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*Supplement of*

## **Decorrelation scales for Arctic Ocean hydrography – Part I: Amerasian Basin**

**Hiroshi Sumata et al.**

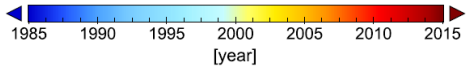
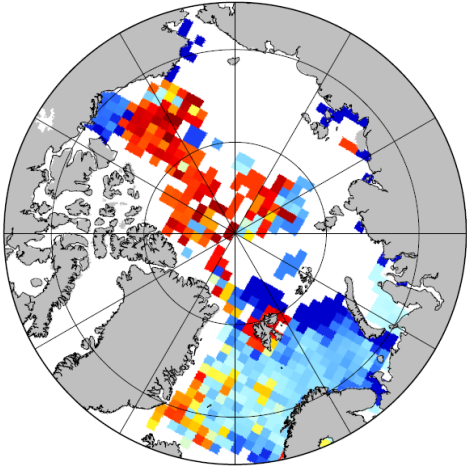
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# Representative year in each 111 x 111 km grid cell

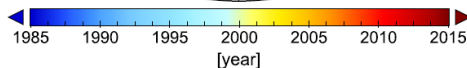
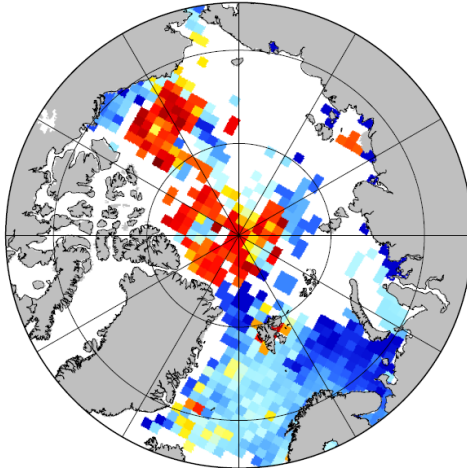
## Winter (Jan. - Mar.)

representative\_year (lev = 01, season = 1)



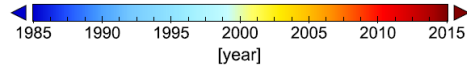
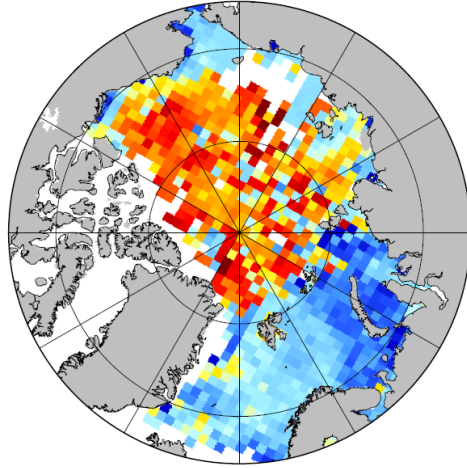
## Spring (Apr. - Jun)

representative\_year (lev = 01, season = 2)



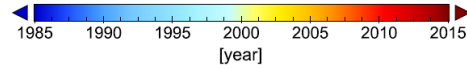
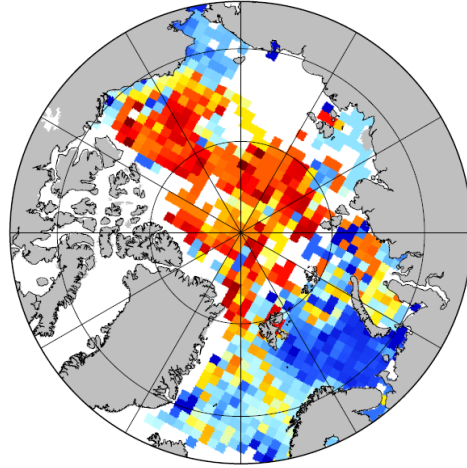
## Summer (Jul. - Sep.)

representative\_year (lev = 01, season = 3)



## Autumn (Oct. - Dec.)

representative\_year (lev = 01, season = 4)



Representative year of the data in each grid cell used as the tie point for the time-varying background mean field.