 1964.

Folder 11 Gould, Patrick J., 1963-1965.

Box 26

Folders 1-2 Hackman, C. Douglas, 1964-1965, 1967.

Folder 3 Heiden, Richard S., 1966.

Folder 4 Heryford, Norman N., 1965.

Folder 5 Hoeman, J. Vincent, 1964.

Folder 6 Hoff, David I., 1966.

Folder 7 Huber, Lawrence N., 1963-1966.

Folder 8 Husted, Dayle N., 1964.

Folder 9 Johnston, David W., 1964.

Folder 10 Kepler, Cameron B., 1964-1965.

Folders 11-12 King, Warren B., 1963-1964.

Box 27

Folder 1 Kirkpatrick, Ralph D., 1964-1965.

Folder 2 Kridler, Eugene, undated.

Folders 3-4 Lehner, Philip N., 1964-1965.

Folder 5 Long, Charles R., 1964.

Folder 6 Ludwig, James P., 1963-1964.

Folder 7 McFarlane, Robert W., 1963.

Folder 8 Marshall, Peter, 1964.

Folder 9 Maze, Richard L., 1965-1966.

Folder 10 Merrill, Richard W., 1964.

Folder 11 Schreiber, Ralph W., 1966-1967.

Folder 12 Sibley, Fred C., 1963-1965.

Folder 13 Smith, Frank, 1966.

Folder 14 Stadel, Dennis L., 1964.

Box 28

Folders 1-2 Stadel, Dennis L., 1964-1965, 1967.

Folders 3-4 Standen, Robert S., 1964-1965.

Folder 5 Sundell, Robert A., 1963-1964.

Folders 6-7 Thompson, Max C., 1964-1967.

Folder 8 Tordoff, Jeffrey P., 1965.

Folder 9 Tuxson, Robert W., 1966.

Folder 10 Wetmore, Alexander, 1923.

Folder 11 Wirtz, William O., II, 1963-1964.

Folder 12 Wislocki, George S., 1963-1964.

Folder 13 Woodward, Paul W., 1964-1965.

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Series 13: GENERAL BANDING FILES, 1963-1971.

This series contains correspondence, reports, and miscellaneous data and schedules for the bird-banding portion of the project. This material deals with general aspects of the banding program, and generally does not contain data.

Box 29

- Folder 1 Analysis of red-footed booby movements, 1969.
- Folder 2 N. P. Ashmole banding data, 1964.
- Folder 3 *An Asian Bird Bander's Manual*, 1966.
- Folder 4 At-sea banding schedules, 1964-1966.
- Folder 5 At-sea recoveries, 1965.
- Folder 6 At-sea recoveries and specimen information.
- Folder 7 Band orders.
- Folder 8 Banding manual.
- Folders 9-11 Banding Office correspondence, 1963-1971.
- Folder 12 Banding Office, schedules sent, 1963-1970.
- Folder 13 Banding Office, Crissey-Carlson correspondence, 1964-1965.
- Folder 14 Banding Office, reports returned.
- Folder 15 Banding records, instructions for keeping.
- Folder 16 Banding summary, 1963.

Box 30

- Folders 1-6 Banding summaries, 1964-1969.
- Folder 7 Banding totals to 1966.
- Folder 8 Banding totals to 1967.
- Folder 9 Banding totals, by location.
- Folder 10 Banding totals, Hawaiian Islands.
- Folder 11 Banding totals, Leeward Hawaiian Islands, 1963-1965.
- Folder 12 Banding totals, Midway Islands.
- Folder 13 Banding totals, by species.
- Folder 14 Catalog pages for bands received.
- Folders 15-16 Color-marked birds, 1964-1968.

Box 31

Folder 1 Correspondence with band recoverers, 1966-1968.

Folder 2 Destroyed bands.

Folder 3 Errors in return schedules corrected.

Folder 4 Etched bands, 1968.

Folder 5 French Frigate Shoals, banding schedules, 1967-1968.

Folder 6 Guadalupe Island, bird recovery reports, 1968.

Folder 7 Humphrey, Philip S., banding data.

Folder 8 Interisland movements, banding totals, 1969.

Folder 9 Island coordinates.

Folder 10 Miscellaneous banding data.

Folder 11 Mortality record, 1963-1968.

Folder 12 Rebandings.

Folder 13 Recoveries at site of original banding.

Folder 14 Western Bird-Banding Association, circa 1963-1970.

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Series 14: BANDING MEMORANDA BOOKS, 1960-1961, 1963-1969.

This series consists of memoranda books that were carried in the field by POBSP personnel and contain original banding data. In addition to data on banding, returns, and recoveries, there are occasional notes on specimens taken, weather, supplies, and itineraries, as well as some journal-type entries.

The memo books are arranged in the following order and chronologically thereunder: Leeward Hawaiian Islands, main Hawaiian Islands, Kure Atoll, Sand-Johnston, Marshall and Gilbert Islands, Eniwetok Atoll, Wake Island, Southern Island Cruises, islands in the SIC area that were visited apart from SIC cruises, Eastern Area Cruises (EAC), Eastern Pacific Offshore Islands (that were visited apart from EAC cruises), Gulf of Panama, personal notebooks, and unidentified notebooks.

Box 32

Folder 1 Leewards Survey 3, March 1964.

Folder 2 Leewards Survey 5, September 1964.

Folder 3 Leewards Survey 6, September 1964. Also includes data for Midway, February 1965, and Kure, February-April 1965.

Folders 4-7 Leewards Survey 13, June 1966.

Folder 8 Leewards Survey 14, July-August 1966.

Folder 9 Leewards Survey 15, August-September 1966.

Box 33

Folder 1 Leewards Survey 16, September 1966.

Folders 2-3 Leewards Survey 17, October 1966.

Folders 4-6 Leewards Survey 19, May-June 1967.

Box 34

Folders 1-2 Leewards Survey 19, June 1967.

Folders 3-4 Leewards Survey 20, May-June 1967.

Folder 5 Leewards Survey 21, August-September 1967.

Folder 6 Leewards-French Frigate Shoals, August 1965.

Folder 7 Leewards-French Frigate Shoals, June-July 1966.

Box 35

Folder 1 Leewards-French Frigate Shoals, June 1968.

Folder 2 Leewards-French Frigate Shoals, June 1969. (Leewards-Midway, February 1965, see Box 32, Folder 3, above; October and December 1964, March 1965, see Box 62, Folder 5, below.)

Folder 3 Leewards-Midway, July 1965.

Folder 4 Leewards-Midway, June 1966.

Folder 5 Leewards-Midway, July 1966.

Folder 6 Leewards-Midway, August-October 1966.

Folder 7 Leewards-Midway, December 1966-January 1967.

Folder 8 Leewards-Midway, April-May 1969.

Folder 9 Leewards-Pearl and Hermes, 1963-1964.

Folder 10 Kauai-Kilauea Point, 1965-1968. See also Box 36, Folder 2, and
Box 37, Folder 8, below. (Maui - See Box 38, Folder 1, below.)

Box 36

Folder 1 Oahu-shorebirds, September-October 1965.

Folder 2 Oahu-Mokapu Point, February and July 1964. Also contains data on
Kauai, July 1964, April-May 1965, and Mokolii, April 1965.

Folder 3 Oahu-Mokapu Point, April 1965. Also includes data on Popoia, April
1965. See also Box 62, Folder 5, below.

Folder 4 Oahu-Mokapu Point, June 1965. Also contains data on Popoia, July
1965.

Folder 5 Oahu-Mokapu Point, June 1966.

Folder 6 Oahu-Mokapu Point, July and November 1966.

Folder 7 Oahu-Mokapu Point, 1967-1968. Also includes data on Moku Manu,
March 1967.

Folder 8 Oahu Offshore Islands-Kapapa, January 1968.

Folder 9 Oahu Offshore Islands-Manana, July 1965.

Folder 10 Oahu Offshore Islands-Manana, September-October 1965.

Folder 11 Oahu Offshore Islands-Manana, March-April 1966.

Folder 12 Oahu Offshore Islands-Manana, May 1966.

Box 37

Folders 1-4 Oahu Offshore Islands- Manana, May-June 1966.

Folder 5 Oahu Offshore Islands-Manana, 1966-1968.

Folder 6 Oahu Offshore Islands-Mokolii, February 1967. (Oahu Offshore
Islands-Mokolii - See Box 36, Folder 2, above; Box 38, Folder 2, below.)

Folder 7 Oahu Offshore Islands-Mokulua, February 1967.

Folder 8 Oahu Offshore Islands-Mokuauia, August 1965. Also includes data on Kauai, February and May 1966.

Folder 9 Oahu Offshore Islands-Mokuauia, February 1967. (Oahu Offshore Islands-Mokuauia, see Box 38, Folder 2, below.)

Folder 10 Oahu Offshore Islands-Moku Manu, March 1964. (Oahu Offshore Islands-Moku Manu, see Box 36, Folder 7, above.)

Folder 11 Oahu Offshore Islands-Moku Manu, May and September, 1967.

Box 38

Folder 1 Oahu Offshore Islands-Poipoia, October 1964, April, May, and July 1965. Also includes data on Maui, July 1965. See also Box 36, Folders 3 and 4, above, and Box 62, Folder 5, below.

Folder 2 Oahu Offshore Islands-Poipoia, June 1966; February, April-May, and November 1967; February 1968. Also includes data on Mokolii and Mokuauia, May 1967.

Folders 3-8 Kure, February 1964-May 1965. See also Box 62, Folder 5, below.

Box 39

Folders 1-6 Kure, January 1966-July 1968.

Box 40

Folders 1-5 Kure, June 1968-June 1969.

Folders 6-7 Sand-Johnston, 1963-1964.

Box 41

Folders 1-7 Sand-Johnston, January 1965-October 1966. See also Box 62, Folder 5, below.

Box 42

Folders 1-9 Sand-Johnston, October 1966-August 1968.

Box 43

Folders 1-2 Sand-Johnston, September 1968-June 1969.

Folder 3 Marshall and Gilbert Islands, 1964.

Folders 4-8 Eniwetok Atoll, 1968-1969.

Folder 9 Wake Island, 1965, 1968.

Box 44

Folders 1-5 Southern Island Cruise 5, June-July 1964.

Folders 6-9 Southern Island Cruise 6, October-December 1964.

Box 45

Folders 1-4 Southern Island Cruise 6, October-December 1964.

Folders 5-10 Southern Island Cruise 7, January-March 1965.

Box 46

Folders 1-8 Southern Island Cruise 7, January-March 1965.

Folder 9 Southern Island Cruise 8, January-March 1965.

Box 47

Folders 1-10 Southern Island Cruise 8, January-March 1965.

Box 48

Folders 1-9 Southern Island Cruise 9, September-November 1965.

Box 49

Folders 1-7 Southern Island Cruise 9, September-November 1965.

Folders 8-9 Southern Island Cruise 10, November-December 1965.

Box 50

Folders 1-8 Southern Island Cruise 11, January-March 1966.

Box 51

Folders 1-11 Southern Island Cruise 13, March-May 1966.

Box 52

Folders 1-9 Southern Island Cruise 13, March-May 1966.

Folders 10-11 Southern Island Cruise 14, July-August 1966.

Box 53

Folders 1-10 Southern Island Cruise 14, July-August 1966.

Box 54

Folders 1-9 Southern Island Cruise 15, September-October 1966.

Box 55

Folders 1-9 Southern Island Cruise 15, September-October 1966. Notebook
in Folder 6 also contains data from SIC 17.

Box 56

Folders 1-9 Southern Island Cruise 16, November-December 1966.

Box 57

Folders 1-2 Southern Island Cruise 16, November-December 1966.

Folders 3-9 Southern Island Cruise 17, January-March 1967.

Box 58

Folders 1-9 Southern Island Cruise 17, January-March 1967.

Box 59

Folder 1 Southern Island Cruise 17, January-March 1967.

Folders 2-9 Southern Island Cruise 18, March-May 1967.

Box 60

Folders 1-5 Southern Island Cruise 18, March-May 1967.

Folder 6 Southern Island Cruise 19, June-July 1968.

Folder 7 Southern Island Cruise 20, October-November 1968.

Folder 8 Southern Islands-Baker, 1965 and undated.

Folders 9-10 Southern Islands-Christmas, April 1967-January 1968.

Box 61

Folder 1 Southern Islands-Fanning, December 1967.

