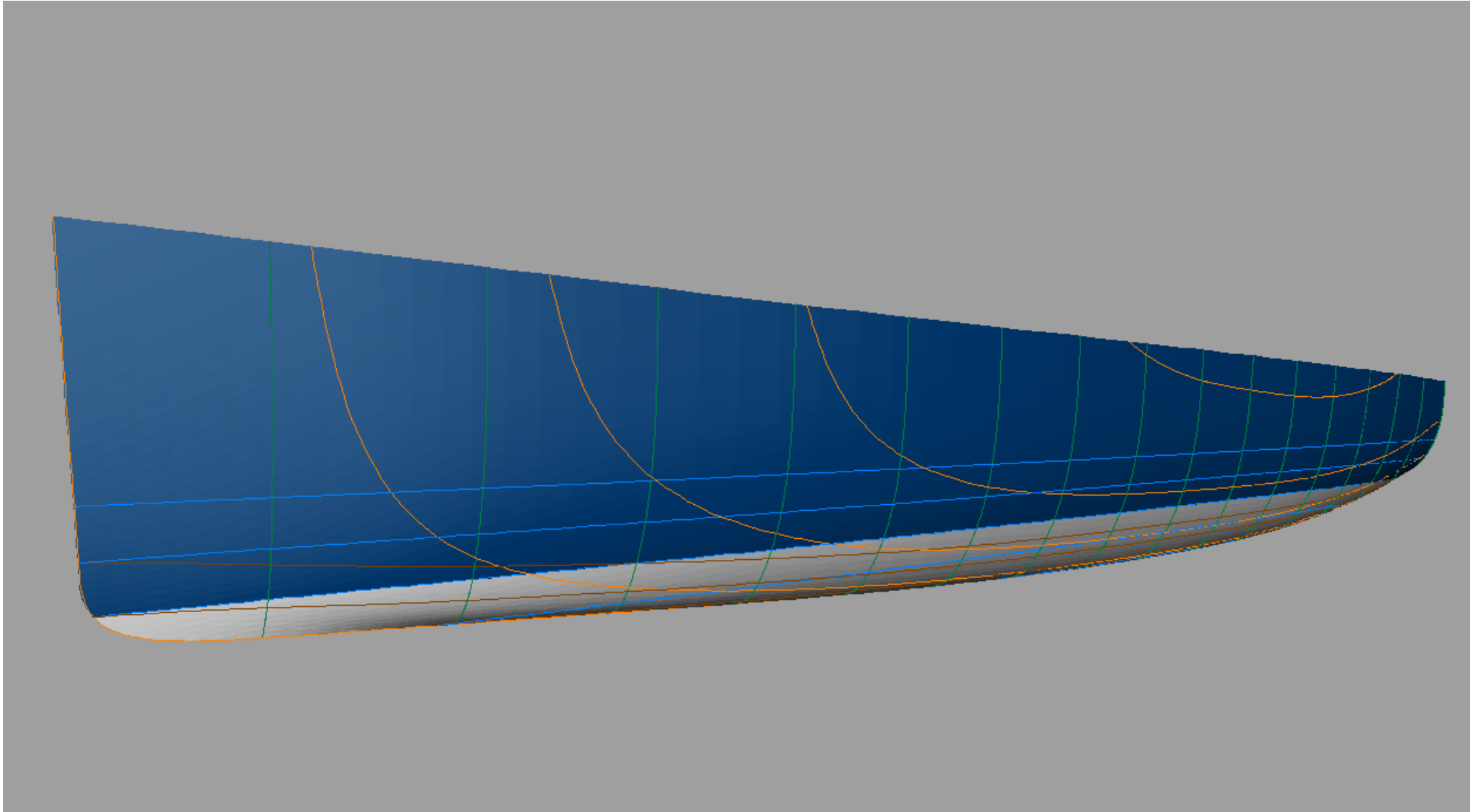
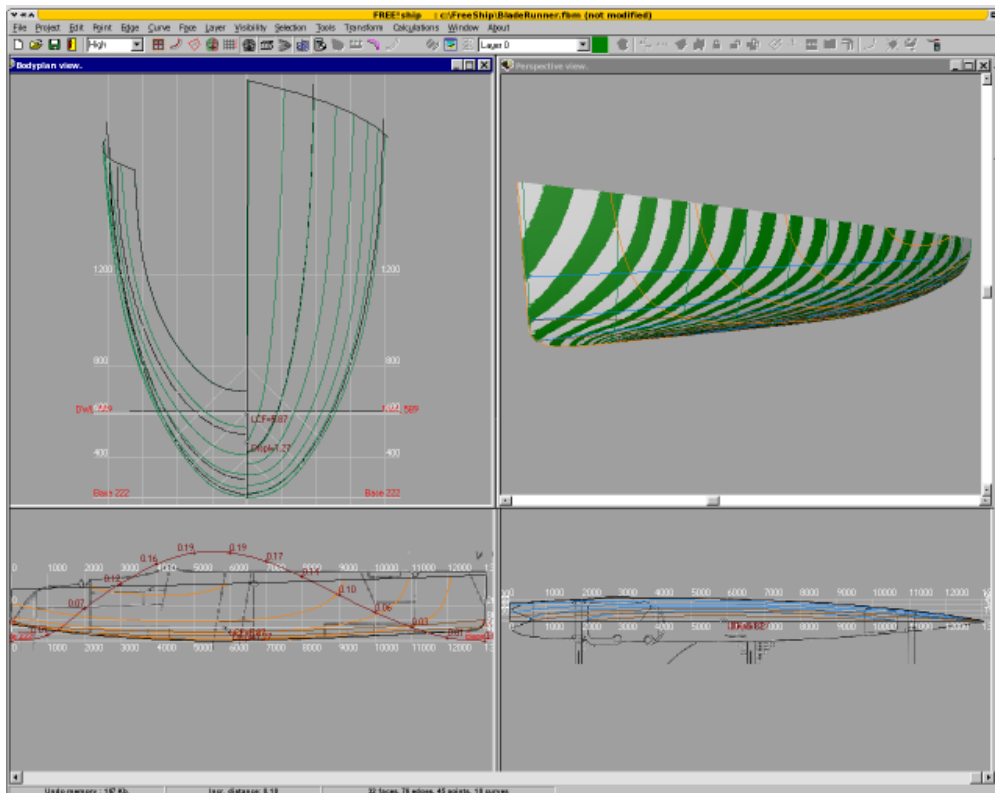


