NAME

mbgrid – Grid bathymetry, amplitude, or sidescan data from swath sonar data files.

VERSION

Version 5.0

SYNOPSIS

```
mbgrid —Ifilelist —Oroot [—Adatatype —Bborder —Cclip[/mode] —Dxdim/ydim —Edx/dy/units[!] —Fmode[/threshold] —Ggridkind —Jprojection —Kbackground —Llonflip —M —N —Ppings —Q —Rwest/east/south/north —Rfactor —Sspeed —Ttension —Utime —V —Wscale —Xextend —Yshiftx/shifty]
```

DESCRIPTION

mbgrid is a utility used to grid bathymetry, amplitude, or sidescan data contained in a set of swath sonar data files. This program uses one of eight algorithms to grid regions covered by swath sonar swaths and then can fill in gaps between the swaths (to the degree specified by the user) using a thin plate spline interpolation. The gridding algorithms include gaussian weighted mean, median filter, minimum filter, maximum filter, beam footprint considering local slope, beam footprint ignoring local slope, weighted mean near the minimum, and weighted mean near the maximum. The specifics of these algorithms are explained below.

The user must specify a file containing a list of the data files to be used and their data formats (-I), and a character string to be used as the root of the output filenames (-O). The user may specify the bounds of the region to be gridded (-Rwest/east/south/north), and either the dimensions (-D) or node spacing -E of the grid, If the bounds and grid dimensions (or spacing) are not specified, the program will select the region encompassing all of the data in the input files and a grid spacing equivalent to 0.02 times the maximum sonar altitude. The automatically calculated grid bounds will exactly correspond to the smallest rectangular region including the data unless the user specifies a larger region using -Rfactor. The value factor must be greater than one; if factor = 1.1 then the grid bounds will be expanded to the east and west by an amount 0.05 times the data bounds east-west extend and to the north and south by an amount 0.05 times the data bounds north-south extent. The user can also specify the type of the input data (-A), the width of the gaussian filter used for weighted average gridding (-W), the maximum distance from data points that the spline interpolation is used (-C), the format of the output files, and other parameters.

By default, **mbgrid** generates grids in Geographic coordinates, meaning that position is defined in longitude and latitude using the WGS84 horizontal datum. The -J option can be used to specify an alternate, projected coordinate system (PCS). When a PCS is used, position will be defined in eastings and northings (meters) relative to the origin of the particular PCS. Universal Transverse Mercator is the most commonly used PCS in the oceanographic community, but **mbgrid** supports a large number of other PCS as well. A list of the supported PCS's is provided at the end of this manual page.

Before opening an input swath data file, **mbgrid** checks for an ascii file in the same directory having the same name except that ".inf" is appended to the end. The program assumes that this ascii file contains the output of the program **mbinfo** run on the input data file. If the ".inf" file exists, **mbgrid** reads the minimum and maximum longitude and latitude bounds from the **mbinfo** output and compares those to the working bounds for the grid. If the ".inf" file indicates that none of the data in the input file lies inside the working grid bounds, that input file is skipped. This allows users to maintain a single master list of data files for use in all gridding without the performance penalty of **mbgrid** reading through all the data files, even those with no relevant data. We recommend that users maintain a ".inf" file for each swath data file used for gridding or plotting. The programs **mbswath** and **mbcontour** also use ".inf" files in the same fashion.

Usually, the internal working grid has the same boundaries as the output grid. However, the $-\mathbf{X}$ option allows the size of the internal grid to be increased so that data outside the grid can be used to guide the spline interpolation of data gaps which happen to lie at the the edge of the grid. This is particularly important

when adjacent grids are created which should match along the edges. The data input bounds are set to a region three times as large as the working grid in both longitude and latitude. The program reads all pings which lie within the data input bounds, and accepts all beam values with locations within the working grid. In addition to swath sonar data in formats supported by **MB-System** (see the **MB-System** manual page), **mbgrid** can also read data from ASCII text files in longitude, latitude, value triples. This allows one to incorporate conventional echosounder bathymetry data into the gridding.

The available gridding algorithms specified with the **-F** option are:

- 1. Gaussian weighted mean filter
- 2. Median filter
- 3. Minimum filter
- 4. Maximum filter
- 5. Beam footprint with slope
- 6. Beam footprint
- 7. Minimum weighted mean
- 8. Maximum weighted mean

Algorithms 5 and 6 can only be used to grid bathymetry data, and are not available for gridding amplitude or sidescan data.

If the default weighted average gridding scheme $(-\mathbf{F}I)$ is being used, each data point's contribution to a Gaussian weighted average for each nearby grid cell is calculated as the point is read and added to the grid cell sums. The weighting function is given by:

$$W(r) = Aexp(-r**2/a**2)$$

where r is the distance from the center of the grid point to the data point, a is the distance at which the weighting function falls to 1/e of its maximum value, and A is a normalizing factor set so that the sum of all the weights adds to a value of 1. Normally, the distance a is set to be half the average grid point spacing, but this can be varied using the $-\mathbf{W}$ option.

