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Decoding depositional sequences in carbonate systems: Concepts vs experience

Luis Pomar, Bilal U. Haq

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## **ACCEPTED MANUSCRIPT**

#### **DECODING DEPOSITIONAL SEQUENCES IN CARBONATE SYSTEMS: CONCEPTS VS EXPERIENCE**

Abstract

INTRODUCTION

CARBONATE RESERVOIRS

CARBONATE PRODUCTION

HYDRODYNAMIC BOUNDARIES

THE SOURCE: SEDIMENT SUPPLY

The carbonate factories

Bimodal vs. multimodal sediment distribution

Bulk density of carbonate grains

Carbonate grain types

THE "EMERGENT SINK": ECOLOGICAL ACCOMMODATION

Internal waves in carbonate systems

PLATFORM TYPES: INTERPLAY OF SINKS AND SOURCES

VARIABLE SOURCES AND SINKS IN CARBONATES

Dimension of the building blocks

EXAMPLES OF CARBONATE PLATFORMS AND LESSONS TAUGHT BY EXPERIENCE

DISCUSSION

Analytical strategy

Epilogue

AKNOWLEDGMENTS

REFERENCES

#### **APPENDIX: CASE STUDIES OF OUTCROP AND OFFSHORE EXAMPLES**

SUPPLY-DOMINATED SYSTEMS

1. The reef-rimmed Upper Miocene Llucmajor Platform (one system, two alternating factories)

2. The Upper Miocene Migjorn (Menorca, Spain) distally steepened ramp

ACCOMMODATION-DOMINATED SYSTEMS

3. The Oligocene-Miocene Perla Field, offshore Venezuela

4. The Vicentin Oligocene ramp, northern Italy: a mixed system

ACCOMMODATION AND SUPPLY DRIVEN SYSTEMS

5. The Upper Cretaceous (Vilanoveta) Platform, southern Pyrenees: two alternating carbonate systems.

6. The Upper Jurassic Arroyo Cerezo, Spain

7. The infra-littoral prograding wedges (several outcrops)

SYSTEMS DRIVEN BY OTHER CONDITIONS

<u>8. Matera, Italy:</u> anomalous 3D architecture of systems tracts

9. Middle Cretaceous Las Mingachas; bedding patterns vs. skeletal composition

10. Upper Miocene platforms in the Balearic Islands; changing accommodation without changing relative sea level

11. Other Examples: Which order of accretional unit is relevant for reservoir characterization?

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