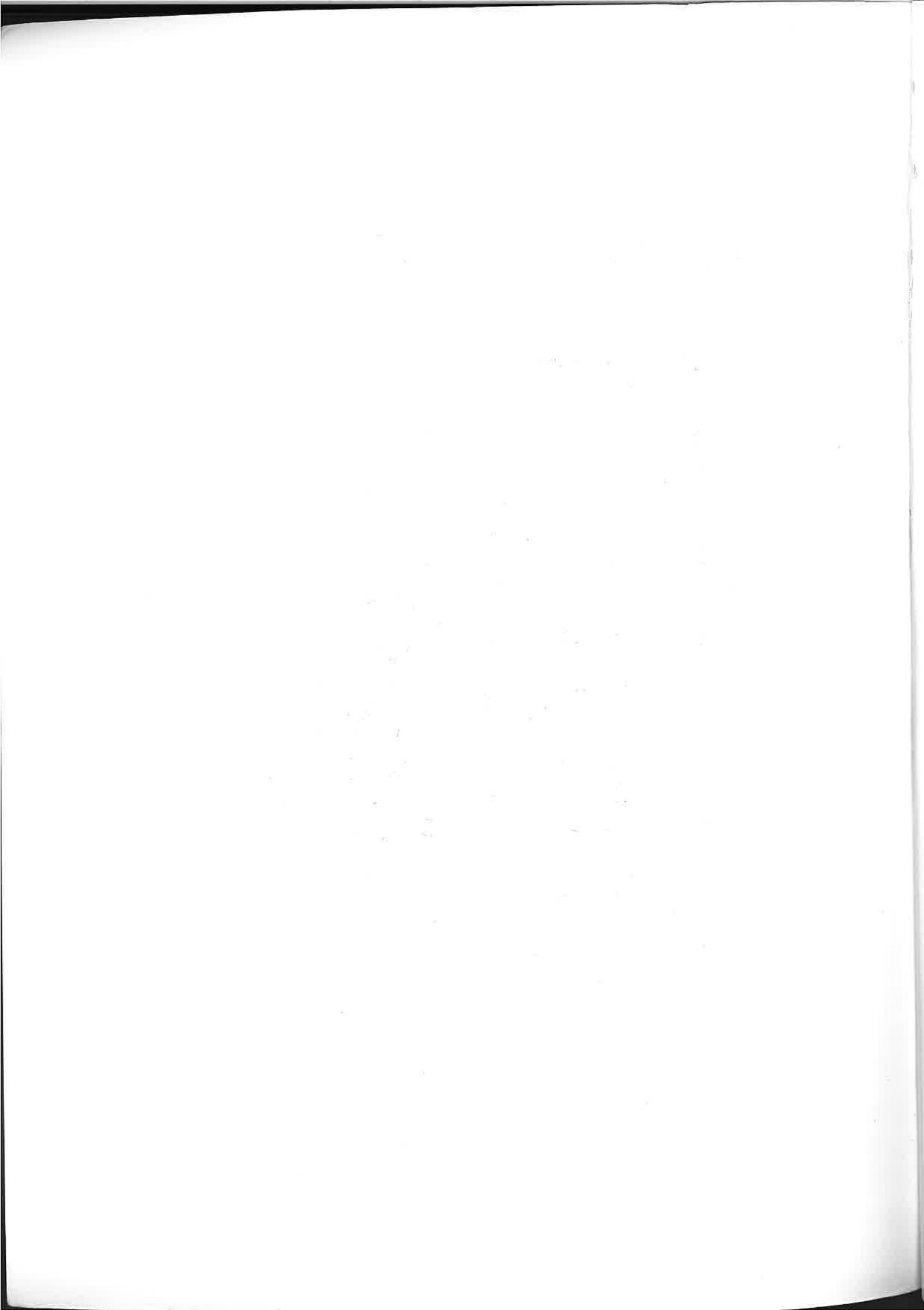


FRENCH SUBMARINES



***ONE CENTURY
OF EXPERIENCE***





Maxime Laubeuf
(1864-1939)
The father of the NARVAL.

Henri Dupuy de Lome (1816-1885),
one of the fathers of the Gymnote.



Gustave Zédé (1825-1891) designer
of the Gymnote.



Gaston Romazotti (1855-1915),
designer of the Gustave Zédé.

Léon Roquebert (1880-1963)
design manager of about
a hundred submarines built
or laid down between 1920 and 1940.



RÉPUBLIQUE FRANÇAISE
MINISTÈRE DE LA DÉFENSE
DÉLÉGATION GÉNÉRALE POUR L'ARMEMENT
DIRECTION DES CONSTRUCTIONS NAVALES
SERVICE TECHNIQUE DES CONSTRUCTIONS ET ARMES NAVALES

PUBLISHED BY THE SUBMARINE DEPARTMENT

**FRENCH SUBMARINES
ONE CENTURY OF EXPERIENCE**

PREFACE

This book summarizes the characteristics of ordered submarines having sailed or not, and for which a hull number was given.

In addition, it includes some informations about war-captured foreign submarines having sailed under the french flag.

The compilation takes into account vessels whose hull number range from Q1 (GYMNOTE) to Q251 (GYMNOTE) except DAPHNE submarines (Q241-Q250) still under service.

When a name has been attributed several times, it is followed by a roman number.
For example : "ARETHUSE III" means that the name was given for the third time.

This compilation is a modest contribution to the history of french submarines. This history had been marked by some prestigious names : Gustave ZEDE, Maxime LAUBEUF, Léon ROQUEBERT... Specialized books deal with the history of their achievements.

This book is dedicated to them; they can be legitimately considered as the fathers of modern submarines, having had the capability, among the various tentatives of their contemporaries, to select between coming solutions and issues with no way out, and to matched military requirements with technical constraints.

If the present book is such that the reader wishes to increase his knowledge on such or such point of the history of the French submarines, it will have fully achieved its aim.

January, 1st, 1988

Gérald BOISRAYON

Chief Naval Architect
Head of "SUBMARINE DEPARTMENT"



ABBREVIATIONS USED

NS: Naval shipyards in historical order.

FRENCH

Ro	Rochefort.
To	Toulon.
Ch	Cherbourg.
FCG	Forges et Chantiers de la Gironde : Bordeaux.
N	Augustin Normand : Le Havre.
S	Schneider : Châlon-sur-Saône.
Br	Brest.
Lo	Lorient.
CNF	Chantiers Navals de France : Caen.
P	Penhoët.
FCM	Forges et Chantiers de la Méditerranée : La Seyne.
ACL	Ateliers et Chantiers de la Loire : Nantes.
D	Dubigeon : Nantes.
W	Worms : Le Trait.

FOREIGN

AGW	A.G. Weser. Bremen.
GK	Germania. Kiel.
GWK	Germania Werft Kiel.
VB	Vulkan Bremen.
VH	Vulkan Hamburg.
VA	Vickers Armstrong.
TT	Tosi Tarente.
DW	Deutsche Werft.
BHV	Blohm und Voss Hamburg.
DB	Deschimag Bremen.
DWH	Deutsche Werft. Hamburg.
DWK	Deutsche Werft Kiel.
KMW	KM Wilhelmshaven.
CL	Gammell-Laird.
Sc	Scotts.
Cha	Chatham.

ENGINES

S	STEAM.
D	DIESEL.

ARMAMENT

TL	Torpedo launcher.
TT	Torpedo tube.
BTT	Bow torpedo tube.
Drzw	DRZEWIECKI.

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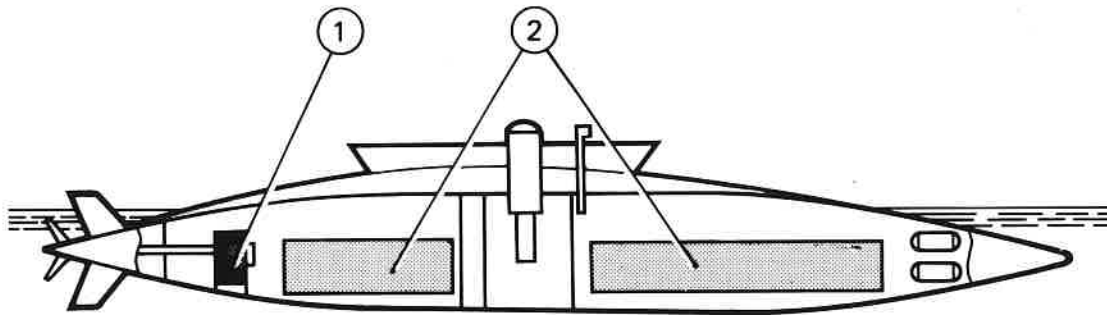
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GYMNOTE



KEY

- 1 – Electric motor
- 2 – Batteries

1 – Electric motor
2 – Batteries

CHARACTERISTICS	
Surface displacement:	30 t
Submerged displacement:	31 t
Length:	17.80 m
Armament:	2 × 356 torpedoes

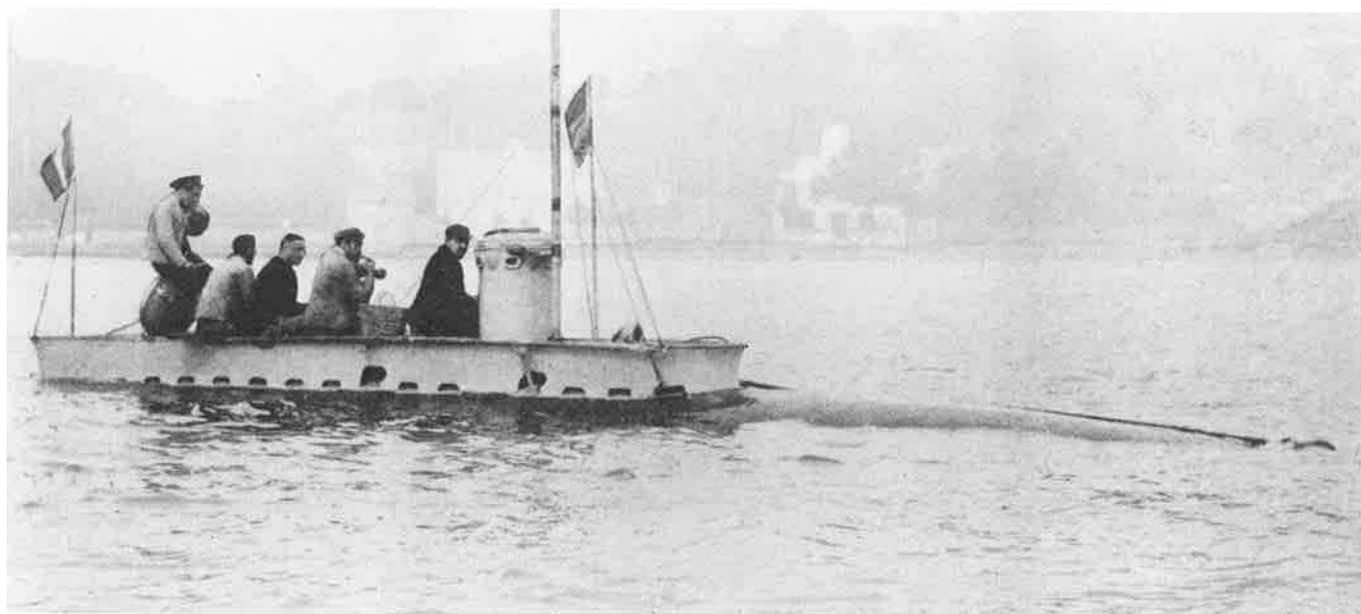
Surface displacement:	30 t
Submerged displacement:	31 t
Length:	17.80 m
Armament:	2 × 356 torpedoes

HISTORICAL DATA							
Ordered the 22-11-1886 - Designers: Gustave Zédé, Dupuy de Lôme.							
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 1	GYMNOTE	To	1887	1888	1900	1908	laid up

Ordered the 22-11-1886 - Designers: Gustave Zédé, Dupuy de Lôme.

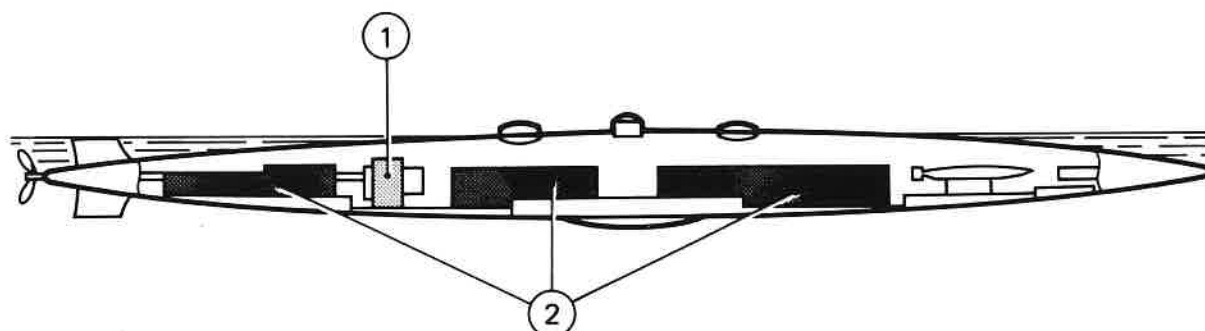
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						DATE	CAUSE
Q 1	GYMNOTE	To	1887	1888	1900	1908	laid up

GYMNOTE



GYMNOTE

GUSTAVE ZEDE



KEY

- 1 – Electric motor
- 2 – Batteries

CHARACTERISTICS

Surface displacement: 261 t
 Submerged displacement: 270 t
 Length: 48.50 m
 Armament: 1 fore S/M tube
 2 spare torpedoes

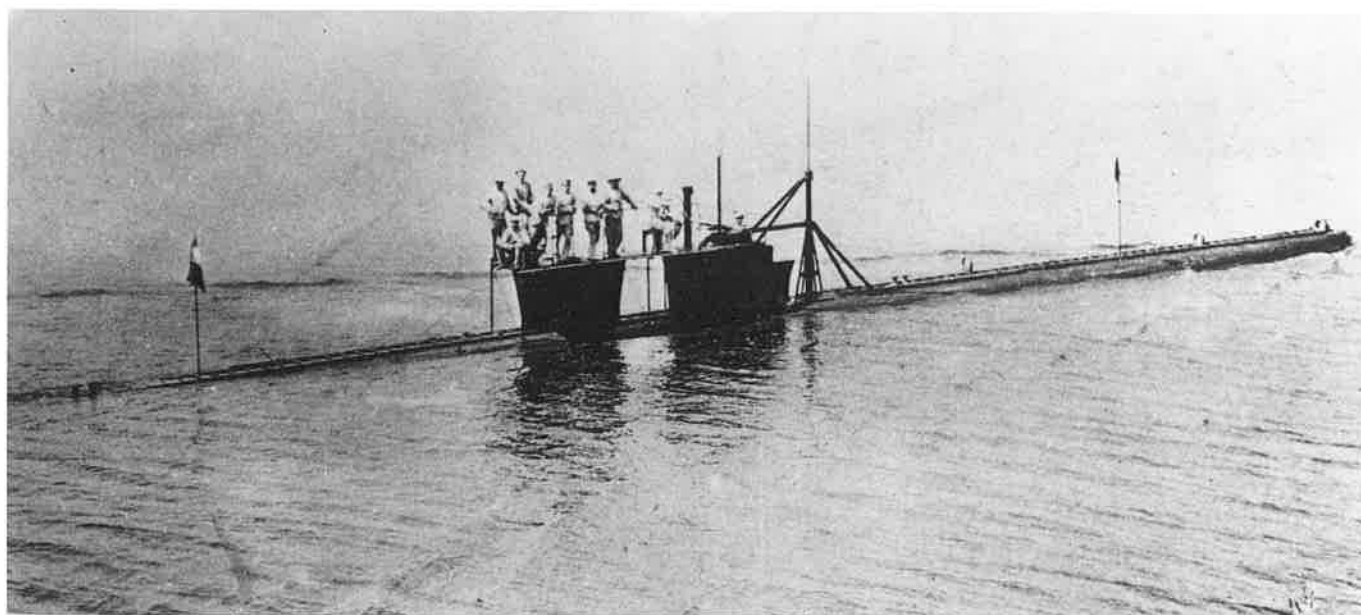
HISTORICAL DATA

Built under the name of SIRENE, renamed GUSTAVE ZEDE in 1891.

Ordered the 04-10-1890 - Designer: Romazotti.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 2	GUSTAVE ZEDE	To	1891	1893	1899	1909	laid up

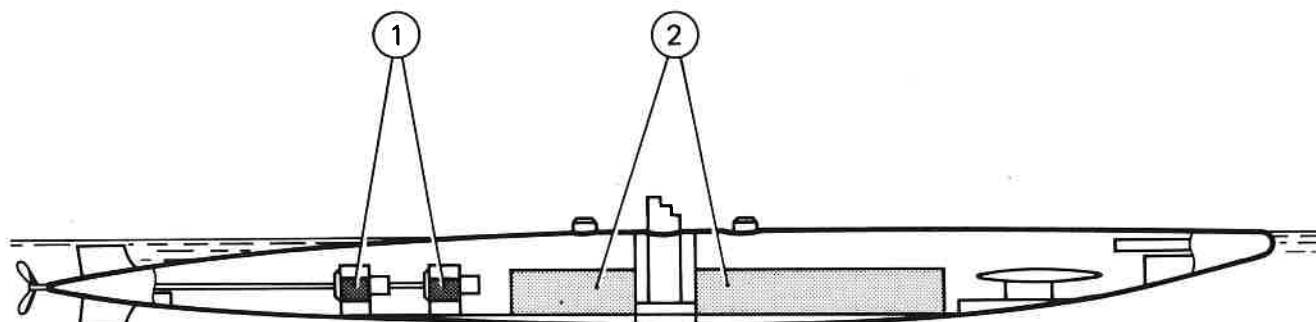
GUSTAVE ZEDE



GUSTAVE ZEDE

CLASS

MORSE



KEY

- 1 – Electric motor
- 2 – Batteries

CHARACTERISTICS

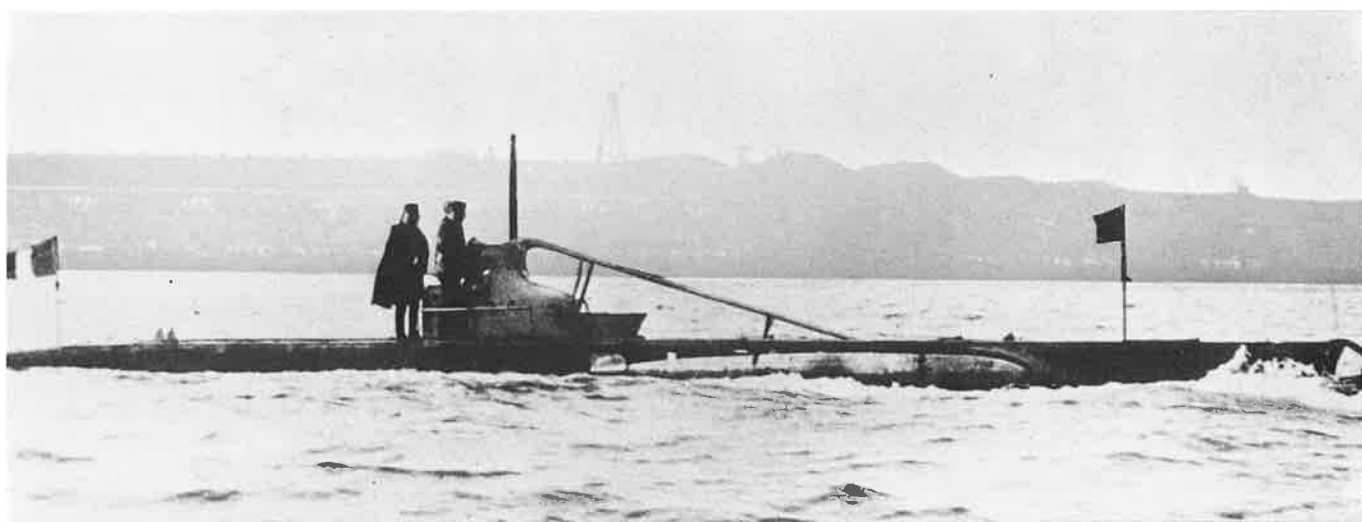
Surface displacement: 143 t
 Submerged displacement: 149 t
 Length: 36.50 m
 Armament: 1 × 450 BTT
 + 2 × 450 carcass
 TLs for the Français
 and Algérien

HISTORICAL DATA

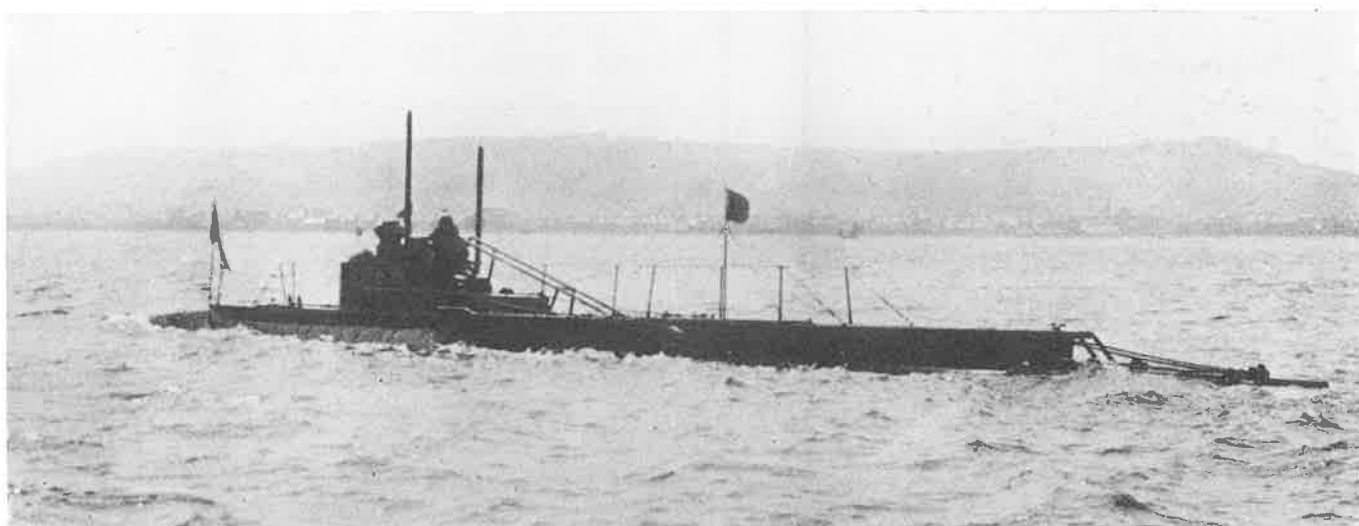
Ordered the 13-06-1892 - Designer: Romazotti.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 3	MORSE	Ch	1897	1899	1900	1909	laid up
Q 11	FRANÇAIS	Ch	1900	1901	1902	1914	laid up
Q 12	ALGERIEN	Ch	1900	1901	1901	1914	laid up

MORSE



MORSE

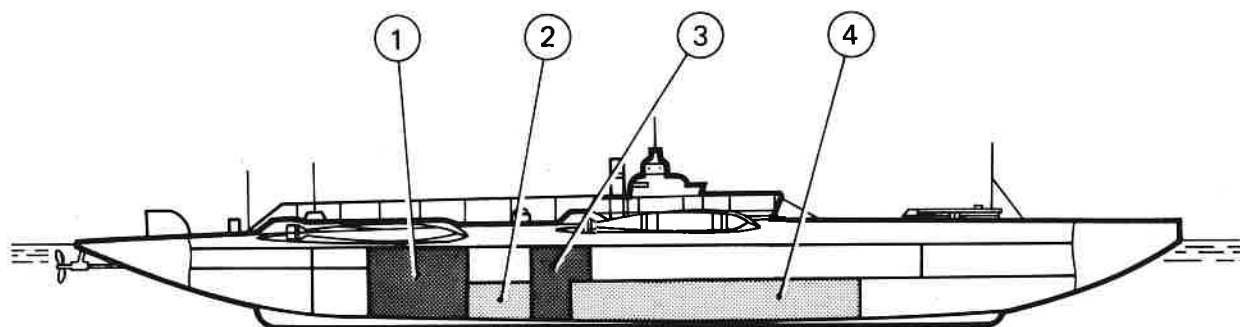


FRANÇAIS



ALGERIEN

NARVAL



KEY

- 1 – Electric motor
2 – Steam engine
3 – Boiler
4 – Batteries

CHARACTERISTICS

Surface displacement:	117 t
Submerged displacement:	202 t
Length:	34 m
Armament:	1 × 450 Drzw TLs

HISTORICAL DATA

Ordered the 01-06-1898 - Designer: Laubeuf.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 4	NARVAL	Ch	1898	1899	1900	1909	laid up

CLASS

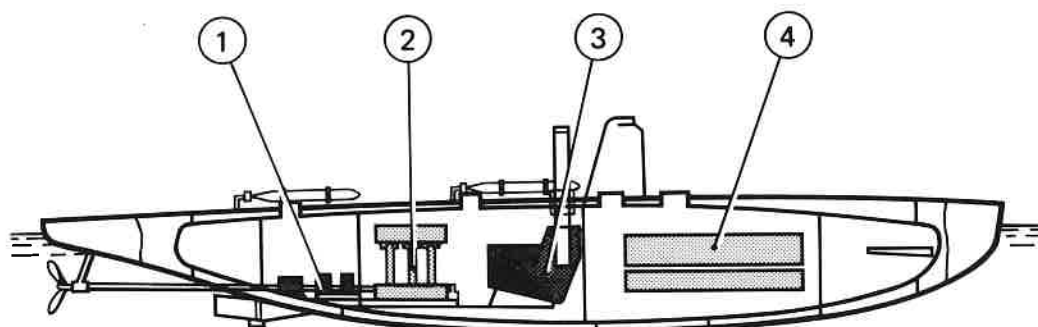
NARVAL



NARVAL



SIRENE



KEY

- 1 – Electric motor
- 2 – Steam engine
- 3 – Boiler
- 4 – Batteries

CHARACTERISTICS

Surface displacement: 157 t
 Submerged displacement: 213 t
 Length: 33 m
 Armament: 4 × 450 Drzw TLs

HISTORICAL DATA

Ordered the 20-05-1899 - Designer: Laubeuf.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 5	SIRENE	Ch	1900	1901	1901	1919	laid up
Q 6	TRITON	Ch	1900	1901	1901	1919	laid up
Q 13	ESPADON	Ch	1900	1901	1902	1919	laid up
Q 14	SILURE	Ch	1900	1901	1902	1919	laid up

