



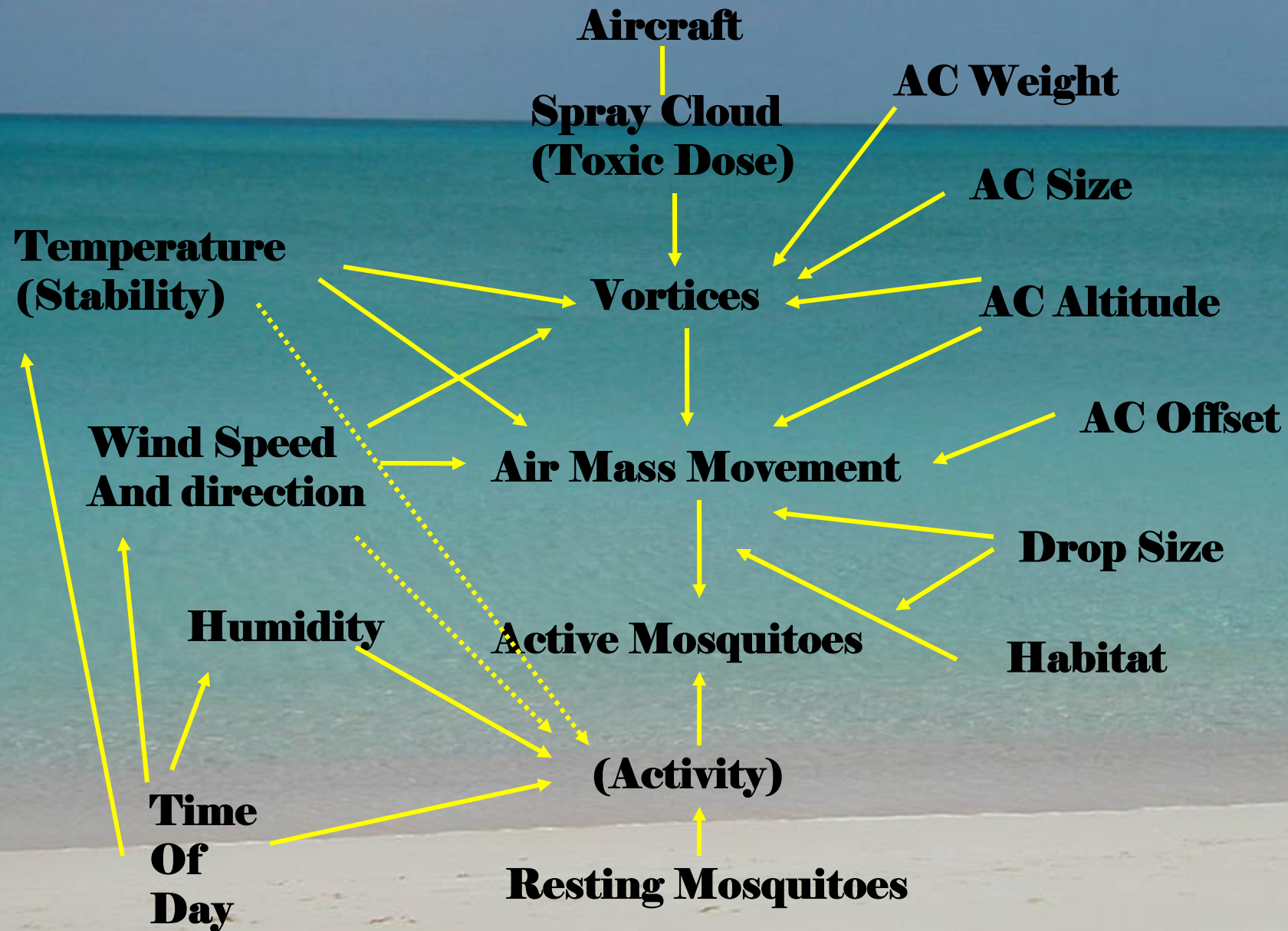
Leading Edge Associates, LLC
Bill Reynolds
407.468.0008

