

For a recent discussion of this subject, see Brackbill (*Auk*, 65, 1948:66-77).

Studies in recent years at Louisiana State University have demonstrated the practicability and desirability of making counts at night of migrating birds by use of a small telescope focused on the moon. The number of birds seen in this measurable portion of the sky furnishes an index to the total number passing over a given observation station. The telescopic method also provides a means of computing the direction and altitude of flight. From these data it will be eventually possible to determine to what extent night migrants follow set pathways, whether the flights are continuous in equal volume throughout the hours of darkness, and in what way certain meteorological conditions affect the density and direction of migration. However, large numbers of observations are necessary to obtain results of statistical significance. An intensive program of study in the spring of 1948 is being directed from Louisiana State University. Observation stations ranging from Florida to eastern Mexico and from the Yucatan Peninsula north to southern Michigan are already scheduled for operation. But many more such stations are urgently needed. Any Cooper Ornithological Club member with access to a spotting scope or a low-powered astronomical telescope who is willing to collaborate in this project, is asked to communicate immediately with George H. Lowery, Museum of Zoology, Louisiana State University, Baton Rouge, Louisiana. Detailed instructions and data sheets will be provided at once so as to permit observations in the full moon periods of April and May.

COOPER CLUB MEETINGS

NORTHERN DIVISION

OCTOBER.—The monthly meeting of the Northern Division of the Cooper Ornithological Club was held on Thursday, October 23, 1947, in Room 2503 Life Sciences Building, University of California, Berkeley, with 75 members and guests present. The following proposals for membership were read: Geil Anne Bartels, 2535 Piedmont Ave., Berkeley 4, Calif., Rose Bronz, 2247 Derby St., Berkeley 5, Calif., Henry E. Childs, 335 Pleasant St., Rumford 16, Rhode Island, Robert L. Eberhardt, 1111 High Court, Berkeley 8, Calif., Richard F. Shaw, 271 Colusa Ave., Berkeley 7, Calif., and Sidney J. Townsley, 2517 Parker St., Berkeley 4, Calif., by Henry E. Childs, Jr.; Louis

Locke, 2410 College Ave., Berkeley 4, Calif., by A. Starker Leopold; Adele M. Zimmerman, Museum of Vertebrate Zoology, University of California, Berkeley 4, Calif., by Susan E. Chattin; William J. Beecher, Chicago Natural History Museum, Chicago 5, Ill., and R. H. Gibson, R. R. 2, Box 336, St. Helena, Calif., by Frank A. Pitelka; A. Laurence Curl, 2715 Benvenue Ave., Berkeley 5, Calif., and Oliver Payne Pearson, Museum of Vertebrate Zoology, University of California, Berkeley 4, Calif., by Charles G. Sibley.

Mrs. Junea W. Kelly, the speaker of the evening, reported on the 1947 migration at Rockport, Texas.—CHARLES G. SIBLEY, *Secretary*.

NOVEMBER.—The regular monthly meeting of the Northern Division of the Cooper Ornithological Club was held on Thursday, November 18, 1947, in Room 2503 Life Sciences Building, University of California, Berkeley, with 100 members and guests present. Proposals for membership were read as follows: Don C. Fisher, Lava Beds National Monument, Tulelake, Calif., and Andrew J. Meyerrieks, 119-30 146th St., South Ozone Park 20, Long Island, N.Y., by Alden H. Miller, and Eugene Eisenmann, 11 Broadway, New York 4, N.Y., by Frank A. Pitelka.

The speaker of the evening, Mr. Carl Eklund, Biologist, U.S. Fish and Wildlife Service, presented a movie of birds and other wildlife observed on the First Byrd Antarctic Expedition.—CHARLES G. SIBLEY, *Secretary*.

DECEMBER.—The regular monthly meeting of the Northern Division of the Cooper Ornithological Club was held on Thursday, December 18, 1947, in Room 2000 Life Sciences Building, University of California, Berkeley, with 175 members and guests present. Proposals for membership were read as follows: Mrs. Russell P. Hastings, 3525 Pacific Ave., San Francisco 18, by Hilda W. Grinnell; Laird M. Williams, 1710 Arch St., Berkeley 9, by Jean M. Nelson; Raymond E. Jessop, 2338 Haste St., Berkeley 4, Bruce F. Provin, 1814 Chestnut St., Oakland, and William McBlair, 2451 Church Lane, San Pablo, all in California, by R. R. Ronkin; Morgan Harris, 1212 Bancroft Way, Berkeley, Calif., by Frank A. Pitelka; Russell H. Pray, 662 Santa Rosa Ave., Berkeley 7, Margaret J. Milwain, 731 Alma Ave., Oakland 10, and Mrs. Charles A. Harris, Rt. 1, Box 100, Carmel, all in California, by Charles G. Sibley.

Mrs. Eric Reynolds, the speaker of the eve-

ning, presented another of her excellent movies, entitled "With Feathers Flying."—CHARLES G. SIBLEY, *Secretary*.

