

mens representing 21 species, including seven apparent types or cotypes of Capt. P. P. King, described in Zool. Journal, 1827 and Proc. Zool. Soc., 1831.

Wetmore, Alexander.—Birds of the Past in North America. (*Smithsonian Report for 1828.*)—The number of fossil forms of birds now known from the world is only about 700 as against some 25,000 living forms. In North America there have been described 155, while 108 living species have also occurred as fossils.

Witherby, H. F.—A Guide to Some Ornithological Work. (*Trans. Norfolk and Norwich Nat. Hist. Soc., XII, Pt. 5, pp. 527-549.*)—Suggestions for research.

The Ornithological Journals.

Bird-Lore. XXXII, No. 1. January-February, 1930.

Pastoral—The Winter Rest. By Mabel Osgood Wright.

My Friends of the Sycamore. By Ben East.—Barn Owl nesting in Genesee County, Mich.

The Season gives an interesting summary of bird life at the usual number of districts while the thirtieth Christmas Census occupies most of the issue (48 pages), showing the interest in this feature and the constantly increasing number of observers. The largest list came from California while in the northeastern States Cape May, N. J., led with 74 species, the result of combined observations by members of the Delaware Valley Ornithological Club. The Bronx Club had a list of 93 but did not confine its observations to the prescribed 15 mile diameter. With the advent of the automobile the adoption of a definite limit is absolutely necessary if the results are to have any real value.

The Condor. XXXII, No. 1. January-February, 1930.

Spring Observations on Cranes in Fresno County, California. By Donald D. McLean.—Excellent motion pictures of the Little Brown Crane taken from blinds dug in the field occupied by the birds.

In Memoriam: Charles deB. Green. By Allan Brooks.

The Fossil Birds of the A. O. U. Check-List. By Alexander Wetmore.—A brief summary.

American Raptores and the Study of their Economic Status. By W. L. McAtee and H. L. Stoddard.—See p. 213 *antea*.

The Breeding Birds of Central Lower California. By Griffing Bancroft.—An excellent article with beautiful photographic illustrations of nests and eggs.

Notes on the Avifauna of a Transition Island in Napa County, Calif. By Harold W. Clark.

Methods of Trapping Birds. By Ernest D. Clabaugh.—Treated according to species.

An Abnormal Wing Development in a Pintail Duck. By Hildegarde Howard.—Alleged regeneration of distal bones based on an assertion by

the owner of the bird that the end of the wing had been removed. No such regeneration in birds has ever been recorded as the author admits.

A Fossil Crane from the Pliocene of Kansas. By A. Wetmore and H. T. Martin.—*Grus nannodes* (p. 62).

In 'Notes from Field and Study' Dickey and van Rossem show that *Ortyx leucopogon* Less. is a distinct species from the Panama Quail to which the name has usually been applied and inhabits Salvador. The latter is redescribed and named *Colinus leucotis panamensis* (p. 73). The abortive crest in the Salvador bird seems to link *Eupsychortyx* with *Colinus* and the authors would unite the two.

The Wilson Bulletin. XLI, No. 4. December, 1929.

In Search of the Loon with Movie Camera. By O. J. Gromme.—Excellent illustrations.

On a Collection of Gyrfalcons from Greenland. By Walter Koelz.—Based on a series of 81 skins in the collection of the University of Michigan.—The author's treatment of the subject is at variance with that usually followed in systematic studies in-as-much as he regards it as "unfortunate that a subspecific name should be based rather on the population of a geographic unit than on a morphological form." He therefore recognizes in Greenland no less than three forms *rusticolus*, *islandus* and *candicans*. Such a treatment does not lead anywhere since it is pretty certain that the Gyrfalcon is dimorphic and if distinct names are to be given to possible members of a single family we should name our red and gray Screech Owls and other similar variants! However the paper is a valuable contribution to the study of Greenland Gyrfalcons and shows us what a tremendous variation they present.

Dr. Elliott Coues—A Sketch. By Mrs. H. J. Taylor.

The Florida Cormorant as Observed in Pinellas County, Florida. By W. G. Fargo.

