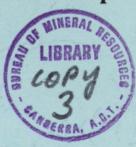
BMR compactus



BULLETIN 83A

Timor Sea Continental Shelf Sediments Map

SCALE 1:1 000 000



H. A. JONES AND W. BURGIS

BMR \$55 (94) BUL. 45 Copy. 3

DEPARTMENT OF MINERALS AND ENERGY BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

BULLETIN 83A

Timor Sea Continental Shelf Sediments Map

SCALE 1:1 000 000

H. A. JONES AND W. BURGIS



AUSTRALIAN GOVERNMENT PUBLISHING SERVICE CANBERRA, 1974 DEPARTMENT OF MINERALS AND ENERGY

MINISTER: THE HON. R. F. X. CONNOR, M.P.

SECRETARY: SIR LENOX HEWITT, O.B.E.

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

DIRECTOR: N. H. FISHER

ASSISTANT DIRECTOR, GEOLOGICAL BRANCH: J. N. CASEY

Published for the Bureau of Mineral Reserves, Geology and Geophysics by the Australian Government Publishing Service

ISBN 0642 00689 X

MANUSCRIPT RECEIVED: APRIL 1974

ISSUED: SEPTEMBER 1974

TIMOR SEA

CONTINENTAL SHELF SEDIMENTS MAP

SCALE 1:1 000 000

H. A. Jones and W. Burgis

Since the publication in 1967 of the monograph on the marine geology of the Timor Sea,¹ the Bureau of Mineral Resources has initiated a program of systematic reconnaissance geological surveys of the continental shelf. The results of this work are being published in the BMR Bulletin series accompanied by 1:1 000 000 lithofacies maps of the shelf sediments. Three sheets (Rowley Shoals, W.A.²; Scott Reef, W.A.²; and Arafura Sea, N.T.³) have been printed by early 1974, and work on two further sheets covering part of the east Australian continental shelf is well advanced.

The enclosed map of the Timor Sea sediments is at the same scale and uses the same scheme for portraying facies variations as the map sheets already printed; it has been produced to achieve uniformity of presentation of the geology of the superficial sediments of the continental shelf. Only data from BMR Bulletin 83 have been used in compiling the sheet. The basic colour scheme depicts the grain-size of the -2 mm fraction of the sediments according to the 10-compartment triangular diagram classification with sand, silt, and clay end-members. The percentage gravel component and the calcium carbonate content are represented by overprinted patterns, and bathymetric contours are shown.

Users of the map should refer to Bulletin 83 to assist in interpretation. For instance, wide areas of the shelf are non-depositional, or even subject to erosion, and therefore the variations in lithology portrayed are not exclusively the result of variations in the modern depositional regime. Also the map does not distinguish sediments which are relics of earlier regimes from modern ones; however, some information of the distribution of these older sediments can be obtained from Bulletin 83 and inferred from a study of the gravel content in relation to the bathymetry.

¹ Van Andel, Tj. H., and Veevers, J. J., 1967—Morphology and sediments of the Timor Sea. Bur. Miner. Resour. Aust. Bull. 83.

² Jones, H. A., 1973—Marine geology of the northwest Australian continental shelf. Bur. Miner. Resour. Aust. Bull. 136.

³ Jongsma, D., 1974—Marine geology of the Arafura Sea. Bur. Miner. Resour. Aust. Bull. 157.