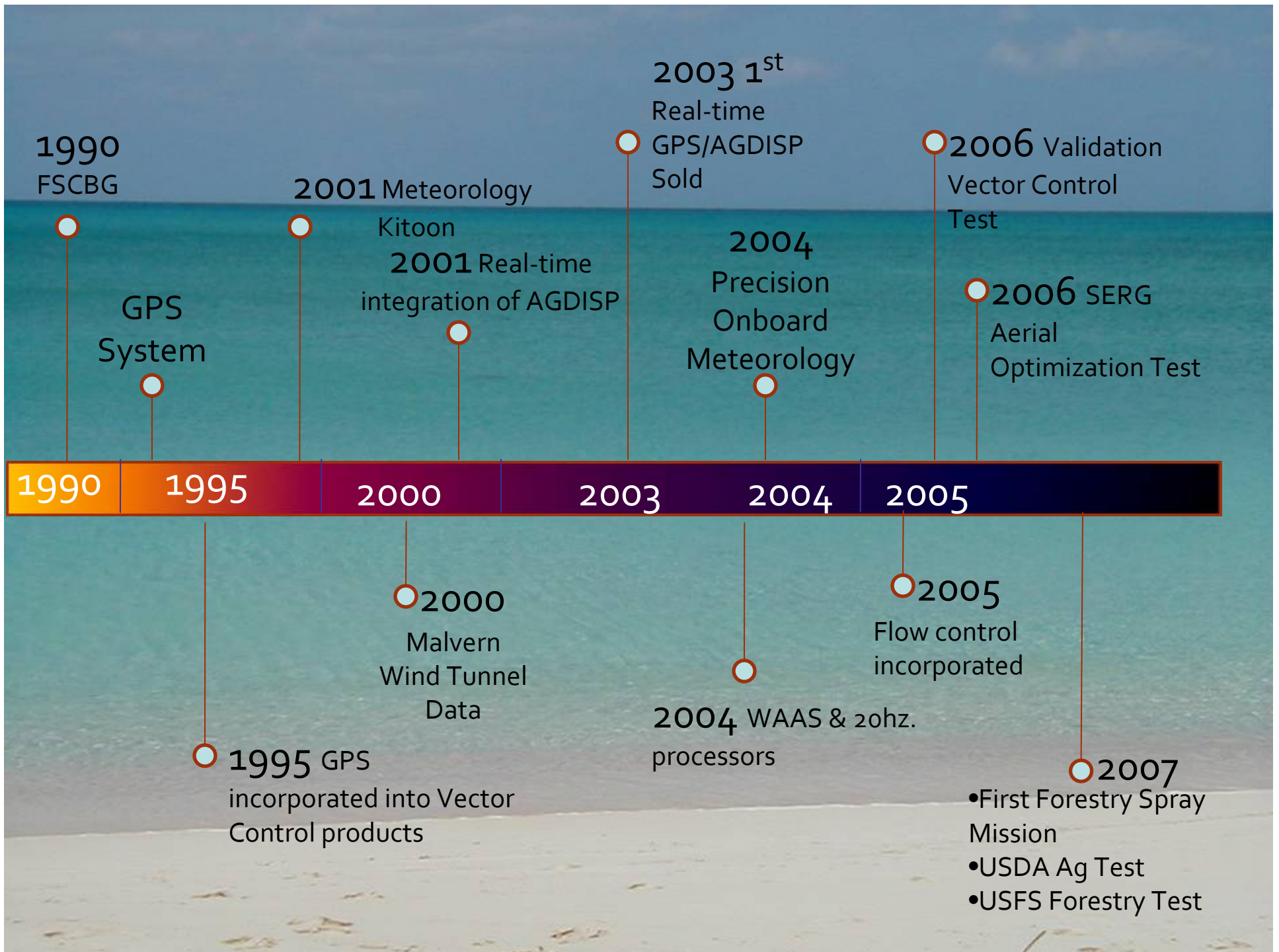


**Integrated Avionics
in
Aerial Application Technologies**

