NAME

mbm_copy − Apply mbcopy to all files referenced through a datalist, using the MB-System file suffix convention to name the output files

VERSION

Version 5.0

SYNOPSIS

mbm_copy −F*outputformat* **−I***datalist* [**−H −C −T −V**]

DESCRIPTION

mbm_copy is a macro used to copy large numbers of swath data files from one data format to another using the program **mbcopy**. The input is a datalist file referencing all of the target swath files. The output swath file format is specified with the **−F** option. If the output swath file format is not specified, the output format will be the same as the input format.

The macro identifies a filename root for each input swath file. For files with recognized filename suffixes (e.g. ".mb61" for a format 61 file), the filename root is the part of the filename that comes before the suffix. For files without a recognized suffix, the filename root is the entire filename. So, for a format 57 data file called "0007_20020425_060531.mb57", the filename root is "0007_20020425_060531". For a format 121 file named "009_1659", the filename root "009_1659".

The output filenames are automatically constructed by adding the standard MB-System file suffix to the filename root. This suffix is ".mbXXX" where XXX is the two or three digit format id number. In the event that the output filename is the same as the input filename (likely only if the **−F** option is not used to set the output format), a "c" will be placed at the beginning of the output file suffix, making it "c.mbXXX".

The **−T** option causes this macro to print out the **mbcopy** commands it will execute without actually executing them. This test option allows users to check the consequences of their command before actually running it.

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SIMPLE DESCRIPTION OF BASIC OPTIONS

−H This "help" flag cause the program to print out a description of its operation and then exit immediately.

−C

This option causes the program to check if each output file already exists, and to forgo copying those that do exist.

−F *outputformat*
This option sets the output swath format. All of the swath data files referenced in the datalist specified with the **−I** option will be copied to format *outputformat* using **mbcopy**. If the **−F** option is not given, then the input files will be copied to their input formats.

−I *datalist*
Sets the input datalist filename. A datalist is an ascii file containing a list of the input swath sonar data files to be copied and their formats. In the *datalist* file, each swath data file should be followed by a data format identifier, e.g.:

datafile1 11
datafile2 24

As discussed in the **MB-System** manual page, datalists may reference other datalists, allowing users to construct recursive datalist structures. This program uses the **MBIO** library and will read or write any swath sonar format supported by **MBIO**. A list of the swath sonar data formats currently supported by **MBIO** and their identifier values is given in the **MBIO** manual page.

−T

This option causes **mbm_copy** to print out the **mbcopy** commands it will execute without actually executing them. This test option allows users to check the consequences of their command before actually running it.

−V Causes **mbm_copy** to operate in "verbose" mode so that it outputs more information than usual.

EXAMPLES

Suppose one has three raw (format 56) Simrad EM300 data files:

0001_20020424_212920_raw.all
0002_20020425_011607_raw.all
0003_20020425_022926_raw.all

One can generate a datalist called datalistr.mb-1 referencing these three swath files using a text editor or by using **awk**:

ls −1 *all | awk '{print $1" 56"}' > datalistr.mb-1

In order to translate all three files in the processing format for Simrad multibeam data (format 57), use the **mbm_copy** macro:

mbm_copy −I datalistr.mb-1 −F 57 −T −V

The macro prints out the following as it translates the swath data:

Running: mbcopy −F56/57
-I0001_20020424_212920_raw.all
-O0001_20020424_212920.mb57
Running: mbcopy −F56/57
-I0002_20020425_011607_raw.all
-O0002_20020425_011607.mb57
Running: mbcopy −F56/57
-I0003_20020425_022926_raw.all
-O0003_20020425_022926.mb57

SEE ALSO

mbsystem(1), **mbcopy**(1), **mbdatalist**(1)

BUGS

Perhaps.