Folder 2 Southern Islands-Hull (?), undated.

Folder 3 Southern Islands-McKean (?), undated.

Folders 4-5 Southern Islands-Palmyra, November 1966.

Folder 6 Southern Islands-Washington, December 1967.

Folder 7 Eastern Area Cruises 21, 23, and 29, 1967.

Folder 8 Eastern Area Cruise 37, February 1968.

Folder 9 Eastern Area Cruise 40, April 1968.

Folder 10 Eastern Area Cruise 41, May 1968.

Box 62

Folders 1-2 Eastern Pacific Offshore Islands, April-August 1968.

Folder 3 Gulf of Panama, March 1969.

Folders 4-5 Personal notebooks, 1960-1961, 1964-1966, 1968, and undated.

Folder 6 Unidentified notebooks.

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Series 15: BAND LISTINGS.

This series contains data on where, when, and what type of bird bands were used. The data are arranged numerically by band prefix.

Box 62

Folder 7 Prefixes 60, 63, 72, 102, 109.

Folder 8 Prefixes 632, 642, 652, 682, 712, 722.

Folder 9 Prefixes 723, 743, 753, 763, 773, 793.

Folder 10 Prefixes 813, 823, 843, 853, 863, 893.

Folder 11 Prefixes 903, 913, 923, 933, 943, 953, 993.

Folder 12 Prefixes 1033, 1073, 1103.

Folder 13 Prefixes 514, 524, 534, 544, 564.

Folder 14 Prefixes 535, 565, 575, 595.

Folder 15 Prefixes 605, 615, 625, 635, 645, 705.

Folder 16 Prefixes 626, 706.

Folder 17 Prefix 587.

Folder 18 Prefixes 597, 647, 667, 707, 727.

Folder 19 Prefix 737.

Folder 20 Prefix 747.

Folder 21 Prefix 757.

Folder 22 Prefixes 767, 777, 797, 837.

Folder 23 Prefixes 558, 568.

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Series 16: BANDING RECORD BOOKS, 1963-1969.

This series contains record books in which banding data from the memoranda books (Series 14) was compiled. They are arranged alphabetically by island or cruise and chronologically thereunder.

Box 63

- Folder 1 French Frigate Shoals, 1965.
- Folder 2 French Frigate Shoals, June-July 1966.
- Folder 3 French Frigate Shoals, August 1966. Includes population counts, specimen records, turtle tags, streamer sightings, and seal tags.
- Folder 4 French Frigate Shoals, May-June 1967.
- Folder 5 French Frigate Shoals, June 1968.
- Folder 6 French Frigate Shoals, June 1969.
- Folder 7 Gilbert and Marshall Islands, October-November 1964.

Box 64

- Folder 1 Hawaiian Islands, 1964.
- Folders 2-4 Kure, 1963-1965. (Volume II missing).
- Folder 5 Leewards Survey 3, March 1964.
- Folder 6 Leewards, August-September 1964.
- Folder 7 Leewards Survey 7, March 1965.

Box 65

- Folder 1 Leewards Survey 13, June 1966.
- Folder 2 Leewards, October 1966.
- Folder 3 Leewards Survey 18, March 1967.
- Folders 4-5 Leewards Survey 19, May-June 1967.
- Folder 6 Leewards, August-September 1967.
- Folder 7 McKean, 1968.

Box 66

- Folder 1 Midway, June 1966.
- Folder 2 Palmyra, November 1966.
- Folders 3-7 Sand-Johnston, 1963-1965.

Box 67

Folders 1-6 Sand-Johnston, 1966-1968.

Box 68

Folders 1-2 Southern Island Cruise 15, 1966.

Folder 3 Southern Island Cruise 16, 1966.

Folder 4 Southern Island Cruise 17, 1967.

Folder 5 Southern Island Cruise 18, 1967.

Folder 6 Wake, 1965-1966.

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Series 17: BANDING AND RECOVERY SCHEDULES, 1963-1969.

This series consists of schedules containing data on band sizes, numbers, banding locations, birds banded, and sex of banded birds. Also included are schedules listing recoveries of POBSP-banded birds. Please note the following: (1) for every banding schedule there is not necessarily a recovery schedule; (2) the recovery schedule for the first banding schedule in a folder will generally be found in the preceding folder; (3) folders contain both banding and recovery schedules unless otherwise noted; (4) schedules for small bands are in Box 94.

Box 69

Folder 1 682-45001 to 682-48000.

Folders 2-5 712-00001 to 712-10000.

Folder 6 712-50001 to 712-52000.

Folders 7-8 712-55001 to 712-59600.

Folders 9-11 722-10001 to 722-18000.

Folders 12-15 723-60001 to 723-70000.

Folders 16-19 743-30001 to 743-40000.

Box 70

Folders 1-2 743-45001 to 743-50000.

Folders 3-4 743-55001 to 743-60000.

Folder 5 743-72001 to 743-74000.

Folders 6-17 753-00001 to 753-30000.

Box 71

Folders 1-20 753-30000 to 753-80000.

Box 72

Folders 1-8 753-80000 to 753-99999, 753-00000.

Folders 9-12 763-92001 to 763-99999, 763-00000.

Folders 13-20 773-00001 to 773-20000.

Box 73

Folders 1-12 773-20001 to 773-50000.

Folders 13-14 773-70001 to 773-75000.

Folders 15-22 793-20001 to 793-43300.

Box 74

Folders 1-4 793-43301 to 793-52200.

Folders 5-23 793-54001 to 793-99999, 793-00000.

Box 75

Folders 1-10 813-75001 to 813-99999, 813-00000.

Folders 11-25 823-00001 to 823-40000.

Box 76

Folders 1-4 823-40001 to 823-50000.

Folders 5-10 843-35001 to 843-50000.

Folder 11 843-50001 to 843-52500 (banding only).

Folders 12-27 843-52501 to 843-90000.

Box 77

Folders 1-4 843-90001 to 843-9999, 843-00000.

Folders 5-9 853-00001 to 853-12500.

Folders 10-11 853-12501 to 853-16000 (banding only).

Folders 12-25 853-16001 to 853-60000.

Box 78

Folders 1-3 853-60001 to 853-67500 (banding only).

Folder 4 853-67501 to 853-70000.

Folder 5 853-70001 to 853-72500 (banding only).

Folder 6 853-72501 to 853-75000.

Folders 7-9 853-75001 to 853-82500 (banding only).

Folders 10-17 853-82501 to 853-99999, 853-00000.

Folders 18-24 863-00001 to 863-16000.

Folders 25-31 863-16201 to 863-35000.

Folders 32-33 863-35001 to 863-40000 (banding only).

Box 79

Folders 1-25 863-40001 to 863-81700.

Folders 26-27 863-81701 to 863-82400 (banding only).

Folders 28-35 863-82401 to 863-90500.

Folders 36-39 863-92001 to 863-99999, 863-00000 (banding only).

Folders 40-44 893-00001 to 893-15000.

Folders 45-46 893-15001 to 893-20000 (banding only).

Box 80

Folder 1 893-200001 to 893-22500.

Folders 2-9 893-22501 to 893-42500 (banding only).

Folders 10-11 893-42501 to 893-47500.

Folders 12-14 893-47501 to 893-55000 (banding only).

Folder 15 893-55001 to 893-99999, 893-00000.

Folders 16-25 903-00001 to 903-20000.

Box 81

Folders 1-4 903-20001 to 903-90000.

Box 82

Folders 1-3 903-90001 to 903-99999, 903-00000.

Folders 4-37 913-00001 to 913-90500.

Box 83

Folders 1-2 913-90501 to 913-99999, 913-00000.

Folder 3 923-00001 to 923-02500 (banding only).

Folders 4-13 923-02501 to 923-30000.

Folders 14-18 923-30001 to 923-43700 (banding only).

Folders 19-21 923-43701 to 923-52500.

Folders 22-24 923-52501 to 923-60000 (banding only).

Folders 25-28 923-60001 to 923-99999, 923-00000.

Box 84

Folders 1-24 933-00001 to 933-60000.

Box 85

Folders 1-28 933-60001 to 933-99999, 933-00000.

Folders 29-49 943-00501 to 943-30000.

Box 86

Folders 1-8 943-30001 to 943-60000.

Folder 9 943-60001 to 943-64000 (banding only).

Folder 10 943-64001 to 943-84000.

Folders 11-12 943-84001 to 943-86000 (banding only).

Folder 13 943-86001 to 843-87000.

Folders 14-17 943-87001 to 943-99999, 943-00000 (banding only).

Folders 18-30 953-00001 to 953-50000.

Folder 31 953-50001 to 953-65000 (banding only).

Folders 32-33 953-69501 to 953-94500.

Folder 34 993-00001 to 993-03000.

Folders 35-39 993-03001 to 993-42000 (banding only).

Folders 40-41 993-42001 to 993-50883.

Box 87

Folder 1 1033-00001 to 1033-00800.

Folder 2 1033-00801 to 1033-05000 (banding only).

Folder 3 1033-05001 to 1033-10000.

Folder 4 1033-10001 to 1033-19500 (banding only).

Folder 5 1073-70401 to 1073-70500.

Folders 6-12 1103-00001 to 1103-07100.

Folders 13-16 514-75501 to 514-78100.

Folders 17-19 514-79001 to 514-83000.

Folder 20 524-03601 to 524-05000.

Folder 21 524-12001 to 524-13000.

Folder 22 524-94601 to 524-95600.

Folder 23 534-41501 to 534-41600.

Folder 24 544-12001 to 544-13000.

Folders 25-31 544-45000 to 544-51700.

Folders 32-34 544-52501 to 544-55000.

Folders 35-36 564-00001 to 564-02900.

Folder 37 535-13501 to 535-14100.

Folder 38 565-12001 to 565-13000.

Folder 39 565-17001 to 565-18000.

Folder 40 575-74501 to 575-74600.

Box 88

Folders 1-4 595-62001 to 595-66000.

Folders 5-6 605-11001 to 605-13000.

Folders 7-9 605-20001 to 605-23000.

Folders 10-28 615-00001 to 615-20000.

Folders 29-38 625-30001 to 625-40000.

Folders 39-42 625-85001 to 625-89000.

Box 89

Folders 1-17 635-10001 to 635-30000.

Folders 18-20 645-00001 to 645-03000.

Folder 21 645-03101 to 645-03500 (banding only).

Folders 22-25 645-04001 to 645-07600.

Folder 26 645-10001 to 645-10500.

Folder 27 645-12001 to 645-13000.

Folder 28 645-16001 to 645-16600.

Folders 29-30 645-17001 to 645-19600.

Folder 31 645-21501 to 545-21800.

Folders 32-33 645-22001 to 645-23500.

Folder 34 645-24501 to 545-25600.

Folder 35 705-00001 to 705-01000.

Folders 36-38 705-10001 to 705-13000.

Folders 39-40 705-13001 to 705-15000 (banding only).

Folders 41-43 705-15001 to 705-17900.

Folder 44 626-71201 to 626-71300.

Folder 45 706-07401 to 706-07500.

Folder 46 706-53901 to 706-54000.

Box 90

Folder 1 587-66801 to 587-68000.

Folders 2-8 587-80001 to 587-87000.

Folders 9-11 587-90001 to 587-93000.

Folder 12 587-98001 to 587-98200.

Folder 13 597-12401 to 597-12800.

Folder 14 647-60101 to 647-60200.

Folder 15 667-39501 to 667-40000.

Folder 16 707-48203 to 707-48300.

Folders 17-21 727-85001 to 727-90000.

Folders 22-29 737-20001 to 737-28000.

Folders 30-41 737-28101 to 737-40000.

Box 91

Folders 1-11 737-43501 to 737-53400.

Folders 12-13 737-68001 to 737-70000.

Folders 14-17 737-80001 to 737-87600.

Folders 18-27 737-90001 to 737-99999, 737-00000.

Folders 28-37 747-50001 to 747-60100.

Box 92

Folders 1-10 747-60101 to 747-99999, 747-00000.

Folders 11-34 757-00001 to 757-24000.

Folder 35 757-24001 to 757-25000 (banding only).

Folders 36-47 757-25001 to 757-38000.

Folders 48-49 757-38001 to 757-40000 (banding only).

Folder 50 757-40001 to 757-43200.

Box 93

Folders 1-10 757-60001 to 757-70000.