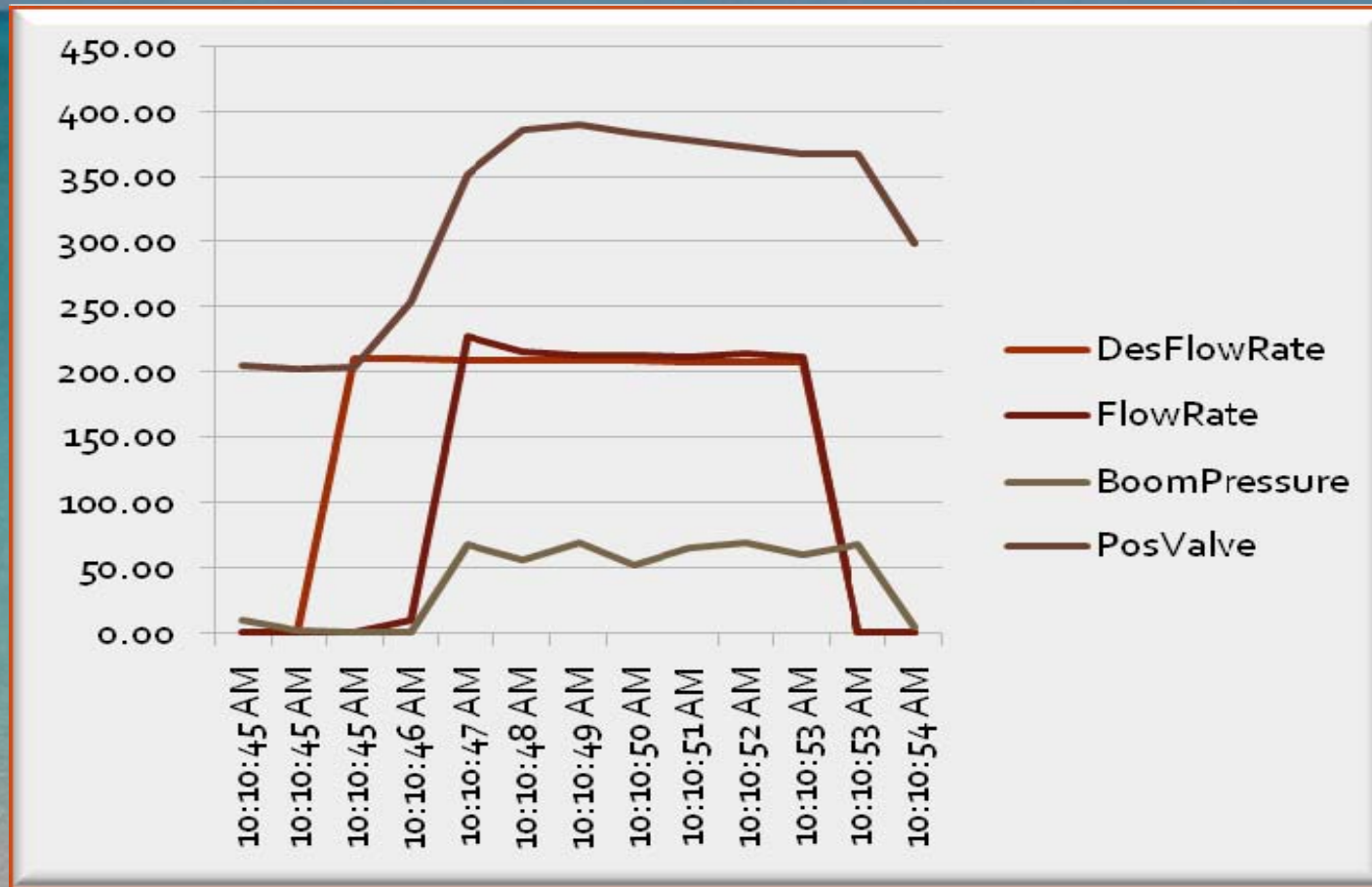
**Public Health
Forestry
Agriculture**

Variables and Interactions in Aerial Application

