Important warning about the oxygen and nutrient units labels in the WOA18 data files on the JOA Suite site versus the actual WOA18 oxygen and nutrient units

The dissolved oxygen and nutrient data used by NOAA/NODC/NCEI in the release version of WOA18 are in "mass" units (µmol/kg) as opposed to the traditional "volume" units (ml/l and µmol/l, respectively) used in past editions of the WOA. However, due to a Java OceanAtlas 'bug' uncovered during testing the WOA18 files, it was found to be necessary to artificially change the units <u>labels</u> for dissolved oxygen and nutrients to "µmol/l" even though <u>the data numbers themselves are actually in µmol/kg units</u>. No conversions are done - only the units themselves are deliberately stated wrongly in the file headers. The WOA18 .joa files on the site with the artificially 'repaired' (but in reality wrong) units names have "massx" in their file name. This situation will be rectified if/when this bug is repaired. [In other words, the WOA18 files on the site will be replaced with ones whose headers state the correct oxygen and nutrient units. The numerical values will not change.]