SIRENE



SIRENE

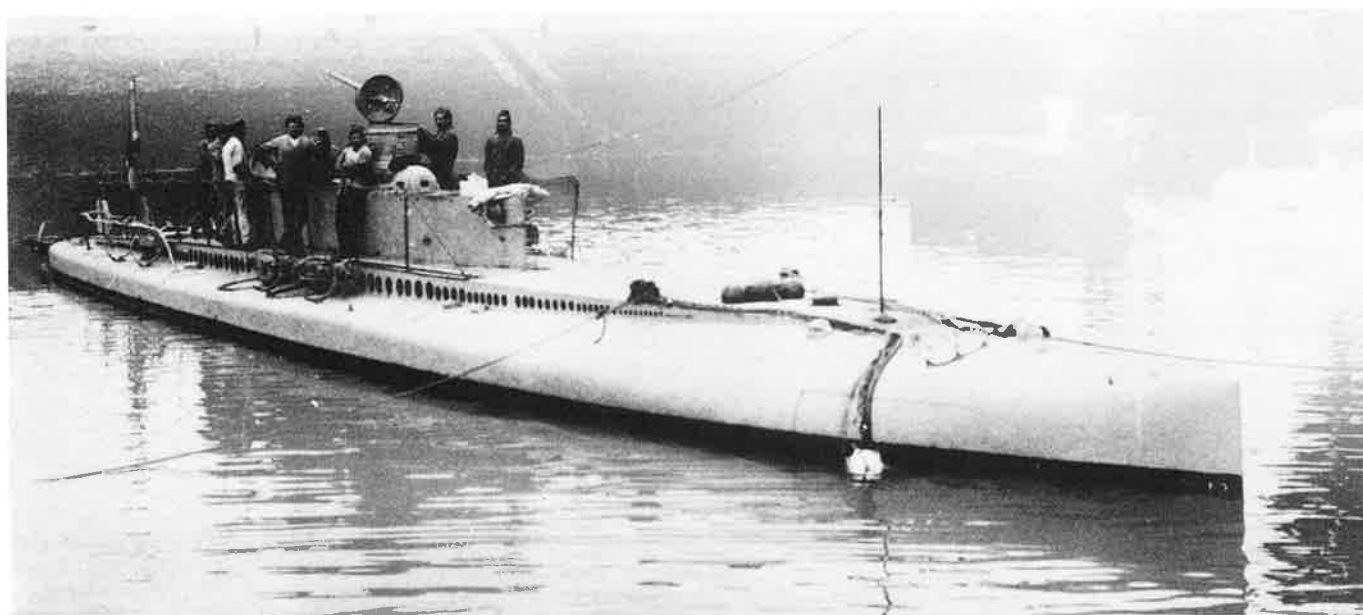


TRITON

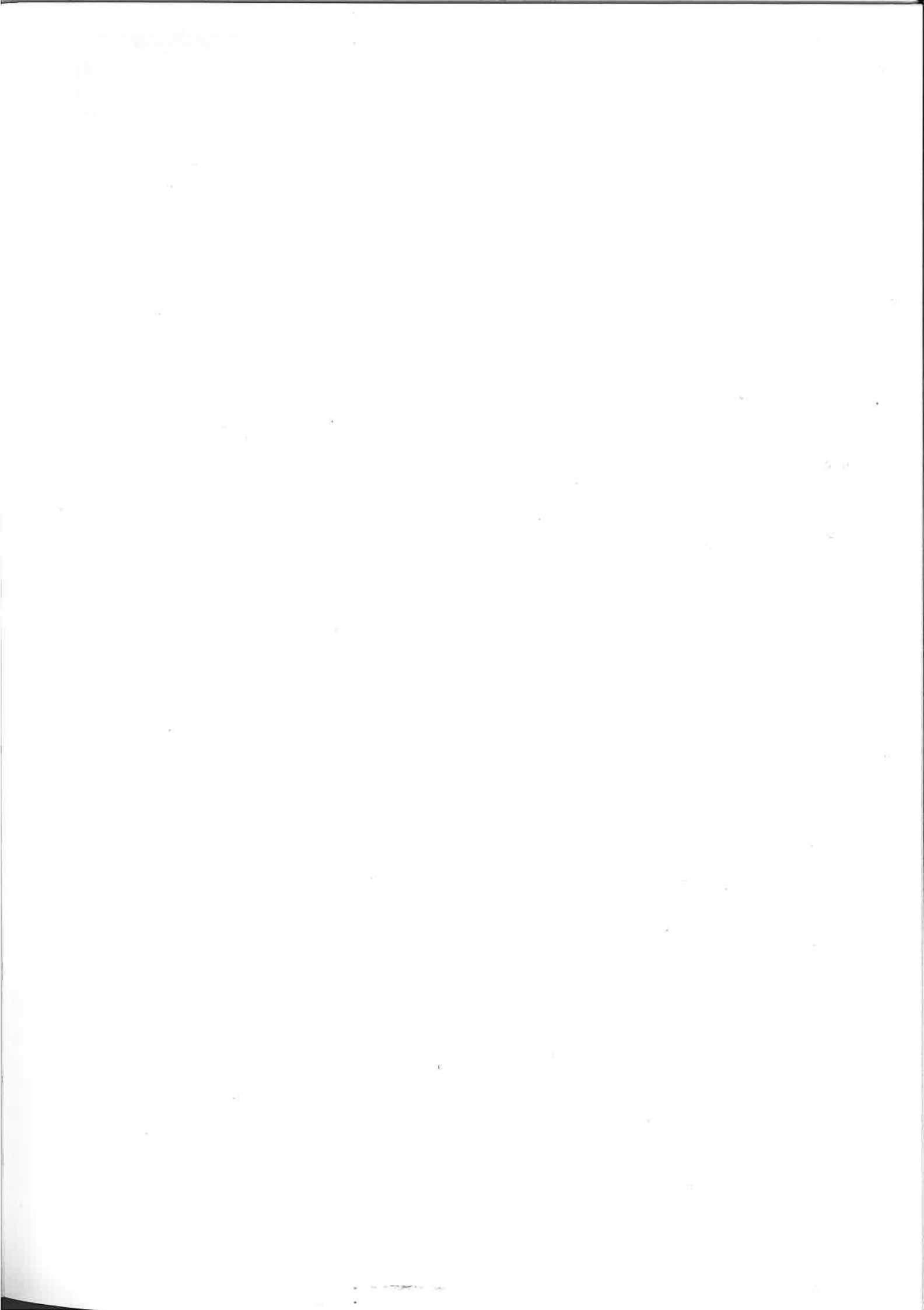
SIRENE



ESPADON

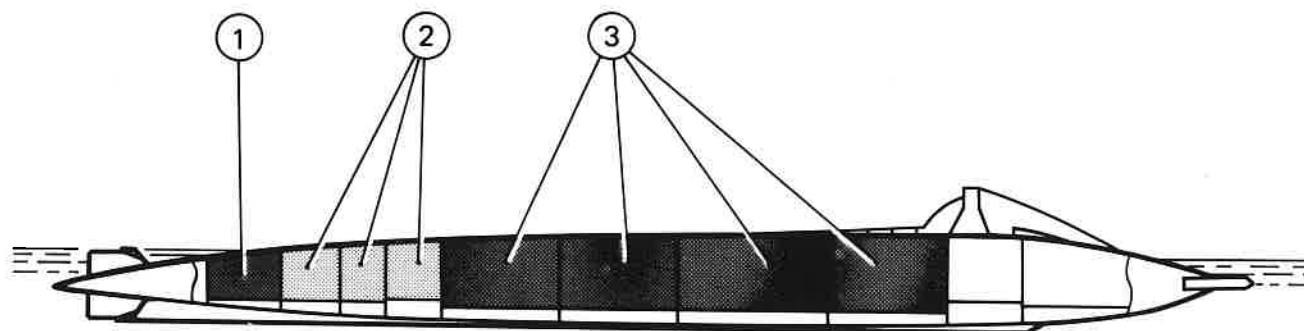


SILURE





FARFADET



KEY

- 1 – Rudder electric motor
- 2 – Steam engine
- 3 – Batteries

CHARACTERISTICS

Surface displacement: 185 t
 Submerged displacement: 202 t
 Length: 41.35 m
 Armament: 4 × 450 carcass TLs

HISTORICAL DATA

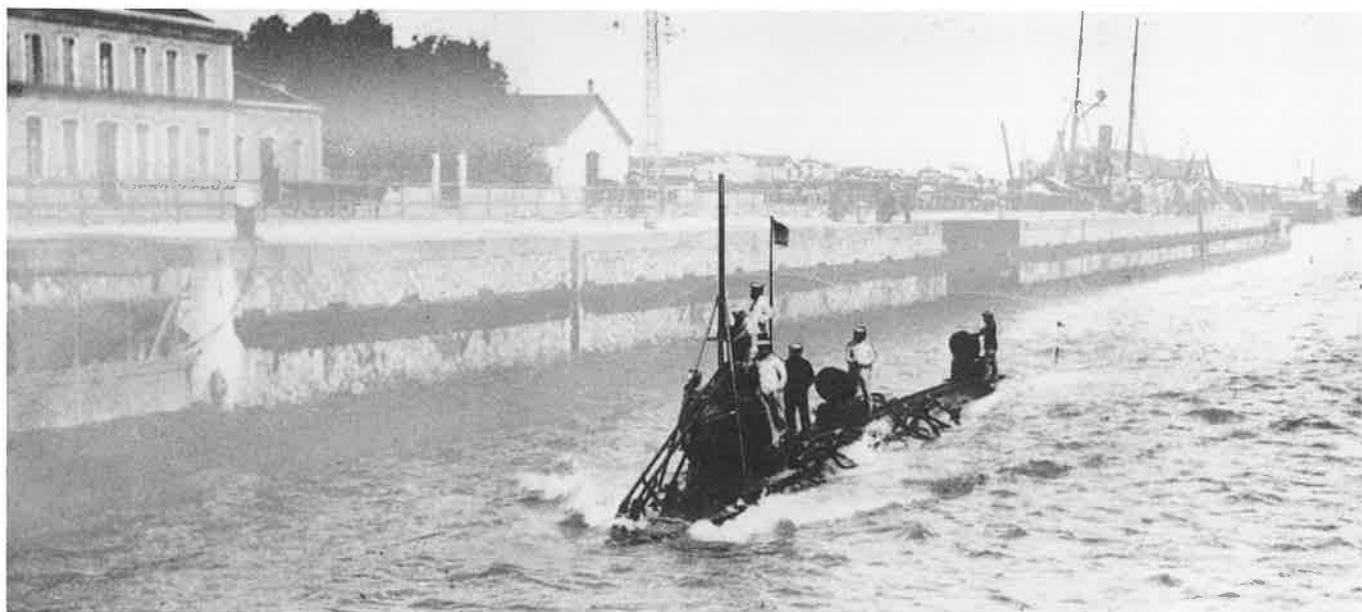
The FARFADET and the LUTIN were accidentally sunk (05-07-1905 and 16-10-1906). They were raised up and the first was commissioned in 1909, under the name of FOLLET

Ordered the 26-09-1909 - Designer: Maugas

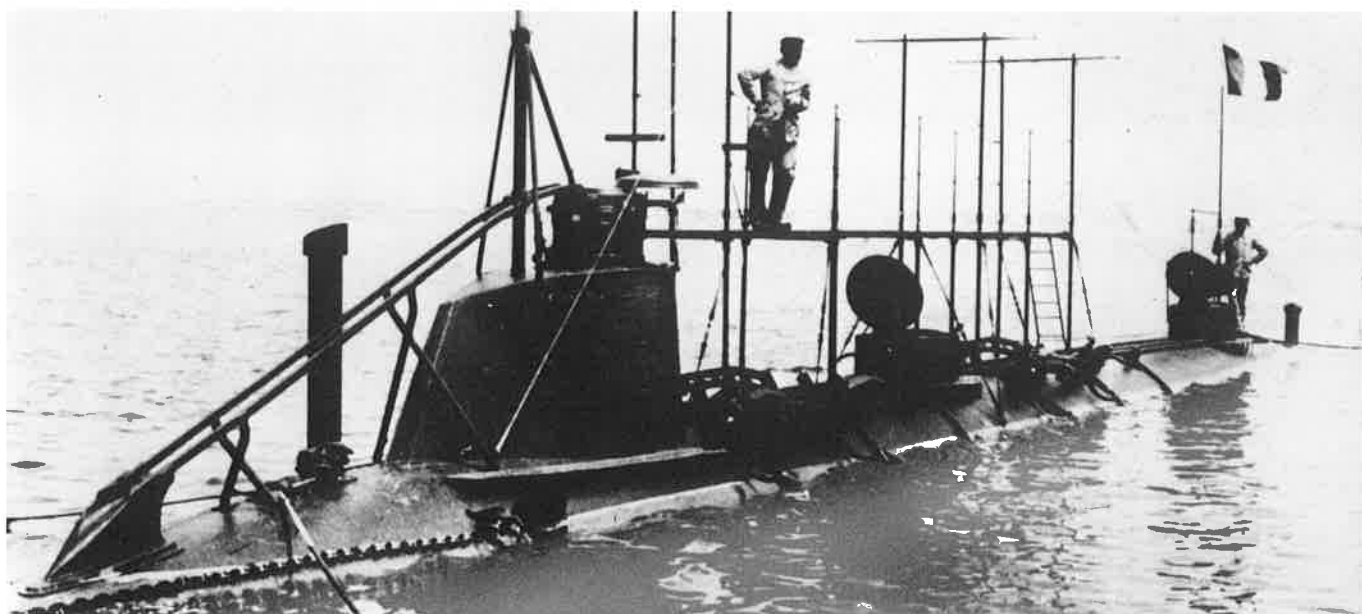
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 7	FARFADET	Ro	1900	1901	1903	1905	sunk
Q 7	FOLLET	—	1905	—	1909	1913	laid up
Q 8	KORRIGAN	Ro	1900	1902	1903	1910	laid up
Q 9	GNOME	Ro	1900	1902	1903	1910	already laid up in 1906
Q 10	LUTIN	Ro	1900	1903	1905	1906	sunk



FARFADET



FARFADET



KORRIGAN

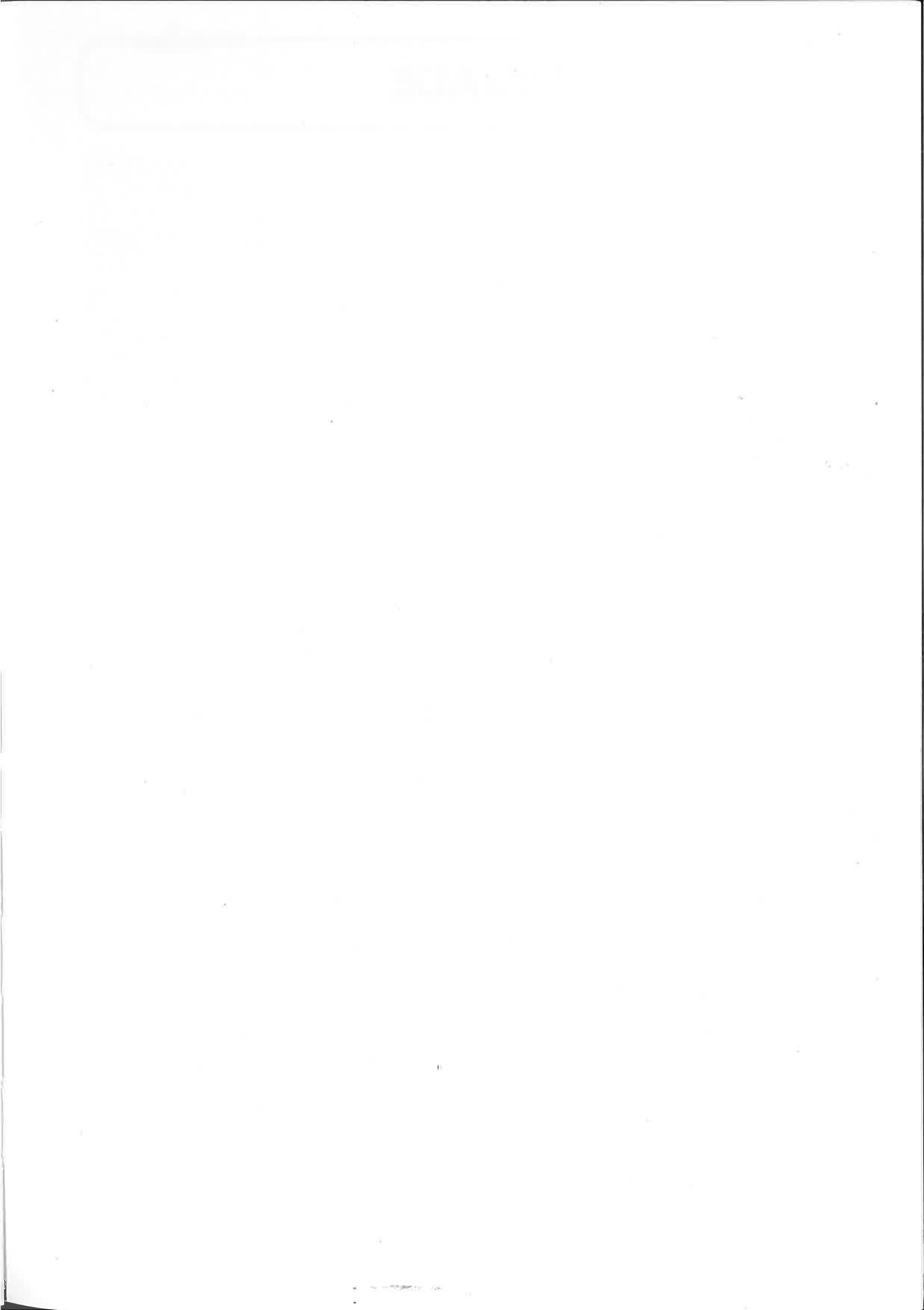
FARFADET



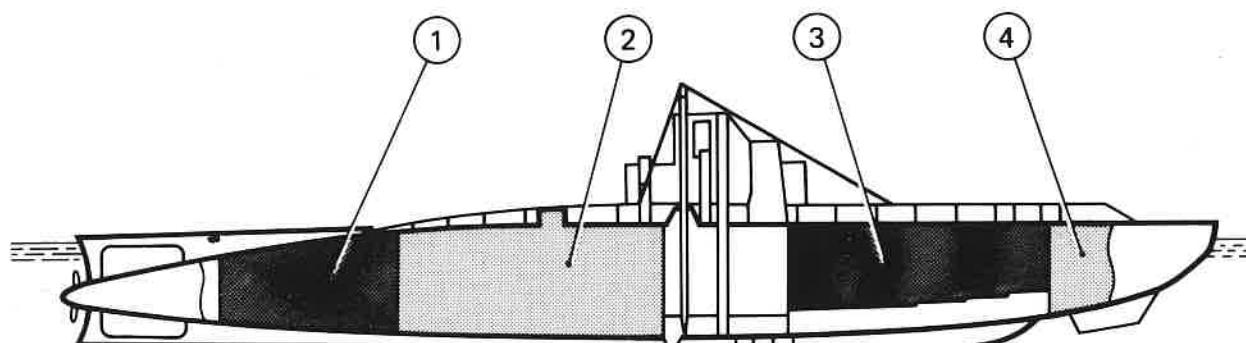
GNOME



LUTIN



NAIADE



KEY

- 1 – Electric motor and steam engine compartment
- 2 – Aft battery
- 3 – Fore battery
- 4 – 120 kg air tank

CHARACTERISTICS

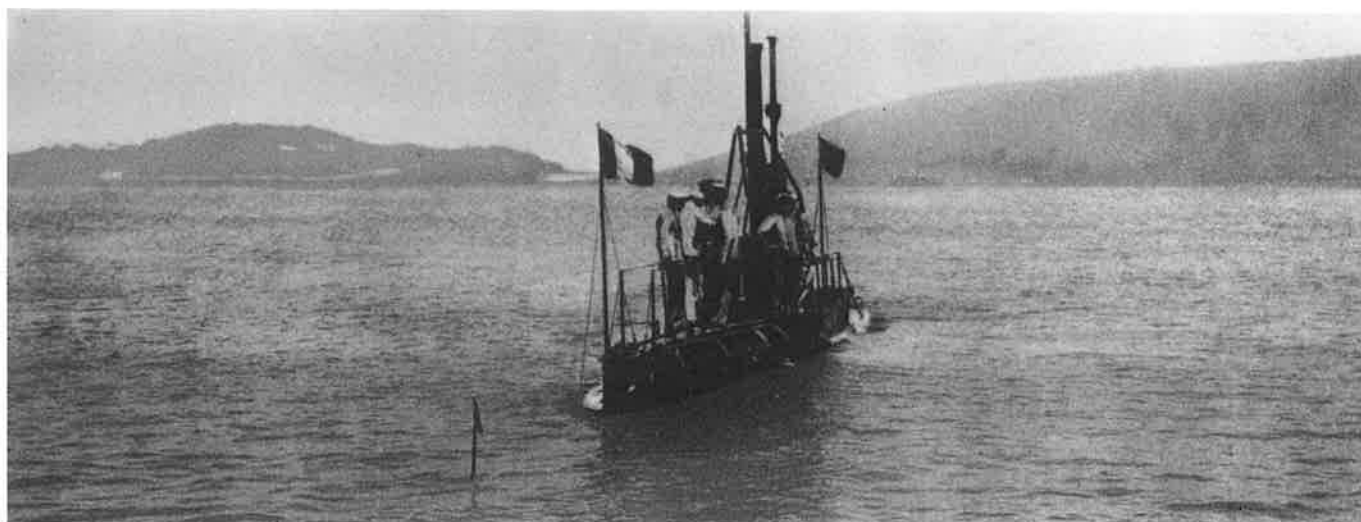
Surface displacement: 70.5 t
 Submerged displacement: 73.6 t
 Length: 23.75 m
 Armament: 2 × 450 external carcass TLs

HISTORICAL DATA

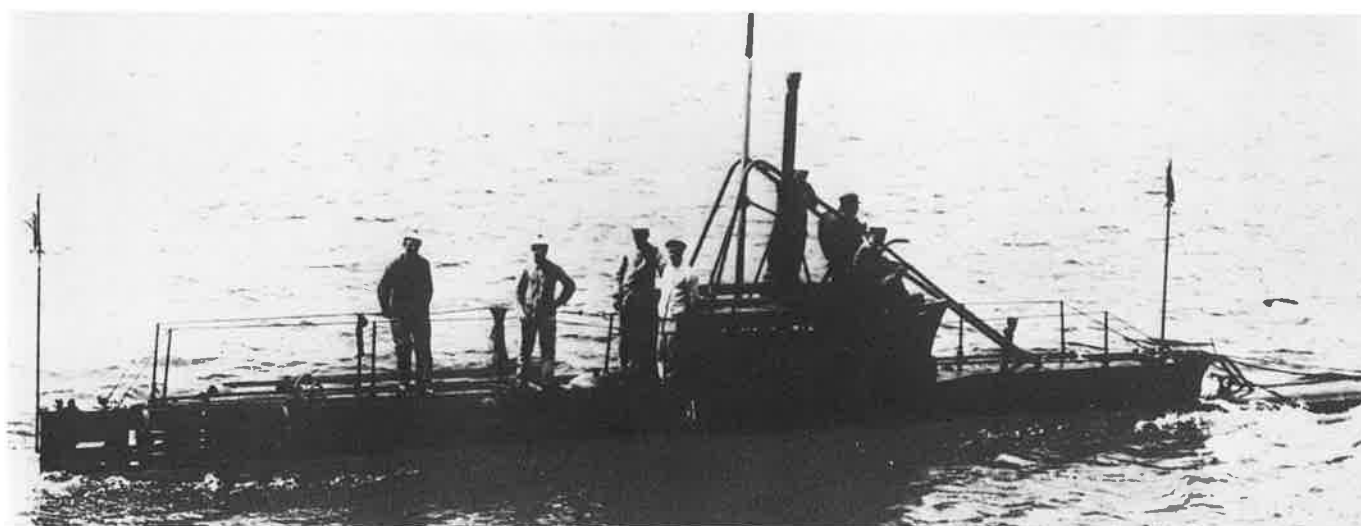
Ordered the 03-04-1901 - Désigner: Ramazotti

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 15	NAIADE	Ch	1902	1904	1906	1914	laid up
Q 16	PROTEE	Ch	1901	1903	1905	1914	laid up
Q 17	PERLE	To	1901	1903	1905	1914	laid up
Q 18	ESTURGEON	To	1902	1904	1906	1912	laid up
Q 19	BONITE	To	1902	1904	1906	1914	laid up
Q 20	THON	To	1902	1904	1906	1914	laid up
Q 21	SOUFFLEUR	To	1901	1903	1905	1914	laid up
Q 22	DORADE	To	1901	1903	1905	1914	laid up
Q 23	LYNX	Ch	1901	1903	1905	1914	laid up
Q 24	LUDION	To	1902	1904	1906	1914	laid up
Q 25	LOUTRE	Ro	1901	1903	1905	1914	laid up
Q 26	CASTOR	Ro	1901	1903	1905	1914	laid up
Q 27	PHOQUE	Ro	1902	1904	1906	1914	laid up
Q 28	OTARIE	Ro	1902	1904	1906	1914	laid up
Q 29	MEDUSE	Ro	1902	1904	1906	1914	laid up
Q 30	OURSIN	Ro	1902	1904	1907	1914	laid up
Q 31	GRONDIN	To	1902	1904	1907	1913	laid up
Q 32	ANGUILLE	To	1902	1904	1907	1914	laid up
Q 33	ALOSE	To	1902	1904	1907	1914	laid up
Q 34	TRUITE	To	1902	1905	1907	1914	laid up

