Dedicated hydrostatic softwares
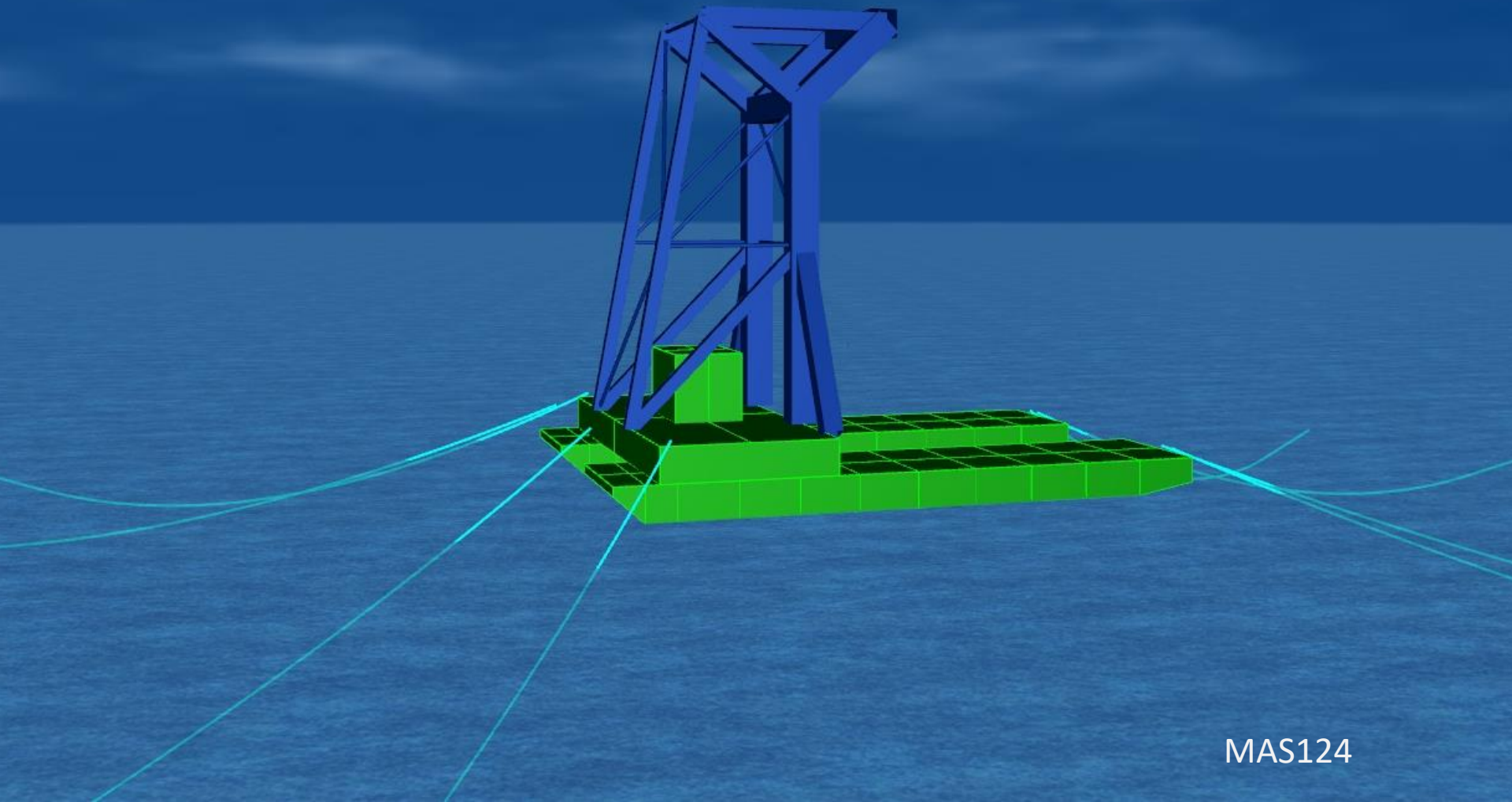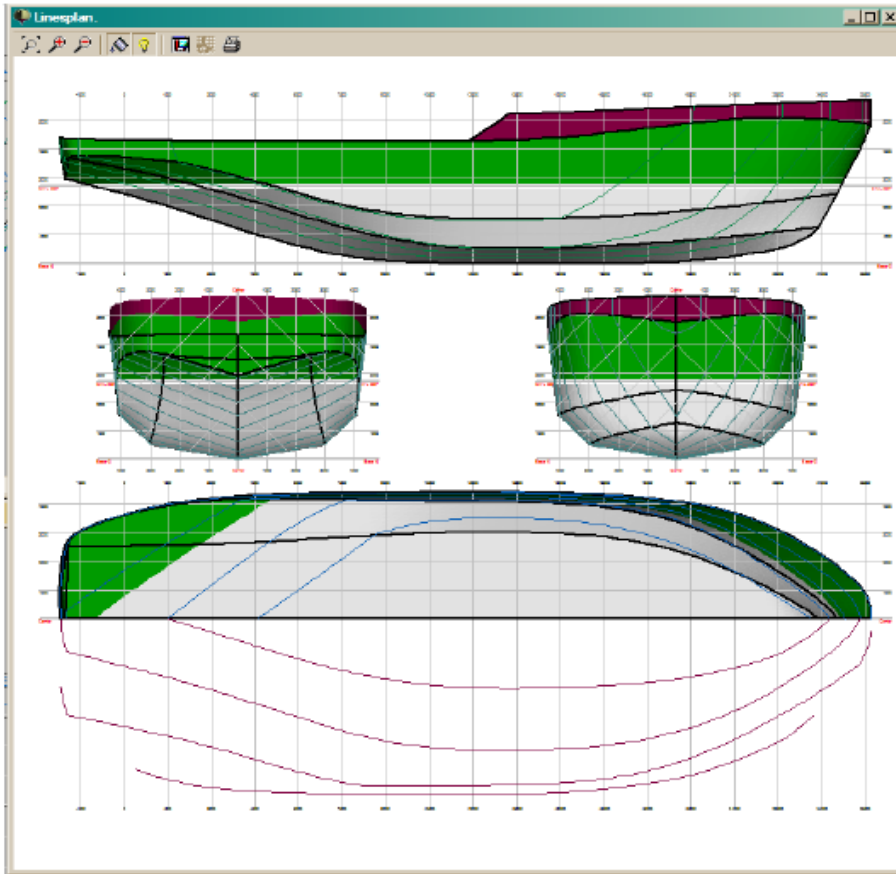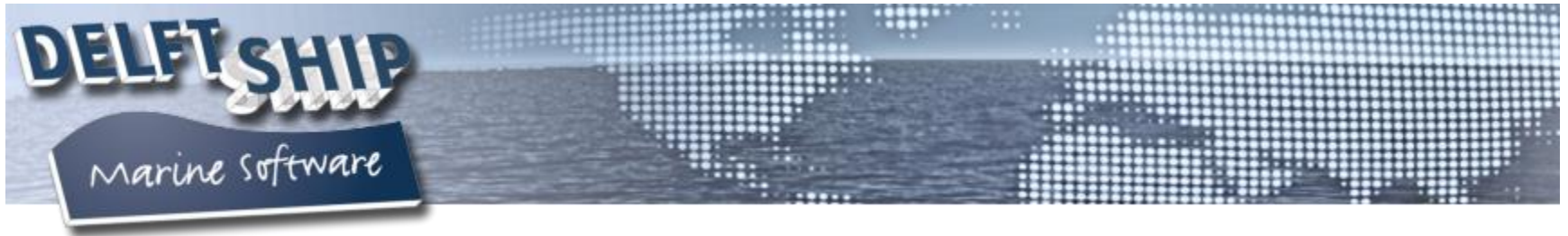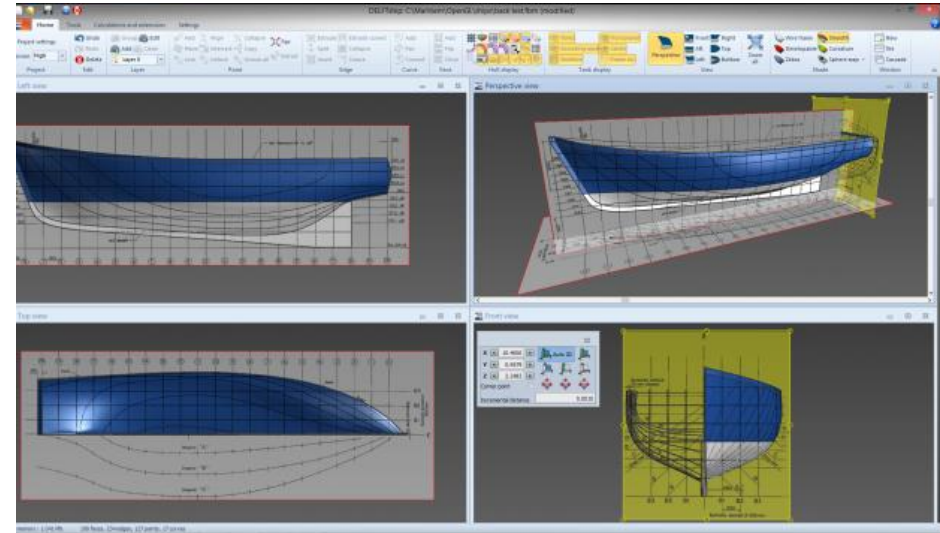
- For free
- Primarily a surface modeler and can export to several CAD file formats
- Center of boyancy
- Displacement
- Center of flotation
- Metacentre
- Section area curve
- Approximate flow line visualization by surface analysis (Not advanced CFD, no pressures, no velocity, no waves)

