Manual of data assimilation module in WW3 and SWAN

By Jiangyu Li and Shaoqing Zhang

a) Introduction

There are two files for data assimilation module, *w3dainmd.ftn* is the initialization of data assimilation, *w3wdasmd.ftn* is the main body to computation.

**Notes:** there two files are designed following the corresponding models due to different model frameworks between WW3 and SWAN.

b) Operation

Put these two files (*w3dainmd.ftn* and *w3wdasmd.ftn*) into the source code folder (*ftn* of WW3, *sourcecode* of SWAN).

Add the module names (*W3DAINMD* and *W3WDASMD*) into the configure file (*make\_makefile.sh* of WW3, *Makefile* of SWAN) and then compile again.

**Notes:** this data assimilation module is implemented with parallel computation.