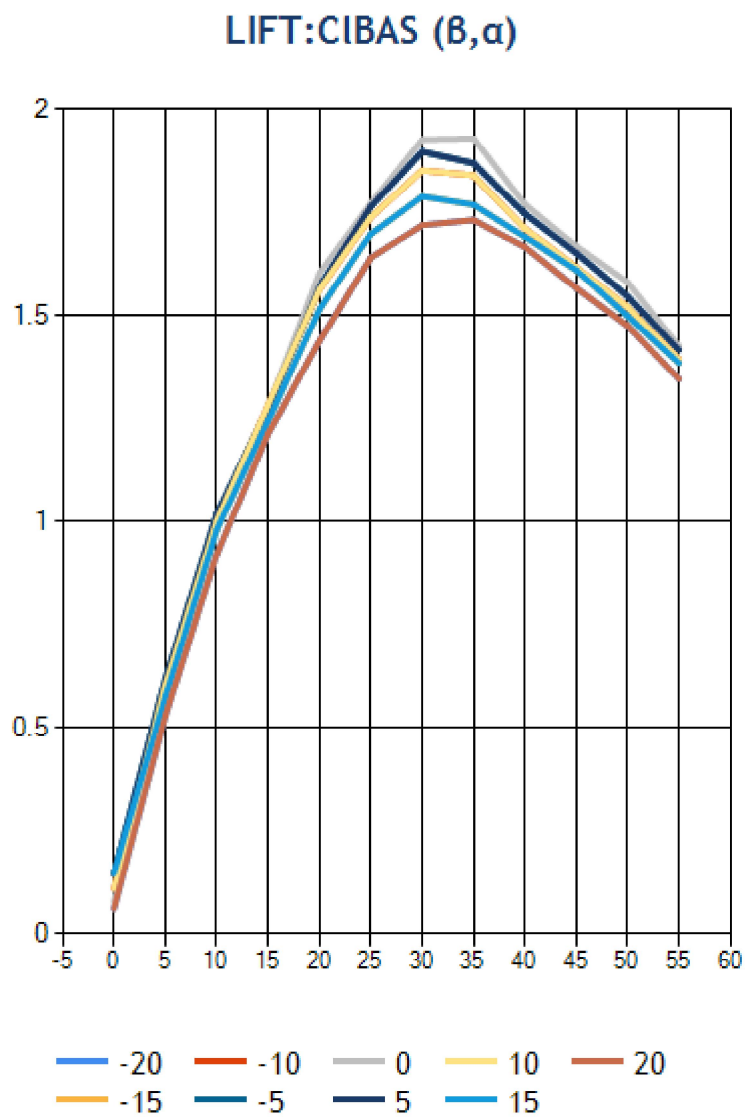
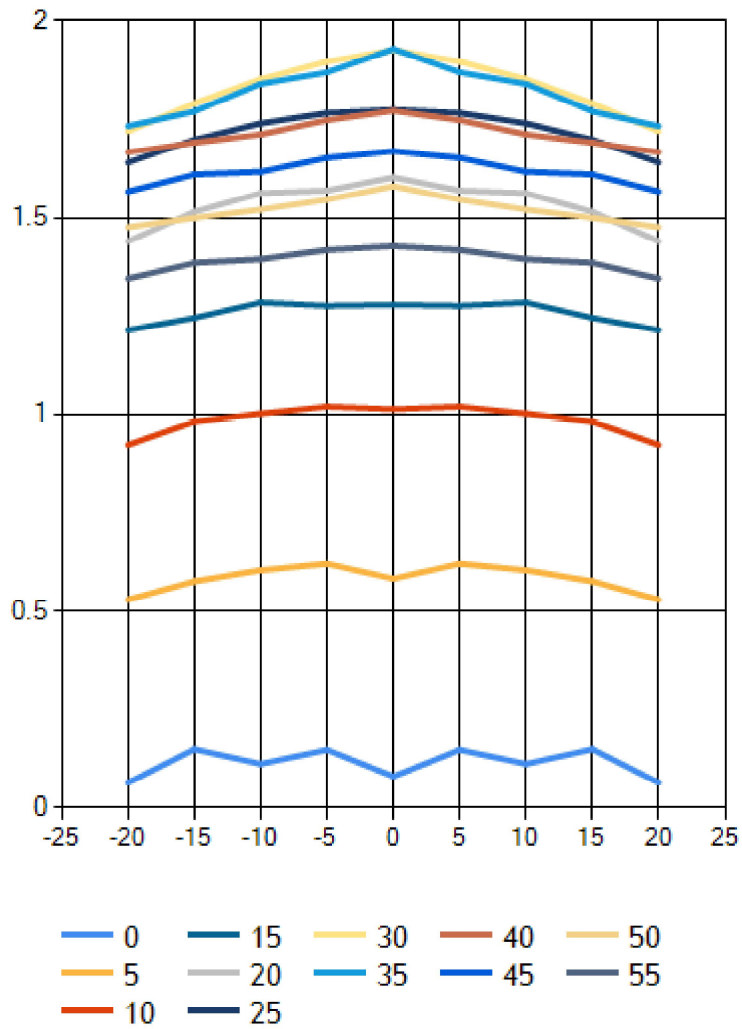


F14 Aerodynamics

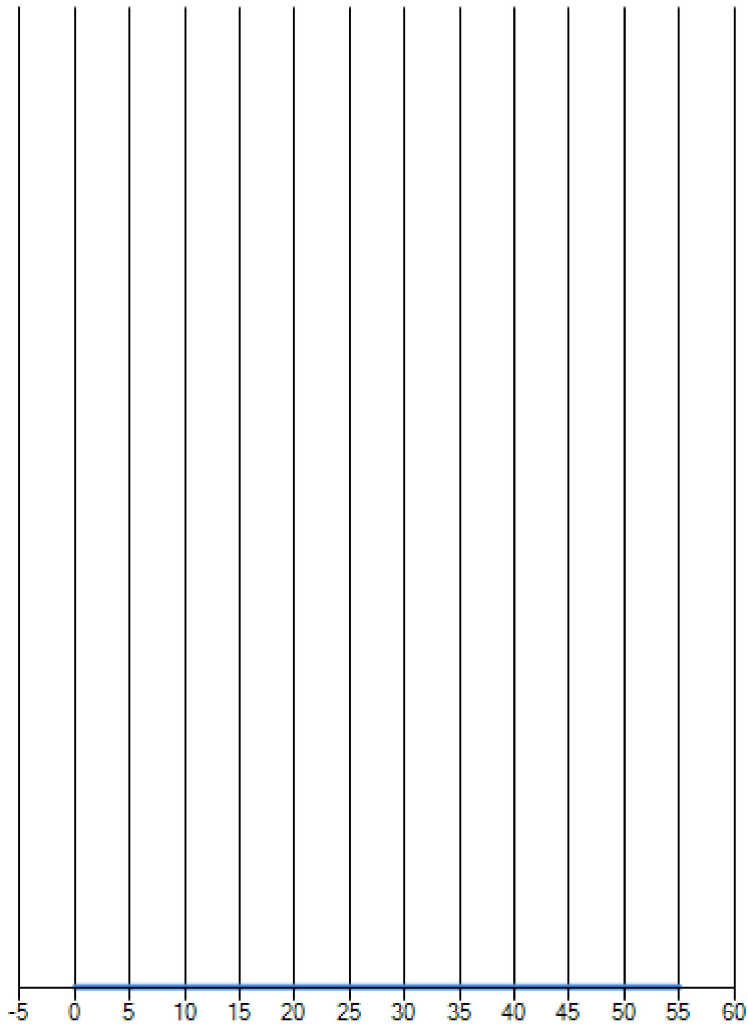
Basic Lift



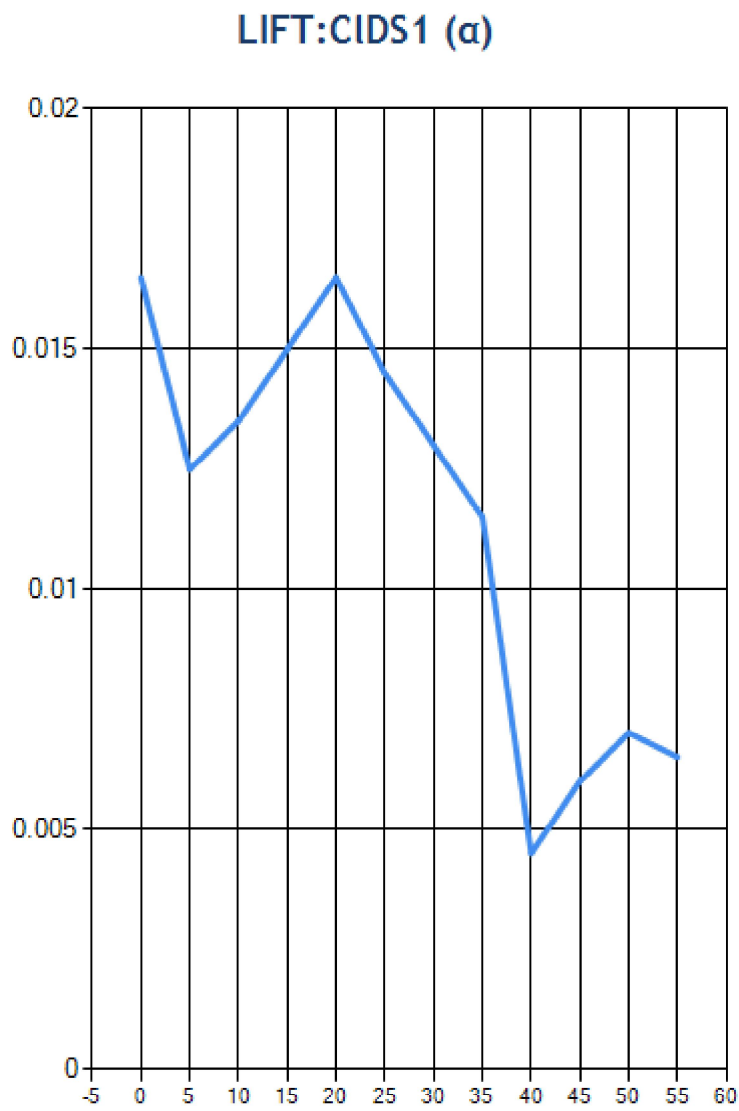
LIFT:CIBAS (α, β)

Lift at 0 beta (tuning)

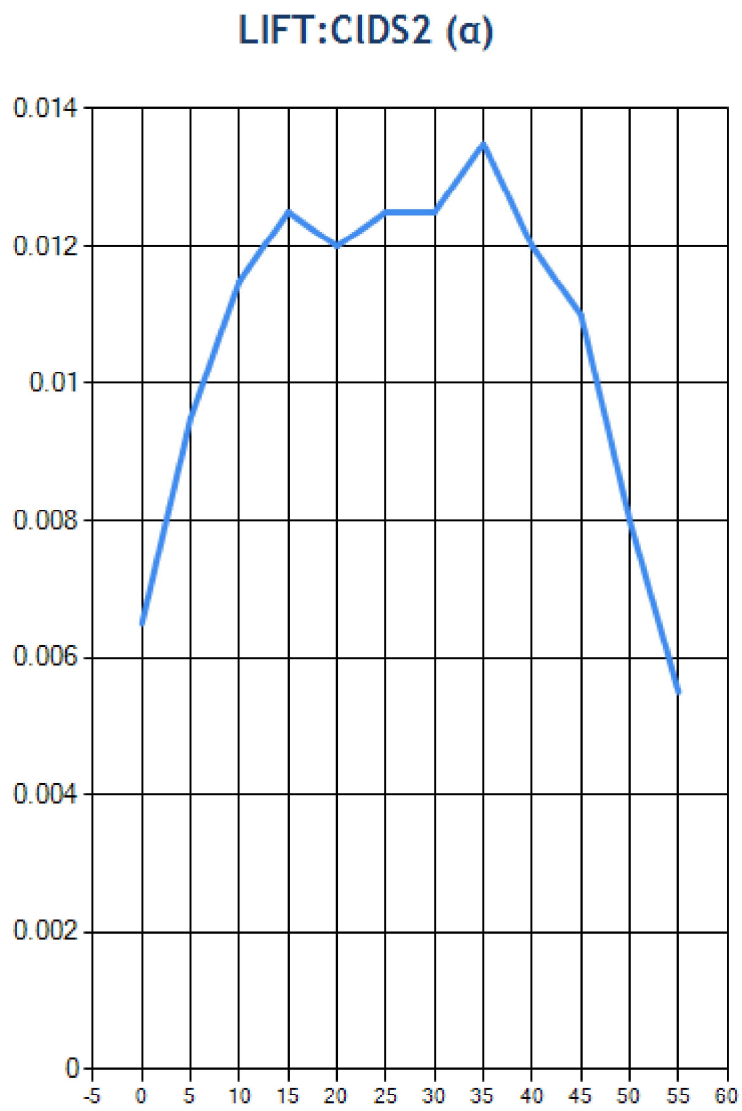
LIFT:DCIB0 (α)



