

Record high Pacific Arctic SSTs, Delayed sea ice advance, Episodic atmospheric blocking

- **R/V Mirai Arctic Expedition 2018:** successfully conducted a unique daily repeated measurements for 12 days near the **sea ice edge**. Sea ice advance from the Beaufort Sea to the Chukchi Sea was significantly delayed.
- The November monthly mean SST in the Chukchi and Bering Seas was record high. **What is the heat source ?**
- High correlation between the SSTs and the annual mean **Pacific Decadal Oscillation (PDO)** index except for 2018
- **Episodic atmospheric blocking** formed over the Bering Sea, which creates significant anomaly of **southerly wind**

AMSR2 Sea Ice con.+Sea Surf. Temp.+Snow Depth 20181115

