

Study of Ahvaz dust textures with of X-ray analysing method and the relationship between storms exacerbated by destruction of Hoorolazim wetlands

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Abstract

Dust from natural hazards is an important phenomenon that is natural and human causes. Dust of Iraq, Saudi Arabia, Kuwait, Jordan, Syria, and Iran reinforced in the South West and causing damage to numerous economic, social, agricultural and so on. This study done in year of 1391 on Ahvaz city dust site testing; the laboratory has been Khorasan Science and Technology Park. The purpose of this study is to determine the relationship between soil textures in Ahvaz dust of wetlands and determine the origin dust Hoorolazim and the factors affecting the wetland destruction. Materials for this research are Dust sample of 100 grams, satellite images and maps of the geology and topography Hoorolazim 1:50000 and 1:250000 and 1:100000 Ahvaz, as well as the geological map of Iraq and SPSS software to analyze the data statistically. The dust samples analyzed in laboratory with X-ray method, so the tissue of dust was determined and compared with the soil type of Hoorolazim bed Interpretation of satellite images and maps of the geology. Then the soils and factors affecting on degradation of Hoorolazim dust identified. Data related to the moisture and the occurrence of Ahvaz dust also using Spearman correlation and Kendall, investigated. The findings showed that the mineral content of the tissue samples of dust Hoorolazim Ahvaz and wetland is Calcite and Quartz. Humidity and dust between days in the city, there is a significant relationship. The average particles diameter was 16/6 microns, which is a sign of fine-grained sediment. Similar result obtained with sample of the mineral soil of Hoorolazim wetland bed, Reverse of humidity and dust as well as a number of days, showing the destruction of vegetation and wetlands of Hoorolazim is reduced. With-increasing humidity, days of dust decreases and viceversa. Hoorolazim wetland is one of the centers of Ahvaz Dust.

Keywords: Dust, wetland Hoorolazim, Ahvaz.