

[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).**

**Edit sw\_dfs.F90 (shallow water model) and adv\_dfs.F90 (advection model).**

**> ./sw\_dfs (shallow warer model)**

**Edit sw\_dfs.F90 (shallow warer model) and adv\_dfs.F90 (advection model).**

**> ./sw\_dfs (shallow warer model)**

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