

PRODUCTION OF A HIGH RESOLUTION DEM BY MEANS OF LASER-SCANNING ON A CROSS-BORDER HERITAGE AREA

Preliminary Results

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ABSTRACT:

The investigated area is a biotope-reconstruction area and situated on the Austrian-Hungarian border. It is a part of the Cultural Landscape of Fertő/Neusiedlersee Heritage site. A high resolution Digital Elevation Model derived from an aerial laser scanning data are very important in water dominant habitat. PHARE CBC Austria-Hungary Small Project Funds supported the laser-scanning on the Hungarian side, and a connecting Interreg III. B – CADSES project will finance the Austrian side. We focus on the Hungarian side and pan out about the different reference systems in this paper. A new processing method is presented for the fine-fitting of the raw data, which is required in such a slight relief area. We show the application of the DEM for the biotope-reconstruction management, and some others for monitoring purposes.

These results are preliminary and we will continue the research in the area, together with the Technical University Vienna.