



Inter-comparison of extra-tropical cyclone activity in five reanalysis datasets

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This poster inter-compares extra-tropical cyclone activity in the following five reanalysis datasets: NCEP-NCAR Reanalysis (NCEP1), NCEP-DOE Reanalysis (NCEP2), NCEP CFS Reanalysis (NCEP3), ERA40 Reanalysis, and the 20th Century Reanalysis (20CRv2; ensemble of 56 runs for 1871-2008). The intercomparison includes climatology and trends in cyclone counts, track counts, intensity and lifespan, which are derived from applying an objective cyclone identification/tracking algorithm to each of the five datasets. The probability distribution of cyclones in the NCEP1, ERA40, and 20CR is also inter-compared for their common period (1958-2001) and in all five datasets in their common period (1979-2001). Effects of model/data resolution (including resolution of data used to identify/track cyclones) are discussed.