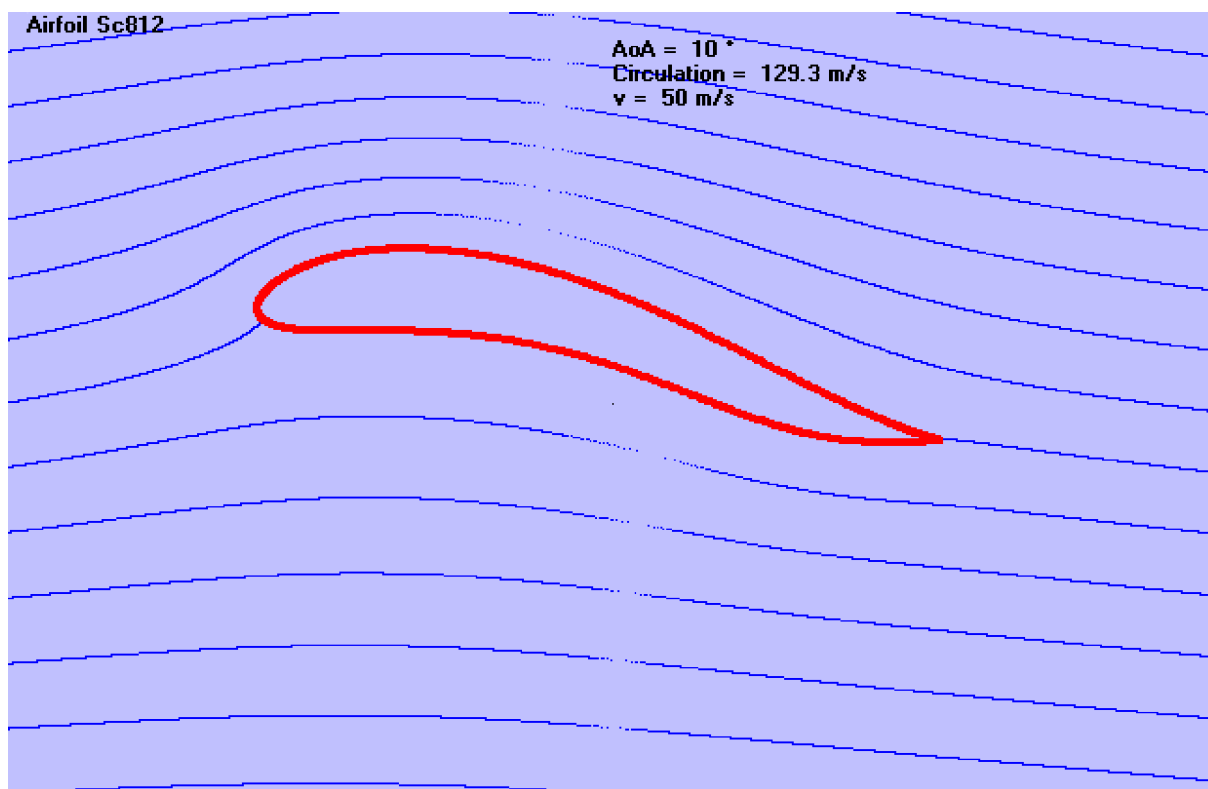


Daten des Flügelprofils Sc812



Sc812 Airfoil

01-20-2009 (c) Forschungskontor, Dipl.-Ing. Kapt.(AG) Wolf Scheuermann
 Aerodynamic - Conformal Mapping - Complex Potential

z : circle centered on m_1 with radius 1

intermediate v.Mises Airfoil: $z_1 = z + b_1/z + b_2/z^2$

Theodorsen Airfoil: $z_2 = z_1 + a_1/z_1 + a_2/z_1^2 + a_3/z_1^3$

-0.12050 = Re(m_1)

0.29210 = Im(m_1)

-0.00730 = Re(b_1)

-0.05190 = Im(b_1)

0.00180 = Re(b_2)

0.00000 = Im(b_2)

0.70310 = Re(a_1)