Stabilizer lift for $\delta s \geq 10$ degrees

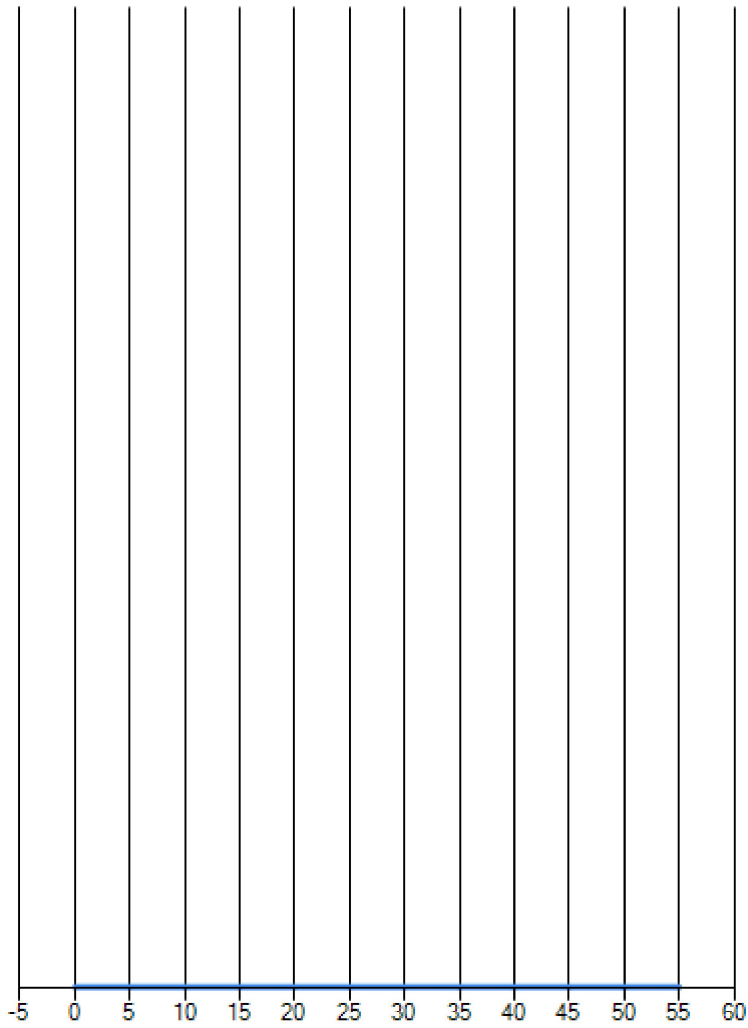


Secondary stabilizer lift for $\delta s < -10$ degrees

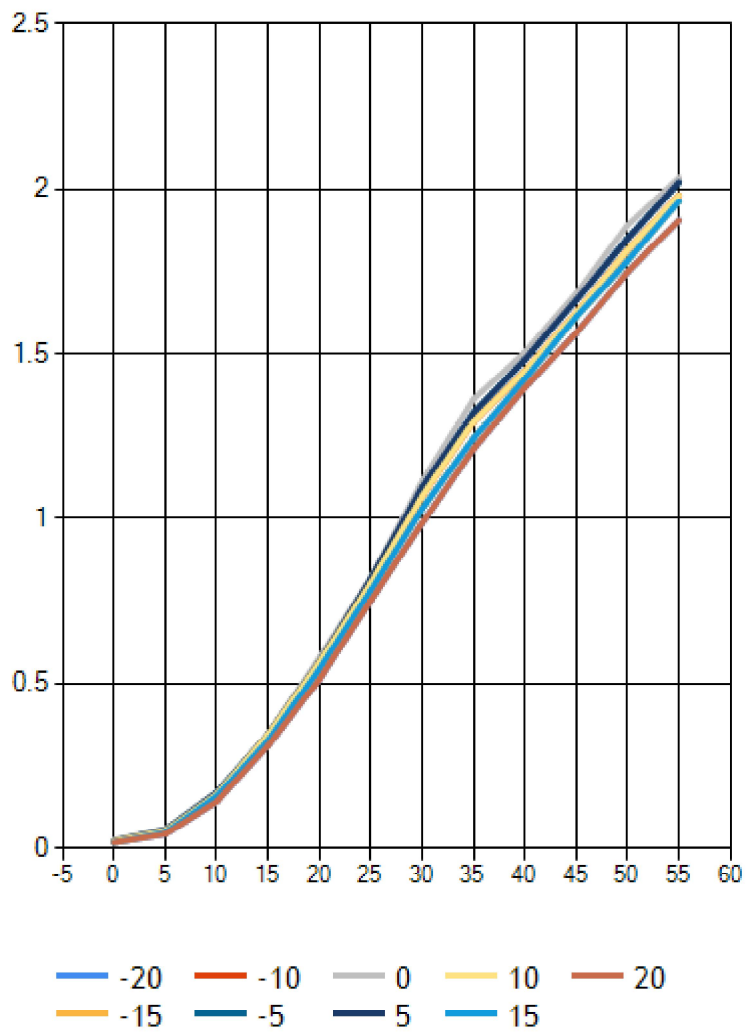


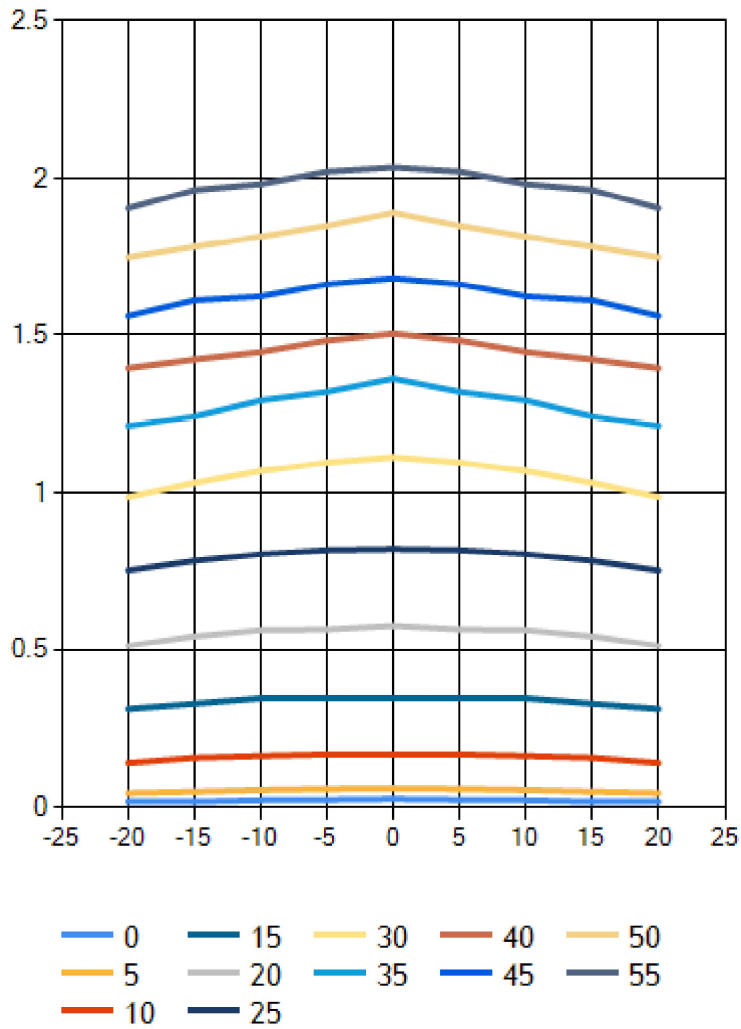
Spoiler lift increment

LIFT:DCISP (α)

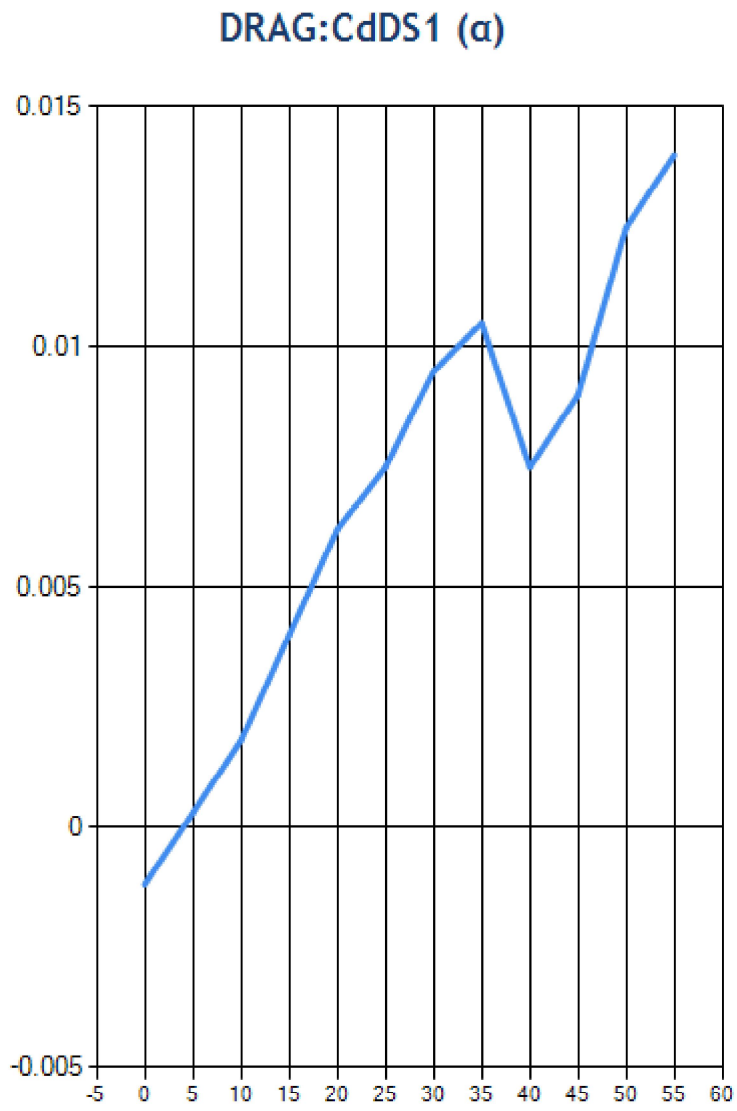


Basic Drag

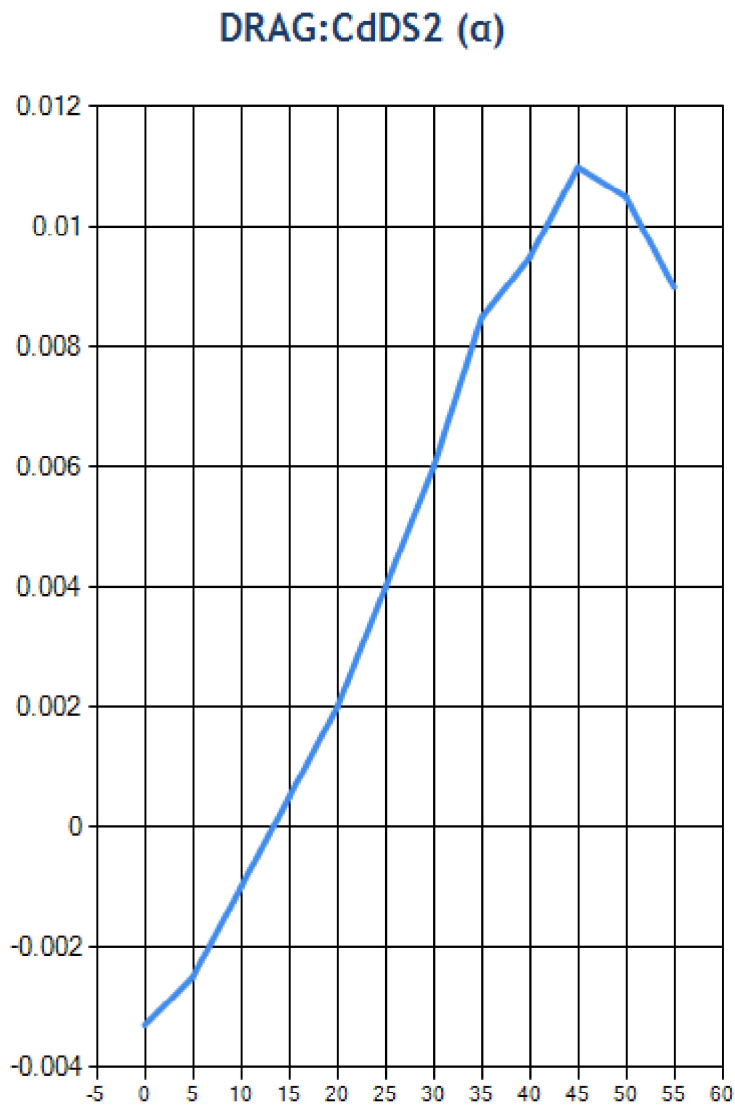
DRAG:CdBAS (β, α)

DRAG:CdBAS (α, β)