Afterburner recklessly modelled

by Martin Schön, Feb. 4, 2007

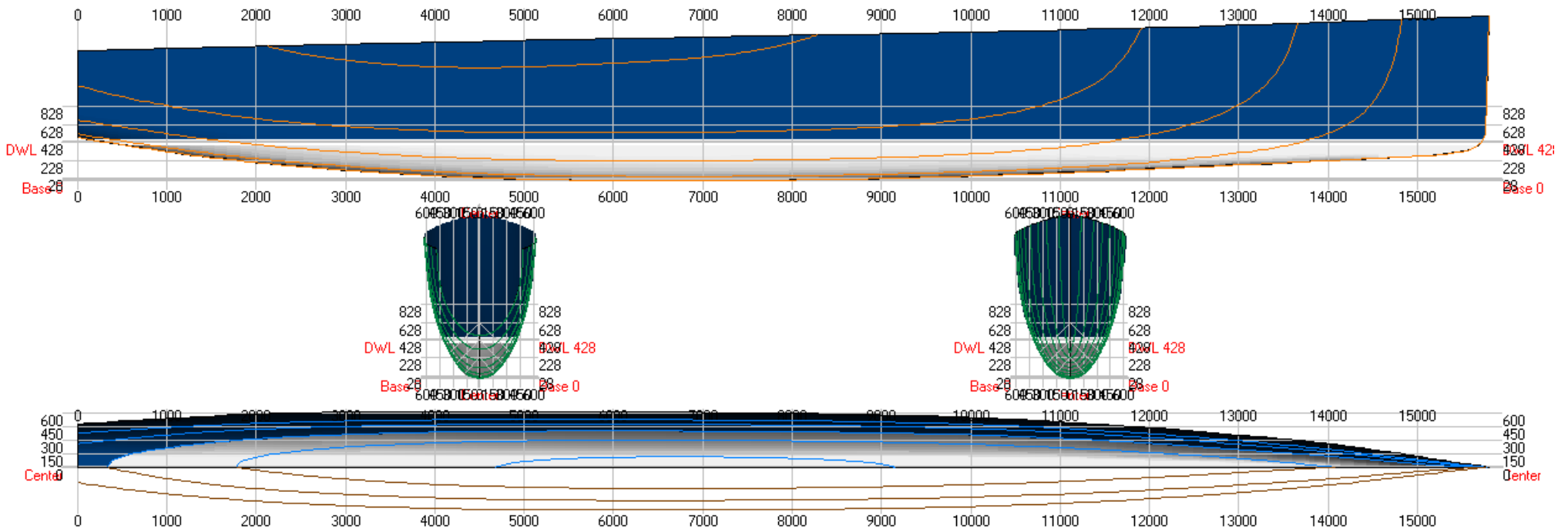


Modelling hull using Freeship

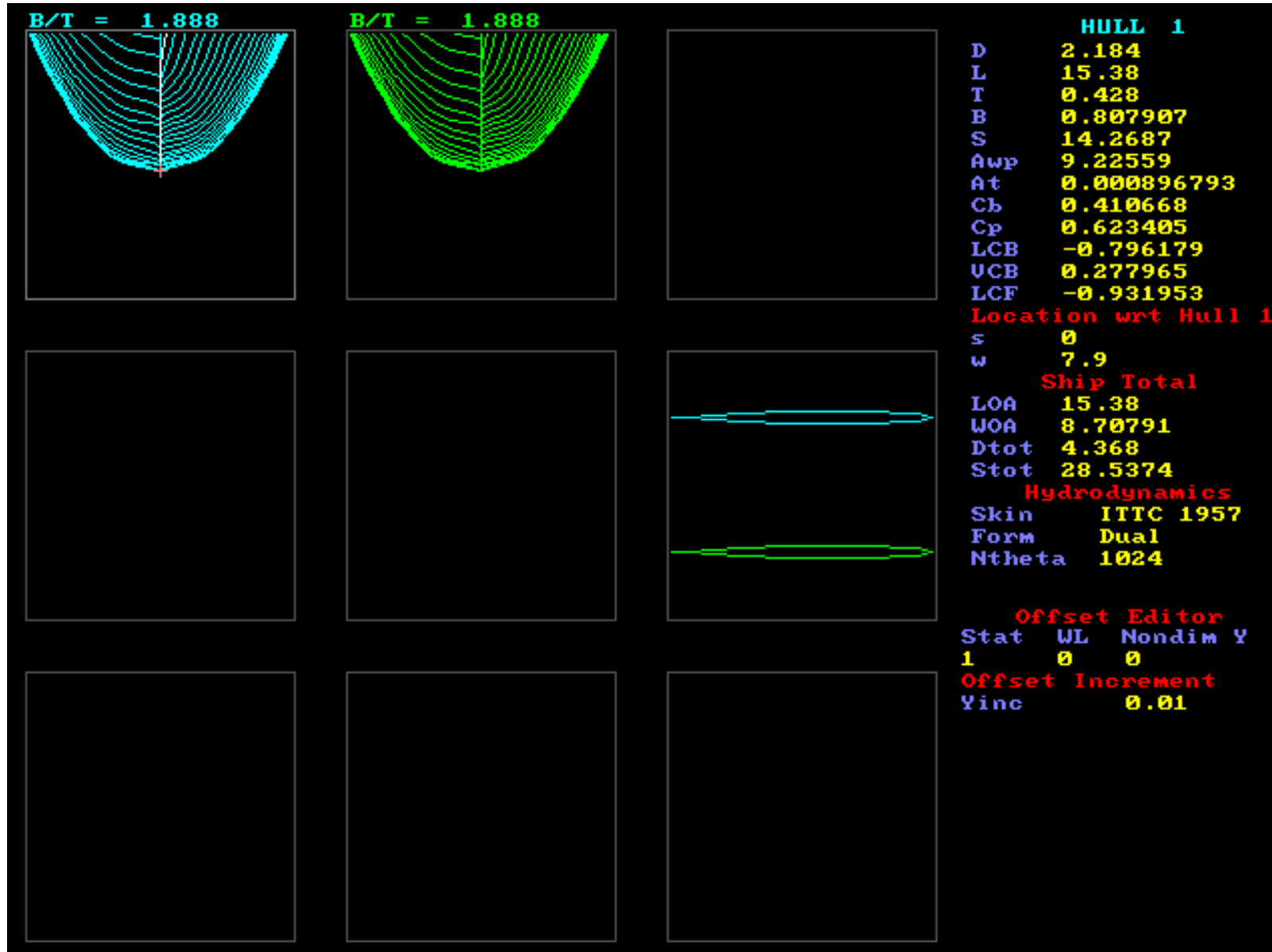


- Data and drawings for Blade Runner design from <http://tennantdesign.co.nz/>
- Fit model hull to data and fair hull.
- Stretch to 52' and do a little fairing.
- Sink hull until desired displacement is reached.
- Export as catamaran to Michlet file.

