

Quantitative geomorphologic Study Of The Tidal Drainage Basin in Khor Al-Zubair

Sahar Tariq Al-Mula

Dept. Geology-College of Science-Basrah University

Abstarct

The present research deals with the geomorphic development of middle part of Khor Al-Zubair, to determine the stage of the development and the effect of some subsurface structures that controlled its overall morphology.

The present study depends upon the employment of the available Arial photographs and the morphometric analyses of the study area to determine the general characteristics, as well as to construct a geomorphic map for the study area, then to suggest a general classification of the Khor Al-Zubair geomorphic features.

This study proved that the middle part of Khor Al-Zubair represents an active basin of erosional and depositional processes, these processes play an important role in determining the drainage water networks and the distribution of the prominent Khor Al-Zubair geomorphic features; Tidal flats, and dendritic drainage patterns. The latter geomorphic phenomenon is attributed to the wide distribution and the homogeneity of clayey-silty bed overall the Khor Al-Zubair area. Moreover the Arial photographs revealed that the eastern parts of Khor Al-Zubair Basin seams to be affected by ancient irrigation systems.

Basrah Reser, Jour., Vol. 28, Part four, pp. 148-154., 2002.