

# Upper-ocean vertical fluxes in the Atlantic Water inflow region North of Svalbard



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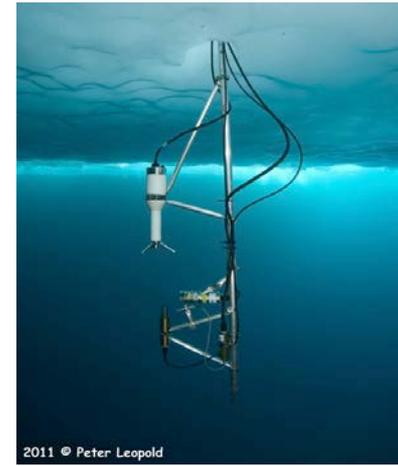


## New thin ice regime in summer;

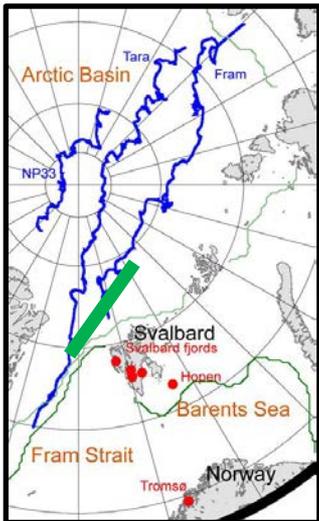
- 15% more absorption in ice and melt ponds
- 45% more transmission to ocean below

## Ice-Ocean Boundary Layer dynamics;

- Keels enhance downstream mixing by 50%
- Shallow stratification; compressed Ekman layer
- Large local variability (floe-lead) + AW depth



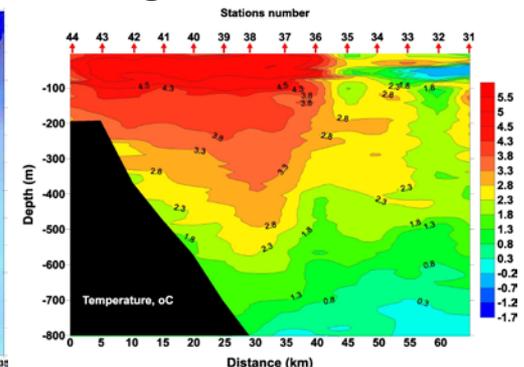
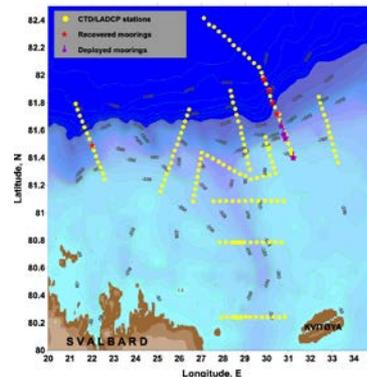
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## N-ICE2015

RV Lance will be frozen into the drift ice for 6 months

## New time series covering AW inflow



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