If the -F2 option is used, the gridding is performed with a median filter scheme instead of a Gaussian weighted average. In this approach, all of the values for each bin are held in memory until all of the data has been read. Then, the median value for each bin is assigned as the gridded value for that bin. The advantage of a median filter approach is that it is relatively insensitive to isolated artifacts in the data, provided that several samples exist for each bin. The disadvantage to the median filter is that in the absence of artifacts, the weighted average scheme does a better job of representing the gridded field, particularly if the spectral characteristics of the gridded field are important. The median filter approach also requires much more memory than a weighted average. In general, edited bathymetry should be gridded using the Gaussian weighted average, while unedited bathymetry, beam amplitude, and sidescan data should be gridded using the median filter.

The minimum filter (-F4) and maximum filter (-F4) gridding schemes work like the median filter, except that the minimum or maximum bin values are reported instead of the median. These algorithms can be useful for producing grids which strongly reflect outliers in the data. Hydrographers often prefer to grid bathymetry using a minimum depth scheme because they are most interested in the shallowest (most dangerous) soundings in their data.

If the **-F**5 option is used, gridding of multibeam bathymetry is performed using beam footprints rather than a weighting function tied to the grid cell spacing. In this algorithm, the beam footprints are calculated using the angular beamwidths and the sonar altitude above the seafloor. A weighting value is calculated for each grid cell which fully or parially lies within the beam footprint; these weighting values represent the fraction of the beam contained within the cell. Each footprint is tilted according to the local slope; the slope is estimated from a low resolution, first pass grid created by simple mean filtering the soundings. The slope grid is generated using a cell size twice that of the final grid. This approach allows one to sensibly grid data using a resolution greater than that of the raw data. Thus, if one has data with a large depth variation, one can generate a grid with a cell spacing appropriate for the high resolution, shallow data and still get sensible

results in deep regions where the grid cells may be much smaller than the beam footprints. Bathymetry data derived from sources other than multibeam data (e.g. xyz, lidar, photogrammetry) are treated as points rather than soundings with footprints; the full weight of each sounding is applied to the grid cell in which it is located.

The -**F**6 option results in beam footprint gridding of multibeam data without application of a local slope estimate.

The minimum weighted mean algorithm is specified like the minimum filter but with a threshold value added (e.g. **–F**3/threshold). Here the Gaussian weighted mean value is calculated using only the valid soundings that are within threshold meters of the minimum sounding in the grid bin. This algorithm allows for sensible gridding when the soundings include three dimensional features such as overhangs or vertical walls, and the desired result is to represent the minimum or shallowest surface.

The maximum weighted mean algorithm is specified like the maximum filter but with a threshold value added (e.g. **-F**4/threshold). Here the Gaussian weighted mean value is calculated using only the valid soundings that are within threshold meters of the maximum sounding in the grid bin. This algorithm allows for sensible gridding when the soundings include three dimensional features such as overhangs or vertical walls, and the desired result is to represent the maximum or deepest surface.

Normally, all of the data which falls into the region of interest is used to construct the gridded data set. This means that the data from overlapping swaths will be "averaged" in the region of overlap. Averaging bathymetry data from overlapping swaths is usually fine, but averaging imagery data (beam amplitude or sidescan) derived from different swaths is usually undesirable. The –U option allows the user to force **mb-grid** to ignore data which overlies regions already covered by previous data (as defined by a time lag criterea). Alternatively, the user can force the program to use only the last data in a region, again as defined by a time lag. This option works best with the median filter scheme.

The gridding can be augmented by interpolation using a 2D thin plate spline algorithm with optional tension. The use of interpolation is set with the $-\mathbf{C}clip[/mode]$ option, and is only used to fill in grid cells left undefined after all of the swath data have been processed. The *clip* value sets the distance from swath data to which the interpolation is applied (this distance is specified as an integer number of grid cells, so the physical distance is *clip* times the grid cell interval). If mode = 1 (the default), undefined cells will be filled with interpolation only if cells filled with swath data are found within *clip* cells in two opposite directions (e.g east and west, or northeast and southwest). This approach serves to fill in data gaps while avoiding adding an interpolated band around the edges of a survey. A caution: a large value of *clip* combined with mode = 1 will be VERY slow. If mode = 2, then undefined cells will be filled with the interpolation if they are within *clip* cells of swath data in any direction. This approach is faster, but can make a survey look larger and more complete than in reality. If mode = 3 or *clip* is set to a value greater than both dimensions of the output grid, then all grid cells not set by swath data will be filled by interpolation. The $-\mathbf{T}tension$ option modulates the thin plate spline algorithm. Using the default tension = 0.0 corresponds to a minimum curvature, pure Laplacian solution. If tension is made large, the solution tends toward a thin plate spline and is effectively flattened.

