

- This cutaway painting of the French East Indiaman *Le Comte d'Artois* of 1200 tons shows the interior spaces of the ship as she prepared for a journey to the East in 1765.
- A typical voyage took six months to reach India hence the huge quantities of supplies and trade goods stored below deck. Ships would often remain in the Orient for up to two years trading from one place to another before they embarked for home.

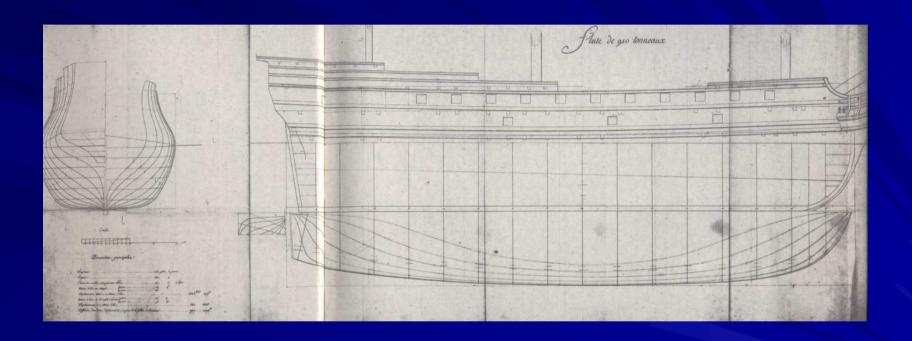


Photo 31: This chest of saucers in position since 21 January 1761 under four metres of sand

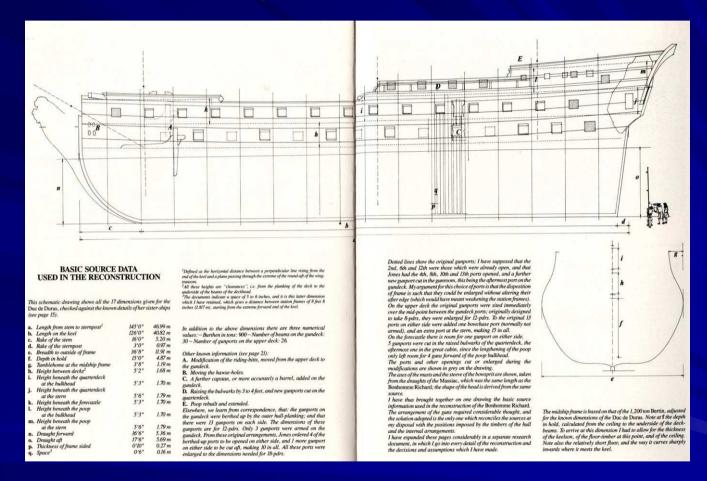
Chinese porcelain recovered from the wreck of the British East Indiaman *Griffin*, which sank with a cargo of silks, tea, and porcelain in the Sulu Sea (the Philippines) in 1761. Her valuable cargo was similar to that carried by the *Duc de Duras* on her four return trips from the East.



Antoine Groignard (1727-1798), builder of the *Duc de Duras*.

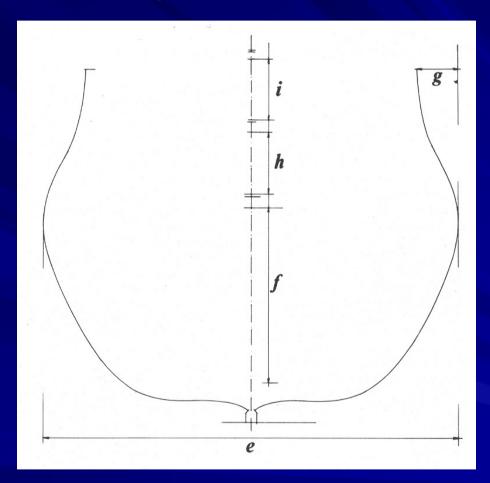


■ The building plan or draught of the 900-ton *Massiac* of 1758. Also designed by Groignard, she was very similar to the *Duc de Duras*.



Jean Boudriot's re-constructed plan of the Duc de Duras of 1765.

