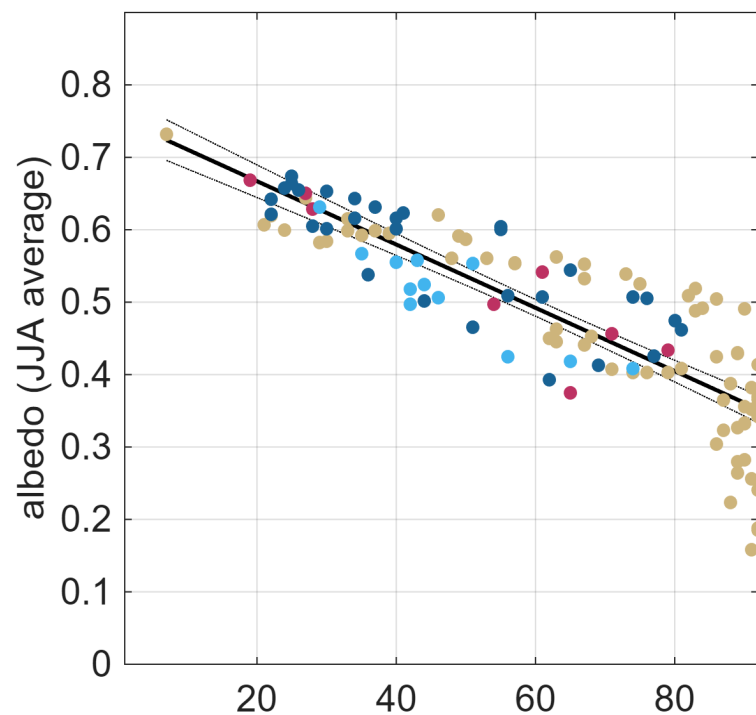
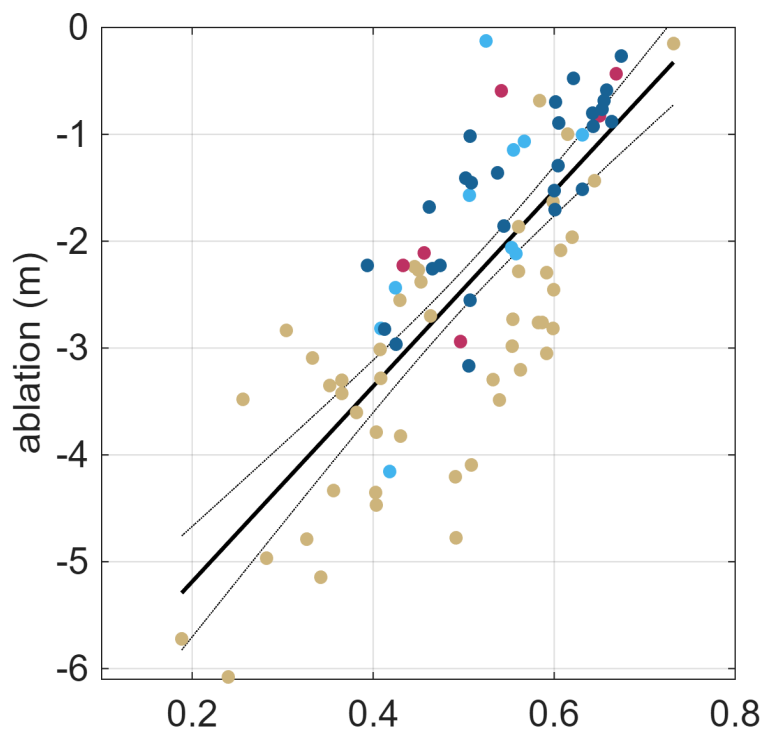


