



Les Deux Frères Castagnola Le Leudo 1913

Monograph at 1/24th

*The document includes all the plans
of the timber structure*

Franco Fissore

Translated by Gilles Korent

The leudo represents an evolution of the «liuto», or «lembo», two-masted vessels from the middle-ages, rigged with forward-raked masts topped with Mediterranean mast-caps. The development of the jib brought about the disappearance of the trinquet (foremast) and a increased rake of the mainmast. The geographical origin of the leudo is Catalonia and it was even for a time called a “catalano” by sailors from Liguria. The leudo was a ship-of-all-trades, used as a commercial trading vessel for the transportation of various products. As a fishing boat, often alternating according to the season or to the local economy.

It had however, three main areas of activity that resulted in a

particular Italian designation for each form of leudo whose shape varied depending upon its use.

The Two Castagnola brothers' leudo built at Lavagna in 1913 was a wine-carrier. It carried wine in barrels and other containers that were stowed either in the hold or on deck. It was a “barancelle de transport” drawing 14.14 tons, 15 m long and with a maximum breadth of 4.68 m outside planking at deck level, and 1.55 m of depth-in-hold. Iconographic records consist among other things, of documents and manuscripts. Historical and graphical documentation has been used to draw every detail of the timber structure.

A hard-board box with flaps contains a 100-page booklet with more than 250 photographs and drawings, in color when available.

A 20-page chapter explaining in detail, the construction of the rigging. The monograph includes the 11 plates necessary for the construction of the timber structure.

COMPOSITION OF THE MONOGRAPH

A cardboard folder with flaps including a 100-page brochure with more than 250 color photos or drawings when available. A 20-page chapter explains in detail the construction of the mast. The monograph contains the 11 boards necessary for the construction of the frame.

LIST OF CHAPTERS

- I The story of the Castagnola family, 1913
- II History of the leudo
- III Leudo plans by Sergio Spina
- IV Salvaging the Leudo “Due Fratelli Castagnola”

- V The leudo and its origins
- VI Construction of the last leudo, the Leonidas, 2004
- VII Construction details of the Ligurian leudo
- VIII Monograph. Description of the plates
- IX Masting

LIST OF PLATES

- 1 Lateral schematic view, as well as plan view and elevation of the bow and stern including the waterlines.
- 2 Plan and lateral view on the longitudinal and transversal framing.

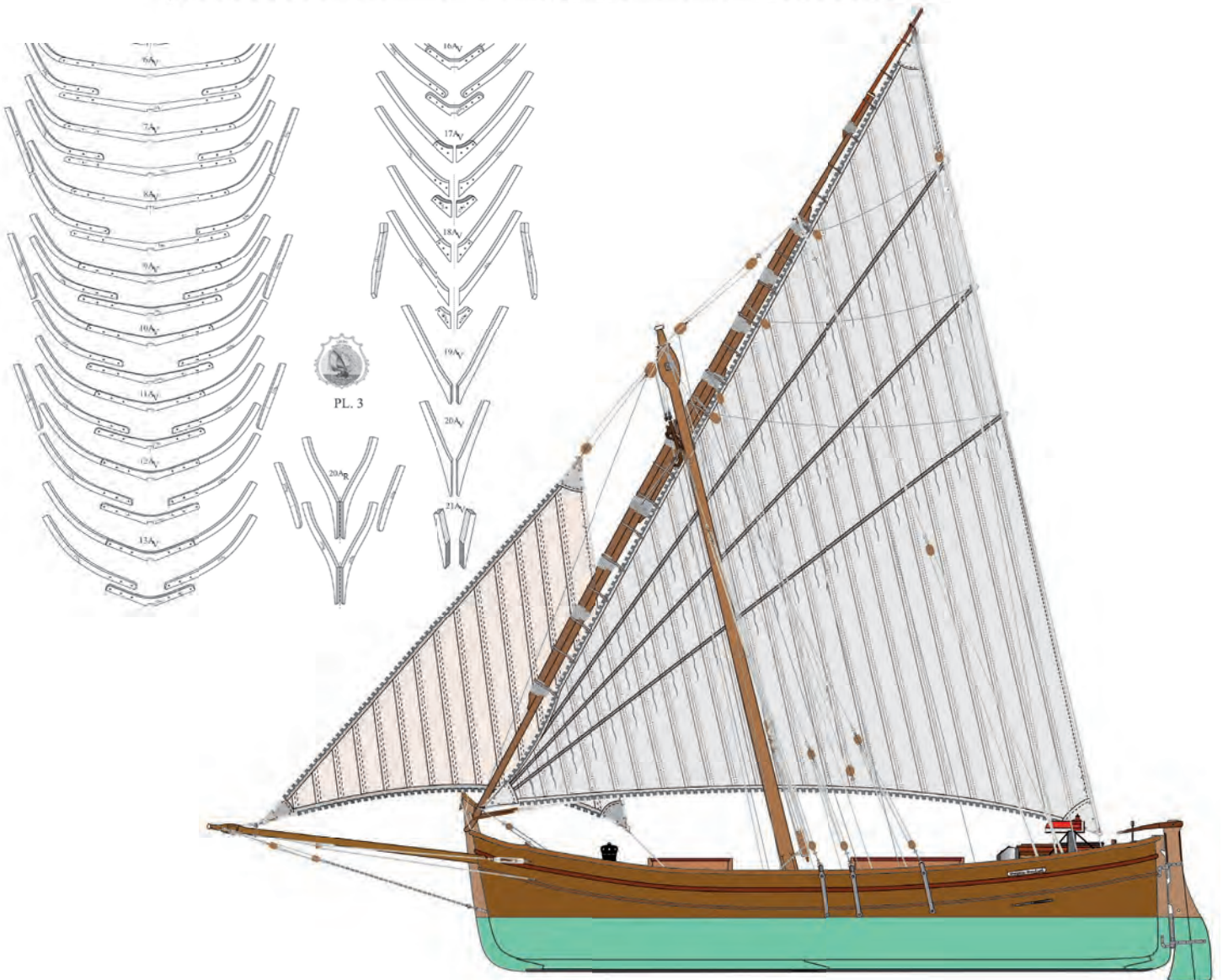
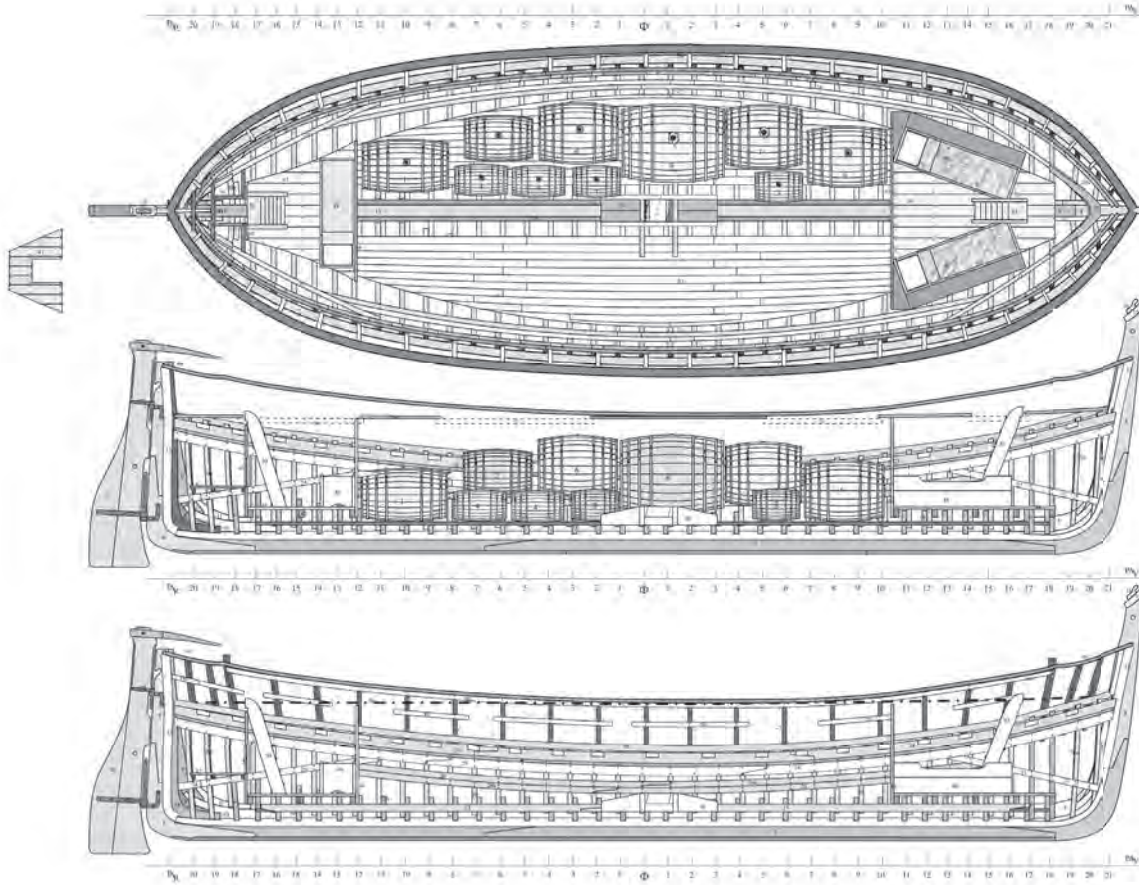
- 3 Full pattern of the frames once assembled.
- 4 View of the completed framing
- 5 View of the completed framing from the side and in plan view.
- 6 Cut views.
- 7 Complete view of the framing: profile and plan view.
- 7 Fitting-out the deck.
- 8 Detailed view of all the fittings.
- 9 Sails.
- 10 Mast, Yard and blocks, completed hull.
- 11 Lateral view of the vessel under sail, belaying points.

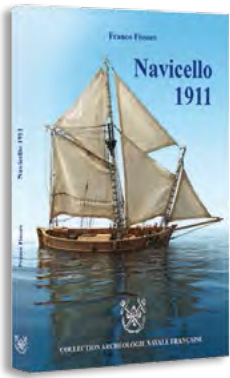
Image excerpts



GREE MODEL			HULL ONLY		
Length	Width	Height	Length	Width	Height
90	22	87	60	22	16

Excerpts from the boards





The Navicello Le Coursier 1911

Monograph
Scale 1/36

Franco FISSORE

The navicello was a typical boat of the Tyrrhenian Sea, and of Tuscany in particular, since the 16th century. It was used for the transport of a variety of merchandise on the river Arno and the sea. It was a small boat with a nearly flat bottom, 16-20 metres long, with less than 50 tons capacity. It had one or two masts as well as a mast that was unique to the type, adding to the interest of this model. The Coursier, the subject of this monograph and true to type, benefited from technical advances such as its loading winch, or resulting from regulations which included the use of navigation lights (international regulations of 1862).

The navicello was adapted as much for river use as for the sea. This latter characteristic and its load capacity made the boat ideal for the transport of blocks of marble from Carrare. The present monograph is dedicated to the navicello Le Coursier, built in the naval dockyards of Terrizzano as well as to those elegant sailing ships launched from the shipyards of Oneglia and Porto Maurizio from 1884 for forty years. Sailing the Mediterranean and the oceans, they will be admired everywhere for the quality of their construction, their strength, their speed and the harmony of their lines.

COMPOSITION OF THE MONOGRAPH

A monograph of 16 plans necessary for the construction of a model.

A boxed cover with side flaps comprising a 100 page brochure with more than 80 photos and 250 drawings.

A 40 page chapter explains in detail the construction of the masts. The monograph contains the 16 plans necessary to build a model

CHAPTERS IN THE MONOGRAPH

1. Ancient boats made of oak. The navicelli. The merchant marine of Carrare.
2. Life and splendour of the naval dockyards of Terrizzano.
3. History of the navicello.
4. Monograph and commentary on the plans.
5. Construction of the hull.
6. Making the deck fittings.
7. Making and finishing the sails.
8. Construction of the masts.

LIST OF PLANS

1. Schematic sheer plan, plan view and body plan including waterlines.
2. Sheer plan and plan view of the basic structure.
3. Sheer and plan views of the structure, with a part of the inner hull structure.
4. Sheer and plan views of the longitudinal and transverse structural elements. Exploded view of the axial components.
- 5-7 Frames.
8. Sheer and plan views of the construction with internal fittings.
9. Plan view with transverse sections showing the internal layout.
10. Sheer and plan views of the complete assembly. The sheer view is fully equipped.
11. The finished deck showing the fittings.
12. Details of all the equipment and fittings.
13. Mastings and table of block sizes.
14. Sails.
15. Fully planked hull with bowsprit. Belaying plan and illustration of details in plan view.
16. Side view of the boat under full sail.

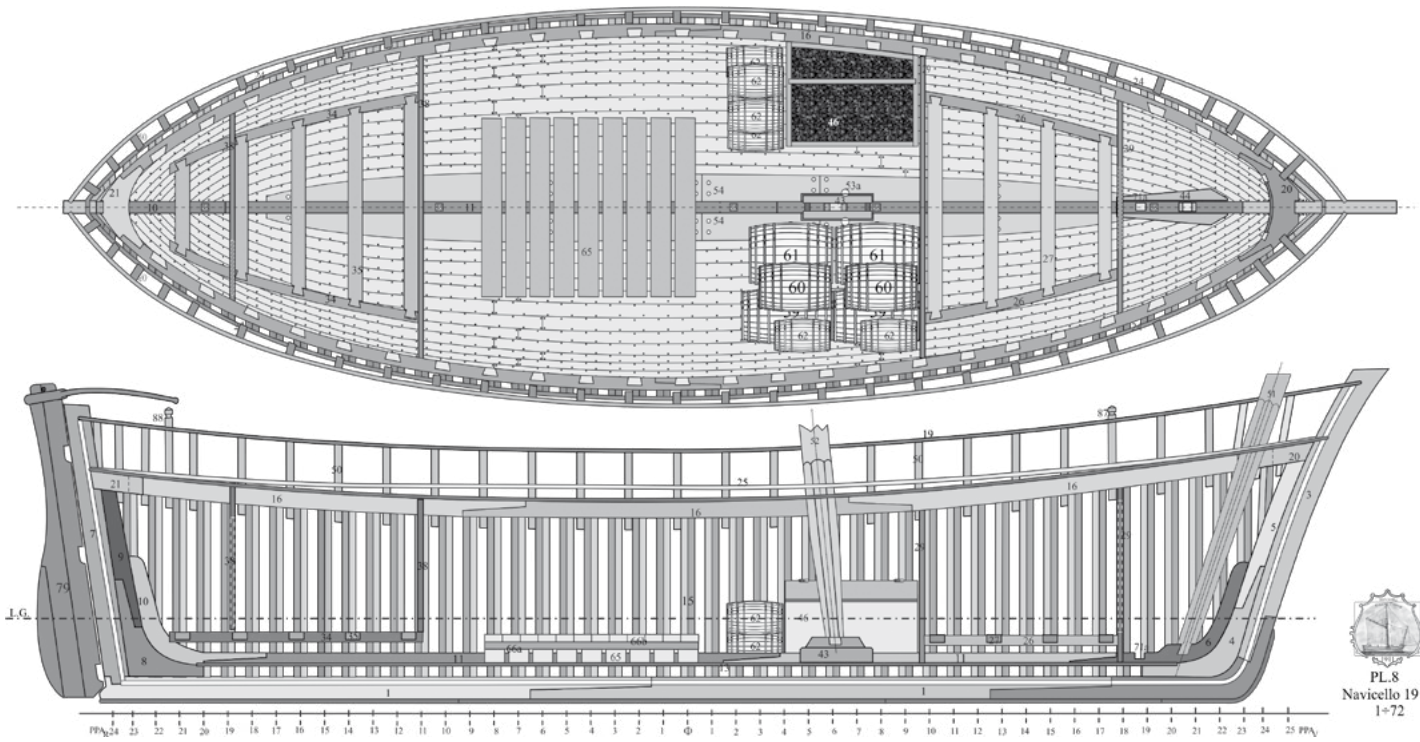


Some pictures



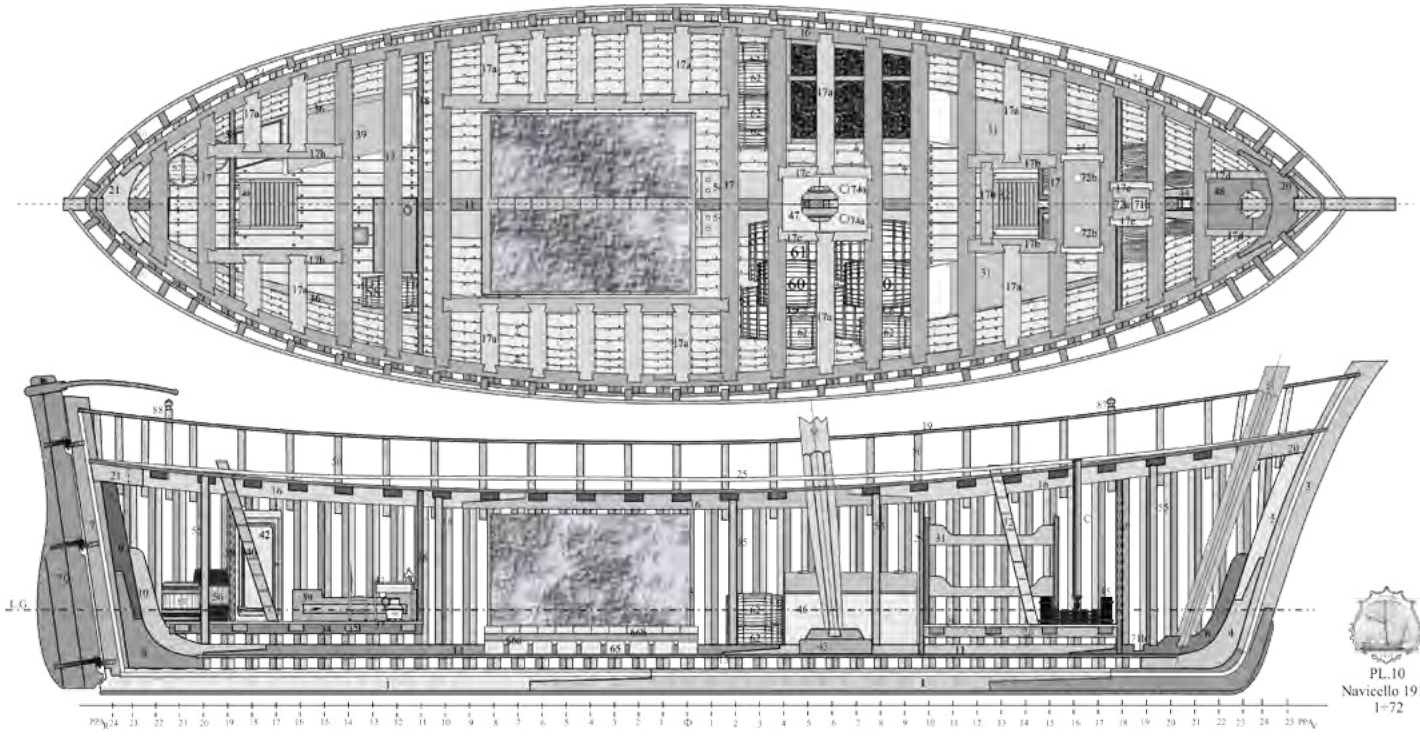
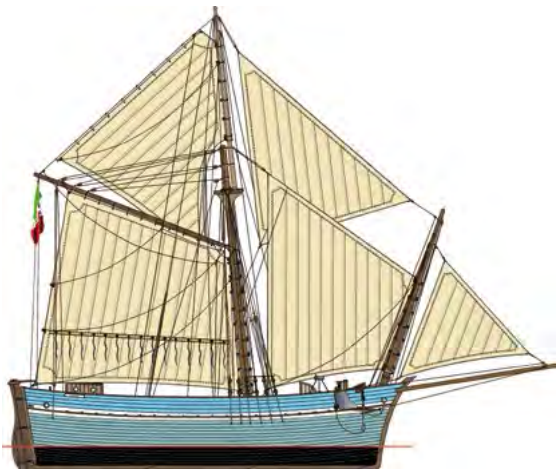
RIGGED MODEL			HULL ONLY		
Length	Breadth	Height	Length	Breadth	Height
73	16	62	53	16	10

Extract from plates



PL.8
Navicello 1911
1=72

A.M.F.F. - Firenze © 1971



PL.10
Navicello 1911
1=72

A.M.F.F. - Firenze © 1971



L'INVENTION

**Four-masted
privateer
1799-1810**

Monograph 1/48

*All the drawings necessary to
make a fully-framed model*

GÉRARD DELACROIX

Privateers, contrary to pirates, were entirely legal. They generally used old merchant vessels, but some of the ships used were built specially to chase and capture. During the Napoleonic wars (1793-1815) about 2,900 French privateer ships were used on the world's seas. During this period, and under pressure from English cruisers which were strangling French maritime commerce, entrepreneurs constructed and armed numerous privateer ships specially built for this purpose. Simple in concept, these ships were rapid and highly manoeuvrable for their effectiveness, even though they were economically built. The only end of the owners being their profitability, the construction of the

privateers was lightly executed at minimum cost.

The formula proved to be effective as English commerce and that of its allies was sorely tried by the war of intense competition at that time.

L'Invention, made in Bordeaux in 1799/1800, is one of these ships but innovatively designed for the period, having a hull with narrow lines and unique four masted rigging. It was a precursor well in advance of the clippers which were to come some decades later. Despite a short career as a privateer, it had the advantage of being built for the chase while adopting exceptional technical solutions.

The monograph comprises all the drawings necessary for a framed model as all the parts are illustrated and commented on. A range of technical notes and the detailed description of the rigging for a four-master complete the set of plans.

COMPOSITION OF THE BOOK

A monograph in a cloth slipcase and a cover painting by Jean Bellis, including an explanatory booklet of 130 pages with a set of 34 plans to a scale of 1:48 detailing its construction and rigging.

