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A re-evaluation of facies on Great Bahama Bank I: new facies maps of western Great Bahama Bank

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ABSTRACT

A re-evaluation of the sediment distribution patterns on western Great Bahama Bank shows a facies distribution with two end-members. Coarse-grained sediments in the north, west and south of the bank surround a mud-dominated realm located on the western leeward side of Andros Island. This facies distribution is comparable to earlier maps, but shows considerably more detail and a complex distribution from grainstones to mud-rich wackestones. As in other carbonate platforms, sediment distribution appears to be influenced by (1) tidal currents, (2) prevailing wind direction, and (3) the interaction of the rate of Holocene sea-level rise with the pre-existing Pleistocene topography. The grain-size distribution very precisely reflects current-influenced and protected areas on the platform. The correlation between the distribution of pellets and the 63–125 µm grain-size fraction most probably reflects the predominantly biological origin of this grain size. Aragonite dominates the mineralogy on the platform, low-magnesium calcite and high-magnesium calcite occurs in higher quantities only in a few environments on the platform.

Keywords: Facies distribution, grain-size, mineralogy, Great Bahama Bank, Holocene.

INTRODUCTION

The Great Bahama Bank (Fig. 1a) has served as an inspiration for geologists in understanding modern processes of carbonate sedimentation since the pioneering work of Field (1931) and Illing (1954). Most of our knowledge of the

spatial distribution of sediments on Great Bahama Bank (GBB) is based on the work of Illing (1954), Ginsburg *et al.* (1958), Newell *et al.* (1959) and Purdy (1963a,b). Valuable as these early descriptions are, it is the aim of this study to re-evaluate the distribution of the surface sediments on GBB using samples collected from precisely located points (Fig. 1b; established using GPS) and to quantify not only the types of sediments present, but also the mineralogy, grain-size distribution and skeletal and non-skeletal content. This paper together with a companion paper (Swart *et al.*, 2009) takes a new look at the surface facies and geochemistry of sediments from Great Bahama Bank.

Various maps show sedimentary facies on GBB or in the Bahamas in general (Ginsburg *et al.*, 1958; Newell *et al.*, 1959; Purdy, 1963a,b; Ball, 1967; Enos, 1974). In all these studies sediments were classified using distinct facies types with comparable subdivisions. All maps show that skeletal sediments occur mainly on the margin of the bank whereas non-skeletal grains

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