



GeoMAPPER

GeoMAPPER Software

GeoMAPPER is an easy-to-use GPS/sensor data logging program specifically designed to simply the process of collecting georeferenced data from sensors such as the Holland Scientific Crop Circle ACS-210 and other sensors that provide RS-232 text-based data streams. GeoMAPPER is configured utilizing four easy-to-navigate menus, shown below. Software configuration can be completed in as little as 1 minute! Recorded data can be stored on your laptop's hard drive or on a USB smart drive. Additionally, recorded data is stored as a text file with a comma-separated-variable (CSV) format for easy import into surface rendering software packages.

To begin making sensor measurements, all one has to perform are three simple steps:

- Step 1) Attach your sensor and GPS to your laptop's serial ports
- Step 2) Configure GeoMAPPER
- Step 3) Start logging by clicking on GeoMAPPER's "Start MAP"

Features:

Low-cost

Easy-to-Use / Up and running in minutes!

Logs data to single or multiple files

Interpolates GPS data points

On-screen track map for improved mapping navigation and coverage

Multiple instance operation for multi-sensor recording applications

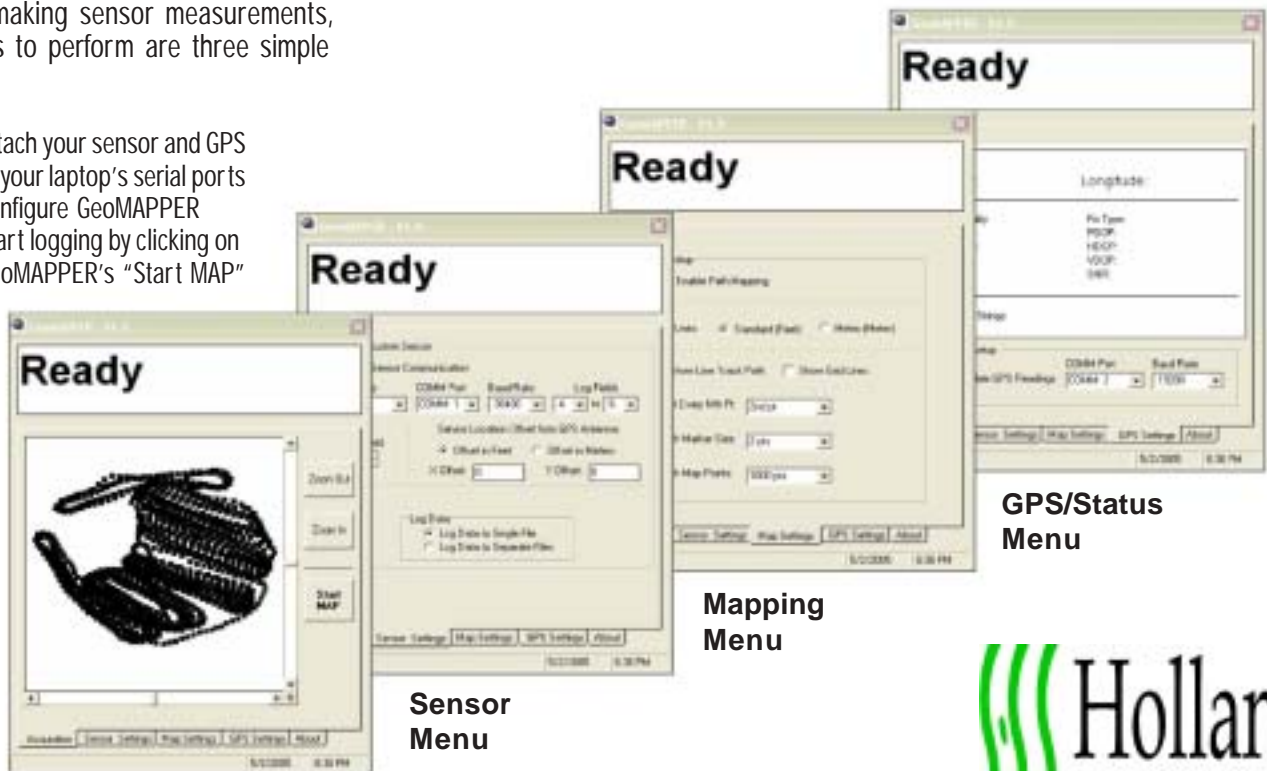
Sensor-to-GPS distance offset correction

Compatible for use with Holland Scientific Crop Circle ACS-210 and other sensors that provide RS-232 text-based data streams

GeoMAPPER Sensor Map



Typical map rendered via GIS software from data collected and georeferenced utilizing ACS-210 Crop Circle Sensor



Navigation/Acquisition Menu

Sensor Menu

Mapping Menu

GPS/Status Menu



System Requirements

Minimum System Requirements

Computer Hardware: IBM PC and PC compatibles with 256MB RAM, CD-ROM drive, 2 GB hard drive, 1.0 GHz or higher clock rate, VGA video or LCD display

Operating Systems: MicroSoft Windows 95, 98, NT or XP

Serial Ports: Minimum two RS-232 serial ports (Note: some systems will require USB-to-Serial adapters or PCMCIA serial port expansion cards to provide RS-232 capability; *adapters sold separately*)

Serial Communication: User-selectable baud rates of 1200, 2400, 4800, 9600, 19200 and 38400 baud with no parity, 8 data bits and 1 stop bit.

GPS Strings: Software supports NMEA 2.0 and higher. Requires minimum string set consisting of GPRMC, GPGGA, GPGSA and GPGSV strings.

GPS Update Rate: Software supports 1 to 5 time per second output rates.

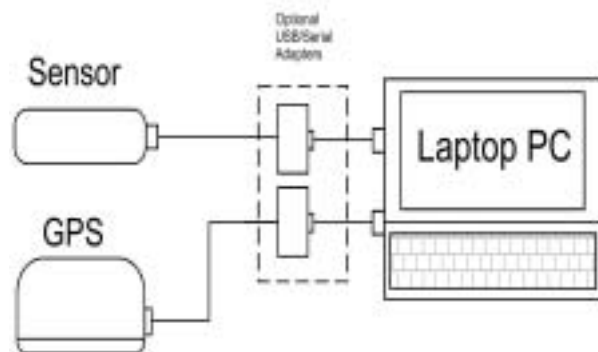
Sensor Position Offset: Supports sensor position offsets relative to antenna position in metric and standard units.

Sensor Location Interpolation: Software supports user-selectable location interpolation from GPS position data allowing georeferenced sensor data points between successive GPS readings.

Sensor Position Offset: Supports sensor position offsets relative to antenna position in metric and standard units.

Sensor Track Map: User-selectable path points, marker sizes and path tracks. Subsampling of tracking points is supported.

Typical System Setup



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