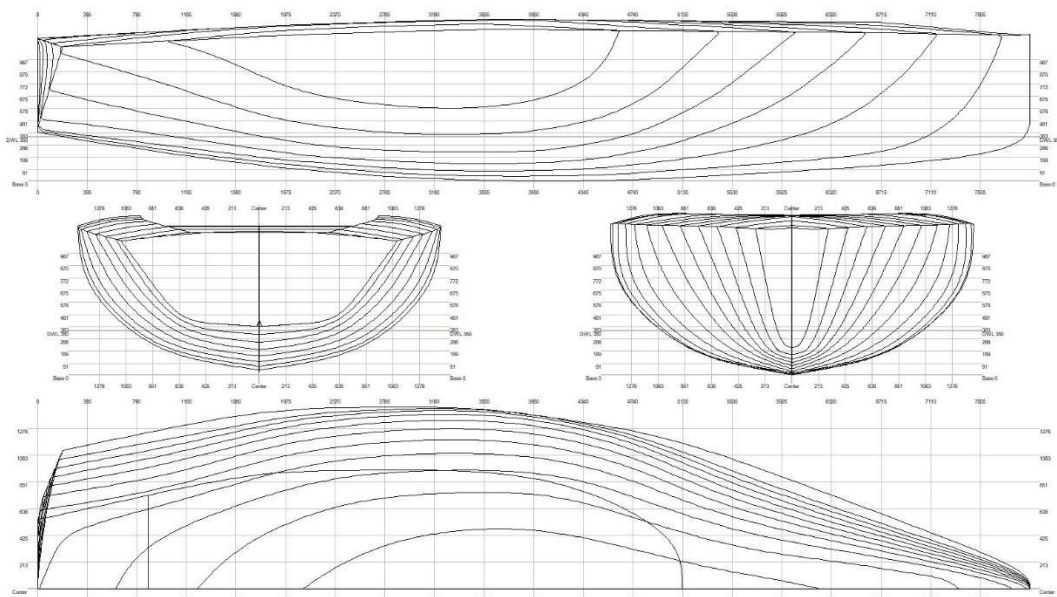


I.O.R. Quarter Tonner #05

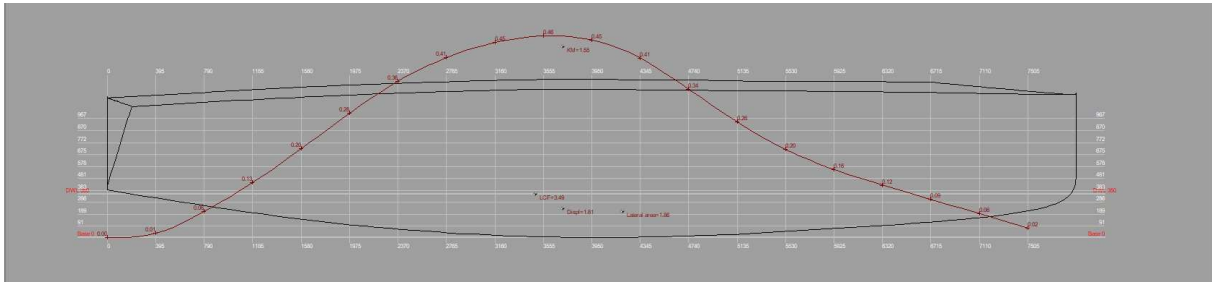
Project : Quartertonner #05
Designer : Delta Consultants/P.Visser
Length over all : 7.900 m
Beam over all : 2.890 m
Draft : 1.700 m
Midship location : 3.000 m
Water density : 1.025 t/m³
Appendage coefficient : 1.0000



Volume properties:

Displaced volume : 1.376 m³
Displacement : 1.410 ton
Total length of submerged body : 7.784 m
Total beam of submerged body : 1.932 m
Block coefficient : 0.0538
Prismatic coefficient : 0.5271
Vert. prismatic coefficient : 0.0901
Wetted surface area : 12.082 m²
Longitudinal center of buoyancy : 3.809 m
Longitudinal center of buoyancy : -1.060 %
Transverse center of buoyancy : 0.000 m
Vertical center of buoyancy : 1.587 m

