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Nota di contenuto	The Seaward Margin of Belize Barrier and Atoll Reefs; Contents; Preface; 1 The geological setting of Belize reefs; INTRODUCTION; CLIMATE AND WATER CHARACTERISTICS; Climate; Water characteristics; Continental shelf; Open ocean; THE MODERN BARRIER-REEF TRACT; Bathymetry; Reefs; Lagoon reefs; Barrier reef; Surface sediments; GLOVERS REEF; THE HOLOCENE SEDIMENTARY RECORD; UNDERLYING GEOLOGICAL AND STRUCTURAL FRAMEWORK; Mainland Belize; Continental shelf and adjacent deep sea; Structural evolution; SUMMARY; 2 The geophysical anatomy of the southern Belize continental margin and adjacent basins INTRODUCTIONMETHODS; WALL-TO-BASIN TRANSITION; CONTINENTAL SLOPE AND SHALLOW BASIN SEDIMENT PACKAGES; Geometry of sediment packages; Slumps; Faults; ORIGIN OF SUBMARINE RIDGES; SUMMARY; 3 The morphology, sediments and organisms of the deep barrier reef and fore-reef; INTRODUCTION; FIELD METHODS (OPERATIONS); TERMINOLOGY; VARIATIONS IN MARGIN MORPHOLOGY;

Margins adjacent to a shallow basin; Margins along the Cayman Trough; MORPHOLOGY, ORGANISMS AND SEDIMENTS; The spur and groove; The step; The sand slope; Contact between the sand slope and brow; The brow
Barrier reef and the leeward side of Glovers ReefGlovers Reef, east side; THE WALL; Morphology; Sediments of the wall; Benthic organisms of the wall; THE SLOPING FORE-REEF; Introduction; Proximal sloping fore-reef along the barrier reef; Morphology and sediments; Organisms; The proximal sloping fore-reef on the leeward side of Glovers Reef; The distal fore-reef; THE CLIFFED FORE-REEF; Introduction; Upper talus slope; Ridge and furrow zone; Ridges and furrows; Cliffs; Sediment veneered rock slope; Deep precipice; SUMMARY; The reef front; The spur and groove; The step; The sand slope; The brow
The wallThe fore-reef; The sloping fore-reef; The cliffed fore-reef; 4 The Perireefal sediments; INTRODUCTION; SAMPLING; ANALYSIS OF SAMPLES; SEDIMENTS OF THE SHALLOW REEF; Surface sediments; Internal sediments of the spurs; SEDIMENTS OF THE LOWER REEF FRONT AND WALL; SURFACE SEDIMENTS OF THE SLOPING FORE-REEF AND BASIN; MUD; SUBSURFACE SEDIMENTS ON THE DISTAL FORE-REEF AND BASIN; South Water Cay; Tobacco Cay; Interpretation; SEDIMENTS FROM DEEP PORTIONS OF THE CLIFFED FORE-REEF AND CAYMAN TROUGH; SUMMARY; 5 The composition and age of limestones from the reef front, wall and fore-reef
INTRODUCTIONLOCATION OF SAMPLES; METHODS OF SAMPLING; STEP; Artificial exposure; Composition of limestone; Cemented outer rind; Unlithified interior; Radiocarbon ages; THE WALL AND FORE-REEF; TOP OF WALL; Artificial exposure; Composition of limestone; THE WALL; Artificial exposures; Composition of limestones; Corals; Squamariacean algae; Sediments; Radiocarbon ages; LIMESTONE BLOCK ON THE SLOPING FORE-REEF; CLIFFED FORE-REEF; Composition of limestone; Radiocarbon age; SUMMARY; Limestone composition; Radiocarbon ages of the limestones; 6 Petrography of limestones from the wall and fore-reef
INTRODUCTION

Sommario/riassunto

This first IAS Special Publication contains the oral presentations from a special symposium on pelagic sediments held in Zurich in 1973. The aim of the symposium was to bring together sea-borne researchers involved with the Deep Sea Drilling Project and land-locked researchers studying ancient sediments. If you are a member of the International Association of Sedimentologists, for purchasing details, please see: http://www.iasnet.org/publications/details.asp?code=SP3

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Nota di contenuto	CONTENTS; Foreword; Preface; Lectures on Dynamics in Models of Coarsening and Coagulation Robert L. Pego; Quantized Vortices in Superfluids - A Mathematical and Computational Study Qiang Du; The Nonlinear Schr odinger Equation and Applications in Bose-Einstein Condensation and Plasma Physics Weizhu Bao; Introduction to Constitutive Modeling of Macromolecular Fluids Qi Wang
Sommario/riassunto	The Institute for Mathematical Sciences at the National University of Singapore hosted a research program on ""Nanoscale Material Interfaces: Experiment, Theory and Simulation'' from November 2004 to January 2005. As part of the program, tutorials for graduate students and junior researchers were given by leading experts in the field. This invaluable volume collects the expanded lecture notes of four of those self-contained tutorials. The topics covered include dynamics in different models of domain coarsening and coagulation and their mathematical analysis in material sciences; a mathematical