Drag increment spoilers ≥ -10

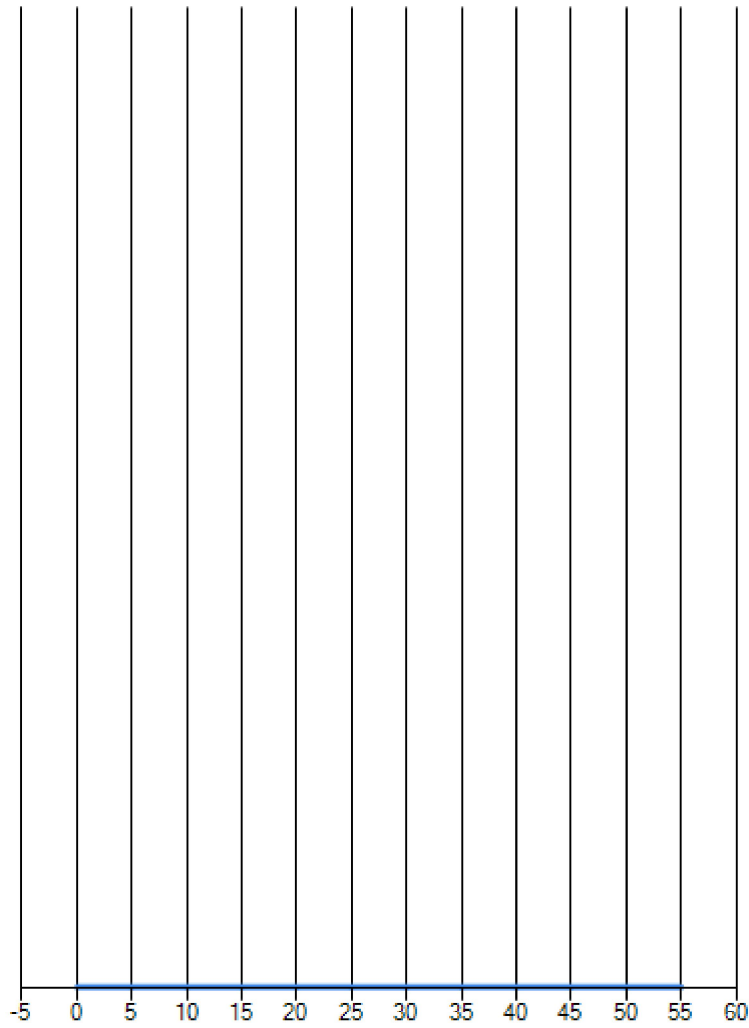


Secondary Drag increment spoilers < -10

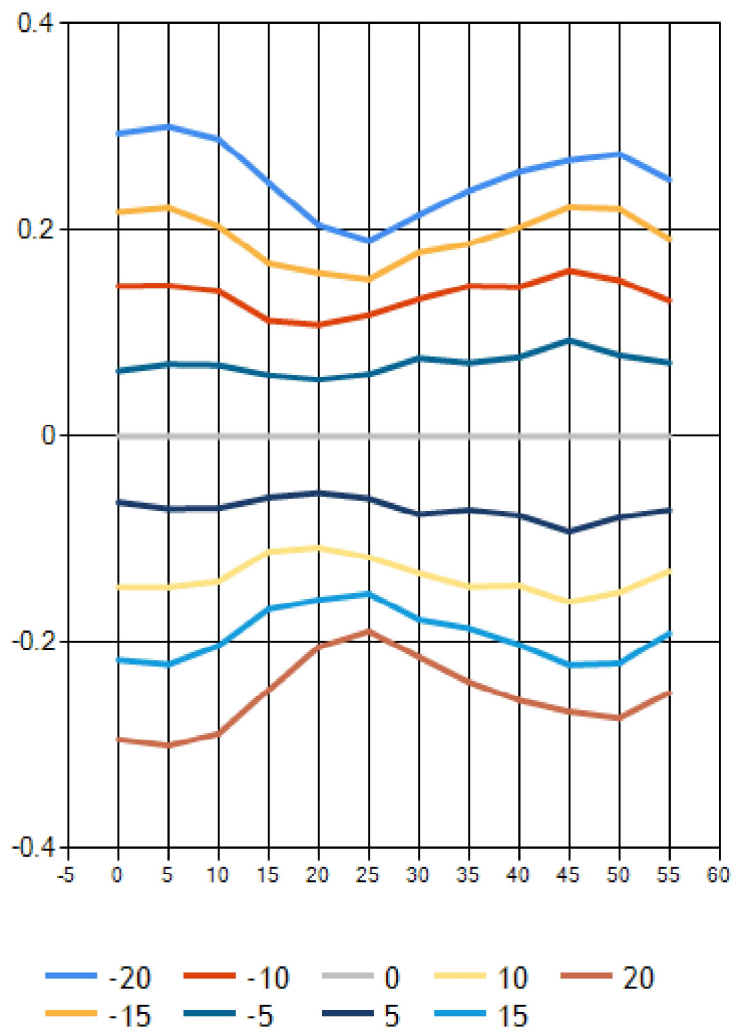


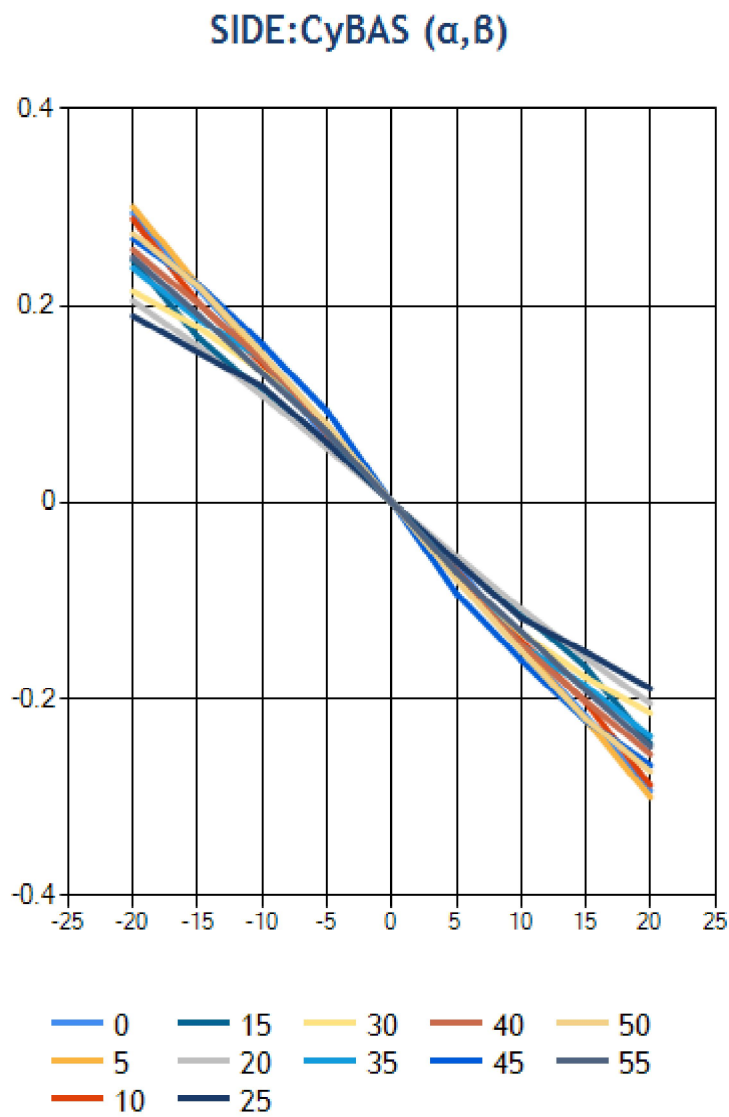
Primary Drag increment spoilers

DRAG:DCdSP (α)



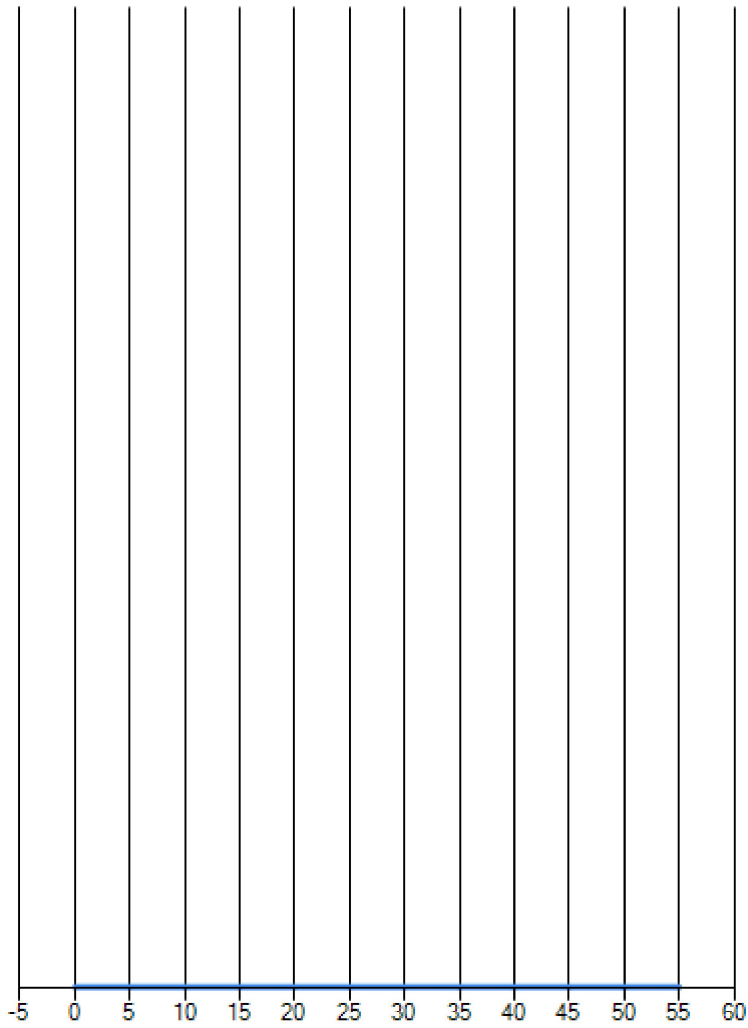
Sideforce basic

SIDE: CyBAS (β, α)

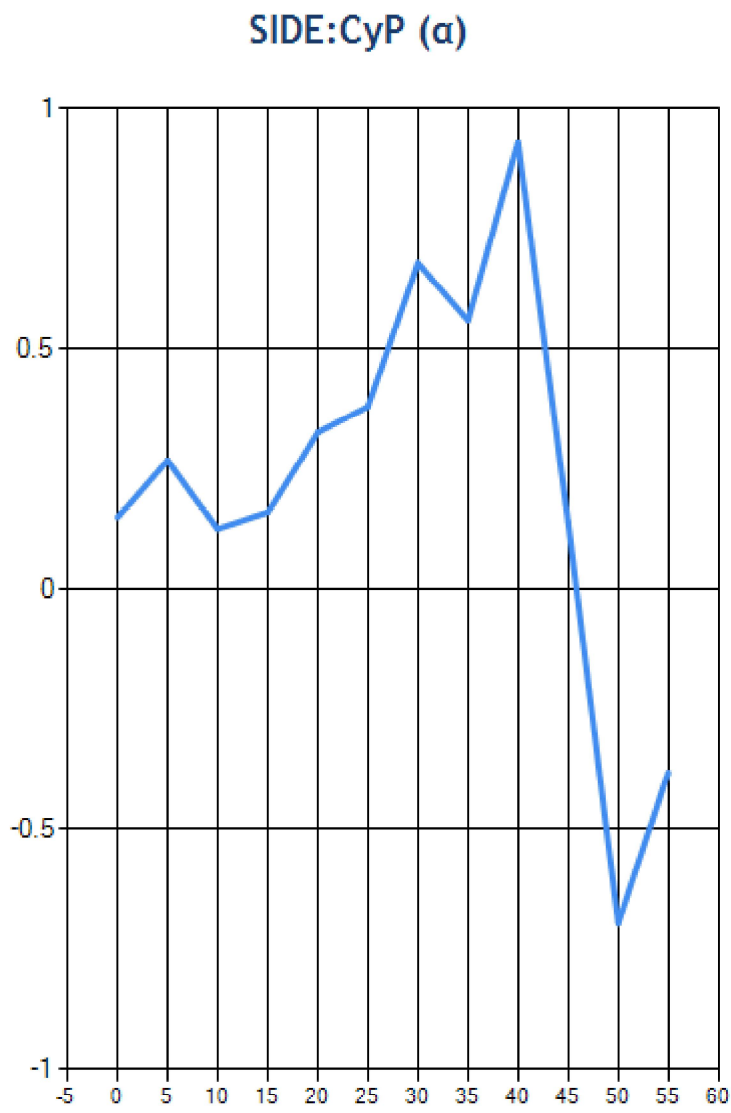


Sideforce tuning

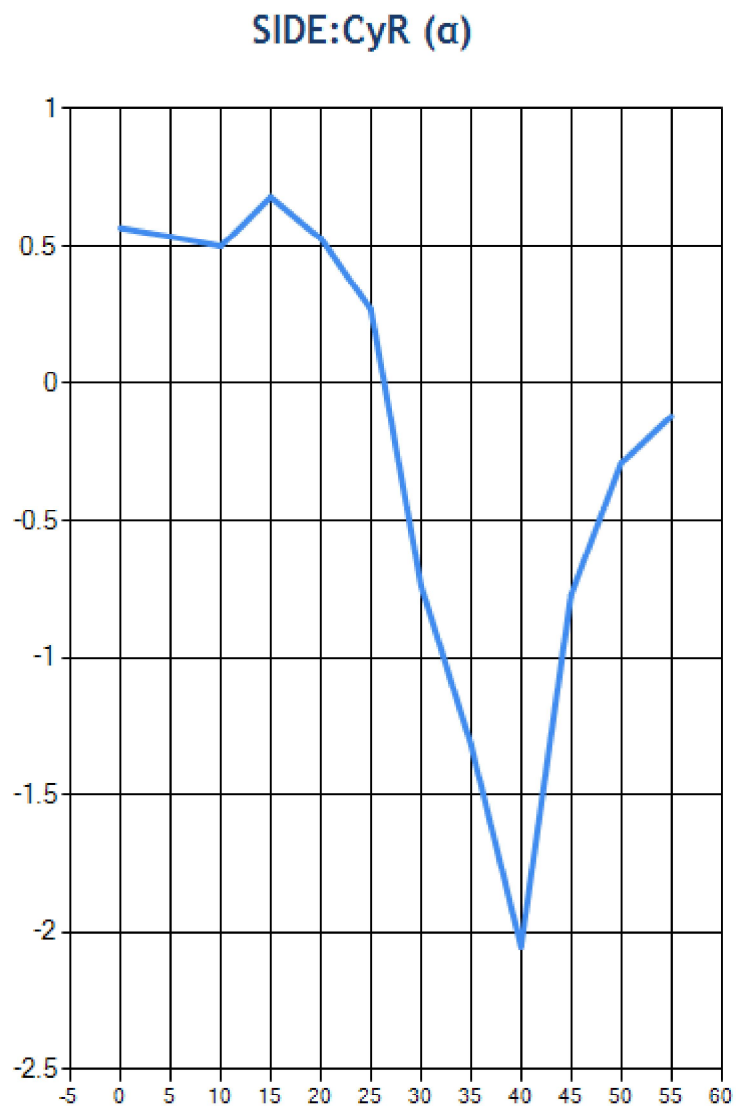
SIDE:DCyB0 (α)