General background of privateering

- Privateering ships - Some plans of the Bordeaux privateers

Reconstitution of *L'Invention* :

Masting - The question of oars -

The deck - The hull

History of *L'Invention*

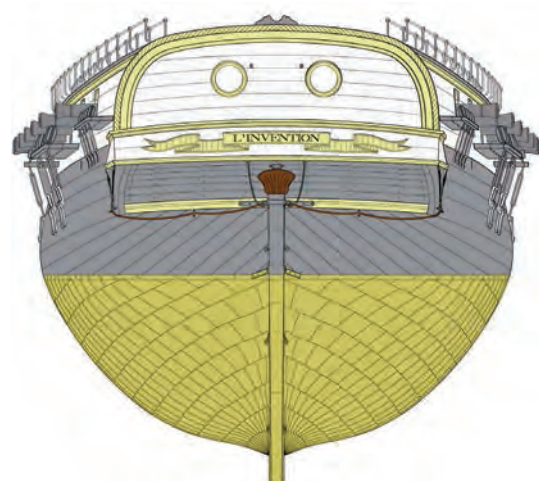
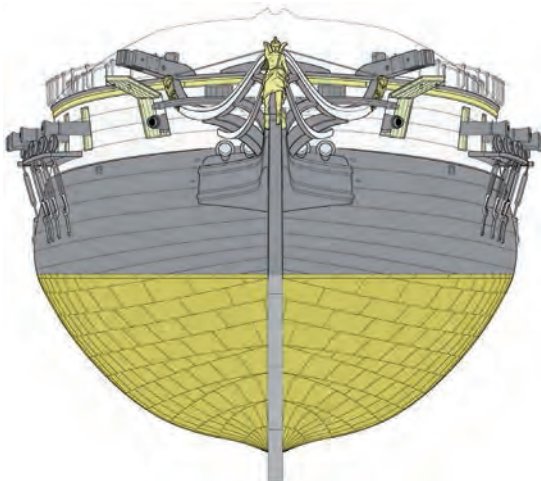
Monograph 1:48 - Commentary on the plans - Details of metal parts - Painting - Note on the guns - Timber dimensions - Description of the rigging - Masts - Yards - Sails

THE PLATES :

- 1 - Schematic sheer plan.
- 2 - Body plans (Transverse sections)
- 3 - Half breadth plans (Horizontal sections)
- 4 - Parts of the axial framework
- 5, 6 & 7 - Drawings of the frames
- 8 - Hawse timbers
- 9 - Rear framework and quarter badge construction
- 10 - Sheer view of the framework
- 11 - Hull planking Part 1 and hold ceiling planking
- 12 - Hull planking Part 2
- 13 - Construction of the head and beakhead
- 14 - Longitudinal cross-section of the framework
- 15 - Hold fittings

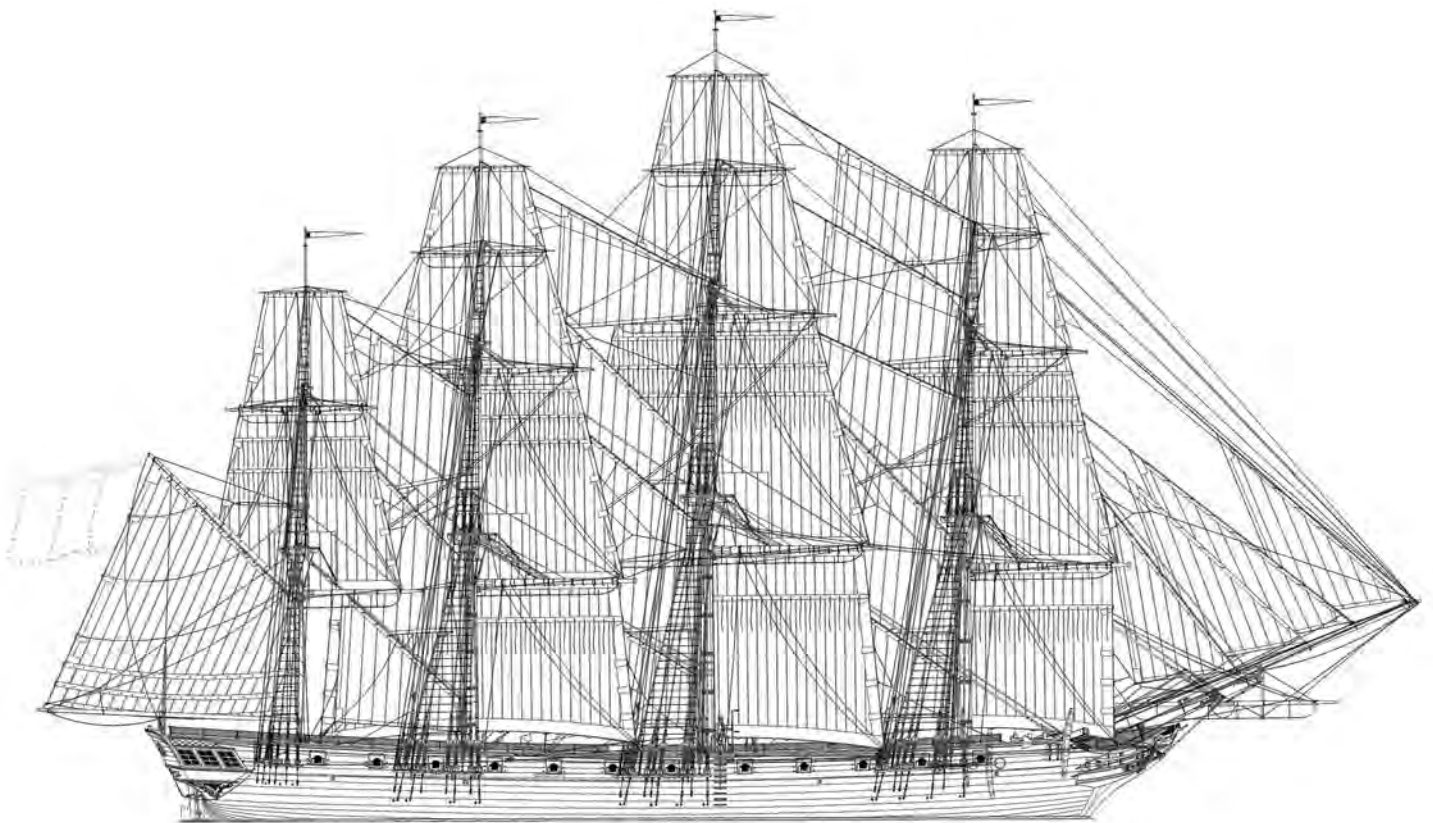
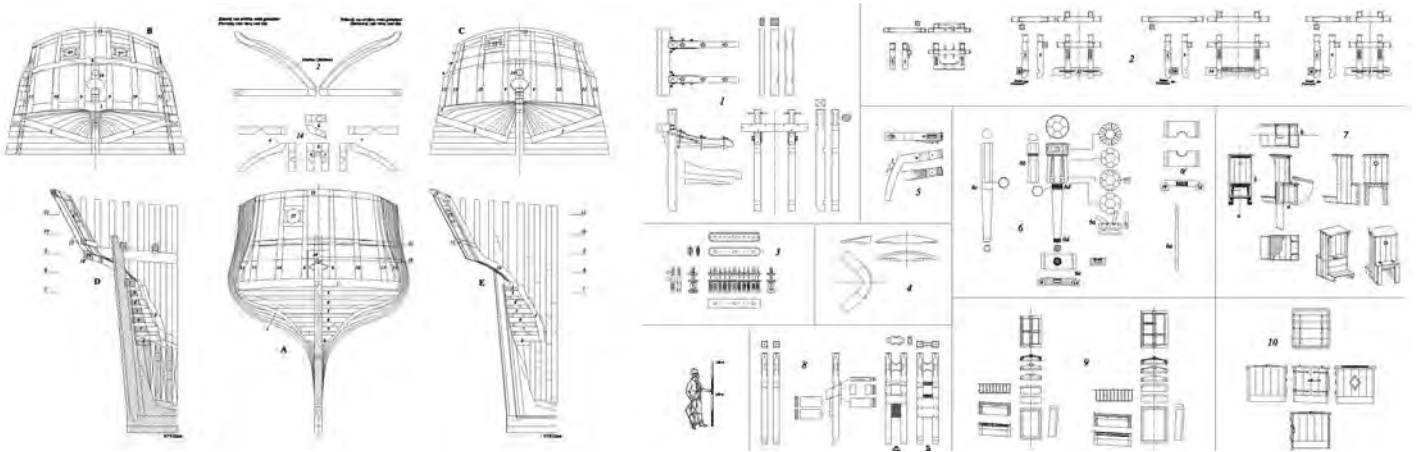
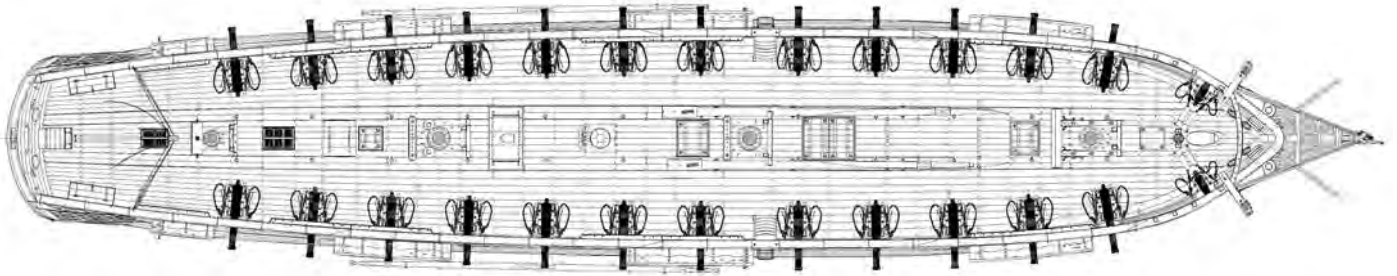
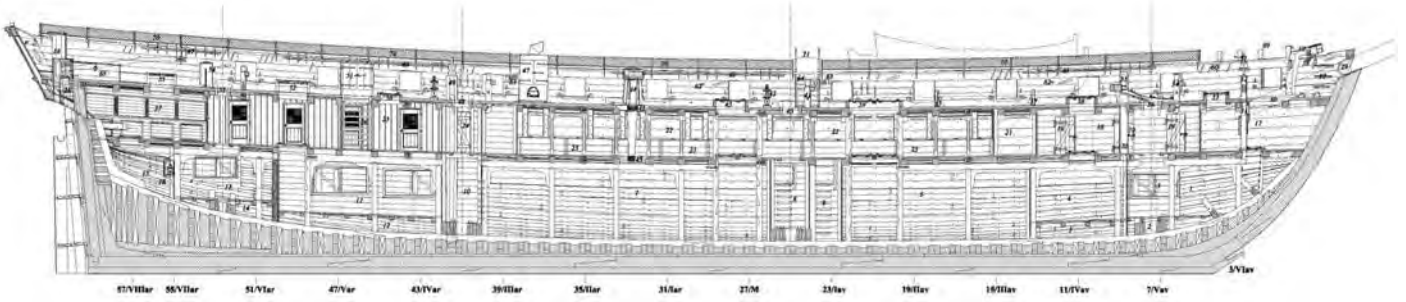
- 16 - Orlop deck structure
- 17 - Orlop deck fittings
- 18 - Main deck structure
- 19 - View from above the fitted deck
- 20 - Longitudinal section with fittings
- 21 - Cross-sections
- 22 - Fittings, Part 1
- 23 - Fittings, Part 2
- 24 - Copper cladding
- 25 - Overall side view of the hull
- 26 - Front and rear views
- 27 - Masting
- 28 - Mast fittings
- 29 - Mast fittings and blocks
- 30 - Sails
- 31 - Standing rigging (without sails)
- 32 - Rigging for the longitudinal sails
- 33 - *L'Invention* under sail
- 34 - Belaying plan

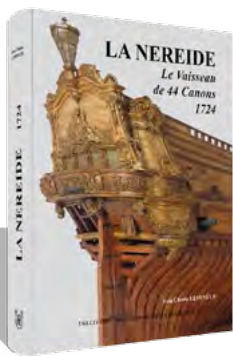
L'INVENTION



RIGGED MODEL			HULL ONLY		
Length	Breadth	Height	Length	Breadth	Height
135	44	87	103	20	18

Extracted from the plates





LA NEREIDE

A 44-gun ship-of-the-line

1724

A monograph at the 1/48th scale

All drawings for the construction of a frame model

Jean-Claude LEMINEUR

This monograph is concerned with 44-gun ships-of-the-line classified in the fourth rate among the five rates of ships established according to their fire power. During the reign of Louis XIV, the French Royal Navy assigned them to numerous missions normally belonging to frigates. As opposed to light frigates, they had two decks. This second deck brought an appreciable advantage which added to the advantage provided by a second battery, as it had the important characteristic of providing shelter to the crew for sleeping and for protection in bad weather.

However, its presence increased the height of the upperworks and increased the overall weight, thus impairing its sailing

performance. Thus, the ship was slower and its resistance to side-wind is lowered as compared to frigates of future years without a second deck. But architectural concepts of the era could not make this handicap unacceptable. These concepts would only undergo a revolution in the first half of the 18th century as a result of the metamorphosis of the light frigate. During the second half of the 17th century, no less than 79 vessels of the fourth rate, including 35 of 40 to 44 guns, were built. As opposed to vessels of the third, second and first rate, they retained their main characteristics, the evolution they underwent concerning only their stem and stern rakes and some attempts at improving the nautical characteristics of the hull lines.

About these vessels of the 17th century, we only have numeric data from the specifications of the proportions, without any draft. We must remember that construction was carried out without plans according to traditional methods. The use of drafts only appeared much later. The reign of Louis XIV concluded with a cessation of activities in the naval yards. It is necessary to wait until the regency of Philippe d'Orléans for it to pick up again timidly with the construction, from 1722 to 1724, of four vessels of 40 to 48 guns on a practically identical model to those of the 17th century. These four vessels were practically the last to have been built on the same proportions. They were considered to have sufficient nautical qualities.

Among the vessels built between 1722 and 1724, we find the *Néréide* built at Rochefort in 1724 by Joseph and Blaise Ollivier. In particular a slanted ceiling instead of footwaling, in order to better counter hogging, and the replacement of the cumbersome spritsail topmast by the jibboom.

Curiously, *Néréide* was the object of drafts of her cross and longitudinal sections by Blaise. Moreover, he left behind many treatises on ship-building. In one of those, he describes the method of drafting the underwater lines of vessels according to their rate, following his own concepts.

All of these documents make it possible to build a faithful replica of this type of vessel, thus justifying the present monograph.

MAKE UP OF THE DOCUMENT

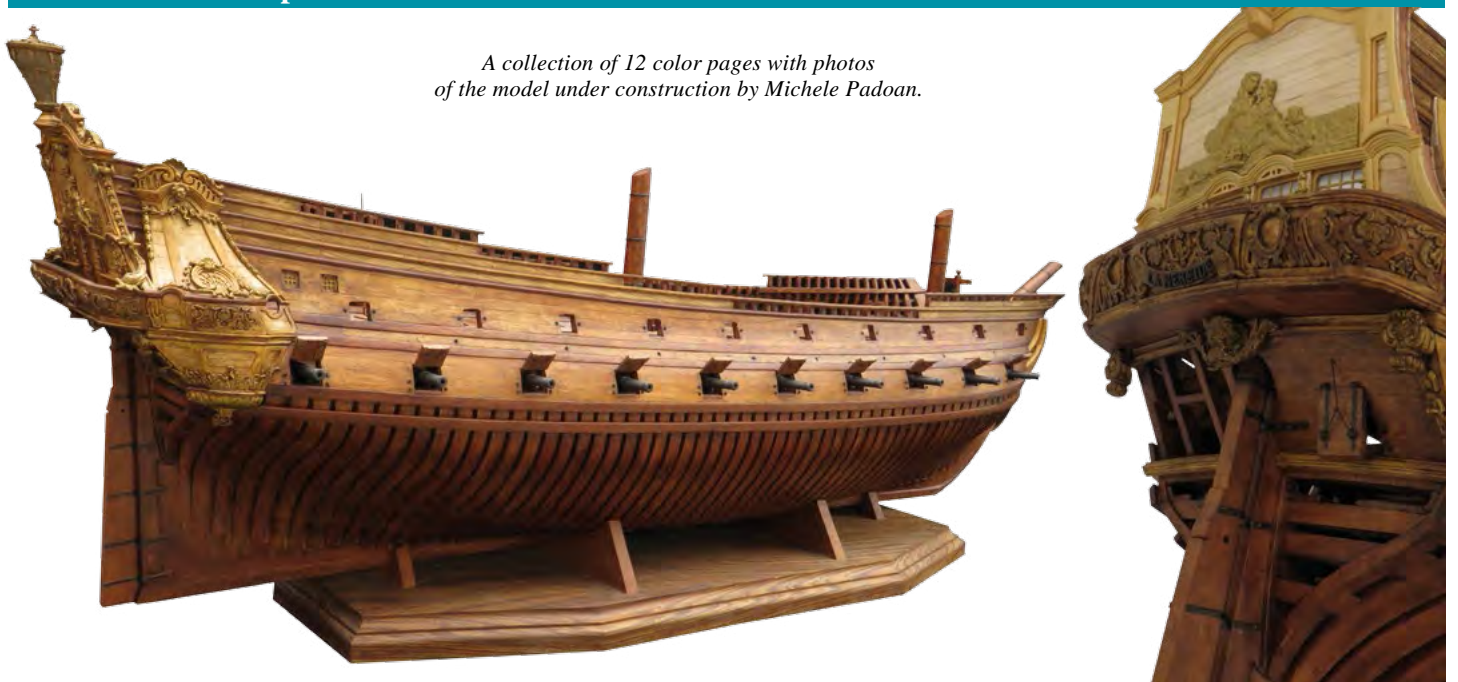
Presented in a 24x31 cm cloth-covered slip-case containing a 132-page booklet comprising the sources, the history and reduced-format plates with comments and a 12-page color booklet with 50 photos of a framed model, as well as 25 plates at the 1/48th scale necessary for the construction of the frame.

CHAPTER

- Ch. 1 :** Evolution of the 44-gun vessel. Study of 7 vessels of the second half of the 17th century.
- Ch. 2 :** Sources and examination of drafts by Blaise Ollivier, including an history of his career.
- Ch. 3 :** Artillery and its rigging, anchors, blocks, masts and yards and sails.

- Ch. 4 :** The rigging and routing of running rigging as well as their diameter.
- Ch. 5 :** Comments on the 25 plates, body of the ship, timber structure, inside accommodations.
- Ch. 6 :** Annexes, running rigging and summary of the royal regulations.

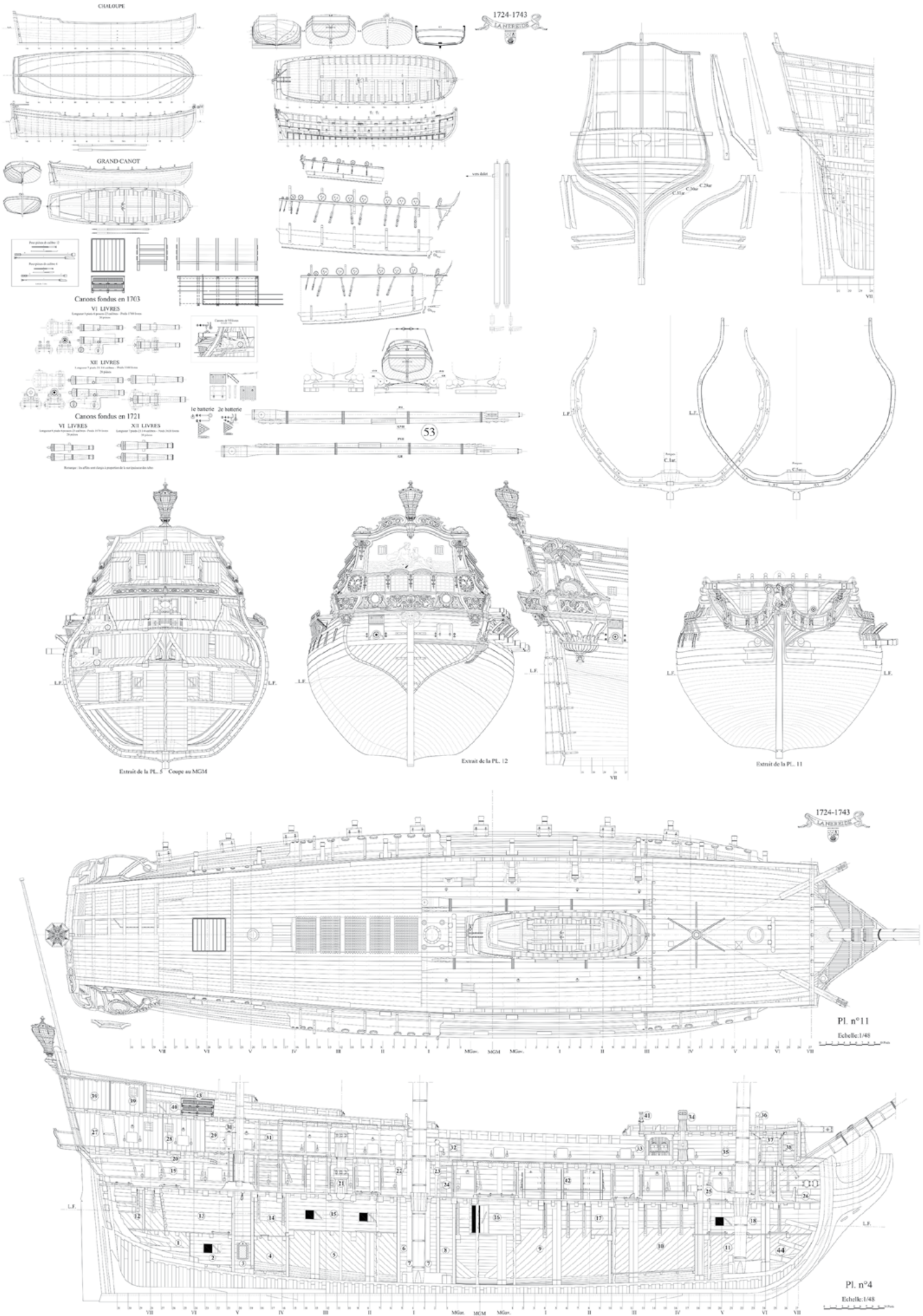
Extracts from the photo album



A collection of 12 color pages with photos of the model under construction by Michele Padoan.

