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Software with Graphical User Interface for Processing of Archaeological Ground Penetrating Radar Data

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Lonnie C. Ludeman, William H. Walker, and Mark Sechrist

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Abstract - Specialized computer software currently exists to process ground penetrating radar(GPR) data, but in most cases it is company exclusive, expensive and difficult to use. In this paper we present a windows based software package developed for analyzing GPR data. It uses a Graphical User Interface (GUI) written for the MATLAB environment for convenient viewing and processing of GPR data. Processing operations include: trace display, delete mean trace, apply various filters, account for depth attenuation, active cursor point location, DC averaging, etc. The program is demonstrated by using RAMAC GPR data from the Homolovi I site in Northern Arizona.

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Lonnie C. Ludeman: Klipsch School of Electrical and Computer Engineering, New Mexico State University, Las Cruces New Mexico, 88003 (lludeman@nmsu.edu)

William H. Walker and **Mark Seachrist:** Anthropology Department, New Mexico State University, Las Cruces, NM 88003 (wwalker@nmsu.edu, msechrist@zianet.com) **(AUTHORS AFFILIATION FIRST PAGE ONLY)**

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