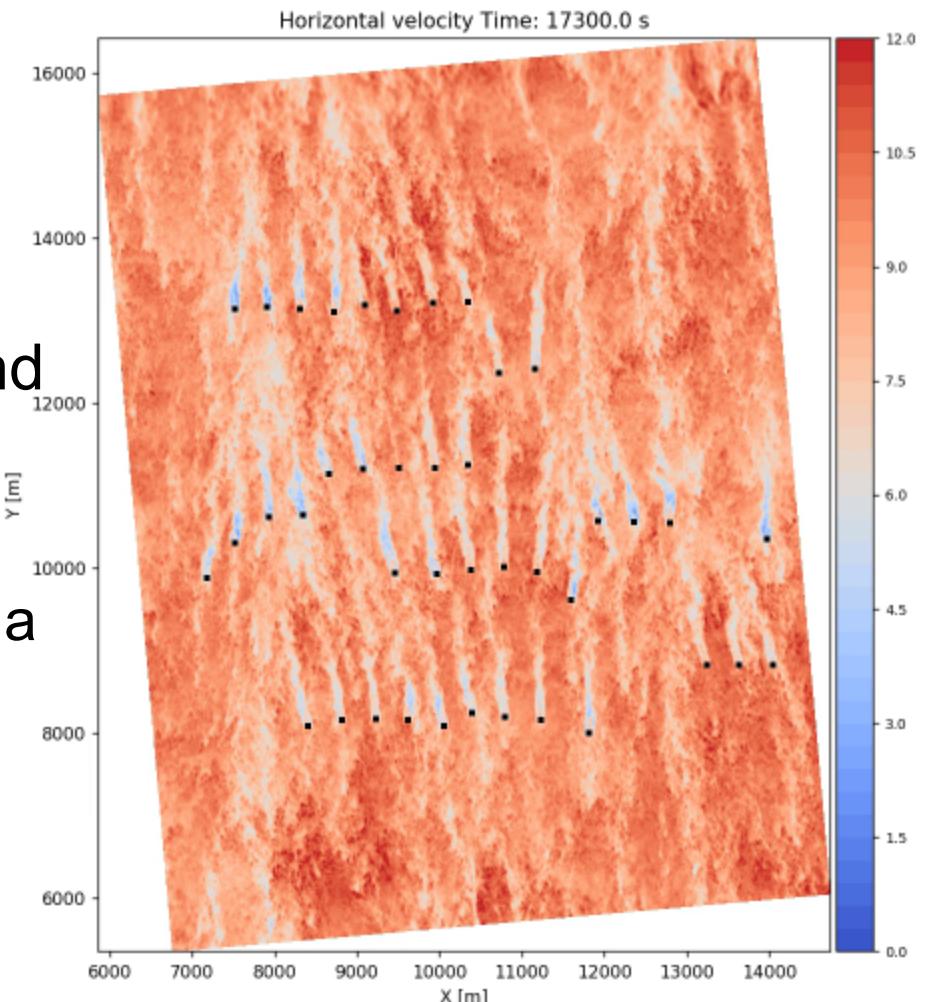


1 Sandia National Labs: Effects of Stability on Blockage in LES Simulations



- Alan Hsieh – talk on Thurs at 1pm
- Joint collaboration between SNL, PNNL, NREL
 - Use HPC resources to examine AWAKEN wind farms (**King Plains**, Thunder Ranch) under stable and unstable ABL conditions
- Relevant science questions
 - What is the range of wind speed reduction upstream of a wind plant and the impact on wind plant power production
 - What is the sensitivity of blockage to atmospheric conditions?
 - How do we observe blockage effectively in the field?



Eastern King Planes –
Unstable Conditions

Team members: Myra Blaylock, Ken Brown, Lawrence Cheung,
Nathaniel deVelder, Tommy Herges, Alan Hsieh and David Maniaci