



ABSTRACT SUBMISSION

The new topographic survey of Aqar Quf/Dur-Kurigalzu (Iraq)

CAVALIERE F. ¹, VALERI M. ²*

¹ NEARCHOS.it, Desenzano del Garda, Italy

² University of Bologna, Bologna, Italy

*Corresponding author

Abstract

During the 2022 first survey campaign by the University of Bologna and the SBAH, the Iraqi-Italian team mapped the entire archaeological site (425 ha), as well as the surrounding landscape (380 ha). Thanks to more than 5000 photos taken by an Autel Evo II PRO drone in RTK mode with Emlid Reach 2 GNSS antenna connected to a local NTRIP, we produced orthophotos, DSM and contour lines (thus without the need of control points on the ground). To obtain more precise data, in addition to the general orthophoto of the whole site (taken from a height of 160 m), we flew and took photos from lower heights, to map individual monuments and the latest (1992 and 2000) Iraqi excavations. With field pottery collection data, DSM and remote sensing operations carried out on CORONA satellite imagery, we were able to identify the ancient boundaries of the city and the probable location of its harbor.

Keywords

Topography, Survey, Aqar Quf, Landscape, Remote sensing

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