Arctic Sea Level Change over the altimetry era and reconstructed over the last 60 years

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The DTU Arctic Sea level dataset.

The fraction of all possible data over 20 years (1992-2012) is shown. Left: the fraction of all data (weekly basis) from AVISO. Right: The fraction of all data in the DTU Arctic Sea level data set. In the North Atlantic, this fraction is close to 1 (all data available) whereas in the Beaufort region the fraction is close to 0 (no data) for the AVISO dataset due to the editing relative to the old CLS01 MSS. For the DTU dataset the fraction is some 10-20% indicating important Recovery of data. Below The leading eight EOFs (EOF1-EOF8) derived from satellite altimetry data between 68°N and 82°N. Besides these eight EOFs an additional EOF was introduced as a constant for the region. The scaling for the EOFs is arbitrarily set given.