

**COMBINED APPLICATION OF DIFFERENT METHODS AT THE
ROMAN WATER CONDUIT SYSTEM IN THE VICINITES OF MILET
(WESTERN TURKEY)**

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Geophysical prospecting was conducted around Milet between 1993 and 1997. The objective was the determination of the functionality of the Roman water conduit system in Milet. Especially the Roman water conduit, which begins in the mountains and probably runs to a further north recumbent reservoir, were mapped over a large area. Certain sample areas were chosen for detailed studies using a combination of various measurement methods (georadar: SIR 10A, 500 MHz; geoelectric: Multi-Electrode-System, dipole-dipole 1-2 m; geomagnetic: 5 array Fluxgate, vertical gradient of the magnetic component; electromagnetic induction: EM31, 9.8 kHz). The combination of the various methods makes it possible to determine exactly the position and condition of the Roman water conduit.