I.O.R. Quarter Tonner #05

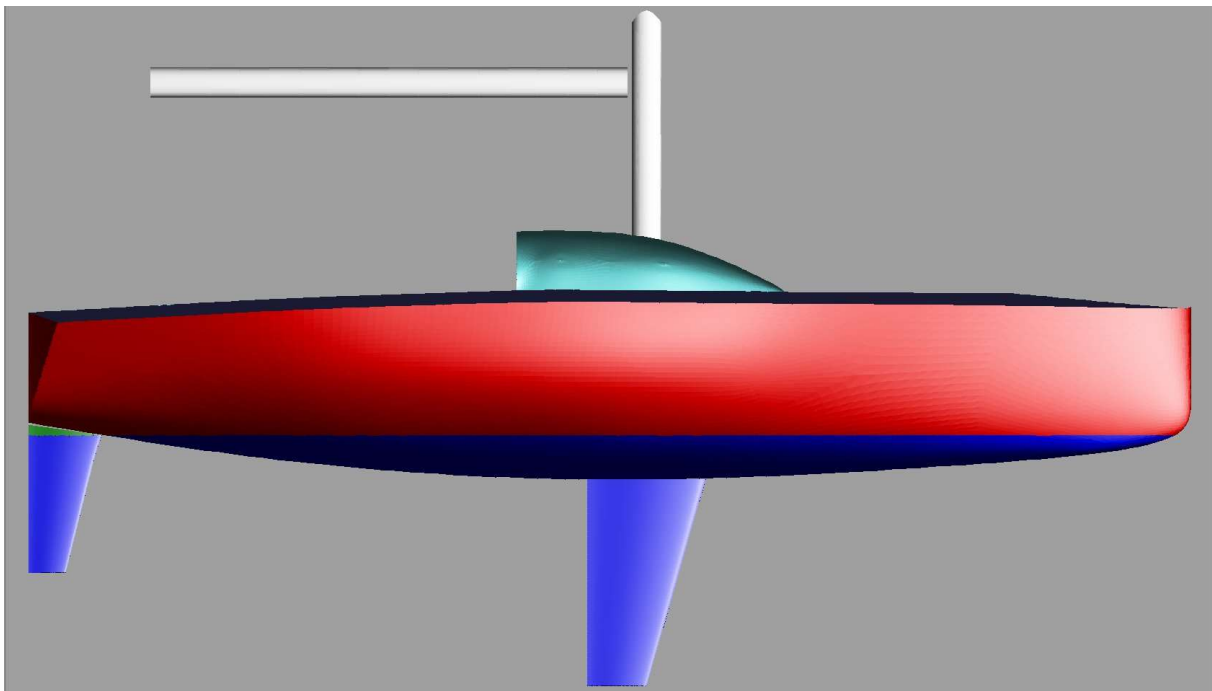


Midship properties:

Midship section area	:	0.335 m ²
Midship coefficient	:	0.1021

Waterplane properties:

Length on waterline	:	7.784 m
Beam on waterline	:	1.932 m
Waterplane area	:	8.981 m ²
Waterplane coefficient	:	0.5973
Waterplane center of floatation	:	3.659 m
Y coordinate of DWL area CoG	:	0.000 m
Half entrance angle of DWL	:	21.122 degr
Transverse moment of inertia	:	1.853 m ⁴
Longitudinal moment of inertia	:	23.866 m ⁴



