

Outcome of discussion in group 3 (“Synthesis and Mechanisms of AMOC”)

- 1. Assess our ability to detect climate variability and changes related to AMOC, for such quantities as transports and storage of heat and freshwater/salinity, air-sea fluxes, SSH, SST, and sea ice.**
- 2. What are the accuracies required to detect changes in climatologically important quantities (e.g., heat & freshwater content) for interannual to decadal time scales)?**
- 3. Evaluate the benefit of enhancement in full-depth temperature and salinity measurements (e.g., full-depth Argo) to improving the estimates of climatically important quantities and the initialization of decadal prediction.**
- 4. Enhance the efforts for synthesis, fingerprint detection, and mechanism studies.**
- 5. Develop and apply advanced modeling/estimation tools to address the above issues.**
- 6. Emphasize the important role of satellite observations; assess the risks of losing these observations; identify future need.**