The Limits of Democratization
Climate, Intelligence, and Resource Distribution
Tatu Vanhanen

Washington Summit Publishers
Augusta, Georgia
A National Policy Institute Book
2009
CONTENTS

Preface xvii

Part I
The Argument and the Evidence 1

Chapter 1
Theoretical Arguments 3
  Montesquieu's idea 5
  Mental abilities of nations measured by national IQ 6
  The impact of climate on human diversity and intelligence 8
  Hypotheses to be tested 16

Chapter 2
Empirical Variables 19
  Annual mean temperature (MT) 19
  National IQ 23
  The Index of Power Resources (IPR) 27
    Indicators of resource distribution in the 2003 study 28
    Indicators of resource distribution in this study 33
  The Index of Democratization (ID) 36
  Research hypotheses and units of observation 41

Chapter 3
Hypotheses Tested 43
  Correlation analysis 43
  Multiple regression analysis 52

Chapter 4
MT as a Determinant of National IQ 59
Limits of Democratization

The impact of MT on national IQ
- European and European offshoot countries
- Latin American and Caribbean countries
- Sub-Saharan African countries
- The Middle East and North Africa
- East Asia
- Other Asian and Oceanian countries

Summary

Chapter 5
MT and IQ As Determinants of IPR
- MT as a determinant of IPR
  - Large positive and negative outliers
- National IQ as a determinant of IPR
  - Large positive and negative outliers
- Overlapping of explanations based on MT and national IQ
  - Countries around the regression line
  - The most deviating countries
  - Partly deviating countries

Summary

Chapter 6
IPR As a Determinant of Democratization
- Large positive outliers
- Large negative outliers

Summary

Chapter 7
MT and National IQ As Background Factors of Democratization
- MT as a determinant of democratization
- National IQ as a determinant of democratization
- Causal path from MT via national IQ and IPR to ID-2006
  - Countries with small and moderate residuals
  - Countries with one large residual
  - Countries with two large residuals
  - Countries with three large residuals

Conclusion

Chapter 8
The Quality of Democracy by the Level of National IQ
Table of Contents

Studies on the quality of democracy 147
Measures of the quality of democracy 153
Statistical analysis 156
Seven national IQ levels 157
Deficiencies in key institutions of democracy 165
Conclusion 169

Part II
Country Reviews and Conclusions 172

Chapter 9
Descriptive Country Reviews 175

Chapter 10
Countries at National IQ Level 1 (IQ 59–69) 177

Chapter 11
Countries at National IQ Level 2 (70–79) 195

Chapter 12
Countries at National IQ Level 3 (80–84) 205

Chapter 13
Countries at National IQ Level 4 (85–89) 221

Chapter 14
Countries at National IQ Level 5 (90–94) 233

Chapter 15
Countries at National IQ Level 6 (95–99) 241

Chapter 16
Countries at National IQ Level 7 (100–108) 247

Chapter 17
Summation 253

Chapter 18
Conclusions 257
Europe and European offshoots 261
Limits of Democratization

Latin America and the Caribbean 262
Sub-Saharan Africa 263
The Middle East and North Africa 266
East Asia 267
Other Asian and Oceanian countries 267
The significance of constraining factors 269

Appendix 1
The measures of annual mean temperature for 172 countries 275

Appendix 2
Data on tertiary gross enrollment ratio, adult literacy, the Index of Intellectual Power Resources (IR), the Index of Economic Power Resources (ER), the Index of Power Resources (IPR), and the mean of the four basic variables (Mean) in 172 countries 285

Appendix 3
The percentage of Family farms of the total area of agricultural holdings in 172 countries (1980–2005) and the percentage of the agricultural population in 2000–2005 291

Appendix 4
Data on the estimated degree of economic power resources (DD) and on its components in 172 countries 307

Appendix 5
Abbreviations used 315

References 317

Name Index 345

Subject Index 349

Biographical Information 361