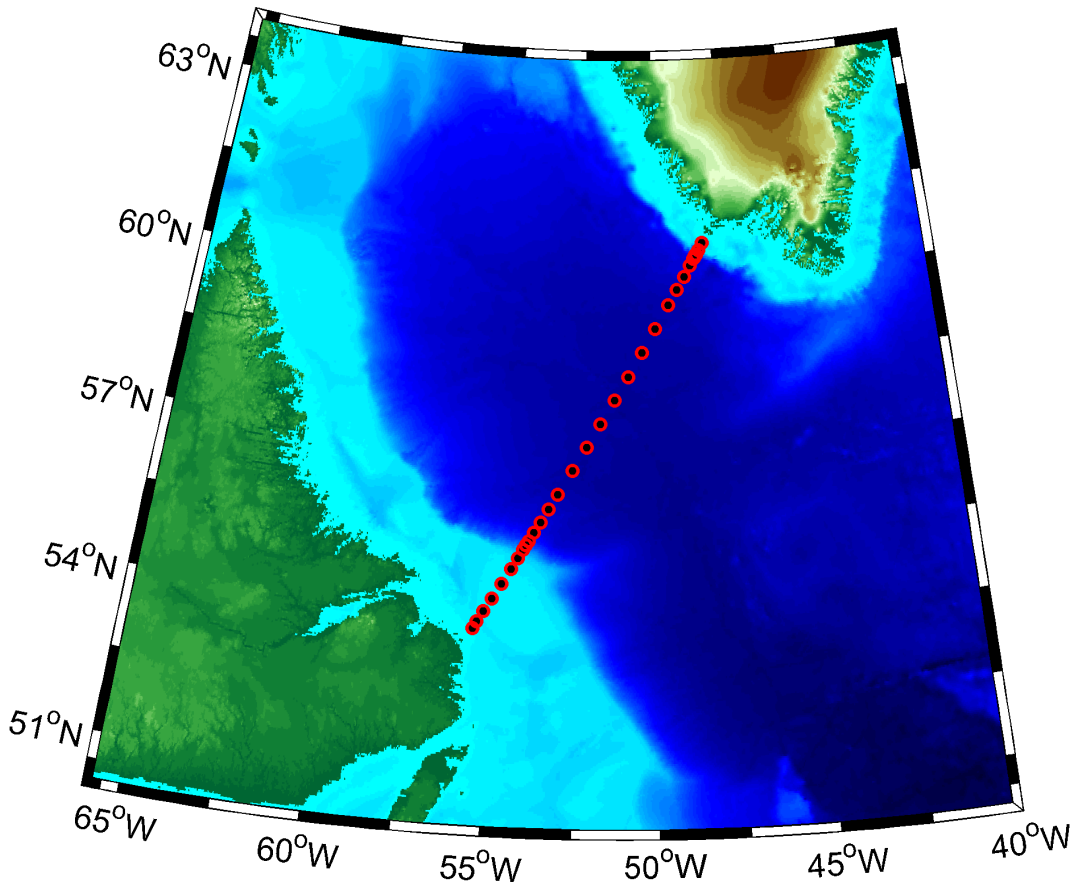


## Ocean Climate in S.A. 0 and 1

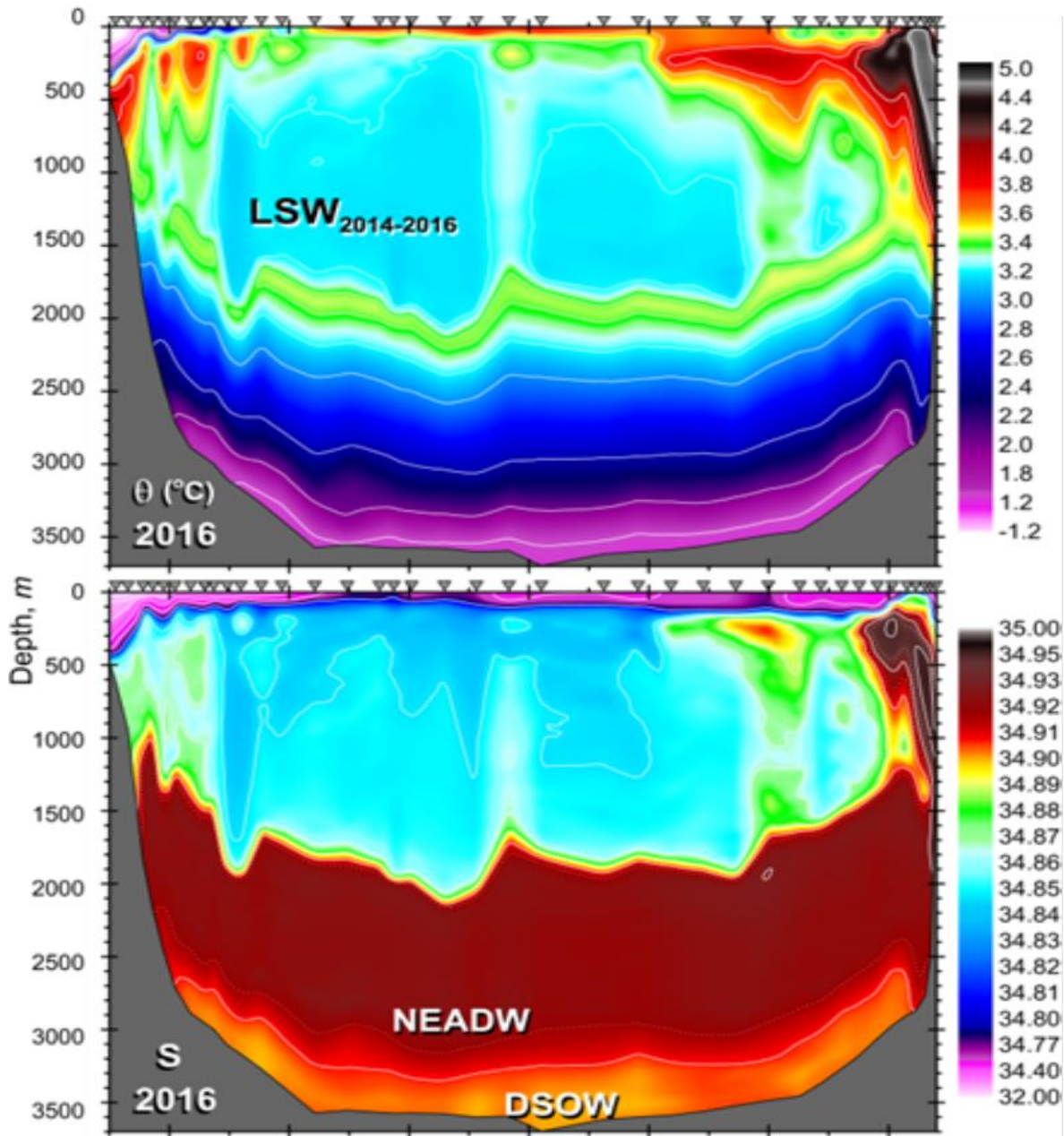
### Ocean Climate in Davis Strait and Labrador Sea.

Map showing DFO Atlantic Zone Off-Shelf Monitoring Program's stations across the Labrador Sea along the WOCE AR7W line



## Temperature and Salinity along the AR7W section in 2016

Temperature and salinity cross-sections of the Labrador Sea during 2016 show winter convective overturning reaching a maximum depth of near 2000 m, similar to that observed in the previous two years. Recent strong winter convection in the Labrador Sea is similar to that observed in the early 1990s.