Link manual

DELFTship free

- **Free module with:**
- Basic hydrostatics
- Resistance calc.
- Lines plan printing
- Geometry export to different file formats
- Free download of test geoemtries

Module extensions not for free: Load calculations, damage stability etc.
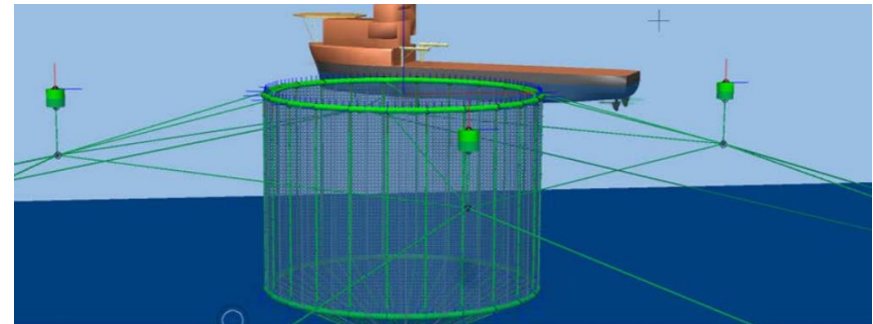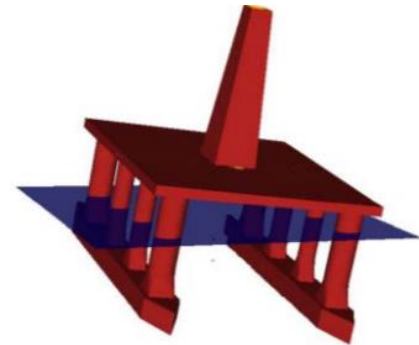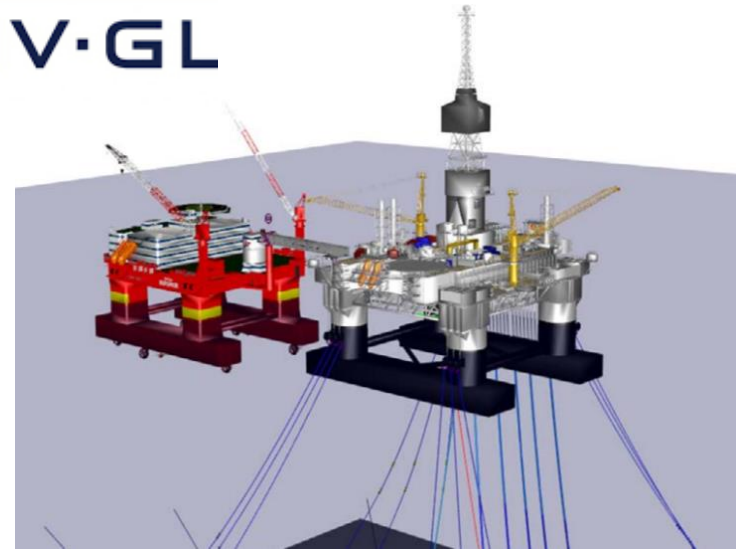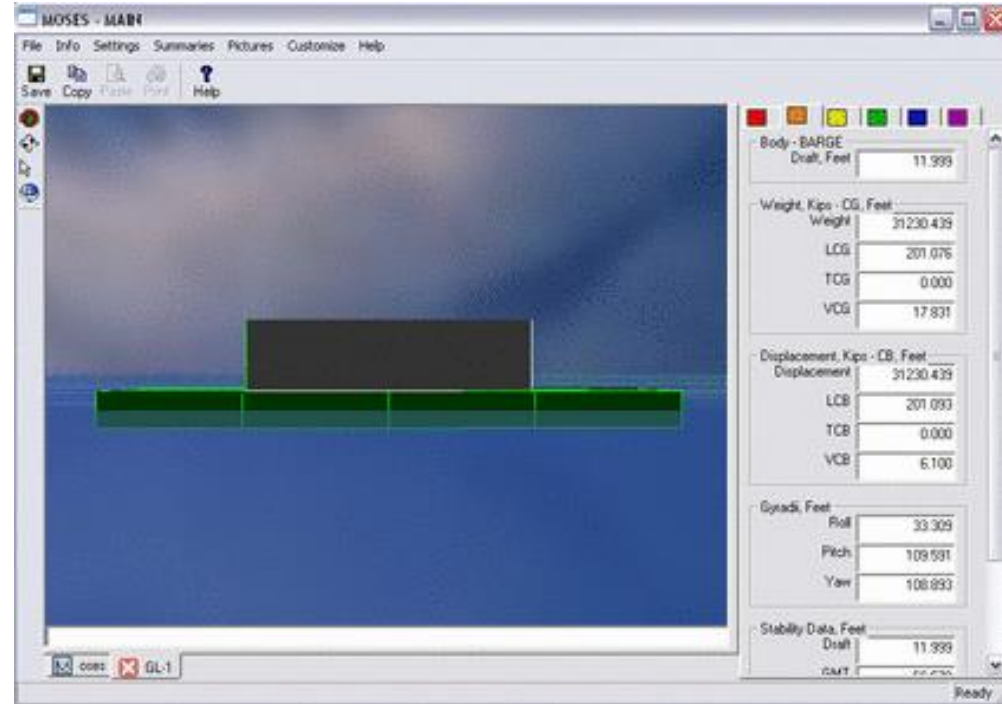
Link: https://www.delftship.net

SESAM by

- Multiphysics: Hydrostatics, loads, dynamics in one software
- Both graphical and coding environment