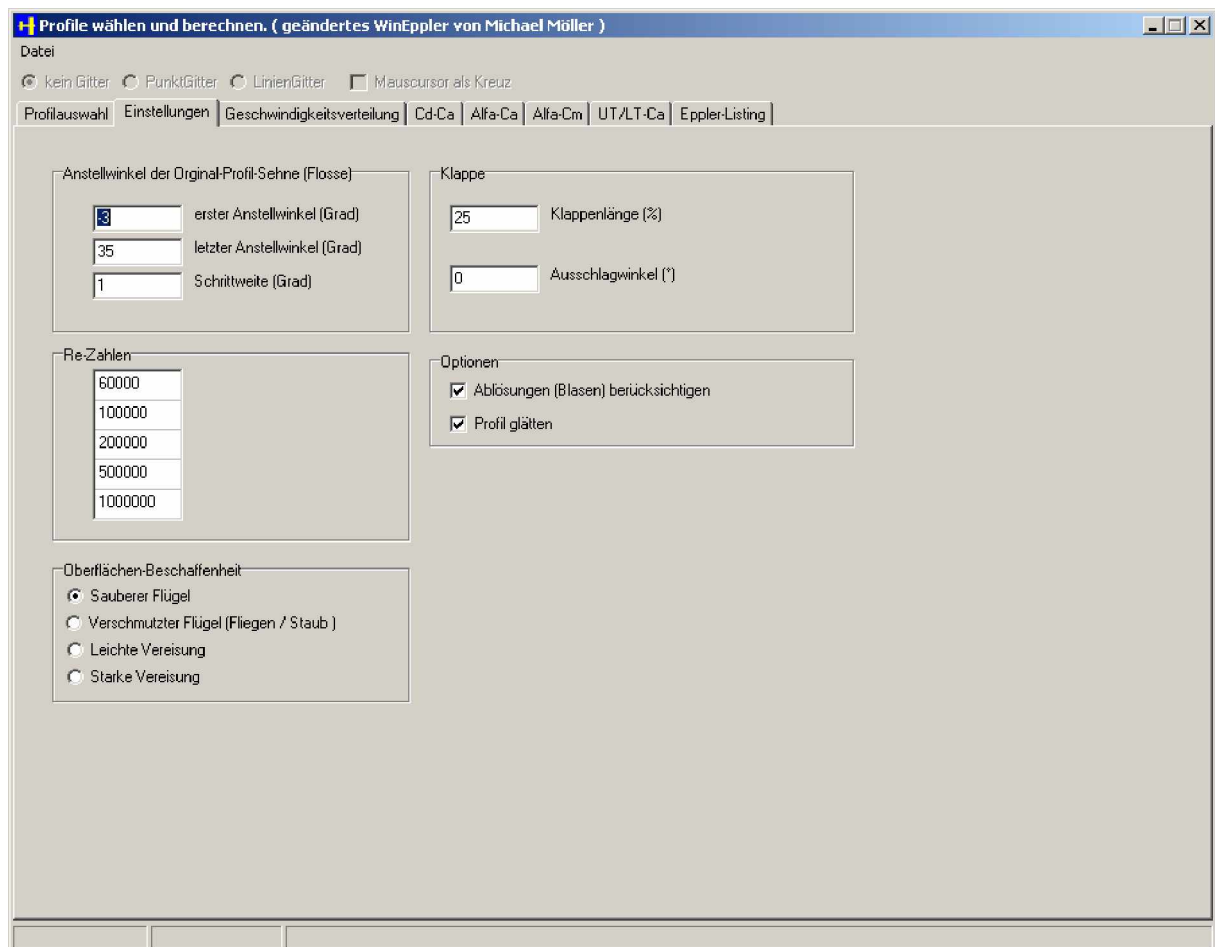
-0.30220 = Im(a_1)

0.00030 = Re(a_2)

