

Interesting modern ships

School of Engineering • Dr Paul Stott



Very Large....

24,000 TEU Container ship



Designed to carry 24,000 ISO Shipping Containers

If you unloaded it and laid all the boxes in a line without a gap between them, the line of boxes would stretch for **90 miles!**

If you piled them end on end, that is roughly 25 miles further into space than Blue Origin flew with Katy Perry and her friends aboard!

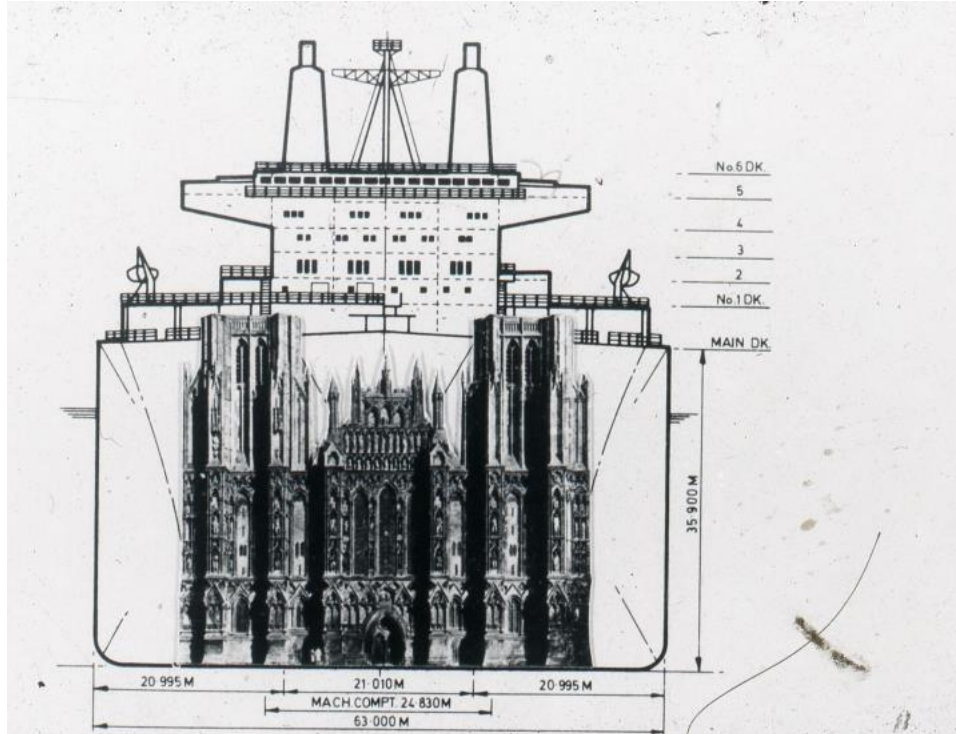
You could fit Titanic on the ship as a deck cargo.



Almost the largest ship ever built

Equivalent in size to 5½ Titanics

As big as 8¼ Albert Halls



The largest ship ever built – an Ultra-Large-Crude-Carrier built in France in 1975

When full of cargo weighed over 600,000 Tonnes – probably the heaviest object ever routinely moved by mankind

Here with Wells Cathedral superimposed in the tanks to try to show how large this ship was (about 10% larger than Icon of the Seas).

Very clever....



Carries 182,000 M³ of liquid methane at -163⁰C

At that temperature if the cargo touched the ship's structure, the steel would immediately crack

Clever design of the containment system for the cargo, to avoid the cargo ever touching the ship



Stands on the seabed to install wind turbines offshore

Mayflower autonomous vessel



Crossed the Atlantic all by itself!

Very fast and very deep....

HSC Francisco – High Speed Ferry



58 Knots – almost 70 mph

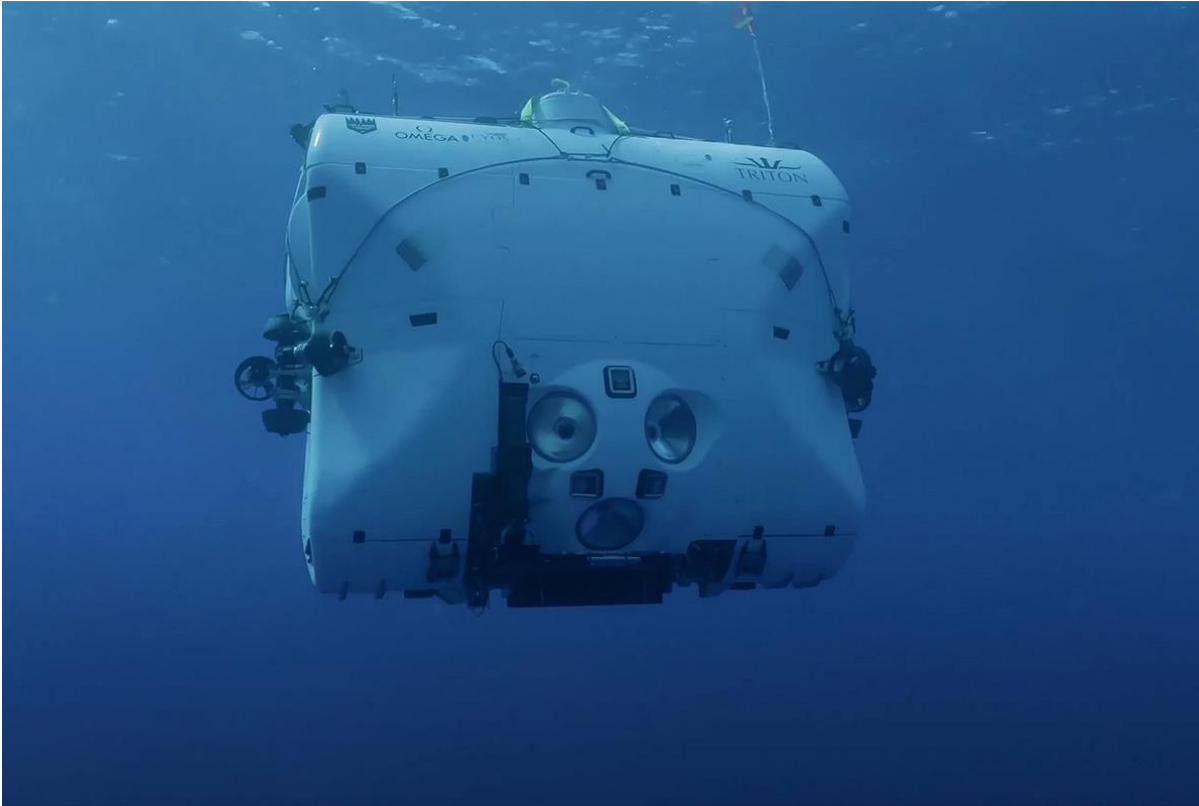


Hydrofoils fly more than sail

Typically achieve around 40 knots on wind alone (46mph)

Fastest have beaten 60 knots (70 mph)

Lethal to anyone that doesn't know what they are doing



Can visit the deepest part of the ocean, the Mariana Trench near Guam in the Pacific – 11km deep

Can do this **safely**

Unusual...



Sail-assisted rocket carrier Canopee



Dockwise Vanguard – semi-submersible heavy lift