The **–K**background option is used to underlay a bathymetry or topography grid with a global or regional topography model. The background data model can be read from a GMT grid file or from a database accessed by the **GMT** program **grdraster**. In the former casebac kground is just the file path for the background grid. In the latter case background is an identifier number used to specify which dataset to extract using **grdraster**. These identifiers are user defined and vary with **GMT** installations. When the **–K**background option is invoked, **grd2xyz** or **grdraster** is used to extract all of the longitude, latitude, and topography values within the specified database that lie within the desired grid. These values are interpolated onto the desired grid locations using the thin plate spline algorithm, and then mapped onto the grid wherever the values are undefined by either swath data or the spline interpolation invoked with the **–C** option.

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For magnetic inversions it is useful to have a bathymetry grid which tails off to a constant value at the border. To facilitate this, the $-\mathbf{B}$ option allows the user to set the border of a smoothly interpolated grid to a constant value wherever no data are present. This is useful only if the data are confined to the central region of the grid and a smooth interpolation is done with a large *clip* so that the entire grid is filled.

The output grid will by default contain values of 99999.9 at cells containing no data; if the **-N** option is used then the flagging value used is NaN, or not-a-number.

The names of the output files are based on the root character string specified using the $-\mathbf{O}$ option. A number of grid formats are supported, including all of the grid formats supported by **GMT**. See the- \mathbf{G} option below for a list of the available formats. If the grid is output in any of the **GMT** grid formats, then its filename is "root.grd", and a shellscript which will allow the contents of the grid to be viewed using **GMT** programs is also output with the filename "root.grd.cmd". If the $-\mathbf{G}I$ option is used to specify an ascii format grid, then the output grid filename will be "root.asc", but no plotting shellscript will be created.

A datalist file containing references to all of the swath files actually contibuting to the grid is also created. This file is named by adding a ".mb-1" suffix to the root string.

The -M option causes mbgrid to output two additional grids, the first ("root_num.grd") being the number of data points located within each bin, and the second ("root_sd.grd") being the standard deviation of the data points located within each bin. Plotting shellscripts called "root_num.grd.cmd" and "root_sd.grd.cmd" are also output if the grids are in a GMT grid format. The -M option is ignored when the minimum or maximum filter gridding algorithms are used.

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OPTIONS

-A datatype

Sets the type of data to be read and gridded. If datatype = 1, bathymetry data will be gridded (positive downwards). If datatype = 2, bathymetry data will be gridded as topography (positive upwards). If datatype = 3, amplitude data will be gridded. If datatype = 4, sidescan data will be gridded. Default: datatype = 1 (bathymetry).

−**B** border

Sets the border of a smoothly interpolated grid to the value *border* wherever no data exist, provided border > 0.0. Default: border = 0.0

-C clip[/mode]

Controls the use of spline interpolation to fill grid cells not filled by swath data. The clip value sets the distance from swath data (in grid cells) that the spline interpolation may be applied. If clip=0 no spline interpolation will be done. If mode=1 (the default), then the interpolation will fill data gaps up to two times clip grid cells in size. If mode=2 then the spline interpolation will fill all undefined cells within a distance of clip cells from data. If mode=3 or clip is set to a value greater than both dimensions of the output grid, then all grid cells not set by swath data will be filled by interpolation. Default: clip=0 and mode=1.

−D *xdim/ydim*

Sets the dimensions of the output grid. This option is superceded if the user specifies the grid spacing with the $-\mathbf{E}$ option. Default: xdim = ydim = 101.

$-\mathbf{E}$ $\frac{dx}{dy}/units[!]$

Sets the grid cell spacing to dx in longitude and dy in latitude. If units is not specified, the dx and dy values are assumed to be in meters. Valid values for units include "km", "meters", "feet", "degrees", "arcmin", and "arcsec". If not in degrees, the grid cell spacing values are converted to degrees. For "km" and "meters", the conversion to degrees is made using the distance per degree latitude calculated for the Earth's surface at the central latitude of the grid. If dy = 0.0, then the latitude cell spacing will be set equal to the longitude cell spacing (after conversion to degrees, if necessary). By default, the grid spacing is calculated from the grid bounds and the grid dimensions. When the user uses the $-\mathbf{E}$ option to set the cell spacings, the grid dimensions are calculated using the grid bounds and grid cell spacings. However, slight adjustments to the grid cell spacings are usually required to keep the grid bounds as specified. Appending an ! to the end of the $-\mathbf{E}$ arguments forces \mathbf{mbgrid} to use the exact grid cell spacing values specified by adjusting the grid bounds. Default: If neither the $-\mathbf{E}$ or $-\mathbf{D}$ options are specified, the program sets the grid cell spacing to be 0.02 times the maximum sonar altitude in the input files.