MODEL RIGGED			HULL		
Lenght	Width	Height	Lenght	Width	Height
120	72	110	97	23	33

Extracts from the plates





HERMIONE

Frigate of the American War of Independence

1779 - 1793

A 1/48 SCALE MONOGRAPH

The book includes all timbering plans

Jean-Claude Lemineur

Patrick Villiers

On March 10, 1780, The Marquis de Lafayette boarded *Hermione* on his way to the coasts of North America. He left to announce the arrival of royal troops to fight the English occupier on the side of the insurgents. The crossing was accomplished in the record time of 48 days. This performance was due to *Hermione's* excellent nautical qualities. In fact, *Hermione* was a new-generation frigate built before the revolution. Started on the ways in December 1778, she benefited from important advances that were brought about by a new concept developed during the second half of the 18th century that translated into seagoing capabilities well beyond those of vessels built

according to older designs. Like the other frigates of her generation she allied speed and firepower, allowing her to rival those of the Royal Navy. But what did *Hermione* look like?

Surprisingly, nothing specific remains concerning her, except for the information that she was constructed on the same plans as *Concorde*, built in 1777. As it turns out, *Concorde's* lines were taken off by the Royal Navy after her capture in 1783, and the plans were kept at the NMM in Greenwich.

It is fair to believe that *Hermione* is similar. However, the plans reveal some peculiarities specific to *Concorde*, which is and not present on *Hermione*. Her battery is pierced for 14 gunports to each side, not counting the chase ports. The arrangement of the gunports, which is obviously different, results in a reduction of the quarter-galleries volume. Finally, between 1777 and 1783, the existing frigates were the object of many modifications that *Concorde* was not spared. What were they compared to the original? Did they also apply to *Hermione*? Although she was built on the same plans as *Concorde*, *Hermione* was distinguished by some notable differences in her overall aspect.

Her looks were thus undefined and remained to be discovered!

Gathering all historical and archeological elements, referring to different works dealing with contemporaneous naval construction and examining the plans of similar frigates, on the strength of his experience on the subject Jean-Claude Lemineur attempts to give to *Hermione* a look that is the most probably close to reality.

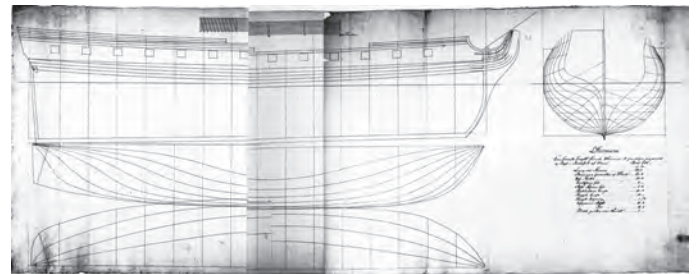
COMPOSITION OF THE MONOGRAPH

An initial chapter is concerned with the nautical qualities that warships must have possessed. They were especially mediocre for vessels built during the 17th century and the first half of the 18th because of the use of obsolete concepts. The new design concepts that were adopted toward the end of that period are described next, as well as the improvements in performance and sea-going capabilities that resulted.

A second chapter is the object of a detailed study of documents concerned with the architecture and characteristics of sister-frigates, a study that allows the identification in a plausible manner, of the various poorly

known aspects of *Hermione*.

Thirty-four plates, most of them with comments, provide a detailed picture of the ship.



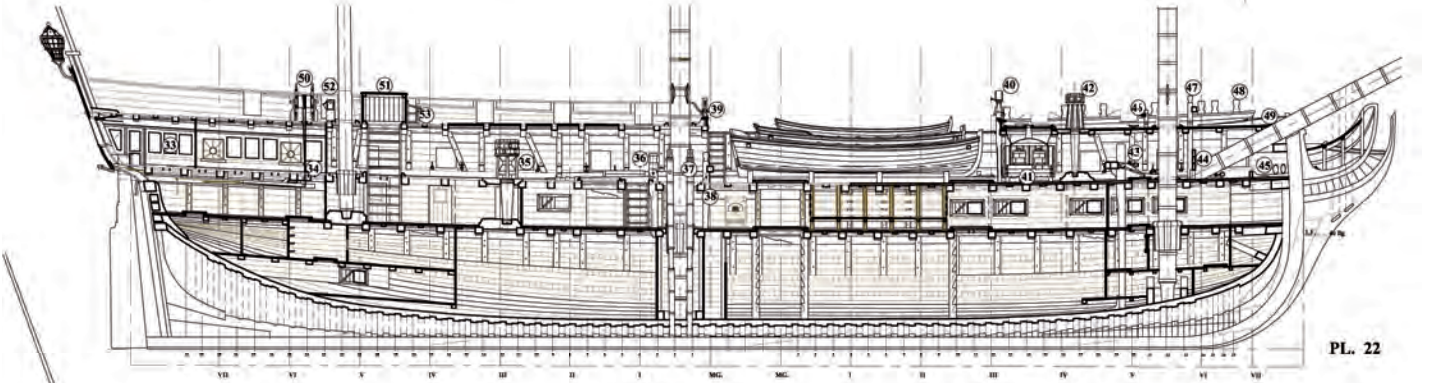
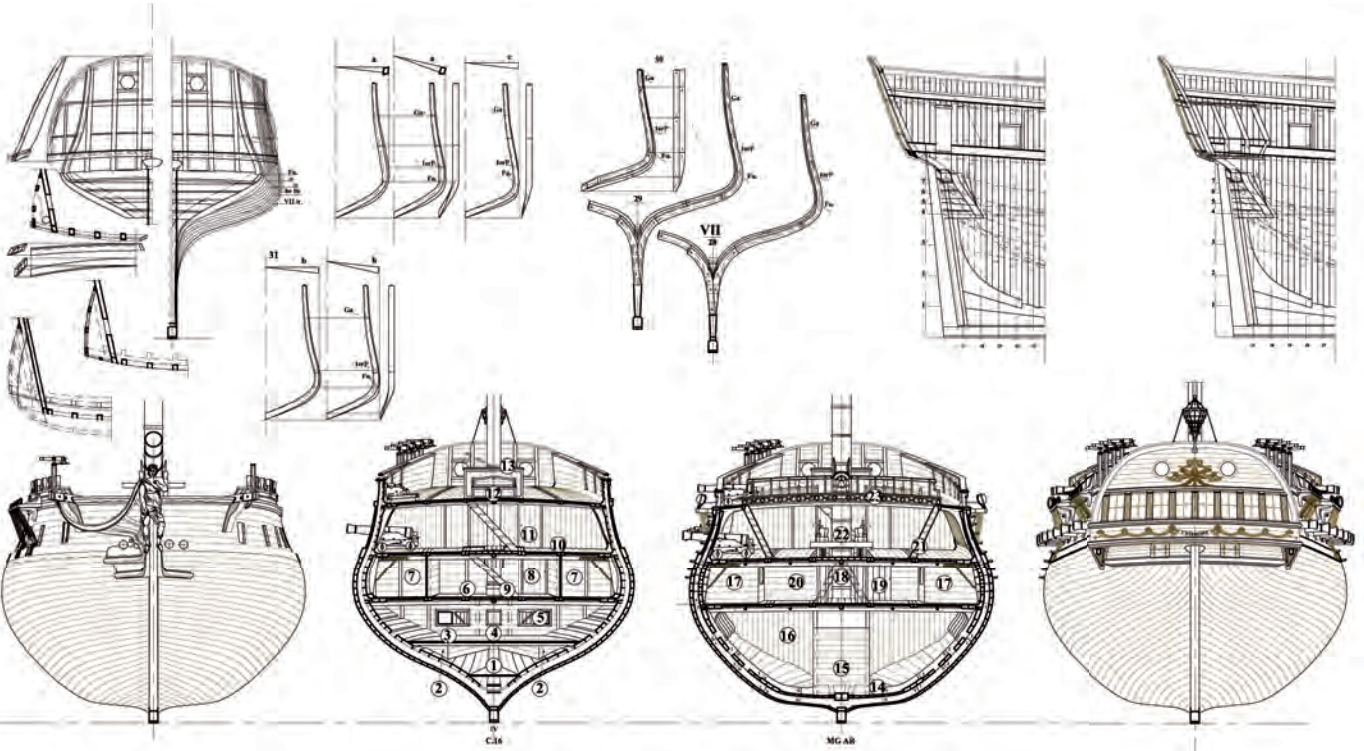
LISTE OF THE PLATES au 1/48th

1. Schematic elevation
2. Schematic plan view
3. Vertical view of frames
4. Construction of the stern
5. Construction of the stern-frame
6. Construction of the hawse pieces I
7. Construction of the hawse pieces II
8. Profiles of aft frames 1 to 6
9. Profiles of aft frames 7 to 12
10. Profiles of aft frames 13 to 19
11. Profiles of aft frames 20 to 29
12. Profiles of the main frame and forward frames 1 to 5
13. Profiles of forward frames 6 to 11
14. Profiles of forward frames 12 to 18
15. Profiles of forward frames 19 to 24
16. Timbered elevation
17. Plan of the bottom of the hold
18. Between-decks plan
19. Timbering of the gundeck and castles
20. Gundeck and its furniture
21. Castles and their furniture
22. Lengthwise section
23. Cross-sections
24. Built-up elevation
25. Decoration of the stem and stern-frame
26. Artillery and furniture
27. Elements of furniture
28. Plans of masts and yards
29. Mast fittings
30. Mainmast masts and rigging
31. Foremast masts and rigging
32. Mizzen masts and rigging
33. Running rigging (1/72 scale)
34. *Hermione* under sail (1/72 scale)

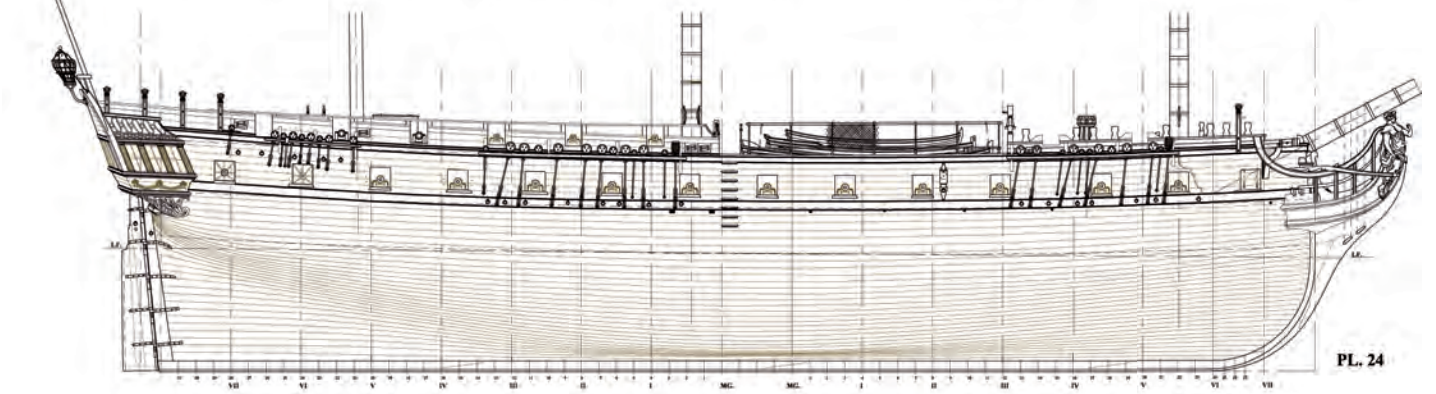
RIGGED MODEL			HULL ALONE		
Length	Width	Height	Length	Width	Height
140	70	110	101	24	22

Centimeters

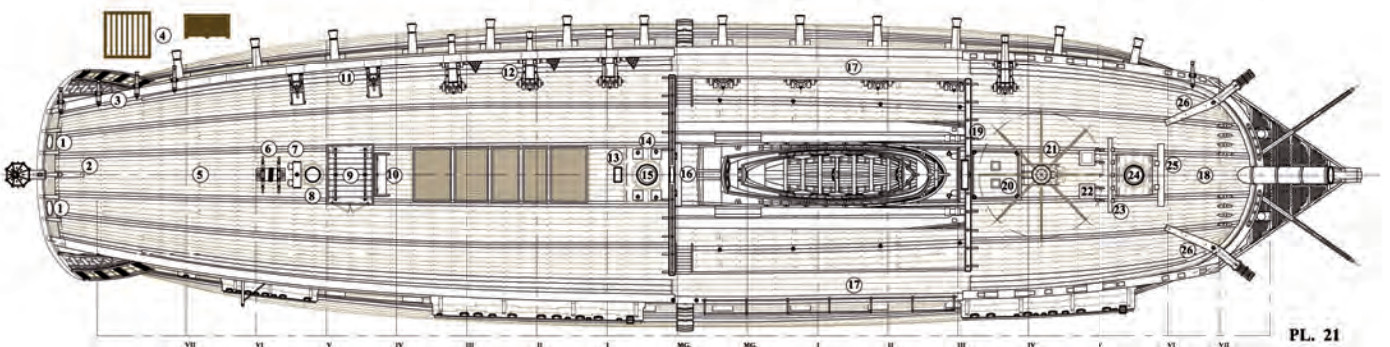
Extracts from the plans



PL. 22



PL. 24



PL. 21



HERMIONE

LAFAYETTE'S FRIGATE

at the service of the American independence

A study accompanied by historical documents from 1764 to 1793

Patrick Villiers
Jean-Claude Lemineur

Whereas *Hermione* is indeed the vessel that forewarned American patriots fighting England, about the arrival of the French fleet and the troops led by Rochambeau, it was also a symbol of the rebirth of the French military Navy. After having triumphantly landed the Marquis de Lafayette in Boston, the frigate was the first French ship to have taken aboard the United States Congress. She then fought brilliantly for almost 18 months in the service of the American cause. In combats against the Royal Navy off New York and Louisburg, captain Latouche-Tréville displayed the talent that brought him to become one of Napoleon's best admiral. Before sailing on

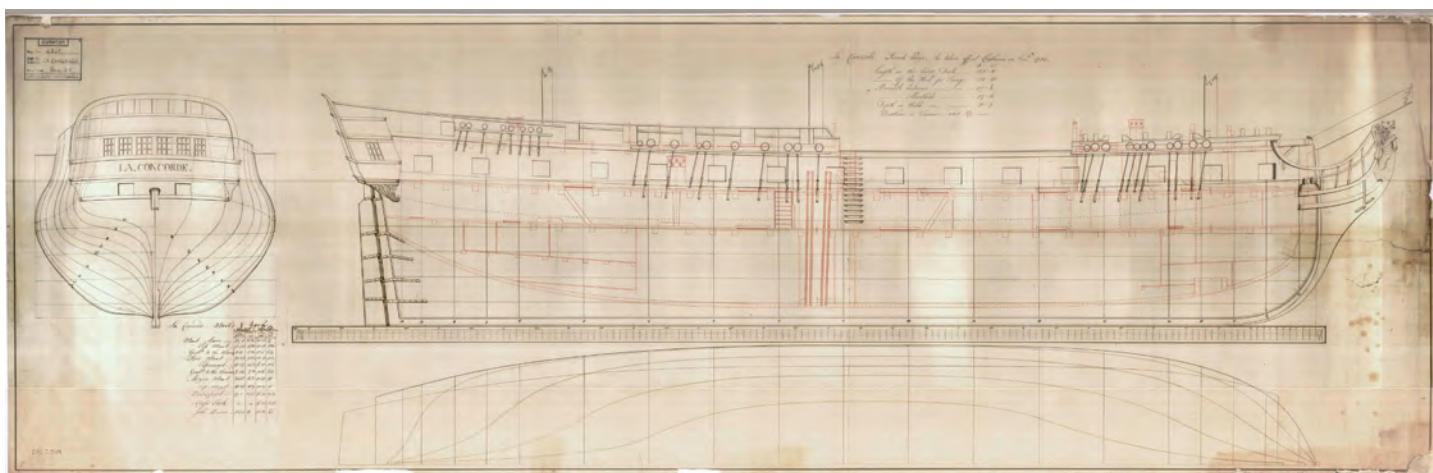
Hermione, Gilbert de Lafayette financed his own ship *Victoire* in 1777, with the assistance of Louis XVI's secret service. The sale of its cargo of weaponry financed his glorious 1777 to 1778 campaign that owed him the rank of an American general, and allowed him to become the friend of Washington and other main insurgent generals. The crossing of the Atlantic by Lafayette and *Hermione* symbolizes four years of indefectible support of the American cause by France. Here Patrick Villiers and Jean-Claude Lemineur offer us the opportunity to join the destinies of two heroes of the American War of Independence with a beautiful frigate, representative of the victorious struggle for control of the Atlantic Ocean indispensable for the independence of the United States. From the names of the crew members to the commissioning of *Hermione* through the cargo of weaponry of *Victoire*, many documents had been lost in archives up to now, or were only known by a few specialists.

BOOK MAKEUP

A book in the 23x31 cm format. The book has 220 pages full color, with over 230 illustrations.

- | | |
|--|--|
| <ul style="list-style-type: none"> I. Lafayette, the legends and realities of the first engagement in the service of the Patriots. Lafayette, a minor under the control of his inlaws, the <i>Victoire's</i> cargo, what value and for what profit? Lafayette in the face of his destiny. II. 1775-1778, first the warships, the frigates from 1764 to 1767, Choiseul's plan, the threat to Rochefort and the renewal. III. The importance of maritime trade and its protection by both sides, the rôle of corvettes while waiting for frigates, the beginning of war in Europe, the victory of Ushant and the necessity for an alliance with Spain. IV. The conflict in the United States. Lafayette from Brandywine to Valley Forge, Lafayette becomes a soldier and Washington's adopted son. V. 1778, the French Navy on the American coasts, Lafayette and Admiral d'Estaing, from Newport to Boston. VI. Return to France, Comte de Broglie's plan and the 1779 landing attempt. Lafayette at Le Havre. VII. A new start for America, Ternay and the expedition's preparations, Lafayette and Rochambeau. VIII. <i>Hermione</i>, from the decision to build it to the choice of the engineer Henri Chevillard, so-called The Elder. IX. A frigate that was built in six months, a model construction. | <ul style="list-style-type: none"> X. Latouche-Tréville, from the <i>Rossignol</i> to <i>Hermione</i>. XI. <i>Hermione's</i> crew in 1780. XII. <i>Hermione</i> and Lafayette, the voyage to Boston XIII. <i>Hermione</i> and Latouche-Tréville in the service of the insurgents, 1780 - 1781: the combat against <i>Iris</i>, in patrol along the East coast, in the service of Ternay, the first battle of the Chesapeake. XIV. Lafayette and Yorktown, <i>Hermione's</i> contribution to the conflict: the Louisburg combat. XV. From the American missions to the service of comte de Grasse and the return to France. XVI. From Peru, a new captain and missions in the South Atlantic and in the Indian Ocean in Suffren's service 1782 - 1784. XVII. <i>Hermione</i> from the end of Louis XVI's reign to the Revolution and the wreck. XVIII. The wreck of the <i>Hermione</i> in the twentieth century. XIX. Annexes: The <i>Hermione's</i> muster book.
<i>Hermione's</i> guns
The frigates' figureheads and decorations
Plot of Lafayette's 1780 voyage from the ship's logbook.
Extract from the <i>Hermione's</i> and <i>Rossignol's</i> logbooks |
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Extracts from the plans



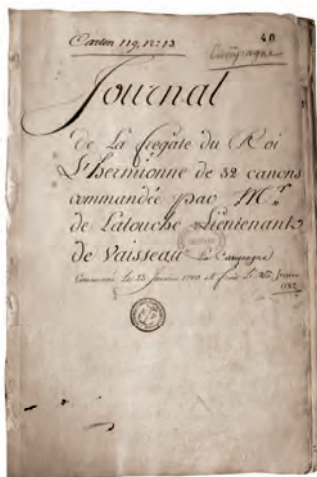
Extracts from some illustrations



▲ *Combat between Belle-Poule and Arethusa* by Rossel de Cergy. This first engagement heralded the start of a long series of victories by French frigates. The drafts of Belle-Poule, built at Bordeaux in 1766 were a considerable inspiration for the construction of the Rochefort frigates, and in particular Hermione. Commissioned by Louis XVI to produce representations of the combats of the War of Independence, Rossel de Cergy is a precious and particularly reliable reference.

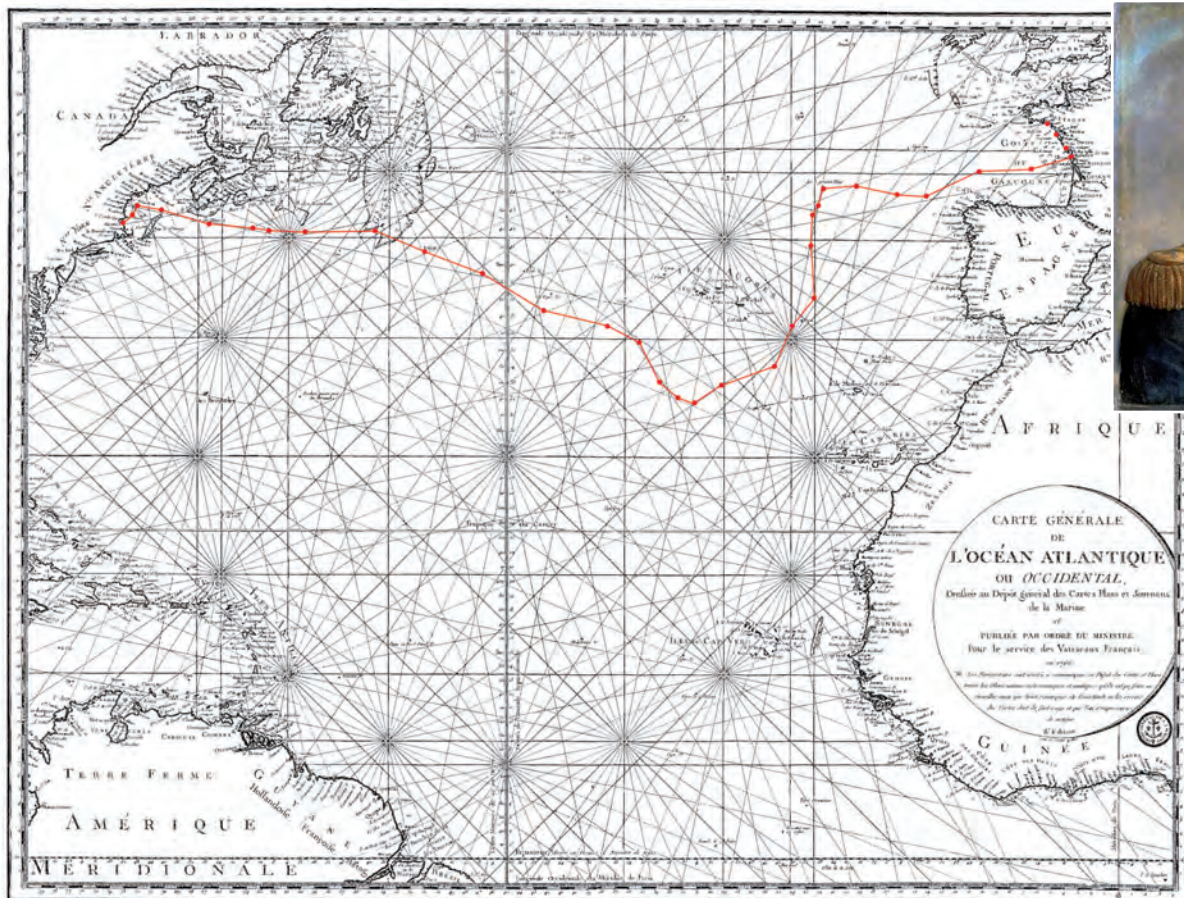


▲ *Lafayette and Washington at Brandywine in 1779*: under Washington's eyes, Lafayette asserted himself in the eyes of Americans by his bravery as well as his tactical ability. He earned his stars as an American general in combat.