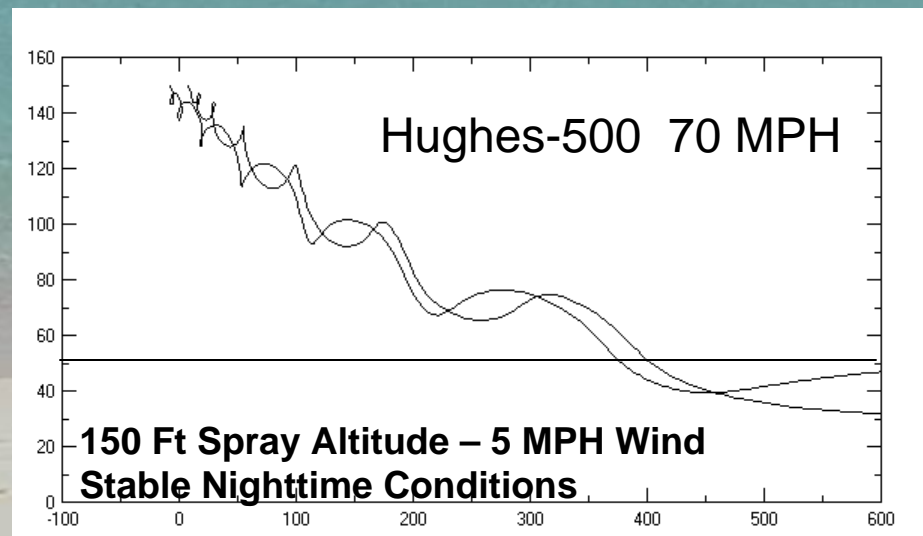
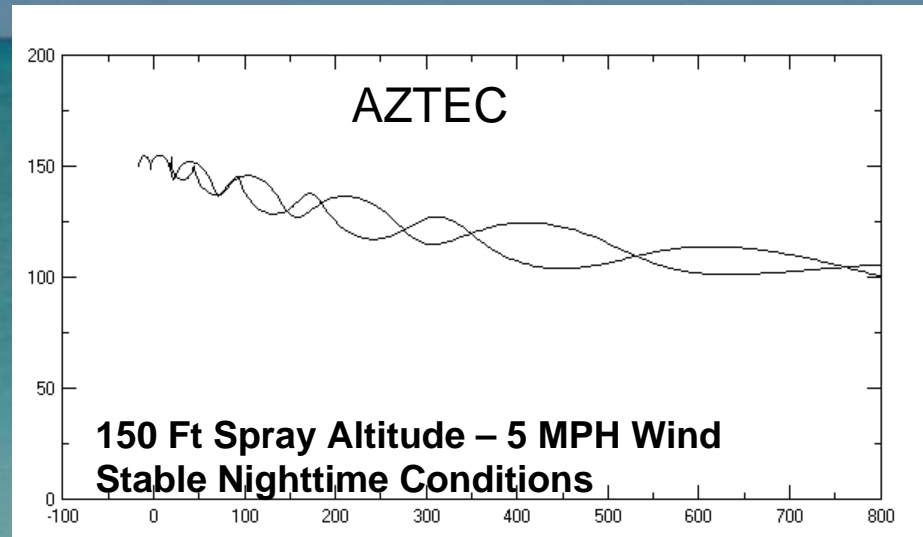
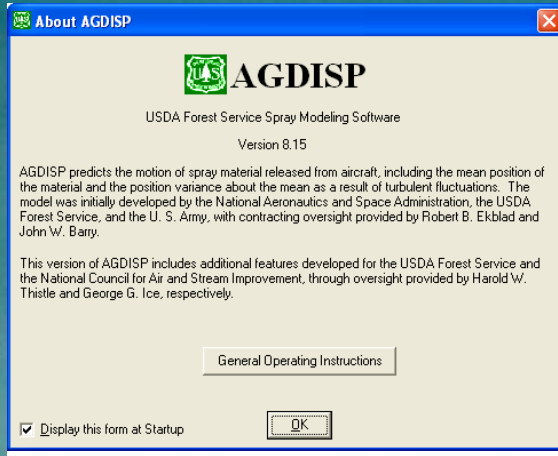




