

Maritime Helicopter Aid

Dynamic Ship Limits - when capability and safety matter

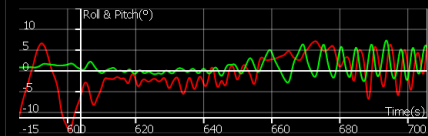


Advanced VTOL Technologies, Maritime Helicopter Aid (MMA) System Sim Rate: 0.95

Deck State



Max Roll 14°
Max Pitch 7°

MRH90

Spot 4

Medium

Spread

Unrestrained

Day

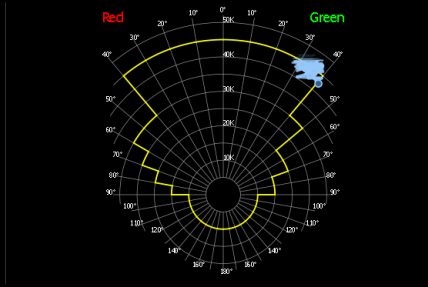
Dry




Wind State



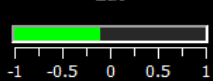
Green 33°
Speed 46 Kts
Gusting 50 Kts




Long



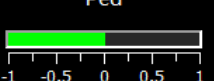
Lat



Col



Ped



Maritime Helicopter Aid (MHA)

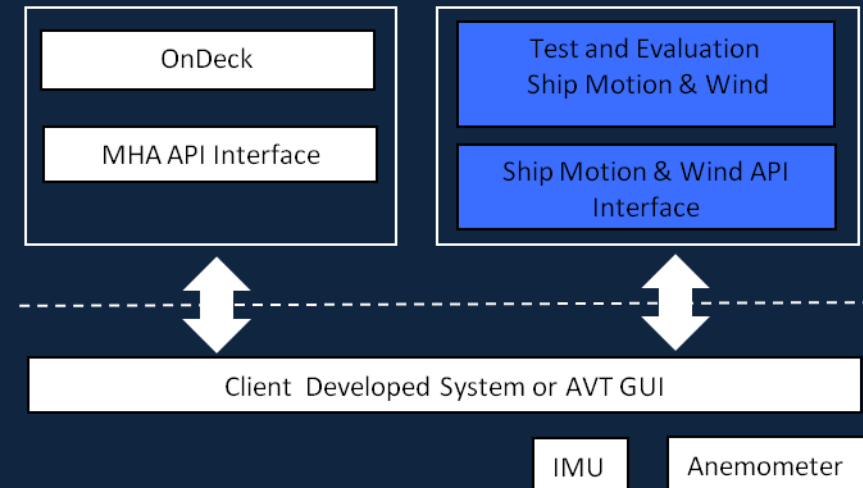


The MHA system uses real-time helicopter - ship interface simulation software and ship motion and wind sensor input to estimate limit proximity.

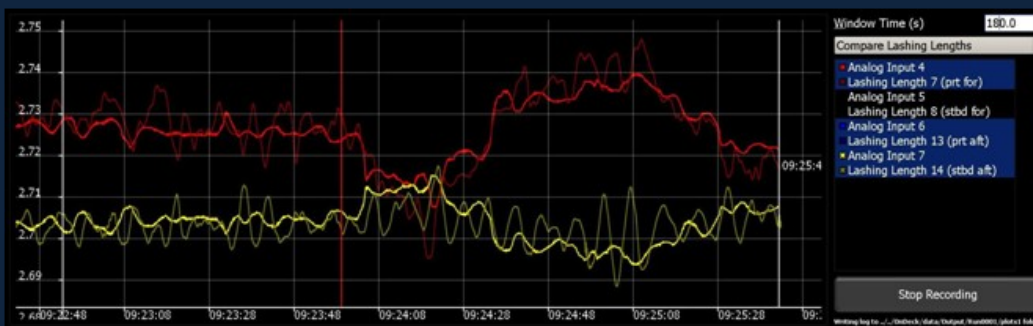
MHA Benefits:

1. Maximises ship & helicopter capability
 - Inertial Ship Motion Unit Sensor Input
 - ◇ all 6 ship DOF's (roll, pitch, yaw, heave,)
 - ◇ rates & accelerations (angular, translational)
 - ◇ accounts for ship ballast, list, trim and manoeuvring
 - Wind Anemometer Input
2. Real time simulation enables accurate prediction of
 - Sliding / toppling limits
 - Lashed and restraint system limits
3. MHA models can be validated and tuned on ship in real time
 - Simulation and sensor data overlaid
 - Model helicopter parameters tuned

MHA API for Client System Integration



Validation (Real Time Simulation & Sensor Data Overlay)



Expanded Capability & Accurate Prediction