◀ *Logbook of the Hermione, one of three written by Latouche-Tréville*

▶ *A portrait of Latouche-Tréville by George Rouget in 1841, from the Musée de l'Histoire de France at Versailles. According to Napoléon the 1st, who made him an admiral in 1803, Latouche-Tréville was the best French admiral of the Revolution and Empire eras. He showed himself to be one of the best frigate commanders of the War of Independence, not only by transporting Lafayette, but also in the service of the American cause from Louisburg to Yorktown.*



◀ *A sidescript on Lafayette's voyage from Latouche-Tréville's logbook that enabled us to recreate precisely Lafayette's trip aboard Hermione, the speeds that were attained and the struggle against bad weather.*



**CAVELIER de LA SALLE
THE 1684 EXPEDITON
LA BELLE**

A 1/36th SCALE MONOGRAPH

The book includes all timbering plans

Jean BOUDRIOT

This new monograph originated from the exceptional discovery, in 1995, of the remnants of this small ship that was part of Cavellier de la Salle's expedition in 1684. The information given by the ship wreck could then be added to archives information in order to reconstitute in a plausible way this modest ship rightly named *La Belle*, as you can see with her representation on this document cover. This monograph has an archeological, historical and artistic value. It also stems from our concern to continue studying 17th century French naval architecture (see M. de Tourville's Three-decker ship). Of course, *La Belle* is much reduced in size, but she is nevertheless a tremendous learning experience.

Hardback Volume John de Bry wrote the historic part of the book (page 8 to 21), relating Cavellier de la Salle's life, his 1684 expedition and his tragic death. Then James E. Bruseth and Layne Hedrick relate the ship wreck's discovery, the use of extensive means to explore it and then they describe the results of the search (pages 22 to 34).

The first part being presented by historians and archeologists, the second part is dedicated to reconstituting *La Belle*, first by examining the sources (pages 35 to 46), which are fundamental to this work.

The monograph itself includes twenty plates followed by the rigging rules, illustrated with schemas in order to complement the various drawings and notes.

Jean-Claude Lemineur's study then deals with the volumetric definition of the hull.

Nearly 90 pages were necessary to constitute a "real construction file" (pages 47 to 134).

The monograph ends with an outstanding series of shots of three models of *La Belle*, built by the talented Bernard Frölich, Henri Defresne and Etienne Piette (pages 135 to 155).

PRESENTATION OF THE MONOGRAPH

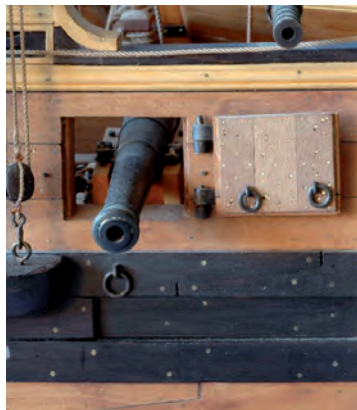
24 x 31cm format, full grey-blue cloth strong binding, laminated inside dust jacket.
160-p. (including 22 color pages) square spine pasted and sewn booklet, 160 gr. offset paper

The plates are already reproduced in the hardback volume at 1/48th scale.
They are gathered here to build the model at 1/36th scale.



LISTS OF PLATES at 1/36th

- 1 Elevation
- 2 Horizontal sections
- 3 Vertical sections
- 4 Frames (1)
- 5 Frames (2)
- 6 Longitudinal timbers
- 7 Frame elevation
- 8 Bow timbers
- 9 Stern timbers
- 10 Cross sections
- 11 Longitudinal section
- 12 Deck, first stage
- 13 Deck second stage

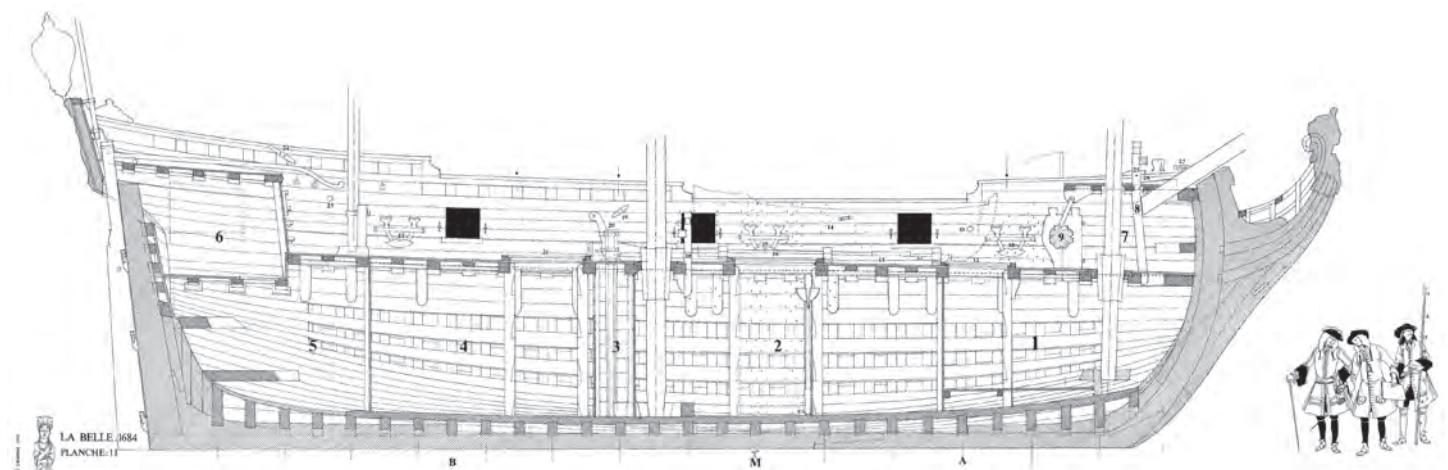


- 14 Deck third stage
- 15 Fitted elevation
- 16 Front et rear views
- 17 Fitting, guns, décoration etc.
- 18 Mast and spars, rigging
- 19 Sails (1/48)
- 20 *La Belle* sailing (1/36th)



MODEL RIGGED			HULL		
Lenght	Width	Height	Lenght	Width	Height
90	45	77	82	22	27

Extracts from the plans





FLEURON

64 GUN SHIP

from the shipbuilders
Joseph and Blaise Ollivier

1729

Monograph

Accompanied by twenty four 1/48th
plates, two 1/96th and 1/72nd plates

This monograph is the first in the series to be devoted to a ship of the line. It is of particular interest since the ship we have chosen, the *Fleuron* - as it was conceived by Blaise Ollivier - is the first modern French ship. Moreover it represents a pure example of the French school of naval architecture. An exceptionally complete corpus of documentation includes a full description of the classification and characteristics of the ships, its creator's own drawings, original sketches of the ship's decoration and sculptures by Caffieri, and a complete set of information on the ship's rigging found in a manuscript of the period. Because of the catastrophic losses incurred in our

archives, it is extremely rare for us to have been able to collect so much material from irrefutable historical sources.

Gérard Delacroix, who did the drawings for the monograph, is a professional draftsman and a talented ship's model builder. He assisted his mentor, Jean Boudriot, in developing and completing this study which we are particularly pleased to offer in our collection. The distinguished features of the vessel will attract the attention of discerning model builders. Its superb hull, elegant timbers perfectly defined and described, oblique inner planking, iron knees, bronze and iron cannon, French riggings with round tops all make the construction of this model a formidable challenge. An alternative model of the rigging without timbers may also be built using the instructions at 1/72th scale.

The *Fleuron* was actively involved in very few combat operations but her career was an unusual one in that she cruised the Baltic Sea, where French squadrons rarely ventured, on three occasions. One of these expeditions affords us the opportunity to describe the preparation of a royal ship for a ball that was given on board.

COMPOSITION OF THE MONOGRAPH

- 135 p. monograph, 24 x 31cm format, including:
- Blaise Ollivier's manuscript
- J.J. Caffieri's decorations, rigging manuscript, 1732
- A biography of B. Ollivier with a bibliography
- A computer-assisted note on the drawings
- The history of the *Fleuron* 1729-1745
- Archival excerpts on the Baltic cruises and on a ball given on board the Bourbon
- Annotated Study of the plates
- Measurements and scantlings of timber pieces
- Description of the rigging
- Complete transcription of B. Ollivier's manuscript



LISTS OF PLATES

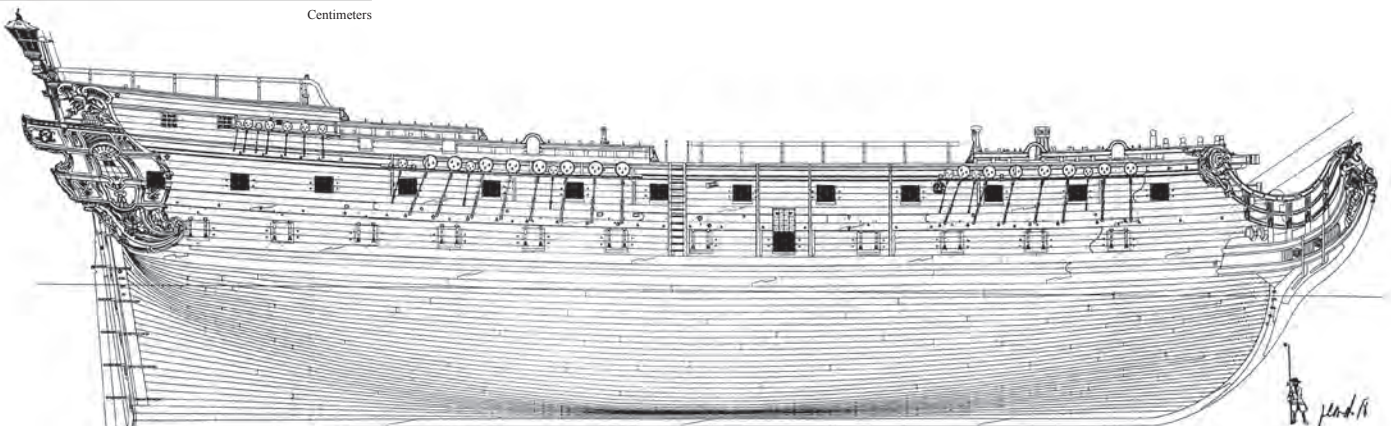
- | | | | | |
|---|------|---|--|----------------------------|
| 1 - Schematic views | | bow | 20-21-22- Fitting | (1/72 th scale) |
| 2 - Vertical sections | 12 - | Ceiling of the hull | 23 - Masts and yards | 28 - Belaying plan. Blocks |
| 3 - General view of the timbers. | 13 - | Cross sections | 24 - Fitting of the masts | (in the text). |
| 4-5-6 - Drawings of 62 frames | 14 - | Longitudinal section and accommodations in the hull | 25-26 - Sails (1/96 th scale) | 29 - Various. |
| 7 - Axial timbers and longitudinal section of the timbers | 15 - | Gun deck | 27 - Full view under sail | |
| 8 - The riders and deck cambers | 16 - | Upper deck | | |
| 9 - Fore woodwork | 17 - | Forecastle, quarterdeck and poop | | |
| 10 - Stern woodwork | 18 - | Overview and overhead views | | |
| 11 - Construction of the | 19 - | Front and rear views | | |



RIGGED MODEL			HULL ALONE		
Length	Width	Height	Length	Width	Height
148	58	115	116	27	34

Centimeters

Extracts from the plans





JACINTHE GOËLETTE 1823

1823 History of the schooner in the french navy & monograph method of model building

The DE LA MORANDIÈRE Engineer Schooner

This monograph is intended for those who want to practice ship's model building but do not have extensive experience. A basic model building method is included for them in this monograph.

With a little care and skill, the method leads to the construction of a model from prime quality material, since wood will be exposed on a planked hull. This monograph must be considered as an initiation to «The art of model building».

Confirmed ship's model builders will also be interested in the elegance of this small schooner, created by its fine underwater hull and its light rigging. They should find the lines of *Jacinthe*

quite appealing.

Those readers who are more specifically interested in naval archeology will find in this monograph a necessary addition to previous studies, as it deals with brigs, cutters, and luggers. These constructions complement the building of schooners. The historical and technical study of this type of ship is given with an extended iconography.

COMPOSITION OF THE MONOGRAPH

Text and iconography, format 24x31 cm including:	- History	- Various representations of schooners (P. Ozanne - F. Roux - J.J. Baugean)
	- Remarks on the avisos	
	- Schooners in the French navy	- Monograph
	- General points on schooner rigging	- Commentaries on the plates
	- Various schooner designs	- Rigging rules
	- Notes on schooner rigging	- Photos of the <i>Topaze</i> model's hull
	- Presentation of <i>La Jacinthe</i> with a study of the 12 French carronade	

Set of 5 plates, 1:48 th scale	1. Defining the hull, drawing out the waterlines, drawing the frames in order to make the model and draws for the stem and the stern with lower counter and stern.	Two sets of plans are provided. One is incorporated into the text, with plates 1 to 4 at 1:48 th scale, plate 5 at 1:100 th scale. The other set is independent with five plates at 1:48 th scale.
	2. Disposition of the planked hull, front and back views. Longitudinal section of the deck. Plan of planked deck and upper works.	
	3. Half plan of the deck for bulwark making. Cross sections. Drawings of fittings, bits, partners etc.	Building method - Foreword - Suggested method - Photos illustrating the method - Photos of a model in progress.
	4. Spars, guns, anchors, boat etc. Representation of square sails (topsail and topgallant) and their foremast rigging.	
	5. <i>La Jacinthe</i> sailing.	

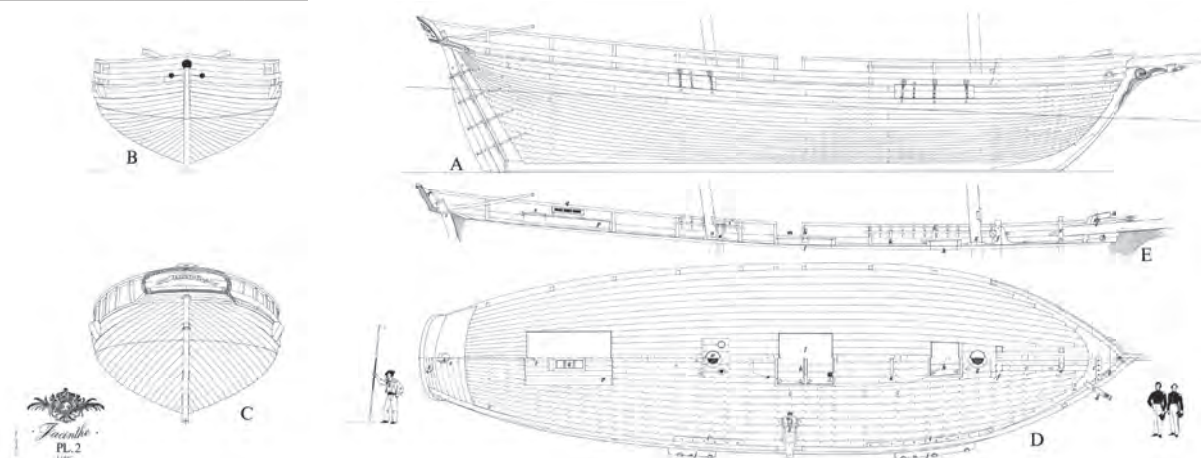
Some photos



MODEL RIGGED			HULL		
Lenght	Width	Height	Lenght	Width	Height
90	20	120	62	20	20

cm.

Extracts from the plans





ARMED LONGBOAT

1834

MONOGRAPH WITH 6 PLATES,
1:36TH SCALE

The book includes all timbering plans

Gérard DELACROIX

Besides their service usage aboard ships, longboats were also used for more warlike tasks. They could be used for the protection of harbor entrances or roads, as well as support for landings in enemy territory. In this case, the longboat was then referred to as an armed longboat. For such occasions, it was modified temporarily by installing a forward-firing chase gun atop the thwart. This gun was guided by a system of slides bolted to the thwarts. It was not a “gunboat”, which was a well-defined, larger and often decked boat-type, but a *regular ship’s boat armed with a large-caliber cannon*.

The longboat described here is 13.00 meters long., 3.49

meters wide under the planking and 1.40 meters depth-in-hold. The plates with comments are from a plan dated 1834 of the Atlas de Génie Maritime.

Gérard Delacroix, a talented modeler, describes (in 40 pages and 52 color photographs) his construction method for modeling beginners who may only have simple tools.

8 pages booklet with comments on the plates and 40 page construction method for beginners.

COMPOSITION OF THE PLATES

Set of 6
plates,
1:36th scale

- I forms the basis for the reconstruction, all lines taken from the original draught.
- II shows the framing of the boat by bending frames over a mold or plug.
- III gives the details of the skeleton of the longboat.
- IV illustrates precisely the details of the boat. The plan view, inboard profile and the four transverse sections define all the elements used to complete the hull. As with the previous Plate,

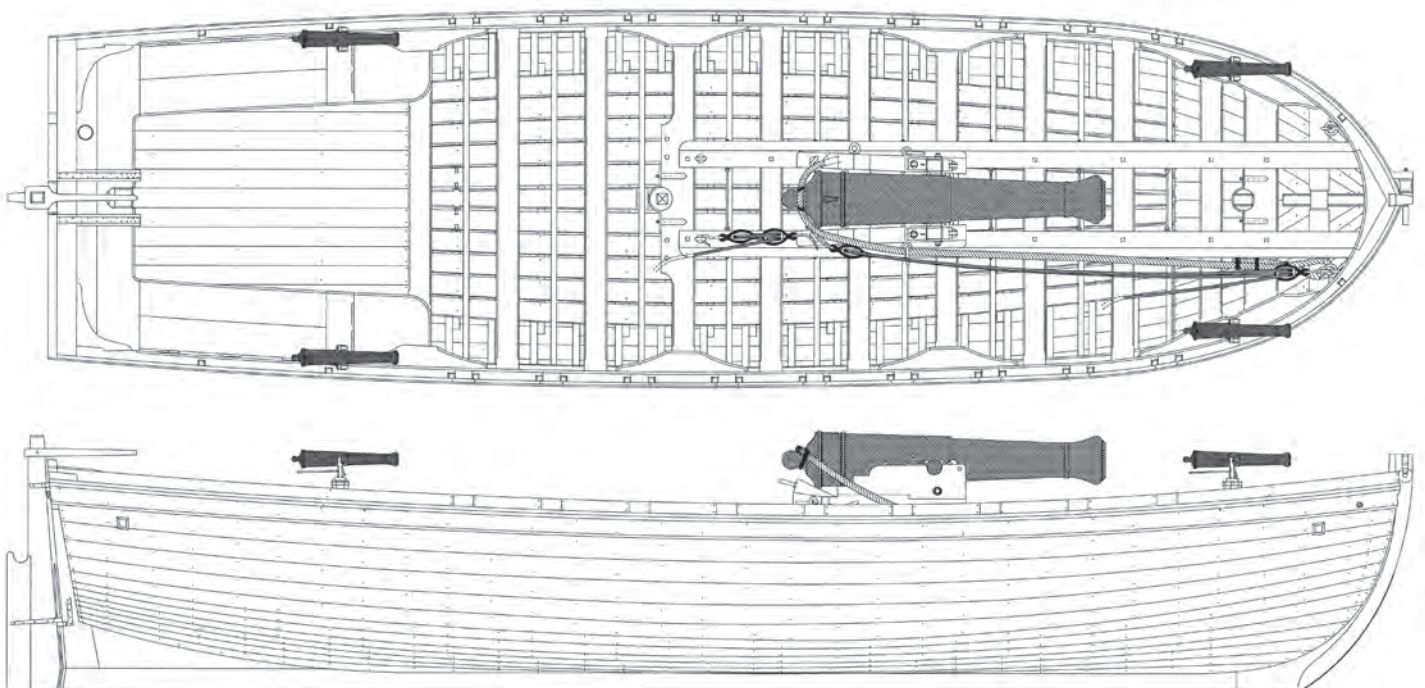
- V contains details regarding the fashioning and installation of the armament. In addition, there are details of certain other fittings such as the rudder-irons and the method of stepping the small mizzen-mast known as a jigger-mast.
- VI This plate shows the completed longboat, armed, and with the gun rigged.



HULL ALONE		
Length	Width	Height
37	10	7

Centimeters

Extracts from the plans





REQUIN

XEBEC 1750

A monograph including all plans of the timber works

Jean BOUDRIOT
Hubert BERTI

The ships of the Mediterranean are not often well-known or documented. As a consequence we felt it necessary to preface this monograph with a study of those ships, limited to those in the service of the Royal Navy in Toulon, with the addition of those ships that constituted the commercial version of the xebec. As usual our sources are comprised exclusively of documents of the period, with no "second hand" information. We follow our usual order of presentation. Not a simple booklet that is merely a companion-piece to the plates, this volume is a complete study whose subject justifies its importance.

Feluccas, brigantines, oared galiots, half-galleys, tartans, lateen

bark, polaccas, pinks, and finally xebecs are successively examined. This monograph on the xebec *Le Requin* is based on documentation that gives us a complete picture of this ship. Painstaking research has allowed us to collect period plans of this vessel, exhaustive information on its rigging as well as the full history of the ship in peace time, at the beginning of its career, then through its racing campaign during the Seven Years' War, and finally a full account of a 1762 squadron expedition under the orders of Monsieur de Bompard.