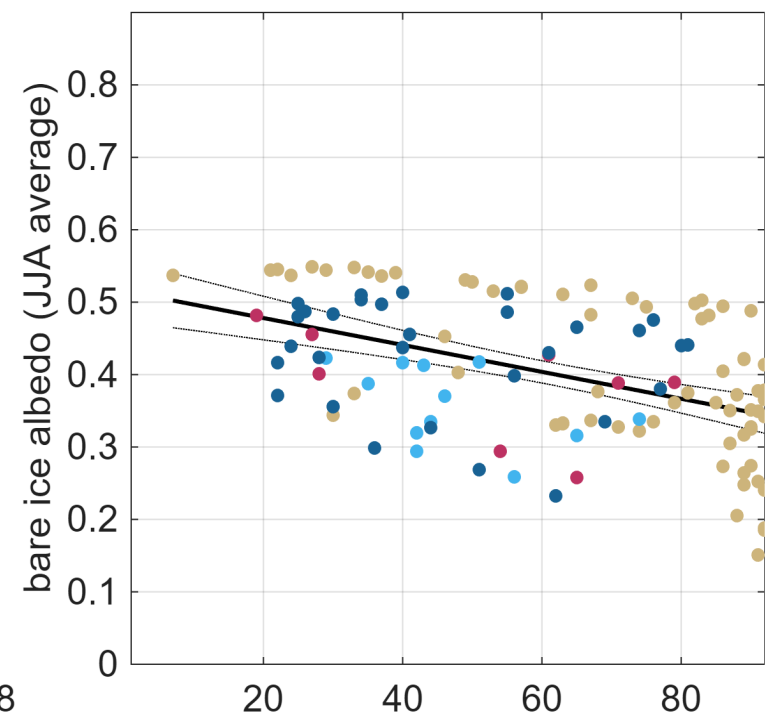
● G ● L ● M ● U



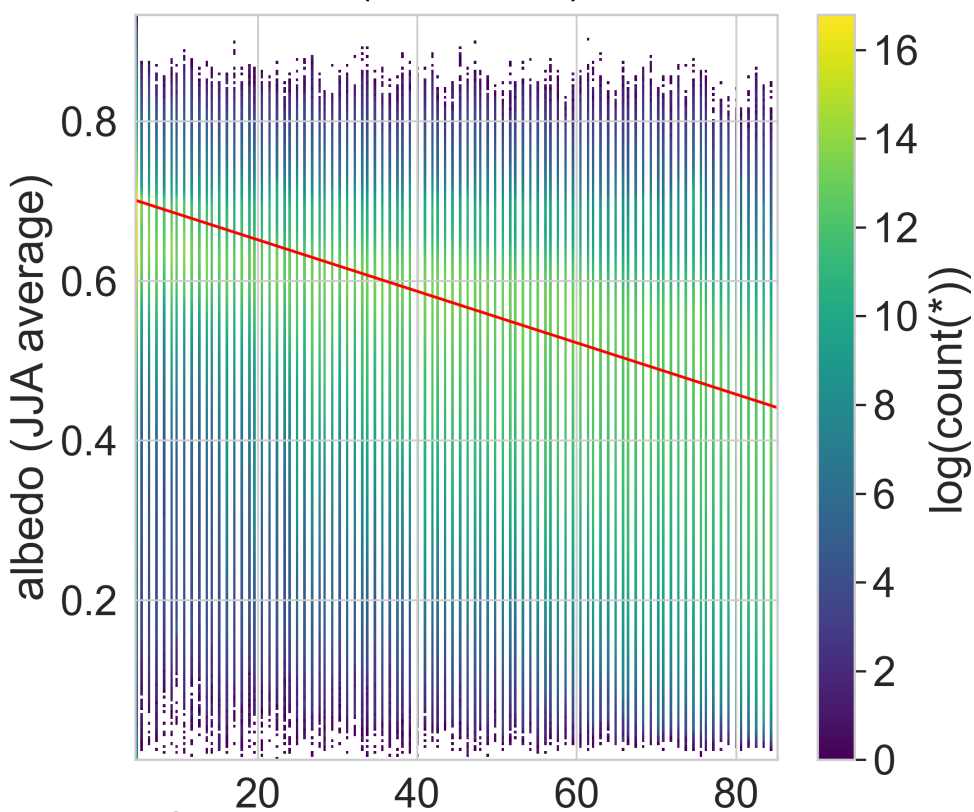
a) bare ice duration (days)
 $r^2:0.74$, $p\text{-value}<0.001$, $n:117$
 slope= -0.0044 ± 0.0002 ,
 intercept= 0.7544 ± 0.0157
 (AWS Data)