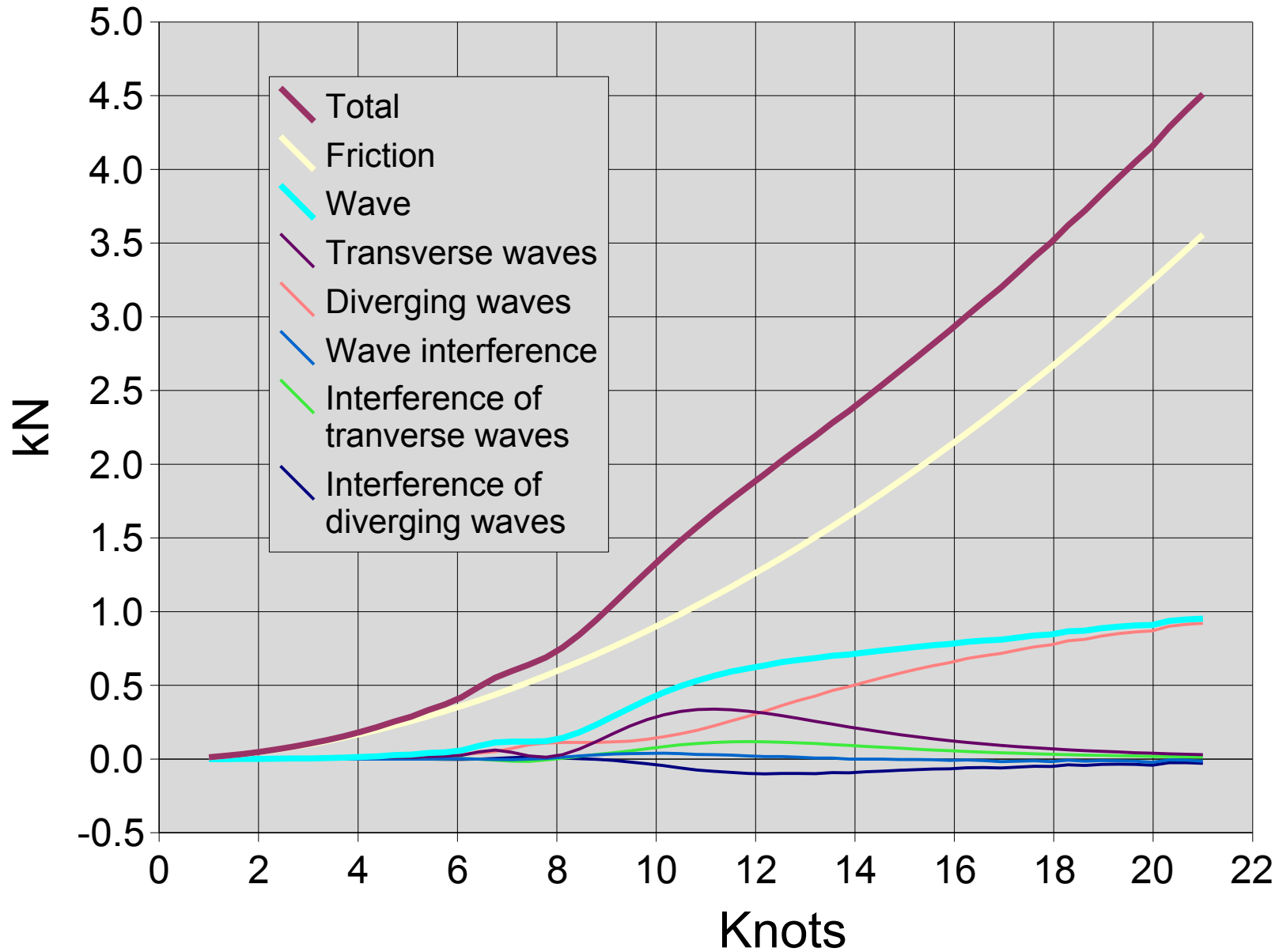
Afterburner model lines



Firing up Michlet



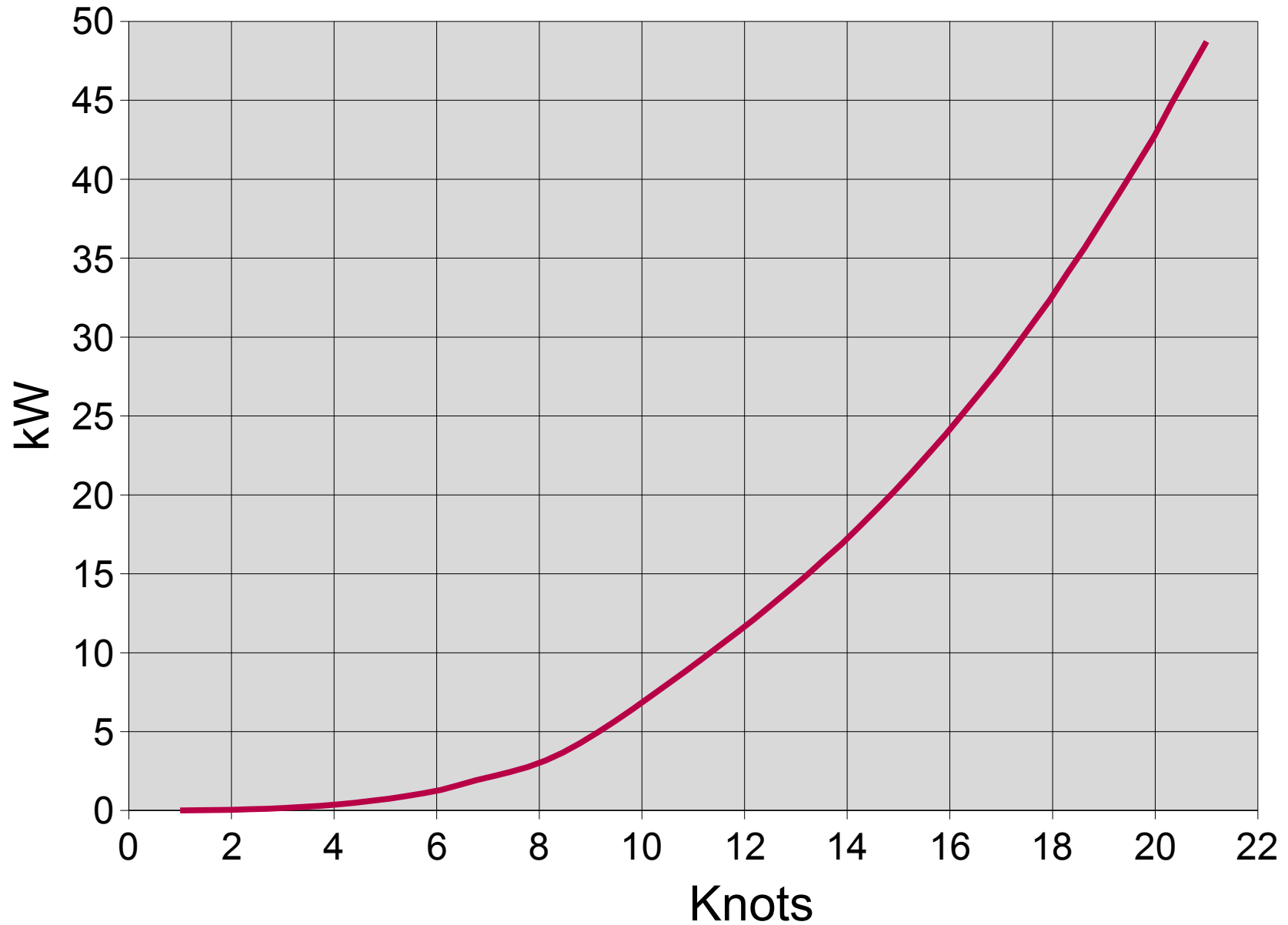
Afterburner drag



Comments on drag plot

- Total drag = Friction + Wave
- Wave drag = Transverse waves + Diverging waves + Wave interference
- Wave interference = Interference of transverse waves + Interference of diverging waves
- No rudders, no boards
- No windage, no waves
- No change in trim or attitude