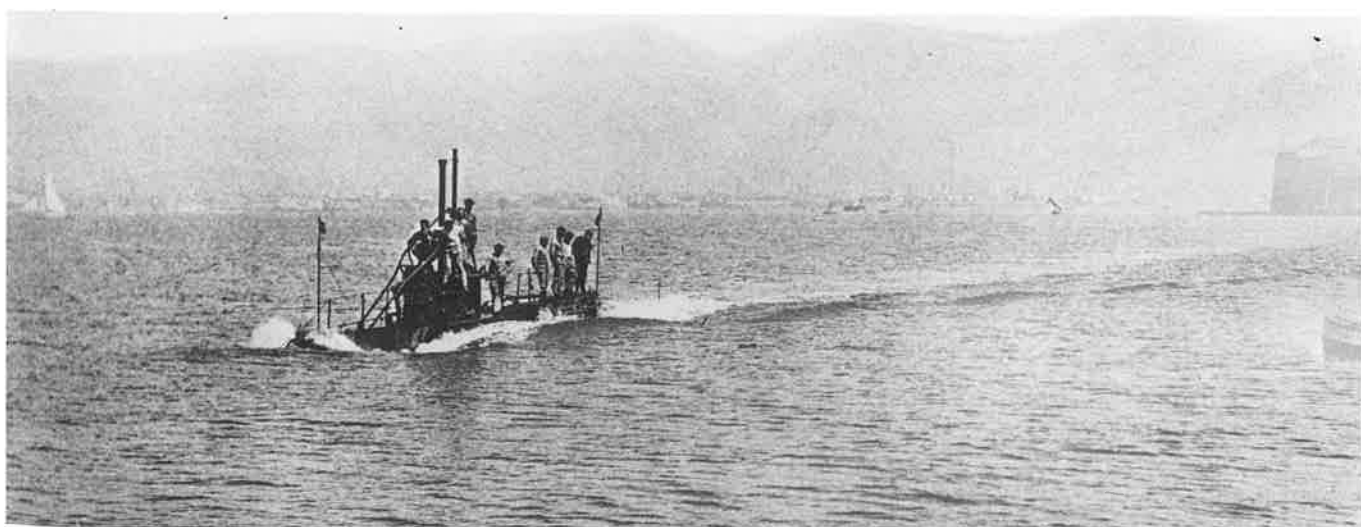
NAÏADE



NAIADE

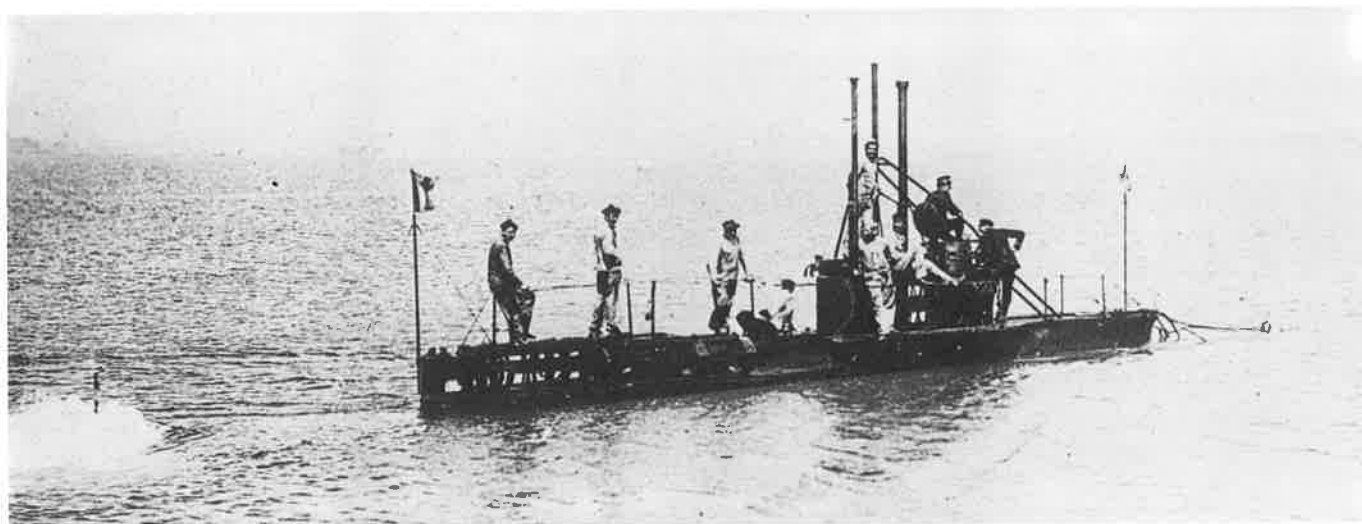


PROTEE



PERLE

NAÏADE



ESTURGEON



BONITE



THON

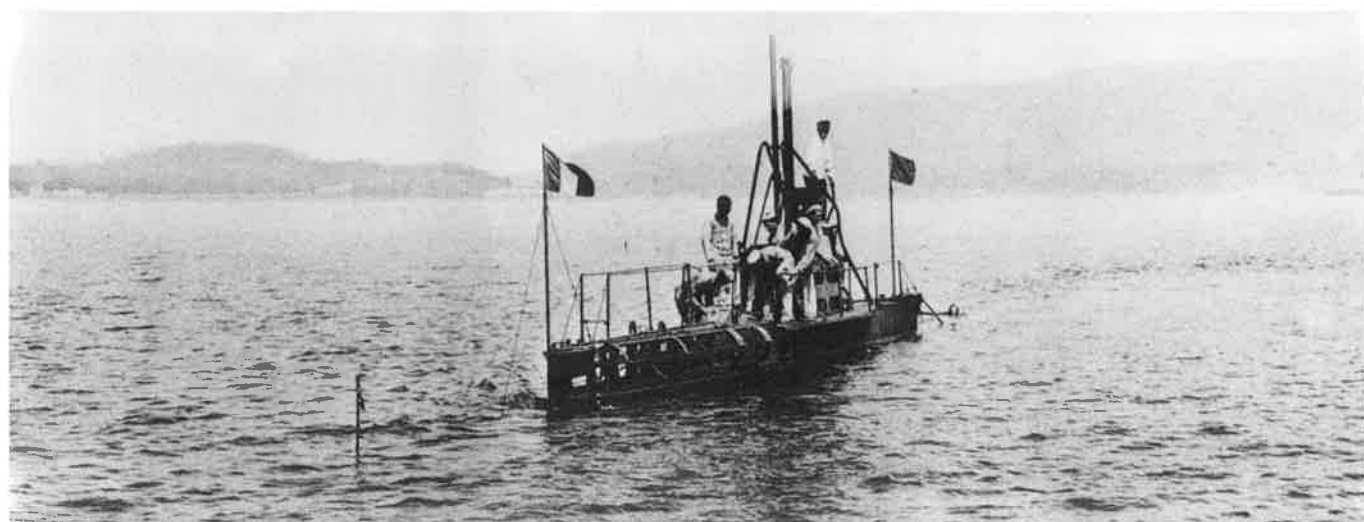
NAÏADE



SOUFFLEUR



DORADE

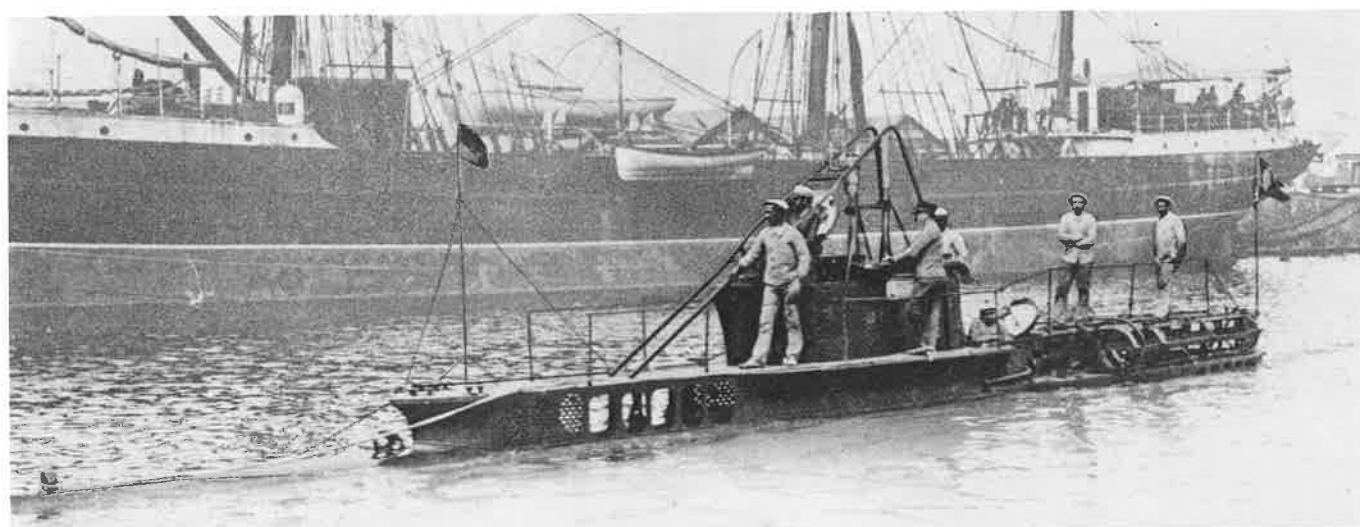


LYNX

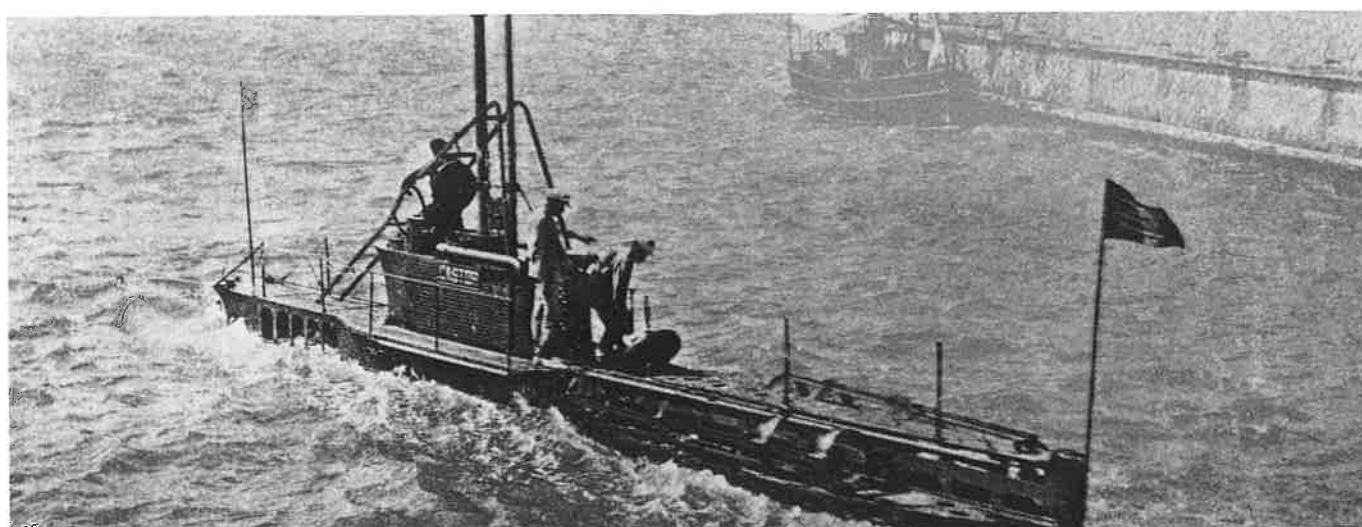
NAÏADE



LUDION

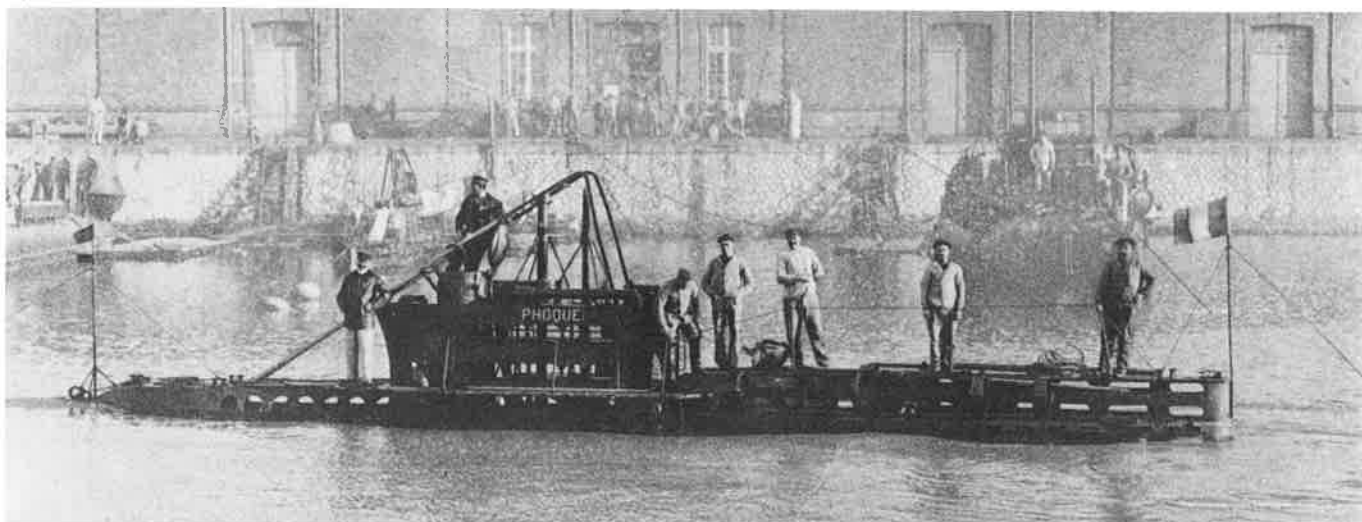


LOUTRE



CASTOR

NAÏADE



PHOQUE



PHOQUE ET OTARIE



MEDUSE

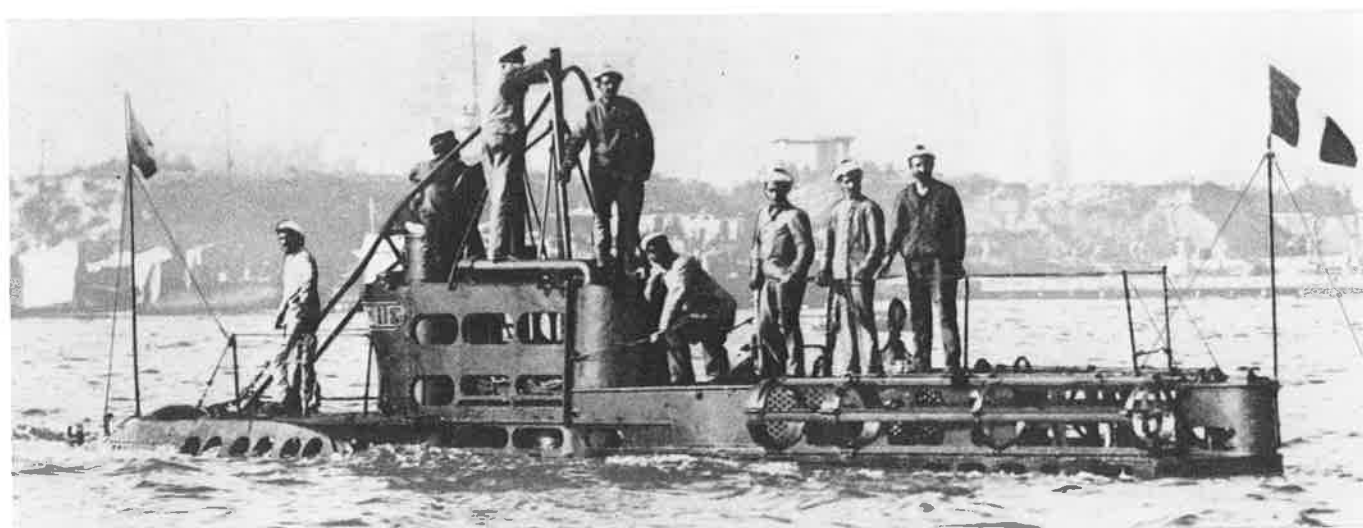
NAÏADE



OURSIN



GRONDIN

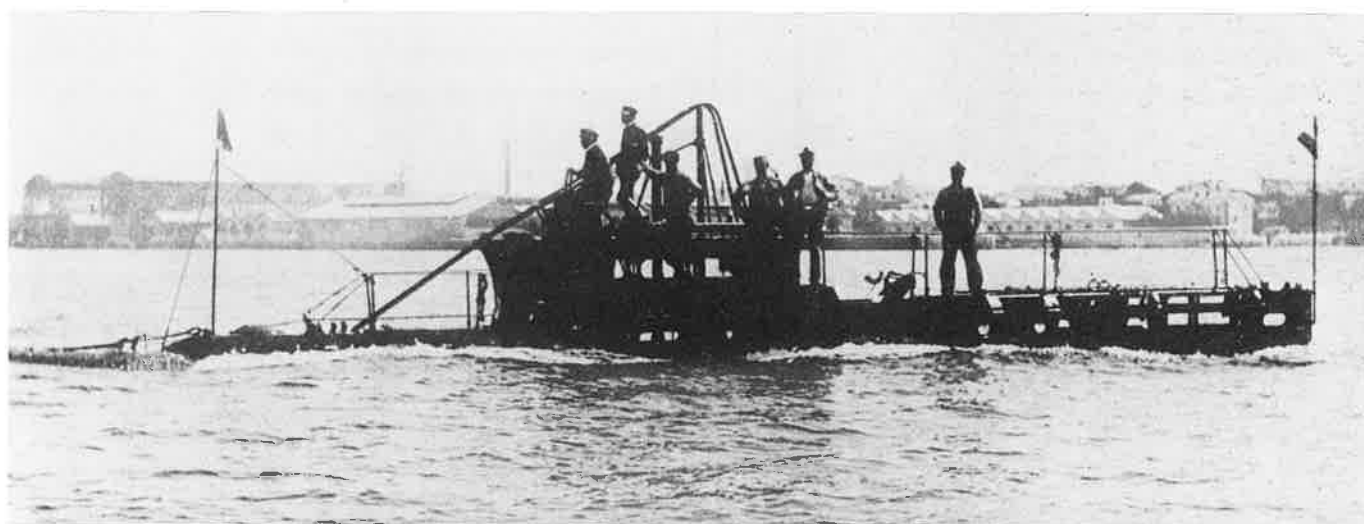


ANGUILLE

NAÏADE



ALOSE



TRUITE



X (DAUPHIN)

KEY

- Electric motor
- Steam engine
- Batteries

CHARACTERISTICS

Surface displacement: 168 t
 Submerged displacement: 179 t
 Length: 37.70 m
 Armament: 1 BTT
 2 Drzw

HISTORICAL DATA

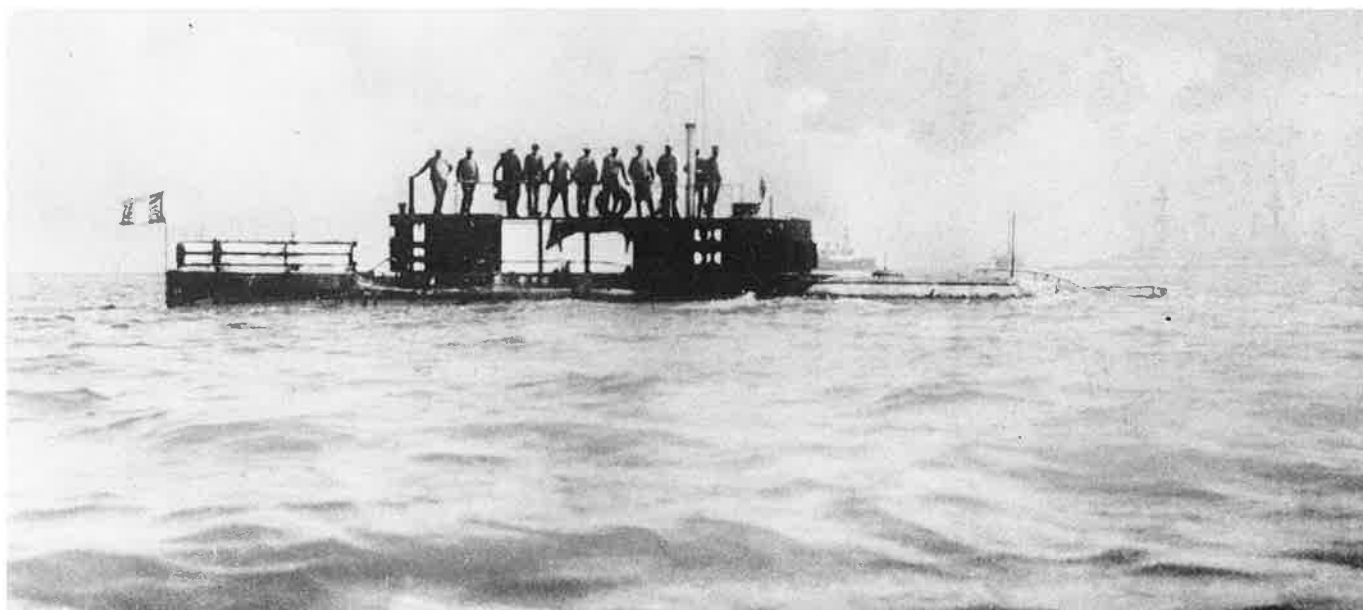
Experimental submarine, the first with 2 propellers, became DAUPHIN on 13-02-1911.

Ordered the 10-01-1902 - Designer: Romazotti.

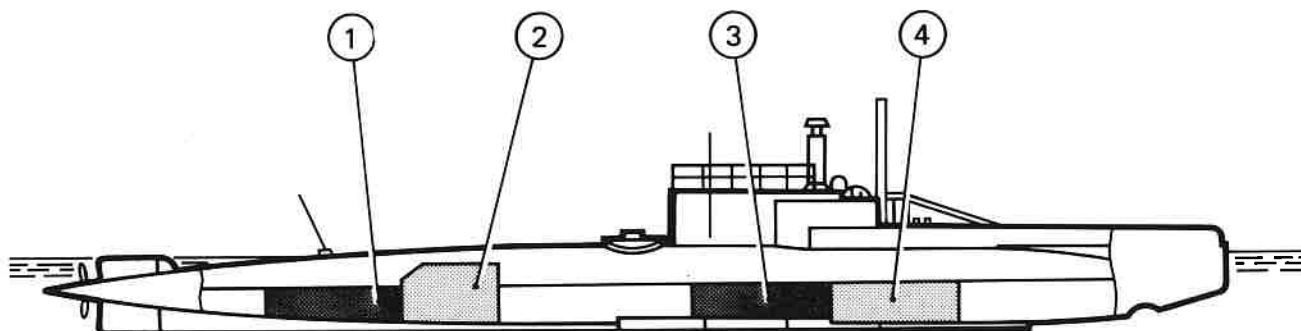
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 35	X (DAUPHIN)	Ch	1903	1904	1907	1914	laid up



X (DAUPHIN)



X (DAUPHIN)



KEY

- 1 – Electric motor
- 2 – Steam engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 202 t
 Submerged displacement: 222 t
 Length: 41.35 m
 Armament: 2 x 450 fore tandem
 TLs

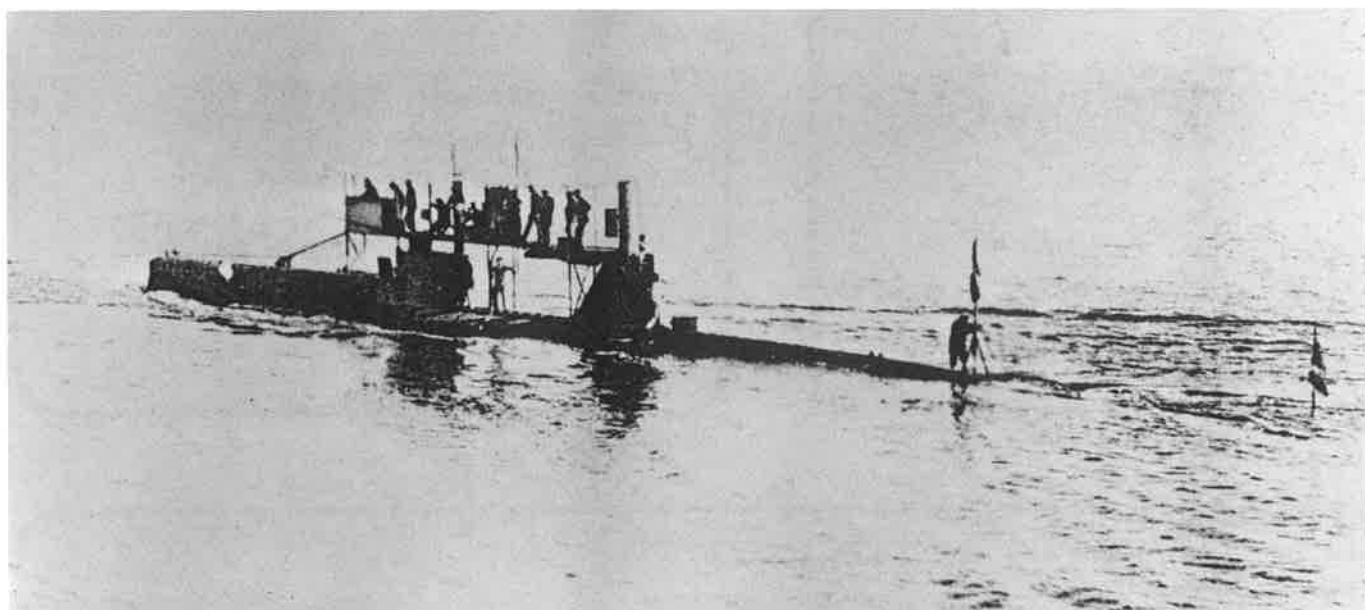
HISTORICAL DATA

Experimental submarine.

Ordered the 10-06-1901 - Designer; Maugas.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 36	Z	Ro	1902	1904	1905	1910	laid up

Z



Z

CLASS

Y



KEY

– Single steam engine

CHARACTERISTICS

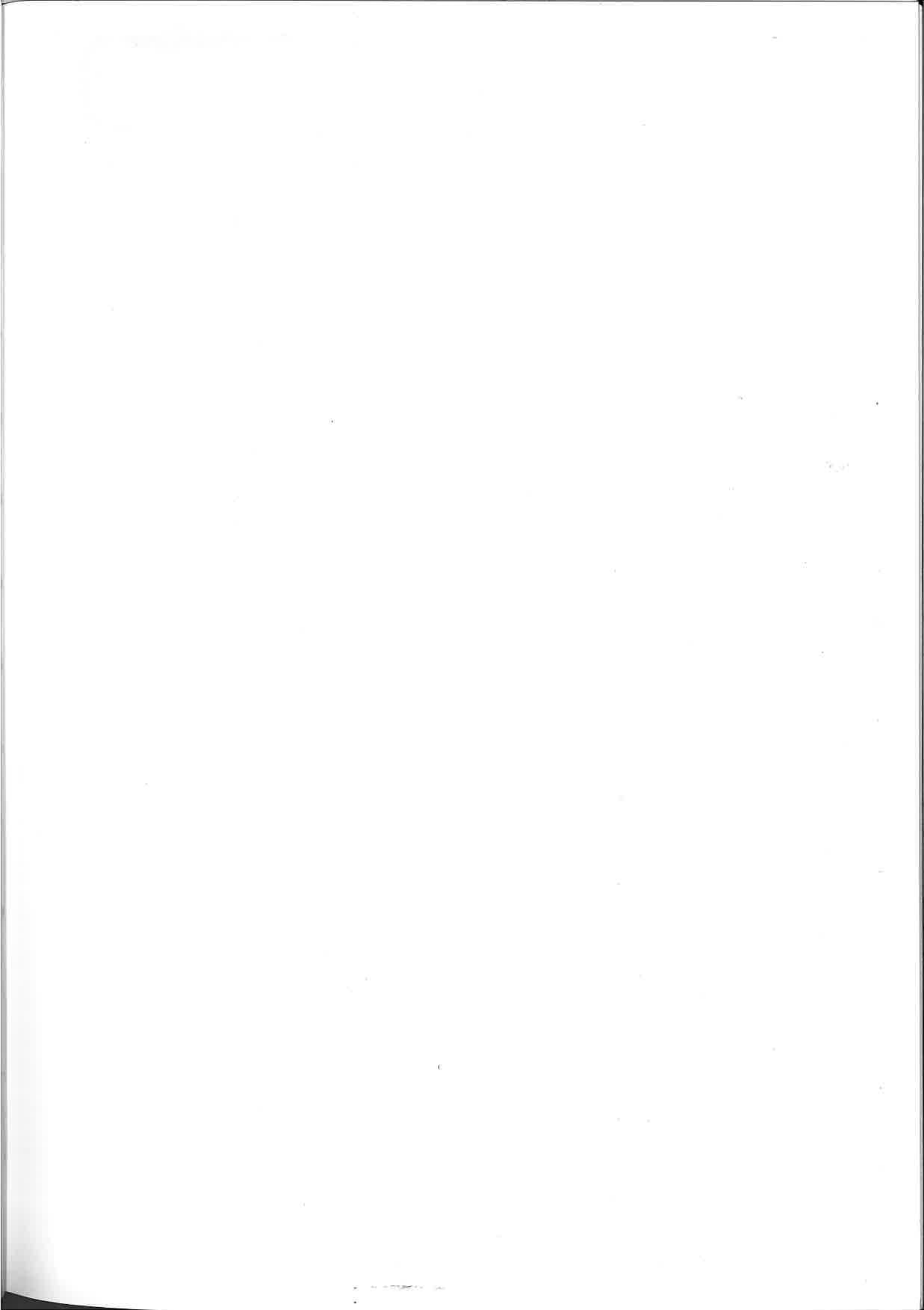
Surface displacement: 213 t
Submerged displacement: 226 t
Length: 44.90 m
Armament: 2 superposed BTTs
2 Drzw TLs

HISTORICAL DATA

Experimental submarine.

