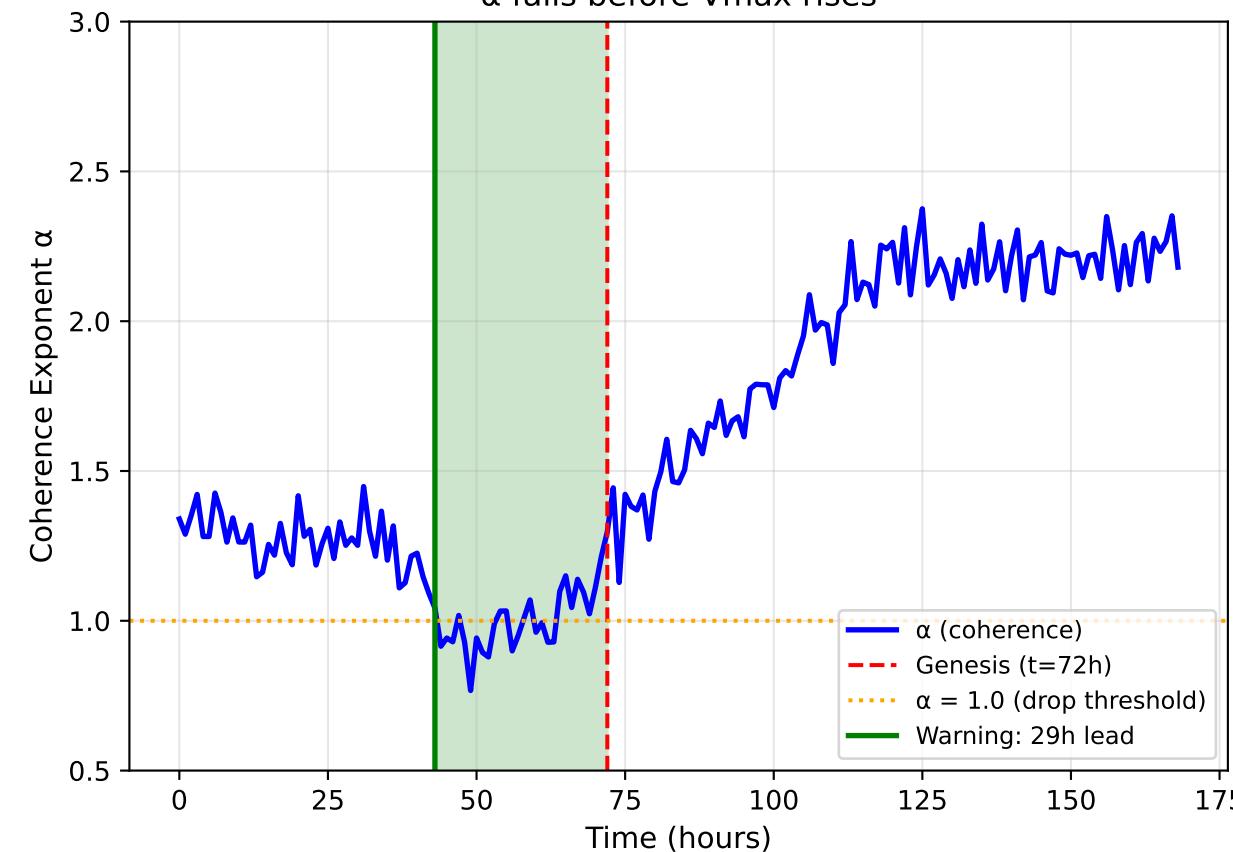
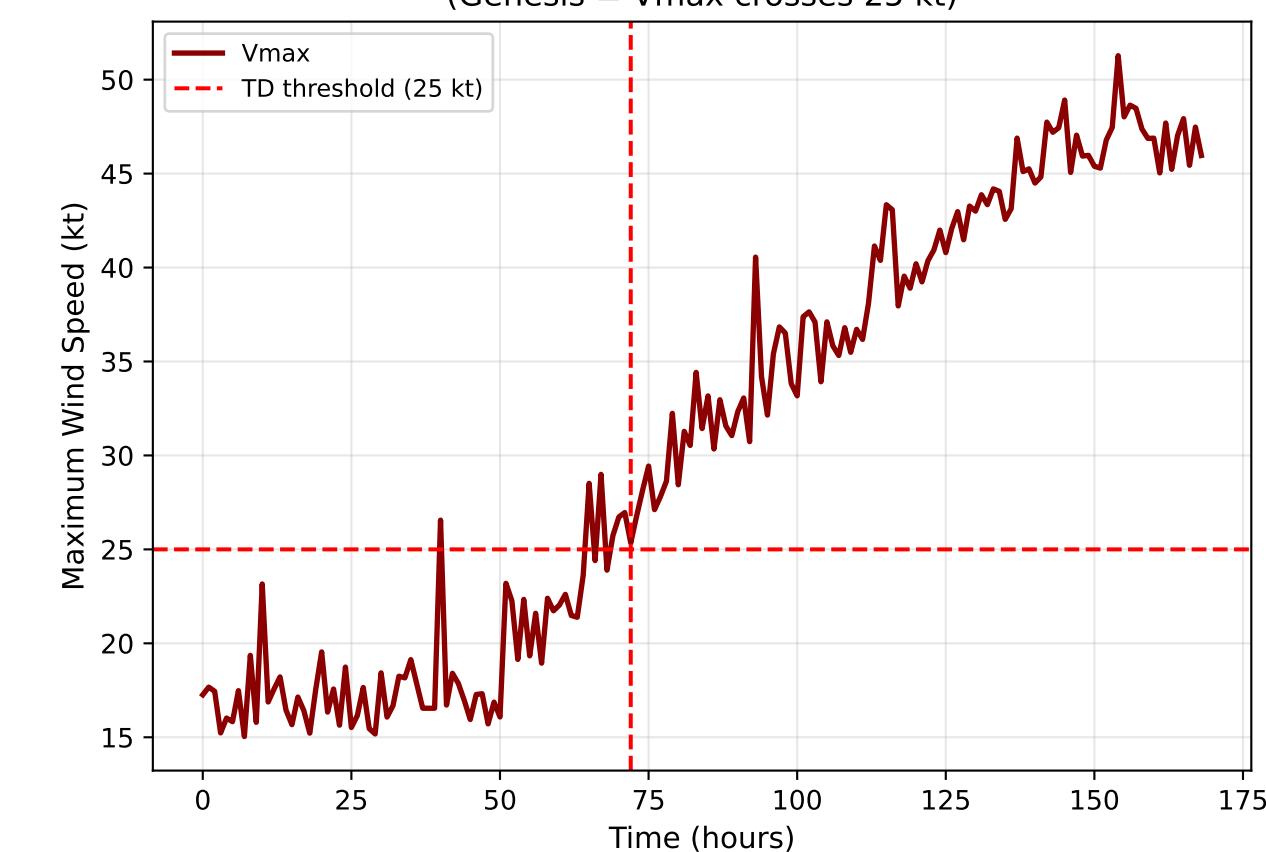