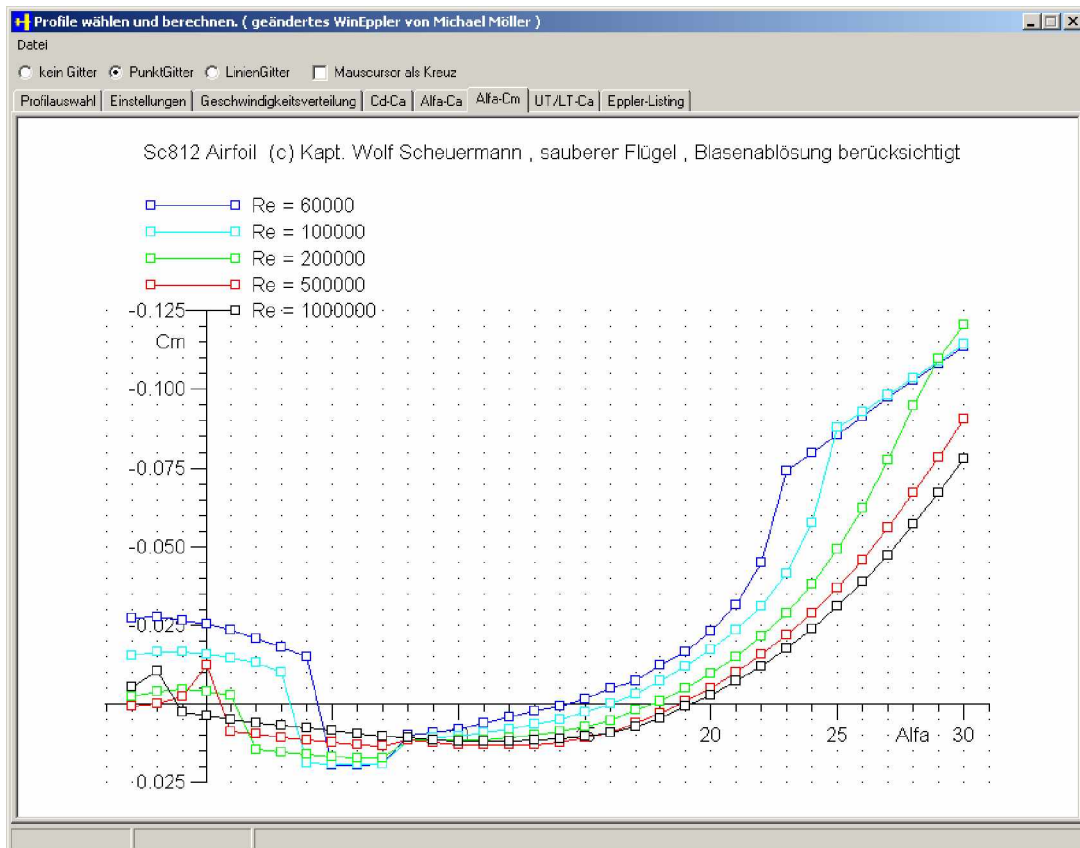
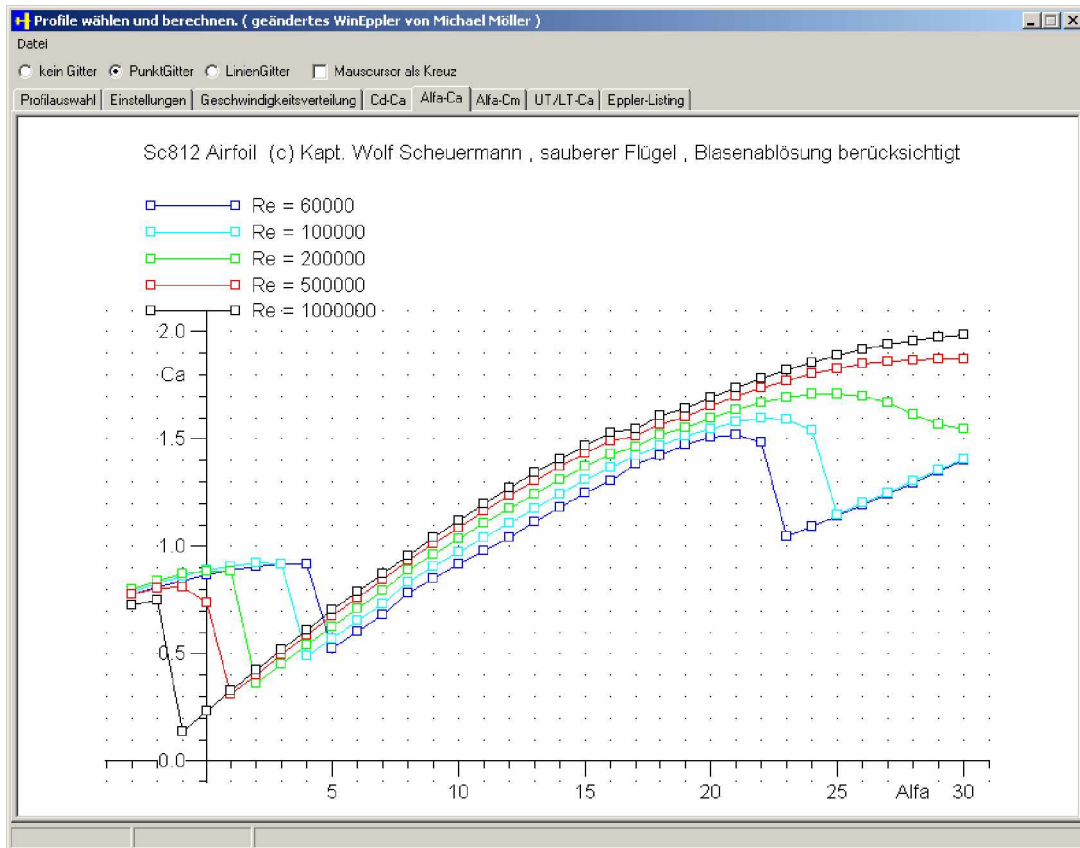
0.12590 = Im(a_2)