Spring Bird Notes from Randolph County, Georgia. By Francis Harper.—An annotated list, based on observations made in 1921.

The Oölogist. XLVII, No. 1. January, 1930.

Marsh Birds of the Black Sloughs (Great Salt Lake.) By J. E. Sugden.

Pennsylvania and New Jersey Nest Dates for 1929. By R. F. Miller.

Starlings in the Ozarks [Missouri]. By J. A. Neff.—December 19, 1929.

The Cardinal. II, No. 7. January, 1930.

Bird Notes from Presque Isle. By O. E. Jennings.

Notes from Pymatuning. By C. A. Bergstrom.

Washington on the Ohio.—Extracts from his journal in 1770, with mention of Turkeys and other birds and a description of the river.

An English Sparrow Foster Parent and A Vulture Nest. By B. H. Christy.

Hummingbirds and their Nests By Carl W. Schlag.

Cassinia. XXVII, 1927-1928.

A Study of Great Horned Owls in the Delaware City Heronry. By Benjamin C. Hiatt.

Delaware as a Hunting Ground. By J. D. Carter.

Fall Migration at Jeffersonville, Penna. 1916-1928. By R. J. Middleton.

Two Red Letter Field Days. By R. O. Bender.

Report on the Spring Migration for the Years 1927-1928. By J. A. Gillespie.

The Murrelet. XI, No. 1. January, 1930.

We have been criticised for noticing mimeographed journals since they do not constitute publication, but we have felt that there was so much good material in such a journal as 'The Murrelet' that ornithologists should be made aware of it, in order to be able to quote from it and possibly put important matter on permanent record elsewhere. If our action had anything whatever to do with the appearance of this publication in printed form we shall feel amply rewarded, for from now on the 'Murrelet' appears as a thoroughly legitimate and attractively gotten up publication!

Nesting of the Pacific Godwit. By Stanton Warburton, Jr.—In the Yukon Delta, Alaska.

The Pygmy Owl. By Allan Brooks.

Some Notes from the Oregon Coast. By Ira N. Gabrielson, S. C. Jewett and J. C. Braly.

Nesting of the Sharp-shinned Hawk. By J. H. Bowles.

Notes on the Relationships of Parasitic Flatworms to Birds and Mammals. By John E. Guberlet.—A trematode larva causing pop-eye disease in trout is probably identical with an adult worm found in the intestines of Kingfishers.

The Gull. XII, Nos. 1 and 2. January and February, 1930.

This organ of the Audubon Society of the Pacific continues to publish valuable notes on birds in the vicinity of San Francisco.

The Wren Tit. II, No. 1. January, 1930.

Bulletin of the Santa Clara Valley Audubon Society.

The Nest-pavement of the California Horned Lark. By Gayle Pickwell.—An interesting study. A tuft of grass grows nearly always on the south rim and the pavement around the north rim consists of little clods, cow-chips or flakes of sundried adobe, according to location.

The Flicker. [Mimeographed] Organ of the Minnesota Bird Club. Vol. II, No. 1. Jan.-Feb., 1930. Contains many local notes of interest and paper by Alden Risser on recollections of bird life at Wells, Minn., in the sixties.

The Raven. [Mimeographed.] Bulletin of the Virginia Society of

Ornithology. Vol. I, No. 1. January, 1930. Contains a number of daily censuses.

Bird Banding. I, No. 1. January, 1930.

Growth Rate of the Spotted Sandpiper Chick with Notes on Nesting Habits. By Theodora Nelson.—In six cases the male was proven to take over all the duties of incubation and brooding and no other adult was present. Many illustrations add to the value of this carefully prepared study.

Suggestions for a Revised Bird-Banding Terminology. By Mabel Gillespie.—Emphasizes the loose use of the terms return, repeat and recovery and suggests a more definite terminology.

The Statistical Trends of Banding. By O. L. Austin, Jr. and J. M. Dallavalle.—Discusses methods by curve plotting of ascertaining from banding data the number of Terns in a colony and the number of young produced annually; also from the same method, when data are more numerous, the bird population of the country at large.

The Distribution of the Rough-winged Swallow in New England. By John B. May.—Suggests banding as a method of ascertaining the migration route of the species.