-F *mode*[/threshold]

Sets the gridding algorithm to be used.

```
mode = 1: Gaussian Weighted Mean
```

mode = 2: Median Filter mode = 3: Minimum Filter

mode = 4: Maximum Filter

mode = 5: Weighted Sonar Footprint with slope

mode = 6: Weighted Sonar Footprintmode = 3 + threshold: Minimum Weighted Mean

mode = 4 + threshold: Maximum Weighted Mean

When used, the *threshold* value is defined in meters. The default gridding algorithm is mode = 1 (Gaussian Weighted Mean).

-G gridkind

This option sets the format of the output grid file. The default is to output a current generation GMT COARDS-compliant netCDF 4-byte float grid. To output a different grid format, specify a two-letter **GMT** grid format id listed below, or use the full **GMT** grid format syntax, which allows for scaling and offsets of the data. The **GMT** grid format ids are:

```
GMT 4 netCDF standard formats
_____
nb GMT netCDF format (8-bit integer, COARDS, CF-1.5)
ns GMT netCDF format (16-bit integer, COARDS, CF-1.5)
ni GMT netCDF format (32-bit integer, COARDS, CF-1.5)
nf GMT netCDF format (32-bit float, COARDS, CF-1.5)
nd GMT netCDF format (64-bit float, COARDS, CF-1.5)
_____
GMT 3 netCDF legacy formats
cb GMT netCDF format (8-bit integer, depreciated)
cs GMT netCDF format (16-bit integer, depreciated)
ci GMT netCDF format (32-bit integer, depreciated)
cf GMT netCDF format (32-bit float, depreciated)
cd GMT netCDF format (64-bit float, depreciated)
_____
GMT native binary formats
```

```
bm GMT native, C-binary format (bit-mask)
bb GMT native, C-binary format (8-bit integer)
bs GMT native, C-binary format (16-bit integer)
bi GMT native, C-binary format (32-bit integer)
bf GMT native, C-binary format (32-bit float)
bd GMT native, C-binary format (64-bit float)
-----
Miscellaneous grid formats
_____
rb SUN raster file format (8-bit standard)
rf GEODAS grid format GRD98 (NCEI)
sf Golden Software Surfer format 6 (32-bit float)
sd Golden Software Surfer format 7 (64-bit float)
af Atlantic Geoscience Center AGC (32-bit float)
ei ESRI Arc/Info ASCII Grid Interchange format (ASCII integer)
ef ESRI Arc/Info ASCII Grid Interchange format (ASCII float)
gd Import/export via GDAL 19
```

The full **GMT** grid format string has the form:

=id[/scale/offset[/nan]]

where id is one of the **GMT** format ids listed above, and the other values are optional. If *scale* and *offset* are given, the data will be multiplied by *scale* and offset by *offset* prior to being output. The *nan* value sets the value used for "not-a-number".

For backward compatibility with earlier versions of **MB-System**, the user may also specify the grid format using a numeric identifier between 1-4.

```
    gridkind = 1: ASCII table
    gridkind = 2: binary file (GMT version 1 GRD file)
    gridkind = 3: netCDF file (GMT version 2 GRD file)
    gridkind = 4: Arc/Info and ArcView ASCII grid
```

Note that the following arguments are equivalent because they all produce a standard **GMT** netCDF 4-byte float grid:

```
no -G specified -Gnf -G=nf
```

Should the user wish to produce a grid in native binary floats, then the following two arguments will work:

```
-Gbf -G=bf
```

Should the user wish to produce a grid in native short int format with a scaling factor of 10, an offset of 32000, and a NaN value of 32767, then the following arguments will suffice:

```
-G=bs/10/32000/32767
```

If any of the **GMT** output formats are specified, then **mbgrid** also outputs shellscripts which run **GMT** programs to provide preliminary color fill maps of the gridded data. These shellscripts are generated using the **mbm grdplot** macro.

If *gridkind* is 4, =ei, or =ef, the output grids will be in the ESRI ASCII grid format. Arc/Info ASCII grids use "square" bins, meaning that the longitude and latitude grid cell spacings must be identical. Thus, whenever these options are used, the -**E** option must also be used in a way which ensures equal grid cell spacings (see the -**E** documentation above). Default: *gridkind* = "=nf".

- **–H** This "help" flag cause the program to print out a description of its operation and then exit immediately.
- -I datalist

Sets the filename of the file containing a list of the input swath sonar data files and their formats. In the *datalist* file, each data file should be followed by a data format identifier, e.g.:

```
datafile1 11 datafile2 24
```

This program uses the **MBIO** library and will read 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. A format identifier of 0 indicates that the file contains lines of (lon, lat, depth) triples which can be read in free format.

