

# The Role of Intense Cyclones for Precipitation, Sea Ice and Snow Cover Distribution in the Nordic Seas

## Anomalous wet – dry OND seasons 1979-2014

1. Total precipitation ( $P_{tot}$ ) OND 1979-2014 over the Nordic Seas from ERA-Interim

2. Standardization: 
$$P_{tot}_{yr,standardized} = \frac{P_{tot}_{yr} - \mu_{P_{tot}}}{\sigma_{P_{tot}}}$$

3. Wet seasons:

- $P_{tot}_{yr,standardized} \geq +1 \text{ STD}$
- [1983, 1986, 2006, 2007, 2011, 2013]

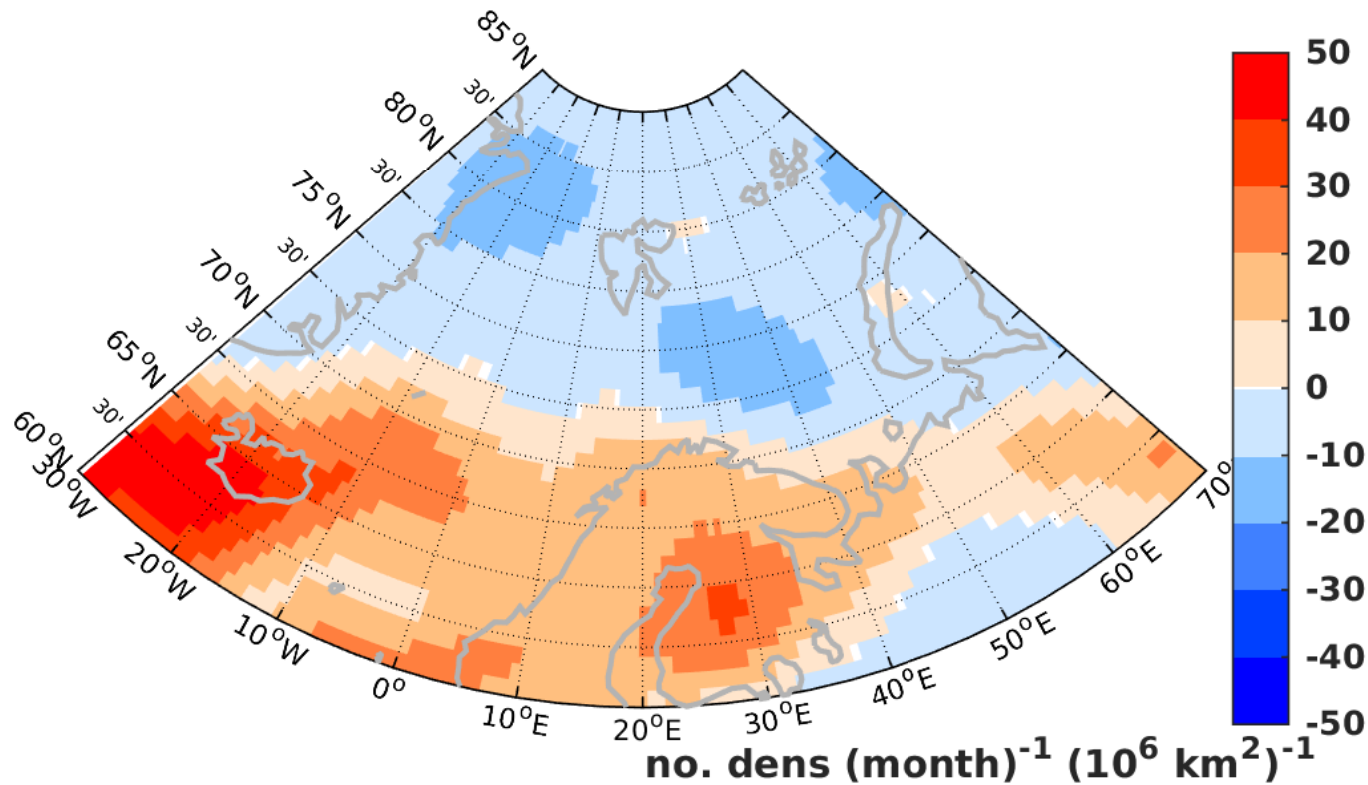
1. Dry seasons:

- $P_{tot}_{yr,standardized} \leq -1 \text{ STD}$
- [1987, 1989, 1997, 2000, 2002, 2010]

1. Cyclone tracking and statistics (TRACK)

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1. Precipitation mainly from cyclones in the North Atlantic Ocean, Norwegian and Baltic seas.
2. More Arctic cyclones in dry seasons.