Automated Flow Control



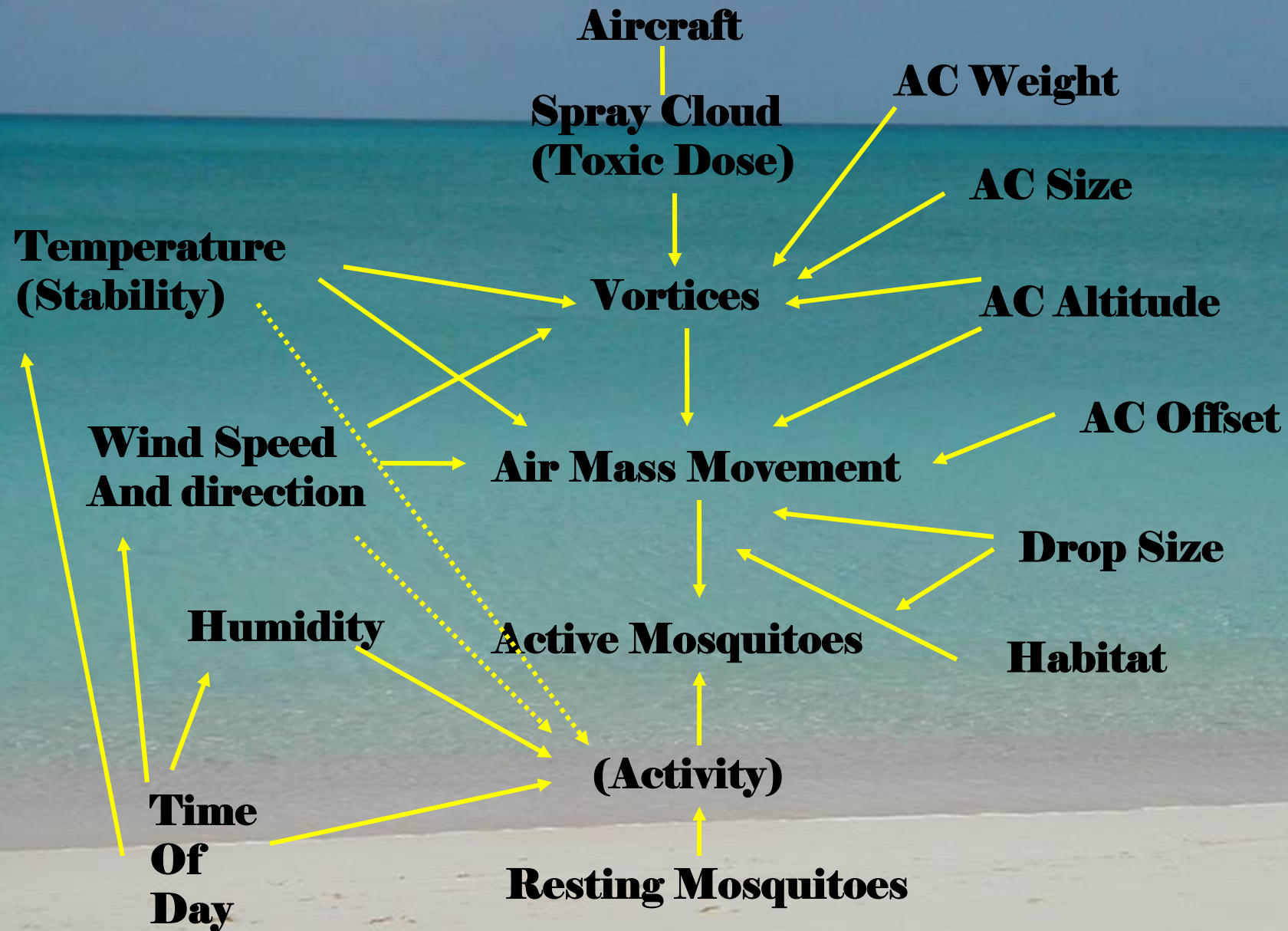
AGDISP (AGricultural DISPersal) Model



