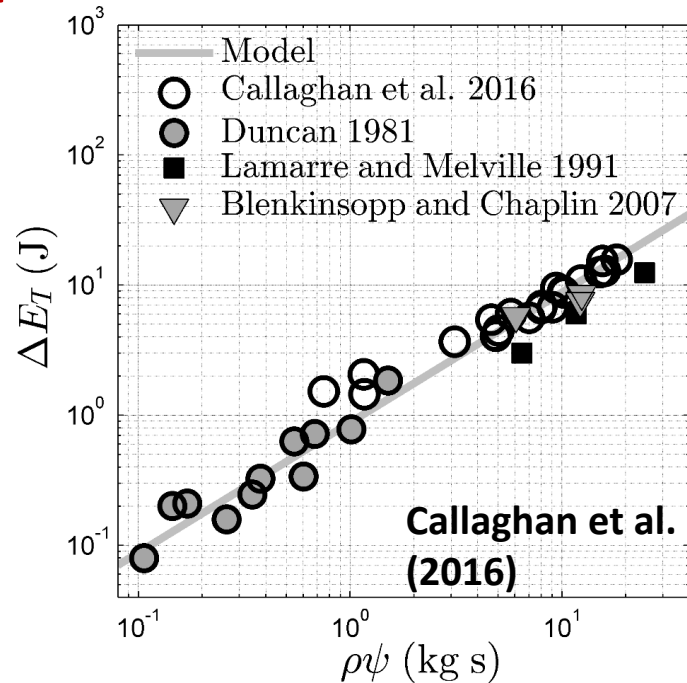


A

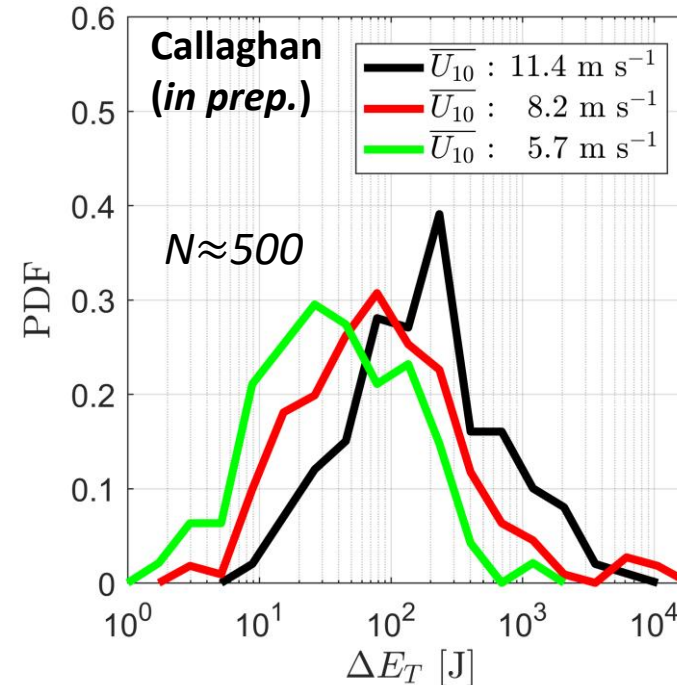
Laboratory Results



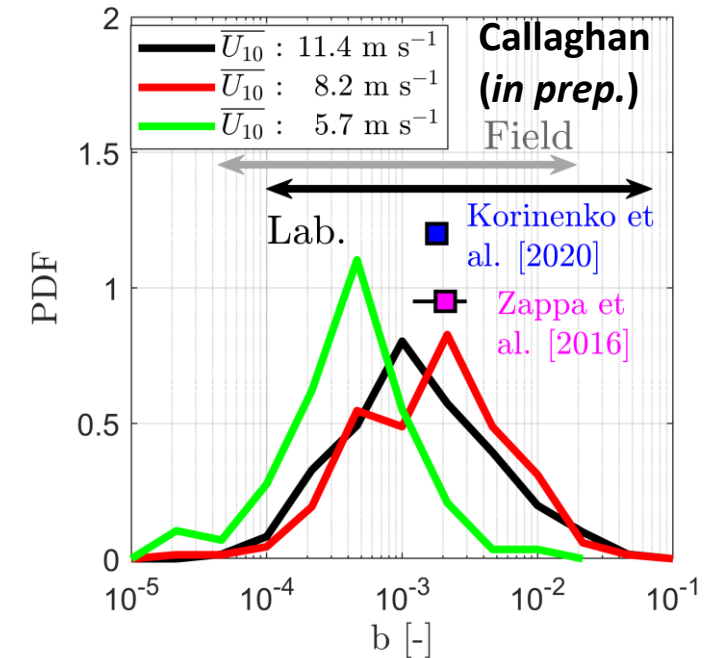
- ψ is the volume-time-integral of the air-water mixture generated by a whitecap during active breaking.
- ψ can be estimated with sea surface images of whitecap foam as explained in Callaghan et al. [2016].

B

Application of Lab. Results To Individual Oceanic Whitecaps



- Distributions of individual whitecap energy dissipation for three different wind speeds in the North Atlantic.
- The energy dissipation data are lognormally distributed with values ranging from 1 J to 10 kJ.



- Following the work of Duncan [1981], the breaking strength parameter, b , can now be estimated for individual oceanic whitecaps.