Ordered the 12-08-1901 - Designer: Bertin.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 37	Y	To	1902	1905	Tests were never completed		
						1909	



AIGRETTE



KEY

- Electric motor
- Diesel engine
- Batteries

CHARACTERISTICS

Surface displacement: 178 t
 Submerged displacement: 253 t
 Length: 35.85 m
 Armament: 2 × Drzw TLs
 2 × 450 carcass TLs

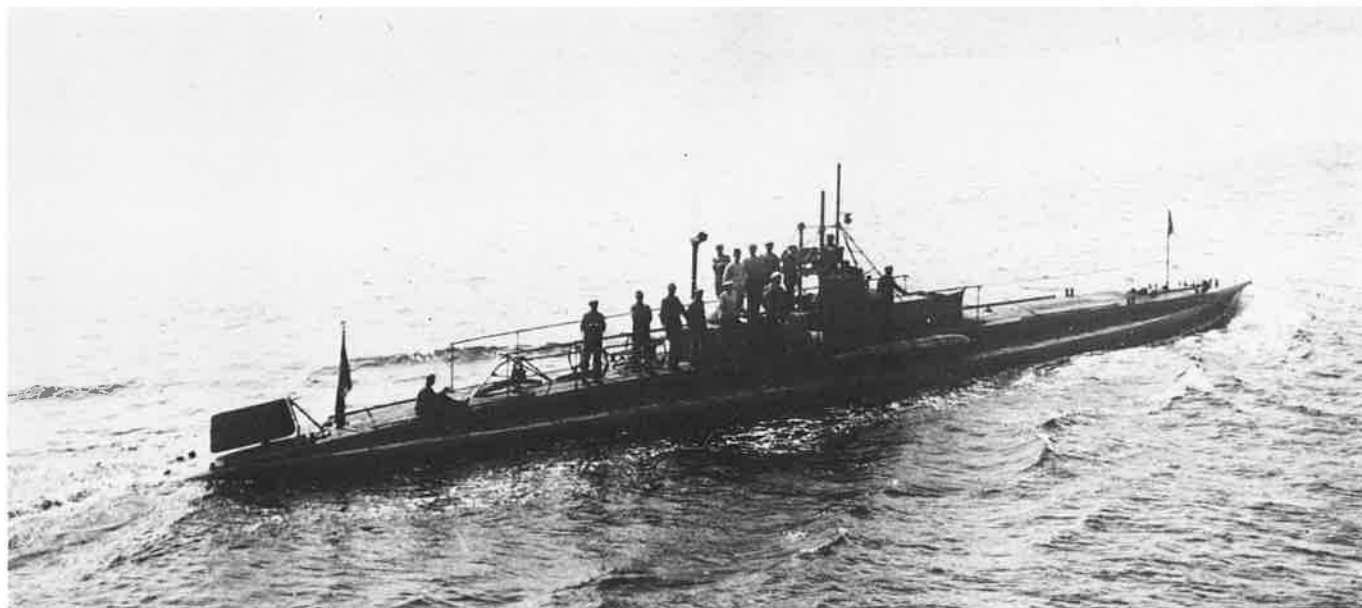
HISTORICAL DATA

Ordered the 13-05-1902 - Designer: Laubeuf.

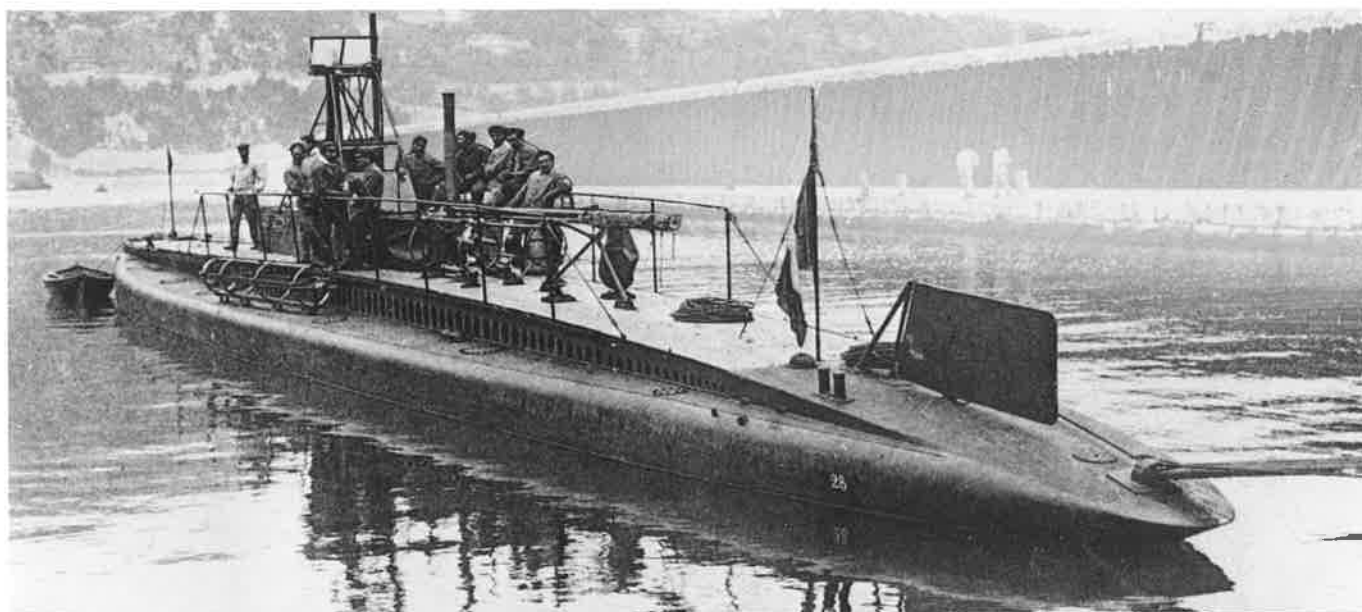
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 38	AIGRETTE	To	1902	1904	1906	1919	laid up
Q 39	CIGOGNE	To	1902	1904	1908	1919	laid up



AIGRETTE



AIGRETTE



CIGOGNE

ARGONAUTE



KEY

- Electric motor
- Steam engine
- Batteries

CHARACTERISTICS

Surface displacement: 305 t
 Submerged displacement: 400 t
 Length: 47 m
 Armament: 2 BTTs
 4 × 450 TLs including
 2 Drzw

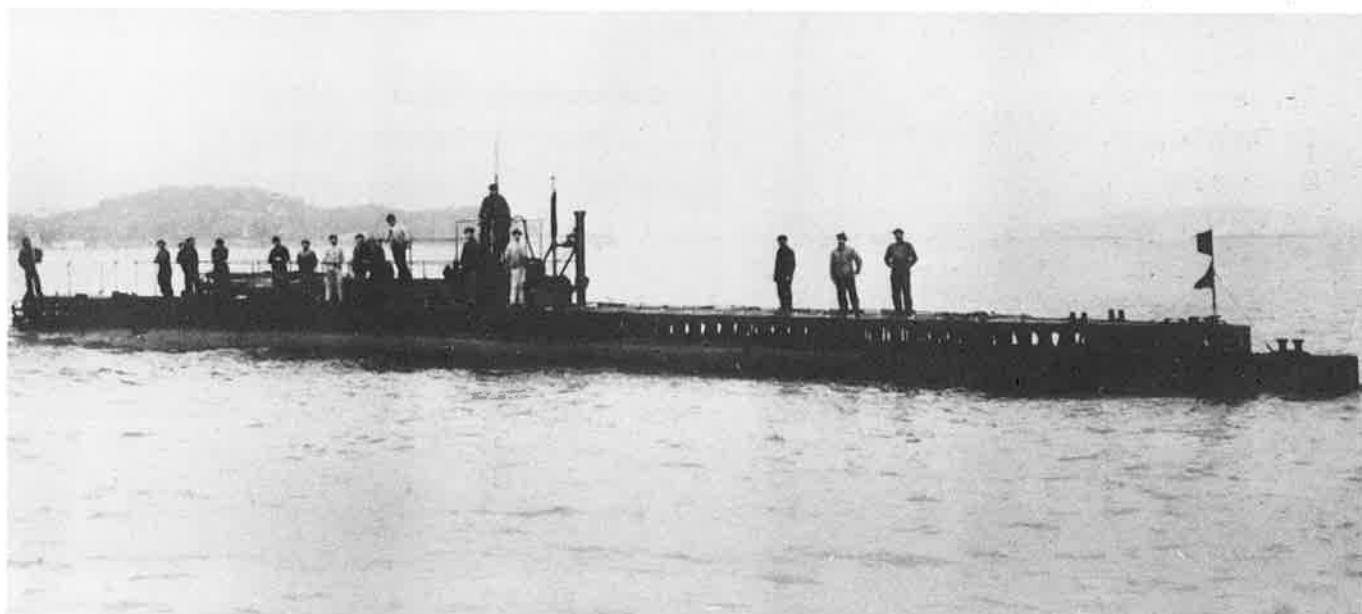
HISTORICAL DATA

Experimental submarine, the ARGONAUTE was called OMEGA until 27-09-1910.
 Ordered the 26-01-1903 - Designers: Bertin and Petithomme.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 40	ARGONAUTE	To	1903	1905	1911	1919	laid up

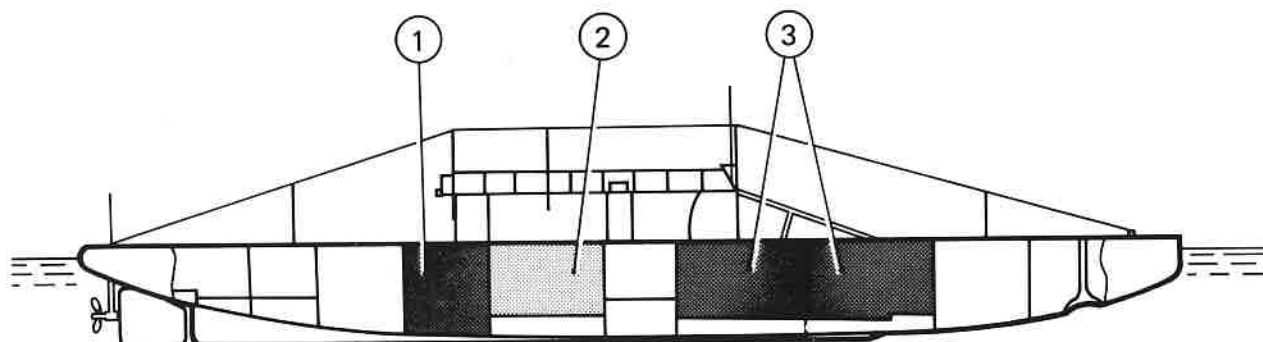


ARGONAUTE



ARGONAUTE

EMERAUDE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

CHARACTERISTICS

Surface displacement: 392 t
 Submerged displacement: 425 t
 Length: 44.65 m
 Armament: 4 × 450 TTs
 + 2 spare torpedoes

HISTORICAL DATA

Ordered the 24-11-1903 - Designer: Maugas

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 41	EMERAUDE	Ch	1903	1906	1908	1919	laid up
Q 42	OPALE	Ch	1903	1906	1909	1919	laid up
Q 43	RUBIS	Ch	1903	1907	1909	1919	laid up
Q 44	SAPHIR	To	1903	1908	1910	1915	sunk
Q 45	TOPAZE	To	1903	1908	1910	1919	laid up
Q 46	TURQUOISE	To	1903	1908	1910	1915	sunk

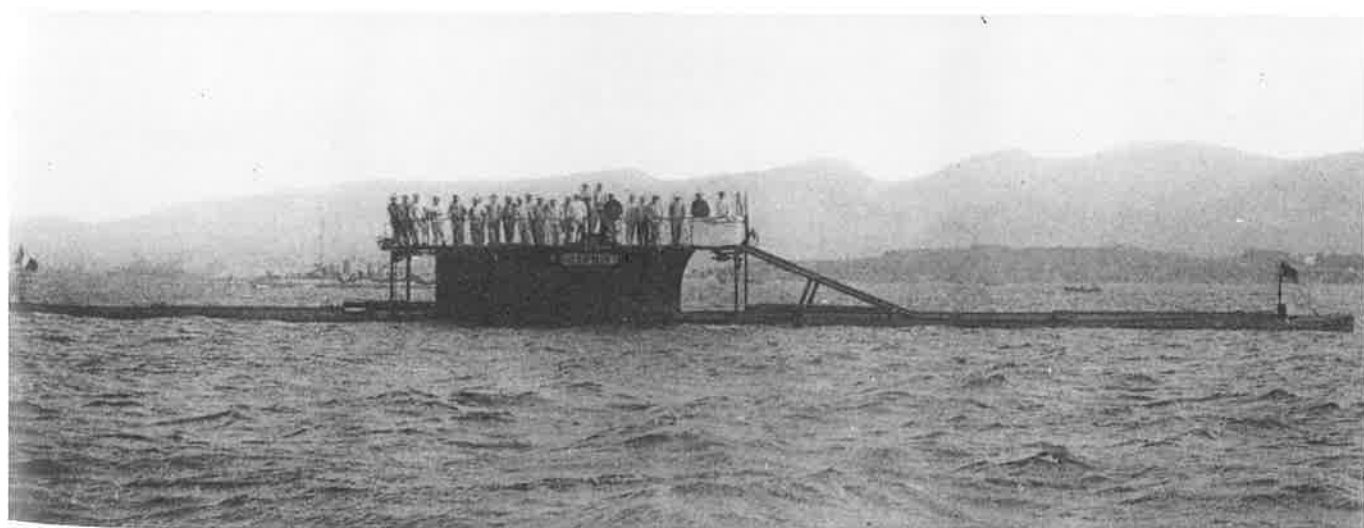
EMERAUDE



EMERAUDE

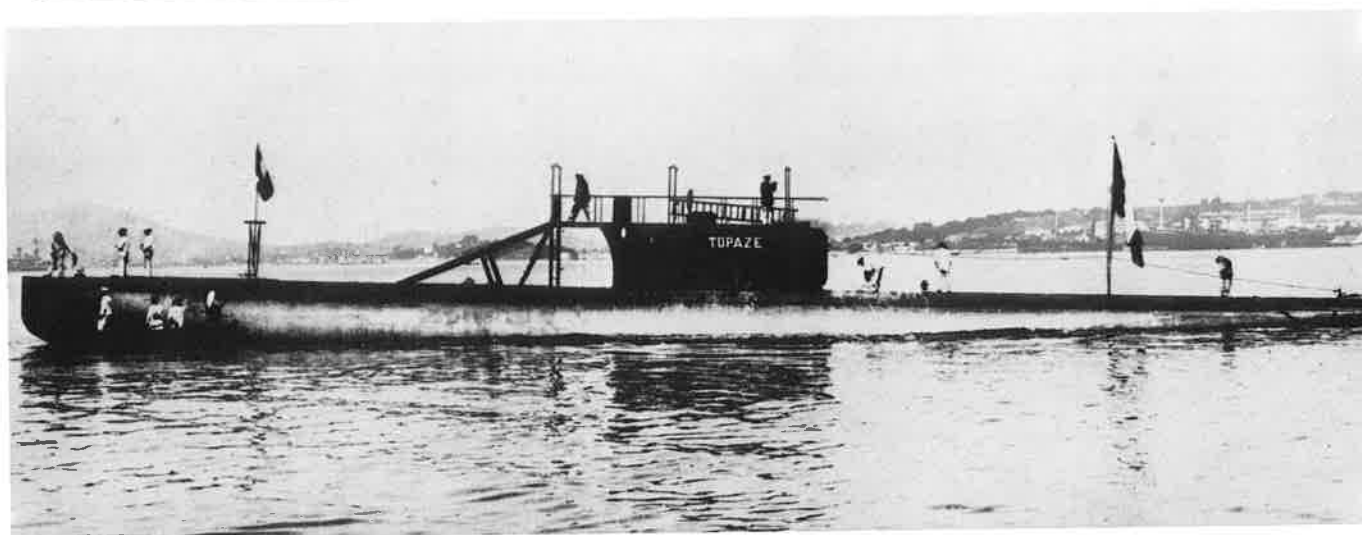


OPALE

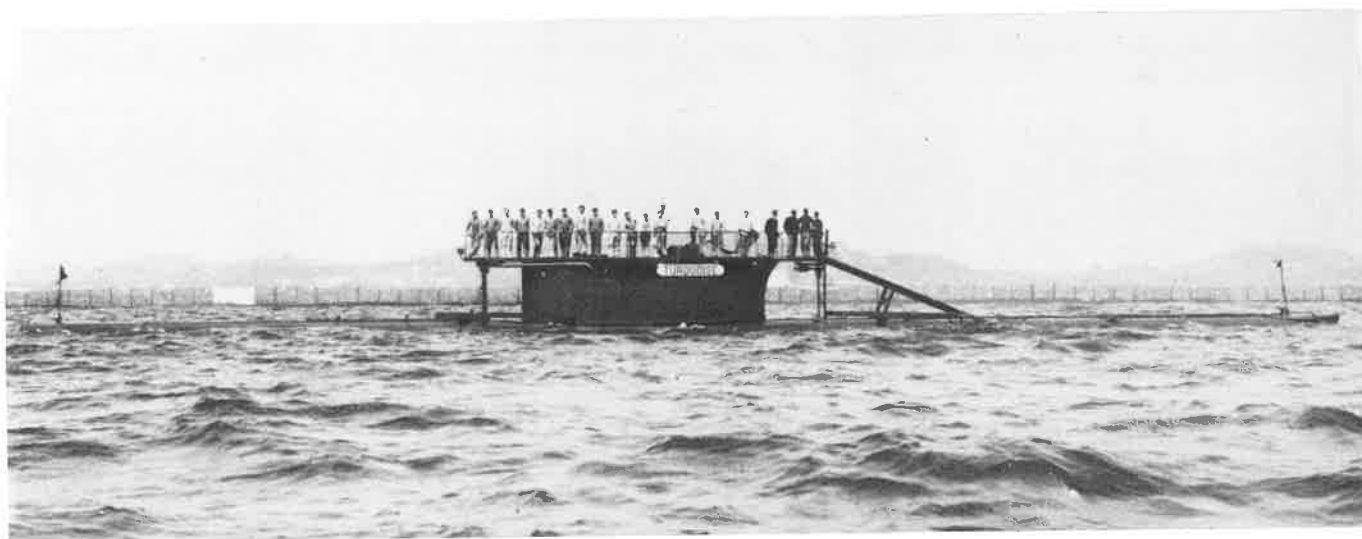


SAPHIR

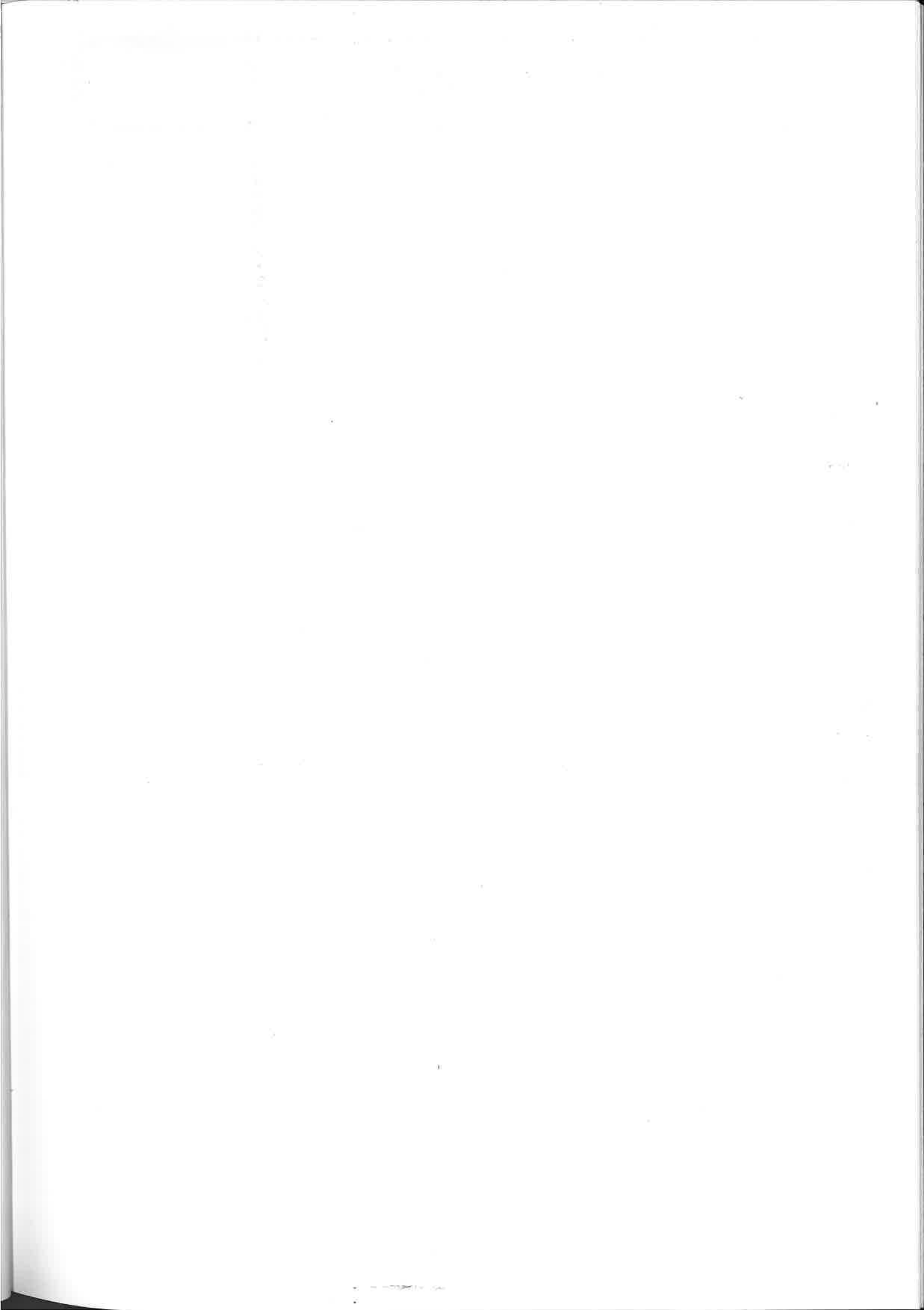
EMERAUDE



TOPAZE



TURQUOISE



CLASS

CIRCE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

CHARACTERISTICS

Surface displacement: 352 t
 Submerged displacement: 498 t
 Length: 46.18 m
 Armament: 6 × 450 TLs

HISTORICAL DATA

Ordered the 08-10-1904 - Designer: Laubeuf

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 47	CIRCE CALYPSO	To	1904	1907	1909	1918	sunk
Q 48		To	1905	1907	1909	1914	sunk (collided by CIRCE)

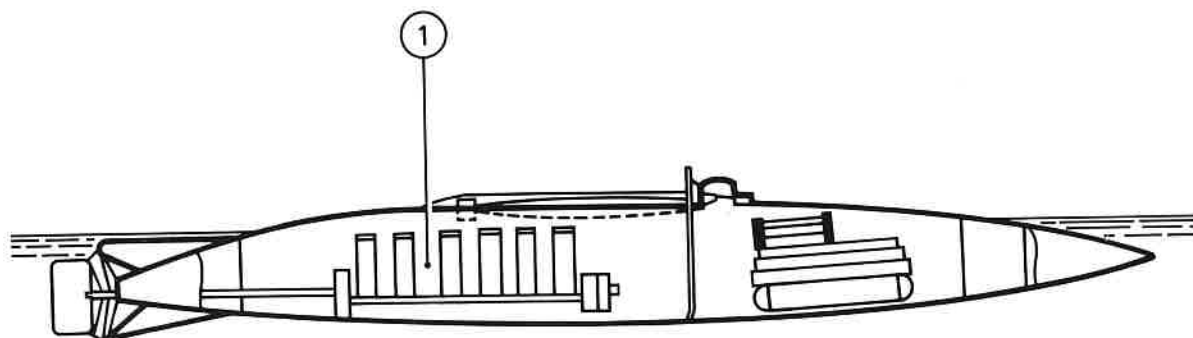
CIRCE



CIRCE

CLASS

GUEPE I



KEY

1 – Diesel engine

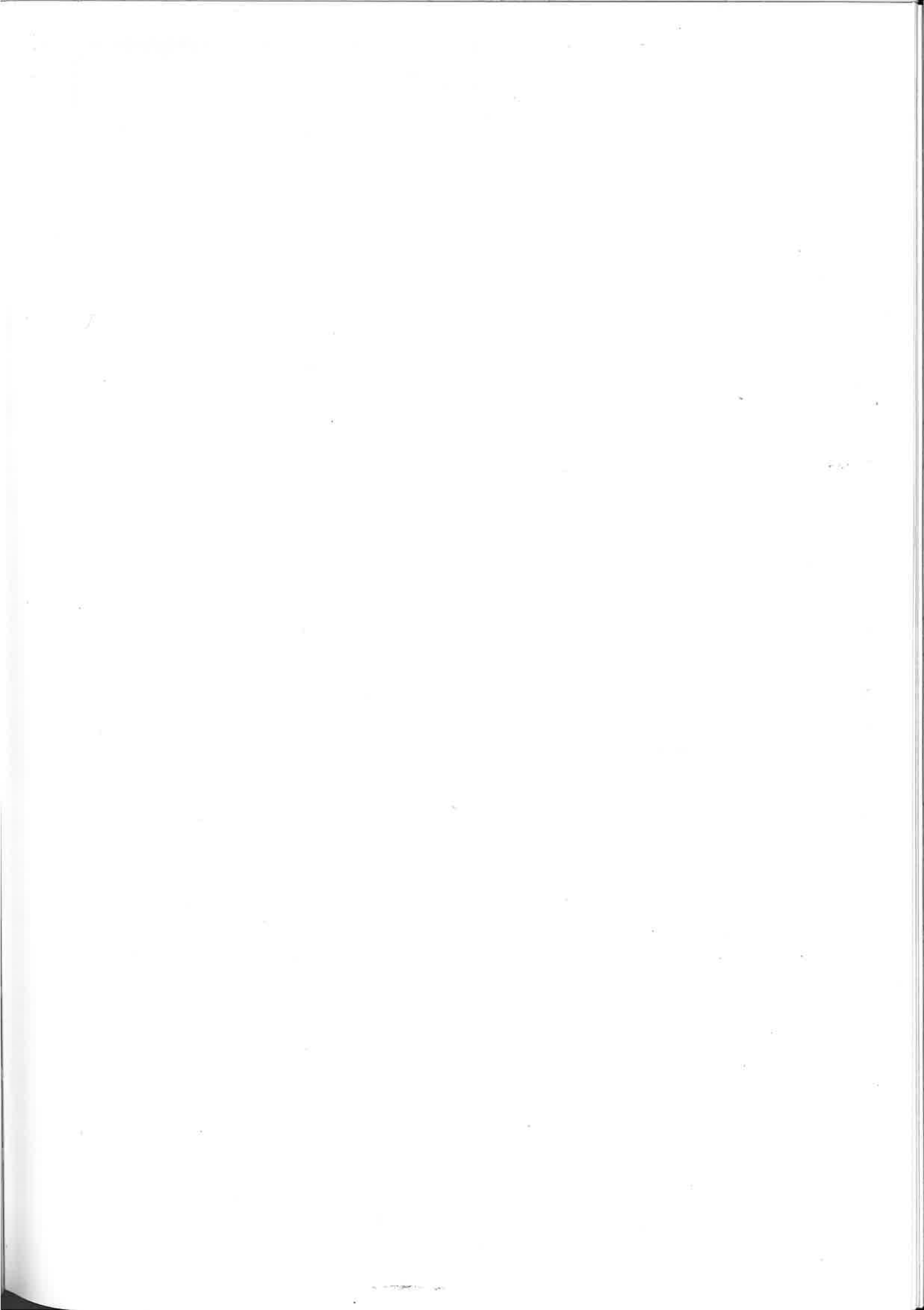
CHARACTERISTICS

Surface displacement: 45 t
 Submerged displacement: 50 t
 Length: 20.55 m
 Armament: 2 × 450 Drzw

