

[Reply to Topical Editor's comments]

We are very grateful to the topical editor for the useful comments and the decision "publish subject to technical corrections". Below we provide point-by-point responses to the comments.

Comments to the author:

I run through the supplement and compiled and run the examples.

Notice I only succeeded in compiling them all with ifort and icc.

With gcc 8.3 I encountered the following error:

```
gcc -O3 -march=native -c mxallc.c
gcc: warning: couldn't understand kern.osversion '18.7.0'
mxallc.c:20:20: fatal error: stdlib.h: No such file or directory
#include
^
compilation terminated.
```

It seems to be indicated as a possible gcc bug.

Thank you very much for testing our source code.

The error may be because of a gcc bug, a wrong setting with gcc, or a gcc installation problem.

In my environment with gcc version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04), ispack-3.0.1 can be compiled successfully, even though the warning below appears:

```
gcc -O3 -march=native -c mxallc.c
mxallc.c: In function 'mxallc_':
mxallc.c:23:3: warning: ignoring return value of 'posix_memalign', declared with attribute
warn_unused_result [-Wunused-result]
    23 |     posix_memalign(p, 64, (size_t)((size_t)*n *8));
```

There are some minor typos:

in /Supplement_Yoshimura/Source_code/README.txt

it is written:

> cd netlib

isn't it actually:

"> cd bihar"?

In many places it is written "warer" instead of "water". Please run a search and correct all the instances.

Edit sw_dfs.F90 (shallow warer model) and adv_dfs.F90 (advection model).

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> ./sw_dfs (shallow warer model)

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> ./sw_dfs (shallow warer model)

Thank you for checking README.txt. We have corrected these typos.