- Constraints, anchors, tension
- Damage stability
- Wave, wind, current
- Structural response to waves
- Pressure, forces and moment on hull

Used at HVL in 1st-3rd year education

MOSES by Ultramarine, inc.

- Some modules for free
- Difficult to learn coding environment, but can do almost everything
- Multiphysics: Hydrostatics, loads, dynamics in one software
- Constraints, anchors, tension
- Damage stability
- Wave, wind, current
- Structural response to waves
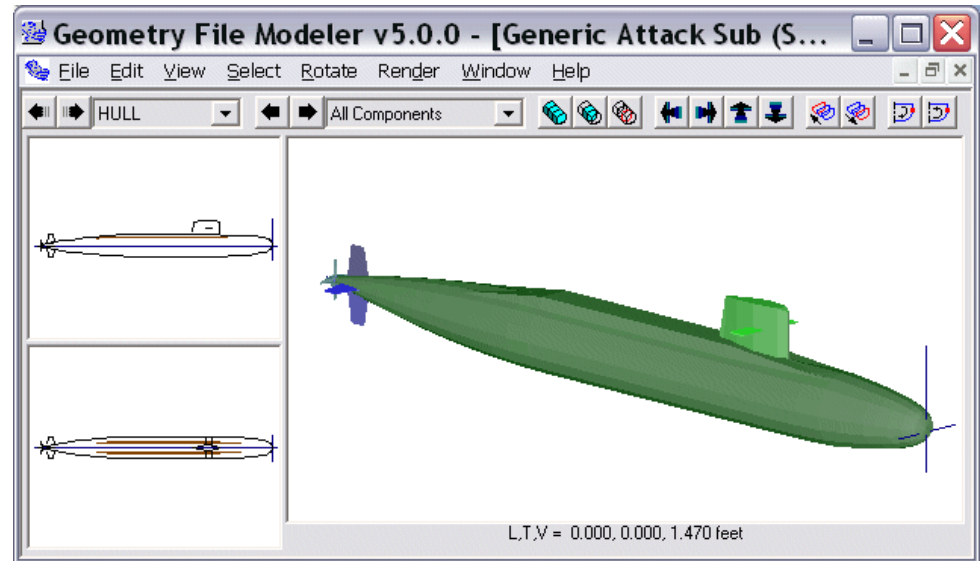- Pressure, forces and moment on hull

