





Objectives of Kuroshio Extension System Study (KESS)

- Understand SST variability on weekly-to-interannual timescales (atmos. forcing, re-emergence, advection, eddy fluxes...)
- Provide a midlatitude reference site of surface heat fluxes.
- □ Clarify formation/transformation of Subtropical Mode Water
- Clarify formation processes of WBC recirculation gyre(s)
- Identify cross-frontal processes of mass, heat, salt, and PV
- □ Clarify vertical coupling (barotropitization) processes intrinsic to baroclinic instability
- □ Assess SST's influence upon the overlying PBL







