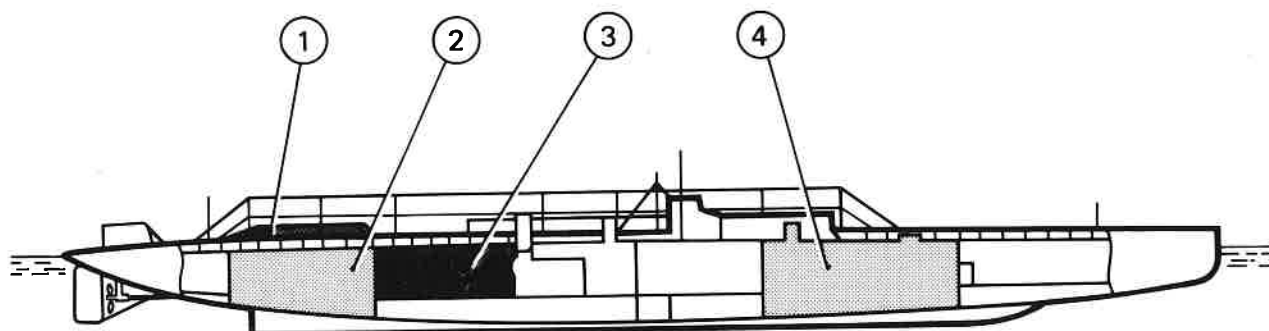
HISTORICAL DATA

Ordered the 08-10-1904 - Designer: Petithomme.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 49 Q 50	GUEPE I GUEPE II	— —	1904 1904		Building stopped in 1908		



PLUVIOSE



KEY

- 1 – Electric motor
- 2 – Steam engine
- 3 – Batteries

CHARACTERISTICS

Surface displacement: 404 t
 Submerged displacement: 553 t
 Length: 50.75 m
 Armament: 6 × 450 TTs
 able to fire
 in all directions

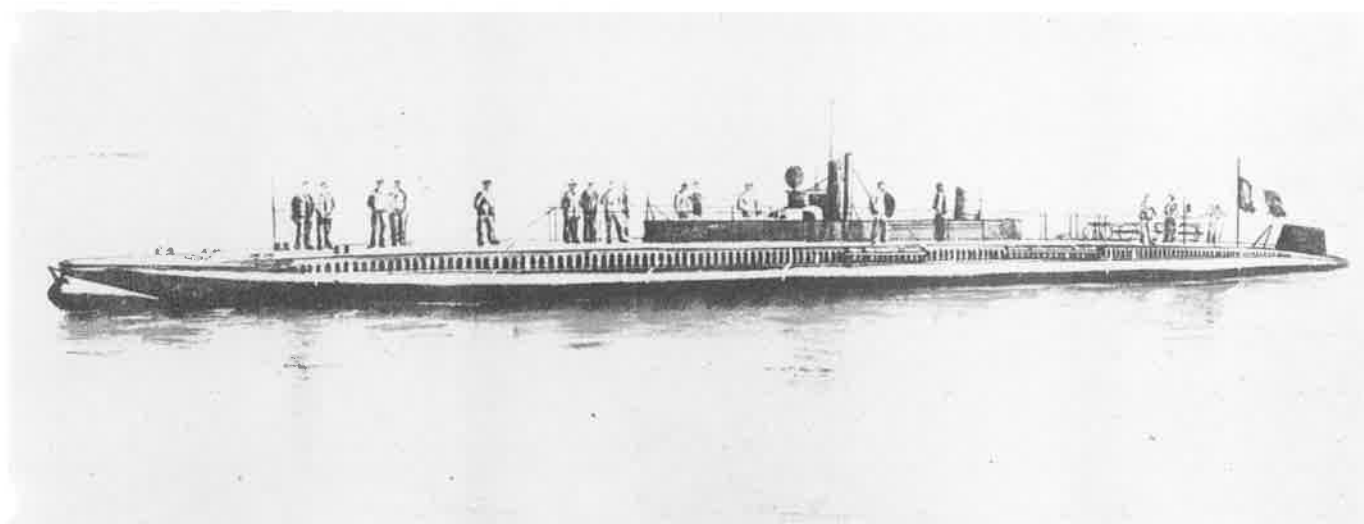
HISTORICAL DATA

Ordered the 26-08-1906 - Designer: Laubeuf

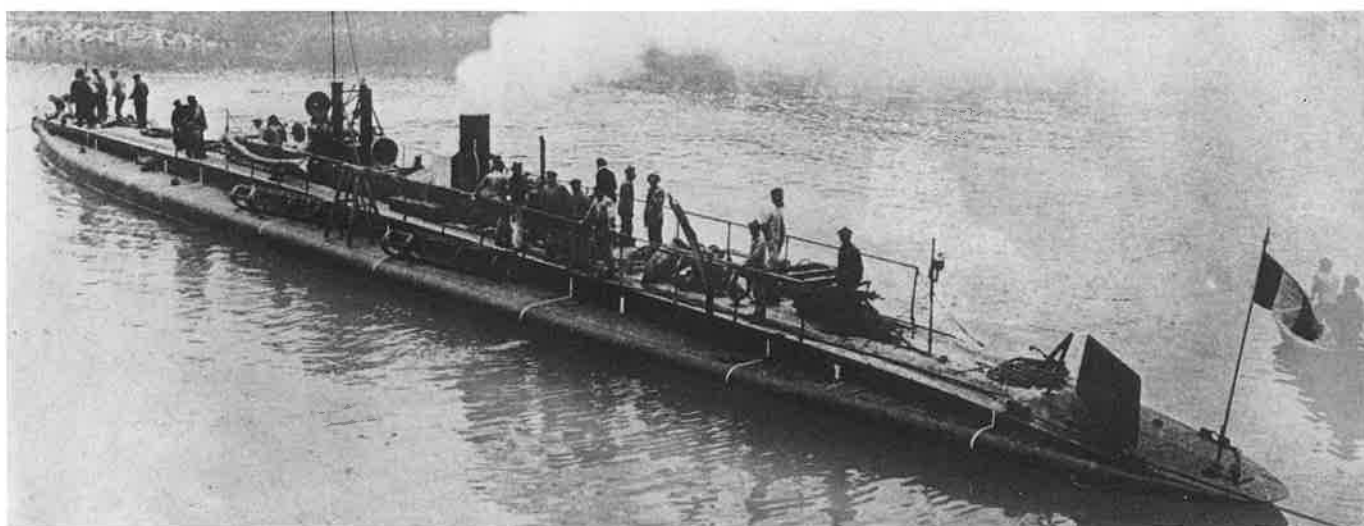
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 51	PLUVIOSE	Ch	1906	1907	1908	1919	laid up
Q 52	VENTOSE	Ch	1906	1907	1908	1919	laid up
Q 53	GERMINAL	Ch	1906	1907	1908	1919	laid up
Q 54	FLOREAL	Ch	1906	1908	1909	1918	sunk
Q 55	PRAIRIAL	Ch	1906	1908	1909	1918	sunk
Q 56	MESSIDOR	Ch	1906	1908	1909	1919	laid up
Q 57	THERMIDOR	Ch	1906	1909	1910	1919	laid up
Q 58	FRUCTIDOR	Ch	1906	1909	1910	1919	laid up
Q 59	VENDEMIARE	Ch	1906	1910	1911	1912	sunk
Q 64	PAPIN	Ro	1906	1908	1909	1919	laid up
Q 65	FRESNEL	Ro	1906	1908	1909	1915	sunk
Q 66	BERTHELOT	Ro	1906	1909	1910	1919	laid up
Q 67	MONGE	To	1906	1908	1909	1915	sunk
Q 68	AMPERE	To	1906	1909	1910	1919	laid up
Q 69	GAY LUSSAC	To	1906	1910	1911	1919	laid up
Q 75	WATT	Ro	1906	1909	1910	1919	laid up
Q 76	GUGNOT	Ro	1906	1909	1910	1919	laid up
Q 77	GIFFARD	Ro	1906	1910	1911	1919	laid up



