

El Niño



HISTORY AND CRISIS

edited by

Richard H. Grove

and

John Chappell

CONTENTS

- INTRODUCTION. ENSO: A BRIEF OVERVIEW 1**
John Chappell and Richard H. Grove
Research School of Earth Sciences/Research School of Social Sciences, Australian National University
- 1. EL NIÑO CHRONOLOGY AND THE HISTORY OF GLOBAL
CRISES DURING THE LITTLE ICE AGE 5**
Richard H. Grove and John Chappell
Research School of Social Sciences/Research School of Earth Sciences, Australian National University
- 2. MASSIVE CORALS: GRAND ARCHIVES OF ENSO 35**
Michael K. Gagan and John Chappell
Research School of Earth Sciences, Australian National University
- 3. EL NIÑO AND THE CORAL RECORD OF SEA SURFACE
TEMPERATURES FROM THE GREAT BARRIER REEF,
AUSTRALIA 51**
Malcolm McCulloch, Graham Mortimer, Chantal Alibert and John Marshall
Research School of Earth Sciences, Australian National University
- 4. VEGETATION RESPONSE TO CLIMATE VARIABILITY:
A PALAEOECOLOGICAL PERSPECTIVE ON THE ENSO
PHENOMENON 66**
Simon Haberle
Department of Archaeology and Natural History, Research School of Pacific and Asian Studies, Australian National University
- 5. WHAT THE INSTRUMENTAL AND RECENT HISTORICAL
RECORD TELLS US ABOUT THE EL NIÑO-SOUTHERN
OSCILLATION 79**
Neville Nicholls
Bureau of Meteorology Research Centre, Melbourne, Australia
- 6. TELECONNECTIONS OF THE EL NIÑO PHENOMENON:
PUBLIC HEALTH AND EPIDEMIOLOGICAL
PROSPECTS 89**
Rosalie Woodruff and Charles Guest
National Centre for Epidemiology and Population Health, Australian National University

- 7. THE 1997-98 PAPUA NEW GUINEA DROUGHT:
PERCEPTIONS OF DISASTER 109**
- Bryant Allen*
Department of Human Geography, Research School of Pacific and Asian Studies,
Australian National University.
- 8. CONDEMNED TO REPEAT HISTORY? ENSO-RELATED
DROUGHT AND FAMINE IN IRIAN JAYA, INDONESIA,
1997-98 123**
- Chris Ballard*
Resource Management in Asia Pacific Project, Research School of Pacific and Asian
Studies, Australian National University
- 9. IMPACT OF THE 1997 DROUGHT AND FROSTS
IN PAPUA NEW GUINEA 149**
- R. Michael Bourke*
Department of Human Geography, Research School of Pacific and Asian Studies,
Australian National University
- 10. THE IMPACT OF THE 1997-98 EL NIÑO ON
INDONESIA 171**
- James J. Fox*
El Niño Impact Assessment Unit, Research School of Pacific and Asian Studies,
Australian National University
- 11. AGRICULTURAL PRODUCTIVITY IN INDIA:
THE ROLE OF CLIMATE INFORMATION IN
FORECASTING YIELDS OF FOODGRAINS 191**
- Cezary A. Kapuscinski*
Department of Economics, Research School of Pacific and Asian Studies, Australian
National University
- 12. EL NIÑO AND THE AUSTRALIAN CLIMATE:
THE DENDROCHRONOLOGICAL POTENTIAL OF
AUSTRALIAN TREES FOR DATING CLIMATE
EXTREMES OF DROUGHT, FIRE AND FLOOD 224**
- J.C.G. Banks*
Department of Forestry, School of Resource Management and Environmental
Studies, Australian National University