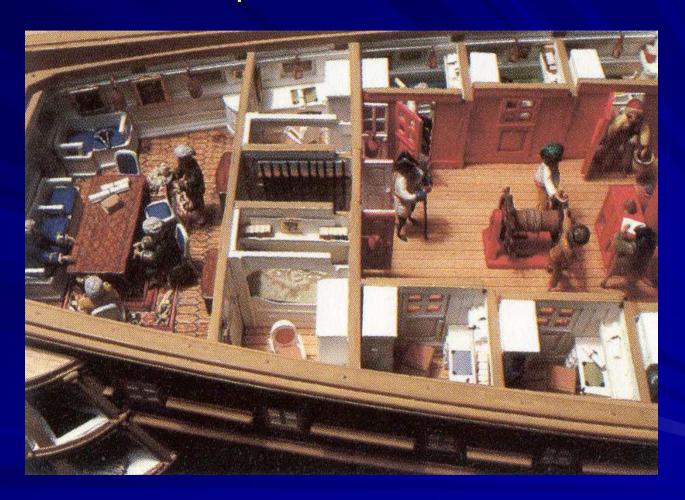
0	Longth from stem to stempost	145'0"	46.99 m
_	Length from stem to sternpost ¹	\$7 d \$50 d \$10 d	
b.	Length on the keel	126'0"	40.82 m
c.	Rake of the stem	16'0"	5.20 m
d.	Rake of the sternpost	3'0"	0.97 m
e.	Breadth to outside of frame	36'8"	11.91 m
f.	Depth in hold	15'0"	4.87 m
g.	Tumblehome at the midship frame	3'8"	1.19 m
h.	Height between decks ²	5'2"	1.68 m
i.	Height beneath the quarterdeck		
	at the bulkhead	5'3"	1.70 m
j.	Height beneath the quarterdeck		
	at the stern	5'6"	1.79 m
k.	Height beneath the forecastle	5'3"	1.70 m
l.	Height beneath the poop		
	at the bulkhead	5'3"	1.70 m
m.	Height beneath the poop		
	at the stern	5'6"	1.79 m
n.	Draught forward	16'6"	5.36 m
0.	Draught aft	17'6"	5.69 m
p.	Thickness of frame sided	0'10"	0.27 m
q.	Space ³	0'6"	0.16 m
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■ The midship bend showing the shape of the hull at its widest point. Groignard's ships had a relatively flat floor and a pronounced "tumblehome," with the top of the sides curving inward toward the centerline.



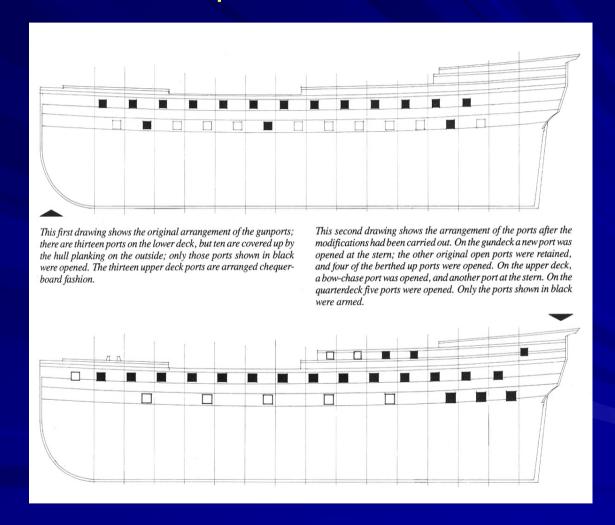
As with wooden men-of-war, the first steps in the construction of a French East Indiaman were to lay the keel and affix the stem- and stern-posts. The body of the hull was then formed by attaching a series of curved frame timbers to the keel at a 90-degree angle.



The Captain's Great Cabin at the aft end of the quarterdeck. At the stern was his meeting room; a pair of transverse bulkheads partitioned the living spaces of the Captain (to starboard) and the 1st Lieutenant (port) from the crewmen manning the ship's double wheel.



■ The Captain's table on East Indiamen – French, Dutch, and English – needed to be large enough to accommodate not only the Captain and his officers, but the highest paying civilian guests as well. Note the six cabins with canvas sides.



Here we have a very useful pair of diagrams drawn by the renowned French naval historian Jean Boudriot, showing the changes Jones made to the ship's gunport arrangement.



The Cook model showing the forecastle. The French habitually fitted a jeer capstan on the fo'c'sle, whereas the British preferred placing it further astern on the upper deck in the waist.