Two Additional Foot Diseases of Birds. By T. E. Musselman.

The Further History of a Nesting Pair of Juncos. By W. P. Smith.

Evening Grosbeak Recoveries Indicating an East-and-West Movement. By M. J. Magee.

To our mind the most important item in this number is J. A. Gillespie's note on 'Homing Instinct in Cowbirds' recording the return of a female Cowbird to his trapping station after having been successively removed to places two, three, eight and twenty miles distant. Within four hours in each case she was back in the trap. Here, as the writer says, is a bird that we should regard as lacking home instinct but which seems to have as definite a "territory" as the Cuckoo of England or any of our nest building species.

The Ibis.—(XII series) VI, No. 1. January, 1930.

The Birds of Zanzibar and Pemba. By J. H. Vaughan.—A very fully annotated list giving detailed accounts of the habits, etc. of the species.

Geographic Variation in *Aulacorhynchus prasinus*. Gould. By Donald R. Dickey and A. J. van Rossem.—Four races are recognized, of which *A. p. stenorhabdus* (p. 52), Volcan Santa Ana, Salvador and *A. p. volcanius* (p. 53), Volcan San Miguel, are described as new.

Remarks on the European forms of *Haematopus ostralegus* L. By Finn Salomonson.—Recognizes three subspecies including *H. o. malacophaga* (p. 58) Iceland, here described as new. Typical *ostralegus* breeds in Scandinavia and on the Baltic and on the German coasts, while the British and Dutch birds are *H. o. occidentalis*.

The Birds of the Rawal Pindi District, N. W. India. By Hugh Whistler.—Full notes on distribution and time of occurrence, etc.

Notes on the Dates of Issue of G. R. Gray's 'Birds' in the Zoology of the Voyage of the 'Erebus' and 'Terror' during the years 1839 to 1843, etc. By Gregory M. Mathews.—Includes also dates for the Voyage of the 'Coquille', notes on the editions of 'Gray's List of the Genera of Birds 1840' and corrections to the author's paper on 'Peale's Birds of the U. S. Exploring Expedition.'

Further Notes on the Birds of the Balearic Islands. By P. W. Munn.

Further Notes on the Birds of Alderney. By W. R. Thompson.

Bulletin of the British Ornithologists' Club.—CCCXXXVI.
November 28, 1929.

Probable Recurrence of the Lammergeier in the Southwestern Alps. By H. M. Wallis.

New forms named: *Dryobates kizuki petersi* (p. 18) for *D. k. harterti* by Kuroda.

Stictocarbo punctatus sassi, from "North Island" (p. 19); *Huttonena* (p. 19) for *Cabalus* preoccupied, and *Sterna striata aucklandornis* (p. 19) for *S. bethunei* Buller, all by Mathews.

Bulletin of the British Ornithologists' Club. CCCXXXVII.
January 9, 1930.

Address of the chairman, Dr. P. R. Lowe, on "Hybridization in Birds in its possible Relation to the Evolution of the Species." David Bannerman describes *Ptilopachus petrosus saturator* (p. 33), from Cameroon.

Bulletin of the British Ornithologists' Club. CCCXXXVIII,
January 27, 1930.

Lord Rothschild called attention to the fact that there were sixteen species of Birds of Paradise of which only one or sometimes two specimens are known and exhibited specimens of all but four.

G. M. Mathews proposed the following new genus and subspecies: *Doreenia* (p. 41), for *Nestor notabilis*; *Anthus novae seelandiae taupoensis* (p. 42), Lake Taupo, N. Z.; *Cyanoramphus auriceps novana* (p. 42), North Island, N. Z. and *Limnocinclus acuminatus jawa* for *L. a. rufescens* Mathews preoccupied.

British Birds. XXIII, No. 7. December 2, 1929.

The Behaviour of Starlings in Winter. By V. C. Wynne-Edwards.—The concluding part of a most interesting study.

The Act of Eviction by a Young Cuckoo. By F. Howard Lancum.—The author witnessed the repeated eviction of an egg of its foster parents by a young Cuckoo, and finally succeeded in securing photographs of the operation at all its stages. The little bird, blind and featherless, managed regularly to get the egg on the hollow of its back and then climbed up the side of the nest and projected it over the rim.