Folder 11 757-83001 to 757-83500.

Folder 12 757-89001 to 757-90000.

Folders 13-28 767-40001 to 767-55500.

Folders 29-36 777-50001 to 777-58000.

Folders 37-39 797-25001 to 797-28000.

Folder 40 797-28001 to 797-28700 (banding only).

Folder 41 797-30501 to 797-30800.

Box 94

Folders 1-2 837-10001 to 837-12000.

Folder 3 558-57776 to 558-57800 (banding only).

Folders 4-5 558-82601 to 558-83600.

Folder 6 558-85001 to 558-86000.

Folders 7-9 568-70001 to 568-72900.

Folder 10 60-156000 to 60-156800 (banding only).

Folder 11 63-192601 to 63-192800.

Folder 12 72-175501 to 72-175516 (banding only).

Folder 13 102-199401 to 102-199530 (banding only).

Folder 14 109-39901 to 109-39917 (banding only).

Folder 15 632-20001 to 632-21000.

Folders 16-20 642-00001 to 642-04900.

Folder 21 652-27001 to 652-27100 (banding only).

Folders 22-31 652-40001 to 652-49900.

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Series 18: FOREIGN BAND RECOVERIES.

This series contains copies of band recovery reports sent to the Fish and Wildlife Service's Banding Office for non-POBSP bands recovered by the project. In many cases, replies from the Banding Office giving banding information from their files are also included.

Box 95

Folder 1 Unknown species.

Folders 2-5 Black-footed albatross.

Folders 6-9 Laysan albatross.

Box 96

Folders 1-7 Laysan albatross.

Folder 8 Manx shearwater.

Folder 9 Wedge-tailed shearwater.

Folder 10 Christmas Island shearwater.

Folder 11 Phoenix Island petrel.

Box 97

Folder 1 Bonin Island petrel.

Folder 2 Red-tailed tropicbird.

Folders 3-6 Blue-faced booby.

Folder 7 Brown booby.

Box 98

Folder 1 Red-footed booby.

Folder 2 Great frigatebird

Folder 3 Laysan teal.

Folder 4 Mallard and blue-winged teal.

Folder 5 American golden plover.

Folder 6 Glaucous-winged gull.

Folder 7 Ruddy turnstone.

Folder 8 Western gull.

Folder 9 Grey-backed tern.

Folder 10 Common tern.

Folders 11-13 Sooty tern.

Folder 14 Noddy tern.

Folder 15 Hawaiian noddy tern.

Folder 16 Fairy tern.

Folder 17 Bulwer's petrel.

Folder 18 Cassin's auklet.

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Series 19: SMITHSONIAN BAND RECOVERIES.

This series contains copies of reports sent to the Fish and Wildlife Service's Banding Office for POBSP bands recovered by the project. Some replies giving banding information from the Banding Office are included, but the information is also available elsewhere in this record unit.

Box 99

Folder 1 Miscellaneous birds.

Folder 2 Black-footed albatross.

Folders 3-7 Laysan albatross.

Folder 8 Lesser frigatebird.

Box 100

Folders 1-2 Lesser frigatebird.

Folders 3-4 Brown booby.

Folders 5-6 Red-footed booby.

Folders 7-8 Great frigatebird.

Folder 9 Golden plover.

Folders 10-11 Ruddy turnstone.

Folder 12 Bar-tailed godwit.

Folders 13-14 Noddy tern.

Box 101

Folder 1 Grey-backed tern.

Folders 2-5 Wedge-tailed shearwater.

Folder 6 Christmas Island shearwater.

Folder 7 Audubon shearwater.

Folder 8 Phoenix Island petrel.

Folder 9 Bonin Island petrel.

Folder 10 White-throated storm petrel.

Folder 11 Sooty storm petrel.

Folders 12-13 Red-tailed tropicbird.

Folders 14-15 Blue-faced booby.

Folder 16 Sooty tern.

Box 102

Folders 1-9 Sooty tern.

Folder 10 Blue-gray noddy tern.

Folder 11 Hawaiian noddy tern.

Folder 12 Fairy tern.

Box 103

Folders 1-4 Ruddy turnstone.

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Series 20: SMITHSONIAN BANDS RECOVERED BY OTHERS.

This series contains reports from the Banding Office on POBSP bands recovered by non-POBSP persons. Occasionally, copies of correspondence from the recoverer to the banding office are also included.

Box 104

Folder 1 Bands recovered on same island where banded.

Folder 2 Bands recovered on islands different than where banded.

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Series 21: REPORTS ON BANDING RETURNS - BY LOCATION.

This series contains drafts and worksheets for reports on banding returns submitted by the POBSP to the Banding Office.

Box 104

- Folder 3 Alaska.
- Folder 4 Baker Island.
- Folder 5 Birnie Island.
- Folder 6 Christmas Island.
- Folder 7 Enderbury Island.
- Folder 8 Eniwetok Atoll.
- Folders 9-10 French Frigate Shoals.

Box 105

- Folder 1 French Frigate Shoals.
- Folders 2-4 Howland Island.
- Folder 5 Hull Island.
- Folder 6 Jarvis Island.
- Folder 7 Kauai.
- Folders 8-9 Kure Atoll.

Box 106

- Folders 1-3 Kure Atoll, Green Island.
- Folder 4 Kure Atoll, Midway Island, Albatross data.
- Folders 5-7 Laysan/Lisianski Islands.
- Folder 8 McKean Island.
- Folder 9 Malden Island.

Box 107

- Folder 1 Midway Island.
- Folders 2-3 Oahu.
- Folder 4 Palmyra Atoll.
- Folders 5-6 Pearl and Hermes Reef.

Folders 7-8 Phoenix Island.

Folders 9-10 Sand Island, Johnston Atoll.

Box 108

Folders 1-3 Sand Island, Johnston Atoll.

Folders 4-5 Wake Island.

Folder 6 Drafts and miscellaneous reports.

Folder 7 Reports on band returns from birds banded by others, especially Chandler S. Robbins, Dale W. Rice, and N. P. Ashmole.

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Series 22: REPORTS ON BANDING RETURNS - BY NUMBER.

This series contains copies of reports on banding returns sent by the project to the Banding Office. The reports are arranged by the project-assigned number.

Box 108

Folder 8 Index to reports; partial reports.

Folders 9-11 Reports 1-300.

Box 109

Folders 1-7 Reports 301-1000.

Folders 8-11 Reports A1-A376.

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Series 23: BANDING REPEATS.

This series contains worksheets, arranged by location, for schedules of recaptures of banded birds less than 90 days since banding or last recapture.

Box 109

Folder 12 Banding repeats.

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Series 24: AT-SEA DATA, 1963-1970.

This series contains logs, checklists, observation records, banding and recovery records, and weather and oceanographic data concerning cruises on which the project had observers. Also included are coding sheets for entering cruise data into the project's computer program. Oversize maps and charts for the cruises have been removed from the records and are listed separately at the end of the series.

The following abbreviations are used in this series: SIC - Southern Island Cruise; NGS - Northern Grid Survey; BCF - Bureau of Commercial Fisheries; EAC - Eastern Area Cruise.

Box 110

Folders 1-2 ATF/SIC 1, Moctobi, February-March 1963.

Folders 3-4 ATF/SIC 2, Tawakoni, June-July 1963.

Folders 5-6 NGS 1, Eastman, August 1963.

Folders 7-8 NGS 2, Hall, September 1963.

Folders 9-10 NGS 3, Eastman, October 1963.

Box 111

Folders 1-2 ATF/SIC 3, Tawakoni, October-November 1963.

Folders 3-4 NGS 4, Hall, November 1963.

Folders 5-6 NGS 5, Eastman, December 1963.

Folders 7-8 NGS 6, Hall, January 1964.

Folders 9-10 NGS 7, Energy, February 1964.

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Folders 1-2 ATF/SIC 4, Lipan, February-April 1964.

Folders 3-4 NGS 8, Energy, March 1964.

Folders 5-6 Leewards, Planetree, March 1964.

Folders 7-8 BCF, Cromwell, March-April 1964.

Box 113

Folders 1-2 NGS 9, LT 2081, April 1964.

Folders 3-4 BCF, Cromwell, April-May 1964.

Folders 5-6 NGS 10, Eastman, May 1964.

Box 114

Folders 1-2 BCF, Cromwell, May-June 1964.

Folders 3-4 ATF/SIC 5, Takelma, June-July 1964.

Folders 5-7 NGS 11, Shearwater, June 1964.

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Folders 1-2 BCF, Cromwell, June-July 1964.

Folders 3-4 NGS 12, Shearwater, July 1964.

Folders 5-6 BCF, Cromwell, July-August 1964.

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Folders 1-2 Gilbert, August 1964.

Folders 3-4 NGS 13, Shearwater, August 1964.

Folders 5-6 BCF, Cromwell, September 1964.

Box 117

Folders 1-3 NGS 14, Shearwater, September 1964.

Folders 4-5 Alaska, Kelez, September-October 1964.

Folders 6-7 Leewards, Bassword, September 1964.

Folders 8-9 Gilbert, September-October 1964.

Box 118

Folders 1-2 NGS 15, Hall, September-October 1964.

Folders 3-5 BCF, Cromwell, October 1964.

Folders 6-7 Marshall-Gilberts, Shearwater, October-November 1964.

Box 119

Folders 1-2 ATF/SIC 6, Lipan, October-December 1964.

Folders 3-4 NGS 16, Eastman, November 1964.

Folders 5-6 BCF, Cromwell, November 1964.

Folders 7-8 Gilbert, November 1964.

Folders 9-10 BCF, Cromwell, December 1964.

Box 120

Folders 1-2 NGS 17, Shearwater, December 1964.

Folders 3-4 NGS 18, Eastman, January 1965.

Folders 5-6 BCF, Cromwell, January 1965.

Folders 7-8 SIC 7, Hitchiti, January-March 1965.

Box 121

Folders 1-2 NGS 19, Eastman, February 1965.
Folders 3-4 BCF, Cromwell, February 1965.
Folders 5-6 Leewards, Shearwater, March 1965.
Folders 7-8 BCF, Cromwell, March 1965.

Box 122

Folders 1-2 NGS 20, Shearwater, April 1965.
Folders 3-4 BCF, Cromwell, April 1965.
Folders 5-6 NGS 21, Shearwater, May 1965.

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Folders 1-2 SIC 8, Arikara, May-July 1965.
Folders 3-4 BCF, Cromwell, May 1965.
Folders 5-6 NGS 22, Shearwater, June 1965.

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Folders 1-2 BCF Cromwell, June-July 1965.
Folders 3-4 NGS 23, Shearwater, July 1965.
Folders 5-6 NGS 24, Shearwater, August 1965.

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Folders 1-4 SIC 9, Shearwater, September-November 1965.
Folders 5-6 Alaska, Kelez, September-October 1965.

Box 126

Folders 1-2 NGS 25, Hall, November 1965.
Folders 3-6 SIC 10, Shearwater, November-December 1965.

Box 127

Folders 1-2 NGS 26, Hall, November-December 1965.
Folders 3-5 SIC 11/NGS 27, Shearwater, January 1966.

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Folders 1-2 SIC 11/NGS 27, Shearwater, February-March 1966.
Folders 3-4 SIC 12/NGS 28 & 29, Eastman, February-April 1966.

Folders 5-6 SIC 13/NSG 30, Shearwater, March-May 1966.

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Folders 1-6 SIC 13/NGS 30, Shearwater, March-May 1966.

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Folders 1-2 Honolulu-Seattle, Hall, April 1966.

Folders 3-4 Honolulu-San Francisco, Eastman, April 1966.

Folders 5-6 Miscellaneous Cruise 5, Basswood, June 1966.

Folders 7-9 Leewards 13, Shearwater, June 1966.

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Folders 1-5 SIC 14, Shearwater, July-August 1966.

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Folders 1-2 Portland-Honolulu, Hall, July-August 1966.

Folders 3-4 Miscellaneous Cruise 7, Surveyor, August 1966.

Folders 5-7 SIC 15/NGS 31 & 32 A, Shearwater, September 1966.

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Folders 1-2 SIC 15/NGS 31 & 32 A, Shearwater, September-October 1966.

Folders 3-4 NGS 32, Tawakoni, October 1966.

Folders 5-6 SIC 16/NGS 33, Shearwater, November-December 1966.

