

Profile: ah7476

Information: Althaus AH 7-476 airfoil
Reference: UIUC

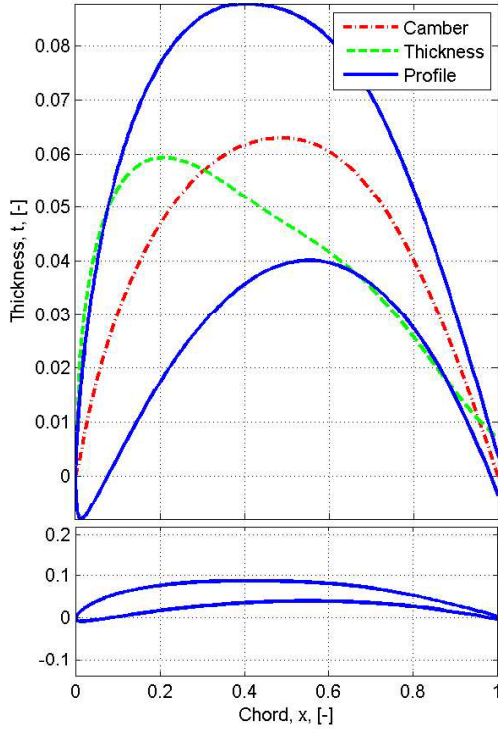


Figure 137: Wing profile with camber and thickness distribution.

Table 177: Geometrical properties

Maximum Thickness:	5.9405	% @0.21C
Maximum Camber:	6.3046	% @0.49C
Trailing Edge Gap:	0.7	%C
Upper nose radius:	0.079989	%C
Lower nose radius:	0.87837	%C
Boat-Tail Angle:	3.6763	deg
Release Angle:	13.5158	deg
Nose Incidence:	8.4496	deg
Camber deflection:	21.9654	deg

Table 178: Controlpoints

1	-0.0035
0.51304	0.097146
0.071788	-0.00794
0.01254	-0.00794
0.010072	-0.00794
0	-0.0076798
0	0
0	0.0047147
0.041684	0.0878
0.3996	0.0878
0.65964	0.0878
0.77348	0.065699
1	0.0035

Table 179: Base 64 representation:

D4ack9NBEDuhE1S

Table 180: Representation errors $CL = 0.3$, $Re = 6 \cdot 10^6$

	Control points	Base64	
RMS position error:	7.241	10.766	ects
RMS curvature error:	34.29	35.59	%
CD error	-7.8	-60.1	dcts
Cm error	155	90	mcts
Upper transition point	-1.25	-0.42	%

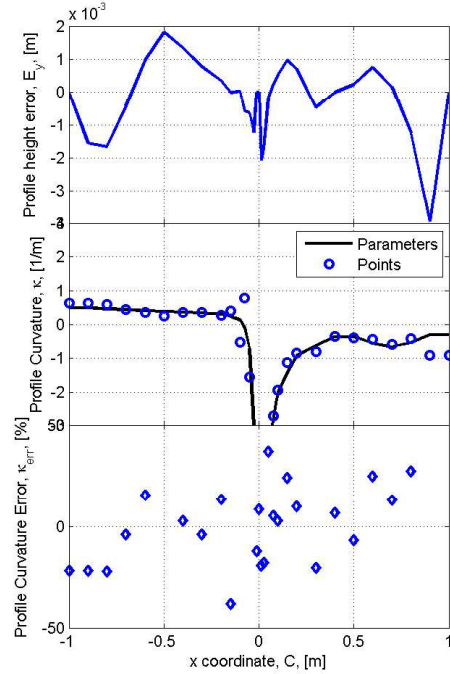


Figure 138: Error distribution of vertical position and curvature of the parameter curve.

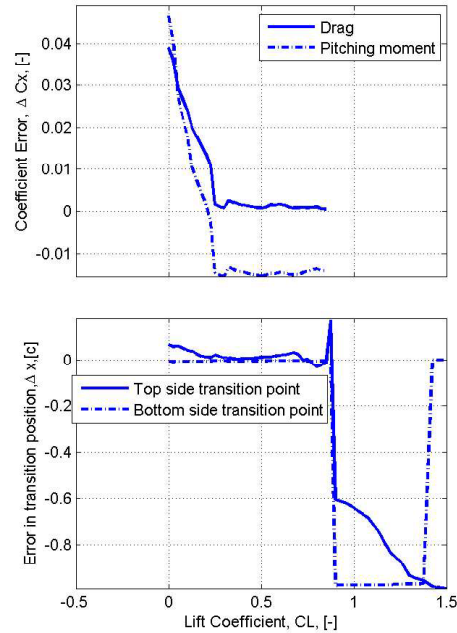


Figure 139: Error distribution of drag- and pitching moment, as well as the error of top and bottom transition points.