-0.00430 = Re(a_3)

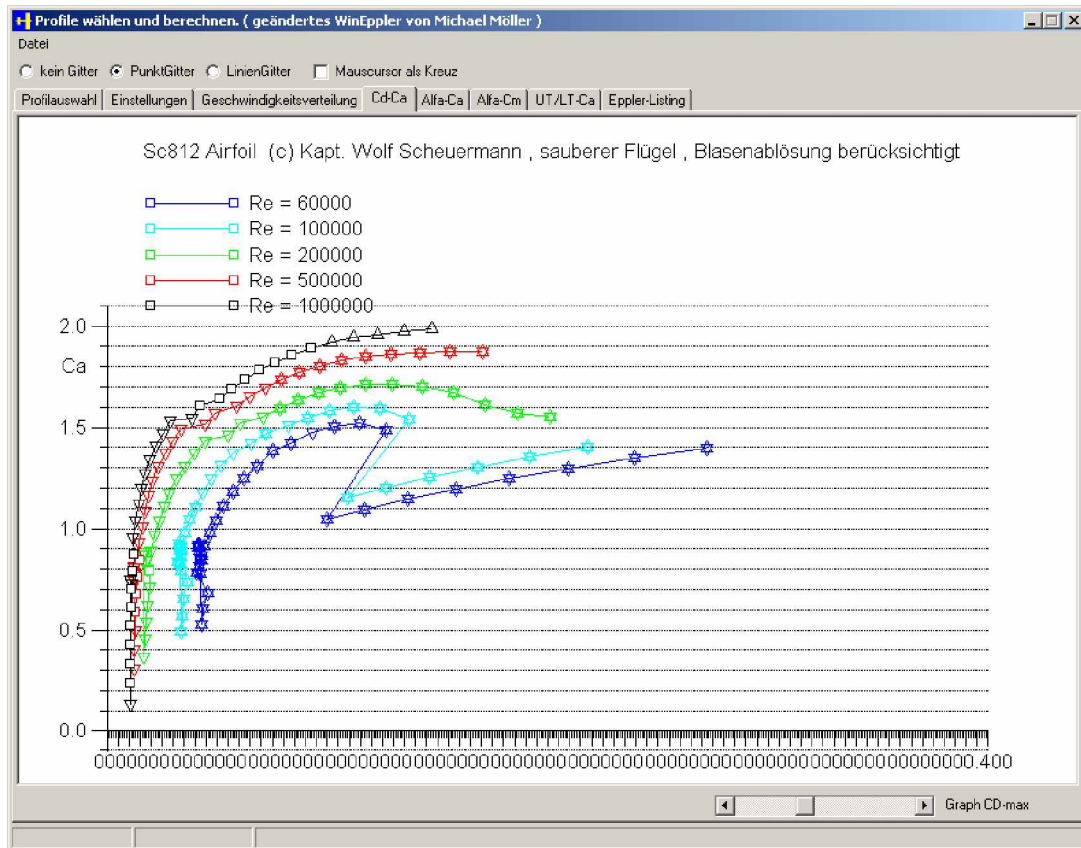
0.00000 = Im(a_3)



Flügelprofil Sc812



Flügelprofil Sc812



Michael Möller's Nurflügel Version 1.2

Tragflächenprofile

Alle Profildateien

- SC418.DAT
- SC512.DAT
- SC715.DAT
- SC812.DAT

Sc812 Airfoil (c) Kapt. Wolf Scheuermann

Anzahl Koordinaten: 194

d =	12.06 %
xd =	20.42 %
f =	8.045 %
xf =	34.7 %
alpha-0 =	-2.323 °
cm0.25 =	-0.0001661
dca =	7.012
xnp =	25.5 %
ae =	5.59 °
cae =	0.8683

The screenshot shows the software interface for the Sc812 airfoil. It displays a file explorer with the 'SC812.DAT' file selected. Below the file list, a table of aerodynamic parameters is shown, including the airfoil's geometry (d, xd, f, xf) and performance characteristics (alpha-0, cm0.25, dca, xnp, ae, cae).