ACCESS-OM2-01, a global 0.1-degree ocean-Sea ice model for the next phase of Bluelink.

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The COSIMA consortium is developing ACCESS-OM2 (https://github.com/OceansAus/access-om2), a suite of three global coupled ocean-sea ice models at 1, 0.25 and 0.1-degree horizontal resolution. The coarser resolution(s) will be incorporated into the next generation of ACCESS climate models, whereas the 0.1-degree model will be used for OFAM4, the next generation of the OFAM ocean model underpinning the Bluelink ocean reanalysis and forecasting system. This will provide several improvements to Bluelink, including fully global coverage, sea ice, and improved vertical resolution near the surface and in the abyss. An overview of this model suite will be provided, together with an assessment of the performance of the 0.1-degree model relative to comparable models and observations.