Used at HiB before class 16HMMT

Link: http://bentley.ultramarine.com/hdesk/document/ref_man.htm

- Not free
- World-wide use
- All type of stability calc.
- Variable density cargo,
- Compartment damage
- Longitudinal strength
- Floodable lengths
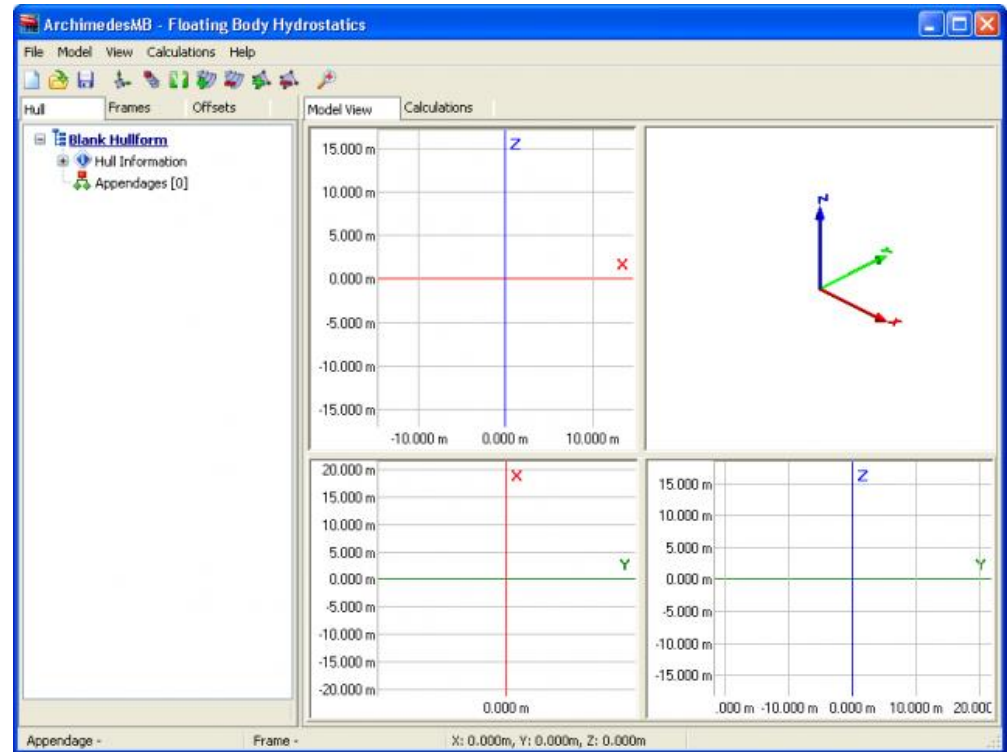- Output in many formats
- And much more

Link: http://www.ds-t.com/software-cd/softwares/csi/ghs/texte/ghs.html#GHS

Archimedes MB

Archimedes MultiBody

- Free for non-commercial use
- Geometry creation
- Hydrostatic stability curves

Link: http://www.naval-architecture.co.uk/?q=archimedesmb/about

And many more…

Google: Hydrostatic ship software.