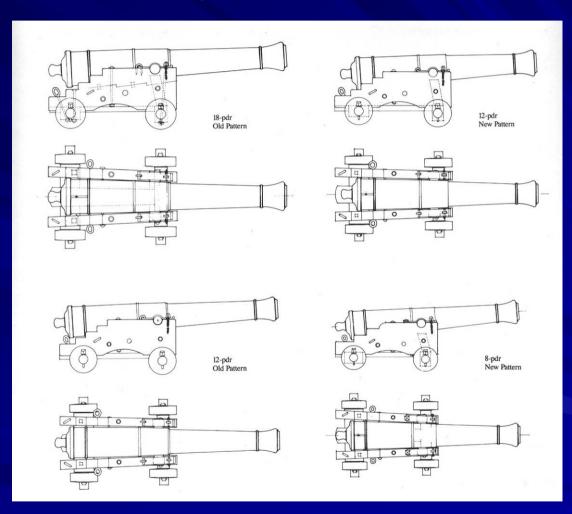
Here we see the three gunports on the lower deck containing 18-pounders, one or two of which blew up at the start of the engagement with HMS Serapis.



This view of the Cook model shows the ship as modified by Jones. Along with the new gun arrangement, he added chase ports to the bow and lowered the hawse holes (for the anchor cables) down a deck.



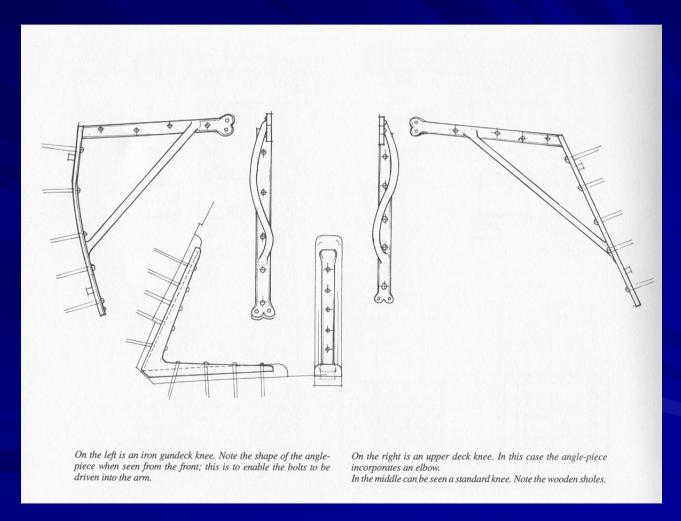
■ In this photo you can clearly see the projecting stern gallery for the Captain's pleasure.



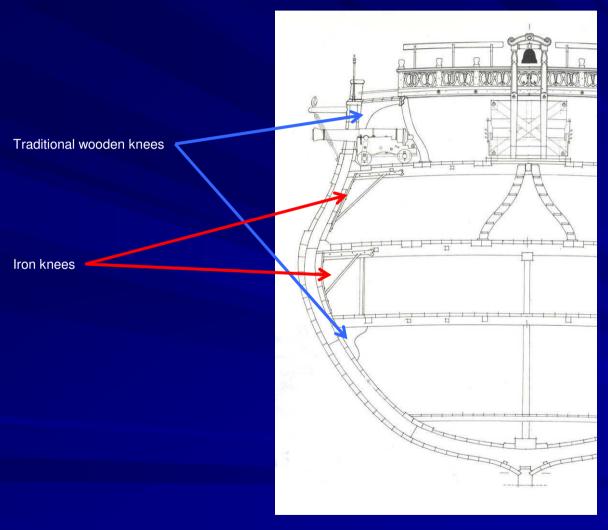
Guns carried aboard the Bonhomme Richard while under Jones' command.



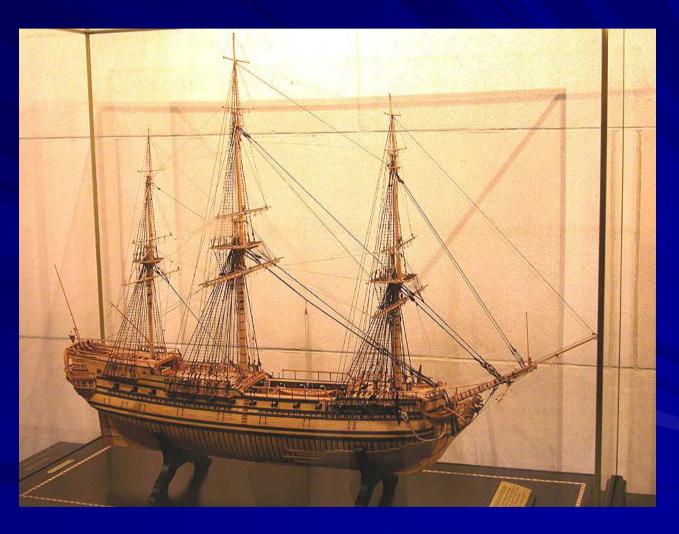
Cannon emblazoned with the Arms of the French East India Company and the date 1766.