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Folder 1 SIC 16/NGS 33, Shearwater, November-December 1966.

Folders 2-3 NGS 34, Eastman, November 1966.

Folders 4-5 NGS 35, Hall, December 1966.

Folders 6-7 EAC 1, Henderson, December 1966.

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Folders 1-2 NGS 36, Eastman, January 1967.

Folders 3-4 SIC 17, Hall, January-March 1967.

Folders 5-6 EAC 2, Shearwater, January 1967.

Folders 7-8 EAC 8, Argo, January-March 1967.

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Folders 1-2 EAC 10, Rockaway, January-March 1967.

Folders 3-4 EAC 3, Shearwater, February 1967.

Folders 5-6 EAC 9, Jordan, February-March 1967.

Folders 7-8 NGS 37, Eastman, February 1967.

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Folders 1-2 EAC 4, Shearwater, February-March 1967.

Folders 3-5 SIC 18, Eastman, March-May 1967.

Folders 6-7 EAC 5, Shearwater, March 1967.

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Folders 1-2 EAC 6, Shearwater, April 1967.

Folders 3-4 Miscellaneous Cruise 8, Hall, April-May 1967.

Folders 5-6 EAC 7, Shearwater, April 1967.

Folders 7-8 EAC 11, Washington/Scripps, April-May 1967.

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Folder 1 EAC 12, Shearwater, May 1967.

Folders 2-3 Leewards, LT2086/LT2087, May-June 1967.

Folders 4-5 EAC 13, Shearwater, May-June 1967.

Folders 6-7 EAC 15, Bradley, June 1967.

Folders 8-9 EAC 14, Jordan, June-August 1967.

Folders 10-11 EAC 16, Davis, June-July 1967.

Box 140

Folders 1-2 EAC 17, Hall, July 1967.

Folders 3-4 EAC 19, Undaunted, July-September 1967.

Folders 5-6 EAC 19, Rockaway, August-September 1967.

Box 141

Folders 1-2 EAC 18, Washington, August-September 1967.

Folders 3-4 EAC 20, Hall, August 1967.

Folders 5-6 Offshore Islands, Eastern Pacific, August 1967.

Folder 7 LT 2087, August-September 1967.

Folders 8-9 EAC 21, LT 2085, August 1967.

Folders 10-11 EAC 22, Hall, August-September 1967.

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Folders 1-2 EAC 24, Hall, September 1967.

Folders 3-4 EAC 24, LT 2085, September-October 1967.

Folders 5-6 EAC 24, Hall, October 1967.

Folders 7-8 EAC 26, Jordan, October-December 1967.

Folders 9-10 EAC 26, Hall, October-November 1967.

Folders 11-12 EAC 26, Hall, November 1967.

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Folders 1-2 EAC 33, Rexburg, December 1967.

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Folders 5-6 Miscellaneous Cruise 9, Cromwell, February 1968.

Folders 7-8 EAC 35, Washington, February-April 1968.

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Folders 1-2 EAC 36, Jordan, February-April 1968.

Folders 3-4 EAC 38-40, Sioux City, March-May 1968.

Folders 5-6 SIC 19/NGS 38, Planetree, June-July 1968.

Folders 7-8 SIC 19/NGS 38, Pribilof, June-July 1968.

Folders 9-10 SIC 19/NGS 38, Hall, July-October 1968.

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Folder 1 EAC 43-47, Aidarita, August-December 1968.

Folders 2-3 SIC 20, Agassiz, October-November 1968.

Folders 4-5 EAC 48-51 and unknown, Aranca/Espuma, January-April, June, August 1969.

Charts and Maps

Oversize

NGS 1-NGS 15, NGS 17-NGS 24; SIC 9.

NGS 25-NGS 36; SIC 10-SIC 16; Leewards 13; EAC 1.

SIC 17-SIC 18; Miscellaneous Cruise 8; EAC 11, EAC 32.

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Series 25: AT-SEA DATA (NON-POBSP), 1949-1970.

This series contains data that were collected on cruises that did not have POBSP observers, but that were forwarded to the project for its files.

Box 145

Folders 6-7 Aireymouse, January-April 1968.

Folder 8 Scripps Institution of Oceanography, black-footed albatross data, general.

Folders 9-11 Scripps Institution of Oceanography, black-footed albatross data, 1949-1952.

Box 146

Folders 1-7 Scripps Institution of Oceanography, black-footed albatross data, 1953-1959.

Box 147

Folders 1-2 United States Coast Guard cruises to Ocean Station, November, March-September 1969.

Folders 3-4 United States Coast Guard cruises to Ocean Station, November, September 1969-March 1970.

Folders 5-6 United States Coast Guard cruise to Ocean Station Polar Profile, August-September 1969.

Folders 7-8 United States Coast Guard cruises to Ocean Station Victor, February-March 1966, February-March 1967.

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Folders 1-6 United States Coast Guard cruises to Ocean Station Victor, April-October 1969, August 1969 to February 1970, January-May 1970.

Box 149

Folder 1 United States Coast Guard cruise to Ocean Station Victor, January-May 1970.

Folder 2 United States Fish and Wildlife Service cruises, 1956-1964.

Folders 3-4 University of Washington cruise data, 1955-1969.

Folders 5-6 Thompson cruises, 1968-1969

Folders 7-8 University of Washington, Brown Bear cruises, 1955-1957.
Coding sheets.

Box 150

Folders 1-3 University of Washington, Brown Bear cruises, 1958, 1960-1965.
Coding sheets.

Folder 4 University of Washington, Oceaneer cruises, 1966. Coding sheets.

Folder 5 University of Washington, Oshawa cruise, 1964. Coding sheets.

Folder 6 University of Washington, Paragon cruise, 1956. Coding sheets.

Folders 7-10 University of Washington, Thompson cruises, 1966-1969.
Coding sheets.

Folder 11 Unidentified cruise, 1956.

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Series 26: AT-SEA OBSERVATION CHECKLISTS, 1963-1967.

This series contains checklists for birds observed on POBSP cruises.

Box 151

Folders 1-14 Southern Island Cruises 1-10, 14-17, 1963-1967.

Folders 15-40 Northern Grid Surveys 1-26, 1963-1965.

Folders 41-47 Bureau of Commercial Fisheries cruises, March-October 1964.

Box 152

Folders 1-8 Bureau of Commercial Fisheries cruises, November 1964-July 1965.

Folders 9-10 Leeward Islands, 1964-1965.

Folder 11 Hawaiian Islands area, August 1964.

Folder 12 Hawaii to Line Islands, 1964.

Folder 13 Hawaiian Islands area, November 1964.

Folder 14 Midway to Pearl and Hermes Reef, 1964.

Folders 15-17 Northern Pacific, 1964-1965.

Folder 18 Gilbert-Marshalls trip, 1964.

Folder 19 Oahu to Honolulu, 1965.

Folder 20 Unidentified.

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Series 27: AT-SEA DISTRIBUTION AND ABUNDANCE CHARTS.

This series contains charts showing the distribution and abundance of birds, by species, observed on POBSP cruises, February 1963 to August 1965.

Box 152

Folder 21 Total birds.

Folder 22 *Arenaria interpres* (Ruddy turnstone) and *Pluvialis dominica* (Golden plover).

Folder 23 *Bulweria bulwerii* (Bulwer's petrel).

Folder 24 *Diomedea nigripes* (Black-footed albatross) and *Diomedea immutabilis* (Laysan albatross).

Folder 25 *Frigata minor* (Great frigatebird).

Folder 26 *Gygis alba* (Fairy tern).

Folder 27 Mottled petrel.

Folder 28 *Oceanodroma leucorhoa* and *Oceanodroma castro* (White-rumped storm petrel).

Folder 29 *Phaethon lepturus* (White-tailed tropicbird).

Folder 30 *Phaethon rubricauda* (Red-tailed tropicbird).

Folder 31 *Pterodroma*.

Folder 32 *Puffinus griseus* (Sooty shearwater) and *Puffinus tenuirostris* (slender-billed shearwater).

Folder 33 *Puffinus pacificus* (Wedge-tailed shearwater).

Folder 34 *Sterna fuscata* (Sooty tern).

Folder 35 *Sula dactylatra* (Blue-faced booby).

Folder 36 *Sula leucogaster* (Brown booby).

Folder 37 *Sula sula* (Red-footed booby).

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Series 28: AT-SEA RECORD BOOKS, 1963-1964, AND UNDATED.

Box 153

Folder 1 Instructions for maintaining at-sea daily log.

Folder 2 Sooty tern sightings, 1963-1964.

Folder 3 Wedge-tailed shearwater sightings, 1963-1964.

Folder 4 Nocturnal bird sightings, undated.

Folder 5 Mammal record, undated.

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Series 29: SOUTHERN ISLAND CRUISE REPORTS, 1963-1968.

This series contains preliminary reports on POBSP trips to Pacific islands in area bounded by 10 degrees N and 10 degrees S latitude and 150 degrees E and 180 degrees W longitude. There are three separate island groups in this area: Howland-Baker, the Line Islands, and the Phoenix Islands. When separate island reports were made, they were generally filed with island reports rather than cruise reports. The first six Southern Island cruises (SIC) were called ATF trips.

Box 154

Folder 1 General.

Folder 2 Summary of time spent on islands.

Folder 3 ATF Trip 1, February-March 1963. (Also Leeward Islands Cruise 1).

Folder 4 ATF Trip 2, June-July 1963. Includes progress reports.

Folder 5 ATF Trip 3, October-November 1963. Includes progress reports.

Folder 6 ATF Trip 4, February-April 1964. Includes progress reports.

Folder 7 ATF Trip 5, June-July 1964. Includes progress reports.

Folder 8 ATF Trip 6, October-December 1964. Includes progress reports.

Folder 9 Southern Island Cruise (SIC) 7, January-March 1965. Includes progress reports.

Folder 10 SIC 8, May-July 1965.

Folder 11 SIC 9, September-November 1965. (Also Southern Grid Surveys 1 and 2).

Folder 12 SIC 10, November-December 1965. (Also Southern Grid Survey 3).

Folder 13 SIC 11, January-March 1966. (Also Northern Grid Survey 27 and Southern Grid Surveys 4 and 5).

Folder 14 SIC 12, February-April 1966. (Also Northern Grid Surveys 28 and 29).

Folder 15 SIC 13, March-May 1966. (Also Northern Grid Survey 30 and Southern Grid Survey 6).

Folder 16 SIC 14, July-August 1966. (Also Southern Grid Surveys 8 and 9).

Folder 17 SIC 15, September-October 1966. (Also Northern Grid Surveys 31 and 32 A, and Southern Grid Surveys 10 and 11).

Folder 18 SIC 16, November-December 1966. (Also Northern Grid Survey 33 and Southern Grid Surveys 12 and 13).

Folder 19 SIC 17, January-March 1967. (Also Southern Grid Surveys 14 and 15).

Folder 20 SIC 18, March-May 1967. (Also Southern Grid Survey 16).

Folder 21 SIC 19, June-July 1967. (Also Northern Grid Survey 38 and Southern Grid Survey 17).

Folder 22 SIC 20, October-November 1968.

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Series 30: SOUTHERN ISLAND CRUISE FIELD NOTES, 1963-1966.

This series contains photocopies of field notes and journals kept by POBSP personnel while on Southern Island Cruises 1-12.

Box 155

Folders 1-4 ATF (SIC) 1, February-March 1963. A. Binion Amerson, Jr., Robert W. McFarlane, Fred C. Sibley, William O. Wirtz, II.

Folders 5-6 ATF (SIC) 2, June-July 1963. Amerson, Sibley.

Folders 7-10 ATF (SIC) 3, October-November 1963. David A. Bratley, Roger B. Clapp, Lawrence N. Huber, Sibley.

Folders 11-15 ATF (SIC) 4, February-April 1964. Clapp, C. Douglas Hackman, Huber, R. R. Jillson, Sibley.

Folders 16-22 ATF (SIC) 5, June-July 1964. Douglas E. Gill, Hackman, Huber, Charles R. Long, Peter Marshall, Sibley.

Box 156

Folders 1-6 SIC 6, October-December 1964. Alan H. Anderson, Jr., C. Douglas Hackman, Charles R. Long, Richard W. Merrill, Fred C. Sibley.

