

GEOMETRICS G859 (Cs) MAGNETOMETER OPERATIONS SUMMARY

- 1) Set Up - for the St. Louis region the sensor is mounted vertical
- 2) Put on backpack, connect straps and connect power - sensor does not disconnect
- 3) power on - select "MAGNETOMETER" <ENTER>
unit must warm up for a few minutes
use arrow to select "SYSTEM SETUP" <ENTER>
select "MAGNETOMETER TEST" <ENTER>
 - Bright 1 should be about 50%
 - Signal 1 should be more than 25%ESC to exit menu and go up one level to SYSTEM SETUP
ESC again to go to the main menu
- 4) arrow to "SIMPLE SURVEY"
 - arrow (if necessary) to a new file - the unit only allows 5 files
 - set Survey Mode to continuous
 - set cycle time to 0.2 s
 - arrow to "START NEW SURVEY"
- 5) carrying out the survey
 - it is important not to have any magnetic materials on you
 - it is important to start walking when "MARK" is hit and walk at a constant pace
 - press "MARK" at every X meters press "END LINE" at the end of the line
press any key (PAUSE) to start the next line
 - press "MARK" as you start walking the next line
- 6) Fixes to Common Mistakes

It is possible to edit the data if you notice there has been an error in taking data.
Generally the edit menu is accessed by: hitting MENU key
arrow to "EDIT LINE AND MARK"

 - i) Mistakenly pressing MARK instead of END LINE at the end of a line
 - press PAUSE to stop acquisition
 - press ESC to close dialog box
 - press MENU the arrow to EDIT LINE AND MARK and press ENTER
 - arrow to GO BACK TO LAST POSITION and press ENTER
 - press ESC twice to go back to the acquisition display
 - if after pressing MARK at the end of a line (mistakenly) you hit END LINE instead of PAUSE as described above) then
 - from the EDIT menu highlight GO BACK TO LAST POSITION and press ENTER to take you back to the last position (where the END LINE was hit, which is one position past where you want to be.
 - press ENTER again to take you back to where you want to be
 - then press ESC twice and press END LINE
 - ii) Mistakenly pressing END LINE instead of MARK in the middle of a line
 - press ESC to clear the dialog box
 - press MENU, highlight EDIT LINE AND MARK and press ENTER
 - highlight GO BACK TO LAST POSITION and press ENTER

- press ESC twice to bring up the Acquisition Display

iii) If the data from the entire current line is erroneous (for a number of reasons)

- press END OF LINE

- enter the edit menu, highlight DELETE LINE and press ENTER

- arrow to RETURN TO SURVEY, go back to the beginning of the line, confirm that the next line number is correct and press MARK to repeat the line