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Hydrological Characteristics of the Region of the Sea of Najaf Using (RS) and (GIS)

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Abstract:Hydrology is abroad science that includes all water in the earth ball , the general trend of modern hydrology is the study of water above and below the surface of the earthThe aim of this study is to know the hydrological characteristics of the Najaf Sea region based on the digital elevation model of the area using geographical information systems and remote sensing technology. In this study, a number of hydrological properties were used for the area of the Najaf Sea these characteristic are (Fill, Flow Direction, Flow Accumulation, Stream Definition).In the result we obtained the highest value of the fill is (19.9983) and the lowest value is (11.9932), while the highest value for the flow direction of the water value it was (128) to the northeast direction and the lowest value is (1) to the east, the highest value of the flow accumulation is (90110657) and the lowest is (0), and the highest value of stream definition is (1), the lowest value is (0).

Key Words:Hydrology, DEM (Digital Elevation Model), Remote Sensing, GIS (Geographic Information System).