

**Subject:** Re: RAPID code for creating gridded profiles

**Date:** Monday, 11 July 2016 10:05:32 Greenwich Mean Time

**From:** Moat, Ben

**To:** Stuart Cunningham

**CC:** McCarthy, Gerard D., Smeed, David A.

Hi Stuart,

Hope every things going ok.

I've attached the eastern boundary gridding code. (eb\_merging\_v2\_2015.m)

You call it via:

```
function [MERG_REVISION,MERG_AUTHOR,MERG_DATE] = ...
```

```
eb_merging_v2_2012(TS_CLIMATOLOGY,TS_CLIMATOLOGY_TP,TS_CLIMATOLOGY
_NAME,EB_funct,EB_FILE,jg_end)
```

Info on what you are passing into the function are in the header of the script.

An example of what we pass in:

```
%-----
%      7) EASTEN BOUNDARY MERGING
%-----
%      a) Define the YEAR the eastern boundary merging is taken
%      to. Used in the script name (EB_merg)
%              EB_YEAR = '2015';
%      b) define the name of the eastern boundary merging script
%      (e.g. v2)
%              EB_VERSION = 'v2'; % used in the
script name (EB_merg)
%      c) define the climatology to use
%              EB_TS_CLIMATOLOGY = 'slope'; % deep or slope
%      d) define the type of climatology
%              EB_TS_CLIMATOLOGY_NAME = 'hbase'; % argo or hbase
%      e) define either the ANNUAL,MONTHLY or SEASONAL
climatology
%              EB_TS_CLIMATOLOGY_TP = 'seasonal'; % 'annual'
or 'monthly'
%      f) define the end time of the calculation
%      passed to the merging script (e.g.
eb_merging_v2_2012_annual.m )
%              EB_END_YEAR = 2015;
%              EB_END_MONTH = 10;
%              EB_END_DAY = 26;
```

You will need a climatology (described in the header of the script).

The eb\_merging\_v2\_2015.m calls the function

```
[TGfs, SGfs] = con_tprof0_monthly(Tfss, Sfss, Pfss, pg', GTV(:,2),  
int_step, TSclim,TS_CLIMATOLOGY, ...  
  
TS_CLIMATOLOGY_NAME );
```

To do the vertical gridding (attached).

The way we calculate the AMOC hasn't really changed since you were here.

What has changed is the climatology - We now use hydrobase.

The scripts and functions are now run by a wrapper script which controls the boundary gridding and then goes on to calculate the AMOC.

We use subversion to keep track of the version control of the functions and scripts.

Any problems get in touch,

Ben

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**From:** Stuart Cunningham <[Stuart.Cunningham@sams.ac.uk](mailto:Stuart.Cunningham@sams.ac.uk)>

**Date:** Monday, 11 July 2016 08:24

**To:** Ben Moat <[ben.moat@noc.soton.ac.uk](mailto:ben.moat@noc.soton.ac.uk)>

**Subject:** RAPID code for creating gridded profiles

Ben,

We have started to look at grid ding our mooring data. I have older code here on board that does grid ding on individual moorings; I think there was another bit of code for joining those grids in the vertical but I don't seem to have that. However, I remember that all this code was re-written so that grid ding of adjacent moorings for a single profile can be done in one step; and also that moorings from different deployments can all be handled together?

I am remembering correctly?

If so can you email me the files please.

Many thanks,  
Stuart

At sea on DY053; recovering our second year of OSNAP moorings

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