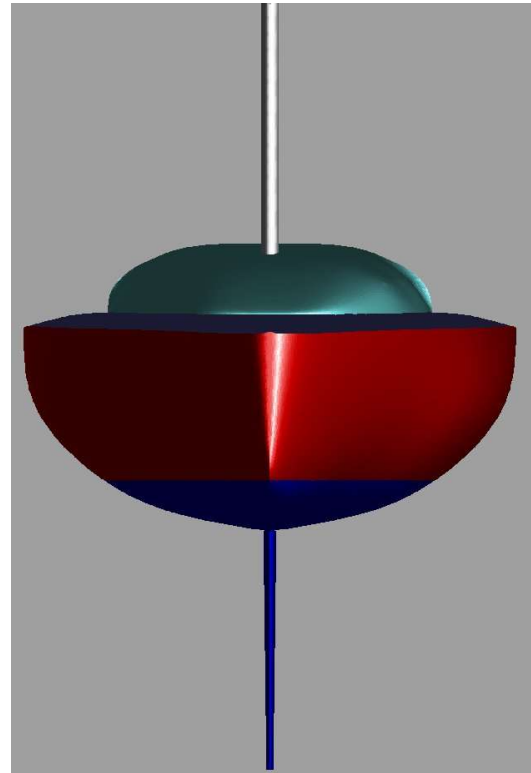
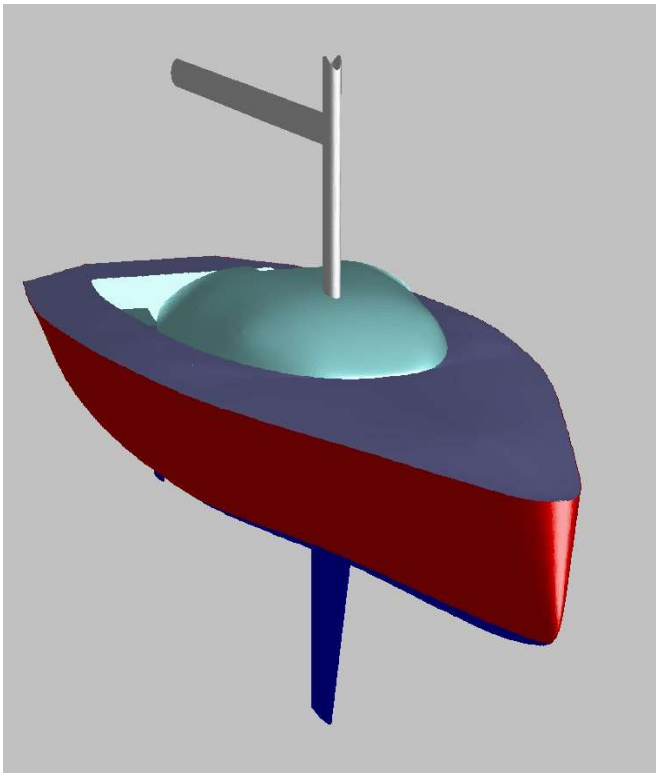
I.O.R. Quarter Tonner #05

Initial stability:

Vertical of transverse metacenter	:	2.933 m
Tranverse metacentric radius	:	1.346 m
Longitudinal transverse metacenter	:	18.931 m
Longitudinal metacentric radius	:	17.345 m

Lateral plane:

