NIGERIA IN MAPS

ſ

edited by K M Barbour BLITT MA D PHIL formerly Professor of Geography University of Ibadan

> J S Oguntoyinbo PHD Professor of Geography University of Ibadan

J O C Onyemelukwe PHD Senior Lecturer in Geography University of Ibadan

,

and J C Nwafor PHD Reader in Geography University of Nigeria, Nsukka



HODDER AND STOUGHTON LONDON SYDNEY AUCKLAND TORONTO

LIST OF CONTRIBUTORS

SABUMERE (Dr) Senior Lecturer in Geography, University of Ibadan A AFOLAYAN (Dr) Lecturer in Geography, University of Ibadan FAKINTOLA (Dr) Lecturer in Geography, University of Ibadan BANDAH (Prof) Professor and Head, Department of Archaeology, University of Ibadan O AREOLA (Dr) Reader in Geography, University of Ibadan OAROWOLO (Dr) Senior Lecturer in Sociology, University of Ibadan JAWOLALU (Dr) Ag. Head, Department of Religious Studies, University of Ibadan BAYENI (Dr) Reader in Geography, University of Ibadan JAYOADE (Dr) Senior Lecturer in Geography, University of Ibadan KMBARBOUR (Prof) Professor of Geography, New University of Ulster, formerly Professor of Geography, University of Ibadan [BENDOR-SAMUEL Lecturer, Summer Institute of Linguistics. High Wycombe M FILANI (Dr) Senior Lecturer in Geography, University of Ibadan A IJAGBEMI (Dr) Senior Lecturer in History, University of Ibadan S MALA Lecturer in Religious Studies, University of Ibadan ICNWAFOR (Dr) Senior Lecturer in Geography, University of Nigeria, Nsukka CSNWAJIDE Assistant Chief Geologist, Federal Ministry of Mines and Power, Makurdi IS OGUNTOYINBO (Prof) Professor of Geography and Dean, Faculty of Social Sciences, University of Ibadan SOKAFOR (Dr) Lecturer in Geography, University of Ibadan DOKPALA (Dr) Research Fellow, NISER, University of Ibadan A OKPOKO Asst Lecturer in Archaeology, University of Ibadan 10 C ONYEMELUKWE (Dr) Senior Lecturer in Geography, University of Ibadan

836 047 TS

27. Jan. 1984

ISBN 0 340 18425 6 First published 1982

Copyright © 1982 Prof. K. M. Barbour, Prof. J. S. Oguntovinbo, Dr J. O. C. Onyemelukwe, Dr J. C. Nwafor All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording or any information storage and retrieval system, without permission in writing from the publisher.

> Represented in Nigeria by Nigeria Publishers Services Ltd., P. O. Box 62, Ibadan

> > Typeset by Macmillan India Ltd, Bangalore.

Printed in Hong Kong for Hodder and Stoughton Educational, a division of Hodder and Stoughton Ltd, Mill Road, Dunton Green, Sevenoaks, Kent by Colorcraft Ltd.

CONTENTS

Preface Editors vi Introduction Michael Barbour vii

Part 1 General

- 1 Nigeria in Africa Michael Barbour 2
- 2 Nigeria and her West African neighbours Michael Barbour 4

Part 2 Physical Geography

- 3 Relief and drainage Festus Akintola 8
- 4 Surveys and mapping Michael Barbour 10
- s Geology and geomorphology Festus Akintola 12
- 6 Climate 1: ITD movements and winds Johnson Ayoade 4
- 7 Climate 2: Precipitation (1) Julius Oguntoyinbo 16
- 8 Climate 3: Precipitation (2) and radiation Julius Oguntoyinbo 18
- 9 Climate 4: Evaporation, evapotranspiration and humidity Johnson Ayoade 20
- 10 Soils Olusegun Areola 22
- 11 Vegetation Olusegun Areola 24
- 12 Forest resources Olusegun Areola 26
- 13 Land use Olusegun Areola 28
- 14 Mineral deposits Christopher Nwajide 30
- Part 3 Pre-History and Historical and Political Evolution
- 15 Archaeology artefacts, sites and dates Michael Barbour, Bassey Andah and Alexander Okpoko 34
- 16 Historical development 1: Pre-colonial and colonial Nigeria Adeleye Ijagbemi 36
- 17 Historical development 2: Nigeria since independence James Nwafor 38
- 18 Local government James Nwafor 40
- 10 The 1979 general elections Michael Barbour 42

Part 4 Social Conditions

- 20 Languages John Bendor-Samuel 16
- 21 Educational facilities 1: Primary and secondary James Nwafor 50
- 22 Educational facilities 2: Tertiary James Nwafor 52
- 23 Human diseases and health facilities Michael Barbour 54
- 24 Religions Joseph Awolalu and Samuel Mala ٢6
- 25 Population distribution and density Adejumoke Afolayan and Michael Barbour 58
- 26 Urban population IOC Onvemelukwe 60
- 27 Population mobility Michael Barbour 62
- 28 Demographic characteristics Oladele Arowolo 61

Part 5 Agriculture and Fisheries

- 29 Animal husbandry 1: Systems of production and livestock Olusegun Areola 68
- 30 Animal husbandry 2: Pests and diseases and the trade in livestock Julius Oguntoyinbo and IOC Onvemelukwe 70
- 31 Agricultural zones James Nwafor 72
- 32 Major food crops JOC Onyemelukwe 74
- 33 Major cash crops and plantations James Nwafor 76
- 34 Irrigated agriculture Julius Oguntoyinbo 78
- 35 Fisheries James Nwafor 80
- 36 Co-operative movements Stanley Okafor and JOC Onyemelukwe 82

Part 6 Rural and Urban Life

- 37 Rural settlement types 1: The southern forest zone Sylvester Abumere 86
- 38 Rural settlement types 2: The northern savanna zone Stanley Okafor 88
- 39 Urban settlement types1: Traditional cities Julius Oguntoyinbo 90
- 40 Urban settlement types 2: Modern cities Bola Ayeni 92
- 41 Urban settlement types 3: Traditional/modern cities James Nwafor 94

- 42 Urban settlement types 4: Metropolitan Lagos James Nwafor 96
- 43 Traditional house types Donald Okpala 98
- 44 Urban housing and housing problems IOC Onyemelukwe 100

Part 7 Manufacturing and Power

- 45 Traditional industries and crafts James Nwafor 104
- 46 Manufacturing 1: Consumer goods James Nwafor 106
- 47 Manufacturing 2: Capital goods IOC Onvemelukwe 108
- 48 Electricity James Nwafor 110

Part 8 Commerce

- 49 Marketing systems and periodic markets James Nwafor 114
- 50 Internal trade Sylvester Abumere and Michael Filani 116
- 51 External trade James Nwafor 118
- 52 Banking and insurance James Nwafor 120

Part 9 Communications, Transport and Planning

- 53 Communications James Nwafor 124
- 54 Transportation 1: Rail James Nwafor 126
- 55 Transportation 2: Road Michael Filani and IOC Onvemelukwe 128
- 56 Transportation 3: Inland waterways and ports James Nwafor 130
- 57 Transportation 4: Air James Nwafor 132
- 58 Tourist facilities and attractions Festus Akintola and Olusegun Areola 134
- 59 Regional inequalities Michael Barbour 136
- 60 Conclusions: Problems, prospects and challenges of the Nigerian scene Julius Oguntoyinbo and JOC Onyemelukwe 138

Appendix 1 140

- Appendix 2 141
- Glossary 142

Bibliography 144

v