COMPOSITION OF THE MONOGRAPH

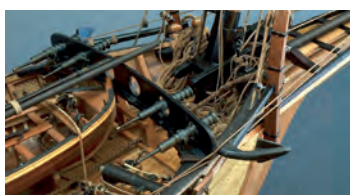
153 p. booklet,
24 x 31 cm
format,
including:

- A study of Mediterranean ships in the port of Toulon
- A study of the xebec
- Xebecs in the Royal Navy, 1750-1779,
- The xebec *Le Requin*, its description, history, 1762 expedition
- Detailed commentary with full explanation of the plates

- at 1:48th scale
- Commentary on 21 photographs of a period model of *Le Requin*
- All rigging rules for xebecs
- Glossary
- Commentary on 13 photographs of details of the rigging.

A set of
23 plates
including:

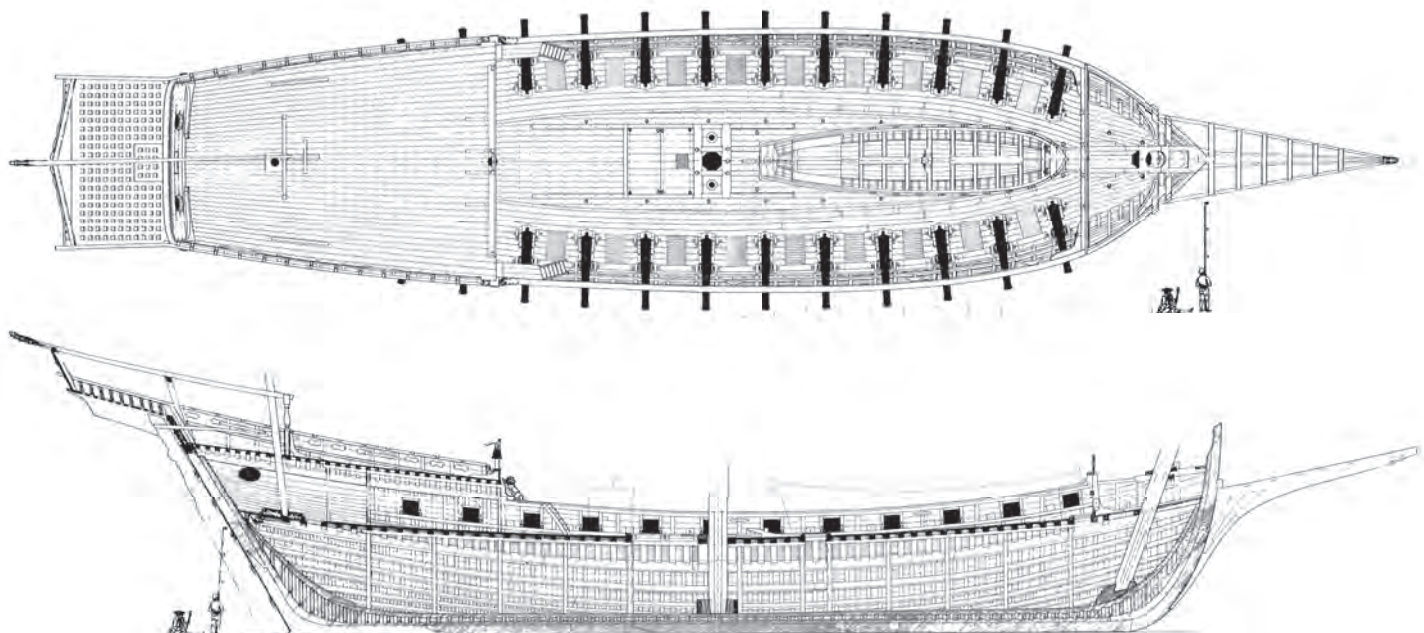
- 22 plates at 1:48th scale showing details of the timber works, the rigging and fitting with an illustration of all the frames and full details of the prow and stern formations at 1:48th scale.
- A plate at 1:72th scale which may be used for building the model at this scale.



MODEL RIGGED			HULL		
Lenght	Width	Height	Lenght	Width	Height
124	26	82	110	23	24

cm.

Extracts from the plans





SALAMANDRE

The bomb ketch

1758

MONOGRAPH

Including all timbers plans (1/48th) and interior accomodations of the ship.

Jean BOUDRIOT
Hubert BERTI

Bomb ketchs were invented by the French in the 1660s in order to bombard port towns on the Barbary coast more efficiently.

Despite our thorough research, we were unable to find enough documents to present you with a ship's model from this period with our usual rigour. But we did gather some exceptional historical and technical documents on the 1752 *Salamandre*.

The monograph on *La Salamandre* gives a detailed description of the timbers and interior accomodations of the ship. In fact, our patient search resulted in the discovery of the personal archives of the *Salamandre*'s Captain,

Lieutenant Perrot du Bourget.

We were therefore able to match official documents with the observations and very pertinent remarks of this vessel's own captain.

Such documentation is unique. With it we were able to improve upon our usual presentation by including multiplying drawings so that ship's model builders could construct the ship's framework with the utmost precision. The basic structure is of particular interest because of the installation of two very large sea-mortars.

The numerous models of the *Salamandre* that our readers have shown us attest to the fact that by reading this monograph they were able to build excellent models and occasionally a masterpiece.

COMPOSITION OF THE MONOGRAPH

<p>A 138 page brochure, 24x31 cm format, including:</p>	- The history of bomb ketch in the French style, and the history of other sea-mortars holders.	- The Bombardments of the Moroccan ports of Sale and Larrache.
	- The description of the French bomber galiot and its use.	- Detailed commentaries giving extensive explanations of the thirty four plates at 1:48 th scale.
	- <i>La Salamandre</i> 1752-1791 - a detailed report of the 1765 campaign.	- Commentaries on thirty-one photos of the model of a bomb ketch of the period, 1:18 th scale.
		- Complete nomenclature of fittings and rigging.

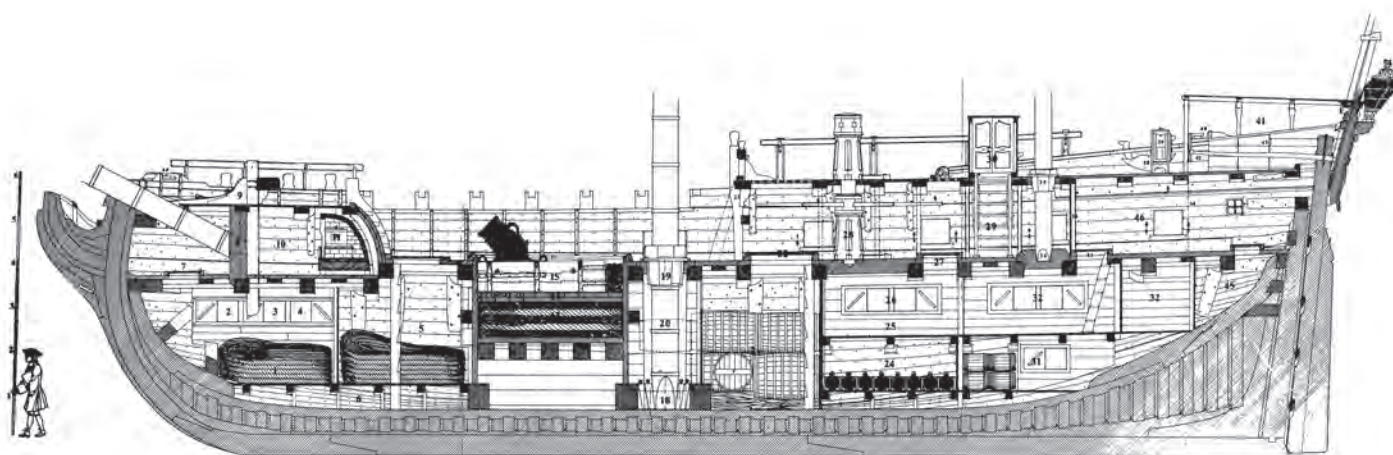
COMPOSITION OF THE PLATES

<p>A 38-plate set including</p>	- 1 color plate giving the color scheme of the period	
	- 3 plates with detailed commentaries on the blocks	
	- 34 plates at 1:48 th scale representing :	
	- Details of the timbers, with all the frames and details of the head and stern structures at 1:48 th scale.	
	- Details of the fittings	
	- Details of the rigging.	

RIGGED MODEL			HULL ALONE		
Length	Width	Height	Length	Width	Height
90	20	120	62	20	20

Centimeters

Extracts from the plans





BONHOMME RICHARD

Pirate ship
A 1/48 SCALE MONOGRAPH

Set of 26 plates at 1:48 scale

Jean BOUDRIOT

This book deals with a vessel belonging to the early navy of the United States of America. The ship won fame during the American Revolutionary War under the command of the famous captain John Paul Jones. A former East India Company 900-ton ship, it was repurchased by Louis XVI in order for John Paul Jones to take its command.

Le *Bonhomme Richard* (whose name is an homage to Benjamin Franklin 's Poor Richard's Almanack) headed up a division in a very bold privateer campaign on the English coasts. This campaign ended in a violent and spectacular fight against the English vessel *Serapis* and its capture in September 1779.

The goal of this monograph is a reconstruction of Le *Bonhomme Richard* in its most genuine form. Jean Boudriot was the only person capable of doing so, with his intricate knowledge of the East India Company's navy. He presents here a vessel built in France but sailing under the Stars and Stripes, thus furthering our knowledge of the French navy at the time of the American Revolutionary War.

COMPOSITION OF THE MONOGRAPH

A 64-page brochure, 24x31cm format, including:

- John Paul Jones, US NAVY vessel captain
- The battle of Cape Flaniborough
- Remarks on reconstructing Le *Bonhomme Richard*
- Commentaries on the plates
- Rigging rules
- Guns
- Note on metal works
- Marks and flags, paint
- Presentations of models
- The designs are intended to facilitate construction of the framework.

COMPOSITION OF THE PLATES

Set of 26 plates at 1:48th scale (except plates 24, 25 and 26 at 1:64th scale) including:

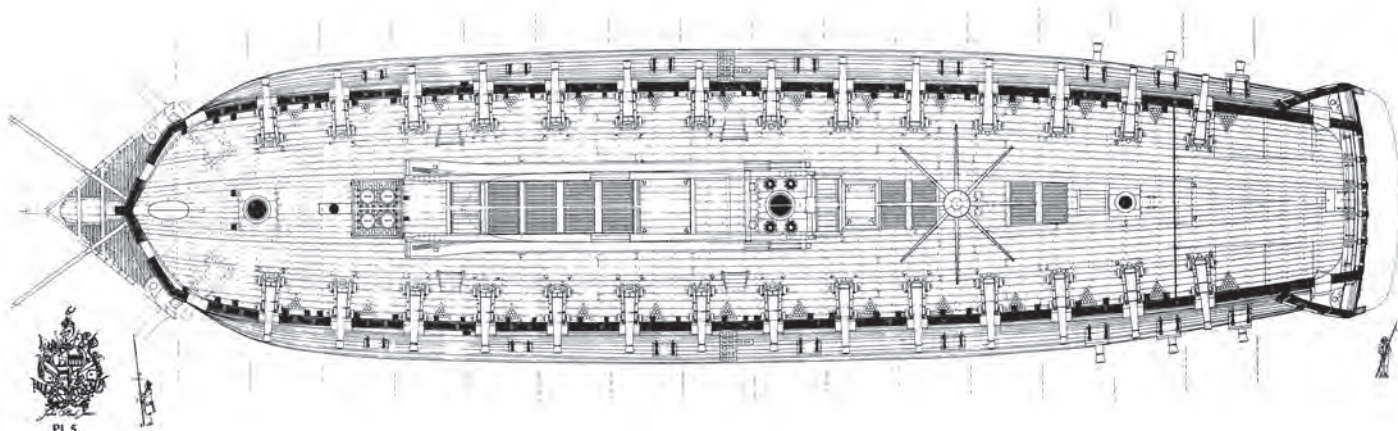
- Frame, waterlines, sections
- Wooded frame; structure
- Layout of the structure of the hull, drawing of all frames at 1:48th scale
- Design of decks
- Cross and longitudinal sections
- Ship's boat, anchors, guns
- Fittings
- Masts and spars, rigging, sails
- Definition of the hull at 1:64th scale



RIGGED MODEL			HULL ALONE		
Length	Width	Height	Length	Width	Height
110	62	87	86	22	24

Centimeters

Extracts from the plans



Pl. 5



LE CERF

Cotre

1779 - 1780

A 1/48 SCALE
MONOGRAPH

Build by Denys

Jean BOUDRIOT
Hubert BERTI

The renewal of the French Navy after the Seven Years' War was responsible for the commission of many new naval constructions, in particular, the building of a series of large cutters, begun in 1779, some measuring 75 feet in length, bearing 14 guns and others measuring 81 feet in length, armed with 18 6-pdr guns. As the prototype of this model, we have chosen *Le Cerf* which was built at Saint Malo according to the shipbuilder Denys's plans and launched on 2 March 1779.

Command of the ship was confided to ship's ensign Varages who sailed the Brittany coast and engaged in the ship's first active combat with two English cutters on 21 June of the same year. After repairs were completed, the *Cerf* resumed sailing but was struck by lightning on 17 July. We have a detailed account of this fortunately rare occurrence.

After putting in at Lorient, the *Cerf* was put under the command of John Paul Jones, Captain of the U.S. Navy, as part of a division sailing under the American flag - including *Le Bonhomme Richard*, *La Pallas*, *L'Alliance* and *La Vengeance* - that cruised the British coastline.

On 23 August off the Irish coast, the *Cerf* is enlisted to search for the long boat of the *Bonhomme Richard* carrying seven deserters. Foul weather interrupts the search and the disabled *Cerf* abandons its mission.

In his vivid and detailed reports up to February 1780, Varages fully represents the role of a ship of lighter tonnage which was essential to a great military navy for bearing dispatches, as well as for protecting the coastline, coasting vessels and fishing fleets.

COMPOSITION OF THE MONOGRAPH

A 138 page
brochure,
24x31 cm
format,
including:

- Evolution of the brigantine from the Bermuda-rigged sloop to the cutter
- History of the cutter in the French Royal Navy
- List of 27 cutter-rigged ships appearing in the lists of the French navy 1756-1781.
- Commentary and analysis of 14 photographs of models of cutters in the collection of the Musée de la Marine.
- History of the campaigns of the cutter *Le Cerf*.
- Detailed commentary with all necessary information on the 11 plates with the drawings of details.
- Full glossary of superstructure and rigging terms.

LISTS OF PLATES at 1/48th

A set of 11
plates on
cartographer's
paper at 1:48th
scale including:

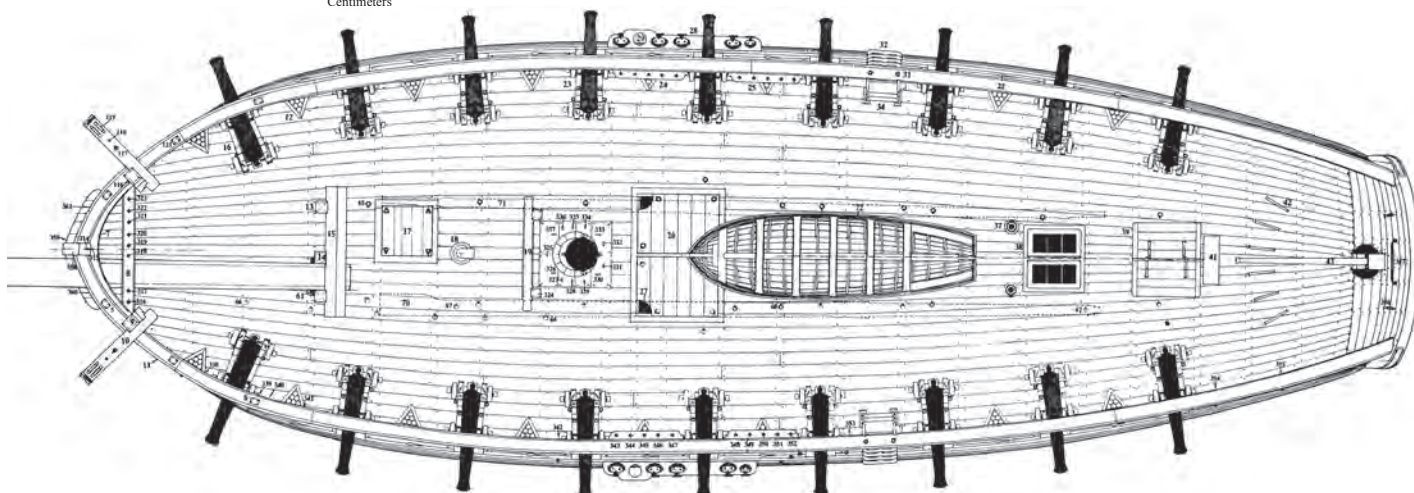
- 1 Definition of the hull, longitudinal drawings, vertical sections of the ribs
- 2 Definition of the hull, drawings of the planking.
- 3 Plan of the deck and profile of the midship frame.
- 4 View of the hull, long. section, front view.
- 5 Plan of the fitted-out deck, rear view.
- 6 Cross-sections
- 7-8 Fitting
- 9 Mastig elements, mast yards rigging.
- 10 Square sails
- 11 General view of the fore-and-aft sails.



RIGGED MODEL			HULL ALONE		
Length	Width	Height	Length	Width	Height
90	20	120	62	20	20

Centimeters

Extracts from the plans





VÉNUM

18 GUNSHOT FRIGATE

1782

of SANÉ engineer

A 1/72th Monograph

Jean BOUDRIOT
Hubert BERTI

The frigate *La Vénus*, referred to as an 18-pdr because of the caliber of her main artillery, was conceived and designed by the engineer Sané and built in Brest in 1782. It is one of the prototypes of the 143 similar frigates which were to be built in every port of France and continental Europe from 1780 to the end of the French Empire. Often imitated by the British, Sané's 18-pdr frigates enjoyed remarkable success during their lengthy career. The last ones, built at the end of the Empire (1813) were not dropped from the lists until about 1850.

The French archives abound in accounts of the valorous actions led by Sané's frigates. Other episodes, like the story of the *Médusé* whose wreck was found on the banks of the Arguin are less commandable.

The documentation we offer here brings the *Vénus* to life. Further research, which was facilitated by documents in French and British archives, as well as archives in the many other countries occupied by the French Empire, enables the construction of the *Vénus* and other frigates of the same type with a particular decoration or distinguished military career. The *Vénus* herself had a non-combative and humanitarian career. Her captain, de Rossily, the former commander of the lugger *Le Coureur* at the time of the famous battle of *La Belle Poule*, sailed her on a voyage of discovery in the Red Sea, the Persian Gulf, and the Indian Ocean before her complete disappearance during a hurricane with all crew and cargo, on 31 December 1788 after having set sail from Saint Paul de la Réunion.

COMPOSITION OF THE MONOGRAPH

75 p. booklet,
24x31cm
format,
including:

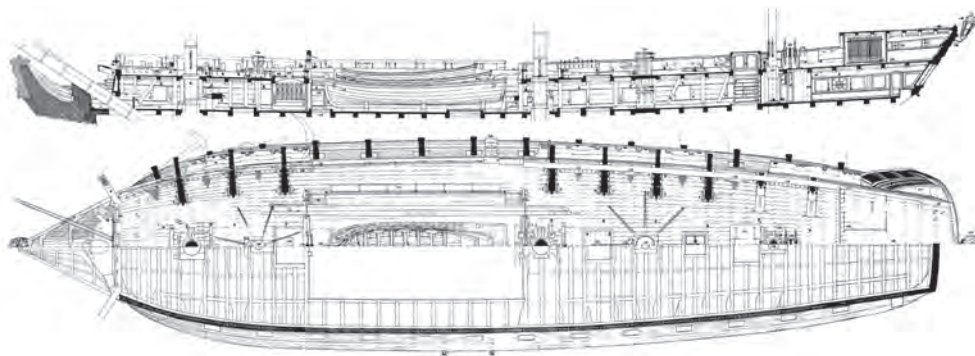
- I The history of frigates in the French navy
- II Analysis of the results of research which enabled the writing of the monograph
- III Commentary and analysis of 13 photographs of ship's models in the Musée de la Marine in Paris, two paintings by François Roux and two plates from the *Atlas du génie maritime* (The Atlas of Naval Genius)
- IV History of the campaign of the *Vénus* in the Indian Ocean from 1785 to 1788
- V Detailed commentary with all necessary information on the 13 plates at 1:72th scale, with several drawings of details of fitting at 1:36th scale
- VI Complete vocabulary of fitting and rigging.

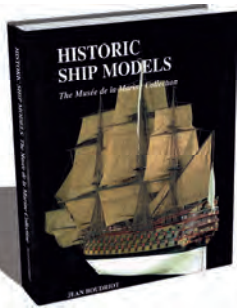
LISTS OF PLATES

A set of 13
plates at 1:72th
scale
including:

- I Shape of the hull, longitudinal plans
- II Shape of the hull, cross-cut plans, front and rear views of the frigate, cross-sections
- III Planking of the hull
- IV Construction of the head, and the quatergaleries in the stern.
- V Plan of the ship's battery and a partial longitudinal section.
- VI Plan of the forecastle and partial longitudinal section.
- VII Fitting and details
- VIII Elements of the masting
- IX Elements of rigging for masts and various pieces of fitting
- X Longitudinal sails and standing rigging
- XI Installing the square sails of the foremast and mainmast, issue of rigging on the outside of the hull
- XII Installing the square sails of the mizzenmast, issue of rigging on the deck.

Extracts from the plans and photos





HISTORIC SHIP'S MODELS

in the "Musée de la Marine".

The book has 288 pages on the collections of the Museum of the Navy.

359 color photographs.
commented by Jean Boudriot

The collections of the Musée de la Marine possess an extraordinary number of ship's models of exceptional quality and interest. Only those models deemed to be representative of the apogee of the French sailing ship were selected for this publication. Without doubt more examples could have been chosen, but their publication would have required two volumes instead of one.

We are proud to present this deluxe volume and hope that it will stimulate a further acquaintance with the "French Naval Archeology Collection". This new book addresses itself to

specialists, be they ship's model builders or not, as well as to amateurs who will be enchanted by the beauty of the models. The combination of beautiful illustrations and an intriguing text make this an incomparable work. Superior quality photography allows the viewer to scrutinize the models more closely than if he or she were standing before the piece itself in its museum case.

