

## NAME

**mbdumpesf** – Output beam edits from a binary edit save file, either in the binary form or as an ASCII text dump.

## VERSION

Version 5.0

## SYNOPSIS

**mbdumpesf** **--input=***file* [**--output=***file* **--ignore-unflag** **--ignore-flag** **--ignore-filter** **--ignore-zero** **--verbose** **--help**]

## DESCRIPTION

Swath bathymetry data is typically edited either with interactive tools such as **mbedit** or automatic filters such as **mbclean**. In **MB-System**, the beam flags are stored in binary "edit save files" (file suffix ".esf"). The program **mbdumpesf** reads and outputs esf files. If no output file is specified, then each of the edit events is written in ASCII text as a single line to stdout. If an output file is specified with the **--output=***file* option, then the edit save data will be written to that file in binary form.

The four types of edit events supported by esf files are:

- action=1: flag manually
- action=2: unflag
- action=3: zero – make beam null
- action=4: flag by autofilter

This program can be forced to ignore (exclude from the output) any of the event types using the options **--ignore-unflag**, **--ignore-flag**, **--ignore-filter**, and **--ignore-zero**.

## MB-SYSTEM AUTHORSHIP

David W. Caress  
Monterey Bay Aquarium Research Institute  
Dale N. Chayes  
Center for Coastal and Ocean Mapping  
University of New Hampshire  
Christian do Santos Ferreira  
MARUM - Center for Marine Environmental Sciences  
University of Bremen

## MBDUMPESF OPTIONS

**--input=***file*

"Edit save file" (esf file) from which the edit events will be read.

**--output=***file*

Specifies output esf file. If this option is not used, then the edit event stream will be output to stdout as a sequence of ASCII text lines.

**--ignore-unflag**

Causes **mbdumpesf** to not output any unflag edit events read from the input.

**--ignore-flag**

Causes **mbdumpesf** to not output any flag edit events read from the input.

**--ignore-filter**

Causes **mbdumpesf** to not output any filter edit events read from the input.

**—ignore-zero**

Causes **mbdumpesf** to not output any zero edit events read from the input.

**—verbose**

Normally, **mbdumpesf** outputs one line for each edit event in the input esf file. If the **—verbose** flag is given, then **mbdumpesf** also outputs the total number of each type of edit event at the end of the listing.

**—help** This "help" flag causes the program to print out a description of its operation and then exit immediately.

**EXAMPLES**

Suppose one has edited a swath file 20080422\_222636.mb88, resulting in an esf file named 20080422\_222636.mb88.esf. To dump the edit events as a text stream, use **mbdumpesf**:

```
mbdumpesf -I 20080422_222636.mb88.esf
```

The output will look something like:

```
EDITS READ: i:0 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:21 action:1
EDITS READ: i:1 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:22 action:1
EDITS READ: i:2 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:23 action:1
EDITS READ: i:3 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:24 action:1
EDITS READ: i:4 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:25 action:1
EDITS READ: i:5 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:26 action:1
EDITS READ: i:6 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:27 action:1
EDITS READ: i:7 time: 947562291.799000 2008/04/22 22:26:36.799000 beam:28 action:1
```

Here the large time value is epoch seconds (seconds since 1/1/1970), and the edit event action values are:

```
action=1: flag manually
action=2: unflag
action=3: zero – make beam null
action=4: flag by autofilter
```

**SEE ALSO**

**mbsystem(1)**, **mbedit(1)**, **mbeditviz(1)**, **fBmbclean(1)**, **mbunclean(1)**

**BUGS**

Too simple to have any interesting problems.