Folders 7-12 SIC 7, January-March 1965. Hackman, Lawrence N. Huber, Ralph D. Kirkpatrick, Merrill, Max C. Thompson, Paul W. Woodward.

Folders 13-14 SIC 8, May-July 1965. Robert R. Fleet, Huber.

Box 157

Folders 1-3 SIC 8 (cont'd). Fred C. Sibley, Dennis L. Stadel, Robert S. Standen.

Folders 4-11 SIC 9, September-November 1965. Richard S. Crossin, Robert R. Fleet, Brian A. Harrington, Dayle N. Husted, Cameron B. Kepler, Warren B. King, Richard L. Maze, Paul W. Woodward.

Folder 12 SIC 10, November-December 1965. Maze.

Folders 13-14 SIC 11, January-March 1966. Crossin, Philip C. Shelton.

Folder 15 SIC 12, February-April 1966. Maze.

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Series 31: SOUTHERN GRID SURVEY REPORTS, 1965-1968.

The Southern Grid (originally Smithsonian Grid II) was established in 1965 and included the area within 100 miles of Howland and Baker Islands. All except one of the Southern Grid Surveys were made in conjunction with Southern Island Cruises. This series contains preliminary and summary reports on the surveys. Other reports on the cruises can be found in the Southern Island Cruise Reports or Island Reports.

Box 158

Folder 1 "Occurrence of Birds in the Southern Grid (September 1965-March 1966)."

Folder 2 "Nocturnal Observations in the Smithsonian Grid Number II (September 1965-March 1966)."

Folder 3 "Some Comments on Grid Survey Work (Particularly Southern Grid)," Richard D. Chandler, 1967.

Folder 4 Southern Grid report, 1967.

Folder 5 Southern Grid Survey 1, September 1965 (in conjunction with Southern Island Cruise 9).

Folder 6 Southern Grid Survey 2, October 1965 (in conjunction with Southern Island Cruise 9).

Folder 7 Southern Grid Survey 3, November-December 1965 (in conjunction with Southern Island Cruise 10).

Folder 8 Southern Grid Survey 4, February 1966 (in conjunction with Southern Island Cruise 11).

Folder 9 Southern Grid Survey 5, February-March 1966 (in conjunction with Southern Island Cruise 11).

Folder 10 Southern Grid Survey 6, April 1966 (in conjunction with Southern Island Cruise 13).

Folder 11 Southern Grid Survey 7, May 1966.

Folder 12 Southern Grid Survey 8, July 1966 (in conjunction with Southern Island Cruise 14).

Folder 13 Southern Grid Survey 9, August 1966 (in conjunction with Southern Island Cruise 14).

Folder 14 Southern Grid Survey 10, September 1966 (in conjunction with Southern Island Cruise 15).

Folder 15 Southern Grid Survey 11, October 1966 (in conjunction with Southern Island Cruise 15).

Folder 16 Southern Grid Survey 12, November 1966 (in conjunction with Southern Island Cruise 16).

Folder 17 Southern Grid Survey 13, December 1966 (in conjunction with Southern Island Cruise 16).

Folder 18 Southern Grid Survey 14, January 1967 (in conjunction with Southern Island Cruise 17).

Folder 19 Southern Grid Survey 15, February 1967 (in conjunction with Southern Island Cruise 17).

Folder 20 Southern Grid Survey 16, April 1967 (in conjunction with Southern Island Cruise 18).

Folder 21 Southern Grid Survey 17, July 1968 (in conjunction with Southern Island Cruise 19).

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Series 32: NORTHERN GRID SURVEY REPORTS, 1963-1968.

The Northern Grid (Smithsonian Grid I) was established in 1963. It consisted of 50,000 square miles of ocean approximately 50 miles southwest of Johnston Atoll. This series contains preliminary and summary reports of Northern Grid Surveys. When a survey was made in conjunction with another cruise, that information is noted below.

Box 158

Folder 22 Northern Grid Cruises, list.

Folder 23 "Requirements for Ecology Survey," circa 1963.

Folder 24 "Occurrence of Birds at Sea in the Central Pacific, Second Report, January 1, 1964-August 31, 1964."

Folder 25 "Occurrence of Birds at Sea in the Central Pacific, September-October 1964."

Folder 26 "Occurrence of Birds in the Smithsonian Grid (November 1, 1964-April 30, 1965)."

Folder 27 "Smithsonian Grid Number I (May 1965-December 1965)."

Folder 28 "Nocturnal Observations in the North Central Pacific, December 1965-February 1966."

Folder 29 Northern Grid Report, 1967.

Folder 30 Northern Grid, summary of data.

Box 159

Folders 1-23 Northern Grid Surveys 1-4, 6-26, 1964-1965.

Folder 24 Northern Grid Survey 27, January-February 1966 (in conjunction with Southern Island Cruise 11).

Folder 25 Northern Grid Surveys 28-29, March-April 1966 (in conjunction with Southern Island Cruise 12).

Folder 26 Northern Grid Survey 30, April 1966 (in conjunction with Southern Island Cruise 13).

Folder 27 Northern Grid Survey 31, September 1966 (in conjunction with Southern Island Cruise 15).

Folder 28 Northern Grid Survey 32, October 1966.

Folder 29 Northern Grid Survey 32 A, October 1966 (in conjunction with Southern Island Cruise 15).

Folder 30 Northern Grid Survey 33, November 1966 (in conjunction with Southern Island Cruise 16).

Folders 31-34 Northern Grid Surveys 34-37, 1966-1967.

Folder 35 Northern Grid Survey 38, July 1968 (in conjunction with Southern Island Cruise 19).

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Series 33: EASTERN AREA CRUISE REPORTS, 1966-1968.

This series contains preliminary and summary reports on POBSP trips in the eastern Pacific near the coasts of California and Mexico. Some of the trips were made by POBSP personnel aboard cruises of the EASTROPAC program sponsored by the U.S. Bureau of Commercial Fisheries to study the oceanographic environment of pelagic tuna resources. Reports for cruises 43-51 in the Gulf of Panama are missing or were never made.

Box 160

Folder 1 Eastern Area Cruise (EAC) 1, December 1966.

Folder 2 EAC 2, January 1967 (also Eastern Grid Survey 1).

Folder 3 EAC 3, February 1967 (also Eastern Grid Survey 2).

Folder 4 EAC 4, February-March 1967 (also Eastern Grid Survey 3).

Folder 5 EAC 5, March 1967 (also Eastern Grid Survey 4).

Folder 6 EAC 6, April 1967 (also Eastern Grid Survey 5).

Folder 7 EAC 7, April 1967 (also Eastern Grid Survey 6).

Folders 8-10 EAC 8-10, January-March 1967 (in conjunction with EASTROPAC).

Folder 11 EAC 11, April-May 1967. Includes report on Guadalupe Island work.

Folder 12 EAC 12, May 1967 (also Eastern Grid Survey 7).

Folder 13 EAC 13, May-June 1967 (also Eastern Grid Survey 8).

Folder 14 EAC 14, June-August 1967 (in conjunction with EASTROPAC).

Folder 15 EAC 15, June 1967.

Folder 16 EAC 16, June-July 1967 (also Eastern Grid Survey 9).

Folder 17 EAC 17, July 1967 (also Eastern Grid Survey 10).

Folders 18-19 EAC 18-19, August-September 1967 (in conjunction with EASTROPAC).

Folder 20 EAC 20, August 1967 (also Eastern Grid Survey 11).

Folder 21 EAC 21, August 1967. Includes report on work on San Clemente, Santa Barbara, and Santa Catalina Islands.

Folder 22 EAC 22, August-September 1967 (also Eastern Grid Survey 12). Includes report on work on Santa Cruz Island.

Folder 23 EAC 23, August-September 1967. Includes report on work on Santa Cruz and Santa Rosa Islands.

Folder 24 EAC 24, September 1967 (also Eastern Grid Survey 13).

Folder 25 EAC 25, September-October 1967 (also Eastern Grid Survey 14).

Folder 26 EAC 26, October-December 1967 (in conjunction with EASTROPAC).

Folder 27 EAC 27, October 1967 (also Eastern Grid Survey 15).

Folder 28 EAC 28, October 1967. Includes report on Guadalupe Island work.

Folder 29 EAC 29, October-November 1967 (also Eastern Grid Survey 16).

Folder 30 EAC 30, October-November 1967. Includes report on work on Coronados and San Miguel.

Folder 31 EAC 31, November 1967 (also Eastern Grid Survey 17).

Folder 32 EAC 32, December 1967 (also Eastern Grid Survey 18).

Folder 33 EAC 33, December 1967 (also Eastern Grid Survey 19).

Box 161

Folder 1 EAC 34, January 1968 (also Eastern Grid Survey 20).

Folders 2-3 EAC 35-36, February-April 1968 (in conjunction with EASTROPAC).

Folder 4 EAC 37, February-March 1968. Includes report of work on San Miguel and San Nicolas.

Folder 5 EAC 38, March 1968 (also Eastern Grid Survey 21).

Folder 6 EAC 39, April 1968 (also Eastern Grid Survey 21). Includes reports on work on Santa Barbara, San Nicolas, Anacapa, Santa Cruz, Santa Rosa, and San Miguel.

Folder 7 EAC 40, April 1968. Includes reports on work on Guadalupe, Cedros, Natividad, San Benitos, and Coronados.

Folder 8 EAC 41, May 1968. Includes report on work on Catalina, Santa Barbara, Anacapa, and San Miguel.

Folder 9 EAC 42, June-July 1968. Includes reports on work on Guadalupe, Cedros, Natividad, San Benitos, and Coronados.

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Series 34: EASTERN GRID SURVEY REPORTS, 1967-1968.

The Eastern Grid was established in early 1967 off the coast of southern California. All grid surveys were made in conjunction with Eastern Area cruises. This series contains preliminary and summary reports, notes, calculations, and graphs concerning the Eastern Grid Surveys. A report for Survey 21 can be found with Eastern Area Cruise report 38.

Box 161

Folder 10 "Eastern Grid Surveys, January-April 1967."

Folder 11 Eastern Grid Survey (EGS) 1, January 1967 (in conjunction with Eastern Area Cruise 2).

Folder 12 EGS 2, February 1967 (in conjunction with Eastern Area Cruise 3).

Folder 13 EGS 3, February-March 1967 (in conjunction with Eastern Area Cruise 4).

Folder 14 EGS 4, March 1967 (in conjunction with Eastern Area Cruise 5).

Folder 15 EGS 5, April 1967 (in conjunction with Eastern Area Cruise 6).

Folder 16 EGS 6, April 1967 (in conjunction with Eastern Area Cruise 7).

Folder 17 EGS 7, May 1967 (in conjunction with Eastern Area Cruise 12).

Folder 18 EGS 8, May-June 1967 (in conjunction with Eastern Area Cruise 13).

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Folder 1 EGS 9, June-July 1967 (in conjunction with Eastern Area Cruise 16).

Folder 2 EGS 10, July 1967 (in conjunction with Eastern Area Cruise 17).

Folder 3 EGS 11, August 1967 (in conjunction with Eastern Area Cruise 20).

Folder 4 EGS 12, August-September 1967 (in conjunction with Eastern Area Cruise 22).

Folder 5 EGS 13, September 1967 (in conjunction with Eastern Area Cruise 24).

Folder 6 EGS 14, September-October 1967 (in conjunction with Eastern Area Cruise 25).

Folder 7 EGS 15, October 1967 (in conjunction with Eastern Area Cruise 27).

Folder 8 EGS 16, October-November 1967 (in conjunction with Eastern Area Cruise 29).

Folder 9 EGS 17, November 1967 (in conjunction with Eastern Area Cruise 31).

Folder 10 EGS 18, December 1967 (in conjunction with Eastern Area Cruise 32).

Folder 11 EGS 19, December 1967 (in conjunction with Eastern Area Cruise 33).

Folder 12 EGS 20, January 1968 (in conjunction with Eastern Area Cruise 34).

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Series 35: EASTERN PACIFIC OFFSHORE ISLANDS REPORTS, 1967-1968.

From July 1967 to June 1968, POBSP personnel visited a number of islands off the coasts of California and Mexico. This series contains preliminary reports on those visits. For other reports on these islands (Guadalupe, San Clemente, San Nicolas, Santa Barbara, Santa Catalina, Santa Cruz, Santa Rosa, the Coronados, San Miguel, Anacapa, Cedros, Natividad, and San Benitos) see Eastern Area Cruise reports 11, 21-23, 28, 30, 37, and 39-42.

