## JULIANA LAKE: A BENGHAZI WETLAND IN DISTRESS!



## ESAM O. ABDULSAMAD & MANSOUR M. ELBABOUR

Benghazi University, P. O. Box: 9480, Benghazi, Libya E-mails: esam000@yahoo.com & elbabour\_mansour@yahoo.com





Of all the remaining natural habitats of Benghazi's urban area, perhaps the most threatened are its karst lakes and coastal salt marshes (locally known as Sebkhas). Juliana Lake stands out as one example of a fragile traveler's sketches and maps, soil maps, photographs and satellite images provide the bases for change in the size and magnitude of the lake and its adjacent areas over time. The study also includes an assessment of are composed essentiality of mixtures of sebkha sediments such as salty clay, silt, and clayey sand. The bio-micro components of these sediments are described and a number of small-sized benthic foraminifera Juliana Lake were rich in nutrients and consequently providing an important food source for fishes, birds, and mammals. In fact, without these benthic organisms, these larger animals would not be able to survive. Finally, it is recommended that more specialized and detailed landscape ecological studies need to be undertaken by specialists to fully assess the peculiarities of Juliana Lake. Similar survey work should also be







Fig. 5: Recent and lose sediments (right view) with abundant small sized benthic foraminifera (left views)

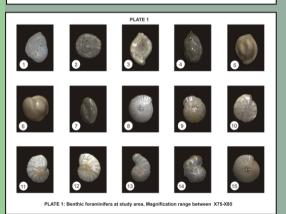








Fig. 6: Bottom sediments are forming artificial ridges along some sides of Juliana Lake (a).

These sediments are extremely rich by recent seashells of phylum mollusca & benthonic foraminifera (b).

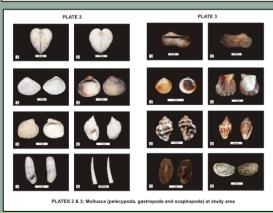








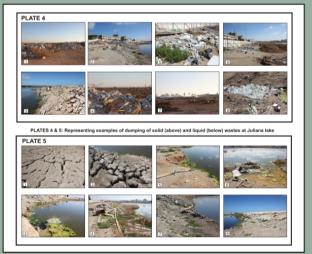
Fig 3: a & b: General views of Juliana Lake







Fig 3: c, d & e: showing sea-birds of Juliana Lake





Beechey, Cap F.W. & H.W. Beechey, Proceedings of the Expedition to Explore the Northern Coast of Africa, London, 1828

Fig 4 A & B : showing ancient Benghazi and its Juliana lake A- Renghazi, 1821 (after Reechey Brothers) B- Benghazi, 1920, reproduced after Goodchild, 1921

