NAME

mbnavadjustmerge – Tool to merge two MBnavadjust projects, either adding one to the first or outputting a new project combining both existing projects.

VERSION

Version 5.0

SYNOPSIS

mbnavadjustmerge --input=project-base --input=project-add --output=project-output --verbose

DESCRIPTION

MBnavadjustmerge is a command line program that merges two existing **MBnavadjust** projects. If the user specifies two input projects and no output project, then the second project is added to the first. If an output project is specified, then the two projects are merged and the new combined project is output.

MBnavadjust is an interactive graphical program used to adjust swath data navigation by matching bathymetric features in overlapping and crossing swaths. The primary purpose of **mbnavadjust** is to eliminate relative navigational errors in swath data obtained from poorly navigated sonars.

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OPTIONS

--input=project-base

--input=project-add This option defines either of the input, existing **MBnavadjust** projects. A project may be defined by a relative or absolute path to the project *.nvh file or the project *.dir directory. The first use of **--input** defines the base input project, and the second defines the add input project. In the case where the **--output** option is used to define an output project, the two input projects will both be copied to the new output project (*project-base* first followed by *project-add*). If the **output** option is not specified, then the *project-base* project is used as the output, and the *project-add* project is added on to the *project-base* project.

--output=project-output

This option defines the new **MBnavadjust output project. The two input projects will both be copied to the new output project (***project-base* **first followed by** *project-add***). If the output option is not specified, then the** *project-base* **project is used as the output, and the** *project-add* **project is added on to the** *project-base* **project.**

--verbose

This option increases the verbosity of **MBnavadjustmerge**, which means that more information than by default is output to the stderr stream of the shell.

EXAMPLES

Suppose you have two AUV survey missions, 20140515m1 and 10140515m2, that overlap slightly. If you have used **MBnavadjust** to adjust the navigation of the two missions separately, you can use **MBnavadjustmerge** to merge the two **MBnavadjust** projects into a single new project without losing any of the ties made between overlapping sections in the existing projects. If the two existing projects are named "Navadjust20140515m1" and "Navadjust20140515m2", respectively, then there exist project files with a ".nvh" suffix and project directories with a ".dir" suffix. To create a new **MBnavadjust** project combining the two existing projects, the following will suffice:

mbnavadjustmerge --input=Navadjust20140515m1.nvh --input=Navadjust20140515m1.nvh --output=Navadjust20140515All.nvh
The new project Navadjust20140515All can be opened and analyzed further using **MBnavadjust**. When opening the new project, the user should first solve for a comprehensive navigation adjustment model by selecting the <Action->Invert Navigation> menu item, and then find the crossings between the two previously separate missions by selecting the <Action->Check For New Crossings> menu item

SEE ALSO

mbsystem(1), **mbio**(1), **mbprocess**(1), **mbnavadjust**(1), **mbset**(1)

BUGS

It used to be too new to be bulletproof, now its too complicated to be bulletproof. Good luck.