

[Publications](#)[Archive](#)[Volume](#)[Full Text Search](#)[Title and Author Search](#)[Annals](#)[ISPRS Journal](#)[ISPRS Journal Geo-Info](#)[ISPRS eBulletin](#)[ISPRS Highlights](#)[Book Series](#)[Brochure](#)[ISPRS Profile](#)[Annual Reports](#)[Related Publications](#)[Booklets](#)[Volume XL-2/W3](#)

Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XL-2/W3, 261-266, 2014  
www.int-arch-photogramm-remote-sens-spatial-inf-sci.net/XL-2-W3/261/2014/  
doi: 10.5194/isprsarchives-XL-2-W3-261-2014

## CALCULATION OF PER PARCEL PROBABILITY FOR DUD BOMBS IN GERMANY

S. M. Tavakkoli Sabour<sup>1</sup>, J. Agarius<sup>2</sup>, and J. Sadidi<sup>1</sup>

<sup>1</sup>Department of Remote Sensing and GIS, Faculty of Geography, Kharazmi University, Tehran, Iran

<sup>2</sup>IGGH, Geibelstr. 63, Hanover, Germany

Keywords: Data mining, Hazards, GIS, Statistics, History, Estimation, Analysis

**Abstract.** Unexploded aerial Bombs, also known as duds or unfused bombs, of the bombardments in the past wars remain explosive for decades after the war under the earth's surface threatening the civil activities especially if dredging works are involved. Interpretation of the aerial photos taken shortly after bombardments has been proven to be useful for finding the duds. Unfortunately, the reliability of this method is limited by some factors. The chance of finding a dud on an aerial photo depends strongly on the photography system, the size of the bomb and the landcover. On the other hand, exploded bombs are considerably better detectable on aerial photos and confidently represent the extent and density of a bombardment. Considering an empirical quota of unfused bombs, the expected number of duds can be calculated by the number of exploded bombs. This can help to have a better calculation of cost-risk ratio and to classify the areas for clearance. This article is about a method for calculation of a per parcel probability of dud bombs according to the distribution and density of exploded bombs. No similar work has been reported in this field by other authors.

[Conference Paper](#) (PDF, 2154 KB)

Citation: Tavakkoli Sabour, S. M., Agarius, J., and Sadidi, J.: CALCULATION OF PER PARCEL PROBABILITY FOR DUD BOMBS IN GERMANY, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XL-2/W3, 261-266, doi: 10.5194/isprsarchives-XL-2-W3-261-2014, 2014.

[Bibtex](#) [EndNote](#) [Reference Manager](#) [XML](#)