An input datafile may be accompanied by a "fast bathymetry" or "fbt" file. An "fbt" file contains only swath bathymetry information in a compact format (format 71), and is thus quick to read. The "fbt" fine naming convention is to add the ".fbt" suffix to the original swath data filename. In the event that a bathymetry or topography grid is being generated, **mbgrid** will attempt to read an "fbt" file in lieu of the original data. Default: *datalist* = datalist.mb-1

-J projection By default, mbgrid generates grids in Geographic coordinates, meaning that position is defined in longitude and latitude using the WGS84 geographic coordinate system. The −J option can be used to specify an alternate, projected coordinate system (PCS). When a PCS is used, position will be defined in eastings and northings (meters) relative to the origin of the particular PCS. Universal Transverse Mercator is the most commonly used PCS in the oceanographic community, but mbgrid supports a large number of other PCS's as well. The underlying projection functions derive from the PROJ.4 library written by Gerald Evenden, then of the U.S. Geological Survey.

The *projection* argument for the $-\mathbf{J}$ option can be either a PCS identifier from the projection definition list provided at the end of this manual page, or simply $-\mathbf{J}U$ to specify using UTM in whatever zone is appropriate for the grid bounds specified with the $-\mathbf{R}$ option.

For instance, to fully specify a particular northern UTM zone, set *projection* = UTMXXN where XX gives the UTM zone (defined from 01 to 60). As an example, a northern UTM zone 12 projection can be specified using -JUTM12N. Southern UTM zones are specified as UTMXXS. The European Petroleum Survey Group (EPSG) has defined a large number of PCS's used worldwide and assigned number id's to each; one can also specify the northern UTM zone 12 projection using its EPSG designation, or -Jepsg32612. When the projected coordinate system is fully specified by the -J option, then the grid bounds may be specified using -R in either longitude and latitude or in eastings and northings.

Alternatively, one may indicate a UTM projection without specifying the zone by using $-\mathbf{J}U$. In this case, the UTM zone will be inferred from the midpoint of the specified longitude and latitude bounds, and then the longitude and latitude bounds given with the $-\mathbf{f}\mathbf{R}$ option are translated to UTM eastings and northings.

All grids and mosaics produced by **MB-System** programs contain identifiers that are recognized by the plotting macros **mbm_grdplot**, **mbm_grd3dplot**, and **mbm_grdtiff**. These plotting macros automatically use a linear map projection whenever they encounter grids and mosaics that are already in a projected coordinate system. Also, the program **mbgrdtiff** automatically inserts the appropriate projection information into the GeoTIFF images it generates. As a result, images generated by **mbgrdtiff** will be properly georeferenced when they are imported into GIS software.

-K background

Enables filling in all undefined grid cells with bathymetry or topography from a global or regional database. If raster data have been locally made available through the **GMT** program **grdraster**, these can be accessed by specifying *background* as the **grdraster** dataset id number (e.g. -K4 – note that **grdraster** datasets are numbered starting at 1). Users can also use data in GMT grids as a background (including grids generated by **mbgrid**) by specifying *background* as the file path to the desired grid (e.g. -K/usr/local/share/globaltopo.grd).

-L lonflip

Sets the range of the longitude values returned. If lonflip=-1 then the longitude values will be in the range from -360 to 0 degrees. If lonflip=0 then the longitude values will be in the range from

-180 to 180 degrees. If lonflip=1 then the longitude values will be in the range from 0 to 360 degrees. Default: lonflip=0.

- -M Causes two additional grids to be output. One is a grid containing the standard deviation of the data within each grid cell relative to the grid value, the other contains the number of data points in each grid cell. This option is ignored when the minimum or maximum filter gridding algorithms are used (see the -F option).
- -N Causes grid cells with no data and no interpolation to be set to a value of NaN instead of the default value of 99999.9. The NaN value is expected by **GMT** programs such **grdview**.
- -O root

Sets the character string to be used as the root of the output filenames. For example, if the grid is output as a **GMT** version 2 GRD format (netCDF) file (the default), then its filename is "root.grd". If the -GI option is used to specify an ascii format grid, then the output grid filename will be "root.asc". If the -GI option is used to specify a version 1 GRD format (binary) grid, then the output grid filename will be "root.grd1". If the output grid is in the **GMT** version 2 GRD format, a shellscript which will allow the contents of the grid to viewed using **GMT** programs is also output with the filename "root.grd.cmd".

- $-\mathbf{P}$ pings Sets the ping averaging of the input data. If pings > 0, then that number of input pings will be averaged to produce one output ping. If pings = 0, then the ping averaging will automatically be done so that the along-track ping spacing is equal to the across-track beam spacing. Default: pings = 1.
- **-Q** Normally, bathymetry or topography data is gridded in meters. If this option is used, bathymetry or topography data is gridded in feet.
- -R west/east/south/north

factor

The first form sets the longitude and latitude bounds of the output grid. By default (if the -**R**west/east/south/north option is not specified) the program will set the grid bounds to be the area encompassing all of the data in the input files. The second form (-**R**factor) expands the automatically calculated bounds by the multiplicative factor. The value factor must be greater than one; if factor = 1.1 then the grid bounds will be expanded to the east and west by an amount 0.05 times the data bounds east-west extend and to the north and south by an amount 0.05 times the data bounds north-south extent. If the user uses the-**E** option to set the grid spacing, then the dimensions will be calculated from the grid bounds and spacing. In these circumstances rounding errors will usually require that the eastern and northern bounds be adjusted to fit exactly with the grid dimensions and spacing. Default: If the -**R**west/east/south/north option is not specified, the program will set the grid bounds to be the area encompassing all of the data in the input files.

