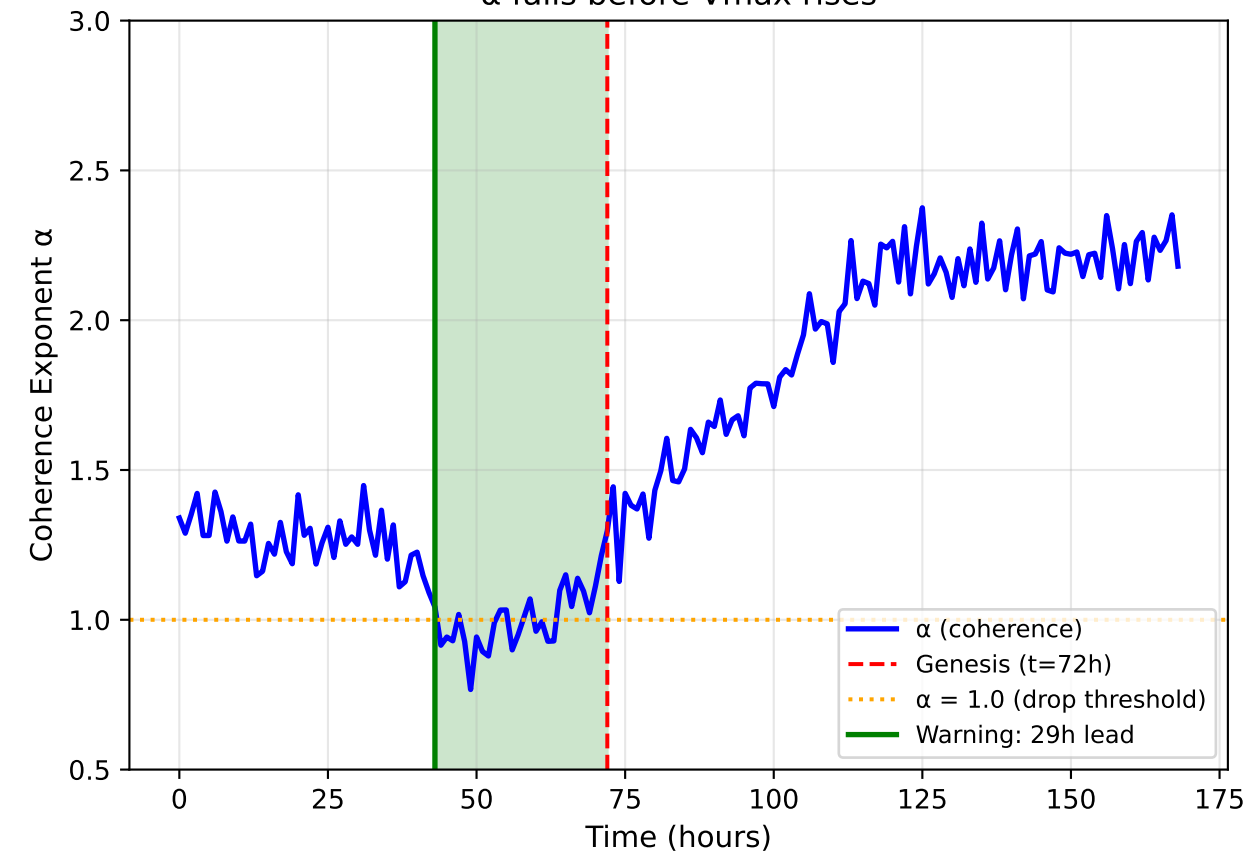
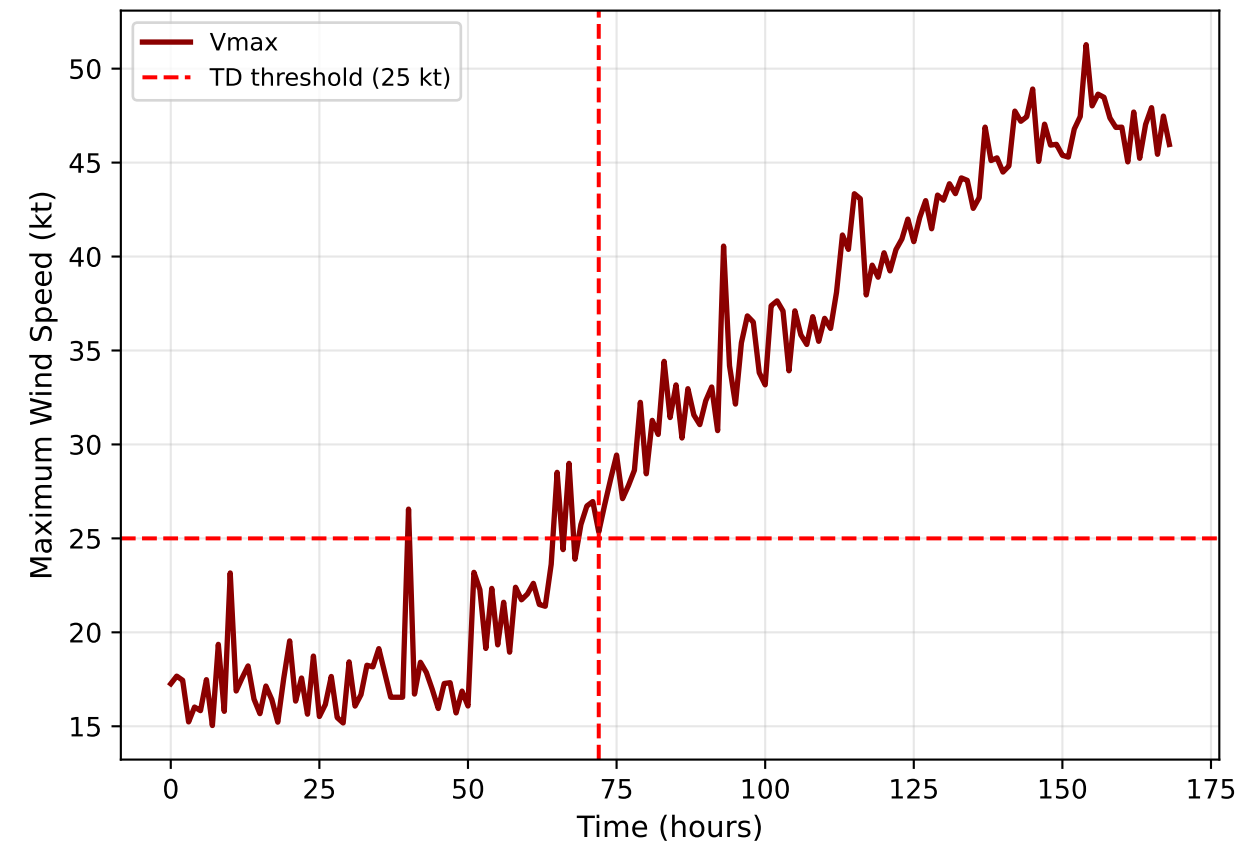