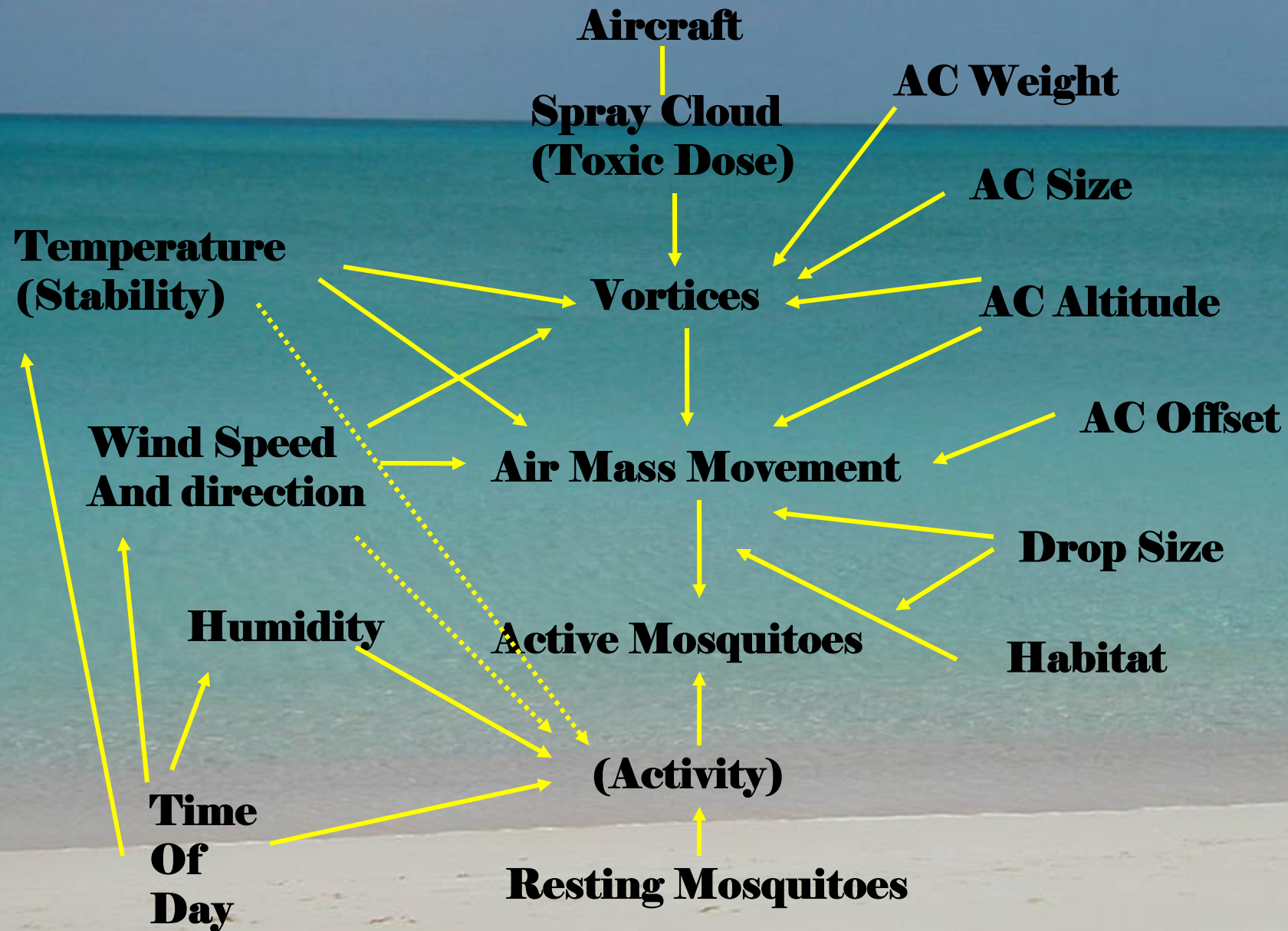
High-speed precision onboard meteorology