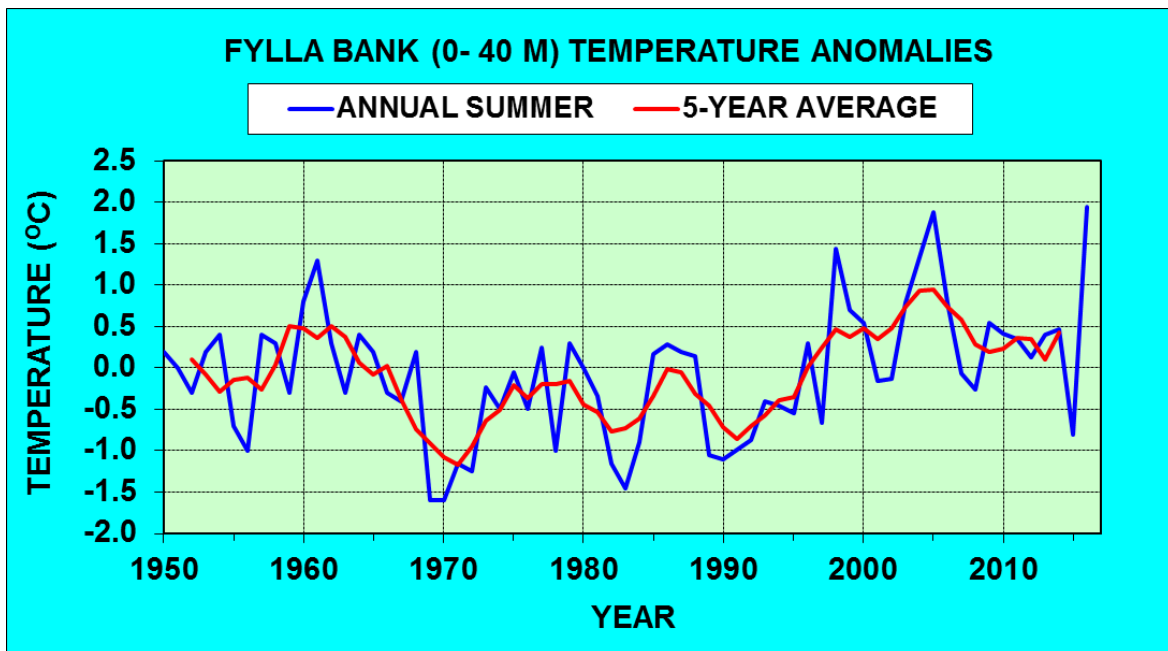
## Ocean Climate in West Greenland (S.A. 1)

West Greenland lies within an area that historically experienced warm conditions during the negative phase of the NAO. The map shows the location of standard sections and the positions of some of the stations sampled in June/July 2016 in West Greenland waters.

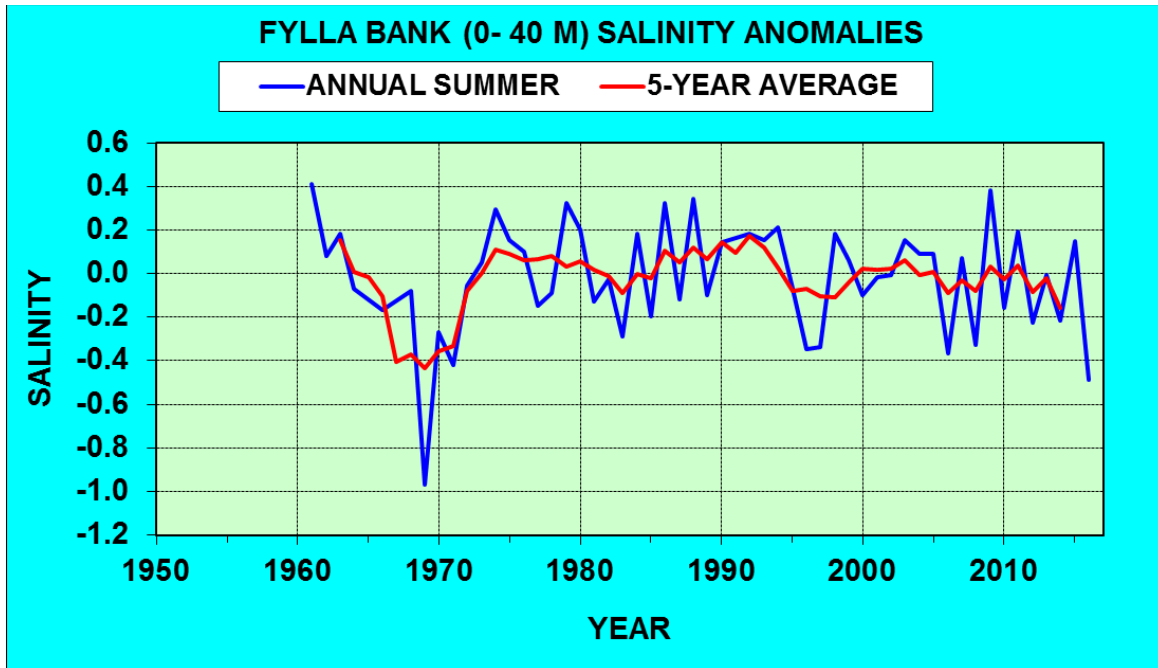


Above normal air temperatures off West Greenland, combined with advection of warm water by the West Greenland Current led to above normal ocean temperatures on the slopes of Fylla Bank west off Nuuk during 2004-2006.