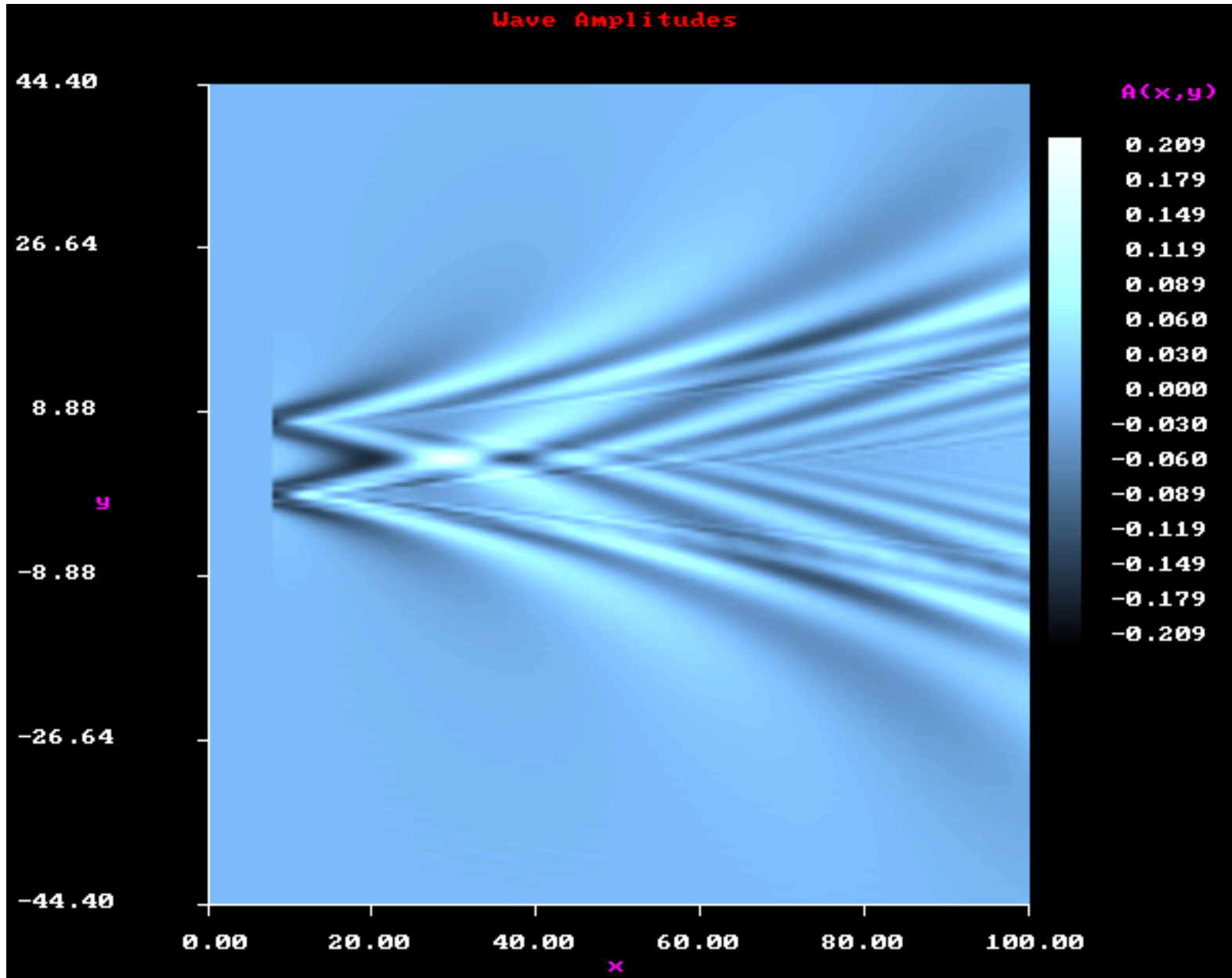
Afterburner power



Comments on power plot

- Power = Force x speed
- 1 kW = 1.36 hp
- This is not a plot of engine power since neither propeller nor transmission efficiency are accounted for.

Waves @ ca. 20 knots



Waves a interference peak