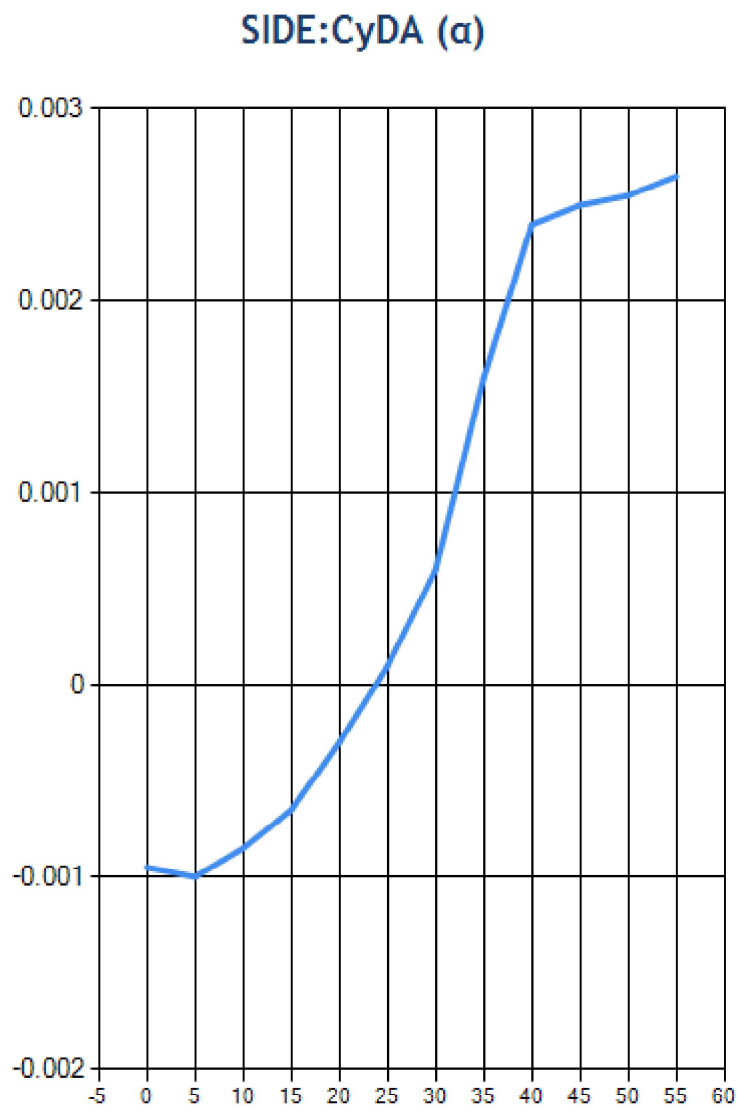
Sideforce due to roll rate



Sideforce due to yaw rate

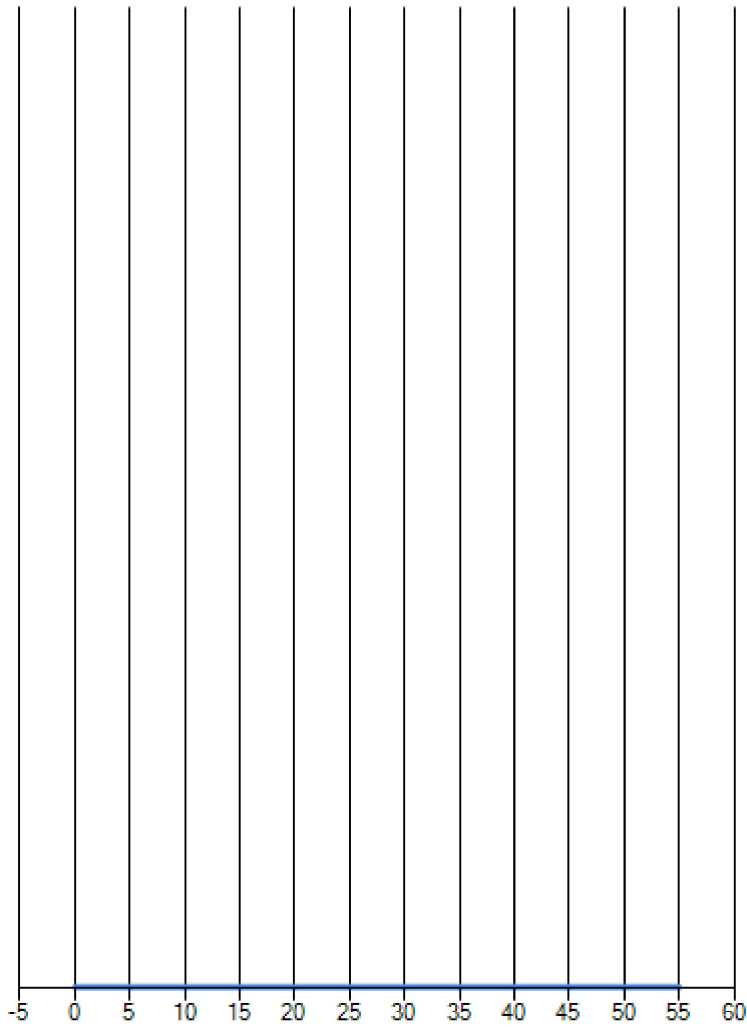


Sideforce due to aileron

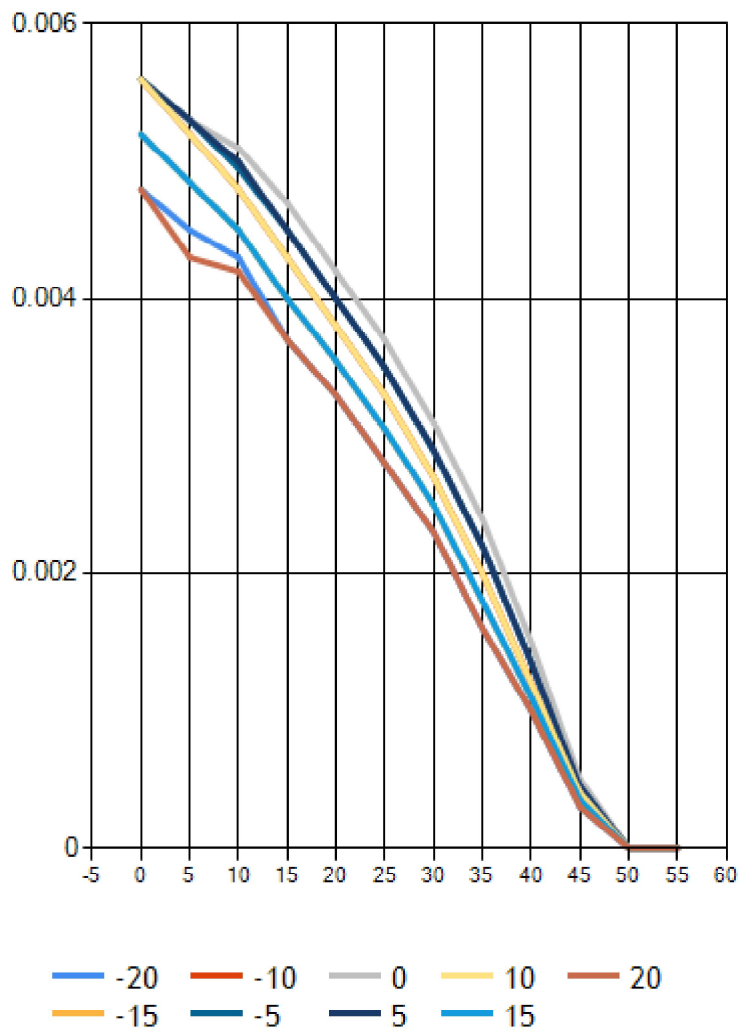


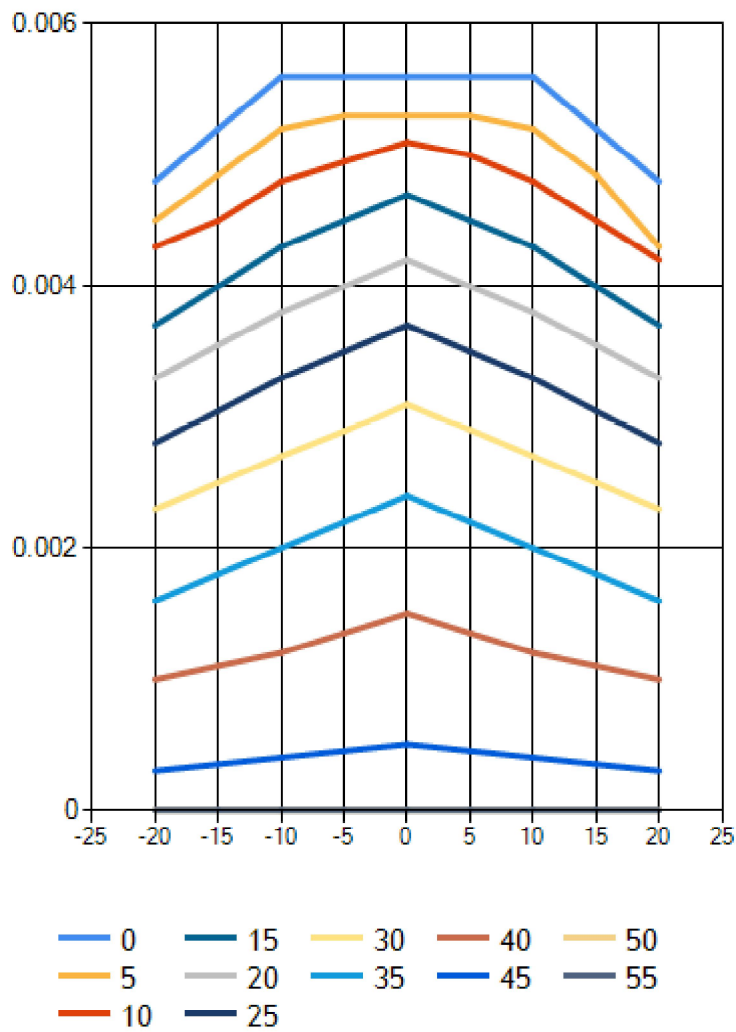
Sideforce due to spoiler deflection (degrees)

SIDE: CyDSP (α)

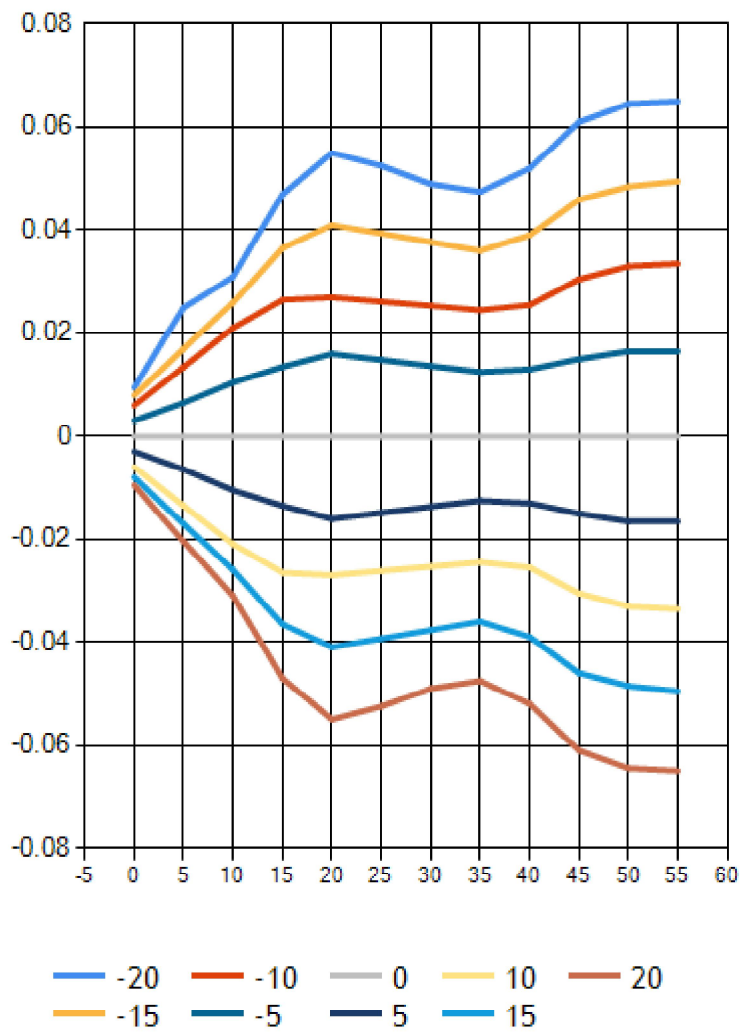


Sideforce due to rudder deflection (degrees)

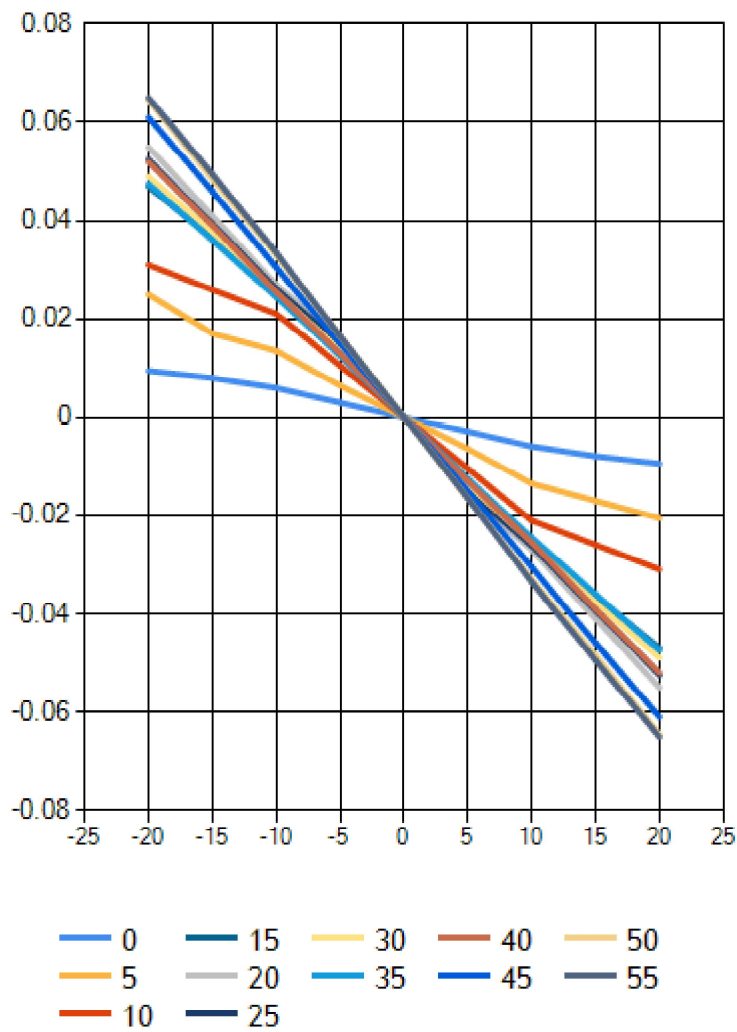
SIDE: CyDR (β, α)

SIDE: CyDR (α, β)

Basic Roll Moment

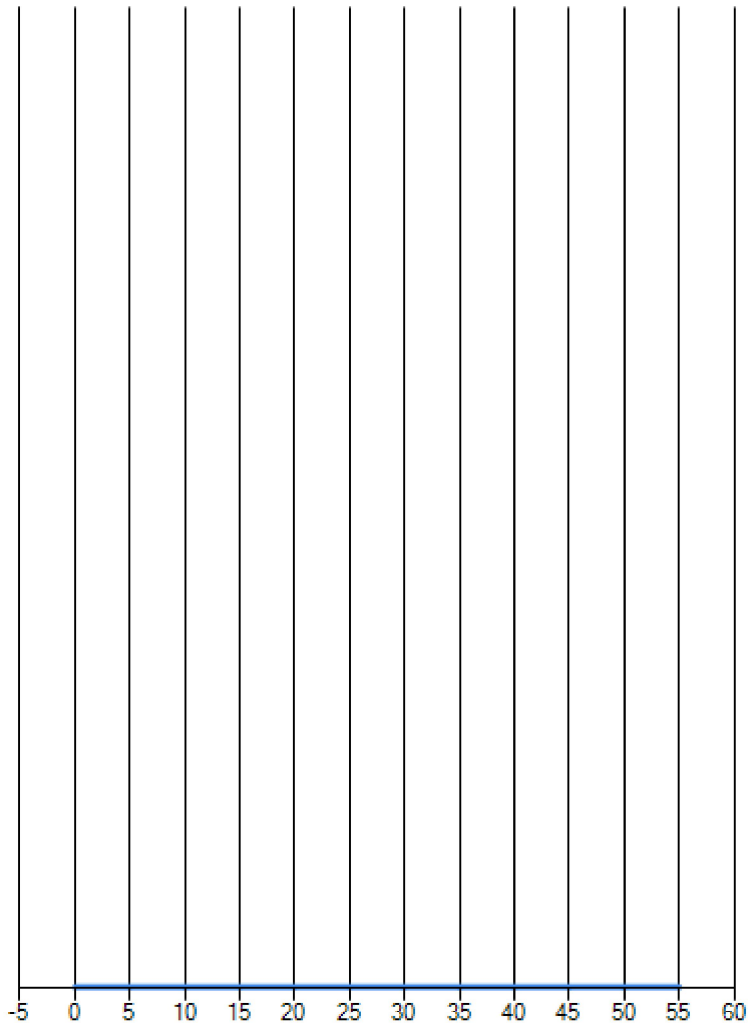
ROLL:CLBAS (β, α)