Our concern has also been to preserve this collection of photographs for future viewers as well as to expand its audience. These models constitute an exceptional body of documentation that is now safe from harm's way.

The models are an evocative reminder of the sailing ships of yesteryear. Moreover they provide a storehouse of information not readily available from archival or printed sources. Recognizably an important element of our cultural heritage, they must be valued as such. We hope that readers will appreciate the caliber of the models as they discover the richness of the collections in the celebrated Musée de la Marine in Paris.

TABLES OF CONTENTS

LE REQUIN Xebec	24 guns - 1750 (22 photos)	LA FLORE	18-pdr frigate - 1804 (25 photos)
74- GUN SHIP	1755 (33 photos)	LA CRÉOLE	24-gun sloop-of-war - 1827 (25 photos)
LE SANS PAREIL	110 guns - 1757 (42 photos)	L'ESPÉRANCE	16- gun brig - 1810 (30 photos)
L'ARTÉSIEN	64 gun ship- 1762 (29 photos)	LE COTRE	16- gun cutter - 1811 (16 photos)
L'OCÉAN Three-decker	(118 guns) - 1786 (14 photos)	LA LIONNE	380 tx transport-ship - 1811 (16 photos)
LE TRIOMPHANT	74-gun ship - 1804 (18 photos)	LA FOUDROYANTE	1803 - (15 photos)
LE FRIEDLAND	80- gun ship - 1807 (16 photos)		
LE RIVOLI	74 gun ship - 1807 (29 photos)		

Extracts from the book

L'Artésien



The entering-ladder is formed by moulded cleats serving as steps. Two iron pillars support rope hand-rails called side-rope; the knots make them easier to use. As we have seen, the 24-pdr guns on the lower deck and the 12-pdrs on the upper deck are not original. Careful examination reveals the gouges in the lower port-sills of the gundeck ports and the rebates for the upper deck lids and half-lids. The cross-nailing of the inner face of the lids has been shown, as have the two ringbolts used to close them by means of a handspike lashed across with a few turns of rope. The pumps discharge onto the upper deck; note the rectangular scuppers. Note also the lower double-block of the winding-tackle hooked in the ship's side and the lower single-block of the main-tackle hooked to an eyebolt in the channels and strengthened below by a bracket. As a rule, it is the winding-tackle which is hooked here, between the 1st and 2nd shrouds, while the main-tackle is further aft, between the last pair of shrouds. The fourfold fixed-block bolted to the planksheer takes the fore-sheet and preventer-brace, the fore studdingsail tack and sometimes the fore-topmast studdingsail tack. Note also the plank forming the breastrail supported by forked iron pillars and the preventer-plates of the chains made of strip- rather than bar-iron.

Close-up of the companion. The banister-rail of the officers' staircase is supported by balusters. The tell-tale or axiometer of the helm is clearly visible. Against the fore bulkhead of the companion, the bench for the watchkeeping officers once stood, as evidenced by the small cleats nailed to the deck to secure its legs. In the background can be seen a 6-pdr gun with a shot-rack to the left of it and a large range-clear used to lead the mainsheet.

The poop breastwork is equally sober. In front of it can be seen the companion of the officers' staircase, while behind the axiometer to the left of the picture can be seen the foremost cabin on the starboard side and the ladder providing access to the quarterdeck. Note the fine attention to detail in the joiner's work, giving the appearance of raised panels and beads. Shroud-cleats are visible in the shrouds, and one can also see the main topsail-yard jeer-tackle.



A fluke of lighting illuminates the wheel, delicately finished in ivory. The spindle of the drum is supported by two pillars. Afore the mizzen-mast there is a unique example of an axiometer in the form of a cursor sliding between two rails; the cursor is moved by a thin rope (the "spurling-line"), wound round an extension of the spindle of the wheel; the two legs of the line lead to blocks, thereby causing the cursor to display visually the position of the rudder (see 74-G.S., vol. III, p. 216). A treble-sheaved fixed-block is bolted to the planksheer forward of the hance of the upper drift. These sheaves take the mainsheet in heavy weather, and the tacks of the lower main studdingsail and the main-topmast studdingsail.



L'Espérance



The same general comments apply here to the maintop as made on the previous page for the foretop. Note the two double-blocks below the point of the crow's-foot, for the foreyard and fore topsail-yard braces.



Another view of the foretop; as you can see, there are no jeer blocks for the lower yard, these being rigged only when required. All the lower yards have English-style trusses. The crow's-foot and the mouses of the stays were abandoned in the 1820s.



Close-up of the main topsail-yard parrel.





THE FRIGATES

French Marine

1650-1850

Contents of the Historical Study of Frigates

Jean Boudriot
Hubert Berti

This book is devoted to the history of a ship whose very name evokes deep historical resonances, the *frigate*. The reader follows the evolution of *frigates* in the French navy from their origin in the 1660s to the mid-19th century when the sailing wood military navy reached an end. The evolution of frigates may be divided into two phases. The first phase is characterized by the use of small two-decker vessels and of modest ships called *light frigates*. This period ended around 1750 when small vessels were no longer used, to the “benefit” of the *frigate*. No longer qualified as “light”, *frigates* then gained characteristics and qualities that were to transform them into “modern frigates”, with guns and

dimensions that increased constantly in this second phase.

This historical study begins with a general orientation presenting an overview of subsequent chapters. Each chapter deals with a *specific class of frigates*, characterized by the caliber of their guns. Each chapter opens with a text that historically and technically locates the main characteristics of the class of frigate presented in the chapter. Guided by this over arching presentation, the reader can then proceed easily through the various plans, diagrams, tables, commentaries and notes relating to the study of each class.

The following chapter gathers general and comparative data whose collective elements give an overall evaluation of previous chapters, thanks to numerous sketches, graphs and tables which sometimes analyze frigates in relation to other vessels. The chapter ends with a recapitulation that summarizes the designation and main characteristics of 600 frigates in the French Navy.

The following chapter deals with all aspects of the evolution of frigates: accommodations, guns, decorations, masts and spars, sails, etc. over two centuries.

The final chapter gathers nearly 70 photos of ship models belonging to the collections of the Musée de la Marine.

The original period documents reproduced and gathered in this book constitute a corpus that is without equal. This study is unprecedented in the history of French naval architecture.

Illustrations are abundant, with 106 plans of ships, 92 reproductions of documents of the time, 68 photos and 48 statements, numerical tables, graphs and indexes. In short, this book is a genuine *encyclopedia of frigates*.

CONTENTS OF THE HISTORICAL STUDY OF FRIGATES

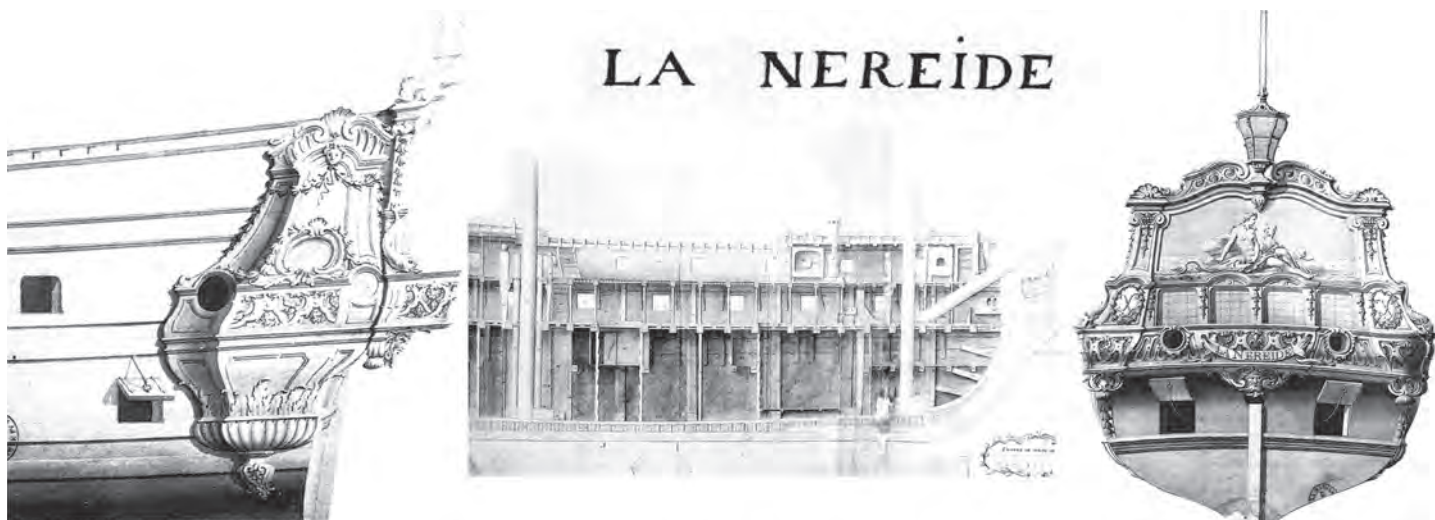
Large volume 24 x 31cm format, full grey-blue cloth binding, sewn with headband. Inside cover with a four-color reproduction of the frigate *La Pomone* by F. Roux. 350 pages, 115 g paper with an inset plate replica of the inside cover.

Contents :
Foreword
General remarks
Chap. I - The Frigate-Vessels, 1640-1756
II - The Light Frigates, 1659-1744
III - The 8-pdr Frigates, 1740-1774
IV - The 12-pdr Frigates, 1748-1798
V - The 18-pdr Frigates, 1781-1813
VI - The 24-pdr Frigates, 1772-1843
VII - The 30-pdr Frigates, 1805-1846
VIII - Comparative and General Data
IX - Aspects of Development
Collection of photographs of ship models.



The Frigate
La Belle Poule
Modèle:
B. Frölich
Paris

Extracts from the pages





GROS VENTRE

Gabare

1766 - 1779

34 plates at 1:48th scale

Gerard DELACROIX

This monograph presents the gabare; a transport vessel used by the Navy to supply the dockyards, squadrons at sea and the colonies. The first gabares appeared around 1715. They were used for the transport of masting and framing timbers. Originally small vessels of 40 to 130 tons, their size will increase; up to 480 tons by the beginning of the 19th century and these vessels were fitted and laid out according to their use as they had diverse functions.

Fortuitously a gabare will participate in the Kerguelen expedition in 1772. She was adequately named *Le Gros Ventre*. She will eventually be abandoned by

Kerguelen and sailing alone under the command of M. de St Allouarn, she will discover the west coast of Australia in March of 1772. The ownership of this land was written in the name of the King, placed in glass bottles and buried at the location of this landing. In 1998, the bottles were unearthed, which provoked great interest for *Le Gros Ventre* and her commander M. de St Allouarn. This would be a determining factor in the choice of this gabare as a subject since her draughts are preserved in Vincennes at the Service Historique de la Marine.

In consequence of the excellent work by Gerard Delacroix, the French Naval Archeology Collection is greatly enriched with this monograph; an original work treating of this type of vessel.

COMPOSITION OF THE MONOGRAPH

132 page book
24 x 31 cm
format
including
forewords by
Jean Boudriot

The gabares

- Presentation of the vessels.
- The gabares at sea and their comportment.
- The reconstitution of *Le Gros Ventre*.
- The Main sources.
- Reconstitution of the draughts.
- The voyage of *Le Gros Ventre*
- The Kerguelen Islands
- Transcript of the logs kept by M. Boigueheneuc and M. de Rosily.
- The west coast of Australia, the "Baie des Chiens Marins" in Nouvelle Holland, on March 30, 1772.
- The fitting of the gabares as exploration vessels: Commentary of 7 draughts by M. d'Auribeau for the gabare "*La Recherche*", expedition of d'Entrecasteaux in 1791.

Le Gros Ventre monograph

- Commentary on the 34 plates.
- Note about the orlop deck.
- The water hold and barrels.
- Metal work.
- The rigging of *Le Gros Ventre*.
- Contracts for the timbers
- Paint - colours for *Le Gros Ventre*.
- Photos of the model by Vincent Davenas, 29 photos captioned by Gerard Delacroix.



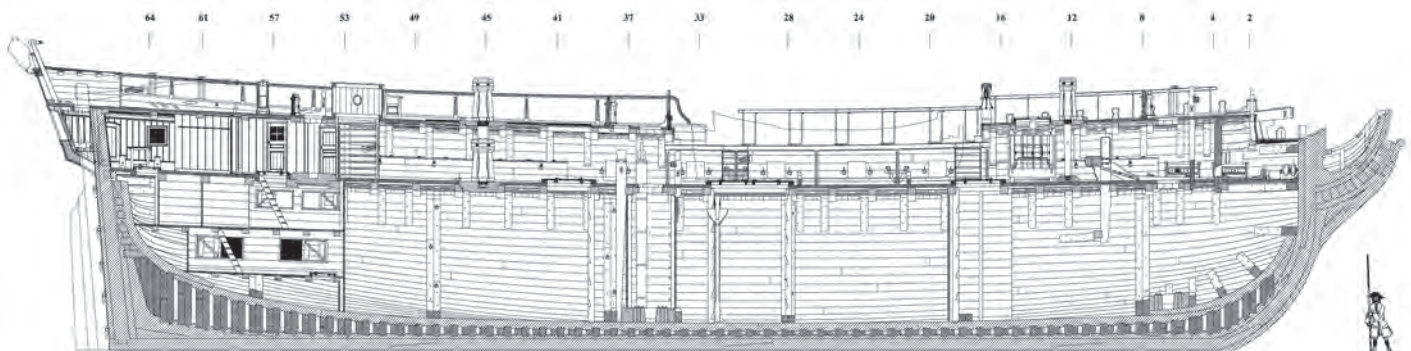
THE LIST OF THE 1:48th SCALE PLATES; including all the framing timbers

1	Defining the hull.	13	The deck plan.	24	Top view.
2	Vertical sections.	14	Forecastle and quarter deck.	25	Great view: with all the arrangements.
3	Hull horizontal sections.	15	Longitudinal framing section.	26	Front and stern views.
4	Axial timbering.	16	Construction of the head	27	Masts and yards.
5 · 6 · 7	The frames and riders	17	Stern and quarter gallery.	28	Mast fittings.
8	Stern framing.	18 · 19	Fittings	29	Blocks.
9	Framing the front.	20	Layout of the hold.	30 · 31	Sails
10	Framing.	21	Layout of the deck fittings.	32	Belaying points.
11	The transversal sections.	22	Forecastle and quarterdeck layout.	33	Standing rigging and longitudinal sails.
12	Plan of the hold.	23	Longitudinal layout.	34	<i>Le Gros Ventre</i> under sails

MODÈLE GRÉE			COQUE SEULE		
Longueur	Largeur	Hauteur	Longueur	Largeur	Hauteur
110	42	78	88	17	21

Mesures en cm.

Extracts from the plans



THE 74 GUN SHIP

1780

Studying naval archeology

**Ancre - Jean Boudriot,
Hubert Berti - French
Naval Archeology Collection**

This 4 volume set is the starting point of our collection and as such is almost essential to the understanding of all our other books. It gives the definitions of all parts of a ship, “from keel to mast’s truck”, illustrated with many detailed drawings. It also explains how to manoeuvre and operate a ship, and what shipboard life was like. In order to avoid unnecessary repetitions, these explanations and definitions are not given in our other publications, in which you will find numerous cross-references to “The 74 Gun Ship”.

The Method: while the shape of things to come is not set at the beginning of the book, principles are well established there. Boudriot started with primary sources by systematically studying models in the arsenals and by doing daily archival research in every

harbour in France. He neglected nothing: neither the theoretical contributions brought by such authors as Duhamel du Monceau, Romme, Bouguer or Vial du Clairbois, nor the valuable iconographic documents provided by such draughtsmen as Puget, Ozanne, Vernet, Guérout du Pas and Sponsky de Passebon, etc. But the practical drawing booknotes of anonymous engineers, the more modest wood estimates by master carpenters or the inventories of a warehouse were even more important. Only the irrefutable document is to be taken into account: engineers’ plans, construction, equipping and campaigning estimates; correspondence and manuscripts of the time.

Because of his talent as a draughtman and because of his architect’s training, Jean Boudriot is convinced that naval archeology - because it is a restitution of the past - can only be approached through drawing, the only true means of expression and understanding it. His rigorous and magical lines, with their lively and familiar style, immerse the reader in the atmosphere of the 17th, 18th and 19th ports and ship building sites throughout his numerous books.

The Ship: as the main naval war machine at the end of the 18th century, the 74 Gun Ship was the result of a compromise, like every successful vessel. Her balance between strong guns and manoeuvrability offered by the 28 gun lower gundeck and firing 36 pound cannon-balls, made the “74” the perfect ship of the line. Since she moved more easily, she was much more useful in combat than the heavy 100 gun three-decker. Her hull alone represented half of 3.000 tons moving, 2.800 hundred-year-old oak trees (a whole forest), and 600 tons of iron and wood bolts were needed for her construction. The hold and its orlop-deck could contain victuals for 6 months and water for 12 weeks. The gundeck had to bear the considerable weight of enormous 36-pdr guns, weighing 4 tons each. The upper deck, covered front and back with castles, carried lighter guns. This hull rose 7 meters above water and carried prodigious flights of sails. Each of the three masts, in three elements, rigged three floors of square sails and the main top-mast truck towered at 60 meters. This ship was well designed by her engineer and when correctly used by her crew, she performed superbly at sea in all weathers. In a fair breeze, she could exceed ten knots by sailing quartering.

THE COMPOSITION OF THE BOOKS

BOOK 1

- I ADMINISTRATION OF THE PORTS AND DOCKYARDS:
 - 1. General organisation - 2. Surveyors - 3. Summary table
- II THE WORK OF THE SURVEYORS:
 - 1. Qualities demanded of a warship - 2. Study of the hull shapes
 - 3. Ships’ draughts - 4. Calculations - 5. Specification
- III THE WORK OF THE SHIPWRIGHTS:
 - 1. Moulding in the loft - 2. Marking out and fashioning in the yard
- IV MATERIALS: 1. Timber - 2. Hemp - 3. Metals
- 4. Others materials
- V DOCKYARD INSTALLATIONS: 1. Slipway and keel blocks - 2. Raising and horning of the timbers - 3. Launching

BOOK 2

- VI HULL TIMBERS: 1. Keel and stem timbers - 2. The station frames - 3. Stern-frames 4. Filling timbers - 5. Reinforcement and planking of the hold - 6. Construction of the decks - 7. Internal planking above the hold - 8. Description of other inboard works
- 9. External planking of the hull
- VII FASTENING - CAULKING: 1. Nails, fastening - 2. Nailing, fixing of bold - 3. Oakum, pitch
- TABLES, ETC
- VIII HULL FITTING: 1. The bow - 2. The ship’s sides - 3. The stern
- IX INTERNAL ARRANGEMENTS: 1. The hold and orlop - 2. The gundeck - 3. The upper deck - 4. The forecastle, quarterdeck and poop - 5. The officers’ quarters - 6. Paintwork
- X BALLAST AND STOWAGE: 1. Ballast - 2. Stowage - 3. Victuals
- XI WARRANT-OFFICERS’ STORES: 1. The Bo’sun - 2. The Cook and the Baker - 3. The Master - 4. The Carpenter - 5. The Caulker - 6. The Gunner - 7. The Master-at-Arms and the Armourer - 8. The ship’s boats - 9. The Chaplain - 10. The Surgeon - 11. The midshipmen
- SUNDRY ITEMS OF STORES

BOOK 3

- II MASTING: 1. General considerations - 2. Type of timber and mast-making - 3. Standing masts - 4. Others spars and spares
- 5. Mast furniture.

- XIII SAILS: 1. Sailcloth and sailmaking - 2. List of the sails and their proportions.
- XIV RIGGING: 1. Ropemaking and related skills - 2. Blocks and block-making - 3. Standing rigging - 4. Running rigging - yards
- 5. Running rigging - sails - 6. Anchors cables and related ropes
- 7. Rigging of the ship’s boats
- XV MAINTENANCE
- GENERAL NOTIONS REGARDING SHIPS OF WAR
- NAVY LIST 1780
- COST OF BUILDING A 74
- OTHER NAVAL VESSELS

BOOK 4

- XVI THE CREW: 1. Officers - Volunteers - Midshipmen - 2. The men - 3. The Marines - 4. Supernumeraries
- XVII OFFICERS AND CREW AT WORK: 1. Functions - Responsibilities - 2. Watch-bill, Quater-bill, messing 3. Policing - Discipline - 4. Seamanship - 5. Fighting drill
- XVIII LIFE ON BOARD: 1. Clothing - Berthing - Other details
- 2. Religious observance - 3. Victuals - 4. Health and health care
- XIX SHIPHANDLING: 1. The ship in harbour
- 2. Anchored in the roads - 3. Shiphandling at sea
- XX NAVAL EVOLUTIONS AND OPERATIONS:
 - 1. Single ship evolutions - 2. Fleet operations
- XXI NAVIGATION, COLOURS AND SIGNALS: 1. Navigation instruments - 2. Navigation - 3. Flags, colours and signals
- SUPPLÉMENT
- VOCABULARY



ABOUT THE AUTHOR



Jean BOUDRIOT is an exceptional Frenchman. Originally an architect, he is an outstanding draughtsman and in only a few years' time became the first specialist in 17th and 18th century naval architecture. He was first interested in the study of French statutory arms, on which he published four books that were accepted as authorities. In 1960, he moved on to studying naval archeology.

