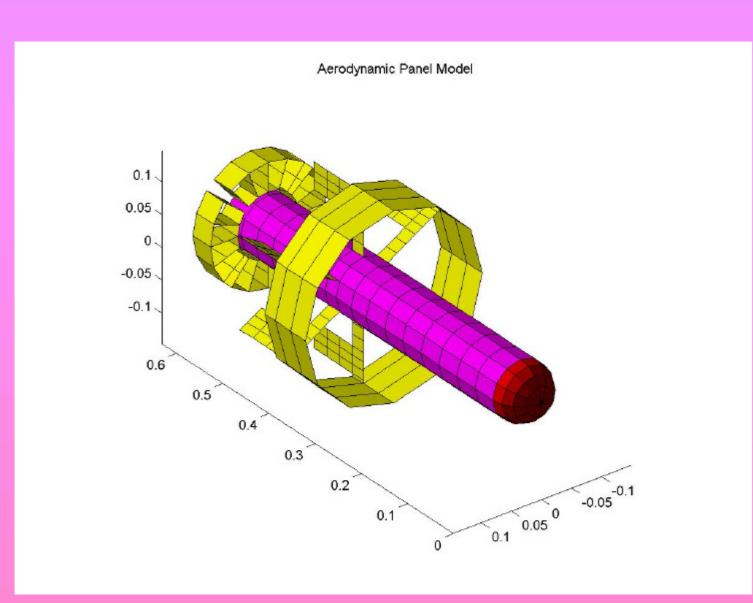
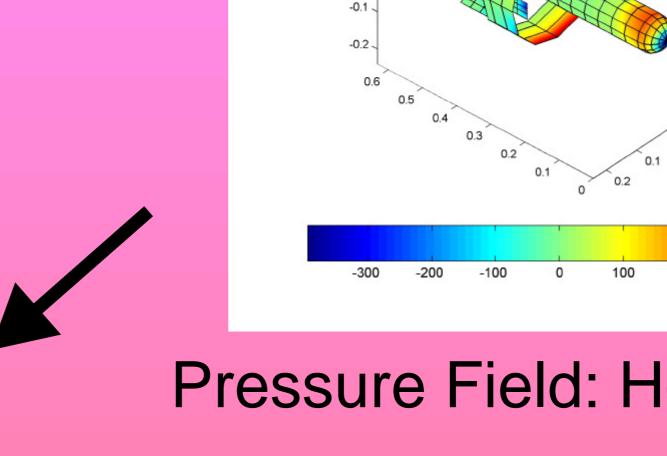
Aerodynamic Modelling, Simulation and Control Design for Fantail UAV: with Singapore Technologies Dynamics