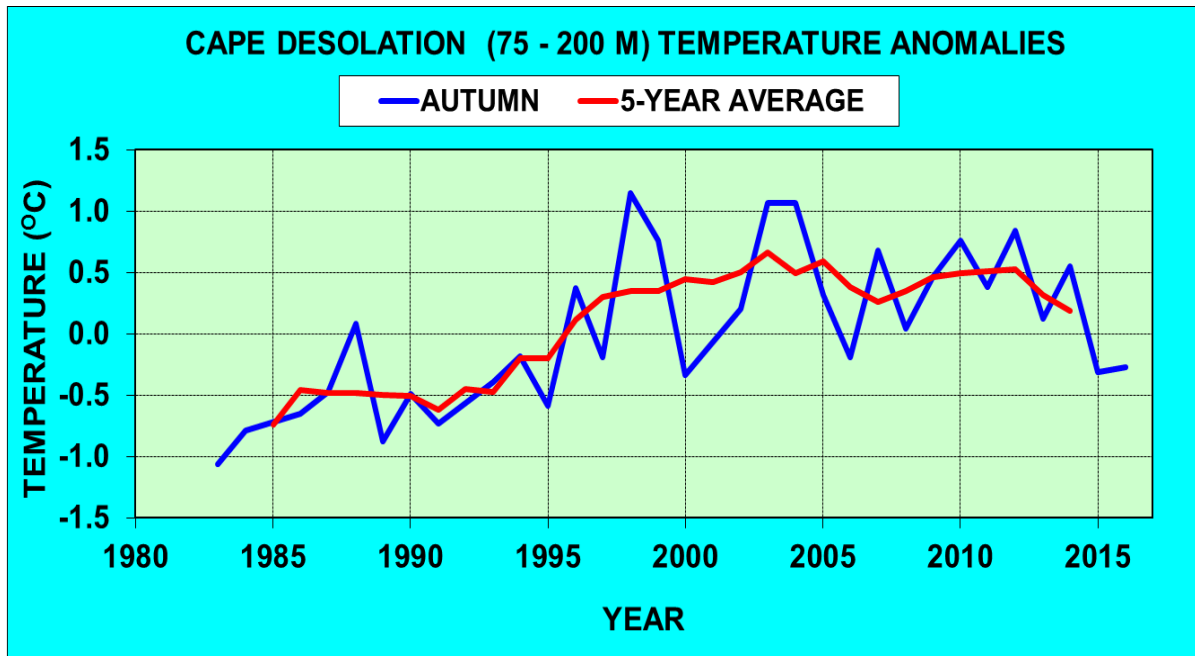
Temperatures on Fylla Bank (0-40 m depth) in June have decreased substantially over the peak in 2005 reaching 0.8°C below normal in 2015, but rebounded sharply to a record high in 2016. **Red: 5-YEAR AVG**



Salinities increased substantially in 2009 to the second highest in the record but decreased in 2010 to fresher than normal conditions. In 2015 salinities increased to about 0.15 above normal but then decreased sharply in 2016 to the 2<sup>nd</sup> lowest on record. **Red: 5-YEAR AVG**



The properties of the Irminger Sea Water (ISW) are monitored in the 75-200 m layer at Cape Desolation Station 3. In 2016, the water temperature of the ISW was 0.27°C below the long-term mean. Red: 5-YEAR AVG



The properties of the Irminger Sea Water (ISW) are monitored in the 75-200 m layer at Cape Desolation Station 3. In 2016, the salinity of the ISW was 0.08 below the long-term mean, continuing a recent downward trend.  
**Red: 5-YEAR AVG**