J. Boudriot's first studies on naval guns, published in 1969 in Neptunia, are true revelations for amateurs. Between 1973 and 1977, he published

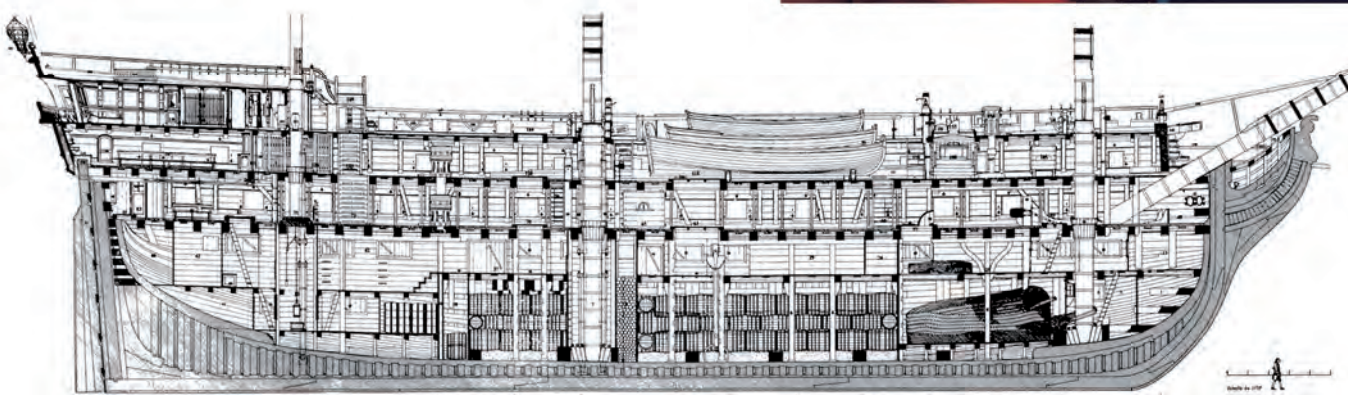
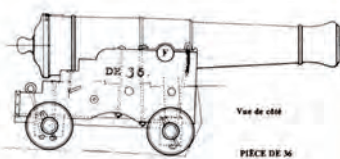
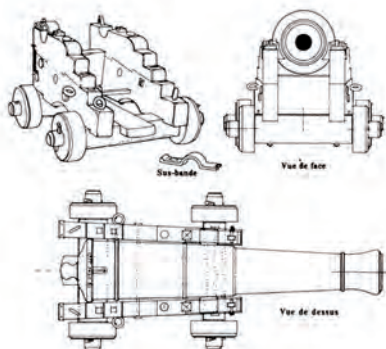
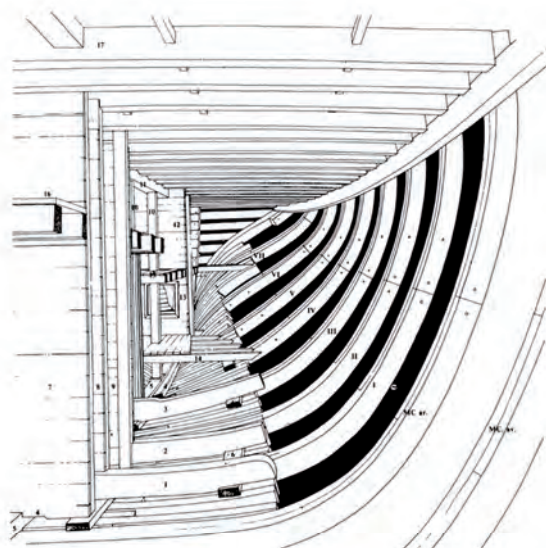
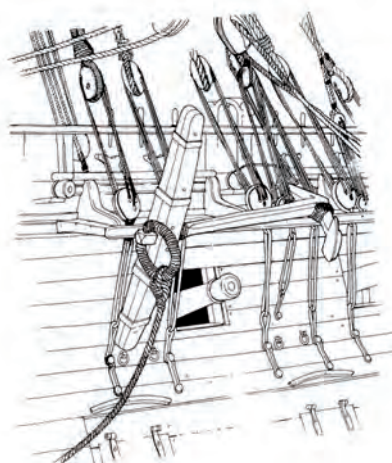
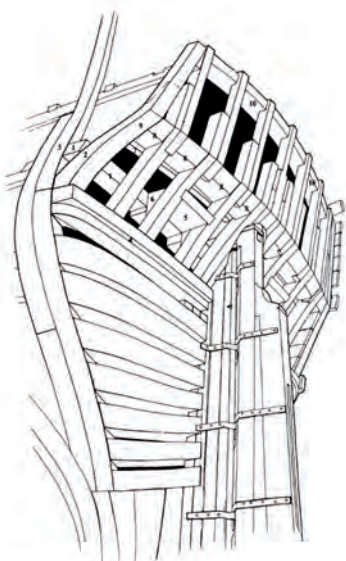
the four volumes of "*The 74 Gun Ship*" thus creating the Boudriot myth. Since then, he has dedicated his time to scouring the archives in Paris in winter, and to drawing in Charente in summer. For our utmost pleasure, Jean Boudriot regularly publishes the monographs and historical studies that constitute the French Naval Archeology Collection.

Boudriot is both an author and a publisher. He also teaches the weekly naval archeology seminar that takes place in the Musée de la Marine, and gives numerous lectures, most of them in the Sorbonne. He is a talented speaker and hearing him speak on his topic is an enchanting event.

RIGGED MODEL			HULL ALONE		
Length	Width	Height	Length	Width	Height
90	20	120	62	20	20

Centimeters

Extracts from the plates and photos





18th SHIP BUILDING

1737

Remarks on the Navies of the English and the Dutch

Blaise Ollivier
David H. Roberts

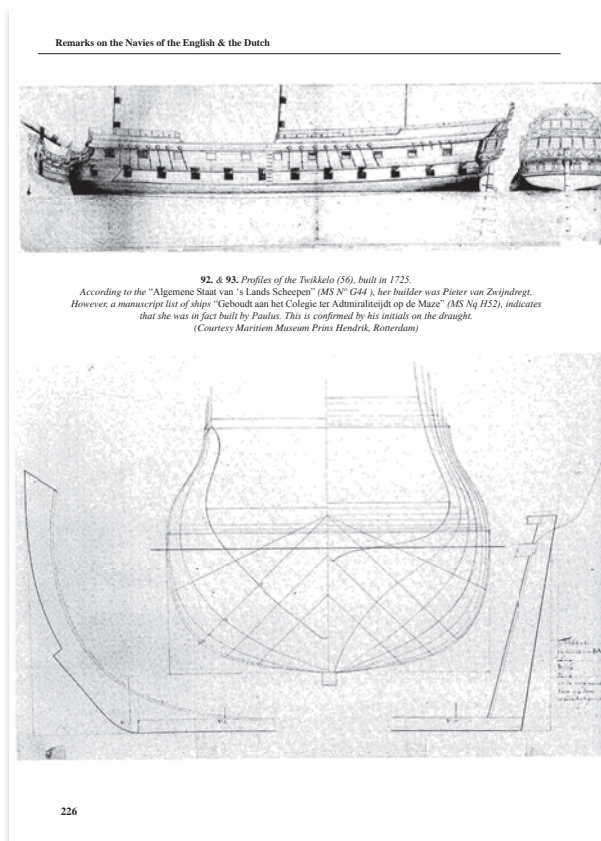
The book contains the full text of the "Remarks" in both the original French and in translation, fully annotated and with a lengthy explanatory introduction. It is lavishly illustrated with nearly 100 contemporary engravings, plans, ship draughts and other iconographic material.

TABLE OF CONTENTS

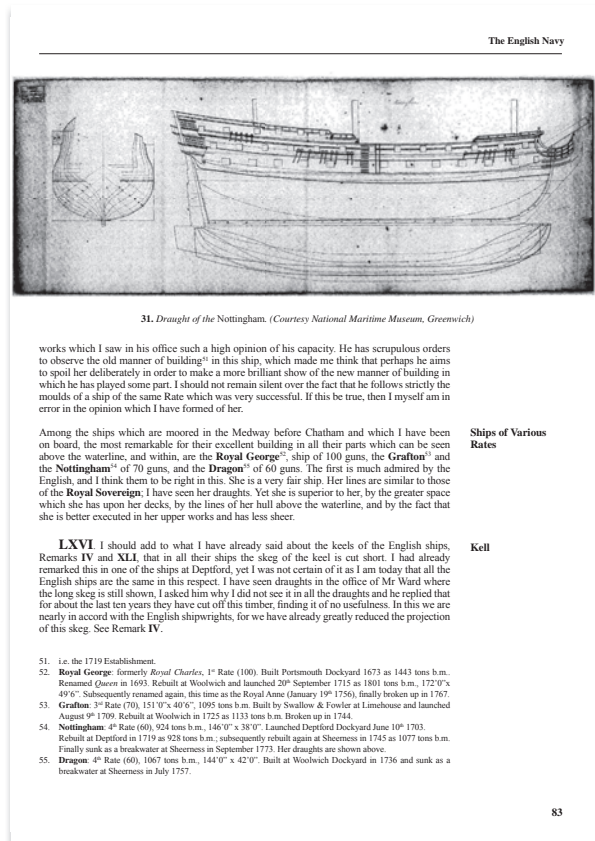
24 x 31cm format, full green cloth binding, sewn section with headband.
380 pages, 135 gr paper, with nearly 100 illustrations and iconographic material.

<p>I Introduction Preamble Source of the manuscript The Translation Explanations regarding the Notes Historical Background Published writings on shipbuilding The Originality of the Remarques Blaise-Joseph Ollivier: a Biography Blaise Ollivier as a Civil Engineer "Espionage" Blaise Ollivier's Mission, and its Impact on French Shipbuilding The Rebuilding of Ships in the English Navy The Establishments</p>	<p>II Remarks on the English Navy Deptford Dockyard Timbers, scantlings and shipbuilding methods Woolwich Dockyard Timbers, scantlings and shipbuilding methods Chatham Dockyard Timbers, scantlings and shipbuilding methods Dockyard installations Dry-docks Method of Floating Ships into the Docks Portsmouth Dockyard Dimensions of Ships Moulds of the Fore Body and Afterbody Timbers, scantlings and shipbuilding methods Repairs and Breaking Ladron Sheerness Dockyard The new Manner of Building of the English English Books on Shipbuilding Plymouth Dockyard</p>	<p>V Remarks on the Dutch Navy Amsterdam Dockyard Rotterdam Dockyard Flushing Dockyard Veere Dockyard Hellevretsluijs Dockyard Dimensions of ships Timbers, scantlings and shipbuilding methods Divers practices of the Dutch Repairs and graving Masts & Rigging Timber</p>
	<p>III List of English ships in 1737</p>	<p>VI Remarques sur la Marine des Anglois & des Hollandois (French text)</p>
	<p>IV Table of Subjects Contained in the Remarks on the English Navy (by Ollivier)</p>	<p>Appendix I: List of Dutch Ships in 1737 Appendix II: Bibliography and Sources Appendix III: Glossary of Shipbuilding Terms, by Blaise Ollivier</p>

Extracts from the pages



92. & 93. Profiles of the Twikkelo (56), built in 1725.
According to the "Algemene Staat van 's Lands Scheepen" (MS N° 644) her builder was Pieter van Zwijndregt.
However, a manuscript list of ships "Gebouwt aan het Colegio ter Admiraliteit op de Maze" (MS Nq H52), indicates that she was in fact built by Paulus. This is confirmed by his initials on the draught.
(Courtesy Maritiem Museum Prins Hendrik, Rotterdam)



31. Draught of the Nottingham. (Courtesy National Maritime Museum, Greenwich)

works which I saw in his office such a high opinion of his capacity. He has scrupulous orders to observe the old manner of building⁵¹ in this ship, which made me think that perhaps he aims to spoil her deliberately in order to make a more brilliant show of the new manner of building in which he has played some part. I should not remain silent over the fact that he follows strictly the moulds of a ship of the same Rate which was very successful. If this be true, then I myself am in error in the opinion which I have formed of her.

Among the ships which are moored in the Medway before Chatham and which I have been on board, the most remarkable for their excellent building in all their parts which can be seen above the waterline, and within, are the *Royal George*⁵², ship of 100 guns, the *Grafton*⁵³ and the *Nottingham*⁵⁴ of 70 guns, and the *Dragon*⁵⁵ of 60 guns. The first is much admired by the English, and I think them to be right in this. She is a very fair ship. Her lines are similar to those of the *Royal Sovereign*. I have seen her draughts. Yet she is superior to her, by the greater space which she has upon her decks, by the lines of her hull above the waterline, and by the fact that she is better executed in her upper works and has less sheer.

LXVI I should add to what I have already said about the keels of the English ships, Remarks IV and XLI, that in all their ships the skeg of the keel is cut short. I had already remarked this in one of the ships at Deptford, yet I was not certain of it as I am today that all the English ships are the same in this respect. I have seen draughts in the office of Mr Ward where the long skeg is still shown, I asked him why I did not see it in all the draughts and he replied that for about the last ten years they have cut off this timber, finding it of no usefulness. In this we are nearly in accord with the English shipwrights, for we have already greatly reduced the projection of this skeg. See Remark IV.

51. i.e. the 1719 Establishment.
52. *Royal George*: formerly *Royal Charles*, 1st Rate (100). Built Portsmouth Dockyard 1673 as 1443 tons b.m. Renamed *Queen* in 1693. Rebuilt at Woolwich and launched 20th September 1715 as 1801 tons b.m., 172'0" x 49'6". Subsequently renamed again, this time as the *Royal Anne* (January 1756), finally broken up in 1767.
53. *Grafton*: 3rd Rate (70), 151'0" x 40'6", 1095 tons b.m. Built by Swallow & Fowler at Limehouse and launched August 9th 1709. Rebuilt at Woolwich in 1725 as 1133 tons b.m. Broken up in 1744.
54. *Nottingham*: 4th Rate (60), 924 tons b.m., 146'0" x 38'0". Launched Deptford Dockyard June 10th 1703. Rebuilt at Deptford in 1719 as 928 tons b.m., subsequently rebuilt again at Sheerness in 1745 as 1077 tons b.m. Finally sunk as a breakwater at Sheerness in September 1773. Her draughts are shown above.
55. *Dragon*: 4th Rate (60), 1067 tons b.m., 144'0" x 42'0". Built at Woolwich Dockyard in 1736 and sunk as a breakwater at Sheerness in July 1757.



LA BELLE-POULE

12-PDR FRIGATE 1765

A study of 12-pdr frigate & monograph

by engineer GUIGNACE

In France, the renaissance of the French military navy at the time of the American War of Independence was preceded by a great deal of research in the field of naval architecture and artillery.

The 12-pdr frigate is the direct result of this effort. 104 such ships were built between 1748 and 1798. The 12-pdr frigate is the typical ship of the American Revolutionary War, subsequently the 18-pdr will take its place during the wars of the First Empire.

There were many 12-pdr frigates from which to choose, but the *Belle-Poule* was the obvious choice since she distinguished herself along with the lugger *Le Coureur*, as the first ship to be involved in combat action on 17 June 1778 during the Revolutionary Wars. The direct account of this battle by the parties involved will give readers an immediate feel for the period. History buffs and ship's model builders alike will be captivated by this narrative that documents an actual artillery duel between two ships of comparable strength.

History buffs and ship's model builders alike will be captivated by this narrative that documents an actual artillery duel between two ships of comparable strength.

COMPOSITION OF THE MONOGRAPH

117 pages
booklet,
24x31cm format,
including:

- The history of the 12-pdr frigate
- Comparative plans of several frigates
- Interior accommodation of the frigate
- Protection of the underwater hull
- Monograph of the Belle Poule
- Construction
- Artillery
- History
- Technical commentary on the plates

Set of 22 plates
at 1:48 scale
including:

- 1 Schematic view
- 2 Horizontal sections
- 3 Vertical sections
- 4 Building the bow and the stern
- 5 Plan of the ship's battery
- 6 Plan of the forecastle and quarterdeck
- 7 View of the hull
- 8 View of the bow and stern
- 9 Cross-sections
- 10 Longitudinal section
- 11-12 Fittings
- 13 Coppering
- 14 Mastig components
- 15 Mast fittings
- 16 Foremast square sails
- 17 Mainmast Square sails
- 18 Mizzenmast Square sails
- 19 Fore-and-aft sails
- 20 The ship under full sail at 1:72 scale
- 21 Belaying plan
- 22 Schematic view at 1:72 scale

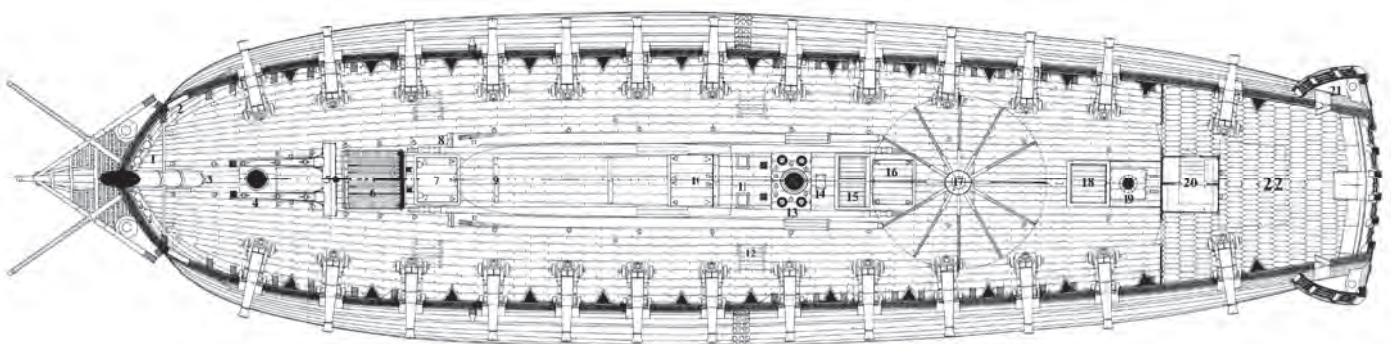
Some photos

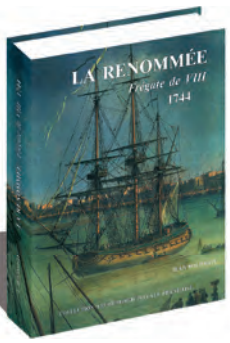


MODEL RIGGED			HULL		
Lenght	Width	Height	Lenght	Width	Height
140	70	104	101	24	22

cm.

A plate





LA RENOMMÉE

AN 8-POUNDER-GUN FRIGATE
1744

MONOGRAPH 1/48 SCALE

A monograph with all the timbers
construction

Jean BOUDRIOT

This monograph takes its place in a series of texts devoted to the most representative ships of the French Navy in the classical period. We have addressed the subject of frigates in two other monographs (the *Vénus* and the *Belle-Poule*) which are distinguishable by their battery of 8 and 12 pdr guns. The present monograph discusses an armed frigate bearing 8-pdr guns. It is a unique ship because *La Renommée* was one of the first modern frigates to be built in 1744 according to Blaise Ollivier's concepts. This aspect is developed in another volume in our series which discusses the history of the frigate. The monograph on the *Renommée* was done using the same descriptive approach we

adopt in the other monographs in the series. This full monograph is for scholars and above all for model builders. According to their skill and experience, they will be able to execute a full model of the timbers and the below-deck installations (the oblique inner planking of the hull will require great dexterity).

The casks for wine and water are not represented, nor are the cables and warps. However it is possible to construct these elements using the information in volume II of *The 74-gun Ship*, but their placement will hide the timber work. We leave this choice to the builder at the appropriate moment.

The hull may be fitted out with only the lower masts or rigged with furled or unfurled sails, allowing for full use of the monograph. The model may be built without attention to the timbers and accommodations, with or without rigging. This is entirely dependent upon the builder's taste and especially his or her experience. This monograph is intended a priori for model builders with considerable experience. Confirmed hands will be able to construct a model of rare quality, especially thanks to the beauty of this elegant frigate whose fine bottom and distinguished decoration do honor to French naval architecture.

MONOGRAPH COMPOSITION

Table of contents	Sources and history		Pieces of decoration	
	Reproduction of plates and comments	7 - 19	Rigging rules	86
	Note on diagonal braces	20 - 81	Belaying points	87 - 105
	Note concerning the artillery	31 - 32	Running rigging and blocks	106 - 107
	Note on paint shades	82 - 83	Lower yards rigging	108 - 109
	Note concerning the ironwork	83		110
	84 - 85			

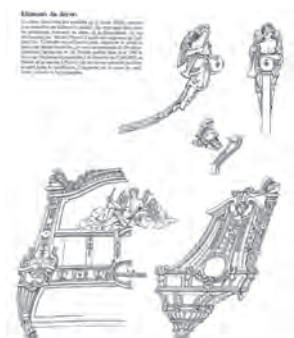
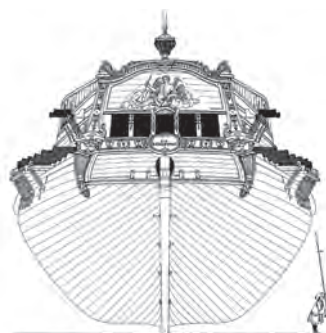
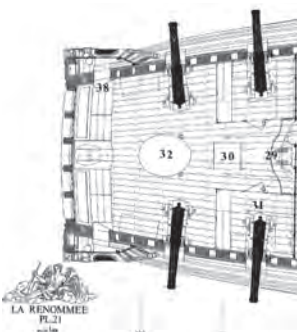
List of plates at 1/48 but 31 et 32	Structural elevation		Hull elevation (with fittings)	
	2. Horizontal sections	25. Hull elevation (with fittings)	26. Head and stern views	
	3. Vertical cross-sections	26. Head and stern views	27. Fittings (1)	
	4. Elevation view of the hull framing	27. Fittings (1)	28. Fittings (2)	
	5. Plan view of the hold and lower deck	28. Fittings (2)	29. Spars	
	6. Ceiling in the hold	29. Spars	30. Mast fittings	
	7. Hull plan (framing and planking)	30. Mast fittings	31. Suit of sails (1/120 th scale)	
	8. Gun-deck plan	31. Suit of sails (1/120 th scale)	32. La Renommée under sail (1/84 th scale)	
	9. Quarterdeck and forecastle plans	32. La Renommée under sail (1/84 th scale)		
	10. Cross-sections			
	11. Lengthwise section			
	12. Structural elements			
	13. Construction of the head			
	14. Construction of the stern			
	15-16-17-18-19. Draughts of the frames			
	19 prime. Accommodations in the hold			
	20. Accommodations in the lower deck			
	21. Gundeck layout			
	22. Construction of the forecastle and quarterdeck			
	23. Cross-sections (accommodations)			
	24. Lengthwise section (accommodations)			



MODEL RIGGED			HULL		
Lenght	Width	Height	Lenght	Width	Height
123	55	95	95	25	25

Mesures en cm.

