Supplement of

Introducing LAB60: A 1/60° NEMO 3.6 numerical simulation of the Labrador Sea

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Supplemental Figure 1: Monthly mixed layer depth as determined by the LAB60-CGRF simulation, the LAB60-DFS simulation, and ARGO observations from 2007 to the end of 2016 (2014 for LAB60-DFS). This figure highlights the justification that CGRF was inadequate to continue forcing LAB60, prompting us to restart the run in 2007 using the DFS forcing.

Supplemental Video 1: Normalized relative vorticity of the LAB60 simulation, from 1 Jan 2004 through 31 Dec 2013. Note: a few days are missing due to corrupted output files. DOI: https://doi.org/10.7939/r3-2yts-nw62

Supplemental Video 2: Convective energy of the LAB60 simulation, with a reference depth of 2000m. Video takes place from 1 Jan 2004 through 31 Dec 2013. Units are in J m$^{-3}$. Note: a few days are missing due to corrupted output files. DOI: https://doi.org/10.7939/r3-nen0-g831
Supplemental Video 3: Mixed layer depth (MLD), in meters, of the LAB60 simulation from 1 Jan 2004 through 31 Dec 2013. A red contour line shows where the ice concentration is 10%. A black contour line shows where the MLD exceeds 1000m. Note: a few days are missing due to corrupted output files. DOI: https://doi.org/10.7939/r3-m6rk-h867

Supplemental Video 4: Greenland melt passive tracer, in meters, of the LAB60 simulation. Video takes place from 1 Jan 2004 though 31 Dec 2013. Note: a few days are missing due to corrupted output files. DOI: https://doi.org/10.7939/r3-43mg-db88

Supplemental Video 5: Irminger water passive tracer, in meters, of the LAB60 simulation. Video takes place from 1 Jan 2004 through 31 Dec 2013. Note: a few days are missing due to corrupted output files. DOI: https://doi.org/10.7939/r3-zwkr-0w35

Supplemental Video 6: Labrador Sea water tracer, in meters, of the LAB60 simulation. Video takes place from 1 Jan 2004 through 31 Dec 2013. Note: a few days are missing due to corrupted output files. DOI: https://doi.org/10.7939/r3-7295-ks15