Box 162

Folder 13 San Clemente Island survey report, July 1967.

Folder 14 San Nicolas Island survey report, July 1967.

Folder 15 San Miguel and adjacent islands report, June 1968.

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Series 36: TOWNSEND CROMWELL CRUISE REPORTS, 1964-1965.

The POBSP had observers on cruises of the U.S. Bureau of Commercial Fisheries (BCF) ship *Townsend Cromwell*, which covered a grid east of the Hawaiian Islands to determine variations in structure of the water masses and currents of the area. This series contains preliminary and summary reports on those cruises.

Box 162

Folder 16 "Suggestions for BCF Cruises."

Folder 17 BCF Cruises, species account, 1966.

Folder 18 BCF report, original graphs.

Box 163

Folders 1-5 BCF Townsend Cromwell cruise reports, March 1964-June 1965.

Folder 6 Computer printouts.

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Series 37: LEEWARD ISLANDS SURVEY REPORTS, 1963-1967.

This series contains reports of cruises to the Leeward Hawaiian Islands by the POBSP. Island accounts for the cruises can be found in the series of island reports.

Box 163

Folder 7 Leewards Survey 1, February-March 1963.

Folder 8 Leewards Survey 2 (?), June 1963.

Folder 9 Leewards Survey 3, March 1964.

Folder 10 Leewards Survey 5, September 1964.

Folder 11 Leewards Survey 6, September 1964.

Folder 12 Leewards Survey 7, March 1965.

Folder 13 Leewards Survey 8, March 1965.

Folder 14 Leewards Survey 9, July 1965.

Folder 15 Leewards Survey 11, August 1965.

Folder 16 Leewards Survey 13, June 1966.

Folder 17 Leewards Survey 17, October 1966.

Folder 18 Leewards Survey 18, March 1967.

Folder 19 Leewards Survey 19 (?), May-June 1967.

Folder 20 Leewards Survey 21, August-September 1967.

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Series 38: ISLAND REPORTS, CIRCA 1954-1970, 1973.

This series chiefly contains reports made by POBSP personnel on islands visited by the project. Some reports by nonproject persons are also included.

Box 164

Folders 1-3 Alaska, 1964-1967. See also Aleutians.

Folders 4-7 Aleutian Islands, 1954, 1956-1957, 1961-1962.

Folders 8-13 Baker Island, 1963-1968.

Folder 14 Birnie Island, 1964-1966.

Folder 15 Canton Island, 1965.

Folder 16 Caroline Island, 1965.

Folder 17 Channel Islands, 1968.

Folders 18-20 Christmas Island, 1958-1959, 1964-1965.

Box 165

Folders 1-2 Christmas Island, 1966-1968.

Folder 3 Enderbury Island, 1963-1968.

Folder 4 Eniwetok Atoll, 1968-1969. See also Marshall and Gilbert Islands.

Folder 5 Fanning Island, 1965, 1967.

Folders 6-10 French Frigate Shoals, 1963-1969. See also Leeward Hawaiian Islands.

Folder 11 Galapagos Islands, 1969.

Folder 12 Gardner Island, 1964, 1966.

Folder 13 Gardner Pinnacles, 1964, 1967. See also Leeward Hawaiian Islands.

Folder 14 Hawaiian Islands, 1964-1965. See also Leeward Hawaiian Islands and specific islands.

Folders 15-18 Howland Island, 1963-1968.

Folder 19 Hull Island, 1965-1967.

Box 166

Folder 1 Jarvis Island, 1964-1968.

Folder 2 Kaohikaipu, 1964, 1966, 1968. See also Oahu.

Folder 3 Kapapa/Kekepa Islands, 1968. See also Oahu.

Folders 4-8 Kauai, 1964-1968.

Folder 9 Kingman Reef, 1967.

Folders 10-16 Kure Atoll, 1963-1969 and undated.

Box 167

Folders 1-5 Laysan Island, 1959, 1961, 1963-1968. See also Leeward Hawaiian Islands.

Folders 6-12 Leeward Hawaiian Islands, 1961-1969. See also specific islands.

Folder 13 Lehua Rock, 1965.

Folders 14-16 Lisianski Island, 1964, 1966-1968. See also Leeward Hawaiian Islands.

Folders 17-19 McKean Island, 1964-1966, 1968.

Box 168

Folder 1 Malden Island, 1965, 1967-1968.

Folders 2-3 Manana/Mokolii Islands, 1964-1965, 1967-1968. See also Oahu.

Folders 4-10 Marshall and Gilbert Islands, 1964-1969. See also Eniwetok Atoll.

Folder 11 Maui, 1964-1965.

Folders 12-16 Midway Islands, 1963-1969. See also Leeward Hawaiian Islands.

Folders 17-19 Mokapu Point, Oahu, 1964-1969. See also Oahu.

Folder 20 Mokuauia Island, 1964, 1967-1968. See also Oahu.

Folder 21 Mokolua Island, 1967. See also Oahu.

Folder 22 Moku Manu Island, 1964, 1967, 1969. See also Oahu.

Folder 23 Molokai, 1965.

Box 169

Folder 1 Necker Island, 1964-1965. See also Leeward Hawaiian Islands.

Folder 2 Nihoa, 1966, 1968. See also Leeward Hawaiian Islands.

Folders 3-5 Oahu, 1963-1969. See also specific islands offshore of Oahu.

Folder 6 Palmyra Island, 1965-1967.

Folders 7-9 Panama, 1967-1969.

Folders 10-12 Pearl and Hermes Reef, 1965-1969. See also Leeward Hawaiian Islands.

Folder 13 Phoenix Island, 1964-1967.

Folder 14 Popoia Island, 1964-1965, 1967-1968. See also Oahu.

Folder 15 Rose Atoll, 1970.

Folders 16-18 Sand Island, Johnston Atoll, progress reports, 1963-1965.

Box 170

Folders 1-5 Sand Island, Johnston Atoll, progress reports, 1966-1969.

Folders 6-9 Sand Island, Johnston Atoll, survey reports, 1964.

Box 171

Folders 1-2 Sand Island, Johnston Atoll, ecological reports, 1965, 1973.

Folder 3 Starbuck Island, 1965, 1967-1968.

Folder 4 Swains Island, 1966.

Folder 5 Sydney Island, 1964, 1968.

Folder 6 Tokelau Islands, 1965.

Folder 7 Tongareva Atoll, 1965.

Folder 8 Vostok Island, 1965.

Folders 9-11 Wake Island, 1963-1966, 1968-1970.

Folder 12 Washington Island, 1964, 1967.

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Series 39: ISLAND FILES, circa 1963-1970.

This series contains charts, tables, notes, manuscript drafts, historical notes, compilations of data, and occasional correspondence apparently gathered or generated in preparation for writing final island reports.

Box 172

Folder 1 Baker Island. Historical notes.

Folder 2 Birnie Island. Draft of species account, reptile section, and table listing POBSP trips.

Folder 3 Caroline Atoll. Manuscript material, undated, listing islands of the atoll and comments about them, and a map.

Folder 4 Central Pacific. Historical notes.

Folder 5 Channel Islands. Specimen notes.

Folder 6 Christmas Islands. Photocopy of 1967 specimen catalog; draft of table listing POBSP trips; and correspondence, 1968-1969.

Folders 7-18 Enderbury Island. Banding, recovery, and return data; annotated list of birds; drafts of species accounts and tables; draft and data on climate; notes on fishes, insects, and mammals; historical notes; maps; and specimen data.

Folder 19 Eniwetok Atoll. Map.

Folder 20 Fanning Atoll. Table listing POBSP trips.

Folder 21 French Frigate Shoals. Draft of captions for figures to appear in report. See also Leeward Hawaiian Islands.

Folders 22-25 Gardner Islands. Draft of report, notes and photocopies used in writing report, and notes on specimens collected.

Folder 26 Gardner Pinnacles. Excerpts from notes of Alexander Wetmore.

Folders 27-28 Howland Island. Data on breeding populations and historical notes.

Folder 29 Hull Island. Partial draft of report, including species accounts, bird population estimates, and insects recorded.

Box 173

Folder 1 Jarvis Island. Historical notes, draft of history section of report, and draft of species account.

Folders 2-17 Laysan Island. Manuscript of "The Natural History of Laysan Island, Northwestern Hawaiian Islands," by Charles A. Ely and Roger B. Clapp; rough draft and notes; bird banding, ecology, movement, breeding, and specimen data; historical notes; data on insects and ectoparasites; photocopies of field notes; checklists; seal band data; and correspondence. See also Leeward Hawaiian Islands.

Box 174

Folders 1-4 Leeward Hawaiian Islands. Draft of climate section of report; bird data; and photocopies of field notes from Leewards Surveys 3 and 7. See also specific islands.

Folders 5-20 Lisianski Island. Bird banding and movement data; photocopies of field notes from Leewards Surveys 1, 4, 5, 7, 13, and 17; historical notes and draft of history section; data on mammals, seals, and vegetation; and maps. See also Leeward Hawaiian Islands.

Folder 21 McKean Island. Bird data and draft of table listing POBSP trips.

Folder 22 Malden Island. Table listing POBSP trips.

Folder 23 Marshall Islands. List of atoll and island names.

Folder 24 Mokapu Point, Oahu. Bird specimen data.

Box 175

Folder 1 Necker Island. Draft of species accounts, bibliography, and specimen data. See also Leeward Hawaiian Islands.

Folder 2 Nihoa Island. Historical material, bird data; correspondence; table listing POBSP trips; and specimen data. See also Leeward Hawaiian Islands.

Folder 3 Oahu Offshore Islands. Photocopies of field notes, 1964-1965.

Folder 4 Palmyra Island. Partial draft of report including species accounts and insects recorded.

Folder 5 Pearl and Hermes Reef. Drafts of tables giving bird data; correspondence; specimen data. See also Leeward Hawaiian Islands.

Folder 6 Phoenix Island. Table listing POBSP trips.

Folder 7 Starbuck Island. Table listing POBSP trips and data on sooty tern molt.

Folder 8 Sydney Island. Table listing POBSP trips and draft of species account.

Folders 9-10 Vostok Island. Bird notes and data; correspondence; drafts of "A Biological Survey of Vostok Island, South-Central Pacific," by Roger B. Clapp and Fred C. Sibley.

Folder 11 Washington Island. Table listing POBSP trips and draft of species accounts.

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Series 40: KURE ATOLL FILES, 1963-1970, WITH DATA FROM 1951.

This series contains notes, reports, studies, and data documenting the POBSP's work on Kure Atoll, probably assembled for writing reports. In addition to project files, some of the data were collected from non-POBSP sources and date back to 1951. The series is divided into growth and development studies, breeding and reproductive cycle studies, nesting studies, banding histories, recovery schedules, life history and other bird studies, field notes, reports and studies, weather data, mammals, specimen data, and miscellaneous.

Box 176

Growth and Development Studies

Folders 1-2 Black-footed albatross, 1963-1964.

Folder 3 Black-footed albatross and Laysan albatross, 1964-1965.

Folders 4-5 Blue-faced booby, 1964.

Folder 6 Brown booby, 1965.

Box 177

Folder 1 Common noddy, 1964.

Folder 2 Gray-backed tern, 1968.

Folders 3-4 Laysan albatross, 1963-1964. See also Box 176, Folder 3, above.

Folder 5 Noddy tern, 1964-1965.

Folder 6 Red-tailed tropicbird, 1964.

Box 178

Breeding and Reproductive Cycle Studies

Folder 1 Albatross breeding biology, 1964-1967.

Folders 2-5 Blue-faced booby, 1964-1965.

Box 179

Folders 1-2 Blue-faced booby, 1965.

Folder 3 Bonin Island petrel, banding and biology study, 1964.

Folders 4-5 Brown booby, 1964.

Folder 6 Wedge-tailed shearwater, 1964.

Nesting Studies

Folder 7 Albatross nest check, 1969.

Folder 8 Black-footed albatross, 1963-1964.

Folder 9 Brown noddy, 1964-1968.

Folder 10 Christmas Island shearwater, 1959-1969. Also includes recovery schedules.

Box 180

Folder 1 Common noddy and brown noddy, 1963-1968.

Folder 2 Gray-backed tern, 1963-1968.