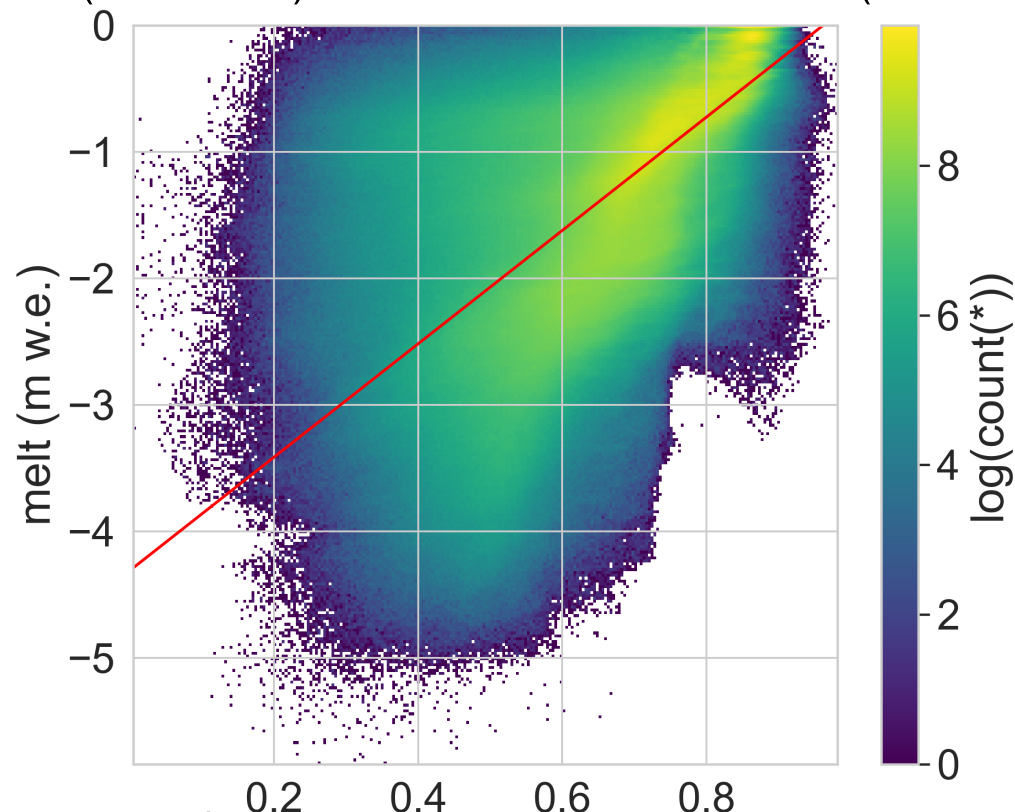
b) albedo (JJA average)
 $r^2:0.60$, $p\text{-value}<0.001$, $n:90$
 slope= 9.1411 ± 0.7962 ,
 intercept= 7.0152 ± 0.4132
 (AWS Data)



c) bare ice duration (days)
 $r^2:0.22$, $p\text{-value}<0.001$, $n:117$
 slope= -0.0018 ± 0.0003 ,
 intercept= 0.5153 ± 0.0210
 (AWS Data)



d) bare ice duration (days)
 $r^2:0.55$, $p\text{-value}<0.001$, $n:1,889,267,238$
 slope= -0.0032 ± 0.0000 , intercept= 0.7161 ± 0.0000
 (HSA Data)



e) albedo (JJA average)
 $r^2:0.46$, $p\text{-value}<0.001$, $n:31,283,401$
 slope= 4.4833 ± 0.0009 , intercept= 0.0007
 (Albedo: MOD10 and SICE; Melt: HIRHAM)