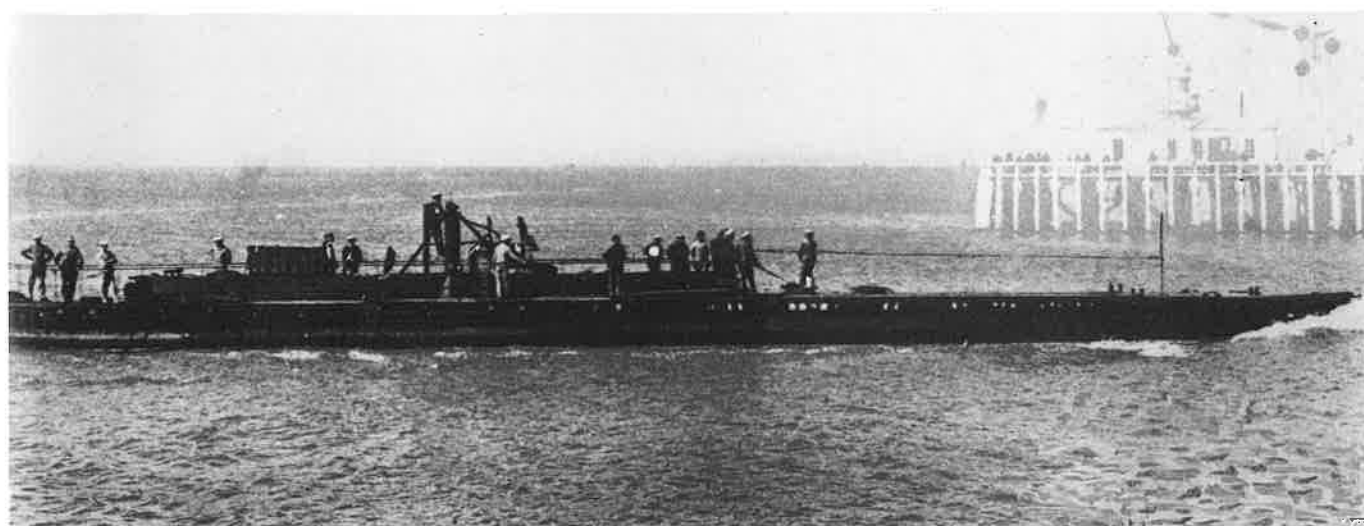
PLUVIOSE



PLUVIOSE



VENTOSE



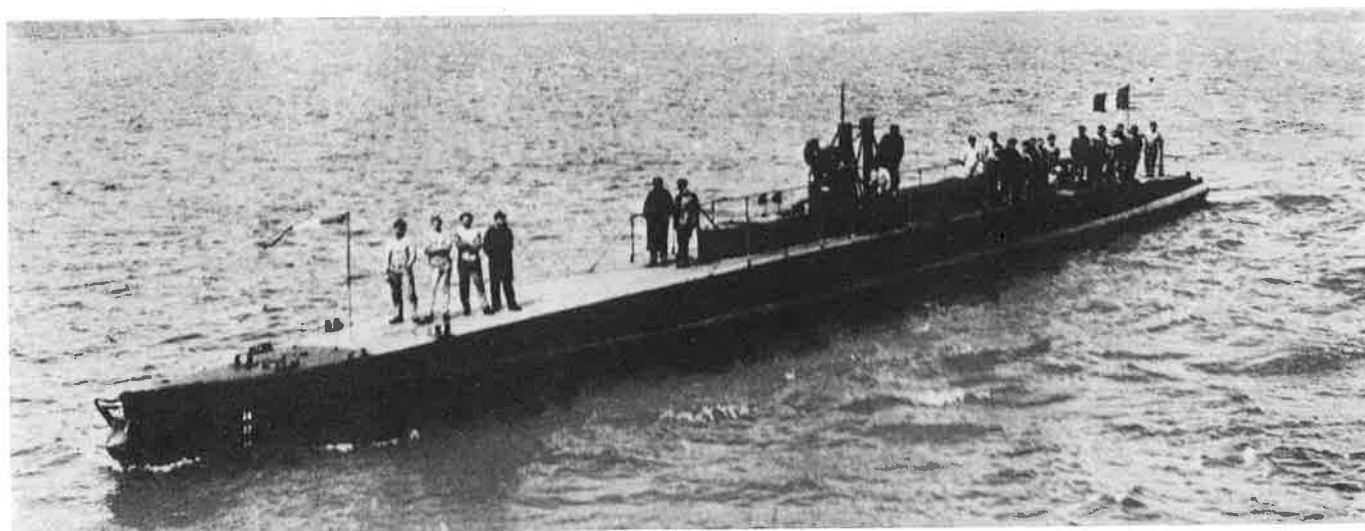
GERMINAL



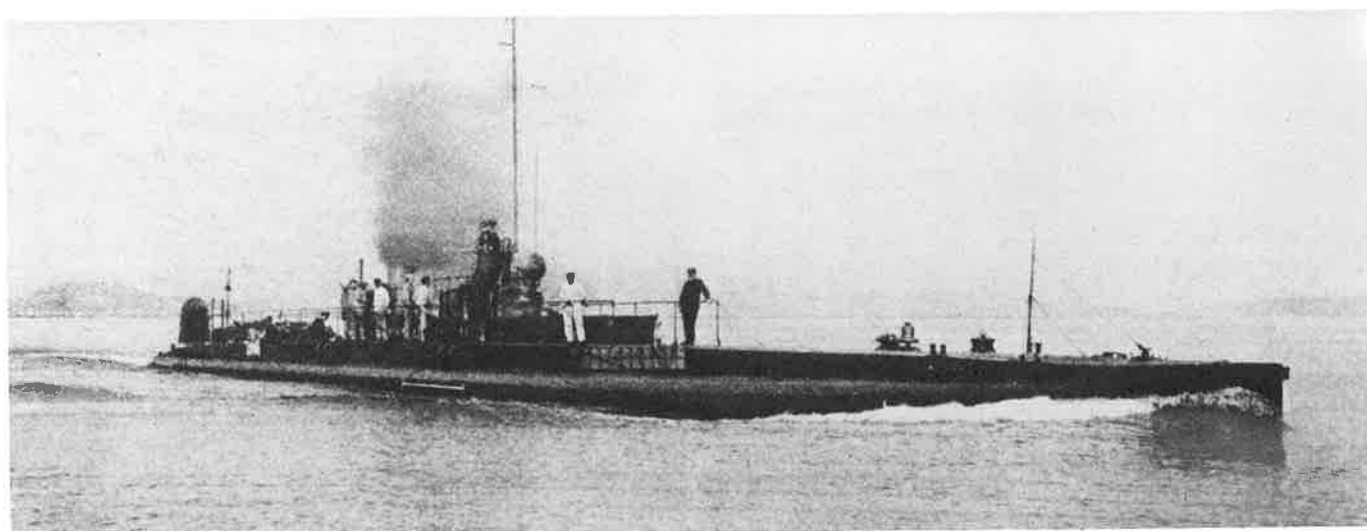
PLUVIOSE



FLOREAL

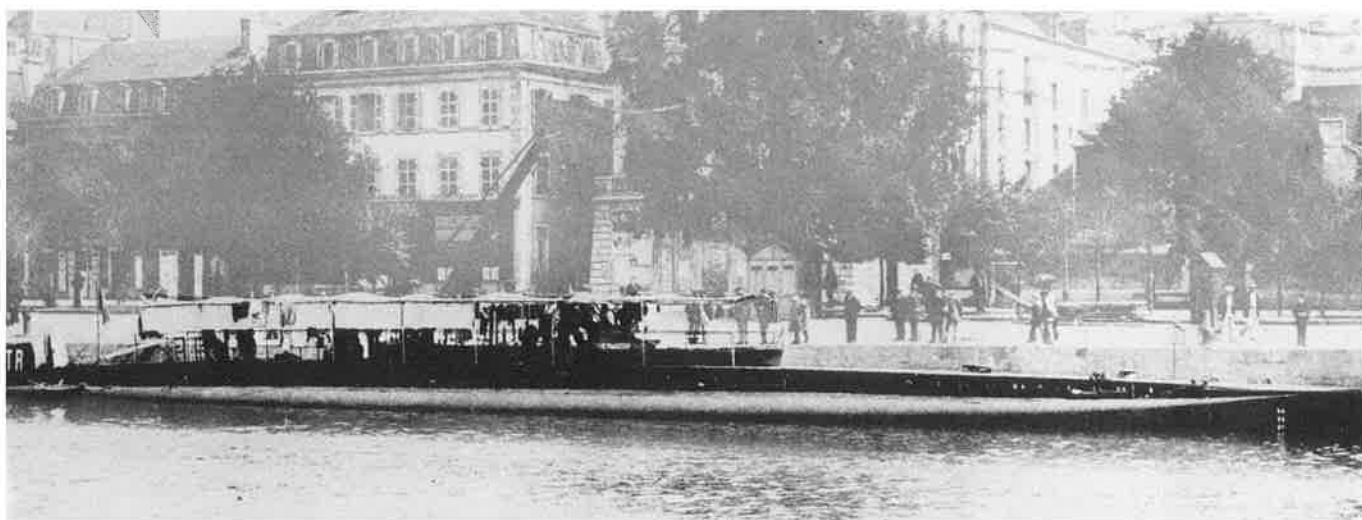


PRAIRIAL



MESSIDOR

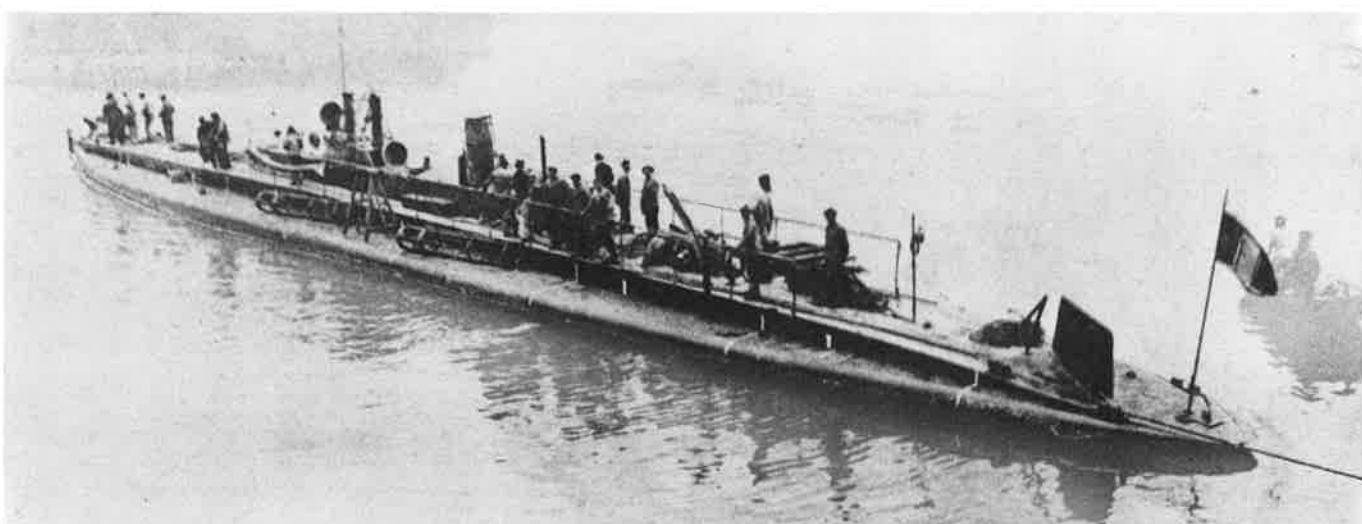
PLUVIOSE



THERMIDOR



FRUCTIDOR

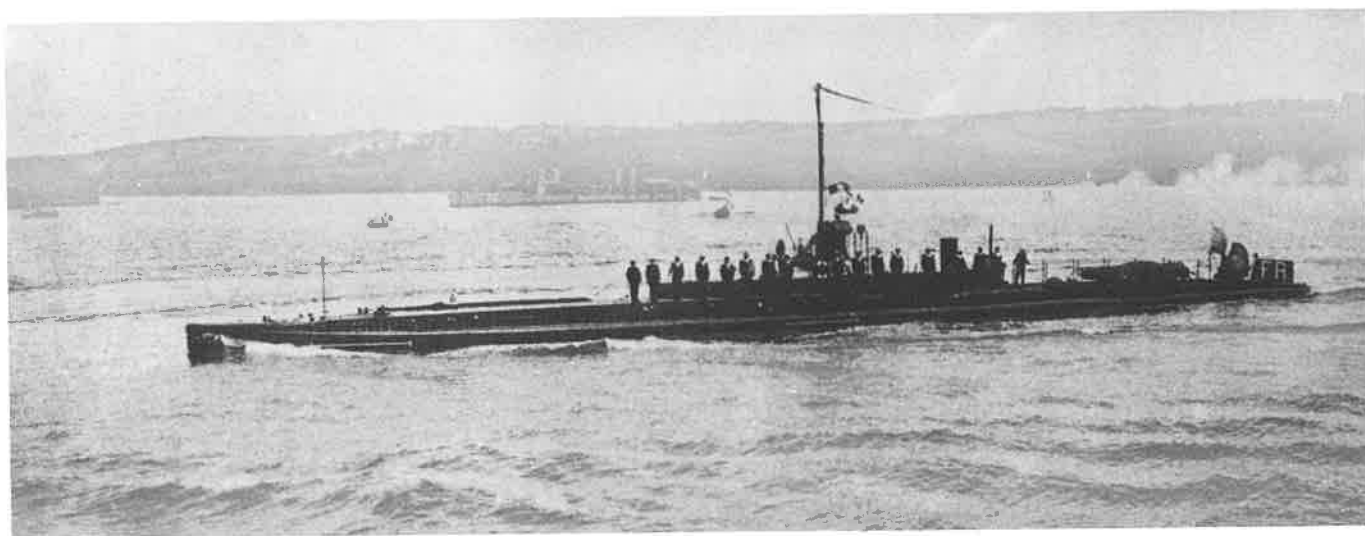


VENDEMAIRE

PLUVIOSE



PAPIN



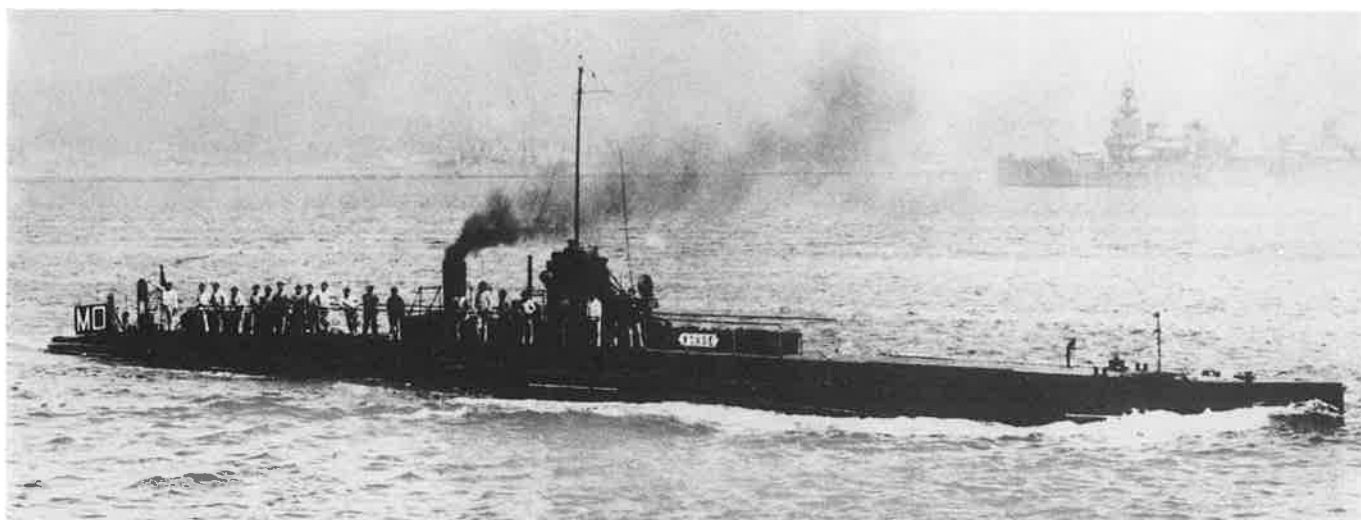
FRESNEL



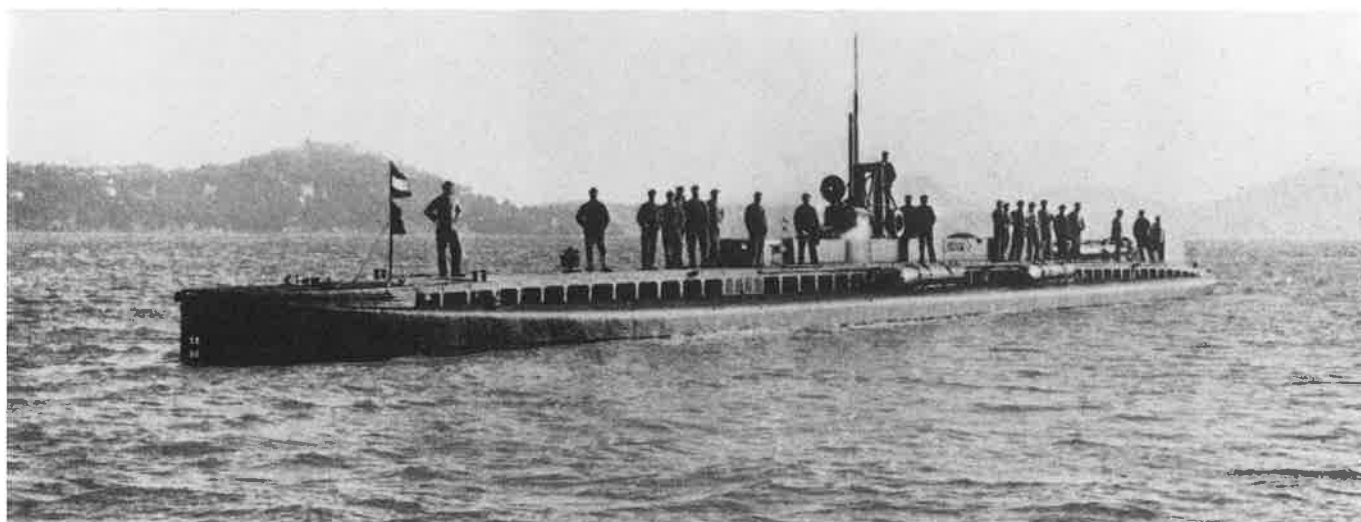
WATT ET BERTHELOT



PLUVIOSE



MONGE



AMPERE



GAY-LUSSAC

PLUVIOSE



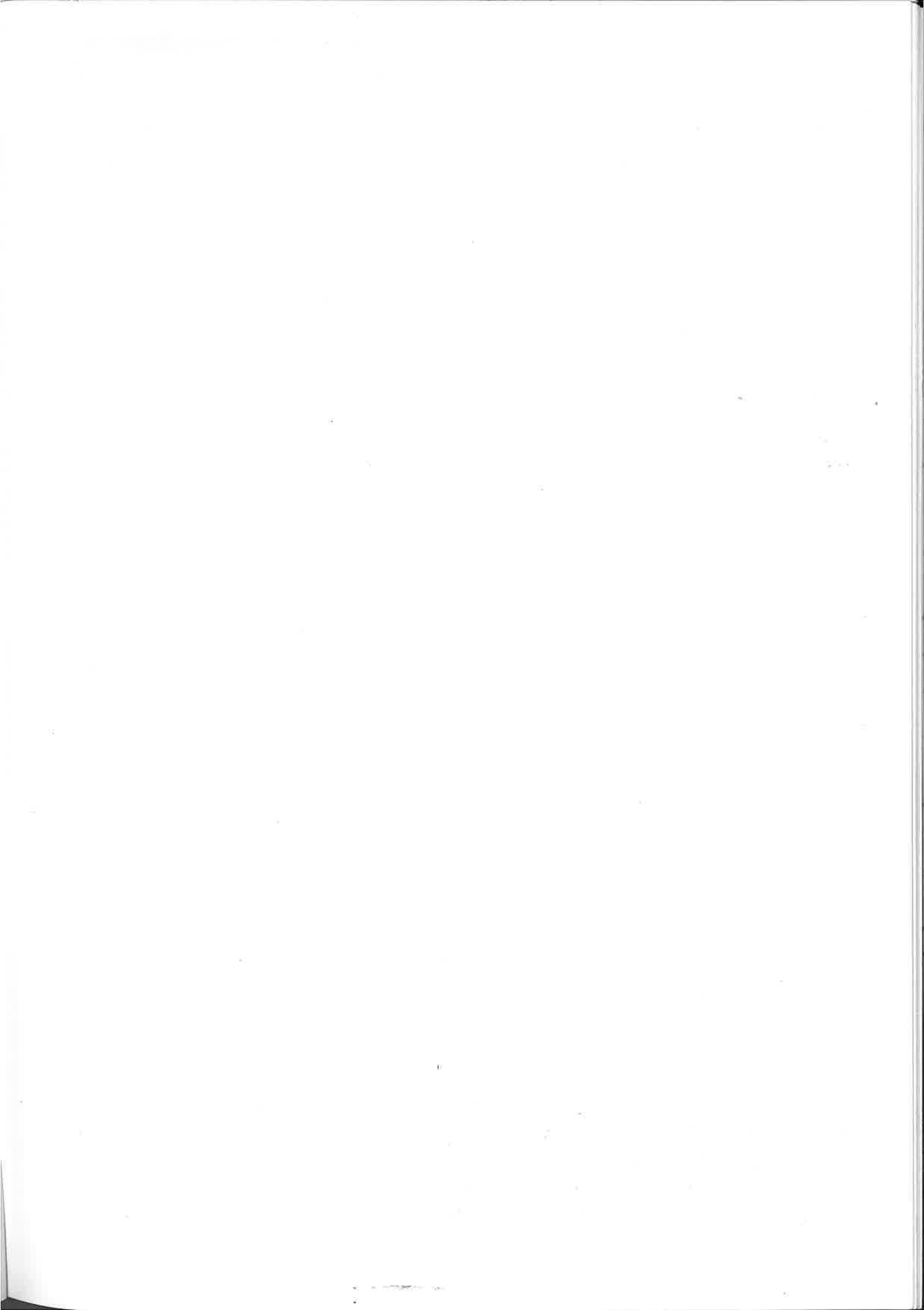
WATT



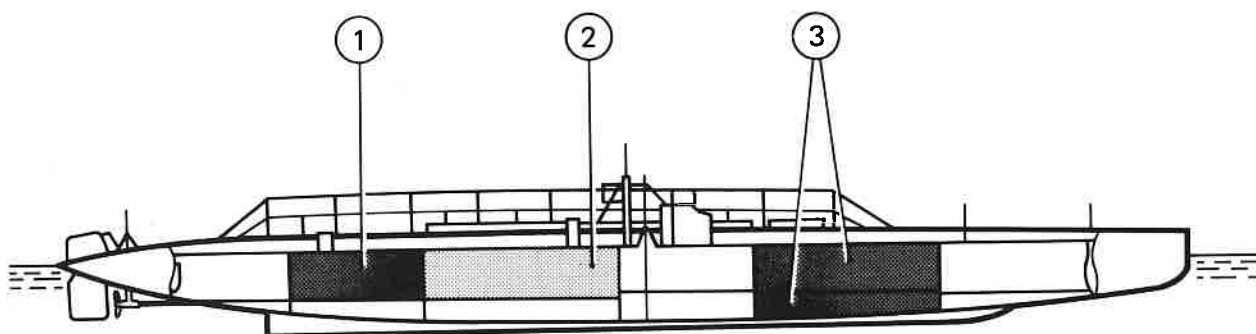
CUGNOT



GIFFARD



BRUMAIRE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

CHARACTERISTICS

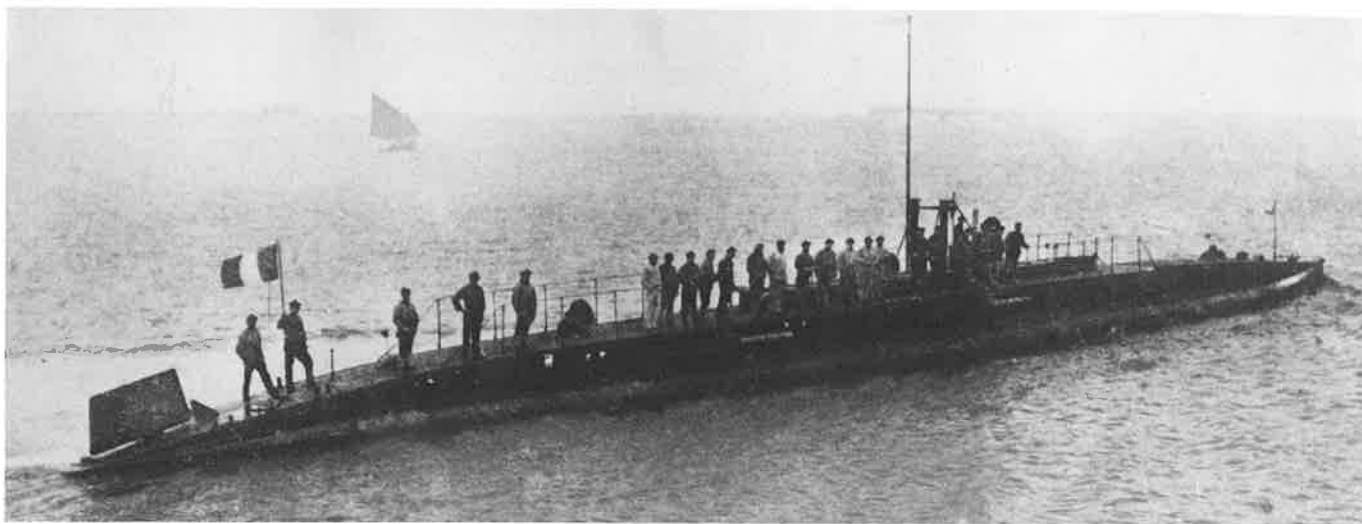
Surface displacement: 398 t
 Submerged displacement: 551 t
 Length: 52.15 m
 Armament: 1 × 450 BTT
 6 × 450 TTs

HISTORICAL DATA

Q 60, Q 62, Q63 ordered the 26-08-1906, the others 01-11-1906 - Designer: Laubeuf.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 60	BRUMAIRE	Ch	1906	1911	1912	1930	laid up
Q 62	FRIMAIRE	Ch	1906	1911	1912	1919	laid up
Q 63	NIVOSE	Ch	1907	1912	1912	1919	laid up
Q 70	FOUCAULT	Ch	1907	1912	1913	1916	sunk
Q 71	EULER	Ch	1907	1912	1913	1922	laid up
Q 72	FRANKLIN	Ch	1907	1913	1914	1920	laid up
Q 78	FARADAY	Ro	1906	1911	1912	1919	laid up
Q 79	VOLTA	Ro	1906	1911	1912	1919	laid up
Q 80	NEWTON	Ro	1907	1912	1913	1926	laid up
Q 81	MONGOLFIER	Ro	1907	1912	1913	1921	laid up
Q 83	BERNOUILLI	To	1906	1911	1912	1918	sunk
Q 84	JOULE	To	1906	1911	1912	1915	sunk
Q 85	COULOMB	To	1907	1912	1913	1919	laid up
Q 86	ARAGO	To	1907	1912	1913	1919	laid up
Q 87	CURIE	To	1907	1912	1914	1928	laid up
Q 88	LE VERRIER	To	1907	1912	1914	1925	laid up

