How to migrate existing IMOS-toolbox to new IMOS-toolbox

IMOS toolbox collates all information about 'global attributes' and 'variable attributes'. Therefore, it is very important to check the source files and make sure they are compliant with the conventions we are following.

To date, these files are compliant with CF 1.6, IMOS 1.4, and ICES 1.10.

1. **Global attributes**

   The global attribute information is obtained from the following files

   File name: global_attributes_timeSeries.txt
   Location: Q:\IMOS_BASOOP\IMOS-toolbox\NetCDF\template

   File names: <ship>_attributes.txt & <ship>_<channel>.txt
   Location: Q:\IMOS_BASOOP\platform

2. **Variable attributes**

   The variable attribute information is obtained from the file below

   File name: imosParameters.txt
   Location: Q:\IMOS_BASOOP\IMOS-toolbox\IMOS

3. **File name**

   Information for file name is obtained from the text file below. Note that only `<facility_code>` and `<data_code>` need to be provided. Other fields are automatically populated.

   File name: imosFileName.txt
   Location: Q:\IMOS_BASOOP\IMOS-toolbox\IMOS

How can we migrate to new IMOS toolbox?

The septs below detail how to this.

1. Download latest IMOS toolbox. Below link is currently active
   https://github.com/aodn/imos-toolbox/wiki

2. Rename existing IMOS toolbox to something sensible.

   For example: IMOS-toolbox_old_20180601
   Q:\IMOS_BASOOP

3. Now copy latest IMOS toolbox to above directory and rename as **IMOS-toolbox**

4. This will not solve our need. It is very important to update files in the new toolbox with the existing files. The files are listed below.

   - **File name:** global_attributes_timeSeries.txt
   - **File name:** imosParameters.txt
   - **File name:** imosFileName.txt
   - **File name:** depth_attributes.txt

   The easiest solution would be to copy these files from the existing toolbox and replace with the corresponding files in the new toolbox. These files are present in the locations given on the first page.

5. It was further noticed: all 'variables' were not present in the NetCDF file packaged using the **new toolbox**.

   In order to write all variables to our data, the following Matlab file should be edited at **line: 213** as given below.

   File name: exportNetCDF.m
   Location: Q:\IMOS_BASOOP\IMOS-toolbox\NetCDF

```
210        % we don't want to output any variable that doesn't have a standard
211        % IMOS parameter code in the NetCDF file
212 -      longname = imosParameters(varname, 'long_name');
213 -      if false %strcmp(longname, varname) % by default IMOS parameter code without existing entry has its code for long_name
214 -          iVarToRemove(end+1) = m;
215 -          continue;
216 -      end
```

6. We are now using the new toolbox.

Also, it is suggested to start GUI with its 'default' settings. I have seen some issues with 'last used' option. Moreover, please restart your computer, may sound funny but solved problems.

A NetCDF checker is available at: Q:\IMOS_BASOOP\netcdf_checker.m; and included in the GUI.

-Haris (06 June 2018)