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 where 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

From: Stuart Cunningham <Stuart.Cunningham@sams.ac.uk>
Date: Monday, 11 July 2016 08:24
To: Ben Moat <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 in 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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