BRUMAIRE



BRUMAIRE



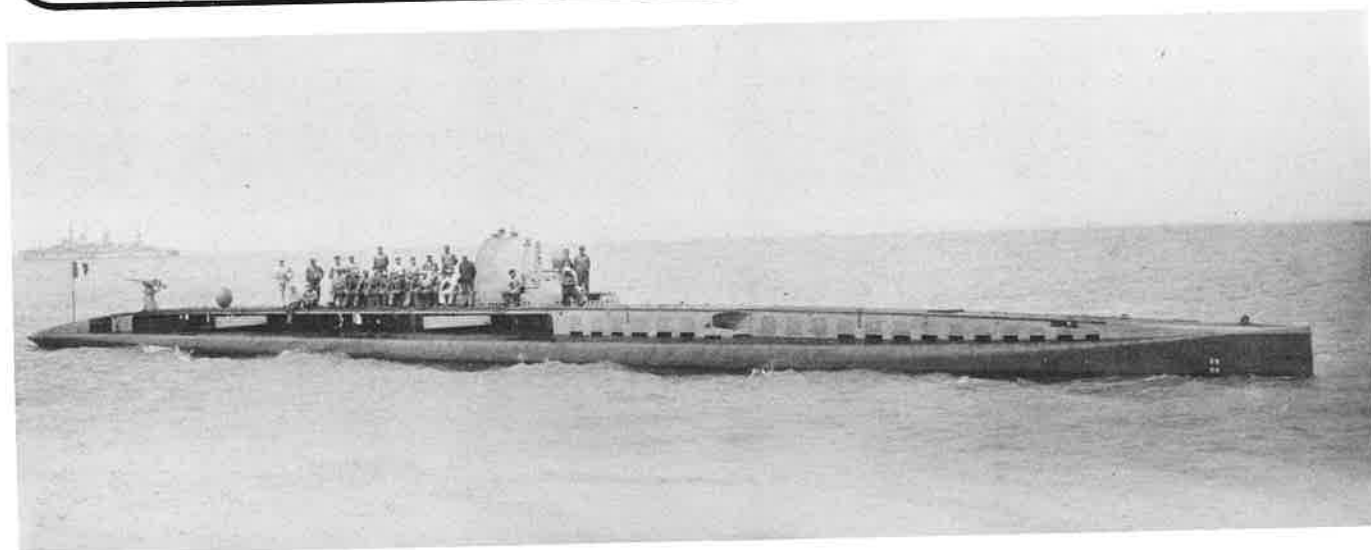
FRIMAIRE



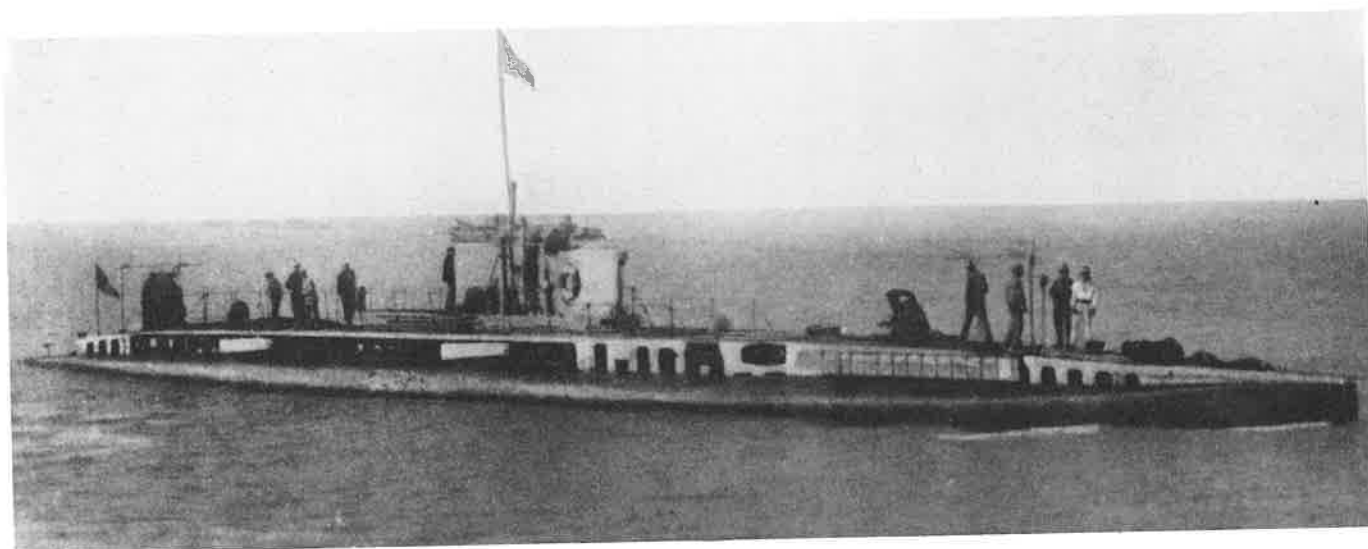
NIVOSE

CLASS

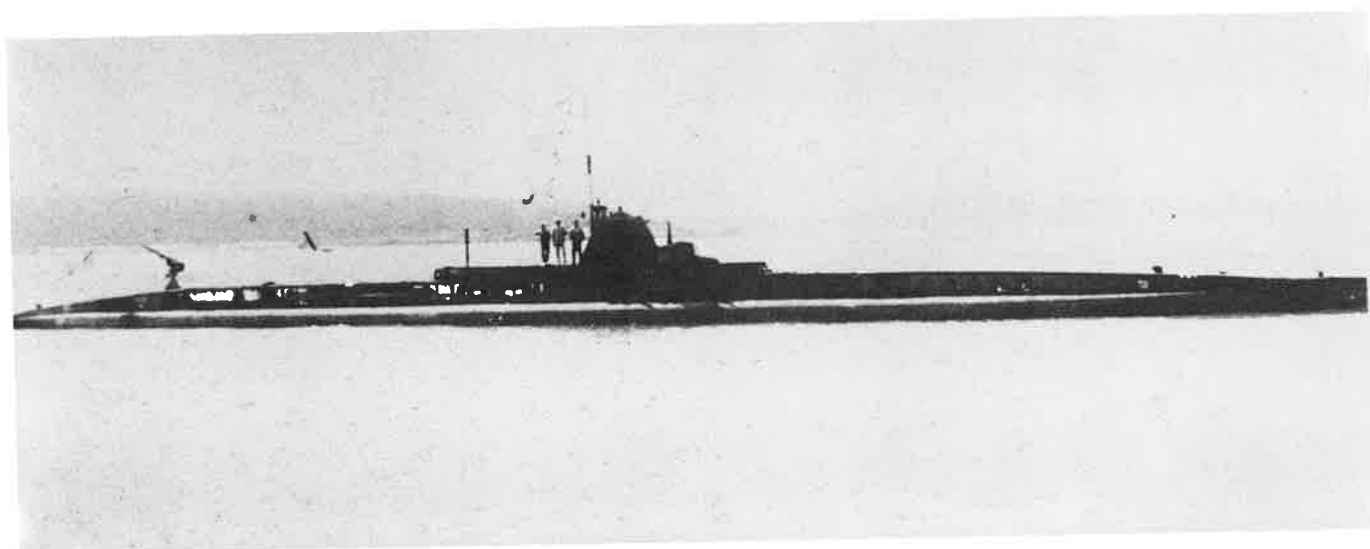
BRUMAIRE



FOUCAULT

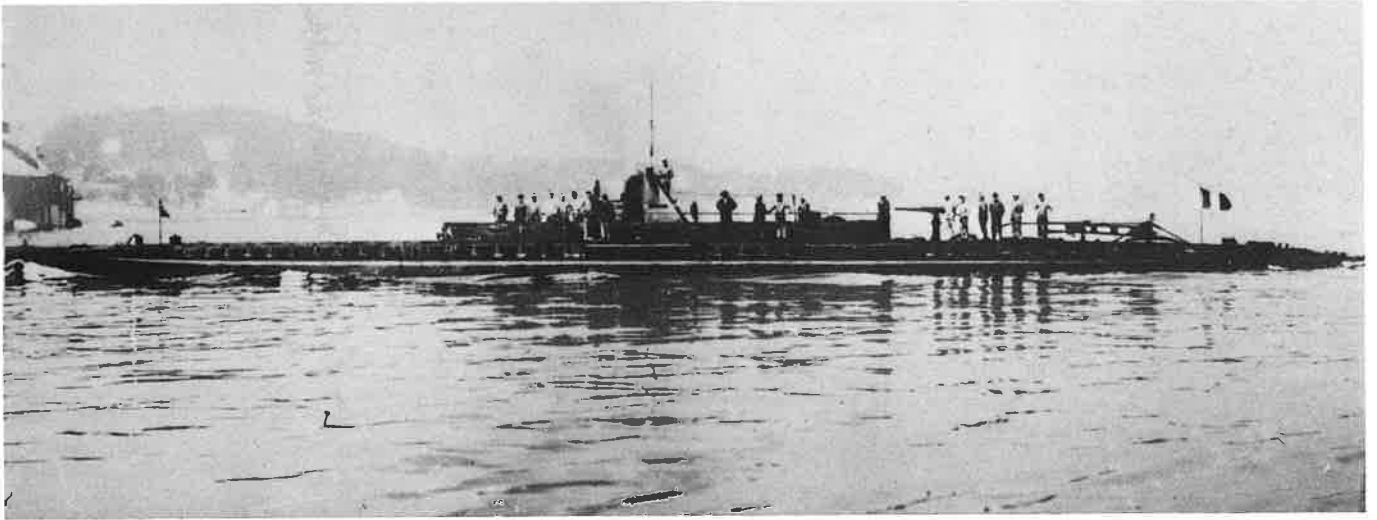


EULER

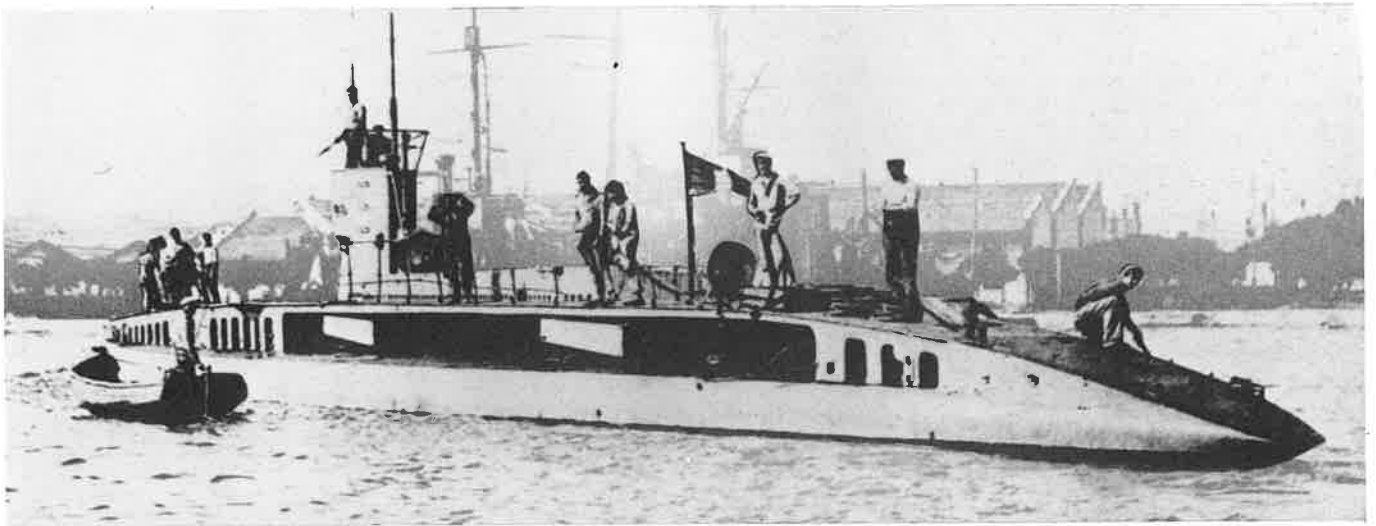


FRANKLIN

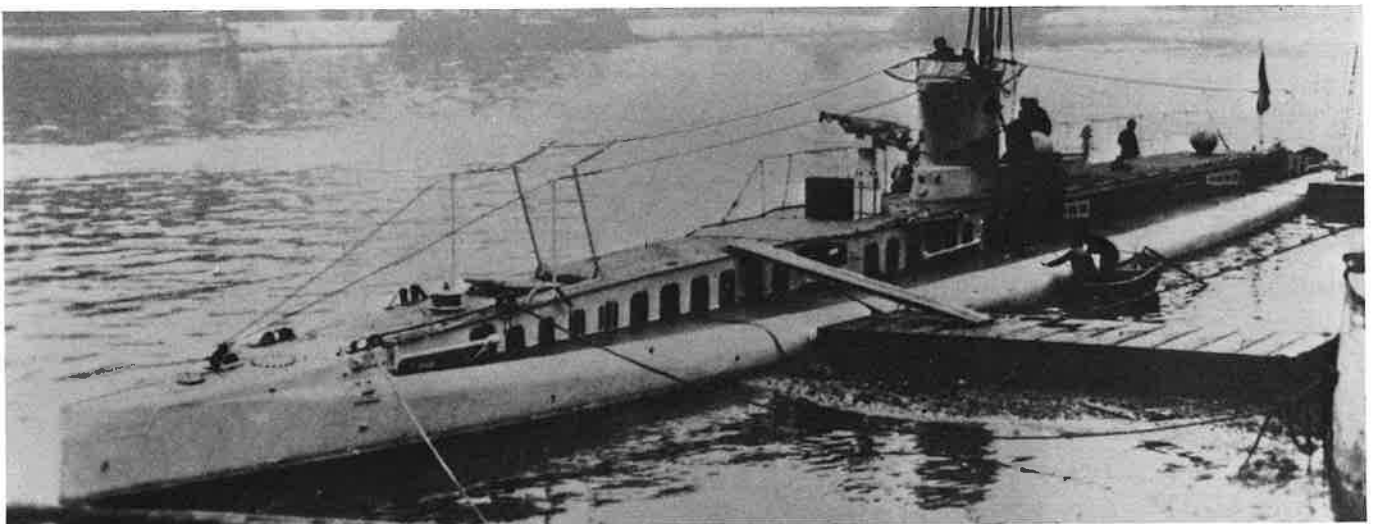
BRUMAIRE



FARADAY

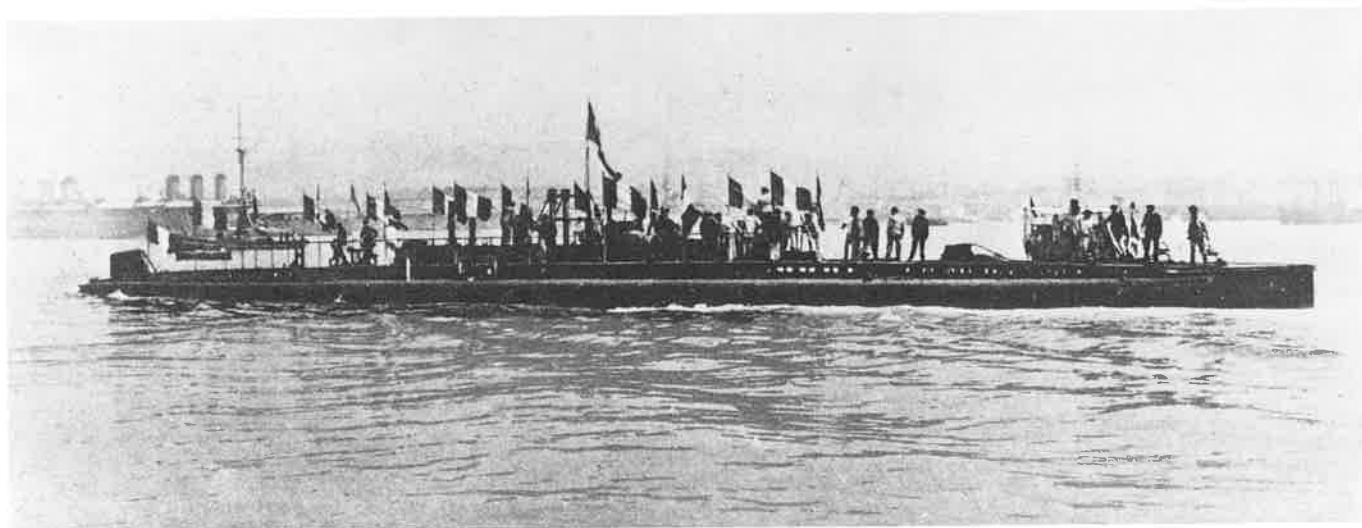


VOLTA

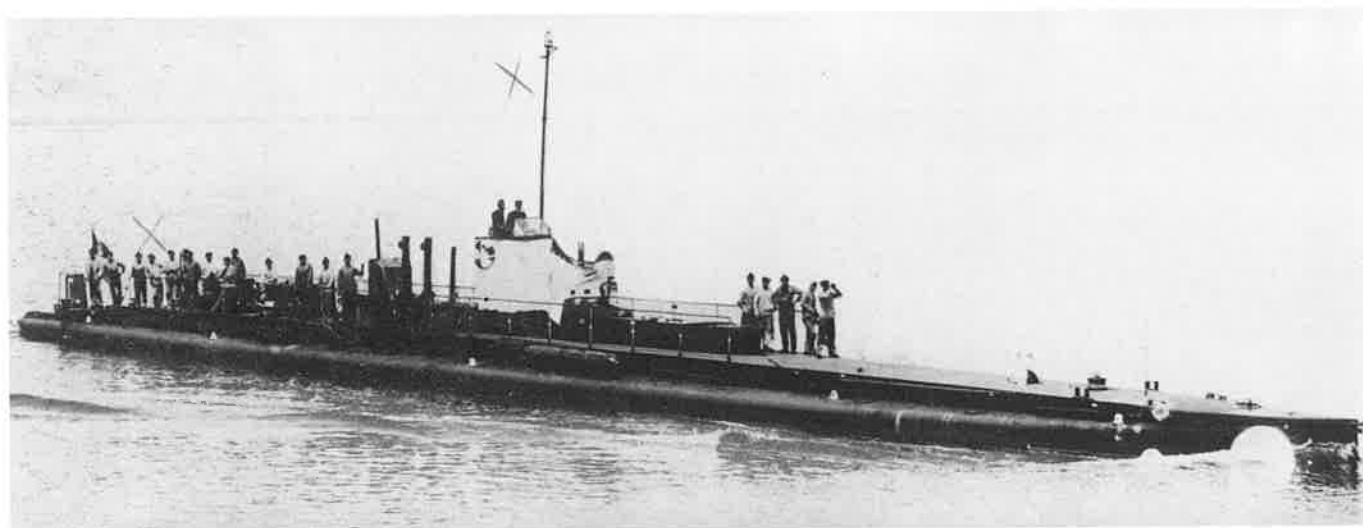


MONGOLFIER

BRUMAIRE



BERNOUILLI

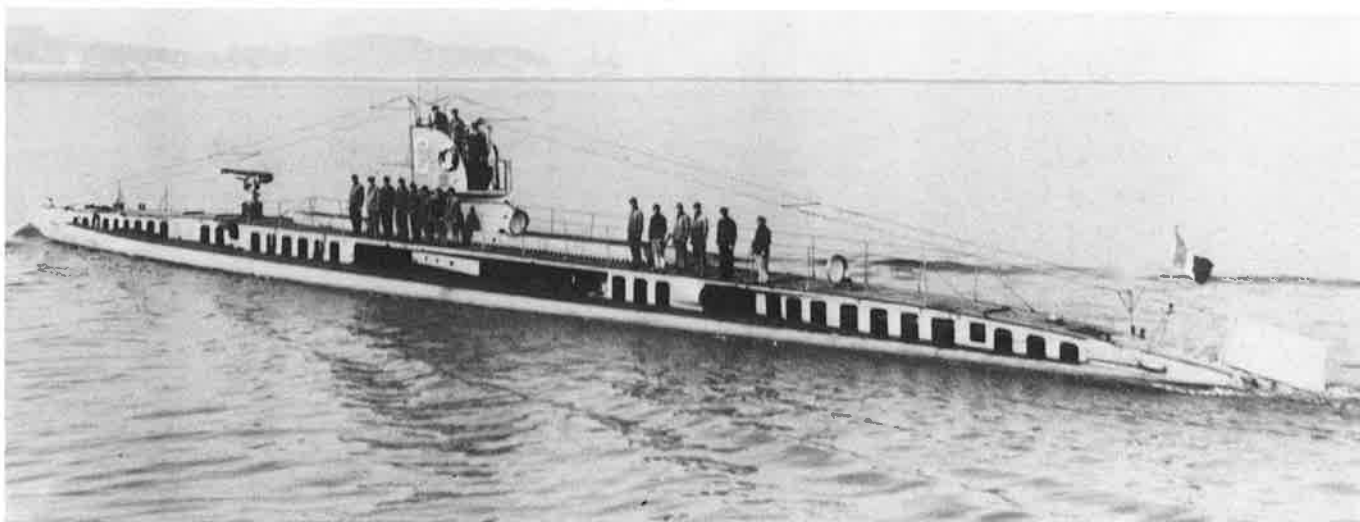


COULOMB



ARAGO

BRUMAIRE



CURIE



LE VERRIER

CLASS **DE DION**

KEY



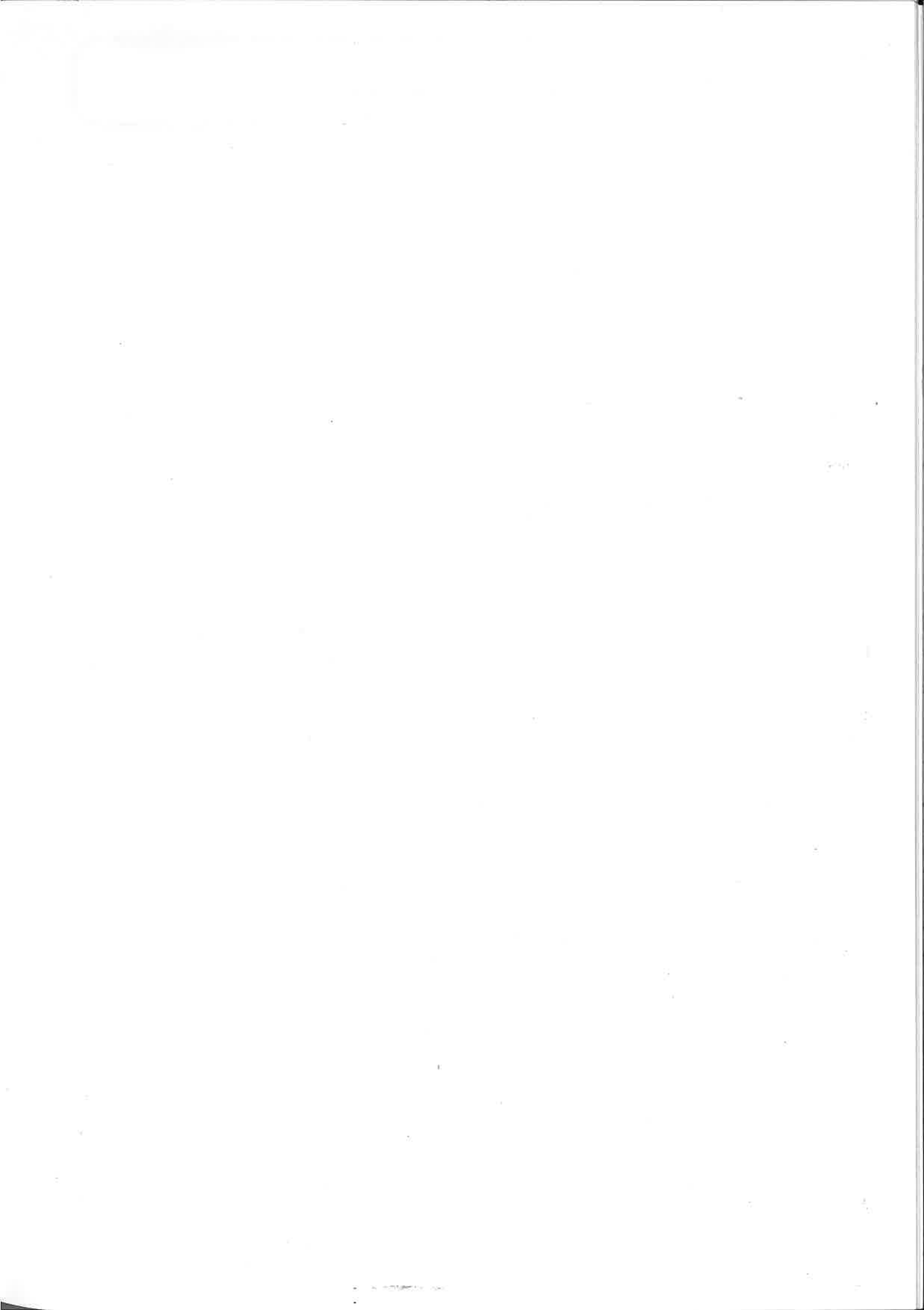
CHARACTERISTICS



HISTORICAL DATA							
Fast patrol submarine							
Designer: De Dion							
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 61	DE DION	-	1904	Building was not completed			

Designer: De Dion

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 61	DE DION	—	1904			Building was not completed	



ARCHIMEDE



KEY

- Electric motor
- Steam engine
- Aft battery
- Fore battery

CHARACTERISTICS

Surface displacement: 695 t
 Submerged displacement: 808 t
 Length: 60 m
 Armament: 1 × 450 BTT
 4 × 450 carcass TTs
 2 Drzw

HISTORICAL DATA

The longest submarine of that time, held world speed records both surfaced and submerged.

Ordered the 31-12-1906 - Designer: Hutter

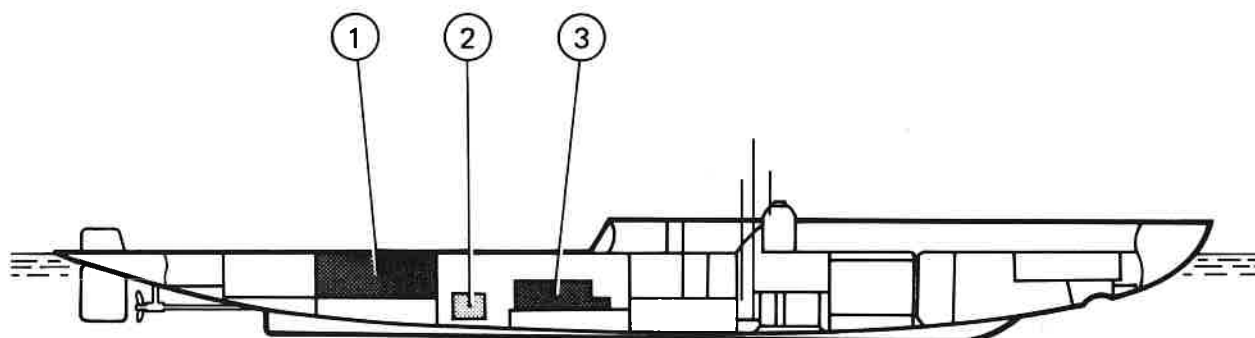
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 73	ARCHIMEDE	Ch	1906	1909	1910	1919	laid up

ARCHIMEDE



ARCHIMEDE

MARIOTTE



KEY

- 1 – Batteries
- 2 – Electric motor
- 3 – Diesel engine

CHARACTERISTICS

Surface displacement: 544 t
 Submerged displacement: 634 t
 Length: 64.75 m
 Armament: 6 × 450 TTs
 8 torpedoes including
 2 spare

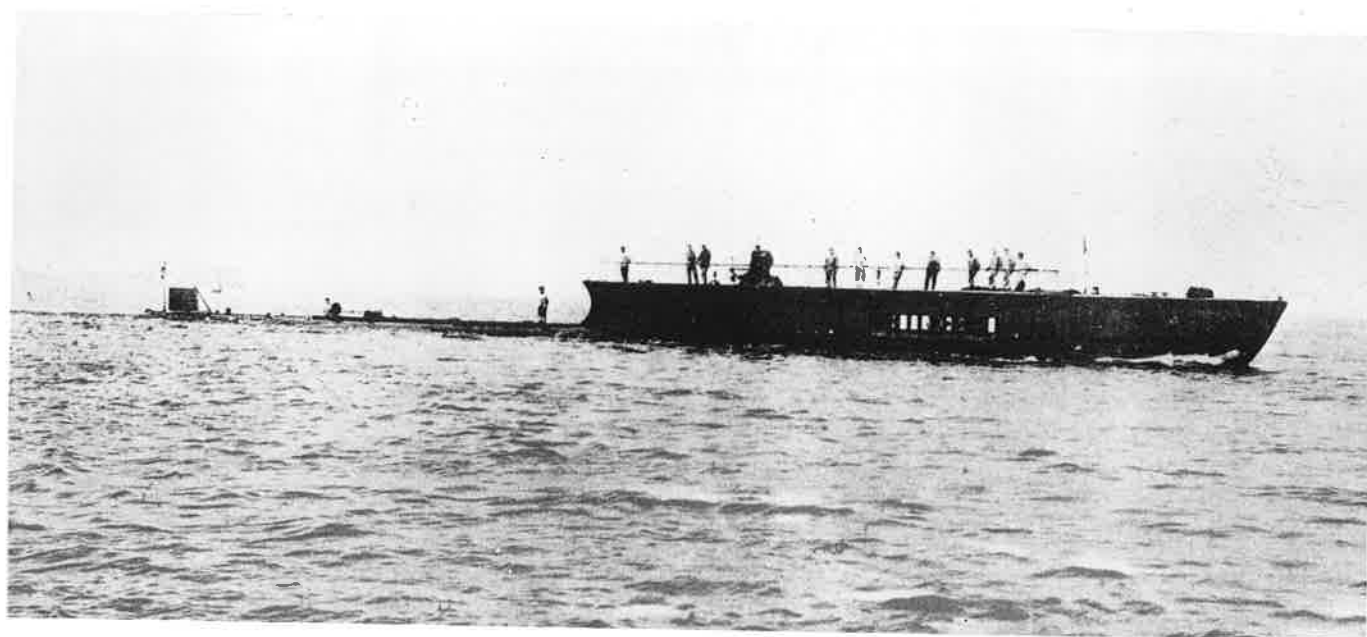
HISTORICAL DATA

Ordered the 31-12-1906 - Designer: Radiguet

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 74	MARIOTTE	Ch	1906	1911	1913	1915	sunk

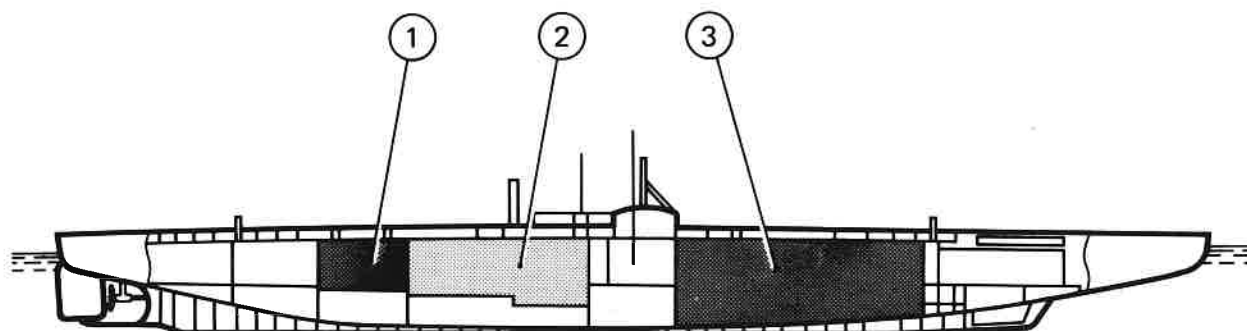
CLASS

MARIOTTE



MARIOTTE

AMIRAL BOURGOIS



KEY

- 1 – Electric motor
2 – Diesel engine
3 – Batteries

CHARACTERISTICS

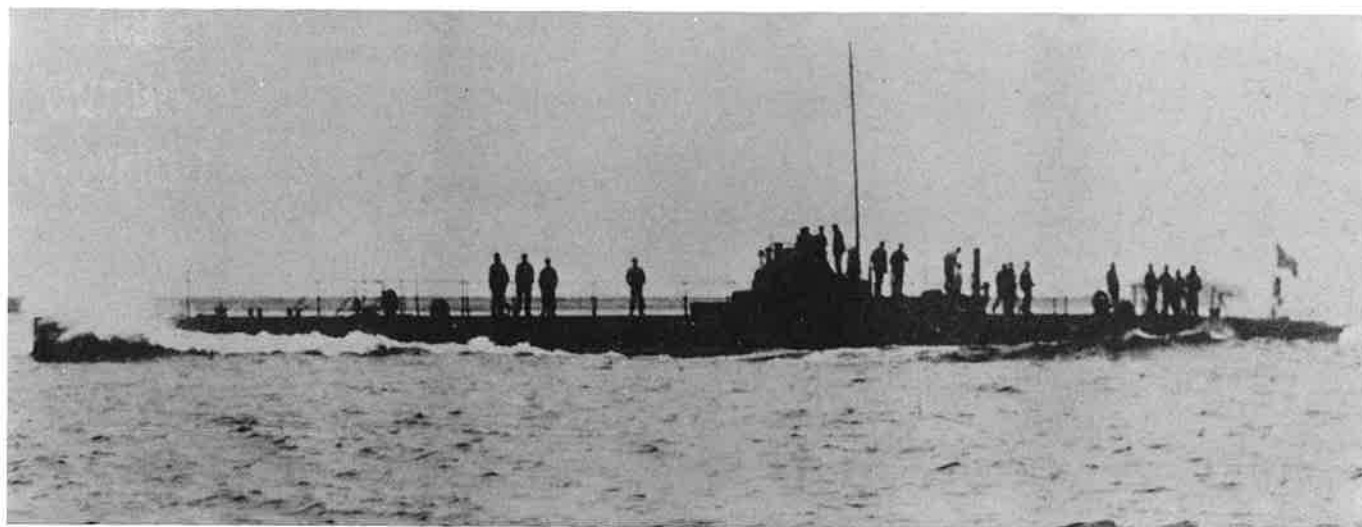
Surface displacement:	555 t
Submerged displacement:	736 t
Length:	56.20 m
Armament:	7 × 450 TTs

HISTORICAL DATA

Ordered the 31-12-1906 - Designer: Bourdelle

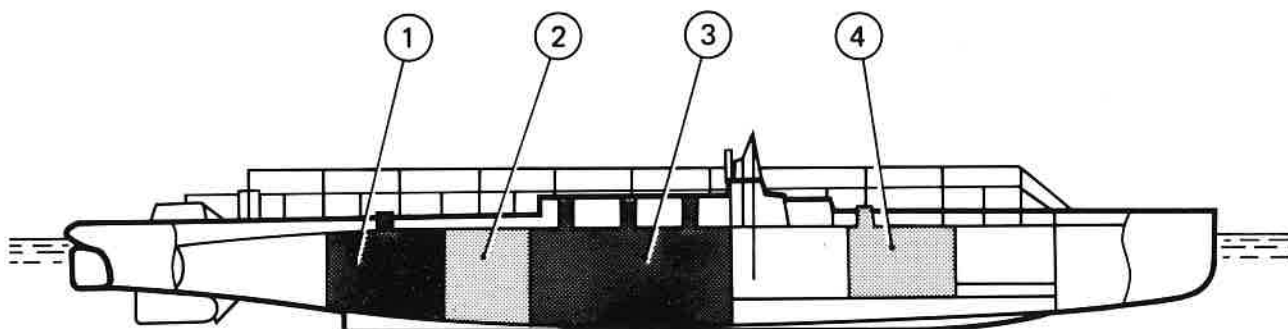
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 82	AI. BOURGOIS	Ro	1908	1912	1914	1919	laid up

AMIRAL BOURGOIS



AMIRAL BOURGOIS

CHARLES BRUN



KEY

- 1 – Electric motor
- 2 – Steam engine
- 3 – Boiler compartment
- 4 – Batteries

CHARACTERISTICS

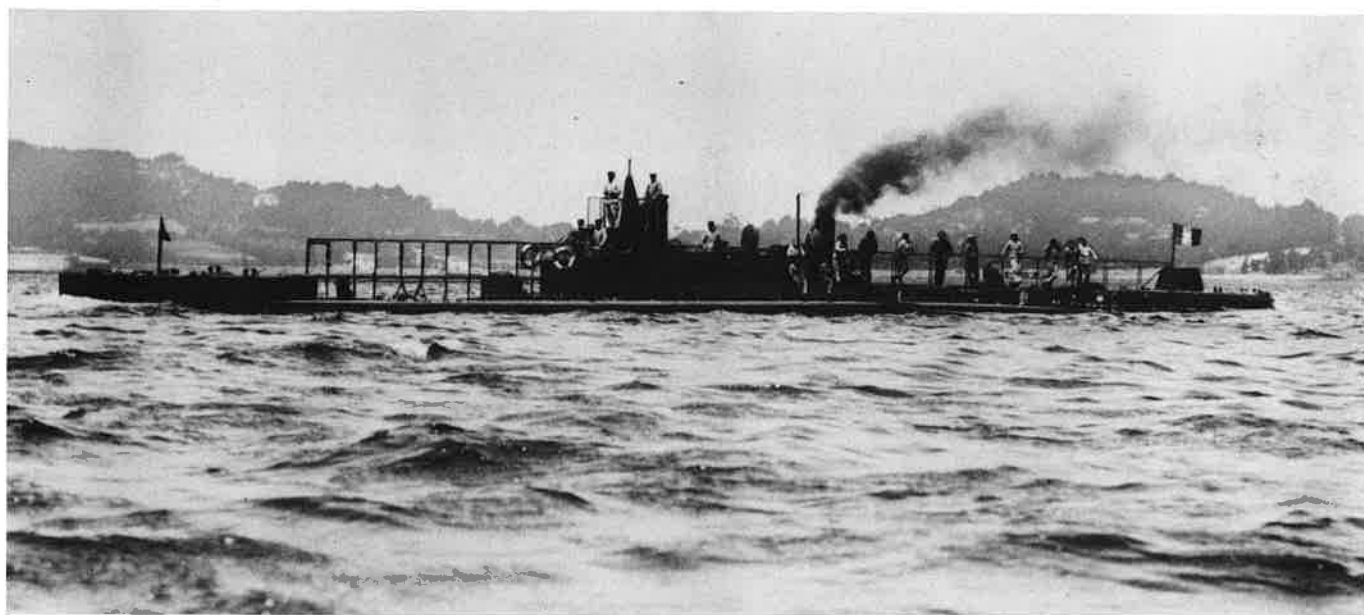
Surface displacement:	360 t
Submerged displacement:	452 t
Length:	45.60 m
Armament:	6 × 450 TTs

HISTORICAL DATA

Ordered the 31-12-1906 - Designer: Maurice

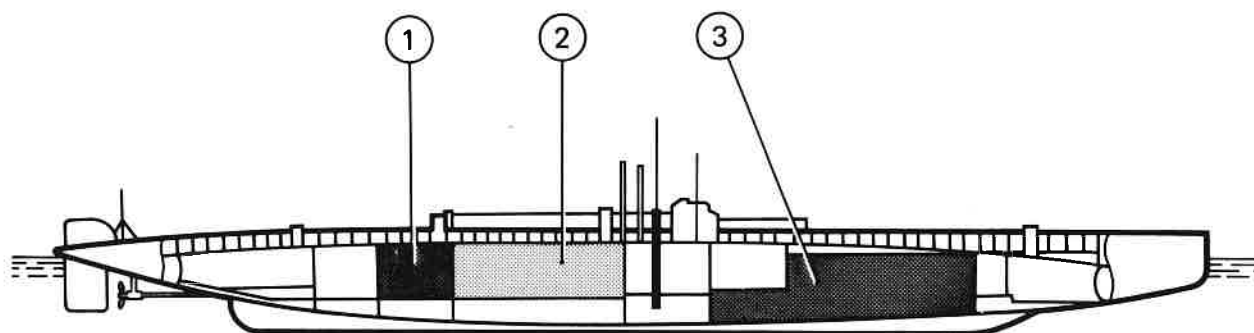
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 89	CHARLES BRUN	To	1908	1910	Tested from 1910 to 1913 - condemned in 1920		

CHARLES BRUN



CHARLES BRUN

CLOVINDE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

CHARACTERISTICS

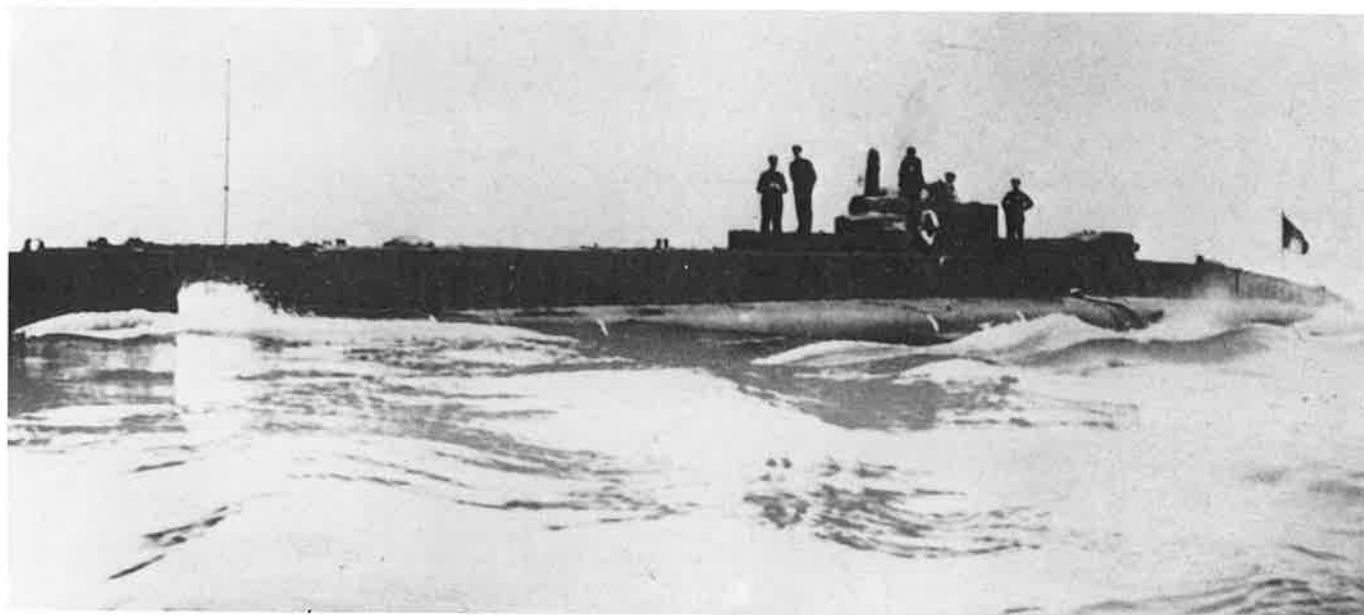
Surface displacement: 413 t
 Submerged displacement: 567 t
 Length: 53.95 m
 Armament: 8 × 450 TLs

HISTORICAL DATA

Ordered the 06-08-1910 - Designer: Hutter

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 90	CLOVINDE	Ro	1910	1913	1916	1926	laid up
Q 91	CORNELIE	Ro	1910	1913	1917	1926	laid up

CLOVINDE

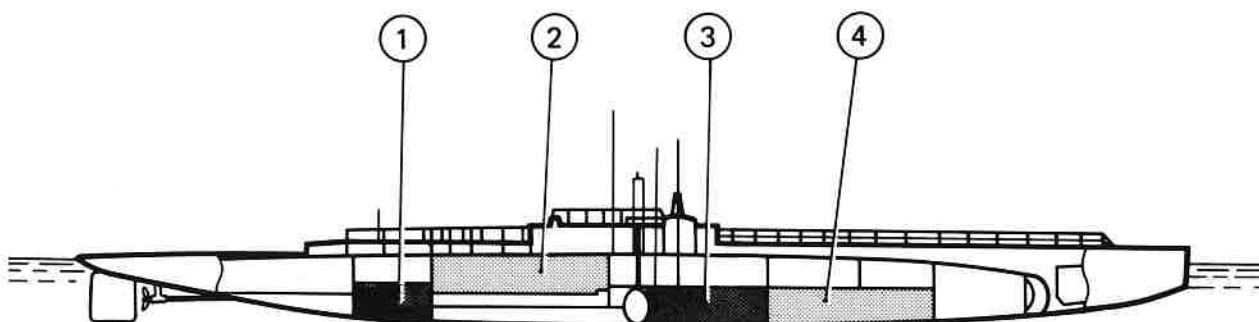


CLOVINDE



CORNELIE

GUSTAVE ZEDE II



KEY

- 1 – Electric motor
- 2 – Steam engine (GZ) Diesel engine (N)
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement:

