

## CHAPTER 8

### GRITS/STAT UTILITIES MENU

#### 8.1 Introduction

This Chapter tells how to customize your **GRITS/STAT** environment through options such as changing colors and setting up printers that you will be using from within **GRITS/STAT**. You can also use the **GRITS/STAT** Utilities to convert your **GRITS/STAT** 3.x and 4.x data files to Version 5.0 format. Creating a new facility is included in the "create skeletons" Section below.

As stated earlier, the **GRITS/STAT** Utilities are provided to allow you to customize your **GRITS/STAT** environment. The utilities options are described below.

#### 8.2 Index/Pack Files

When this option is selected, you will be presented with the menu:

- *Index Files*
- *Pack & Index*
- *Exit*

Indexing is a common database procedure that organizes data so that it can be searched and handled rapidly. As you add and change data, **GRITS/STAT** automatically generates and updates these indexes. However, whenever the system has been exited unexpectedly or **data files have been transferred between disks**, you should re-index them immediately. The index utility will index all 5 **GRITS/STAT** database files (FACILITY.DBF, WELLS.DBF, PARAMS.DBF, SAMPLING.DBF, and GWDATA.DBF) as well as the 2 statistics module files (GSCOPE.DBF, and GSWELLS.DBF).

**GRITS/STAT** gives you the option of deleting data (facilities, wells, parameters, etc.) during a session. When you delete data, the system makes a note that you want to delete it, but does not permanently erase it until you 'pack' your data using this option. When you delete information, you can retrieve it using the various 'recall' options described later in this document until you pack your **GRITS/STAT** data with the *Pack & Index* option.

### 8.3 Select Printer

The Printer Selection Menu contains the following options.

- *Add a Printer*
- *Printer Editor*
- *Select a Printer*
- *Exit*

Printer selection is provided in order to allow for dot matrix and laser printing. Printers are selected through the *Select a Printer* option. When this option is selected, a list of available printers from which you can make a selection is displayed. When **GRITS/STAT** 5.0 is first installed, the only three printers that appear on this list are Epson FX/RX, Hewlett Packard LaserJet, and IBM Graphics. To add other printers to this list, use the *Add a Printer* option and provide the printer information requested. Up to eight printer selections may be stored simultaneously.

When *Add a Printer* or *Printer Editor* is selected, you will be asked to specify the printer name and given the option of entering up to four different formats for that printer: Standard Type, Condensed Type, User Defined Type 1, and User Defined Type 2. When entering these codes, use the printer codes provided in the specific printer manual, entering ASCII character as CHR( ) (e.g., "Esc" with an ASCII code of 27 is entered as CHR(27)). Keep in mind that the characters denoted by brackets will be stored in ASCII format. Currently, you need only supply the Standard and Condensed Types when you add a printer. **GRITS/STAT** will use the appropriate format type depending on the report being printed. The User Defined Types may be required at a later date.

### 8.4 Color Selection

Color selection is provided because EGA and VGA monitors often display identical colors in different hues. The Color Selector Menu gives you the following options.

- *Change Colors*
- *Default Colors*
- *Exit*

The *Change Colors* option, allows you to change any number of window and window text colors. The *Default Colors* option allows you to set all the colors back to the **GRITS/STAT** default colors.

## 8.5 Facility to Disk

This option allows you to copy all the .DBF data files associated with a particular facility (site) to a specified drive and directory. The option will check available disk space before copying and will inform the user if insufficient space is available. The Facility to Disk Menu shown below allows you to specify the directory which contains the facility files (the source) and the directory to which you would like the information copied (the target). If you do not change the source path, **GRITS/STAT** assumes that it is C:\GRITS\GRITDATA\, the directory where **GRITS/STAT** automatically stores data. If you do not change the target path, **GRITS/STAT** defaults to A:\.

- *Source Path Change*
- *Target Path Change*
- *Copy a Facility*

If you want to copy data to a floppy diskette, make sure that you have a formatted disk in the target drive. After you have specified the source and target directories, select *Copy a Facility* to initiate the copying. **GRITS/STAT** will automatically check to make sure there is sufficient space in the target drive. If **GRITS/STAT** files are already present, **GRITS/STAT** will warn you and ask if you want to overwrite those files.

## 8.6 Create Skeletons

The *Create Skeletons* utility allows you to fill alternate data directories with the necessary dBASE files without having to exit **GRITS/STAT** and copy them from DOS. *Create Skeletons* loads the 5 database files, (FACILITY.DBF, WELLS.DBF, PARAMS.DBF, SAMPLING.DBF, and GWDATA.DBF) as well as the 2 statistics module files (GSCOPE.DBF, and GSWELLS.DBF) to a selected target directory and prompts the user to enter an FCID and facility name at this time. *Create Skeletons* is designed for users who keep each facility in a separate directory or subdirectory.

## 8.7 Version convert

The *Version Convert* utility allows you to update your older **GRITS/STAT** database files to the Version 5.0 format. Separate options are provided for converting from version 3.0 and 4.1x file formats. Note that version 4.2 files are compatible with **GRITS/STAT** 5.0 and do not require conversion.

As with the *Facility to Disk* option, you will be asked to specify the source directory (where your old data is located) and the target directory (where you would like your Version 5.0 data to be placed). If you do not change the paths, **GRITS/STAT** assumes that both the source and target paths are C:\GRITS\GRITDATA\. The conversion process is entirely automated. The program will check to make sure that there is sufficient storage capacity on your target drive prior to doing the conversion.

When executed, the selected conversion program will check the format of the existing files. If the

file format does not match the selected conversion routine, an error message is displayed and the conversion is not performed.

### **8.7.1 Version 3.0 to 5.0 Data Conversion**

During conversion of v3.0 formatted files the following actions are performed:

- New data fields are added to each of the **GRITS/STAT** database files.
- Replicate codes (part of the Parameter field in v3.0 files) are moved to a separate field.
- All parameter units are converted to ppb for storage.
- The field length of Results, ACL, MCL and Detection Limits are increased to 14 places.
- Latitude and Longitude values are reformatted for more efficient storage.

Version 3 data files are not deleted, but are renamed with the .V3 extension to distinguish them from the new Version 5.0 translations.

### **8.7.2 Version 4.1x to 5.0 Data Conversion**

During conversion of v4.1x formatted files the following actions are performed:

- The field length of Results, ACL, MCL and Detection Limits are increased to 14 places.
- Storage of Latitude and Longitude values are corrected.

Version 4.1x data files are not deleted, but are renamed with the .41X extension to distinguish them from the new Version 5.0 translations.