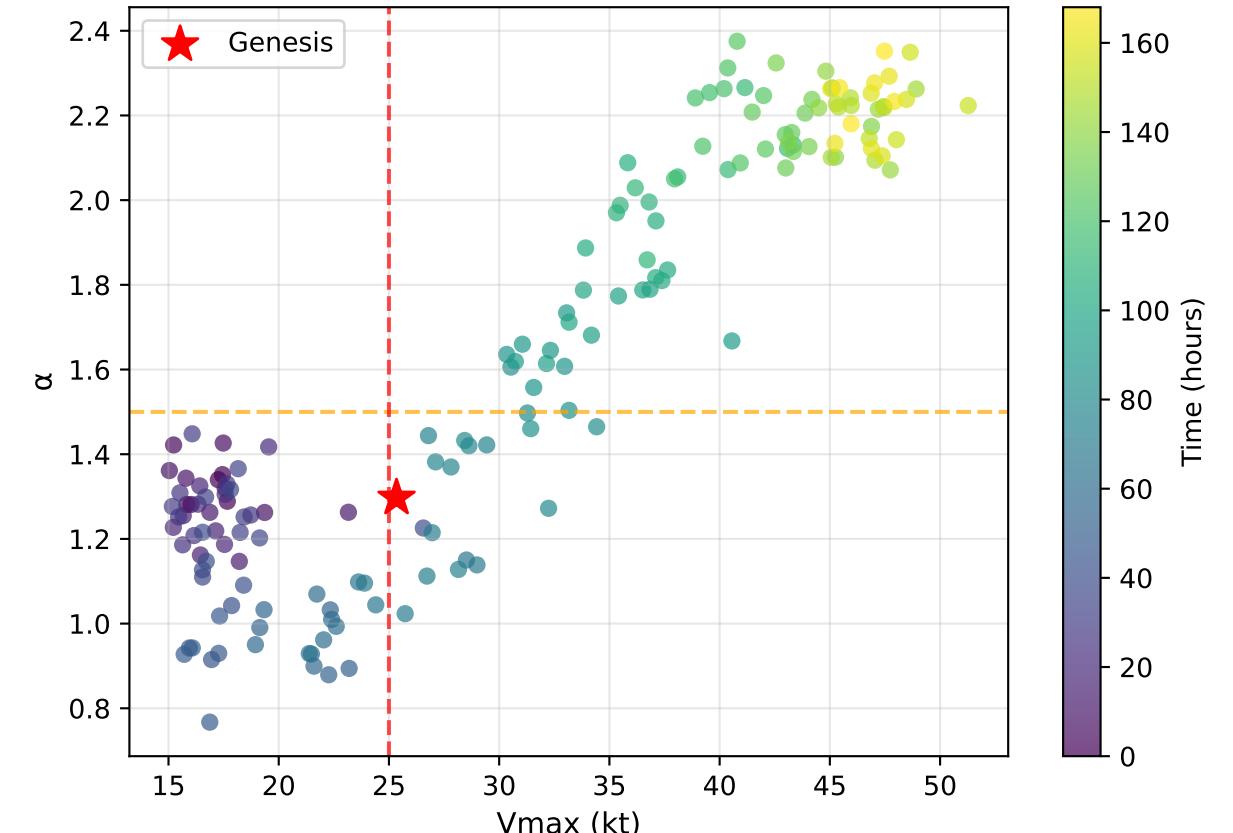
Atlantic TD: α -Drop Before Genesis
 α falls before Vmax rises



Wind Speed Evolution
(Genesis = Vmax crosses 25 kt)



α -Vmax Phase Space
(Genesis occurs after α begins rising)



Indicator Lead Time Comparison
 α -drop provides earliest warning

