

## Re-analyses Data Sets

Name	Period: mm/yyyy	Frequency	Notes
NCEP/NCAR	01/1950 - 09/2003	6-hourly (ONDJFM)	Mailier (2006) and Renato (2009) papers
JRA25	03/1979 - 11/2009	6-hourly (12 months)	Japanese Re-analysis (Hodges)
ERA-INTERIM	03/1989 - 11/2009	6-hourly (12 months)	ECMWF Interim Re-analysis (Hodges)
NASA-MERRA	03/1979 - 11/2009	6-hourly (12 months)	NASA Modern Era Retrospective Re-analysis (Hodges)
NCEP-CFS	03/1979 - 11/2009	6-hourly (12 months)	NCEP Coupled Forecast System (Hodges)
ERA40	12/1958 - 11/2001	6-hourly (12 months)	ECMWF 40 year re-analysis

## Details

- All data sets are for the Northern Hemisphere.
- The 4 re-analyses data sets from Kevin Hodges were obtained using such filtering to obtain cyclones that lasted at least 2 days and travelled more than 1000km (mobile cyclones).
- The 4 Hodges data contain the following variables:
  1. Vorticity at the centre of the track.
  2. Max in full resolution vorticity - searched for in a 5° radius of the track centre.
  3. Minimum in mean sea level pressure (MSLP) - searched for in a 5° radius of the track centre.
  4. Max in winds - searched for in a 5° radius of the track centre.

All vorticity data is at 850hPa and winds are at 925hPa.

- The ERA40 data set contains:
  1. T42 vorticity intensity
  2. Full resolution vorticity intensity true max.
  3. Full resolution MSLP minima.
  4. Full resolution max wind speed.
  5. Full resolution vorticity intensity, straight search.
  6. Full resolution 10m wind max.