-S speed

Sets the minimum speed in km/hr (5.5 kts \sim 10 km/hr) allowed in the input data; pings associated with a smaller ship speed will not be output. Default: speed = 0.

-T tension

Sets the *tension* value used in the thin plate spline interpolation.

A *tension* of 0 gives a minimum curvature surface with free edges; this is a pure Laplacian solution. A nonzero *tension* tends to suppress spurious oscillations and flatten the interpolation toward the edges; a *tension* of infinity yields a pure thin plate spline solution. The *tension* must be zero or greater. Default: tension = 0.0 (minimum curvature solution).

-U time

Forces **mbgrid** to avoid averaging overlapping swaths by ignoring the data from later swaths. "Later" data is identified using the *time* value. The time of the first data point is saved for each bin in the grid; any other data points which are more than *time* minutes before or after the initial data point in the relevant bin are ignored. If *time* is negative, the last data in a bin (within the time lag criterea) will be saved and used instead of the first data.

- **-V-** Normally, **mbgrid** prints out information regarding its controlling parameters during execution; the **-V** option causes the program to also print out statements indicating its progress.
- -W scale

Sets the width of the gaussian weighting function in terms of the grid spacing. The distance to the 1/e point of the weighting function is given by half of the grid spacing times *scale*. Default: *scale* = 1.0

-X extend

Extends the size of the internal grid so that the output grid is a subset from the center of a larger grid. This allows data outside the output grid to guide the spline interpolation of data gaps which happen to lie at the edge of the output grid. The amount of extension is *extend* times the grid width/height to each side. Thus, if extend=1.0, then the internal grid will have dimensions three times the output grid. Default: extend=0.0

−Y *shiftx/shifty*

This option shifts the location of the output grid bounds by *shiftx* meters east and *shifty* meters north. Default: shiftx = shifty = 0.0

EXAMPLES

Suppose you want to grid some Hydrosweep data in six data files over a region with longitude bounds of 139.9W to 139.65W and latitude bounds of 9.7S to 9.45S. To get a 110 m grid spacing, you need a grid dimensions of 251 (x or longitude) and 251 (y or latitude). First, create a datalist file using a text editor which contains the data filenames followed by the appropriate format identifier:

d123e.mb24 24 d126e.mb24 24 d128e.mb24 24 d129e.mb24 24 d130e.mb24 24 d131e.mb24 24

Then, run **mbgrid** as follows:

```
mbgrid -R220.1/220.35/-9.7/-9.45 -D251/251 \ -L1 -C251 -N \ -Idatalist -Ourville_int -V
```

By specifying a clipping dimension of 251 we insure that the grid will be filled in through spine interpolation even in the areas not covered by data. The output looks like:

Program MBGRID MB-system Version 4.5

MBGRID Parameters: List of input files: datalist Output fileroot: urville_int Input Data Type: Bathymetry

Gridding algorithm: Gaussian Weighted Mean

Grid dimensions: 251 251

Grid bounds:

Longitude: 220.1000 220.3500 Latitude: -9.7000 -9.4500 Working grid dimensions: 251 251 Working Grid bounds:

Longitude: 220.1000 220.3500 Latitude: -9.7000 -9.4500

Input data bounds:

Longitude: 219.8500 220.6000 Latitude: -9.9500 -9.2000

Longitude interval: 0.001000 degrees or 109.778801 m Latitude interval: 0.001000 degrees or 110.605002 m

Gaussian filter 1/e length: 0.055096 km

Spline interpolation applied with clipping dimension: 251 Spline tension (range 0.0 to 1.0): 100000000000.000000

Grid format 3: GMT version 2 grd (netCDF) NaN values used to flag regions with no data

MBIO parameters:
Ping averaging: 1
Longitude flipping: 1

Speed minimum: 0.0 km/hr

29075 data points processed in d123e.mb8 0 data points processed in d125e.mb8 98175 data points processed in d126e.mb8 68637 data points processed in d128e.mb8 20703 data points processed in d129e.mb8 80372 data points processed in d130e.mb8

55620 data points processed in d131e.mb8

352582 total data points processed

Making raw grid...

Doing spline interpolation with 53513 data points...

