



**COVID-19  
EDITION  
#19**

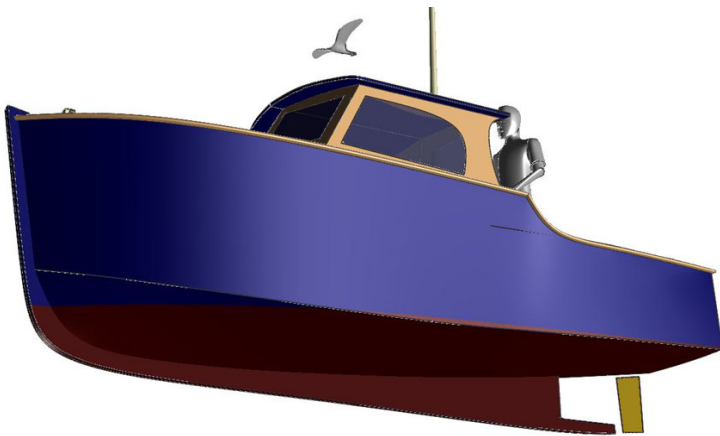
December 2020

## NEWSLETTER

<http://www.bmbg.org.au/>

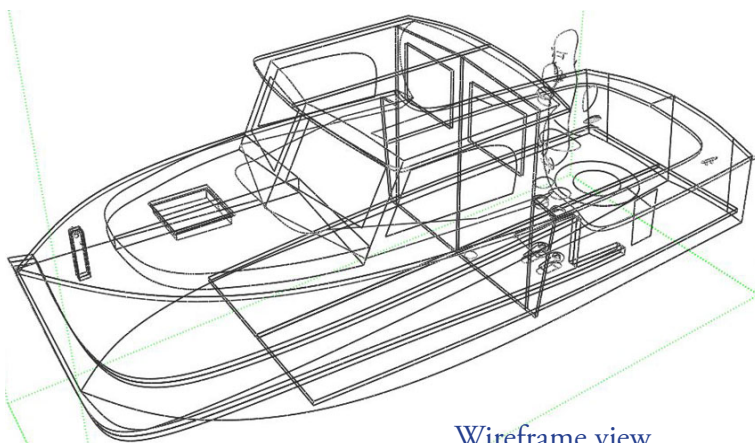
### Ensign's report - "Sprat" inshore fishing boat

*Alan F. helped ward off the corona blues by designing this charming little fishing boat using his favourite marine design software Delftship. What follows is a brief introduction to the software and design process.*



### Delftship

Delftship is a 3D visualisation and analysis software for hull design from Holland. It may be downloaded from <https://www.delftship.net/DELFTwp/> and is available in both free and professional versions. The functionality of the free version, used here, is quite sufficient for model boats whilst the professional version is generally only needed for plate development or more advanced analysis of the design.

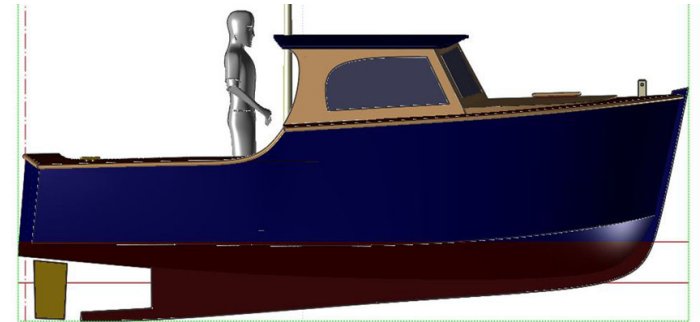
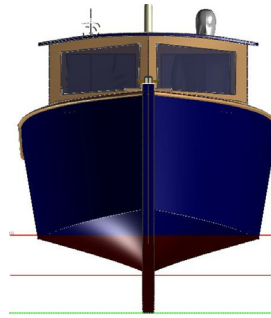


Wireframe view

### Designing with Delftship

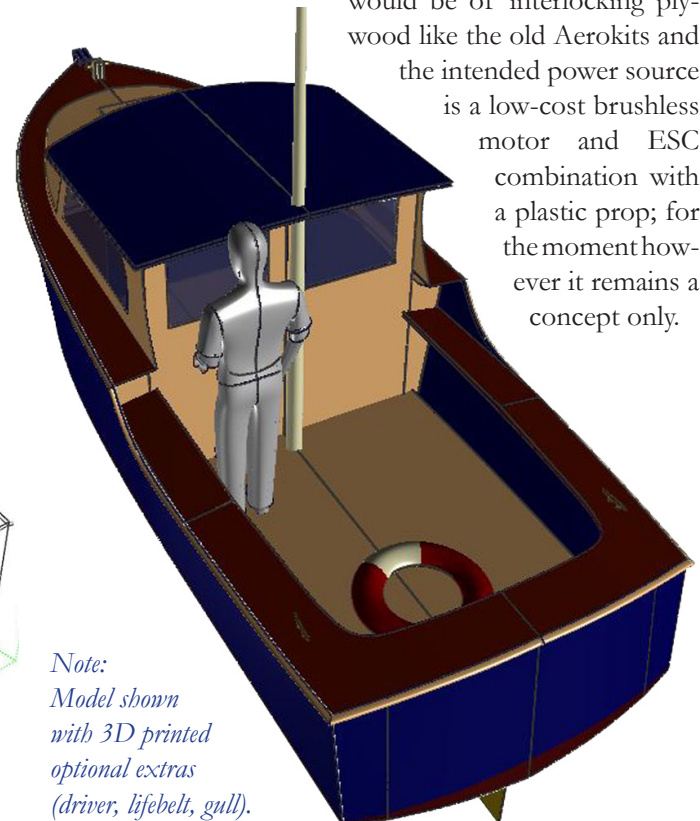
by Alan F.

As with any software, there is a learning curve to get through before you are able to use it. There is no space here to go into details, but there are tutorials to help you along the way, and it certainly looks a lot easier than learning a solid modelling program. Being a 3D model, your design can be viewed from any angle, in perspective if desired, or presented as a three-view drawing for the purposes of a plan.



Changes may be made quickly and easily in real time by tweaking the 'control points' of the hull. Boat too large or too small? It takes only a matter of seconds to change the scale and perform calculations to see the effect. For example, at a hull length of 520mm Sprat displaces (weighs) 1.1kg; the software shows that a modest increase to 650mm long will nearly double the displacement to 2.1kg.

Sprat is designed for the utmost simplicity whilst retaining sufficient curvature and detailing to be representative of a real fishing boat. Construction would be of interlocking plywood like the old Aerokits and the intended power source is a low-cost brushless motor and ESC combination with a plastic prop; for the moment however it remains a concept only.



*Note:  
Model shown  
with 3D printed  
optional extras  
(driver, lifebelt, gull).*