ROLL:CLBAS (α, β)

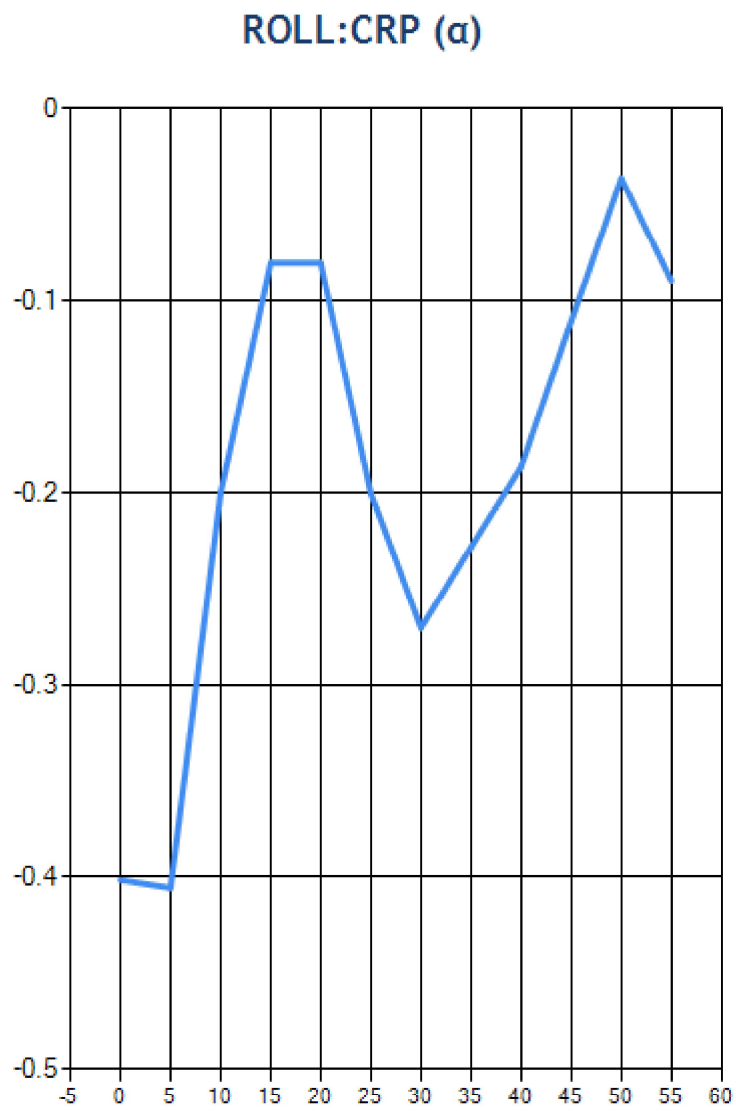


Roll Moment beta increment (tuning)

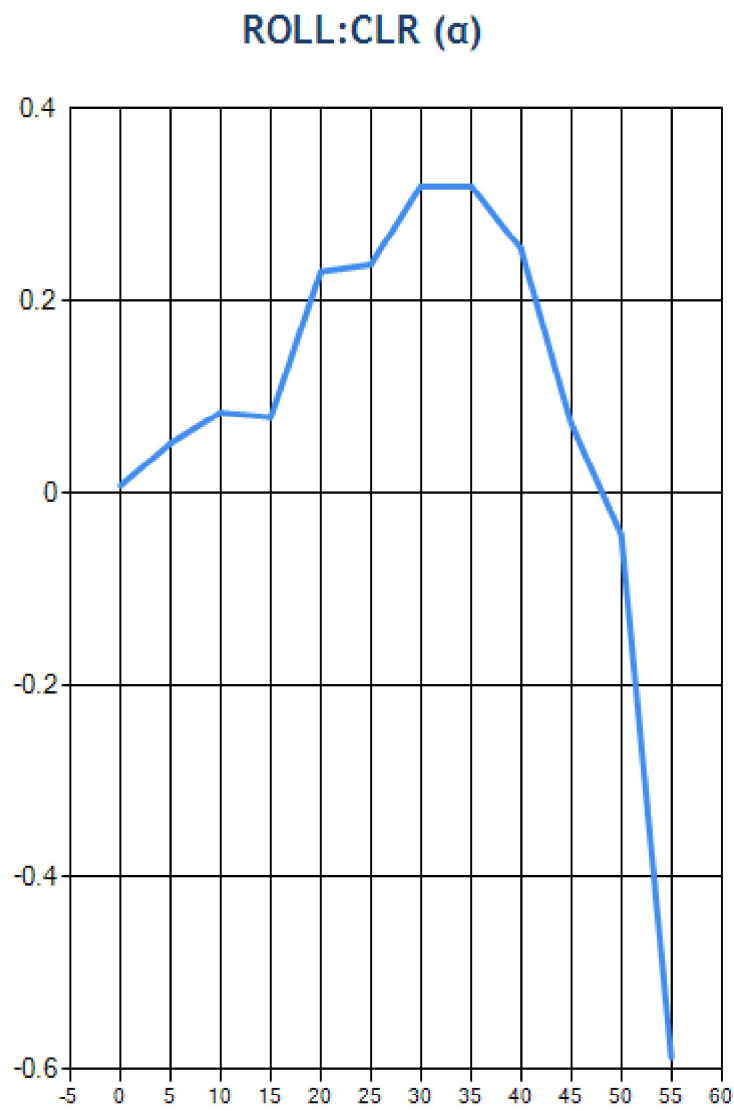
ROLL:DCLB0 (α)



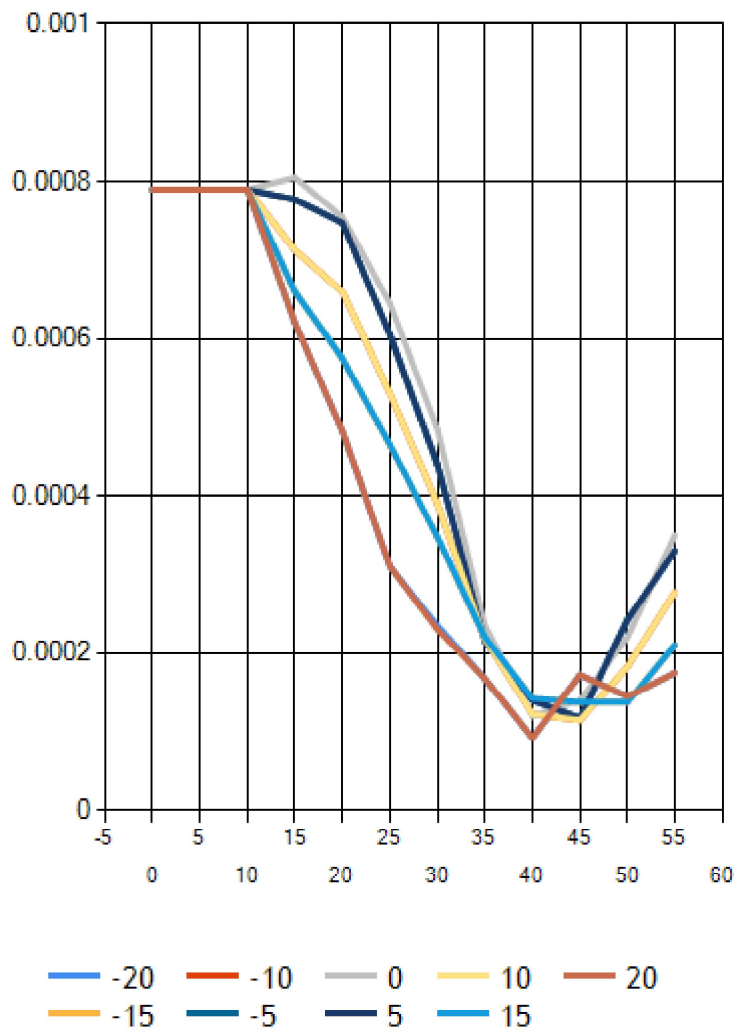
Roll Moment due to roll rate

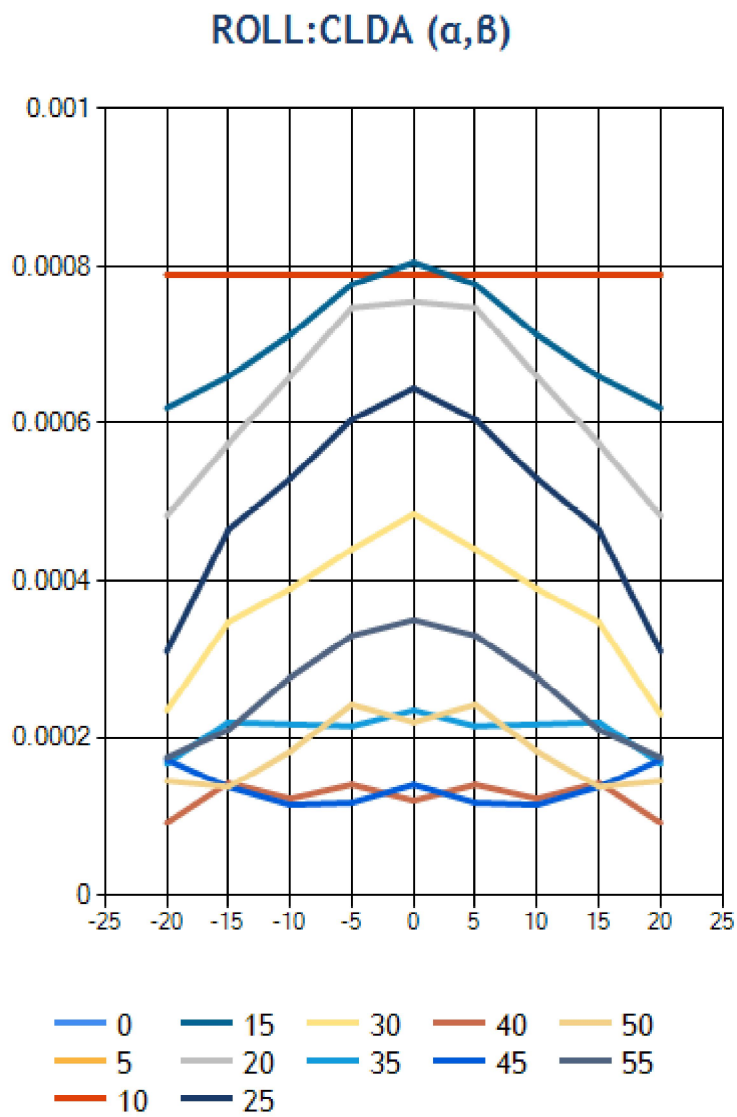


Roll Moment due to yaw rate



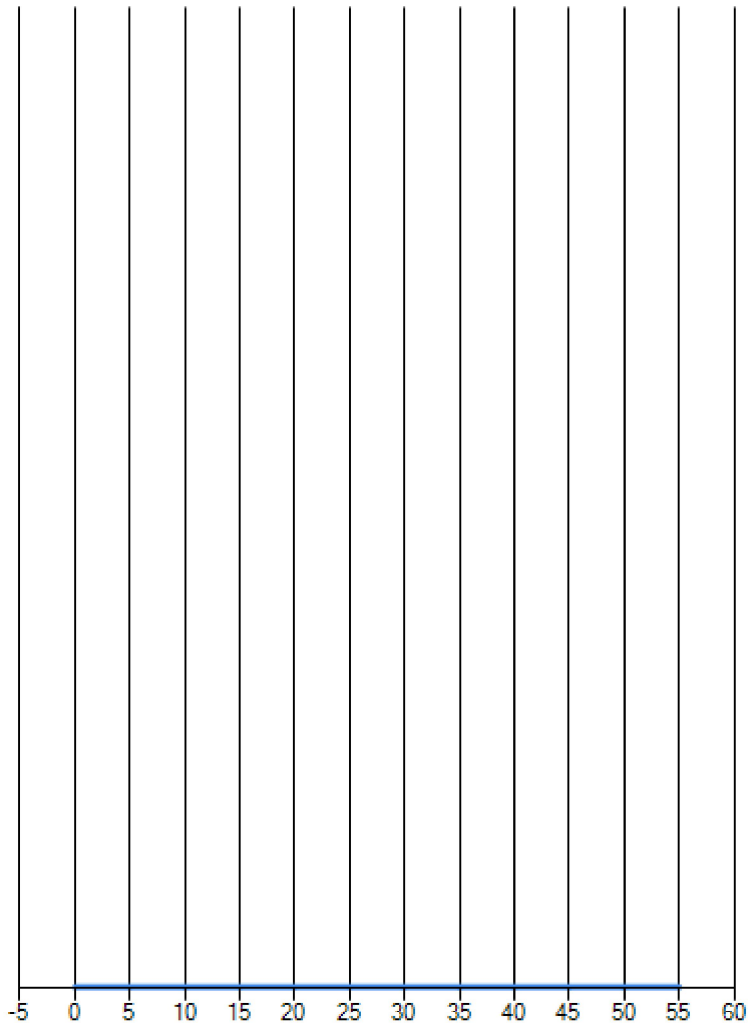
Roll Moment due to aileron deflection (degrees)

ROLL:CLDA (β, α)

