

Contents

Part I. Limestone-Marl Rhythms and Climate-controlled Facies Changes

General Remarks About the Nature, Occurrence, and Recognition of Cyclic Sequences (Periodites) G. Einsele (With 1 Figure).....	3
Limestone-Marl Cycles (Periodites): Diagnosis, Signi- ficance, Causes - a Review G. Einsele (With 14 Figures).....	8
Observations on Well-bedded Upper Jurassic Lime- stones W.M. Bausch, J. Fatschel, and D. Hofmann (With 8 Figures).....	54
Origin of Marl-Limestone Alternation (Oxford 2) in Southwest Germany W. Ricken and C. Hemleben (With 3 Figures).....	63
Limestone-Shale Bedding and Perturbations of the Earth's Orbit W. Schwarzacher and A.G. Fischer (With 7 Figures)....	72
Rhythmic Sedimentation Documented in a Late Cretaceous Core (Abstract) L. Pratt.....	96
Ecology and Depositional Environments of Chalk-Marl and Limestone-Shale Rhythms in the Cretaceous of North America (Abstract) E.G. Kauffman.....	97
Diagenetic Redistribution of Carbonate, a Process in Forming Limestone-Marl Alternations (Devonian and Carboniferous, Rheinisches Schiefergebirge, W. Germany) W. Eder (With 12 Figures).....	98
A Contribution to the Origin of Limestone-Shale Sequences M. Walther (With 2 Figures).....	113
Deep-Sea Stratigraphy: Cenozoic Climate Steps and the Search for Chemo-Climatic Feedback W.H. Berger (With 2 Figures).....	121

Part IIA. Event Stratification. Calcareous and
Quartz-Sandy Tempestites

General Remarks About Event Deposits

A. Seilacher (With 2 Figures)..... 161

Experiments on the Distinction of Wave and Current
Influenced Shell Accumulations

E. Futterer (With 2 Figures)..... 175

Calcareous Tempestites: Storm-dominated Stratification
in Upper Muschelkalk Limestones (Middle Trias,
SW-Germany)

T. Aigner (With 10 Figures)..... 180

Allochthonous Coquinas in the Upper Muschelkalk -
Caused by Storm Events? (Abstract)

H. Hagdorn, and R. Mundlos..... 199

The role of Storm Processes in Generating Shell Beds
in Paleozoic Shelf Environments

R.D. Kreisa and R.K. Bambach (With 2 Figures)..... 200

Rhythmic Bedding and Shell Bed Formation in the Upper
Jurassic of East Greenland

F.T. Fürsich (With 5 Figures)..... 208

Shell Beds in the Lower Lias of South Germany - Facies
and Origin

G. Bloos (With 7 Figures)..... 223

Storm Sedimentation in the Carboniferous Limestones
Near Weston-Super-Mare (Dinantian, SW-England)

D. Jeffery and T. Aigner (With 1 Figure)..... 240

Event-Stratification in Nummulite Accumulations and
in Shell Beds from the Eocene of Egypt

T. Aigner (With 7 Figures)..... 248

The "Bank der kleinen Terebrateln" (Upper Muschelkalk,
Triassic) Near Schwäbisch Hall (SW-Germany) - a Tem-
pestite Condensation Horizon

H. Hagdorn (With 13 Figures)..... 263

Glauconitic Condensation Through High-Energy Events
in the Albian Near Clars (Escragnolles, Var,
SE-France)

G. Gebhard (With 4 Figures)..... 286

Muschelkalk/Keuper Bone-Beds (Middle Triassic, SW-
Germany) - Storm Condensation in a Regressive Cycle

W.-E. Reif (With 11 Figures)..... 299

Condensed Griotte Facies and Cephalopod Accumulations
in the Upper Devonian of the Eastern Anti-Atlas,
Morocco

J. Wendt and T. Aigner (With 2 Figures)..... 326

Distinctive Features of Sandy Tempestites

A. Seilacher (With 7 Figures)..... 333

Multidirectional Paleocurrents as Indicators of Shelf Storm Beds	
D.I. Gray and M.J. Benton (With 2 Figures).....	350
Scour and Fill: The Significance of Event Separation	
R. Goldring and T. Aigner (With 2 Figures).....	354
Storm-surge Sandstones and the Deposition of Interbedded Limestone: Late Precambrian, Southern Norway	
M. Tucker (With 5 Figures).....	363
Flat Pebble Conglomerates, Storm Deposits, and the Cambrian Bottom Fauna	
J.J. Sepkoski, Jr. (With 4 Figures).....	371

Part IIB. Event Stratification - Other Event Deposits

Jurassic Bedded Cherts from the North Apennines, Italy: Dyscyclic Sedimentation in the Deep Pelagic Realm	
T.J. Barrett (With 5 Figures).....	389
Quartz-sandy Allodapic Limestones as a Result of Lime Mud-Raising Clastic Turbidites	
U. Maier-Harth (With 8 Figures and 2 Plates).....	404
Belemnites as Current Indicators in Shallow Marine Turbidites of the Santonian Bavnodde Grønsand, Bornholm (Denmark)	
R. Schmidt (With 2 Figures).....	419
Habits of Zircon as a Tool for Precise Tephrostratigraphic Correlation	
J. Winter (With 1 Figure).....	423

Part III. Cyclicity and Event Stratification in Black Shales

Cyclic and Dyscyclic Black Shale Formation	
A. Wetzel (With 5 Figures).....	431
Cyclicity and the Storage of Organic Matter in Middle Cretaceous Pelagic Sediments	
P.L. deBoer (With 5 Figures).....	456
Types of Stratification in the Kupferschiefer	
J. Paul (With 2 Figures).....	476
Environmental Changes During Oil Shale Deposition as Deduced from Stable Isotope Ratios	
W. Küssert (With 5 Figures).....	482
The Community Structure of "Shell Islands" on Oxygen Depleted Substrates in Mesozoic Dark Shales and Laminated Carbonates (Abstract)	
E.G. Kauffman.....	502

Ammonite Shells as Habitats - Floats or Benthic Islands? (Abstract)	
A. Seilacher.....	504

Palynology of Upper Liassic Bituminous Shales (Abstract)	
W. Wille.....	505

The Bituminous Lower Toarcian at the Truc de Balduc Near Mende (Département de la Lozère, S-France)	
W. Rieggraf (With 2 Figures).....	506

Bedding Types of the Toarcian Black Shales in NW-Greece	
J.P. Walzebuck (With 6 Figures).....	512

Stratinomy of the Lower Kimmeridge Clay (Dorset, England) (Abstract)	
T. Aigner.....	526

The Formation of the Bituminous Layers of the Middle Triassic of Ticino (Switzerland) (Abstract)	
H. Rieber.....	527

Summary

Paleogeographic Significance of Tempestites and Periodites	
G. Einsele and A. Seilacher (With 2 Figures).....	531