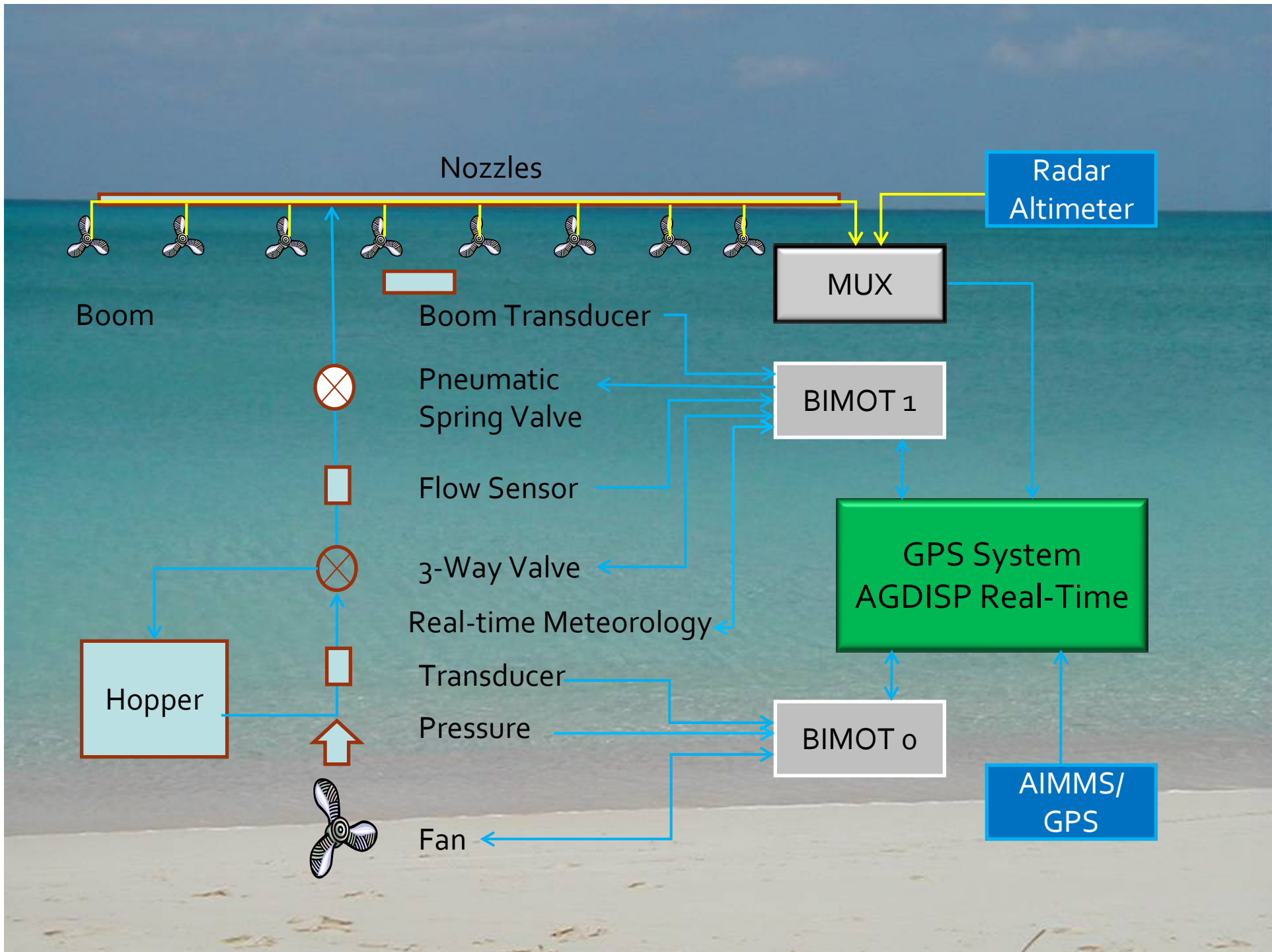


Variables and Interactions in Aerial Application



Variables and Interactions in Aerial Application

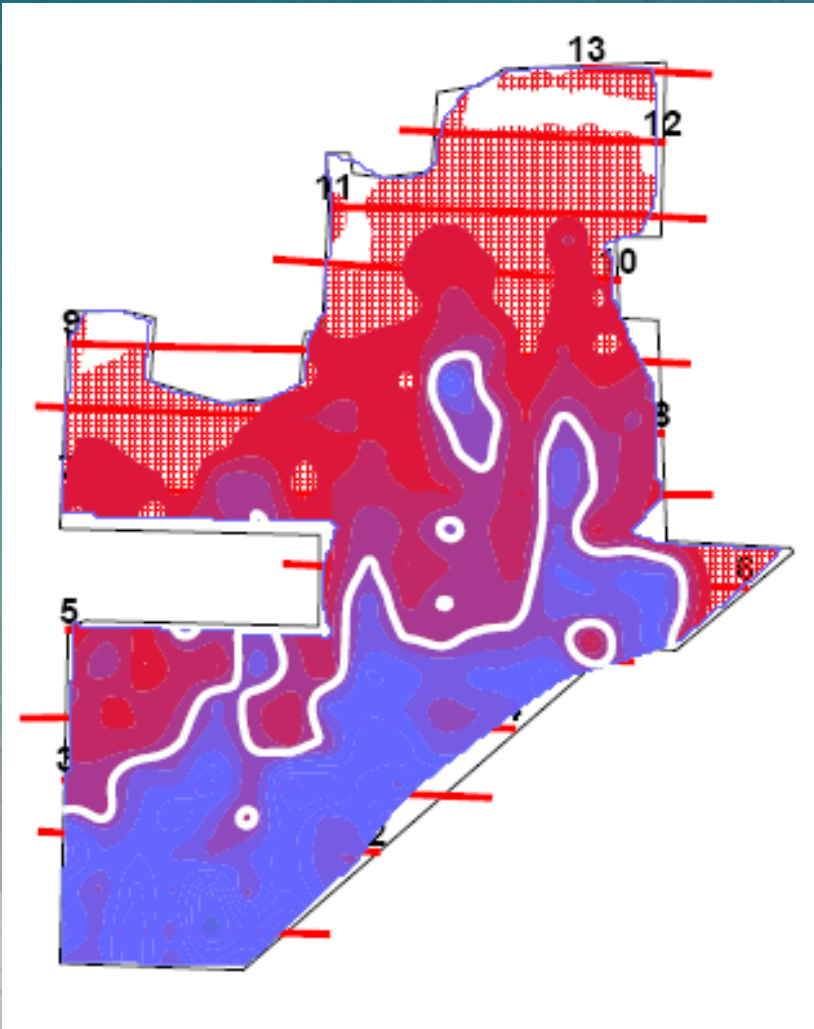






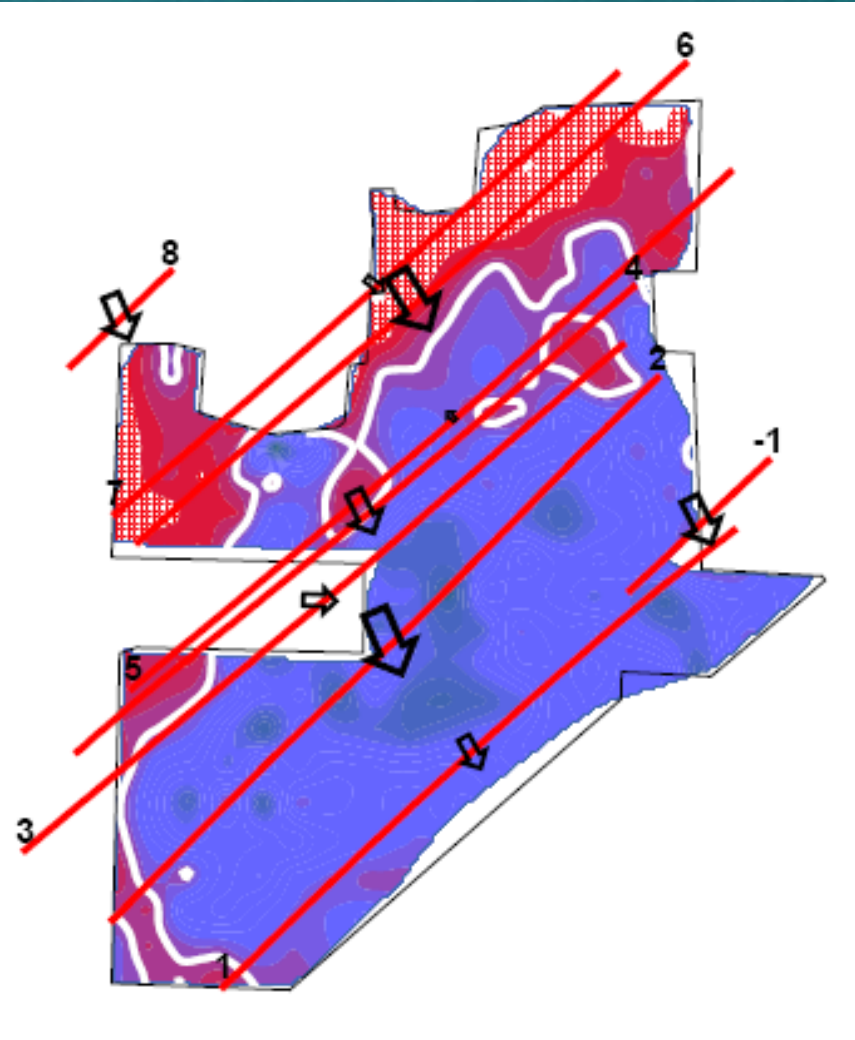
January 31, 2006 a.m.

Standard Application Method



January 31, 2006 p.m.

Optimized Application Method



Executive Summary:

- Optimization strategies offset flight lines show deposit & droplet densities increase up to 2.8 fold
- Droplet densities >20 drops/cm² would result in high efficacy against spruce budworm
- Improved deposition was achieved using the Wingman GX
- In some instances droplet densities per cm² were increased by a factor of 10X