British Birds. XXIII, No. 8. January 1, 1930.

On the Breeding Habits of the Manx Shearwater. By R. M. Lockley.—On the Island of Skokholm, off the coast of Pembrokeshire, England,

where some 5000 pairs of the birds nest in holes in the ground. Full and interesting details are presented.

British Birds. XXIII, No. 9. February 1, 1930.

Notes from Reservoirs and Sewage Farms.—A study of transient waders on a sewage farm in 1929. By T. A. Coward and Notes from Staffordshire Reservoirs by A. W. Boyd, and from other stations by H. G. Alexander and C. Oldham. Such locations seem to attract migrant water birds in England as they do in America.

Double Brooding of the Nightjar. By D. L. Lack.

Some Breeding Habits of the Goosander. By A. S. Gorgon.

The Bateleur. I, No. 4. October, 1929.

Albinism in African Birds. By Austin Roberts.—A list of specimens.

Palaeartic Waders in Africa. By C. B. Ticehurst.

A Check-List of the Birds of Trans-Nzoia District of Kenya Colony. By a Committee of East African Ornithologists.—146 species listed in this installment.

The Emu. XXIX, Part 3. January, 1930

Parrots of the Genus *Polytelis*. By J. A. Ross and F. E. Howe.—With a colored plate of *P. swainsoni* and *P. anthopeplus*.

Feeding Habits of the Lyrebird. By M. S. R. Sharland.—Wading in water six inches deep and submerging the head to pick up food from the bottom.

Royal Australian Ornithologists' Union: Twenty-eighth Annual Congress. Held at Adelaide, November 8-9, 1929.

Questions of Distribution. By the late A. J. Campbell.—Dealing with Australia.

Economic Value of Birds. By J. N. McGilp.

Notes on Sea Birds between Melbourne, Victoria and Durban, South Africa. By R. A. Falla.

A Curious Habit of the White-eared Honeysucker. By K. A. Hindwood.—Alighted repeatedly upon men's heads and endeavored to gather hair for its nest.

Notes on Birds Observed in Mid-Western Australia in October, 1927, with a Description of a New Species of *Coracina*. By E. Ashby.—*Coracina gascoynensis* (p. 190).

A Possible Instance of Polyandry. By K. A. Hindwood.—*Malurus lamberti*.

The Preservation of Our Birds. By Spencer Roberts.

Secretary's Report, List of Members, and Account of Outings in Connection with the meeting.

Obituaries of Archibald James Campbell and John Arthur Leach.

Alauda. I, No. 6. November 15, 1929. [In French.]

Cettia cetti cetti in the west of France. By Noel Mayaud.

- Essay on the Bullfinches of France. By H. Jouard.
- Sexual Habits of the Marsh Accentor. (*Prunella modularis*). By J. Delamain.
- Observations on Birds of the Southern Outskirts of Paris. By P. Estitot (continued, and concluded in No. 7).
- Alauda.** I, No. 7. December 28, 1929. [In French.]
- Remarks on the Osteology, Ethology and Reproduction of *Parus atricapillus subrhenanus*. By H. Heim de Balsac.
- The Vision of Birds. By Dr. Rochon-Duvigneaud.
- An egg of the Great Auk apparently hitherto unrecorded is described from the "College des Chartreux de a cille de Lyon."
- L'Oiseau.** X, Nos. 9, 10, 11, 12. September-December, 1929. [In French.]
- Ornithological Excursions to Rousic Island on the North Coast of France By A. Ropars. (9).
- Characteristic Ornithological Fauna of the Dept. Loir-et-Cher. By R. Reboussin. (9, 10, 11, 12).
- Are Sand Grouse Injurious? By Dr. C. Arnault.—Decides in the negative. (9).
- Characters of the Polynesian Avifauna. By J. Berlioz. (9 and 10).
- Revision of the Genus *Rhamphastos*. By G. deGerminy. (9). 14 species recognized.
- The Huppe of Reunion (*Fregilupus varius*). By M. LeGendre. (11 and 12).
- Contribution to a Study of the Anatomy of *Monias benschi*. By L. Lavauden and H. Poisson. (11).
- The Bulbuls of French Indo-China. By J. Delacour. (12).
- Journal für Ornithologie.** LXXVIII, Heft 1. January, 1930. [In German.]
- Breeding of the Crossbill in Schleswig-Holstein with Biological Remarks. By W. Nolte.
- A Review of the Breeding Time in Birds of the Island of New Britain. By O. Meyer.
- Biological Breeding Notes during a Residence in the Mexican State of Vera Cruz. By F. Heilfurth.—Notes on eighteen species mainly Passeres.
- A Contribution to the Biology of the Birds of Angola.
- On the Migration of *Sylvia curruca*. By H. Frhr. Geyr von Schweppen-
burg.
- The Development and Structure of the Red Papillae in the Downy Young of *Fulica atra*. By G. Steinbacher.
- Remarks on the Breeding Birds of Brazil. By Emilie Snethlage.—Proposes three zones each with two subdivisions.
- Remarks on Geographic Variation in *Charadrius hiaticula*. By Finn Salomonsen.—Five races are recognized, *C. h. hiaticula* of the mainland of