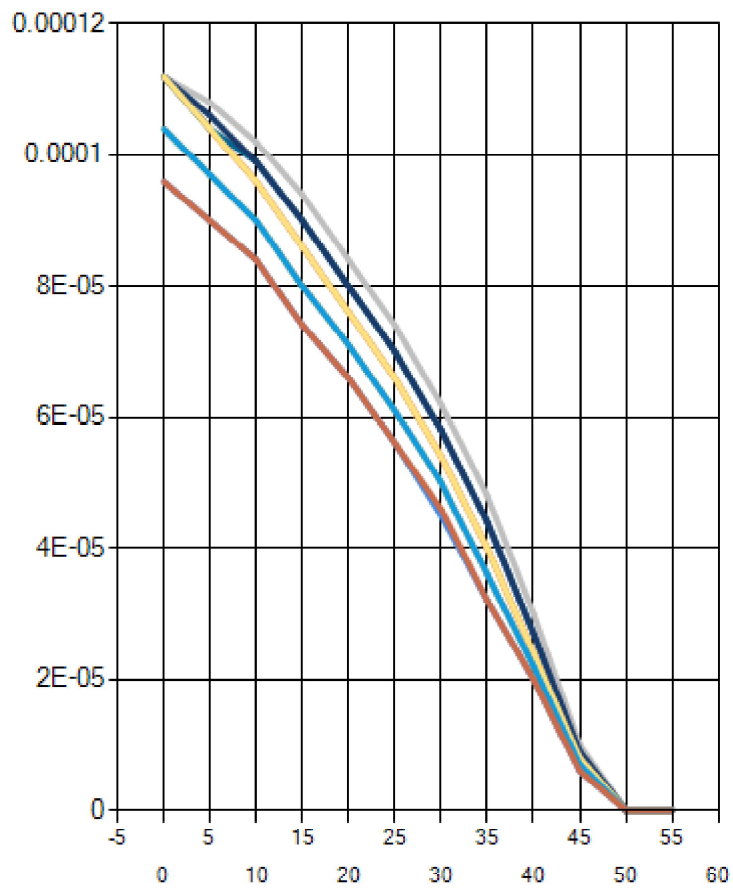


Roll Moment due to spoiler deflection

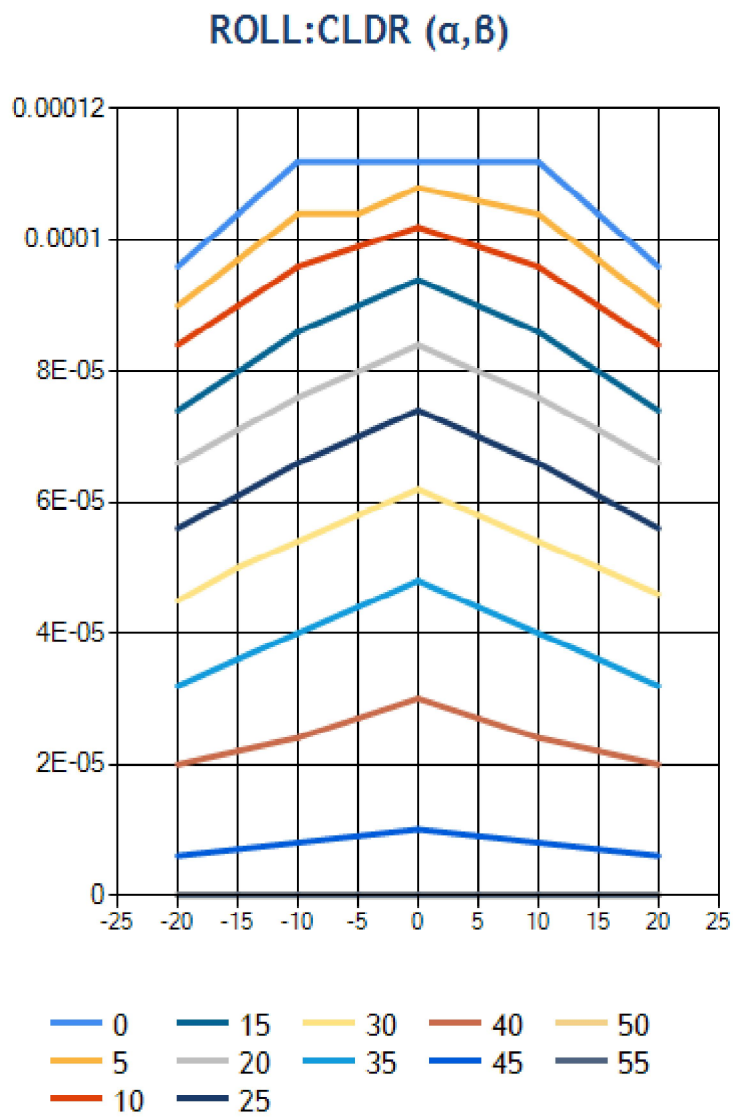
ROLL:CLDSP (α)



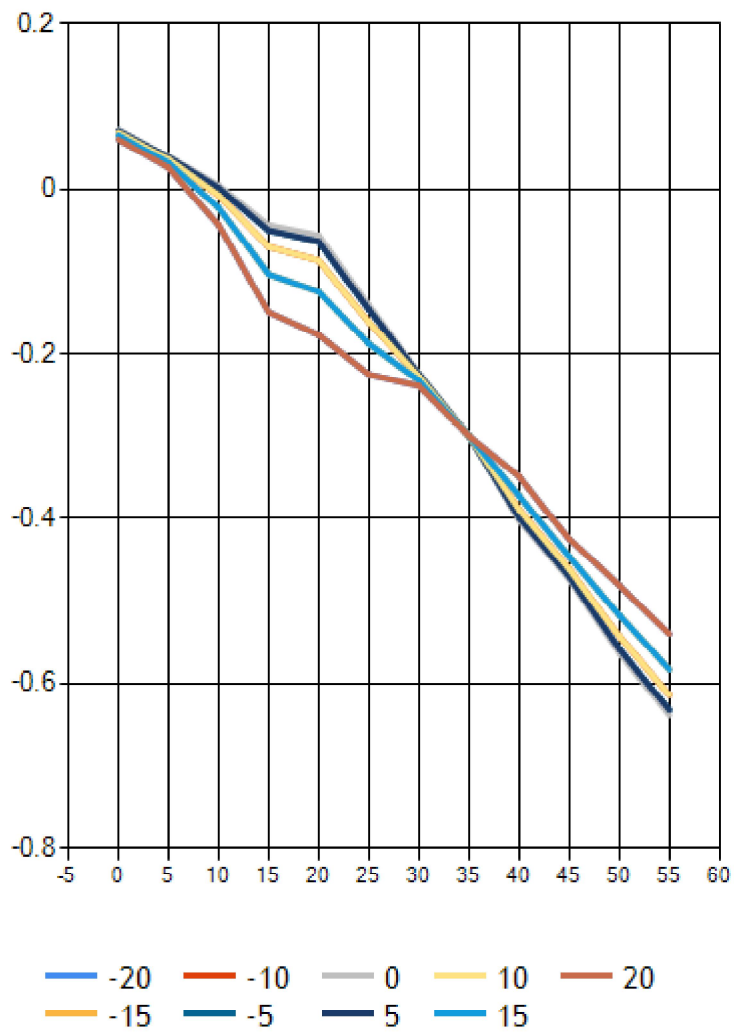
Roll Moment due to rudder deflection rate

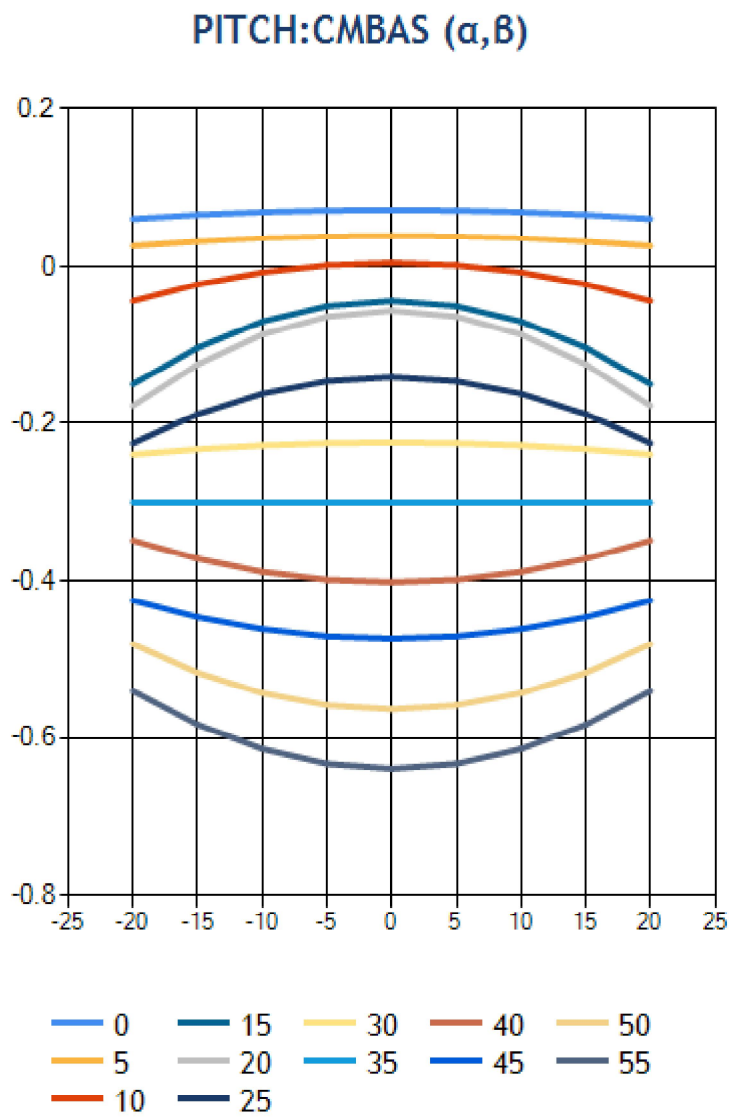
ROLL:CLDR (β, α)

— -20 — -10 — 0 — 10 — 20
— -15 — -5 — 5 — 15

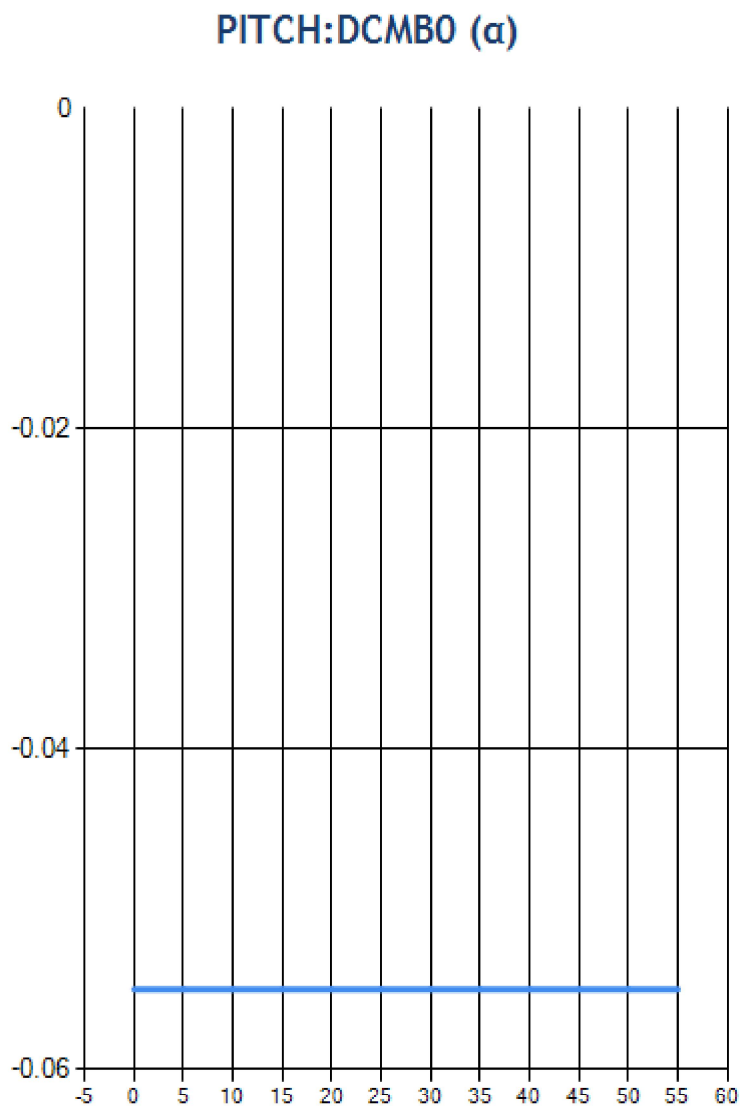


Basic Pitch Moment

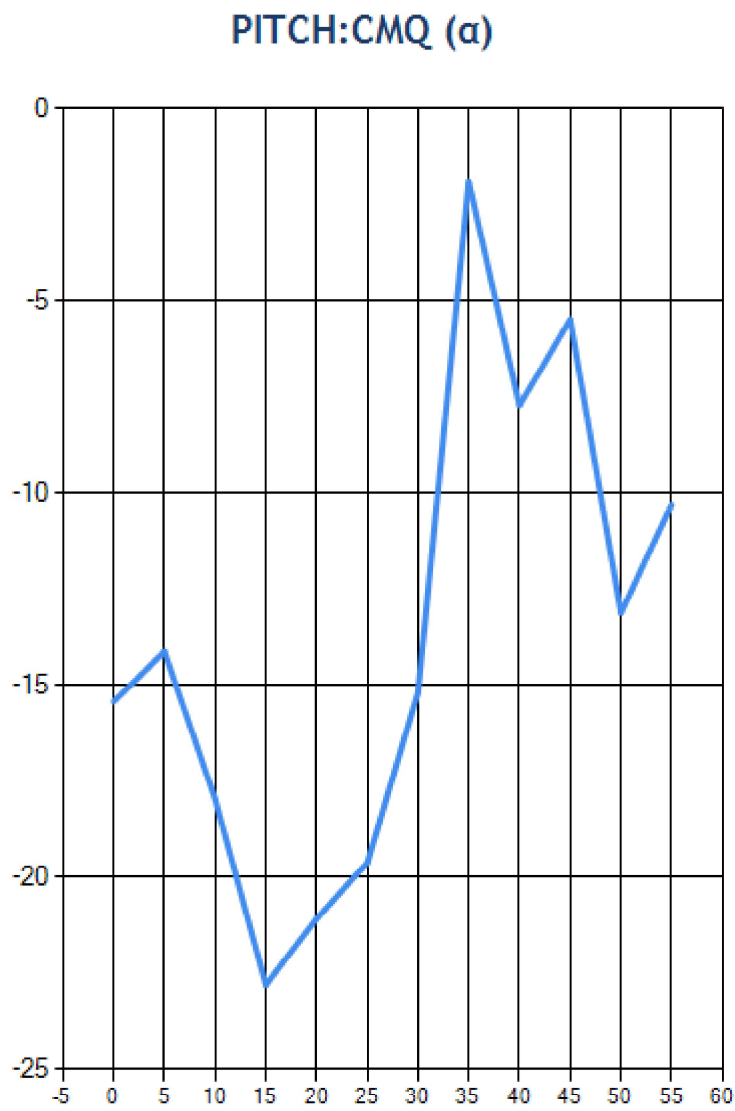
PITCH:CMBAS (β, α)