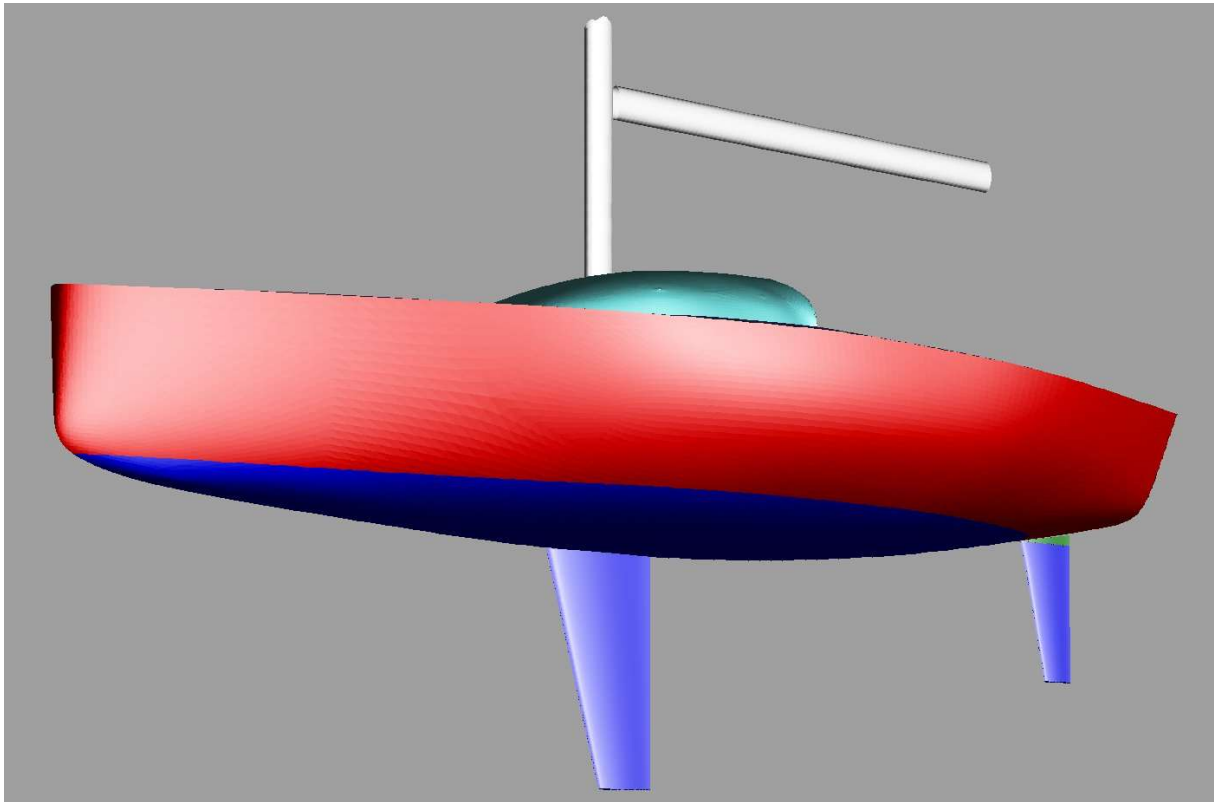
Lateral area	:	2.625 m ²
Longitudinal center of effort	:	3.703 m
Vertical center of effort	:	1.298 m



Hull characteristics above waterline:

Lateral wind area	:	9.203 m ²
Z coordinate of wind area CoG above DWL	:	1.918 m
Distance from bow to wind area CoG	:	3.942 m