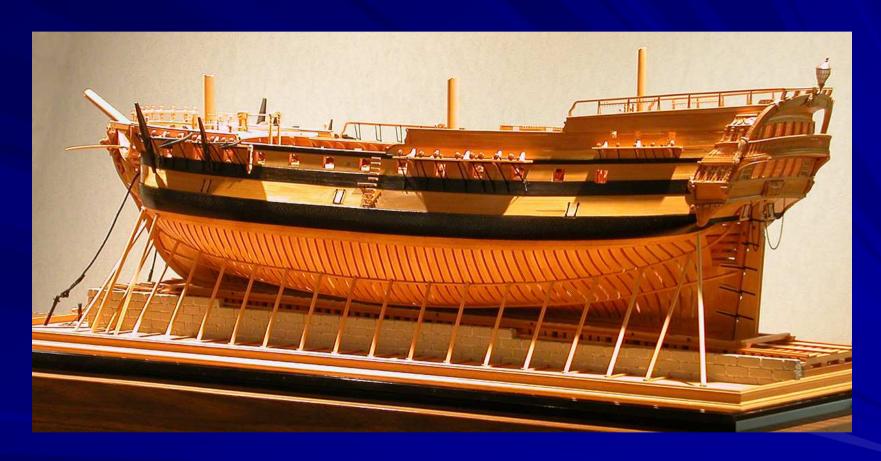
Some of the iron work thought to have been used in the construction of the *Duc de Duras*.



Section showing both wood and iron knees used to support the ends of the transverse deck beams.



Alain Benoit's model of the Bonhomme Richard.



■ The Cook-Roddis model. The port side depicts the *Duc de Duras* as she appeared when handed to Jones by the French.



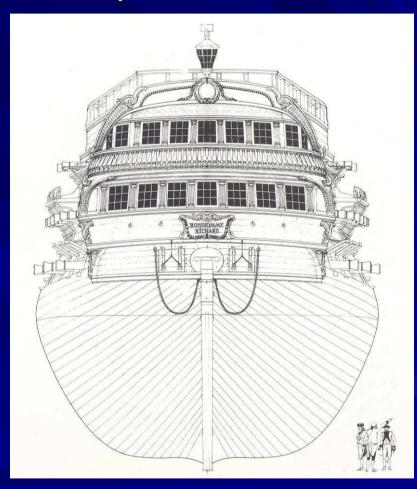
■ The model's starboard side shows the *Bonhomme Richard*, incorporating all of Jones' modifications.



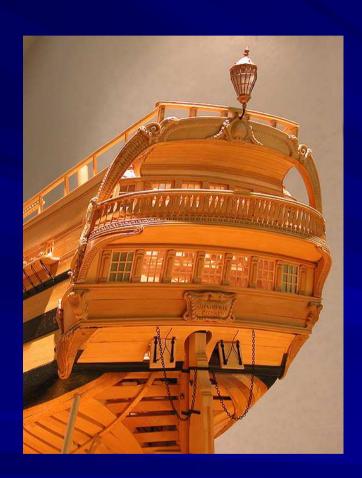
■ The ship's vertical hull frames were composed of several smaller timbers joined ("scarphed") together. These were then covered or sheathed both inside and out with strakes of horizontal planking.



■ The same is true at the ship's bow. Like Benoit, Bob Cook chose to leave off the lower hull planking of his model to expose the vertical frame timbers beneath.



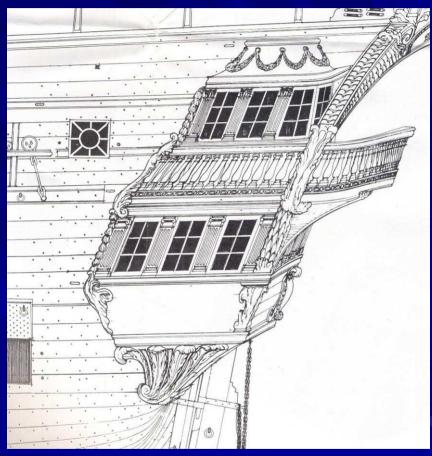
■ The ship's noticeable "tumblehome" in effect brought the guns on the upper and quarter decks closer to the centerline, theoretically improving stability. This was later proven to be a false premise, and after the 1790s most Indiamen were built with slab, boxy sides to expand their carrying capacity.





Both the Cook model (left) and the Benoit model (right) show the Captain's open stern gallery at the quarterdeck level and the closed tier of windows ("lights") for the other officers and passengers at the upper deck level.





The quarter galleries with their walkways, windows, and ornate decoration were really little more than elaborate privies for the Captain and his officers and guests.