Folder 3 Great frigatebird, 1963-1969. Includes banding study material.

Folders 4-5 Laysan albatross, 1963-1969.

Folders 6-7 Red-tailed tropicbird, 1964-1969.

Folder 8 Sooty tern, 1964-1969.

Folder 9 Wedge-tailed shearwater, 1964-1967. Also includes recovery schedules.

Folder 10 White tern, 1964-1969.

Folder 11 Bird populations, circa 1964, 1969.

Folder 12 "Breeding cycle of the Red-tailed Tropicbird (*Phaethon rubricauda*) on Green Island, Kure Atoll, Hawaiian Islands, with Emphasis on Nesting Success," by Robert R. Fleet, undated.

Box 181

Folder 1 Egg hatching record, 1966.

Folder 2 Miscellaneous birds, 1963-1969. Includes some banding studies.

Folder 3 Population dynamics and breeding phenology, 1963-1964.

Folder 4 Sera catalog, 1968-1969.

Folder 5 Table of annual bird population based on biweekly statistics, 1963-1966.

Banding Histories

Folders 6-7 Black-footed albatross, 1951-1969.

Folder 8 Blue-faced booby, 1969.

Folders 9-10 Laysan albatross, 1957-1969.

Box 182

Folder 1 Laysan albatross, 1962-1969.

Folder 2 Sooty storm petrel, Laysan albatross, and black-footed albatross, 1963-1969.

Folder 3 Birds banded by Chandler S. Robbins and James Hunt, 1959-1963.

Folder 4 Banding tables, 1963-1969.

Folder 5 Recoveries and returns, 1965.

Folders 6-8 Banding record, 1963, 1967-1968.

Folder 9 Field summary, 1969.

Folder 10 Banding field records, 1969.

Folder 11 Banding schedules, Wake and Midway, 1964-1966.

Folder 12 Band returns, recoveries, and foreign retraps, 1965.

Box 183

Banding History-recovery schedules

Folder 1 Black-footed albatross, 1963-1964.

Folders 2-3 Blue-faced booby, 1963-1966.

Folder 4 Bonin Island petrel, 1963-1969.

Folder 5 Brown booby, 1966.

Folder 6 Brown noddy, 1963-1967.

Folder 7 Christmas Island shearwater, red-footed booby, and great frigatebird, 1964-1966.

Folders 8-9 Great frigatebird, 1957-1969. See also Folder 7, above.

Folder 10 Hawaiian noddy tern, 1966.

Folders 11-12 Laysan albatross, 1963-1966.

Folder 13 Noddy tern, 1966.

Folder 14 Red-footed booby, 1963-1969. See also Folder 7, above.

Folders 15-16 Red-tailed tropicbird, 1965-1969.

Box 184

Folder 1 Sooty tern, 1966.

Folders 2-3 Wedge-tailed shearwater, 1964-1966.

Folder 4 Birds returned, 1969.

Location and Movement Studies

Folder 5 Blue-faced booby, 1965.

Folder 6 Interisland movements to Green Island from Midway Atoll by non-POBSP banded birds, circa 1951-1969.

Folder 7 Interisland bird movements, final table, 1963-1968.

Folder 8 Migrant and movement data, 1963-1964.

Folder 9 Movements from Kure, 1963-1968.

Folder 10 Movements to Kure, 1963-1969.

Folder 11 Midway bird location maps, 1969.

Life History and Other Bird Studies

Folder 12 Accidental terns, 1967-1968.

Folder 13 Black noddy, 1963-1968.

Folder 14 Blue-faced booby behavior study, 1964-1965.

Folder 15 Bonin Island petrel, circa 1969.

Folder 16 Brown noddy, 1963-1969.

Folder 17 Dark-rumped petrel, 1964-1968.

Folder 18 Gulls, 1963-1967.

Folder 19 Laysan albatross, 1963-1965.

Box 185

Folder 1 Red-footed booby and frigate study-discontinued, 1964.

Folder 2 Red-footed booby plumage, circa 1966.

Folders 3-4 Shorebirds, 1964-1967.

Folder 5 Solander petrel, circa 1966.

Folders 6-8 Sooty tern, 1964-1968.

Folder 9 Special flock data notes by Patrick J. Gould, 1964.

Folders 10-11 Bird notes, William O. Wirtz II, 1965.

Box 186

Field Notes

Folder 1 Hawaiian and Leeward Islands, William O. Wirtz II, 1964.

Folder 2 Howland and Baker Islands, Wirtz, March 1963.

Folders 3-4 Kure, Wirtz, 1963-1964.

Folder 5 Kure, Robert L. Brownell, Jr., and unidentified, 1968.

Folder 6 Leewards Survey 7, Wirtz, 1965.

Reports and Studies

Folder 7 Spring report, 1966. Draft.

Folder 8 Preliminary report, May-August 1968. Draft.

Folder 9 MAC Report, 1968. Draft.

Box 187

Folders 1-3 1970 report. Draft.

Folder 4 Comments on 1970 draft.

Folders 5-7 Avifauna report, undated.

Box 188

Folder 1 "Botanical Observations on Leeward Hawaiian Atolls," by Charles H. Lamoureux, undated.

Folder 2 Kure - Man, Plants, Land, Mammals, Birds. Undated.

Folder 3 Midway Atoll - Man, Birds, Mammals, Reptiles, Fish, Insects, Other Arthropods, Other Animal Life, Plants, Land, and Climate. By Robert R. Fleet, undated.

Folder 4 "Species excerpts from field notes of W. O. Wirtz," undated.

Folder 5 Maps.

Folders 6-8 Study plans, 1964-1965, 1967-1968.

Folders 9-10 Activity study 1, 1963-1964.

Folder 11 Activity study 2, 1964.

Box 189

Folder 1 Activity study 2, 1964.

Folder 2 Activity study 3, 1964-1965.

Folders 3-5 Operation record and schedule, 1963-1965.

Weather Data

Folders 6-7 Weather data transcribed from Coast Guard Station log, 1963-1965.

Folder 8 Barometric pressure, 1961-1968.

Box 190

Folder 1 Climatological summaries, Midway Island, 1962-1965.

Folder 2 Cloud cover, 1961-1963.

Folder 3 Rainfall, Kure and Midway, 1963-1965, 1967-1968.

Folder 4 Temperature, 1961-1968.

Folder 5 Wind force, 1961-1968.

Folder 6 Weather summary, Central Pacific, 1963-1965.

Folder 7 Microclimate studies, 1965.

Mammals

Folder 8 Mammal record, 1963.

Folder 9 Polynesian rat, 1963-1969.

Folder 10 Hawaiian monk seal, 1964-1969.

Box 191

Folders 1-2 Seal tagging data, 1963-1965.

Specimen Data

Folder 3 Specimen catalog, Kure and Midway, 1964-1965.

Folder 4 Specimens collected, circa 1963-1967.

Folder 5 Checklist, 1968-1969.

Miscellaneous

Folder 6 Notes, charts, tables, photocopies of journal entries.

Folders 7-8 Field guide, parts 2 and 3.

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Series 41: SAND ISLAND/JOHNSTON ATOLL FILES. 1963-1973, WITH DATA FROM 1961.

This series contains correspondence, banding records, reports, notes, drafts, and other material documenting the project's work on Sand Island, Johnston Atoll. The series is divided into correspondence, banding files, calculations and data sheets, reports, and miscellaneous.

Box 192

Correspondence

Folders 1-4 Correspondence, 1963-1967.

Folder 5 Telegrams, 1964.

Banding Files

Folder 6 Banding records, 1963-1973.

Folder 7 Sooty tern banding, 1963-1973.

Folder 8 Old banding returns and destroyed bands, 1963-1968.

Folder 9 Sooty tern returns, 1966.

Folder 10 Sooty tern bands destroyed, 1966-1969.

Folder 11 Seabird movements, 1964-1968.

Box 193

Folders 1-3 Recovery schedules, 1964-1965.

Calculations and Data Sheets

Folder 4 General, 1964-1969.

Folders 5-6 Sooty tern, 1963-1968.

Box 194

Reports

Folder 1 "A History of Johnston Island, 1796-1963," Lawrence Richard Bauer, 1963.

Folder 2 "The Distribution of Ciguatera in the Tropical Pacific," Albert H. Banner and Philip Helfrich, 1964.

Folder 3 "An Ecological Reconnaissance of Johnston Island and the Effects of Dredging," University of Hawaii, 1965.

Folder 4 "Johnston Atoll: High Order Horizontal Control Survey-Station Descriptions," circa 1966.

Folder 5 "A Preliminary Marine Algal Flora from Selected Habitats on Johnston Atoll," Richard G. Buggeln and Roy T. Tsuda, 1966.

Folder 6 "Records of a High Order Horizontal Control Survey at Johnston Atoll," 1967.

Folder 7 Sooty tern at-sea report, draft, undated.

Folders 8-10 Johnston Atoll report, draft, undated.

Box 195

Folders 1-3 Johnston Atoll report, draft, undated.

Miscellaneous

Folder 4 Sera catalog, 1965-1968.

Folder 5 Catalog of miscellaneous collections of animals and algae, 1967.

Folder 6 Interim catalog, 1968.

Folder 7 Lists of Johnston Atoll invertebrate zoology, 1964-1965, and undated.

Folder 8 Lists of Johnston Atoll vertebrate zoology, 1963-1969, 1973.

Folders 9-11 weather data, 1961-1969.

Folder 12 Equipment inventory, 1967.

Folder 13 Maps.

Folder 14 Photograph inquiry.

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Series 42: SPECIMEN CATALOGS, 1963-1969.

This series contains catalogs, apparently kept in the field, for bird, mammal, fish, reptile, and other specimens collected by the POBSP. They are arranged alphabetically by location or cruise.

Box 196

Folder 1 Alaska, 1965.

Folder 2 Alaska (blood), 1965.

Folders 3-6 At-sea, 1963-1966, 1968.

Folder 7 Eastern Pacific, 1967.

Box 197

Folders 1-3 Eastern Pacific, 1967-1968.

Folder 4 Eastern Area Cruise 41, 1968.

Folder 5 Eastern Area Cruise 43, 1968.

Folder 6 French Frigate Shoals, 1965.

Folder 7 Kure, Midway, 1963-1965.

Box 198

Folders 1-2 Kure, Midway, 1963, 1965.

Folder 3 Leewards, 1966.

Folder 4 Leewards Survey 13, 1966.

Folders 5-7 Marshall and Gilbert Islands, 1964.

Box 199

Folders 1-2 Marshall and Gilbert Islands, 1964.

Folder 3 Marshall and Gilbert Islands, 1965.

Folder 4 Marshall and Gilbert Islands, 1967.

Folder 5 Northern Grid, 1966-1967.

Folders 6-8 Sand Island/Johnston Atoll, 1964-1969.

Folders 9-11 Southern Island Cruises 1-3, 1963.

Box 200

Folders 1-3 Southern Island Cruises 1-8, 1963-1965.

Folders 4-5 Southern Island Cruise 9, 1965.

Folder 6 Southern Island Cruises 9, 11, 1965-1966. Lizards.

Folders 7-9 Southern Island Cruises 11, 13, 1966.

Folder 10 Southern Island Cruise 14, 1966.

Box 201

Folder 1 Southern Island Cruise 15, 1966.

Folder 2 Southern Island Cruise 16, 1966.

Folder 3 Southern Island Cruise 17, 1967.

Folders 4-5 Southern Island Cruise 18, 1967.

Folder 6 Unidentified Southern Island Cruise scale catalog.

Folder 7 Unidentified location, body parts, 1966-1969.

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Series 43: GENERAL BIRD FILES, CIRCA 1963-1971.

This series contains compilations of data, charts, drawings, notes, reports, and lists concerning various species of birds and birds in general. Much of the material appears to have been assembled for use in writing reports.

Box 202

Folder 1 Accidentals.

Folder 2 Aquatic tracking by electronic techniques, 1963-1964.

Folder 3 Atlantic Guide notes and drawings.

Folder 4 At-sea species accounts, general data.

Folder 5 Audubon's shearwater specimen data.

Folder 6 Avifauna summaries.

Folder 7 Black-footed albatross.

Folder 8 Booby specimen data.

Folder 9 Bristle-thighed curlew specimen data.

Folder 10 Brown booby food.

Folders 11-12 Charts, graphs, and tables.