I.O.R. Quarter Tonne #05



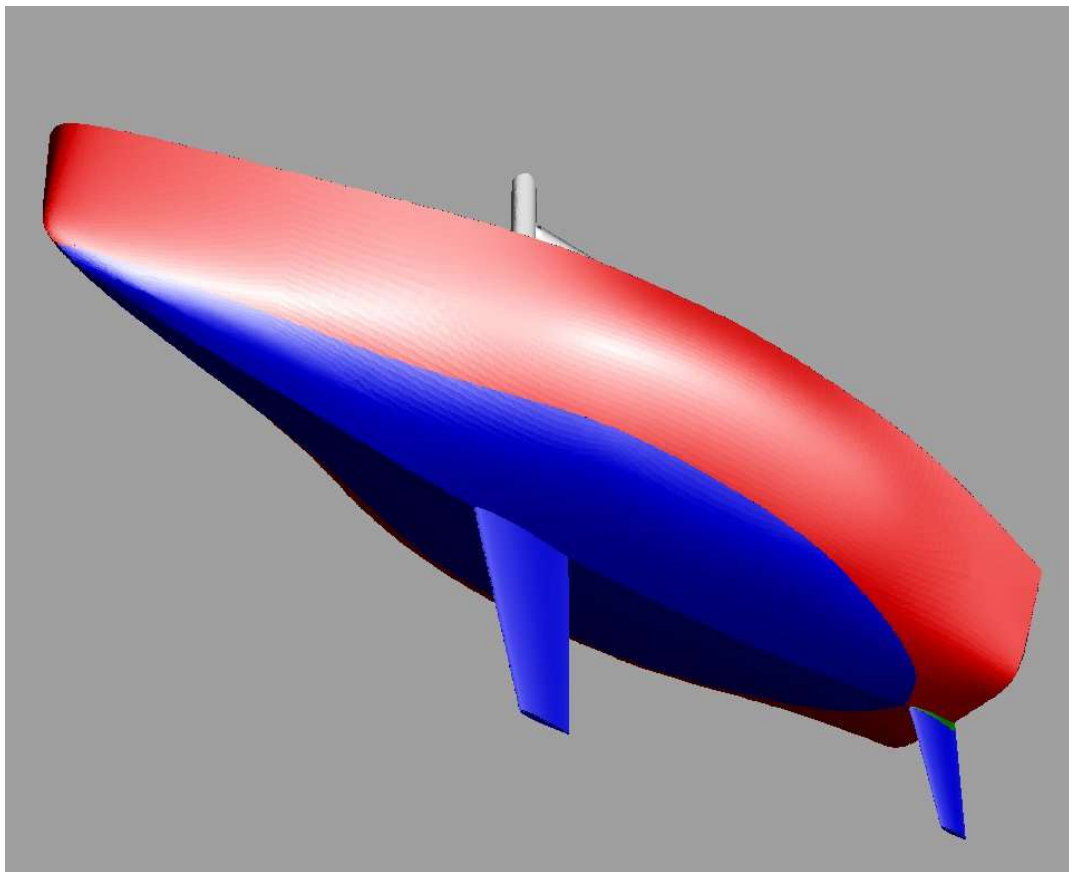
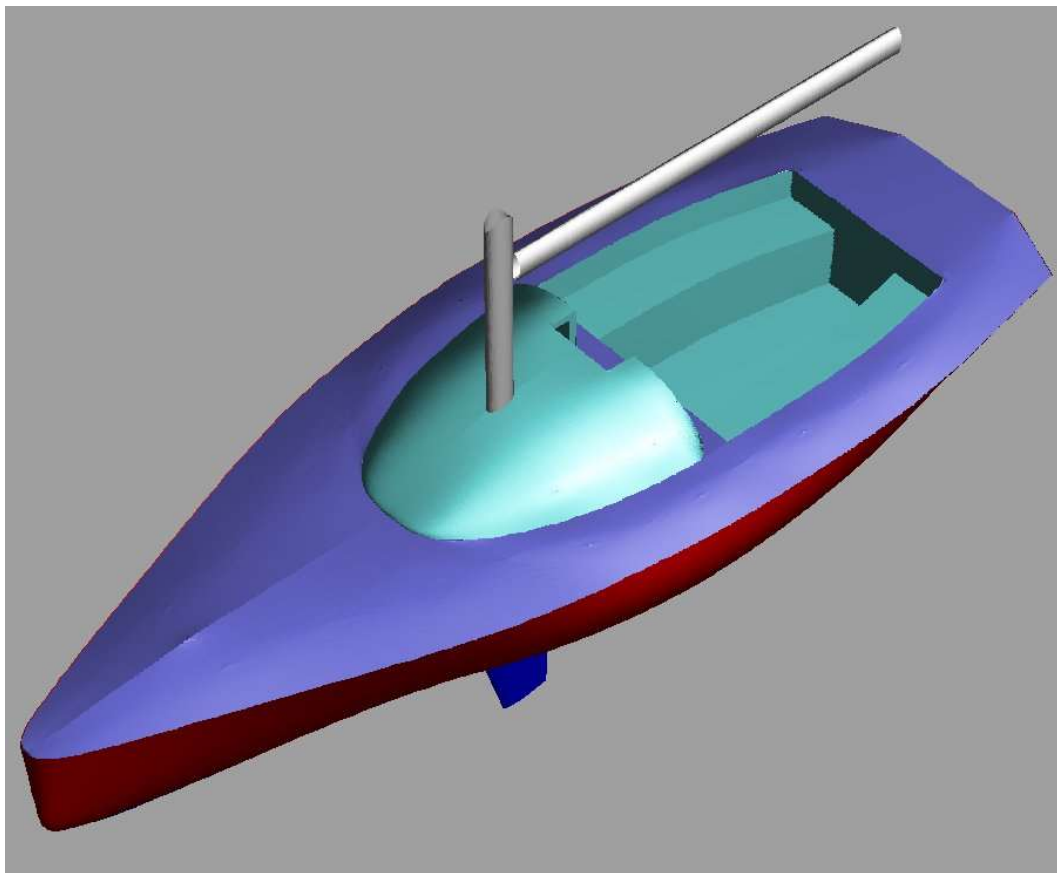
The following layer properties are calculated for both sides of the ship:

Layer	Area	Thickness	Weight	COG X	COG Y	COG Z
	m ²	mm	tonnes	m	m	m
hull	28.053	20.000	0.561	3.609	0.000	1.911
deck	10.672	0.000	0.000	3.697	0.000	2.616
cockpit	12.973	15.000	0.195	2.615	0.000	2.400
Trapezoidal keel NACA63	1.739	0.000	0.600	4.116	0.000	0.787
Trapezoidal rudder NACA	0.741	0.005	0.000	0.192	0.000	1.312
Total	58.766		1.361	0.000	2.037	

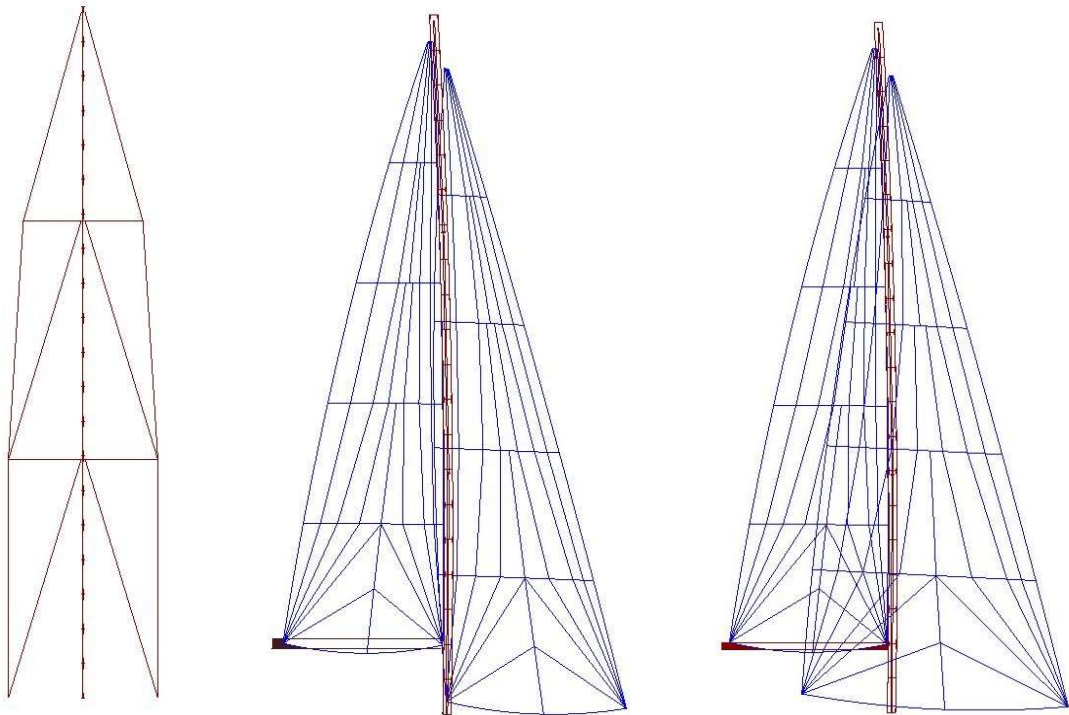
