Record Nr. UNINA9910132302503321 Handbook of sea-level research / / edited by Professor Ian Shennan, **Titolo** Antony J. Long, Benjamin P. Horton Pubbl/distr/stampa Hoboken, New Jersey:,: Wiley-Blackwell,, 2015 **ISBN** 1-118-45254-2 1-118-45256-9 Descrizione fisica 1 online resource (634 p.) Collana Wiley Works Classificazione SCI052000 Disciplina 551.45/8072 Soggetti Sea level - Research Climatic changes Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Title Page; Copyright Page; Contents; List of contributors; Preface; About the companion website; Chapter 1 Introduction; 1.1 AIMS OF THE HANDBOOK: 1.2 SEA-LEVEL RESEARCHERS: REFERENCES: Chapter 2 Handbook of sea-level research: framing research questions; 2.1 INTRODUCTION; 2.2 SOME NECESSARY METHODOLOGY: IDEAS AND TESTABLE HYPOTHESES; 2.3 OPERATIONAL DEFINITIONS; 2.4 FRAMING A RESEARCH QUESTION; 2.5 CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; Part 1 Field techniques for sea-level reconstruction; Chapter 3 Pre-fieldwork surveys; 3.1 INTRODUCTION; 3.2 DATA **COMPILATION** 3.3 ASSESSING GEOMORPHOLOGY3.4 EXAMPLES OF APPLYING HISTORICAL DATA TO ENHANCE SEA-LEVEL RESEARCH: REFERENCES: Chapter 4 Coastal sediments; 4.1 INTRODUCTION; 4.2 EXPOSING COASTAL SEDIMENT; 4.3 DESCRIBING COASTAL SEDIMENT; 4.4 CORRELATING AND SYNTHESIZING SEDIMENT SEQUENCES; ACKNOWLEDGEMENTS; REFERENCES; Chapter 5 Geomorphological indicators of past sea levels; 5.1 INTRODUCTION; 5.2 MODEL FOR FORMATION OF LATE PLEISTOCENE EMERGENT SHORE PLATFORMS: 5.3 GEOMORPHIC INDICATORS OF PAST SEA LEVEL AND GLACIAL ISOSTATIC ADJUSTMENT IN THE NEAR AND FAR FIELD

5.4 GEOMORPHIC INDICATORS OF PAST SEA LEVEL AND THE ISSUE OF INHERITANCE AND REOCCUPATION5.5 CORAL AS A GEOMORPHIC

INDICATOR OF PAST SEA LEVEL: 5.6 EROSIONAL LANDFORMS THAT INDICATE FORMER SEA LEVELS: 5.7 EMERGENT HOLOCENE SHORELINE DEPOSITS: BEACH RIDGES; ACKNOWLEDGEMENTS; REFERENCES; Chapter 6 Coastal caves and sinkholes; 6.1 INTRODUCTION; 6.2 COASTAL KARST BASINS: ENVIRONMENTS AND SUCCESSION; 6.3 FLANK MARGIN CAVES AS SEA-LEVEL INDICATORS; 6.4 SPELEOTHEMS AS SEA-LEVEL INDICATORS; 6.5 CAVE SEDIMENTARY DEPOSITS AS SEA-LEVEL INDICATORS; 6.6 SUMMARY; ACKNOWLEDGEMENTS: REFERENCES Chapter 7 Coral reefs7.1 INTRODUCTION; 7.2 NATURE OF CORAL REEF SYSTEMS; 7.3 DATING; 7.4 OPEN-SYSTEM PROBLEM; 7.5 234U/238U IN OCEANS; 7.6 SEA LEVELS RECONSTRUCTED FROM UPLIFTED REEFS; 7.7 SEA LEVELS RECONSTRUCTIONED FROM SUBMERGED REEFS; 7.8 CONCLUSIONS; ACKNOWLEDGEMENTS; REFERENCES; Chapter 8 Coral microatolls; 8.1 INTRODUCTION; 8.2 RELATIVE SEA LEVEL: UNDERSTANDING WHAT MICROATOLLS DO AND DO NOT RECORD: 8.3 SELECTING A SITE: WHAT MAKES A GOOD SITE?; 8.4 SURVEYING AND DOCUMENTATION STRATEGIES; 8.5 SAMPLING STRATEGIES: METHODS AND SELECTION OF MICROATOLLS TO SAMPLE 8.6 SLABBING TECHNIQUES AND SUBSEQUENT SLAB PROCESSING8.7 DATING STRATEGIES; 8.8 VERTICAL ACCURACY AND SOURCES OF ERROR; 8.9 INDICATIVE MEANING; 8.10 RECONSTRUCTING RELATIVE SEA-LEVEL TIME SERIES; 8.11 DIFFERENTIATING TECTONIC FROM NON-TECTONIC DIEDOWNS; 8.12 ENVIRONMENTAL AND ADMINISTRATIVE ISSUES: ACKNOWLEDGEMENTS: REFERENCES: Chapter 9 Archeological and biological relative sea-level indicators; 9.1 INTRODUCTION; 9.2 HISTORICAL RESEARCH CONTEXT IN THE MEDITERRANEAN: 9.3 ARCHEOLOGICAL ZONATION AND FUNCTIONAL HEIGHTS; 9.4 METHODOLOGICAL CONSIDERATIONS 9.5 PRINCIPLES OF BIOLOGICAL ZONATION OF BENTHOS ON ARCHEOLOGICAL REMAINS

Sommario/riassunto

"This book will cover all aspects of modern sea-level studies, with a focus on the most robust scientific approaches and techniques"--