Europe; *tundrae* from northern Scandinavia to Siberia; *psammodroma* subs. nov. (p. 72) Faroes, Iceland, Greenland and Cumberland Sound; *placidus* Ussuriland, Manchuria, north China to Japan; and *semipalmatus* Alaska to Cumberland Sound. The last has been regarded as a distinct species by American ornithologists.

Zosterops erythropleurus in Ussuriland. By L. Shulpin.

A Second Collection of Birds from Kwangsi. By E. Stresemann.

Possible Movement and Restraint of Movement in the Neck of Hornbills. By H. Desselberge.

Breeding of White Storks in Oldenburg. By Minister Tantzén.

Pericrocotus roseus divaricatus. Its Biology and its Breeding in far eastern Russia. By L. M. Shulpin.

Dr. Emilie Snethlage. In Memoriam. By H. Snethlage.—With a portrait.

Journal für Ornithologie. LXXVII, Heft 4. October, 1929. [In German.]

Scientific Deductions from Skillful Bird Breeding. By Margot Chodziesner.

Additions to the Review of the Palearctic Ptarmigans. By P. Serebrowsky.

Ornithologische Monatsberichte. 37, No. 6. November, 1929. [In German.]

The European Bird-banding Centers. By R. Drost.—A list with extent of activities and band inscriptions.

Birds' Eggs from Kansu. By M. Schonwetter.

New Forms from Baillundu-Land, Benguela. By O. Neumann. *Motacilla capensis simplicissima* (p. 176), *Turdus simensis kösteri* (p. 177), *Dioptrornis brunneus bailunduensis* (p. 177).

Hypotaenidia philippensis admiralitatis is described as new by O. Meyer (p. 190) from Admiralty Island.

Ornithologische Monatsberichte. 38, No. 1. January, 1930. [In German.]

Researches on the Eggs of *Megapodius eremita*. By O. Meyer.—Followed by a discussion of the duration of embryological development.

The Suschken Goose (*Anser neglectus*) in Russia. By H. Grote.

Eupetes castanonotus par (p. 17) from Dutch New Guinea is described by W. Meise; *Erythrura synoica beicki* (p. 17), *Perdix barbata kukunoorensis* (p. 18) both from northern Kansu, by E. Stresemann and *Nycticorax caledonicus cancrivorus* (p. 18), Bismark Archipelago by O. Neumann.

Beiträge zur Fortpflanzungsbiologie der Vogel. 6, No. 1. January 1930. [In German.]

Mainly devoted to papers on Johann Friedrich Neumann in celebration of the 150th anniversary of his birth.

Also several papers on local breeding birds in Germany.

Der Vogelzug.¹ I, No. 1. January, 1930. [In German.]

This excellent little journal is to be devoted entirely to the study of bird migration and bird banding. This first issue contains accounts of the work being carried on at the stations at Heligoland, Rossiten and in Russia also an account of the migration of the Coot as shown by recoveries of birds banded at Rossiten. By E. Schuz. Another paper by R. Drost discusses the Migration of the Lumme (*Uria aalge heligolandica*) from birds banded at Heligoland.