Folder 13 Drawings.

Folder 14 Golden plover measurements.

Folder 15 Great frigatebird egg data.

Folders 16-17 Identification aids, species lists, manuals, circa 1963-1967.

Box 203

Folders 1-2 Identification aids, species lists, manuals.

Folder 3 Incubation and fledgling periods.

Folder 4 Lesser frigatebird.

Folder 5 Movement data.

Folder 6 Nest and population counts.

Folder 7 Notes and statistics, general.

Folder 8 Observation data for 1967 Northern Grid report.

Folder 9 Observation data, non-POBSP, 1970-1971.

Folder 10 Oceanography.

Folder 11 Pelagic non-grid report data, 1965.

Folder 12 Petrel molt data.

Folder 13 Petrel specimen data.

Folder 14 Phoenix and Line Islands, monthly summaries of bird activities to June 1964.

Folder 15 Preliminary Report on Occurrence of Birds at Sea in the Central Pacific, partial draft.

Box 204

Folder 1 Range and migration.

Folder 2 Red-tailed tropicbird.

Folder 3 Respiratory bibliography.

Folder 4 Ruddy turnstone returns.

Folder 5 Slender-billed shearwater.

Folder 6 Specimens - general.

Folder 7 Specimens - island summaries.

Folder 8 Specimens collected on Christmas Island by POBSP.

Folder 9 Specimens collected on Johnston Atoll by POBSP.

Folder 10 Specimens collected on Kure Atoll by POBSP.

Folder 11 Specimens collected on Laysan Island by POBSP.

Folder 12 Specimens collected on Lisianski Island by POBSP.

Folder 13 Specimens collected on Pearl and Hermes Reef by POBSP.

Folder 14 Specimens - Canton Island.

Folder 15 specimens - French Frigate Shoals.

Folder 16 Specimens - Laysan Island.

Folder 17 Specimens - Lisianski Island.

Folder 18 Specimens - Midway Islands.

Folder 19 Specimens - Necker Island.

Folder 20 Specimens - Pearl and Hermes Reef.

Folder 21 Specimens - birds collected at sea, 1963-1964.

Folder 22 Specimens - birds' eggs, Laysan.

Folder 23 Specimens - notes, Laysan.

Folder 24 Specimens - frozen birds at Honolulu warehouse, 1967.

Folder 25 Specimens - 1968 listing.

Folder 26 Specimens - skeletons

Folder 27 Specimens - collected by Leonard P. Schultz.

Folder 28 Specimens - other collections, general.

Folder 29 Specimens - other collections, American Museum of Natural History Lesser frigatebirds.

Folders 30-31 Specimens - other collections, British Museum.

Folder 32 Specimens - other collections, California Academy of Sciences and San Diego Society of Natural History.

Folder 33 Specimens - other collections, State University of Iowa.

Folder 34 Specimens - other collections, UCLA, Dickey collection.

Folder 35 Ten-degree square analysis.

Box 205

Folders 1-5 Ten-degree square analysis tally sheets.

Folder 6 Tropicbird specimen data and charts.

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Series 44: STOMACH DATA, 1963-1967.

This series contains data on the contents of bird stomachs collected by the project and analyzed by the Smithsonian Oceanographic Sorting Center (SOSC). The data are arranged by the lots in which the stomachs were sent to SOSC.

Box 206

Folder 1 SOSC 5 and 8/POBSP 1 (?)

Folder 2 SOSC 27/POBSP 2.

Folders 3-6 SOSC 70/POBSP 3.

Folder 7 SOSC 77/POBSP 4.

Folders 8-9 SOSC 123/POBSP 5.

Folder 10 SOSC 149/POBSP 6.

Folder 11 SOSC 187/POBSP 7.

Folder 12 SOSC 204/POBSP 8.

Folder 13 SOSC 211/POBSP 9.

Box 207

Folder 1 SOSC 229/POBSP 10.

Folder 2 SOSC 269/POBSP 11.

Folder 3 SOSC 294/POBSP 12.

Folder 4 SOSC 327/POBSP 13.

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Series 45: INSECT, MAMMAL, REPTILE, AND AMPHIBIAN DATA, 1963-1969.

This series contains notes, reports, data, and other material concerning nonbird zoological activities of the POBSP.

Box 207

Folder 5 Insects-Literature.

Folders 6-7 Mosquitoes.

Folder 8 Mammals.

Folder 9 Cetaceans.

Folder 10 Mongoose data.

Folders 11-13 Monk seals and turtles.

Folder 14 Mus autopsy data, 1966.

Folder 15 Reptiles and amphibians.

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Series 46: BOTANY DATA.

This series contains reports and notes documenting the botanical studies of the project.

Box 208

Folder 1 Botany-general. Includes species lists, keys, and suggestions for the botanical portion of the POBSP.

Folder 2 Baker Island.

Folder 3 Canton Island.

Folder 4 Caroline Islands.

Folder 5 Christmas Island.

Folder 6 Enderbury Island.

Folder 7 Fanning Island.

Folder 8 Gardner Island.

Folder 9 Howland Island.

Folder 10 Hull Island.

Folder 11 Jarvis Island.

Folder 12 Leeward Hawaiian Islands.

Folder 13 Lisianski Island.

Folder 14 McKean Island.

Folder 15 Marshall and Gilbert Islands.

Folder 16 Necker Island.

Folder 17 Nihoa Island.

Folder 18 Palmyra Atoll.

Folder 19 Phoenix Island.

Folder 20 Swains Island.

Folder 21 Sydney Island.

Folder 22 Tokelau Islands.

Folder 23 Vostok Islands.

Folder 24 Washington Island.

Folder 25 Botany field notes available in Washington.

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Series 47: BATHYTHERMOGRAPHIC DATA, 1963-1968.

This series contains data and charts documenting bathythermographic observations made in conjunction with the project.

Box 209

- Folder 1 Information on procedures and equipment.
- Folders 2-11 Cruises 85, 87-91, 94-95, 97. 1964.
- Folder 12 Marshall and Gilbert Islands cruises, 1964.
- Folder 13 *Charles H. Gilbert* cruises, 1963-1966.
- Folders 14-15 Eastern Area Cruises, 22, 24, 25, 27, 33, 34.
- Folder 16 Southern transect study, circa 1965-1968.
- Folders 17-18 Southern Island Cruises, 1965-1967.

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Series 48: LITERATURE SURVEY, 1964-1967.

As part of the POBSP, a survey of literature relating to the Central Pacific area of interest was undertaken and a central reference file of reprints and photocopies established. This series contains material documenting the survey and files.

Box 210

Folder 1 "Prospectus - Central Pacific Reference Files," 1964.

Folder 2 "Selected Bird Literature References - Aves, 1947-1963," 1965.

Folders 3-4 Listing of Central Pacific Reference File.

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This series contains manuscripts, correspondence, abstracts, and reprints of articles and tables prepared by POBSP staff and others on project activities or specimens. When the work was assigned a number in the POBSP publication series, that number appears at the end of the folder listing.

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Folder 7 Amerson. "Tick Distribution in the Central Pacific as Influenced by
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Folder 8 Amerson. "Ornithodoros capensis (Acarina: Argasidae) Infesting
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Folder 9 Amerson. "French Frigate Shoals, The True Center of Hawaii,"
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Folder 10 Amerson. "French Frigate Shoals, A History: 1786-1970," 1970.
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Folder 13 Amerson and Fain, Alex. "Two New Heteromorphic Deutonymphs
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Folder 1 DeLong, Robert L. "Ecological Implications of the Re-Establishment of Fur Seals in California," 1968.

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Folder 3 DeLong; Peterson; and LeBoeuf, Burney J. "Fur Seals from the Bering Sea Breeding in California," 1968.

Folder 4 DeLong and Thompson, Max C. "Bar-tailed Godwit from Alaska Recovered in New Zealand," 1968. (40)

Folder 5 Ely, Charles A. "Pelagic Studies of the Pacific Ocean Biological Survey," 1966.

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Folder 8 Noble, Dennis N. "On the Possibility of Large Rafts of Fulmars in the Chukchi Sea," 1970.

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Folder 10 Sanger, Gerald A. "Aspects of the Seasonal Distribution of Certain Seabirds off Washington and Oregon," 1969.

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Folder 21 Steele, Carol Wright. "Fungus Populations in Marine Waters and Coastal Sands of the Hawaiian, Line, and Phoenix Islands," 1966. (39)

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Folder 28 Tsuda, Roy T. "Marine Benthic Algae from the Leeward Hawaiian Group," 1966. (1)

Folder 29 Wirtz, William O., II. "Reproduction, Growth, and Development, and Juvenile Mortality in the Hawaiian Monk Seal," 1968. (31)

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Folder 31 Wirtz. "Report on Hawaiian Monk Seals Tagged During 1963 by the
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Folder 32 Woodward, Paul W. and Clapp, Roger B. "First Records of Baird's
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This series contains notes and manuscripts prepared by non-POBSP persons concerning either the Pacific area or some aspect of ornithology of interest to the project.

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Folder 1 Amerson, A. Binion, Jr. Ecological baseline survey of Johnston Atoll, 1973. Correspondence and records.

Folder 2 Bruyns, W. F. J. Morzer. "Seabirds of Hawaii." With comments by E. H. Bryan, Jr. Undated.

Folder 3 Carpenter, Michael L., Jackson, William B., and Fall, Michael F. "Bird Populations at Eniwetok Atoll," undated.

Folder 4 Enders, Robert Kendall. "Sea Birds." Coral Atoll Symposia of the Pacific Science Board, 1951.

Folder 5 Folsom, Theodore Robert, Edwards, B. A., and Young, David R. "Traces of Radioactivity Observed in Certain Sea Birds Collected at Widely Different Points of the Pacific in 1965."

Folder 6 Folsom and Sreekumaran, C. "The Urechis Program: Rapid Survey of Fallout Cesium in the Ocean," 1966.

Folder 7 Fosberg, "Marshall Islands Land Biota II," 1964.

Folder 8 Frick, S. K. Correspondence regarding bird observations, 1966.

Folder 9 Jones, Robert D. Correspondence regarding bird observations, 1964.

Folder 10 Joseph, Arnold B. Correspondence regarding bird observations in Northern Marshalls, 1964.

Folder 11 Kozlova, excerpts from report on ruddy turnstones, 1961.

Folder 12 Robertson, William B., Jr. Correspondence regarding recoveries of sooty terns banded at Dry Tortugas, 1968.

Folder 13 Sanger, Gerald A. "Behavioral Note on Black-footed Albatrosses at Sea," 1965.

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Folder 15 SCOPE expedition field notes, 1956.

Folder 16 Warner, Dwain Willard. Proposal to study Laysan albatrosses by satellite radio relay, 1963.

Folder 17 Watson, George E. Memorandum regarding measurement of albatrosses, 1963.

Folder 18 Watson, George E. and Angle, J. Phillip. "Report on the *Croatan* cruise in the Humboldt Current Region off Western South America," 1965.

Folders 19-20 Wetmore, Alexander. Journal and extracts from species accounts, Pacific trip, 1923.

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Aerial uncontrolled mosaic map of Midway Island (VU1-15965-2-63),
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Series 60: DATA BOOKS, 1963-1969.

The data books consist of bound copies of island survey reports, grid survey reports, project reports of various types, field notes, annual reports, and POBSP publications. It should be remembered that many of the reports are *preliminary* reports, and therefore, certain data may be inaccurate. Original records should be consulted when possible. Not all island reports are included, nor are all field notes. The bound data books are located in the Division of Birds Library, Natural History Building. A microfilm copy is available in the Archives. The data books are arranged in 95 volumes as follows:

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29. Townsend Cromwell Cruises (Bureau of Commercial Fisheries), February 1964-September 1964.
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39. Southern Island Cruises - General Reports #SIC 1-6, February 1963-December 1964.
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41. "Droppings from the Eagle's Roost," 1963-1965.
42. "Droppings from the Eagle's Roost," 1966-1969.
43. Miscellaneous Technical Reports, 1964-1968.
44. POBSP Annual Reports, 1964-1969.
45. Biological Survey of Howland Island, March 1963-May 1965, prepared by Fred C. Sibley, Roger B. Clapp, and C. R. Long (Botany Section).

46. Howland Island, 1963-1968.
47. Leeward Island Surveys - General Reports #LIS 1-23, 1963-1968.
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