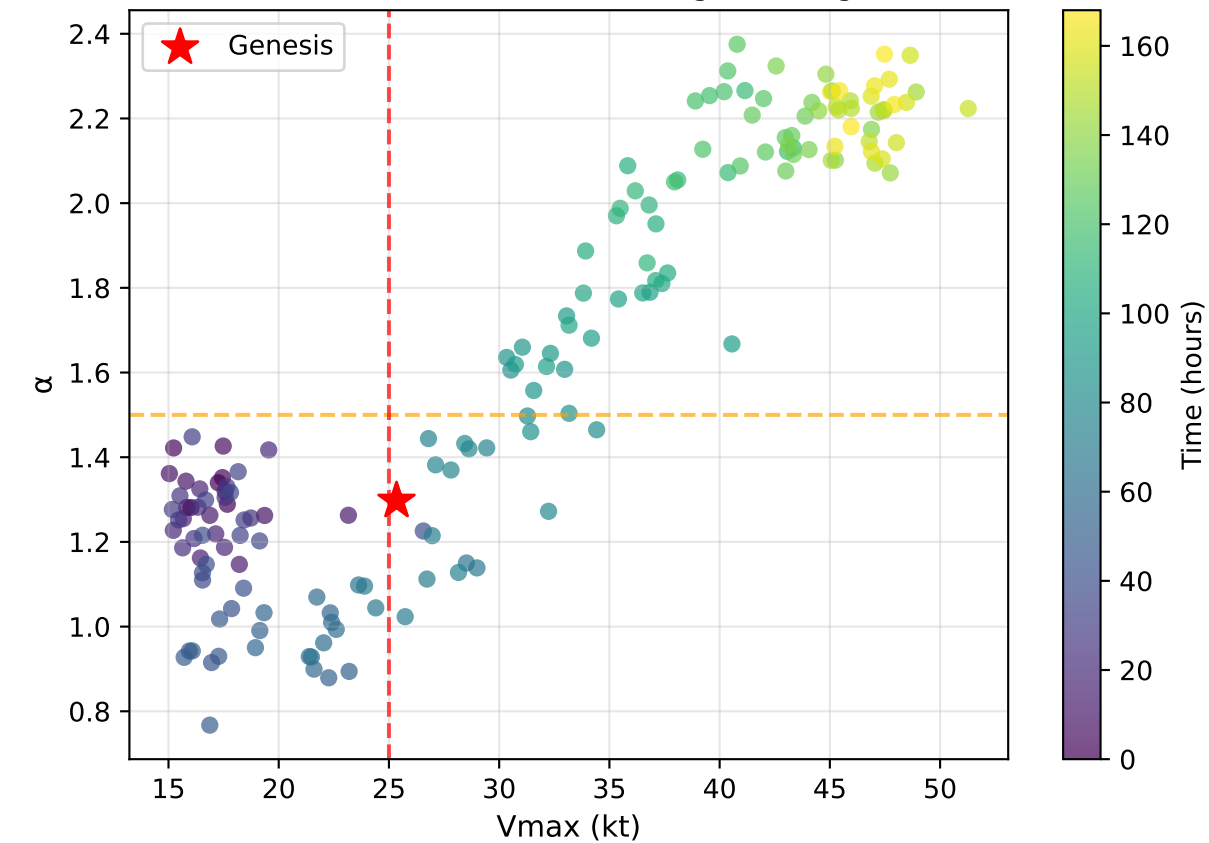
Atlantic TD:  $\alpha$ -Drop Before Genesis  
 $\alpha$  falls before Vmax rises



Wind Speed Evolution  
(Genesis = Vmax crosses 25 kt)



$\alpha$ -Vmax Phase Space  
(Genesis occurs after  $\alpha$  begins rising)



Indicator Lead Time Comparison  
 $\alpha$ -drop provides earliest warning