Total number of bins: 63001 Bins set using data: 53513 Bins set using interpolation: 9488

Bins not set:

Maximum number of data in a bin: 65

Minimum value: 504.93 Maximum value: 3405.75 Minimum sigma: 0.14060 Maximum sigma: 275.53399

Outputting results...

executing mbm_grdplot...

mbm_grdplot - Iurville_int.grd - G1 - C - D - V - L"File urville_int.grd - Bathymetry Grid:Depth (m)"

Program Status:

Plot Style:

Color Fill Contours

Horizontal Color Scale

Input Files:

Data GRD File: urville_int.grd

Intensity GRD List File:

Output Files:

Output plot name root: urville_int.grd Color palette table: urville_int.grd.cpt Plotting shellscript: urville_int.grd.cmd Plot file: urville_int.grd.ps

Plot Attributes:

Plot width: 6.5000
Plot height: 6.5489
Page size: a
Page width: 8.5
Page height: 11
Projection: -Jm26

Axes annotation: 5m/5m:."File urville_int.grd – Bathymetry Grid":

Orientation: portrait Number of colors: 11

Color Palette: Haxby Colors

Colors reversed

Grid Data Attributes:

Longitude min max: 220.1000 220.3500 Latitude min max: -9.7000 -9.4500 Data min max: 504.9 3406

Primary Grid Plotting Controls:

Contour control: 100

 Color start datum:
 350.000000

 Color end datum:
 3850.000000

 Color datum interval:
 350.000000

GMT Default Values Reset in Script:

PAPER_WIDTH 8.5
ANOT_FONT Helvetica
LABEL_FONT Helvetica
HEADER_FONT Helvetica
ANOT_FONT_SIZE 8

LABEL_FONT_SIZE 8 HEADER_FONT_SIZE 10

PAGE_ORIENTATION LANDSCAPE COLOR_BACKGROUND 0/0/0

COLOR_FOREGROUND 255/255/255

COLOR_NAN 255/255/255

Plot generation shellscript <urville_int.grd.cmd> created.

Instructions:

Execute <urville_int.grd.cmd> to generate Postscript plot <urville_int.grd.ps>. Executing <urville_int.grd.cmd> also invokes xpsview to view the plot on the screen.

Done.

The names of the output files are based on the root character string specified using the $-\mathbf{O}$ option. Since the grid is output as a netCDF GRD format file, its filename is "urville_int.grd"; a shellscript which will allow the contents of the grid to viewed using **GMT** programs is also output with the filename "urville_int.grd.cmd".

Suppose that one wants to grid the same data considered above using the median filtering scheme instead of the default Gaussian weighted mean scheme and also outputting grids of the data density and standard deviation values. The following will suffice:

```
mbgrid -R220.1/220.35/-9.7/-9.45 -D251/251 \ -L1 -C251 -N \ -Idatalist -Ourville_int -F2 -M -V
```

SEE ALSO

```
mbsystem(1), mbmosaic(1), mbm_grid(1), mbm_grd2arc(1)
```

BUGS

The options for this program have grown a bit complicated. If you have other problems, please let us know.

APPENDIX 1: PROJECTED COORDINATE SYSTEM IDENTIFIERS

The following is a list of the projected coordinate systems (PCS's) that are supported by MB-System. The full PCS definitions are found in the file mbsystem/share/Projections.dat. These definitions are in the **PROJ.4** format and derive from the **PROJ.4** 4.6.1 distribution obtained from http://trac.osgeo.org/proj/ in September 2008. The proj library source code has been incorporated unchanged into the MB-System package.

