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Abstract Title. The JRA55 Repeat Year Forcing

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The recently released Japanese 55-year Reanalysis (JRA55) sets a new gold standard for global reanalyses and is internationally recognised among the oceanography community as the product of choice for forcing ocean-sea ice models, by way of JRA55-do ("Drive Ocean"). As of yet, the JRA55-do forcing set does not have a reference year, which is a vital scientific tool for ocean-sea ice modelling. This project aims to rectify this by proposing the JRA55 “Repeat Year Forcing” (RYF), a year taken directly from the JRA55 record that has been identified as climatologically neutral. Here we describe our approach to developing the RYF, and present comparisons of global ocean-sea ice simulations evaluating this forcing set.