in their account of Valentin Fernandez's visit to West Africa prior to 1506, report his statement that milho zaburro flourished in San Tomé where it was planted for the first time in 1502, having previously been shipped thither from the coast of Guinea. Here is evidence that milho zaburro was a well-established crop on the coasts of Guinea before 1502. If milho zaburro is maize, then it could not possibly be a wellestablished crop on the coasts of Guinea if it was first introduced into Spain in 1494, which is the earliest date by which Columbus could have introduced this cereal. It follows that if milho zaburro is maize, it must have existed in West Africa long before Columbus.

It is necessary to show that milho zaburro is maize. Soares de Sousa (ref. 9, 162), writing in 1587, says: "Dá-se autro-mantimento, em todo o Brazil, natural da mesma tena, a qui os indios chamam ubatim, qué é o milho de Guiné, que em Portugal chamam Zaburro . . ." Now milho de Guiné is still the name in Brazil for maize. A Portuguese dictionary of to-day gives: Zaburro, Indian corn, maize.

The question now arises: Who, then, brought maize to Africa before Columbus was born? My researches over the past seven years have now accumulated sufficient data¹⁰ to establish Arab-Negro contacts with the Americas beginning about A.D. 900.

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Non-standard Radio Propagation

SQUADRON LEADER A. G. SHEFFIELD, R.C.A.F. (VE3EB), has reported the following occurrence of non-standard radio propagation observed in Ottawa:

Date	Time (EDT)	Frequency	Location	Remarks
June 23	1900-2030	66-72 Mc./s.	WADS—TV Kansas City (915 n.m.)	Estimated signal up to 200 micro- volts (received on indoor half- wave antenna)
June 24	1300-1400	60-66 Mc./s.	KMA—TV Omaha, Neb. (897 n.m.)	Steady signal with intermittent out of phase com- ponents displaced approx. 3 micro- seconds
June 24	1300-1400	66-72 Mc./s.	Not identified	Weak signal, ori- gin unknown

He comments: "During this period, other longrange reception was evident over the frequency range of 54-72 Mc./s., but there was no opportunity for identifying it. Tests were made using a horizontally polarized co-linear antenna array consisting of four dual-stacked elements about 80 ft. above ground; 360° rotation of this antenna, which has a beamwidth to 3 db. points of about 10°, did not change

the strength or otherwise affect the signals observed. For the duration of this extraordinary long range very high-frequency reception, normal signals of a few microvolts from television stations about 100-180 miles distant could not be obtained"

The Rockcliffe weather office of the Department of Transport has very kindly furnished weather maps and an interpretation for the period June 21-25. It appears that the conditions at the time are very common for the region; these are a weak frontal surface giving a stable layer at about 10,000 ft. for the period of abnormality together with a surface inversion at about 1,000 ft. during the nights. Radio-sonde data are normally available at several points on or near the path.

P. G. FORSYTH

Pinetree Project Office, No. 4 Temporary Building, Ottawa, Canada. July 7.

NATURE

Zoological Nomenclature

Notice is hereby given of the publication of the following cases in the Class Aves involving the possible use of its plenary powers by the International Committee on Zoological Nomenclature for the purposes specified in brackets against each entry. Full particulars of these cases have been published in the Bulletin of Zoological Nomenclature, in Triple-Part 1/3 of Volume 9.

(1) Colymbus Linnæus, 1758, and Gavia (all uses prior to Gavia Forster, 1788) (suppression); (2) caspicus Hablizl, 1783, Colymbus (suppression); (3) cafra (Otis), cafer (Cuculus), sulphuratus (Cuculus), flavescens (Lanius), all of Lichtenstein, 1793 (sup pression); (4) nortoniensis Gmelin, 1789, Fringil. (suppression); (5) natka (Lanius) and septentrioned (Lanius), both of Gmelin, 1788, and eimeen (Columba), unalaschkensis (Hirundo), borealis (Mot. cilla), cirrhatus (Pelecanus), australis (Sterna), all of Gmelin, 1789 (suppression); (6) phaeus (Turdus), elegans (Motacilla), chlorotis (Muscicapa), all of Forster, 1794, and novaehollandiae Latham, 1790, Muscicapa (suppression); (7) Pyrrhocorax Tunstall, 1771 (validation, for the Chough); (8) philomelos Brehm, 1831, Turdus (validation, for the Song Thrush); (9) generic name Vermivora and trivial names lutea (Muscicapa), pensylvanica [sic] (Passer), americ. [sic] (Vermivora), all of Linnæus, 1776 (suppression); (10) migratoria Linnæus, 1766, Columba (validation, for the Passenger Pigeon); (11) Bubo Duméril, 1806, Coturnix Bonnaterre, 1790, Egretta Forster, 1817, Oriolus Linnæus, 1766 (validation, by suppression of senior homonyms published by Brisson in 1760); (12) Capella Frenzel, 1801 (validation, by suppression of Gallinago Brisson, 1760); (13) Myiobius Darwin, 1839 (validation and designation of type species); (14) cyanea Hume, 1877, Muscitrea (validation, by suppression of cyanea Vieillot, 1818, Muscicapa); (15) ferruginea Hodgson, 1845, Hemichelidon (validation, by suppression of ferruginea Merrem, 1784, Muscicapa).

Comments on the above cases should be sent to me as soon as possible.

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