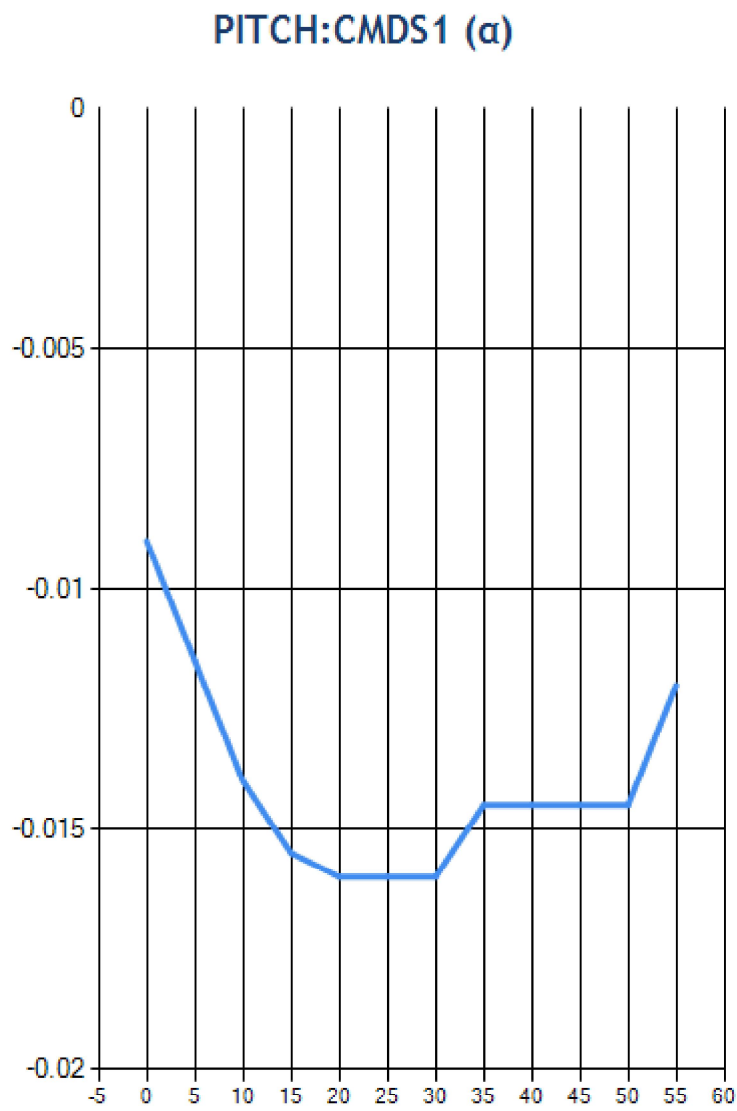
Pitch Moment beta tuning



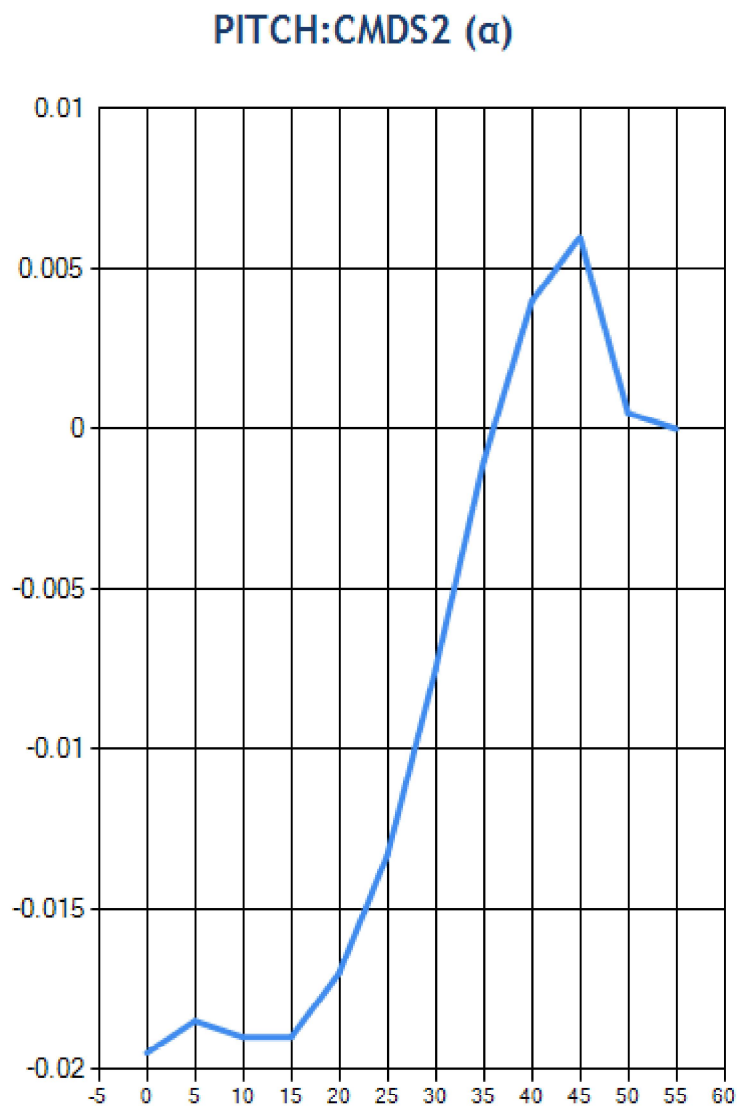
Pitch Moment due to pitch rate



Pitch Moment due to stabilizer deflection for $\delta_s \geq -10$ degrees

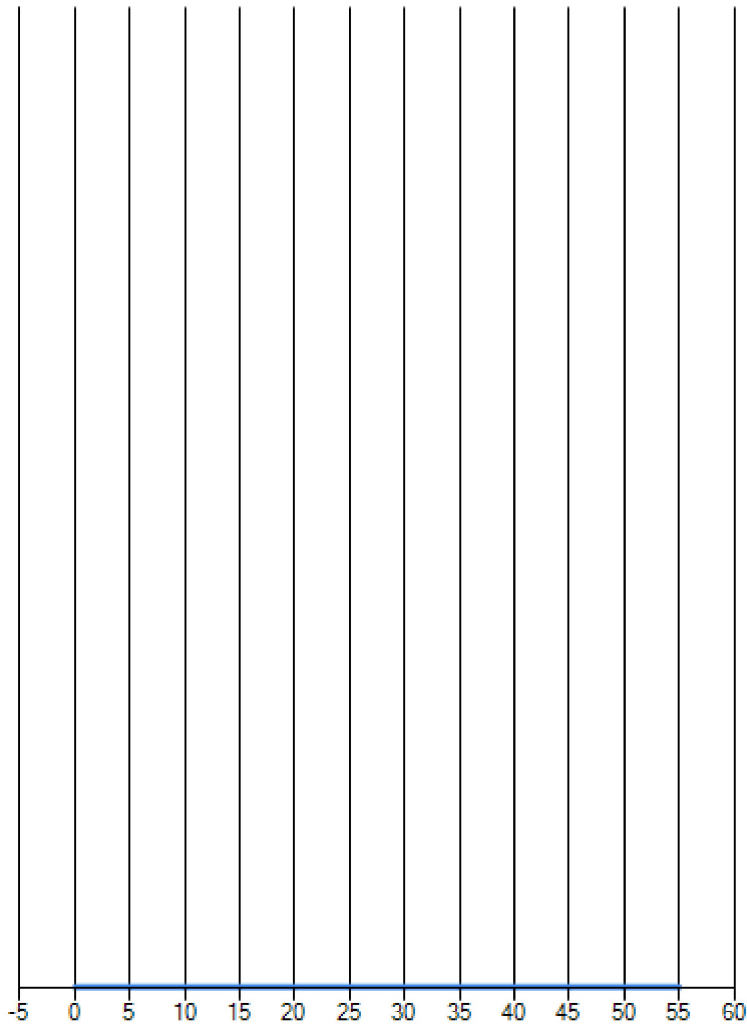


Pitch Moment due to stabilizer deflection for $\delta_s < -10$ degrees

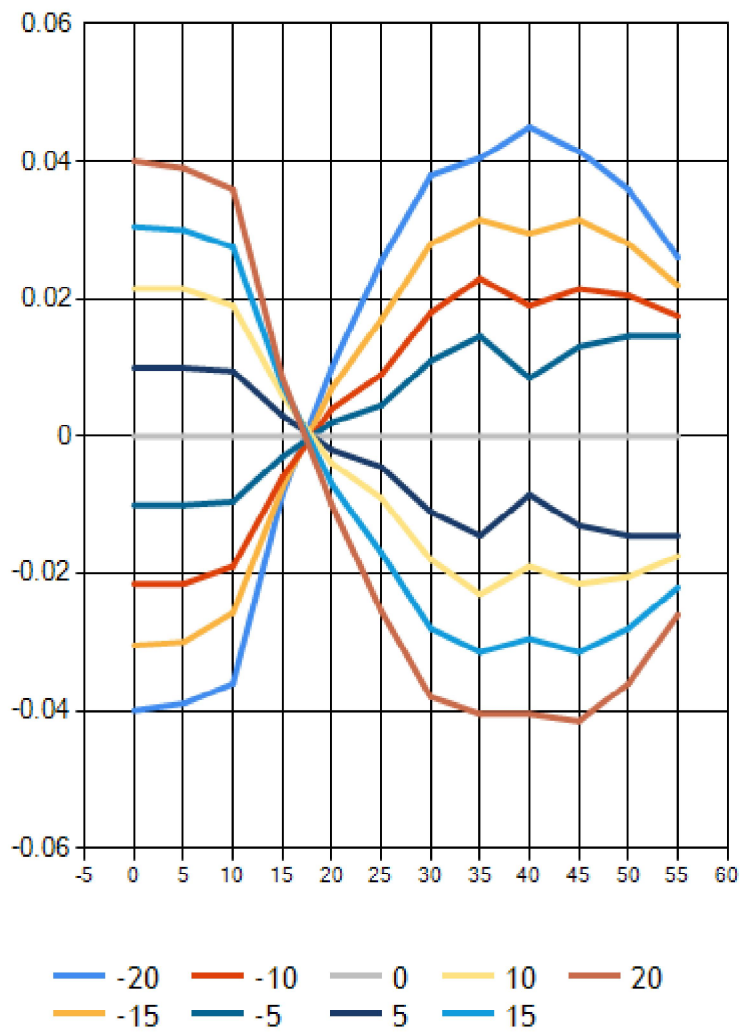


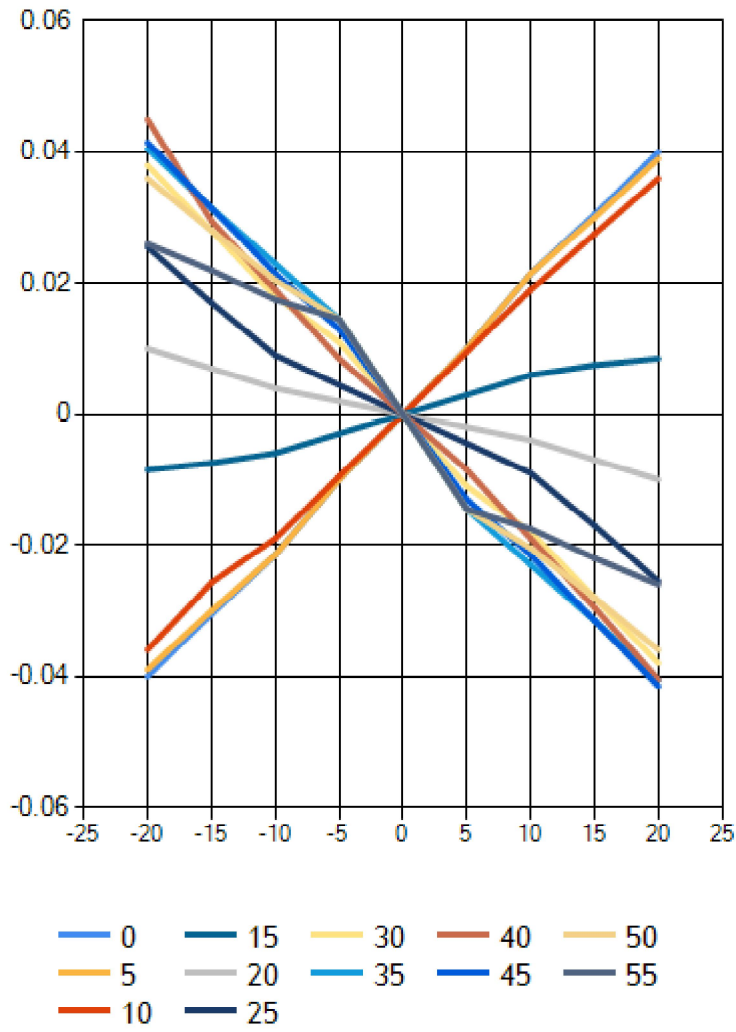
Pitch Moment due to spoiler deflection

PITCH:DCMSP (α)



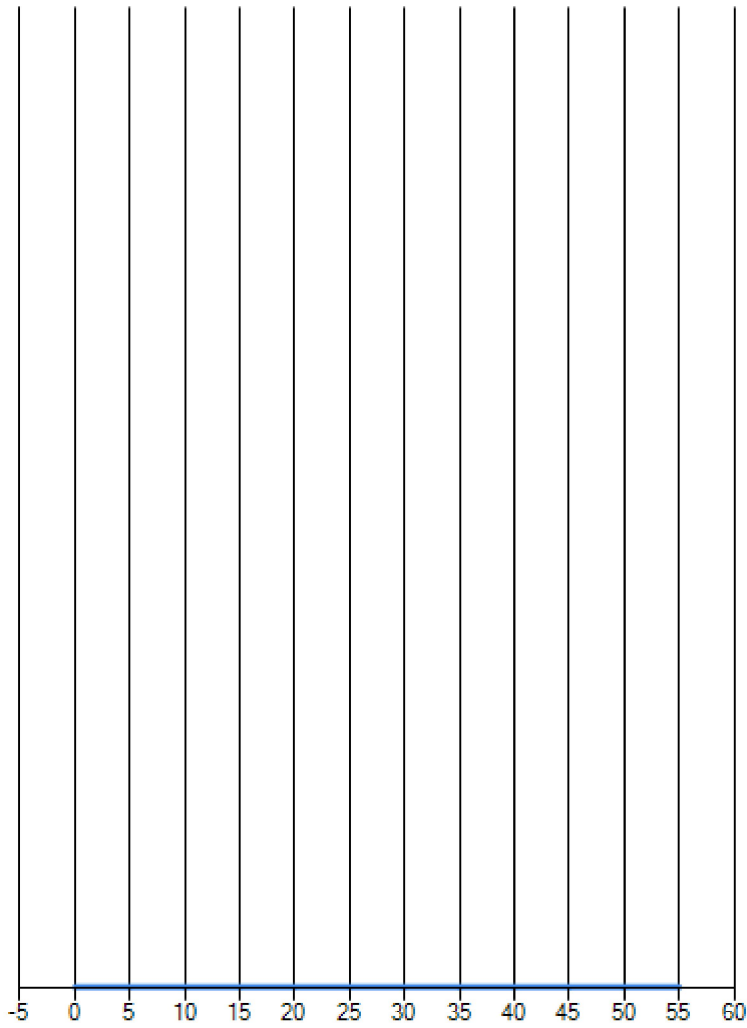
Basic yaw moment

YAW:CNBAS (β, α)