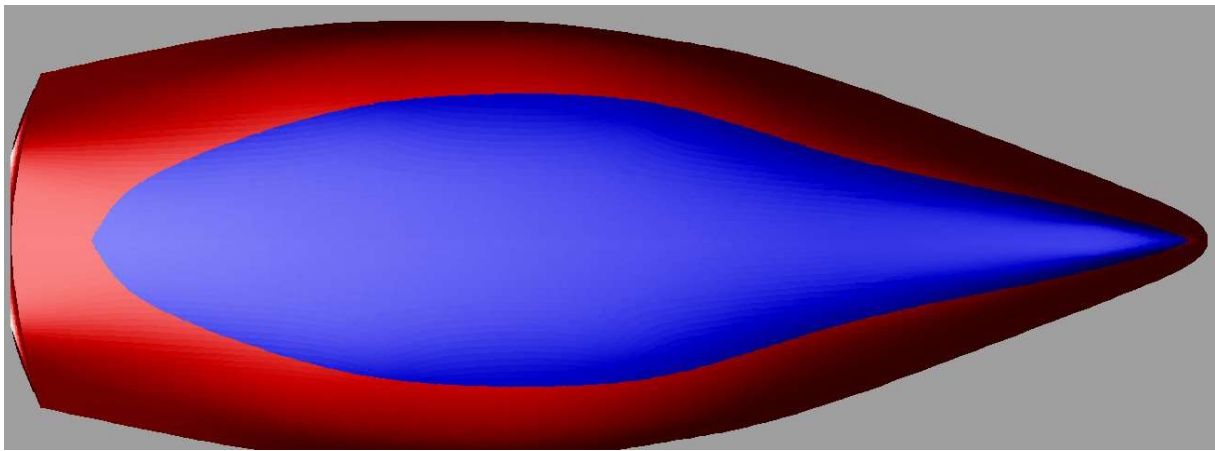
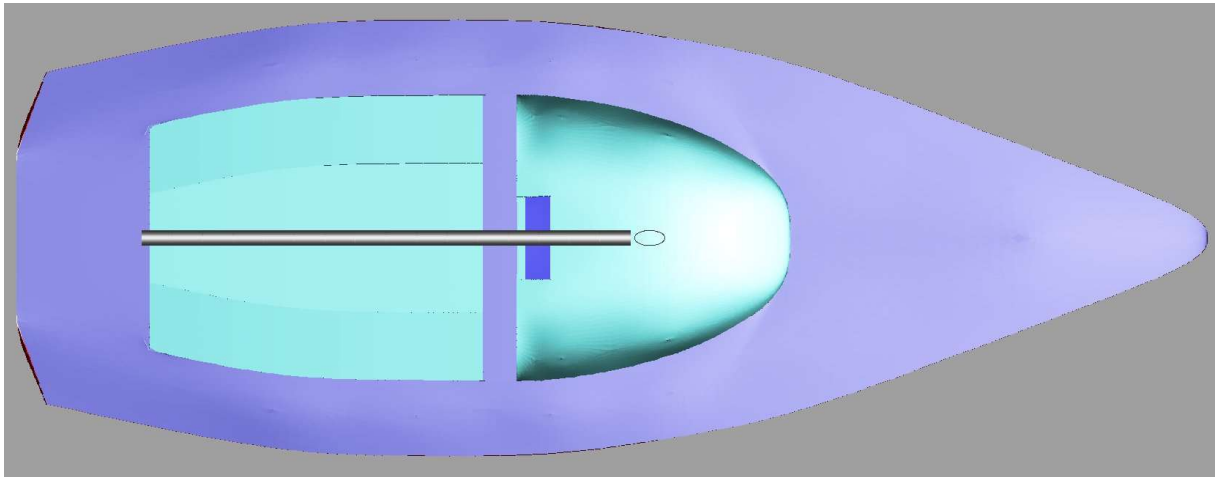
NOTE 1: Draft (and all other vertical heights) is measured above the lowest point of the hull! (Z= 0.000)

NOTE 2: All calculated coefficients based on actual dimensions of submerged body.

I.O.R. Quarter Tonner #05



I.O.R. Quarter Tonner #05



Main 16.4m² High Aspect 19m² Genua 27m²