Maps serve to illustrate the movements of the species.

Der Ornithologische Beobachter. XXVII, Heft 2, 3, and 4. November and December, 1929, and January, 1930. [In German.]

Numerous notes and papers on the birds of Switzerland and accounts of the activities of the Swiss Society for bird protection.

The January issue contains a table of spring arrival dates for nineteen Swiss migrants for the years 1923 to 1926.

Le Gerfaut XIX, Fasc. 3. 1929. [In French.]

Ornithological observations in Belgium 1928-1929. By G. van H. a Wyneghem.

Ornis Fennica VI, No. 4. 1929. [In Finnish.]

Thirteen Days on Klavskar, Aland. By I. Hortling.

A Case of Albinism in *Muscicapa s. striata*. By A. J. Kopperi.

Notes on the birds of Finland.

Danske-Fugle. X, Nos. 1 and 2. 1929. [In Danish.]

Local Lists of Danish birds and other notes on bird banding, etc.

Ardea. XVIII, Af. 3. 1929. [In Dutch.]

Location of Storks in Holland in 1929. By Fr. Haverschmidt.—209 occupied nests recorded and plotted on a map with full accounts and excellent photographs.

A July Trip to Swedish Lapland. By G. A. Brouwer.

A Contribution to the Knowledge of the Breeding Habit of *Parus b. biarmicus*. By C. G. B. Ten Kate.

Kocsag. II, No. 3-4. 1929. [In Hungarian and other languages.]

Numerous local notes etc. Also the following in English or with English translations.

Seven Weeks in Iceland. By W. M. Congreve.

A Study of the Nasal Cavity of the Common Cormorant (*Phalacrocorax carbo subcormoranus*). By P. deMihalik.

A Contribution to the Natural History of *Aegyptius monachus*. By S. von Thurn-Rumbach.

¹This new quarterly journal is edited by Dr. R. Drost and Dr. E. Schuz in conjunction with the German Ornithological Society. Subscription 8M. per annum. R. Friedlander & Sohn, Berlin NW 6, Karistr. 11.

AVICULTURAL MAGAZINES.

Aviculture I. No. XII. December, 1929.

Agapornis Lovebirds with a colored plate of the species. By C. T. Metzger.

Aviculture II. No. I. January, 1930.

An Australian Sextette. By Leon Patrick.—Six Australian Parrots with a colored plate.

Breeding Rare Pheasants. By C. Scott Hopkins.

Aviculture II. No. II. February, 1929.

Whydahs.—With a plate of a male Paradise Whydah bird in the aviary of Karl Plath.

A Study of Hybrid Doves. By L. J. Cole.—With a list of crosses.

The Avicultural Magazine. VII, No. 12. December, 1929.

Breeding of Rheinhardt's Argus Pheasant in Japan. By N. Takatsukasa.

Sand Grouse. By D. Seth Smith.

The Avicultural Magazine. VIII, No. 1. January, 1930.

The Blue Touraco.—With a colored plate.

Notes on Rare Parrots of the Genus *Amazona*. By Sydney Porter.—*A. guildingi*, *versicolor*, *caymenensis*, *bodini* and *autumnalis*. (Also *A. bouqueti* in the February issue.)

The Avicultural Magazine. VIII, No. 2. February, 1930.

The White-bellied Touraco.—With a colored plate.

Nesting Habits of the King Bird of Paradise. By W. J. C. Frost.—Nested in a hole in a tree as observed in the Aru Islands and in captivity.

Vögel ferner Ländes. III, Nos. 2, 3, and 4.

Hummingbirds. By Dr. E. Schaz.—With numerous reproductions of Gould's plate (2).

Agapornis fischeri. By N. Grasl.—Colored plate of this and allied species (2).

An Ornithological Expedition to Egypt. 1929. By C. H. Cremer (3).

Birds of Abyssinia. By J. Havestadt (3).

Swan-Goose Hybrids. By F. Voss.—With photographs of various crosses.