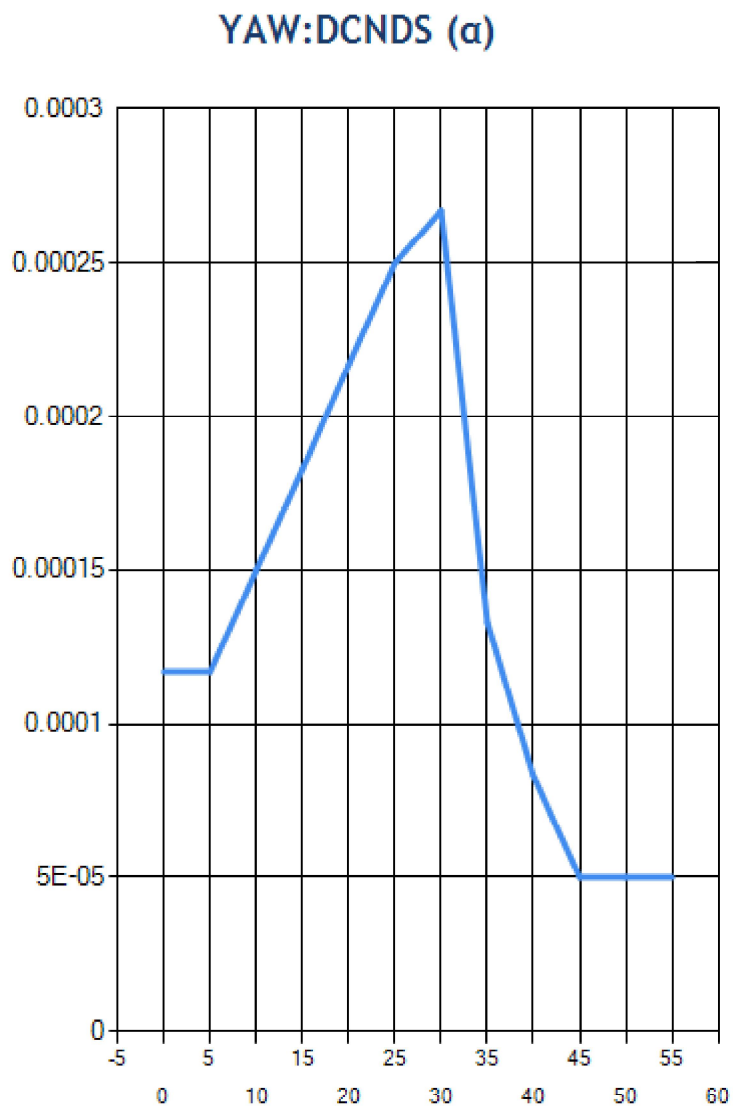
YAW:CNBAS (α, β)

Yaw moment beta increment (tuning)

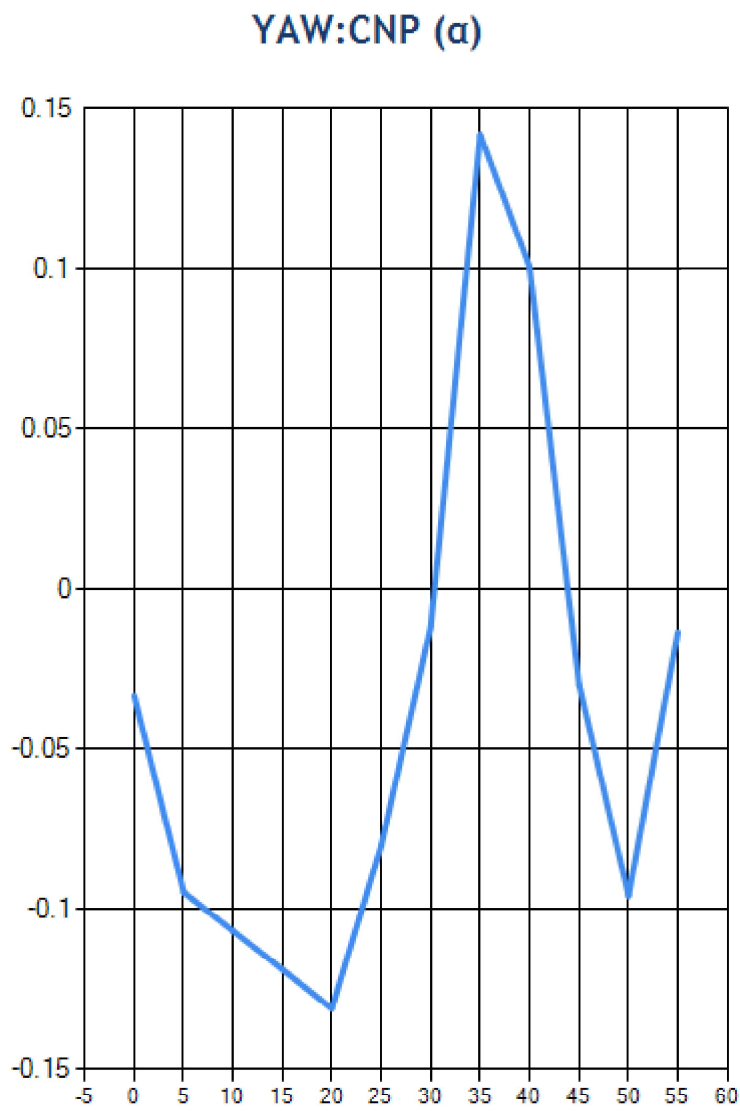
YAW:DCNB0 (α)



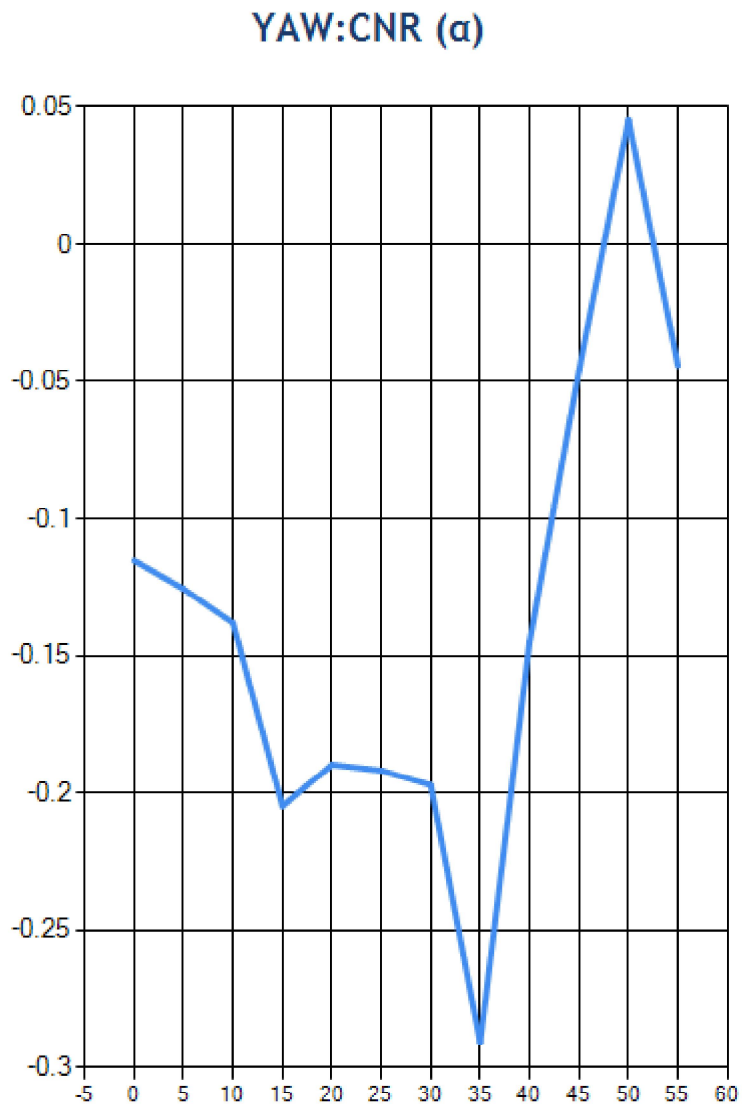
**Yaw moment increment due to beta and stabilzer deflection
(tuning)**



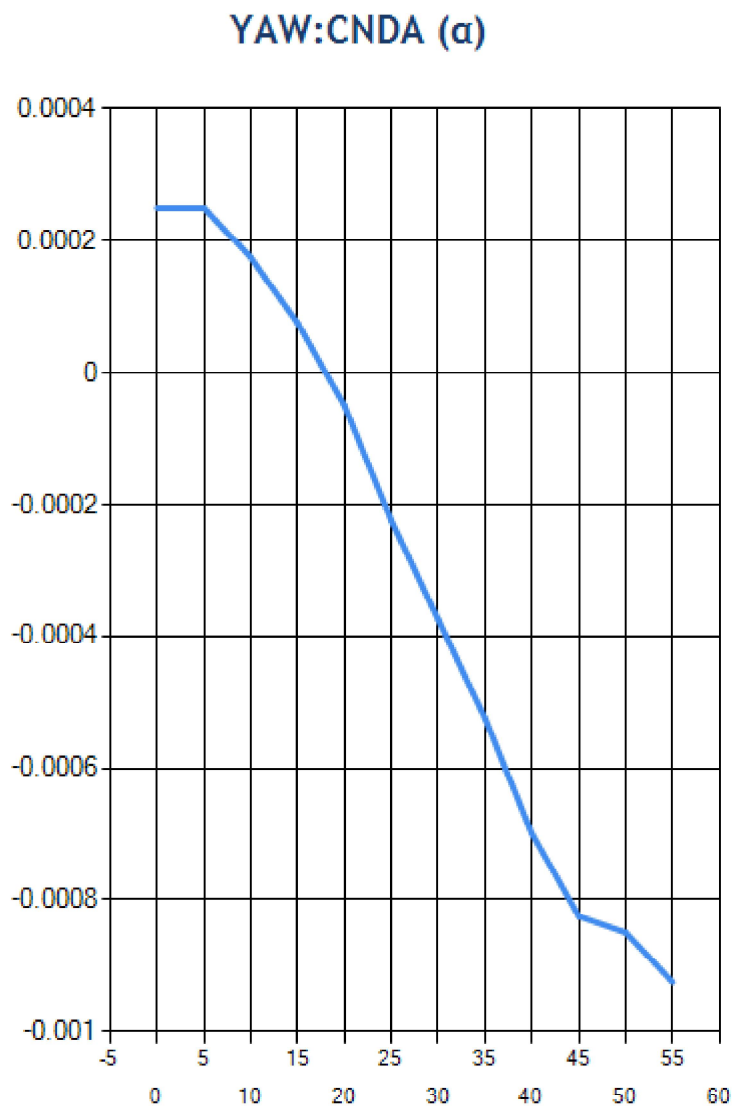
Yaw moment due to roll rate



Yaw moment due to pitch rate

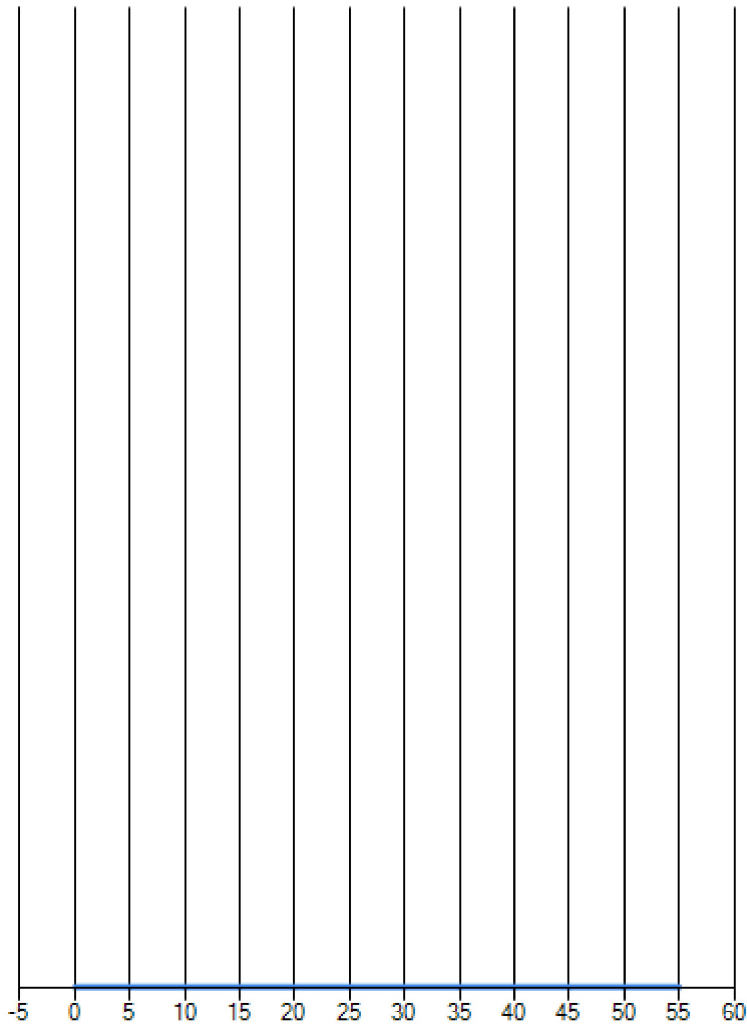


Yaw moment due aileron deflection in degrees



Yaw moment due to spoiler deflection

YAW:CNDSP (α)



Yaw moment due to rudder deflection