The first item on each line is the PCS identifier inside brackets, such as <UTM10N> or <epsg32749>. To specify using one of these PCS's, use the **–J** option, e.g. **–J** *UTM10N* or **–J** *epsg32749*.

```
Standard Universal Transverse Mercator (UTM)
 and Universal Polar Stereographic (UPS)
 projected coordinate systems for MB-System
______
<UTM01N> : WGS 84 / UTM zone 1N
<UTM02N>: WGS 84 / UTM zone 2N
<UTM03N> : WGS 84 / UTM zone 3N
<UTM04N>: WGS 84 / UTM zone 4N
<UTM05N> : WGS 84 / UTM zone 5N
<UTM06N>: WGS 84 / UTM zone 6N
<UTM07N>: WGS 84 / UTM zone 7N
<UTM08N>: WGS 84 / UTM zone 8N
<UTM09N> : WGS 84 / UTM zone 9N
<UTM10N> : WGS 84 / UTM zone 10N
<UTM11N>: WGS 84 / UTM zone 11N
<UTM12N> : WGS 84 / UTM zone 12N
<UTM13N>: WGS 84 / UTM zone 13N
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```

Listing of State Plane North American Datum Zones

MB-System projection ids are the zone number prefixed by either "nad27sp" or "nad83sp"

NGS zone number				
State and zone	1927 198			
Alabama east				
Alabama west	102	102		
Alaska zone no. 1	5001	5001		
Alaska zone no. 2	5002	5002		
Alaska zone no. 3	5003	5003		
Alaska zone no. 4	5004	5004		
Alaska zone no. 5	5005	5005		
Alaska zone no. 6	5006	5006		
Alaska zone no. 7	5007	5007		
Alaska zone no. 8	5008	5008		
Alaska zone no. 9	5009	5009		
Alaska zone no. 10	5010	5010		
American Samoa				
Arizona central	202	202		
Arizona east	201	201		
Arizona west	. 203	203		
Arkansas north	301	301		
Arkansas south	302	302		
California I	401	401		
California II	402	402		
California III	403	403		
California IV	404	404		
California V	405	405		
California VI	406	406		
California VII				
Colorado central		502		
Colorado north	501	501		
Colorado south	503	503		
Connecticut		600		
Delaware	700	700		
Florida east	901	901		
Florida north	903	903		
Florida west	902	902		
Georgia east				
Georgia west		1002		
Guam Island	5400	1002		
Hawaii 1	5101	5101		
Hawaii 2		5101		
Hawaii 3		5102		
Hawaii 4		5103		
Hawaii 5		5104		
Idaho central		1102		
Idaho east		1102		
Idaho west				
Illinois east 1		1103		
		1201		
Illinois west		1202		
Indiana east	1301	1301		

Indiana west		
Iowa north	. 1401	1401
Iowa south		
Kansas north	1501	1501
Kansas south	1502	1502
Kentucky north	1601	1601
Kentucky south	1602	1602
Louisiana north	1701	1701
Louisiana offshore	1703	1703
Louisiana south		
Maine east	. 1801	1801
Maine west	1802	1802
Maryland	. 1900	1900
Massachusetts island		
Massachusetts mainland		
Michigan central/l		
Michigan central/m		
Michigan east	2101	old
Michigan north	2111	2111 current
Michigan south	2113	2113 current
Michigan west	2103	old
Minnesota central	2202	2202
Minnesota centrar		
Minnesota south		
Mississippi east		
Mississippi west Missouri central	2402	2302
Missouri east		
Missouri west		
Montana		00
Montana central		
Montana north		
Montana south		0.0
Nebraska		00
Nebraska north		
Nebraska south		
Nevada central		
Nevada east		2701
Nevada west		2703
New hampshire		2800
New jersey		2900
New mexico central	300	2 3002
New mexico east	3001	3001
New mexico west	3003	3 3003
New york central	3102	3102
New york east		
New york long island		
New york west		
North carolina		3200
North dakota north		3301
North dakota south		
Ohio north		3401
Ohio south		3402
Oklahoma north		

Oklahoma south 3502 3502				
Oregon north				
Pennsylvania north				
Pennsylvania south				
Puerto Rico, Virgin Islands 5201 5200				
Rhode Island 3800 3800				
South Carolina				
South Carolina north 3901				
South Carolina south 3902				
South Dakota north 4001 4001				
South Dakota south 4002 4002				
Tennessee 4100 4100				
Texas central 4203 4203				
Texas north 4201 4201				
Texas north central 4202 4202				
Texas south 4205 4205				
Texas south central 4204 4204				
Utah central				
Utah north 4301 4301				
Utah south				
Vermont				
Virgin Islands, St. Croix 5202				
Virginia north 4501 4501				
Virginia south				
Washington north 4601 4601				
Washington south				
West Virginia north 4701 4701				
West Virginia south 4702 4702				
Wisconsin central				
Wisconsin north				
Wisconsin south				
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Wyoming east central 4902 4902				
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Wyoming west central 4903 4903				

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Various Non-U.S. Coordinate Systems,
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<madagascar> : Laborde grid for Madagascar

<new_zealand> : New Zealand Map Grid (NZMG) - Projection unique to N.Z. so all factors fixed

Secondary grids DMA TM8358.1, p. 4.3

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<costa-s>: Costa Rica Sud
<cuba-n>: Cuba Norte
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<haiti> : Haiti

<hond-n> : Honduras Norte <hond-s> : Honduras Sud

<levant> : Levant

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<palestine> : Palestine
<panama> : Panama

other grids in DMA TM8358.1

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<malay>: West Malaysian RSO Grid

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<ceylon> : Ceylon Belt

<irish> : Irish Transverse Mercator Grid

<neiez> : Netherlands East Indies Equatorial Zone

<n-alger> : Nord Algerie Grid

<n-maroc>: Nord Maroc Grid

<n-tunis> : Nord Tunisie Grid

<s-alger> : Sud Algerie Grid

<s-maroc> : Sud Maroc Grid

<s-tunis> : Sud Tunisie Grid

Gauss Krueger Grids for Germany

<gk2-d> : Gauss Krueger Grid for Germany

<gk3-d> : Gauss Krueger Grid for Germany

<gk4-d> : Gauss Krueger Grid for Germany