Some plates





Jean-Claude LEMINEUR

THE 74-GUN SHIP

TIMBERING PLANS

A supplement to the booklet of plans intended for modelers

The essential complement to your 4 volumes

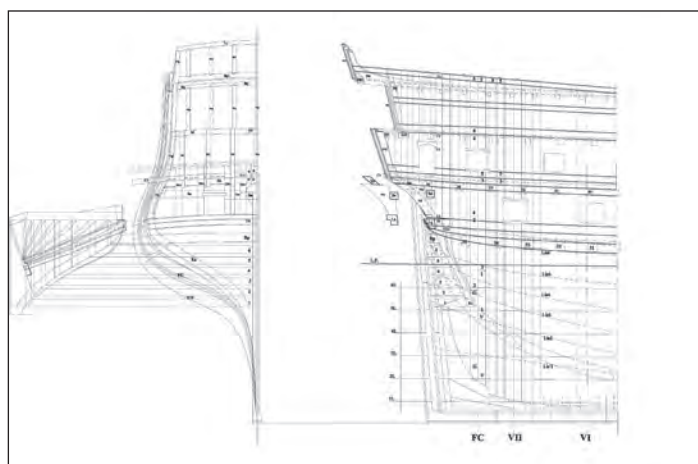
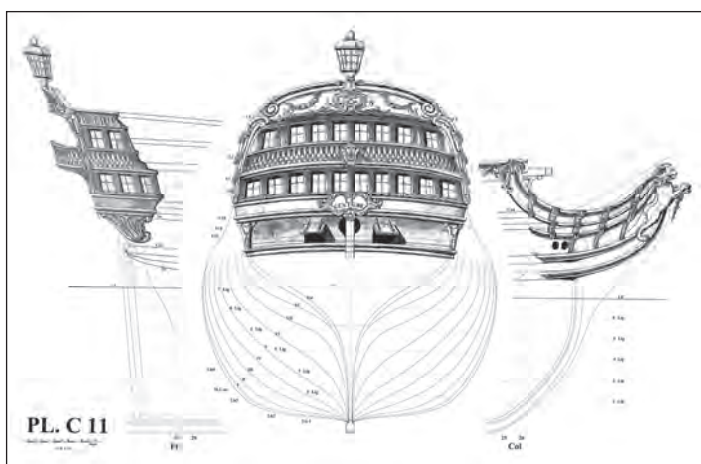
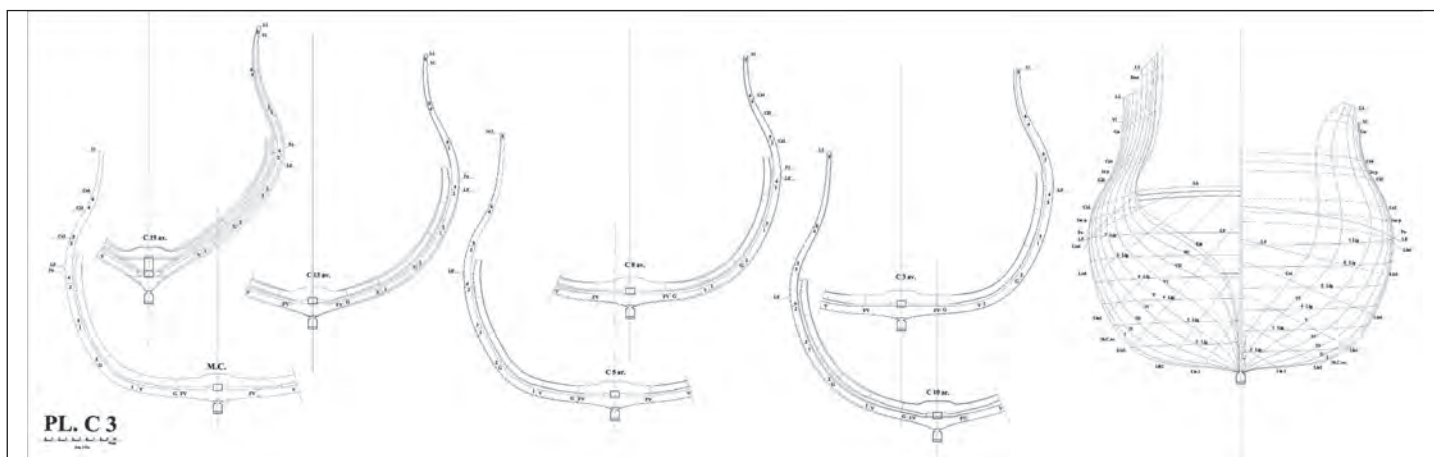
The 11 timbering plans (1/72 or 1/48) with a color 24-page booklet

The 31 x 91 cm plates include the full, detailed draft of the various elements making up the stem and stern structures as well as the profile of all the hull frames. The 24-page booklet retracing the summarized history of the evolution of the 74-gun ship from its origin in 1664 until the adoption of the Sané plan in 1782, and ends with a series of nine pages of photographs illustrating the construction of the timber structure.

PRESENTATION

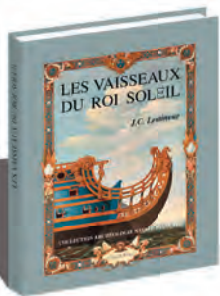
- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Schematic elevation 2. Plan view of the waterlines and construction ribbands 3. Cross-section of the hull. Drafts of the rider frames 4. Drafts of stern timbers (I) 5. Drafts of stern timbers (II) 6. Drafts of frames from ahead of the beakhead to frame 16 | <ol style="list-style-type: none"> 7. Drafts of frames from ahead of frame 15 to the forward main frame 8. Drafts of frames from aft of main frame to frame 15 9. Drafts of frames from aft of frame 16 to false-frame 30 10. Drafts of stem timbers 11. Proposal for substituting the decoration of <i>Centaure</i> and <i>Superbe</i>. |
|---|---|

Some timbering plans



Some photos





THE SHIPS of the Sun King

Jean-Claude Lemineur

The book contains 240 pages, including 126 pictures and 30 tables and miscellaneous drawings.

The glorious title of this volume guarantees that its contents will not disappoint our readers.

The author presents the creation and evolution of Louis XIV's navy in an historical context. The fruit of many long years of archival research working with primary sources, its invaluable contents are an essential reference work of French naval history. We present its table of contents for your examination. In his introduction, Jean-Claude Lemineur explains his choice to focus the volume on those ships, especially three deckers, which were selected to form the first line of battle. This is but one aspect, however, of an enormous project involving commentary and original analyses by the author.

The first study of Louis XIV's navy takes its place as the culmination of our *French Naval Archeology Collection*. We hope that we have accomplished the task we set ourselves and have introduced a wider audience to the importance of French naval architecture in our cultural heritage.

PRESENTATION OF THE BOOK

24 x 31cm format, full grey-blue cloth binding, sewn section with headband.

Laminated inside dust jacket, with a four-color illustration of the ship Le Soleil Royal.

232 pages, 135 gr paper, with 126 illustrations and 30 tables.

Two four-color inset plates reproducing the illustration on the dust jacket.

TABLE OF CONTENTS

Chapter I: The Ship

The ship: The sailing ship in naval armies
Single line ahead combat : a measured tactic.
Origin of the sailing ship as a mercantile vessel.
Evolution of naval might during the first half of the 17th century.
Criteria of a war ship.
Organization and structure of naval armies during the second half of the 17th century.

Chapter II: Naval Shipbuilding under Louis XIV

The King's first navy : building without firm goals.
Royal regulations governing construction : a late attempt at uniformity.
From the regulations of 1670, 1671 and 1673 to the ordinance of 1689: the navy in transition.
Louis XIV's second navy.
A Navy with no tomorrow.
The ordinance of 1689 on naval construction : a completely ignored statute.
Remarks on decoration.
La première marine de Louis XIV: une

construction sans réelles directives.

Chapter III: Naval artillery under Louis XIV.

The state of artillery in 1661.
Developments in artillery after 1661.
Evolution of firearms.
Characteristics of ship-borne artillery.

Chapter IV: The organization of batteries.

The supremacy of the three-decker in the line of attack.
Characteristics of three-decker ships with over 70 guns in 1671.
Characteristics of three-decker ships with fewer than 70 guns.
The centrality of 50-gun three deckers in foreign navies.
A companion of fire power between two-decker and three-decker ships.
Berths and accommodations on three deckers and two deckers.
Full and partial decks.
Elimination of the third deck on 56-gun ships

after 1671.

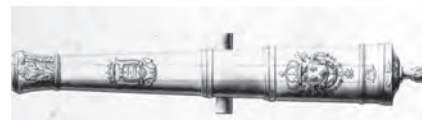
Elimination of the third deck on 66-gun ships.
The third deck on 70-gun ships.

Chapter V: Typical evolution

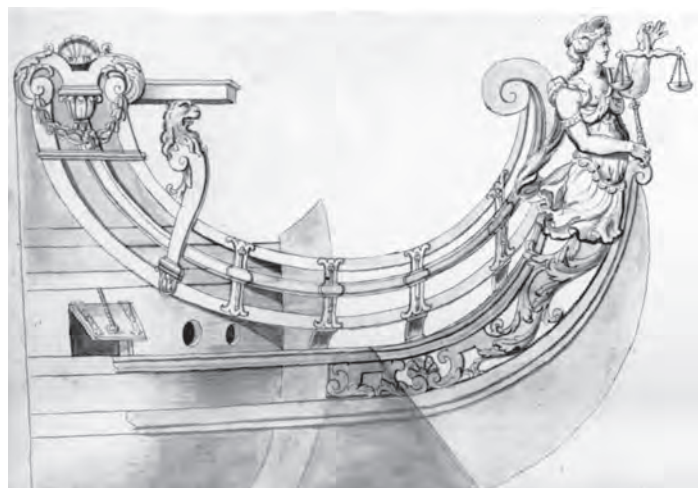
Overview.
The 56-gun ship fitted with 12 gunports.
The 56-gun ship fitted with 13 gunports.
The 66-gun ship fitted with 13 gunports.
The 76-gun ship fitted with 14 gunports.
The 80-gun ship fitted with 14 gunports.
From 90- to 100-gun ships.
Ships equipped with over 100 guns.
A note on the representative quality of these types.

Conclusions

Summary tables and pieces of correspondence.



Representations





THE ART OF SHIP MODELING

Over 600 photographs in full color

Bernard FRÖLICH

Bernard Frölich has always been a builder of ship's models. As a geographical engineer, he discovered Jean Boudriot's books and monographs in the late 70s. He fell in love with the beauty of sailing ships of the classic period and since then has dedicated all his free time to building historical navy models. This practical experience made him a genuine authority in that field. He has published numerous articles on that subject over the past years. At our request, he has gathered, edited and significantly enriched these articles in order to produce his book. *L'Art du Modelisme* describes the author's experience and methods in 300 pages abundantly illustrated with numerous drawings, sketches and more than 600 commented photos.

In this book, Frölich describes in detail all the crafts that a shipmodeler must master: he must be in turn a shipwright; a carpenter; a cabinetmaker; a marqueteur; a blacksmith; a ropemaker and a sailmaker. He shows that any beginner, if he is industrious and persevering, can master this art. This fact becomes all the more evident since we can see the tremendous progress made by the author himself through the use of photographs of his own work.

This book itself is a tremendous learning experience. In the first twenty pages Frölich describes his studio, his tools and equipment and his library. He then devotes about one hundred pages to the timbers of a 1730 merchant vessel, the *Mercure*, and to M.de Tourville's three-decker vessel of 1680, *L'Ambitieux*. In the next one hundred twenty pages, the author discusses the equipment, fittings, guns, decoration and sculptures, ship's boats and rigging. The final sixty pages offer a description of Frölich's own models (all at 1:48th scale): the schooner *Jacinthe*; the lugger *Coureur*; the brig *Cyclope*; the bomb ketch *Salamandre*; the 12-pdr frigate *Belle Poule*; the merchant vessel *Mercure* and the xebec *Requin*. The unfinished model of *L'Ambitieux* - the Chevalier de Tourville's three-decker vessel - is abundantly described in the chapter on framework. Although the author denies it, this book is a genuine treatise on historical naval shipmodeling. The photographs included show that the skills of today's shipmodelers match the talent of the creators of the period model pieces preserved and displayed in our museums.

TABLE OF CONTENTS

Strong volume size 24x31 cm, canvas cover full gray-blue, sewn sections, slice thread. Laminated dust jacket. 304 pages.

	THE ART OF SHIP MODELING
I	GENÉRIS CONSIDÉRATIONS
II	FULLY-FRAMED CONSTRUCTION Principles, and an example of fully-framed construction: (I) <i>Le Mercure</i> (II) <i>L'Ambitieux</i> - An 80-gun Three-decker
III	FITTINGS
IV	ARTILLERY

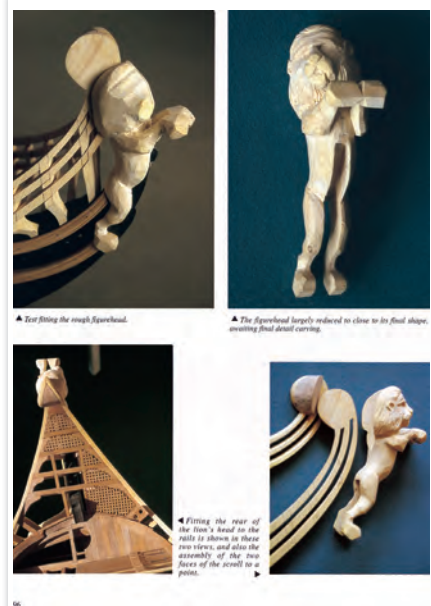
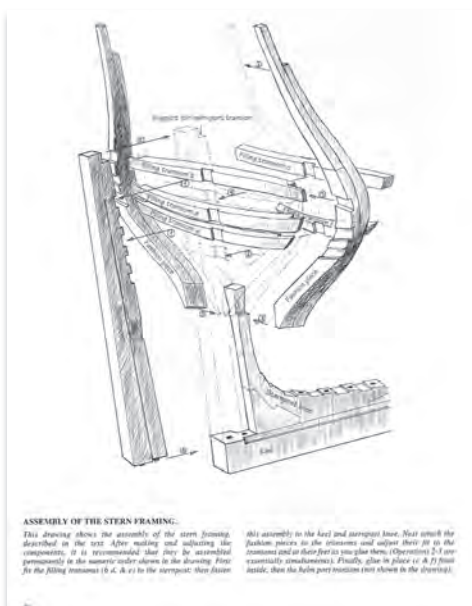
V	DECORATION AND CARVINGS
VI	SHIP'S BOATS
VI	MASTING AND RIGGING
VIII	THE MODELS <i>Le Cyclope,</i> <i>La Salamandre,</i> <i>Le Coureur, Le Requin</i> <i>La Belle Poule,</i> <i>Le Mercure, La Jacinthe.</i>

Brig 1804
Bomb Ketch 1752
Lugger 1776
Frigate 1765
Merchant Ship 1730
Schooner 1823
Xebec 1750

Remarks from Jean Boudriot



Extracts from the pages





AIGLE

The Imperial yacht of Napoleon III

1857-1892

A 1/100th scale monograph

**Tola PONEDELNIK -
Alain DEGNY**

Intended to be a showcase of the nation and to contribute to the prestige of the Empire that it represents on the oceans beyond our frontiers, the *Aigle*, a magnificent yacht with elegant lines, inspired from queen Victoria's, was the child of the great naval architect Dupuy de Lôme. With a 500 hp engine driving paddle wheels, it could reach a speed of 14 knots, making it one of the speediest of the avisos fleet of the French Navy. Its luxurious Accommodations were provided by Alexandre Fourdinois, the favorite cabinet-maker of the Emperor and Empress. The height of his career, the *Aigle*, with the Empress Eugénie aboard, was the first vessel to sail through the Suez canal at its inauguration.

For several years now, modelers have been expressing the wish of finding documentation on mixed propulsion in the XIXth century. With this monograph, ANCRE Editions bring a first answer to their expectations.

The fruit of his research carried out in the 1990's, in particular at the Service Historique de la Défense, Châtelleraut, the model shown is the work of Tola Ponedelnik (1934-2016). It earned the gold medal at the World Naval Modeling Championships in 2006. The Musée National de la Marine also preserves a contemporary model of this ship in its 1859 version. Its study contributed to bringing complementary information about its furniture and its rigging. The *Aigle* is now permanently on display in the Imperial Palace of Compiègne.

This monograph will enable you to build a magnificent model of rare elegance, a perfect marriage of French technique and refinement of the time. So that it can remain within reasonable dimensions, the plans are drawn at the 1/100th scale. The model will be constructed according to the traditional manner, plank on frames with closed hull.

The work also includes a detailed plan and the complete description of the steam launch in service in 1869 and its engine.

MAKE-UP OF THE BOOK

A 108 pages booklet in color in the 23x31 cm format with 175 drawings and photographs with details of the model.

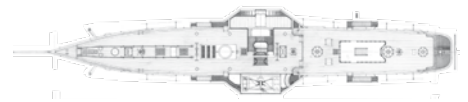
- Prestige and ceremonial yachts
- The steam engine and propulsion. History
- The construction - furniture and accommodations
- Rigging - Ship's boats - Artillery - Flags
- The crew
- Career from 1859 to 1869
- The Suez canal - Ferdinand de

- Lesseps (1805-1894)
- End of career from 1870 to 1891
- The *Aigle* in the international context
- The model of the *Aigle*, photo file - Plans of the *Aigle*

LIST OF PLATES

- Pl 1 - Longitudinal view, body plan. Waterlines
- Pl 2-3 - Keel - Frames
- Pl 4 - Longitudinal view - Upperworks

- Pl 5 - Section of the paddle wheel and the machinery
- Pl 6 - Interior arrangements of the decks and hold
- Pl 7 - Overhead view of the deck - feathering paddlewheel - ship's boats - Artillery
- Pl 8-9 - Copper sheathing - Rigging - The *Aigle* under sail
- Pl 10 - Masts and sails at 1/100th scale.



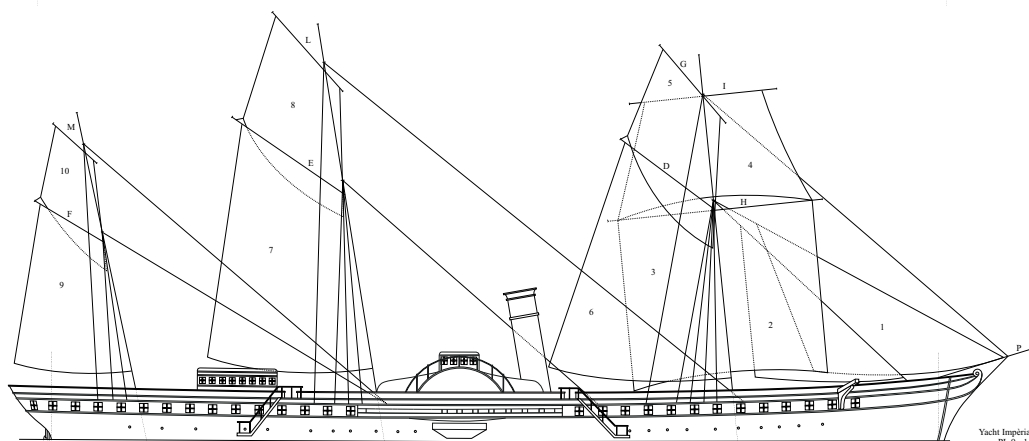
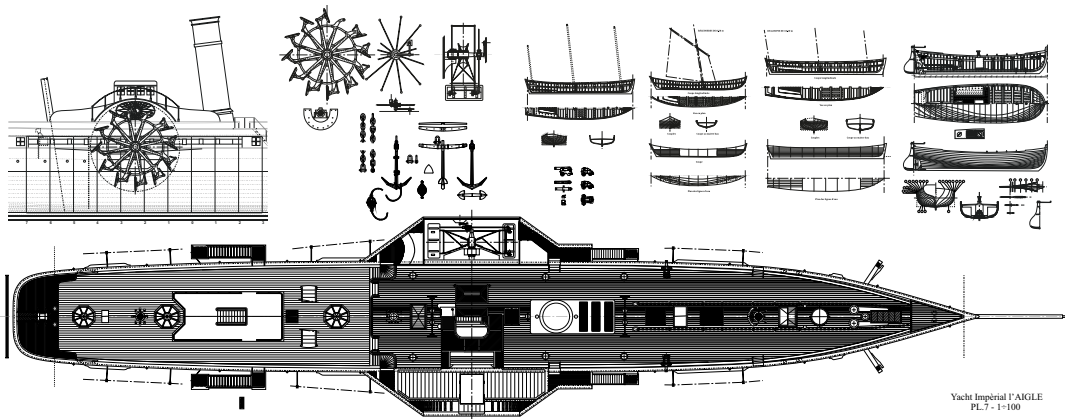
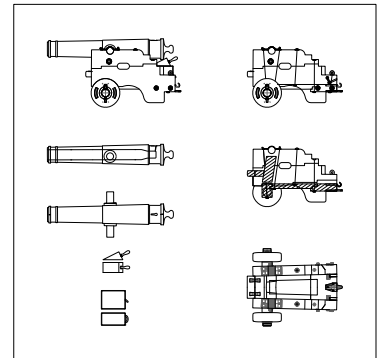
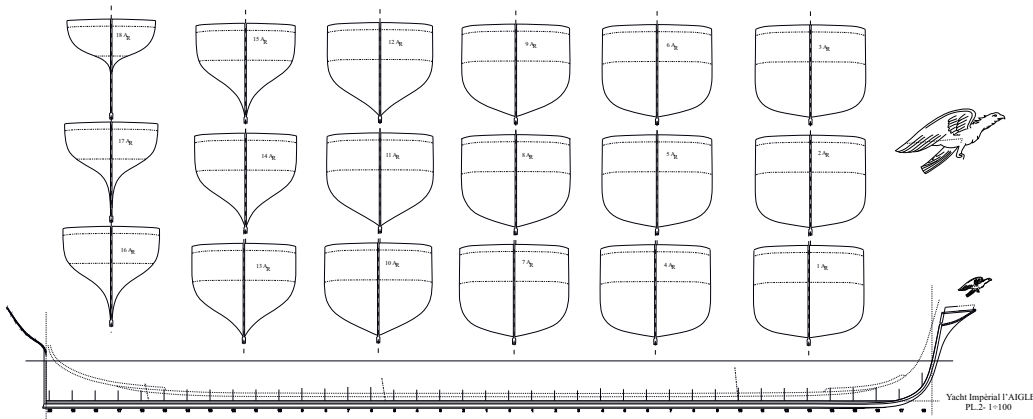
Photos of the model





RIGGED MODEL			HULL ONLY		
Length	Breadth	Height	Length	Breadth	Height
100	20	45	100	18	14

Extracted from the plates



Yacht Imperial l'AGLE
PL.9 - 1-100