Dr Hugh Stone

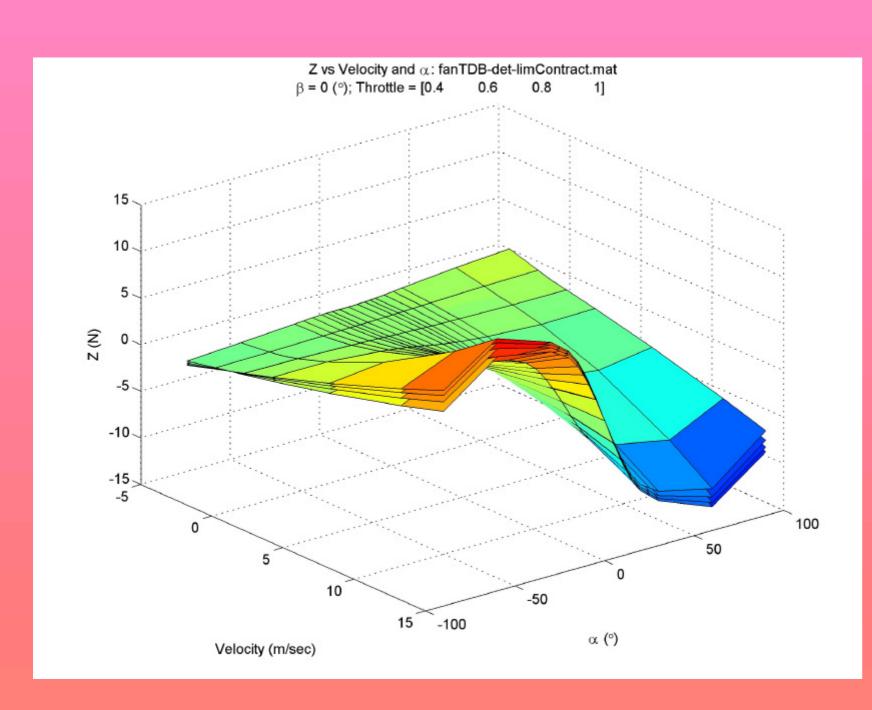


Aerodynamic Panel Model

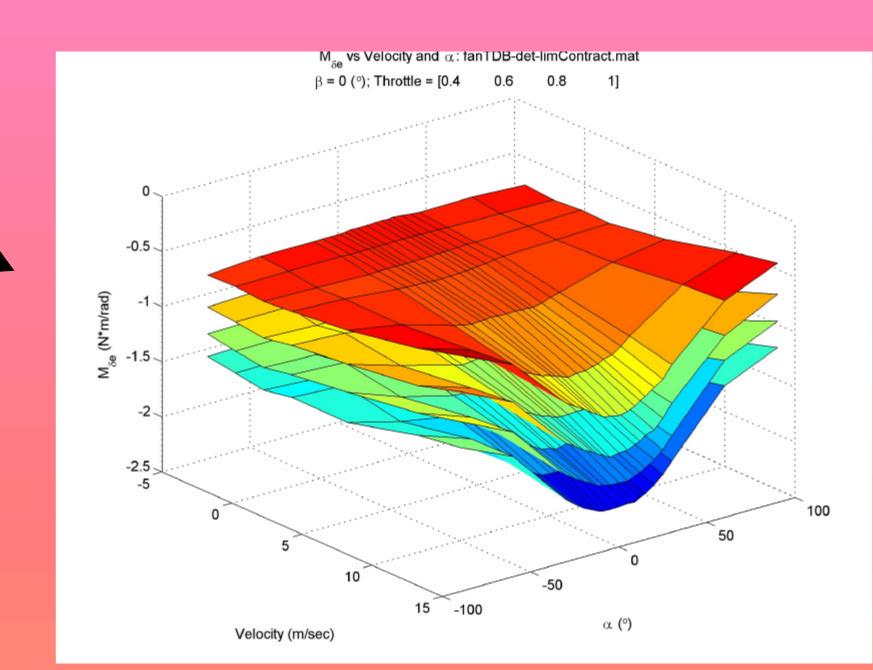


Pressure Field: Horizontal Flight

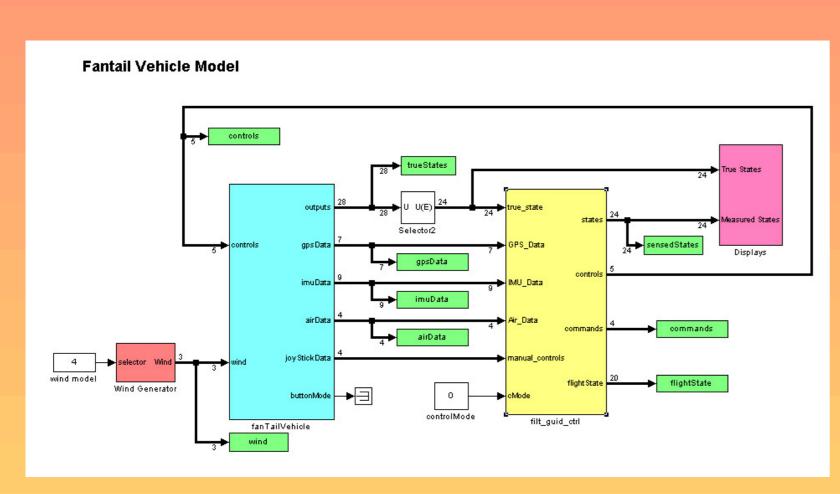
aero-26-Apr-2003-4011.mat: Surface Pressures: Load Case



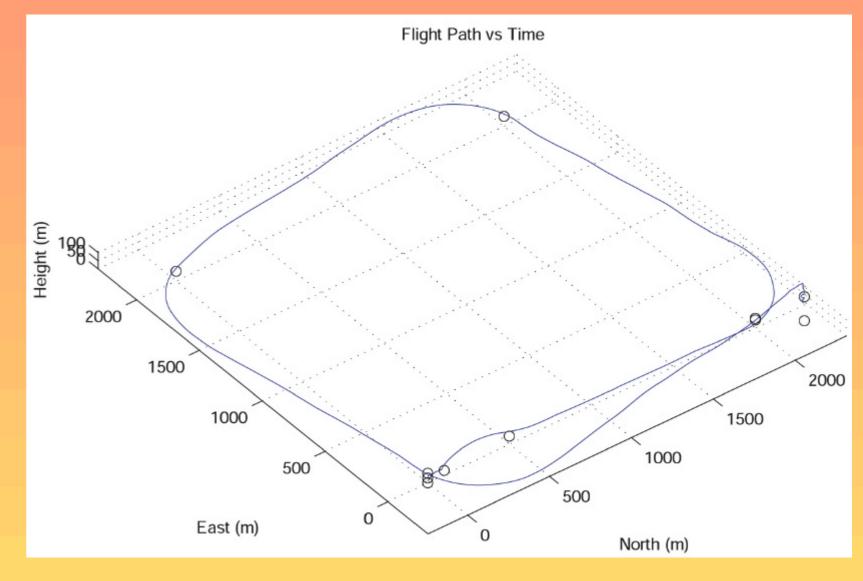
Low-Speed Aerodynamic Database: **Z**-Force vs V, α



Low-Speed Aerodynamic Database: $M_{\delta e}$ -Moment vs V, α



Fantail Full 6-DOF Non-linear Simulation, with Sensor Errors, Wind etc.,.



Simulated Flight Path Including Vertical-Horizontal and Horizontal-Vertical Transitions