JANUARY.—The regular monthly meeting of the Northern Division of the Cooper Ornithological Club was held on Thursday, January 22, 1948, in Room 2503 Life Sciences Building, University of California, Berkeley. Proposals for membership were read as follows: Frederick Blunt, 1563 American Ave., Long Beach 13, Calif., by Alden H. Miller; Donald E. Isaac, 272 E. 4th Ave., Chico, Calif., by Thomas L. Rodgers; Seth Tilmson Bailey, 1424 Bay St., Alameda, Calif., by Henry E. Childs, Jr.; Henry Jensen, Box 112, Park River, North Dakota, and David S. Dewey, Isleton, Calif., by Frank A. Pitelka.

Officers of the Northern Division for 1948 were elected as follows: Frank A. Pitelka, president; Junea W. Kelly, vice-president; and Charles G. Sibley, secretary.

The speaker of the evening, Dr. Harvey I. Fisher, showed some excellent Kodachrome slides of the sea birds of the Hawaiian chain.—CHARLES G. SIBLEY, *Secretary*.

SOUTHERN DIVISION

OCTOBER.—The monthly meeting of the Southern Division of the Cooper Ornithological Club was held on October 28, 1947, in Room 145 Allan Hancock Foundation, University of Southern California, Los Angeles. The following names were proposed for membership: Paul M. Baldwin, Bakersfield College, Bakersfield, Calif., and Oakleigh Thorne II, Box 401, Millbrook, N.Y., by F. M. Erickson; H. E. Beebe, 1847 N. Wilcox, Hollywood 28, Calif., and Guy C. Caldwell, 7047 Hawthorn Ave., Hollywood 28, Calif., by C. V. Duff; Sidney Paul Gordon, Thatcher Hall, Oklahoma A. and M. College, Stillwater, Oklahoma, by Levon Lee; and Frederick N. Smith, 4330 Arlington Ave., Los Angeles 43, Calif., by Sid Platford.

Dr. Raymond B. Cowles, Professor of Zoology at the University of California at Los Angeles, spoke on "High Environmental Temperatures and What They May Mean to Animal Life."—DOROTHY E. GRONER, *Secretary*.

NOVEMBER.—The regular monthly meeting of the Southern Division of the Cooper Ornithological Club was held November 25, 1947, 145 Hancock Hall, University of Southern California, Los Angeles, with 35 members and guests present.

The following names were proposed for membership: William Ralph Fish, R. D. & T., Naval Ord. Test Sta., Inyokern, Calif., by K. E. Stager; Erle Stanley Gardner, Rancho del Paisano, Temecula, Calif., by J. R. Pemberton; Richard Linsley, 5550 Poplar Blvd., Los Angeles 32, Calif., by A. L. Berry; Louise A. Luckan, 4801 Ambrose Ave., Los Angeles 27, Calif., by C. V. Duff; Ralph Mall, 2306 Harcourt St., Los Angeles 16, Calif., by H. L. Cogswell; and Henri Cleret Seibert, Ohio University, Athens, Ohio, by J. McB. Robertson.

Dr. George H. Bartholomew, Jr., of the University of California at Los Angeles, gave a talk on "The Effects of Light on Reproduction in Birds."—DOROTHY E. GRONER, *Secretary*.

JANUARY.—The regular monthly meeting of the Southern Division of the Cooper Ornithological Club was held January 27, 1948, 145 Allan Hancock Hall, University of Southern California, Los Angeles, with 173 members and guests present. The following names were proposed for membership: Vernon Barrett, 714 W. Olympic Blvd., Los Angeles 15, Calif., by J. R. Pemberton; Kenneth Earl Darrow, 231 N. Main St., Three Rivers, Mich., by O. McK. Bryens; Minnie M. Smith, P. O. Box 452, Polson, Mont., by W. L. Chambers; James Hodges, 3132 Fair Ave., Davenport, Iowa, by J. McB. Robertson; Harlan Cosgrove, 5312 Overdale Dr., Los Angeles 43, Calif., and Ronald Milton Mock, 4247 Sutro Ave., Los Angeles 43, Calif., both by Adele Lewis Grant; Virginia E. Brown, Biology Dept., Marquette University, Milwaukee, Wisc.; Bruce Edwin Cardiff, R.F.D. 1, Rialto, Calif.; Alfred Owen Crompton, Lansic Ave., Salisbury, S. Australia; Elsie R. A. Cutcher, "Yarrabin," Croudace St., New Lambton, N.S.W., Australia; Kenneth S. Littlejohn, 5 de Mayo 10, Mexico, D.F.; Robert W. Metcalf, 2606 S.E. 81st Ave., Portland 6, Ore.; George Ferdinand Miller, Box 1065, Palm Springs, Calif.; Marie E. Terheggen, 5516 Rimpau Blvd., Los Angeles 43, Calif.; Blanch L. Unterkircher, 4537½ W. 11th Place, Los Angeles 6, Calif.; and O. B. Walker, Dingabee, Mungindi, New South Wales, Australia, all by C. V. Duff.

Officers of the Southern Division for 1947 were re-elected, as follows: C. V. Duff, president; Kenneth E. Stager, vice-president; and Dorothy E. Groner, secretary.

Ed N. Harrison and Frances S. Roberts showed some of their beautiful pictures of the California Condor. Mr. Harrison related many of his personal experiences with Condors.—DOROTHY E. GRONER, *Secretary*.