Submerged displacement:

Length:

Armament:

GZ	N
850 t	850 t
1098 t	1087 t

74 m

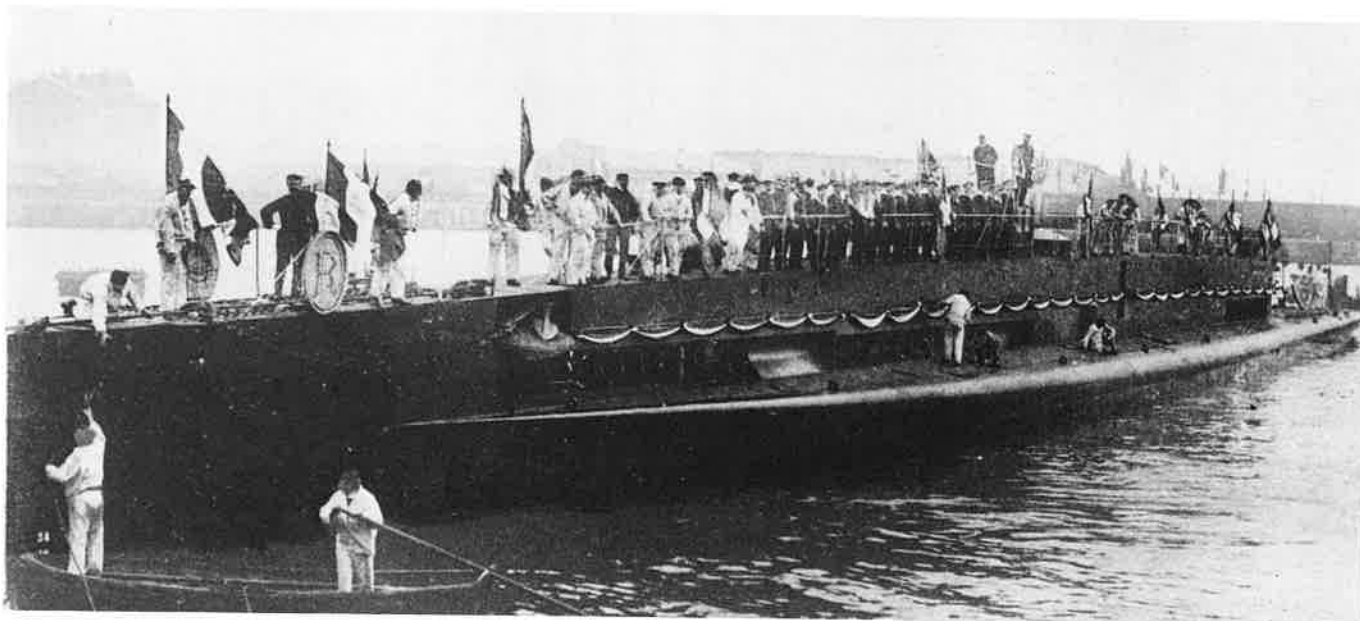
2 carcass BTTs
 4 Simonot TLs
 8 × 450 torpedoes
 1 × 75 mm gun
 1 × 47 mm gun

HISTORICAL DATA

Ordered the 28-09-1910 - Designer: Simonot

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 92	G. ZEDE II	Ch	1911	1913	1914	1937	laid up
Q 93	NEREIDE	Ch	1911	1914	1916	1935	laid up

GUSTAVE ZEDE II

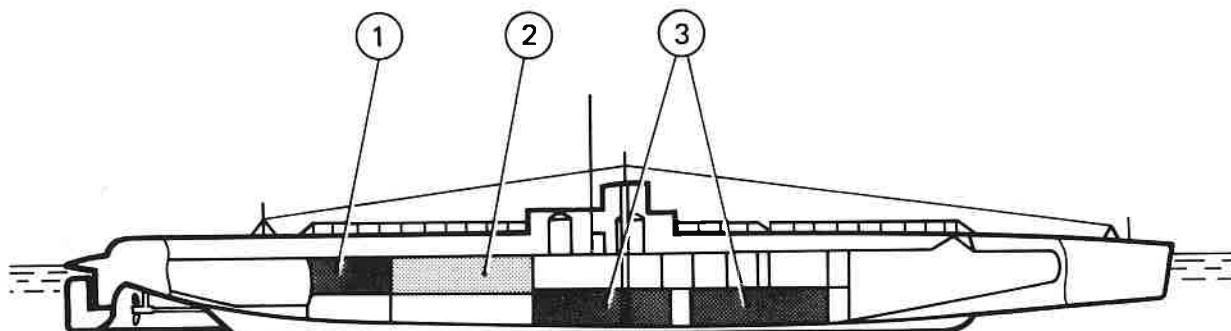


GUSTAVE ZEDE II



NEREIDE

AMPHITRITE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

CHARACTERISTICS

Surface displacement: 414 t - 430 t
 Submerged displacement: 609 t - 610 t
 Length: 53.95 m
 Armament: 8 x 450 TLs

HISTORICAL DATA

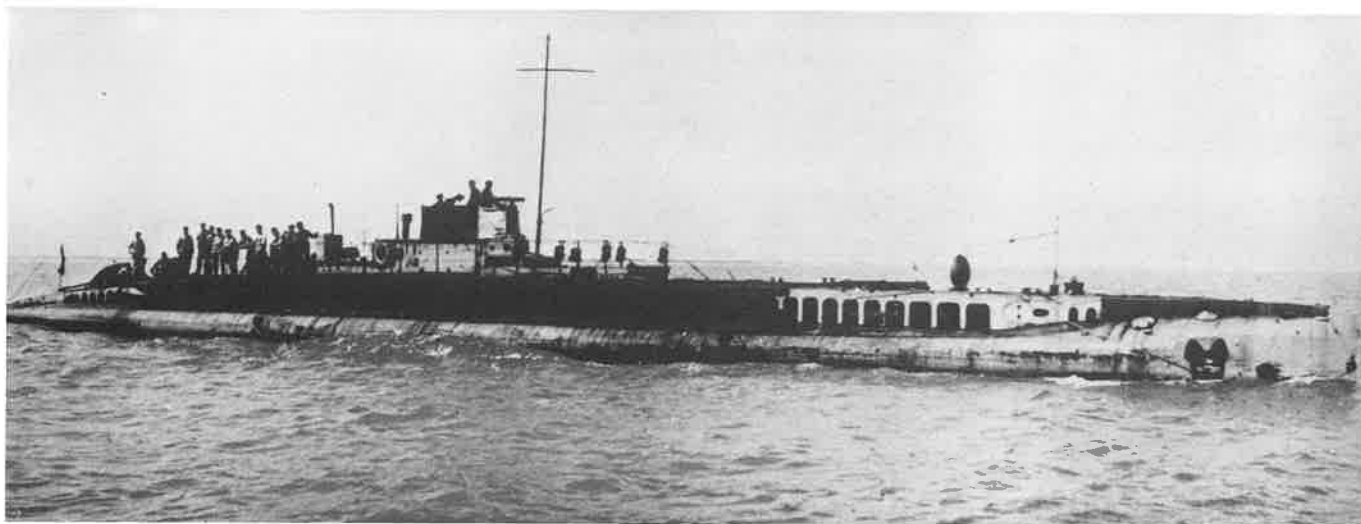
The AMARANTE and the ASTREE were modified into mine layers after their launching.

Ordered the 01-08-1912 - Designer: Hutter

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 94	AMPHITRITE	Ro	1912	1914	1916	1935	laid up
Q 95	ASTREE	Ro	1912	1915	1918	1928	laid up
Q 96	ARTEMIS	To	1912	1917	1916	1927	laid up
Q 97	ARETHUSE	To	1912	1916	1916	1927	laid up
Q 98	ATALANTE	To	1912	1915	1916	1931	laid up
Q 99	AMARANTE	Ro	1912	1915	1918	1925	laid up
Q 100	ARIANE	Ch	1912	1914	1916	1917	sunk
Q 101	ANDROMAQUE	Ch	1912	1915	1916	1931	laid up

On 20-04-28, the ATALANTE and the AMPHITRITE were renamed
 ATALANTE II and AMPHITRITE II

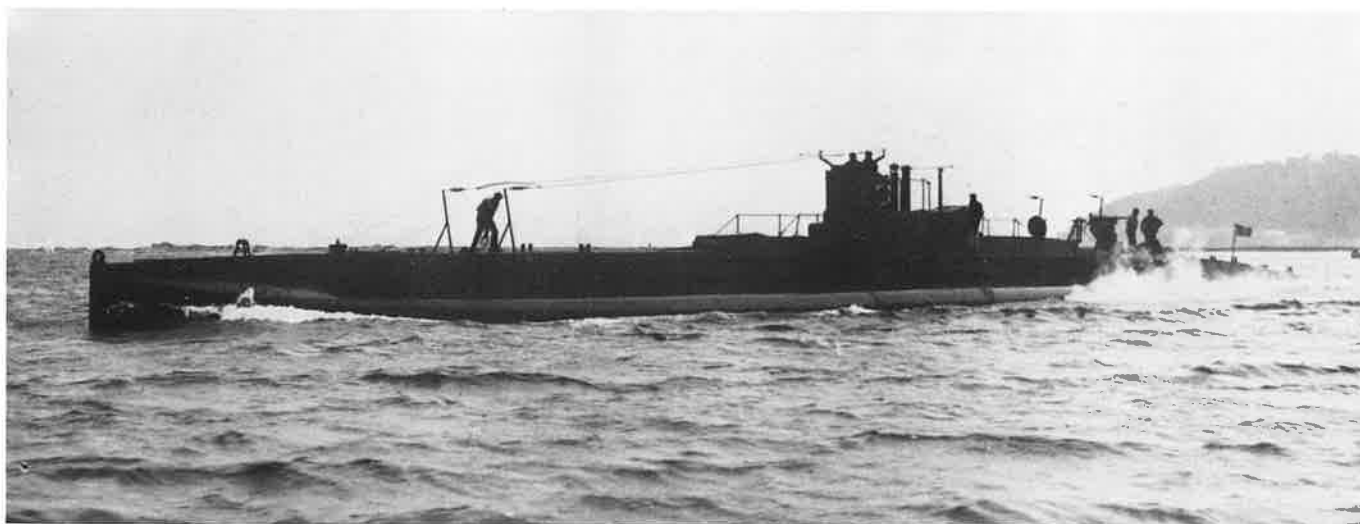
AMPHITRITE



AMPHITRITE



ASTREE

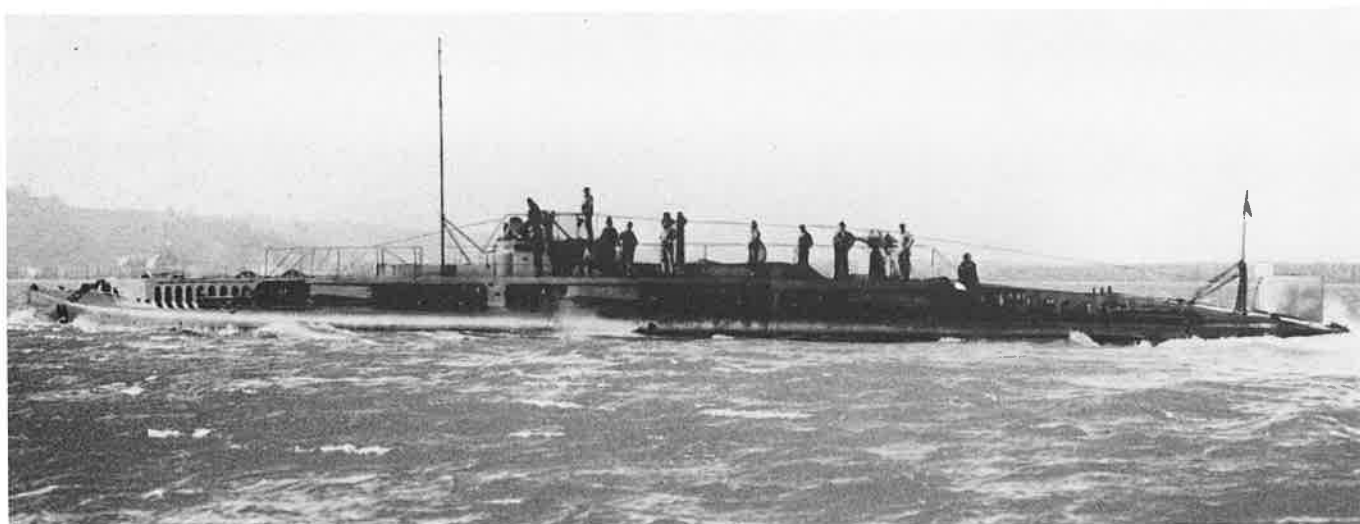


ARTEMIS

AMPHITRITE



ARETHUSE



ATALANTE



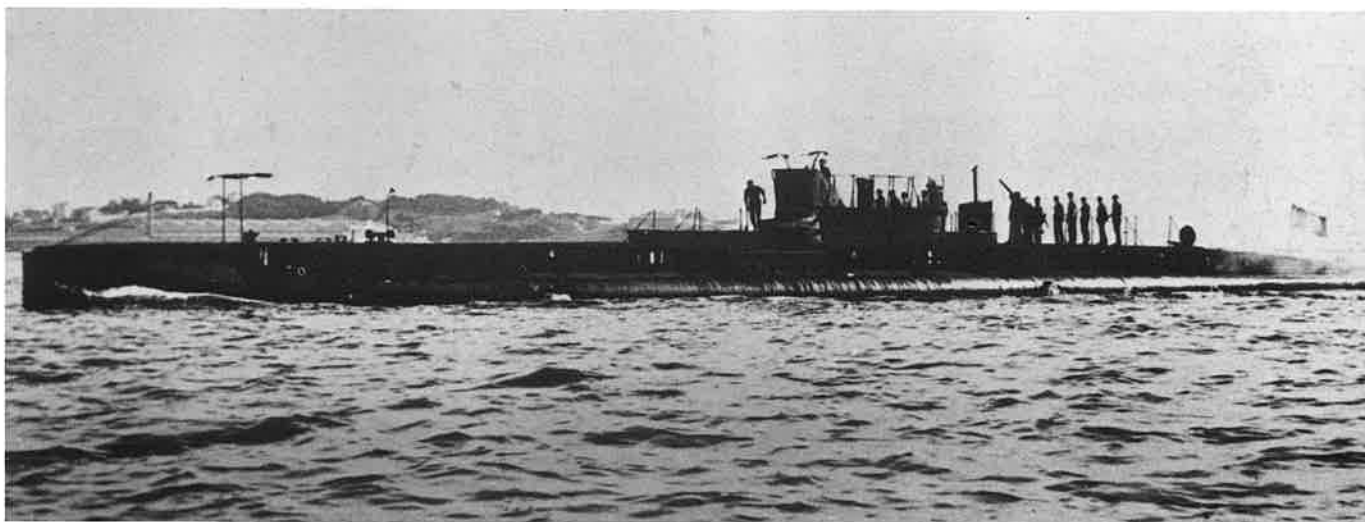
AMARANTE



AMPHITRITE

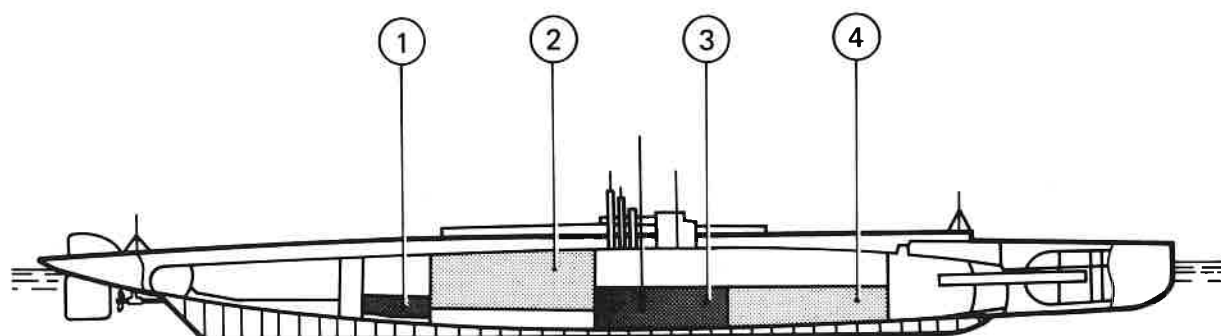


ARIANE



ANDROMAQUE

BELLONE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 523 t
 Submerged displacement: 788 t
 Length: 60.60 m
 Armament: 8 × 450 TLs
 1 × 75 mm gun

HISTORICAL DATA

Ordered the 01-08-1912 - Designer: Hutter

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 102	BELLONE	Ro	1912	1914	1917	1935	laid up
Q 103	HERMIONE	To	1913	1917	1918	1935	laid up
Q 104	GORGONE	To	1913	1915	1916	1935	laid up



BELLONE



BELLONE

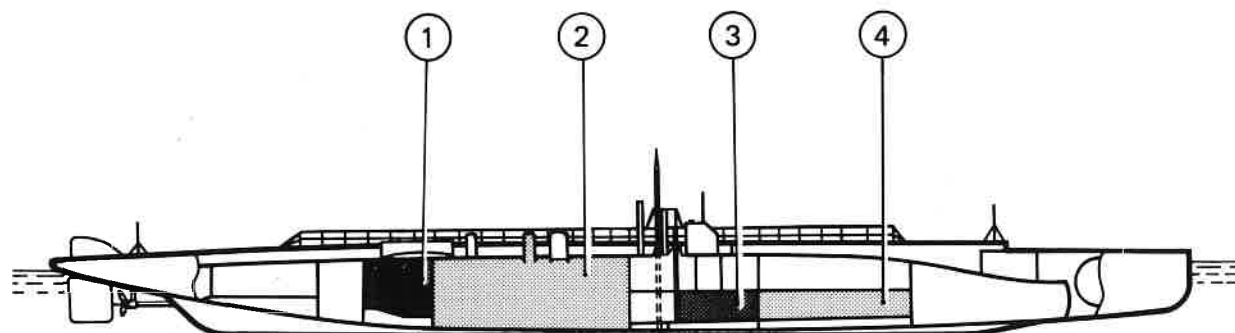


HERMIONE



GORGONE

DUPUY DE LOME



KEY

- 1 – Electric motor
- 2 – Steam engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

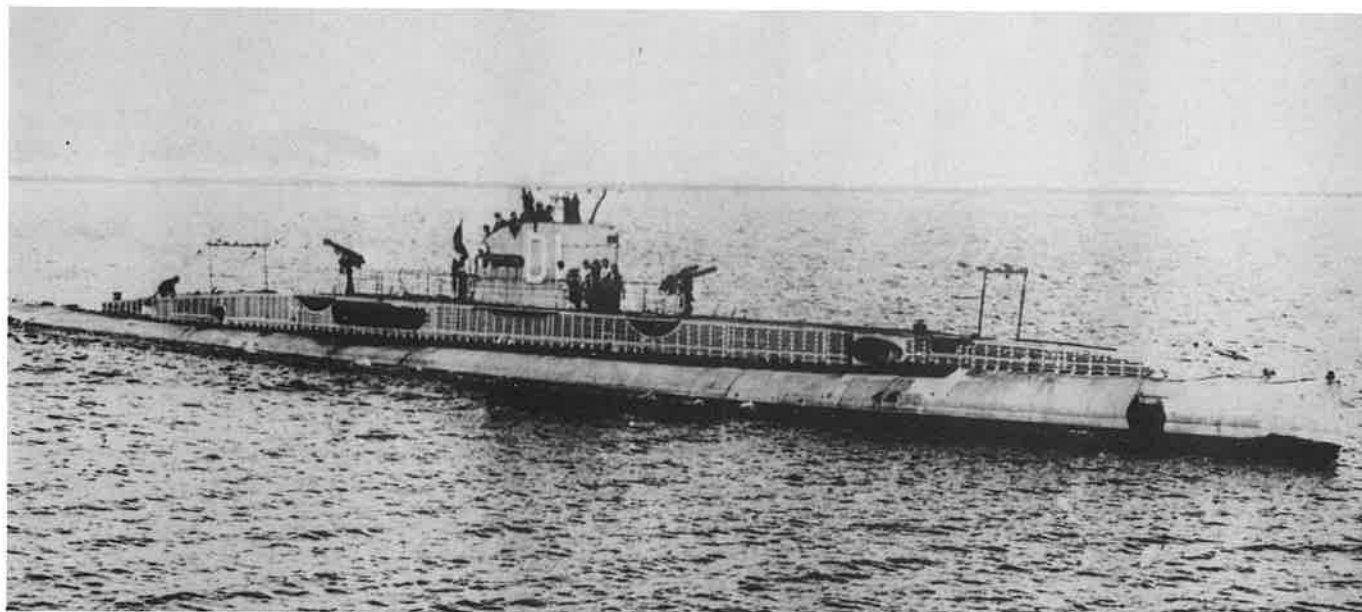
Surface displacement: 833 t
 Submerged displacement: 1287 t
 Length: 75 m
 Armament: 8 × 450 TTs

HISTORICAL DATA

Ordered in 1913 - Designer: Hutter

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 105	DUPUY DE LOME	To	1913	1915	1916	1935	laid up
Q 106	SANE	To	1913	1916	1916	1935	laid up

DUPUY DE LÔME

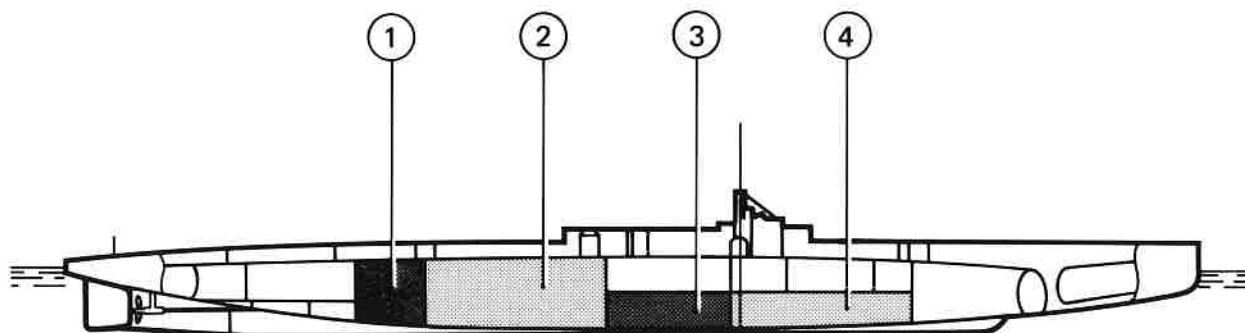


DUPUY DE LÔME



SANE

DIANE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 633 t
 Submerged displacement: 891 t
 Length: 68 m
 Armament: 10 × 450 TLs

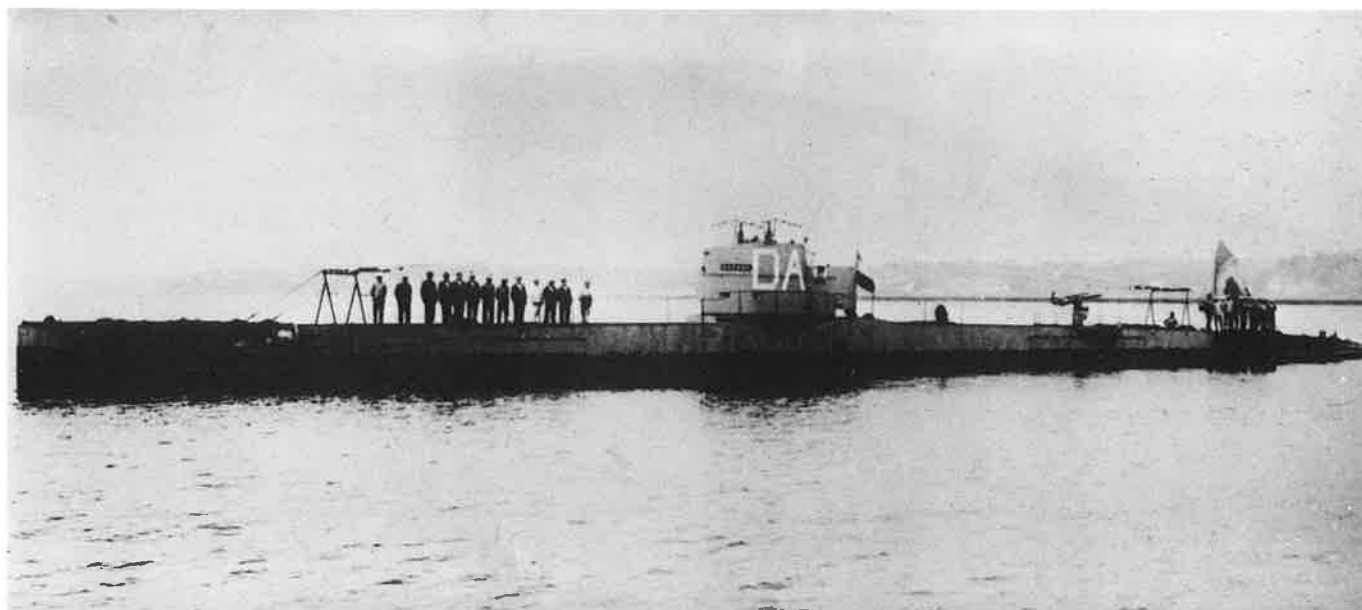
HISTORICAL DATA

Ordered in 1912 - Designer: Simonot

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 107	DIANE	Ch	1912	1916	1917	1918	sunk laid up
Q 108	DAPHNE	Ch	1912	1915	1916	1935	

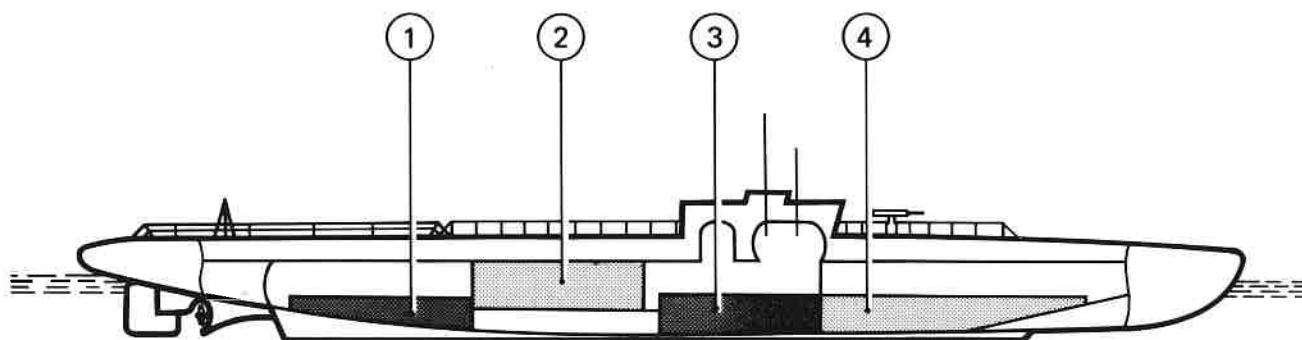


DIANE



DAPHNE

MAURICE CALLOT



KEY

- 1 – Electric motor
- 2 – Engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 931 t
 Submerged displacement: 1298 t
 Length: 75.50 m
 Armament: 6 × 450 TTs
 8 torpedoes
 27 mines
 1 × 75 mm gun

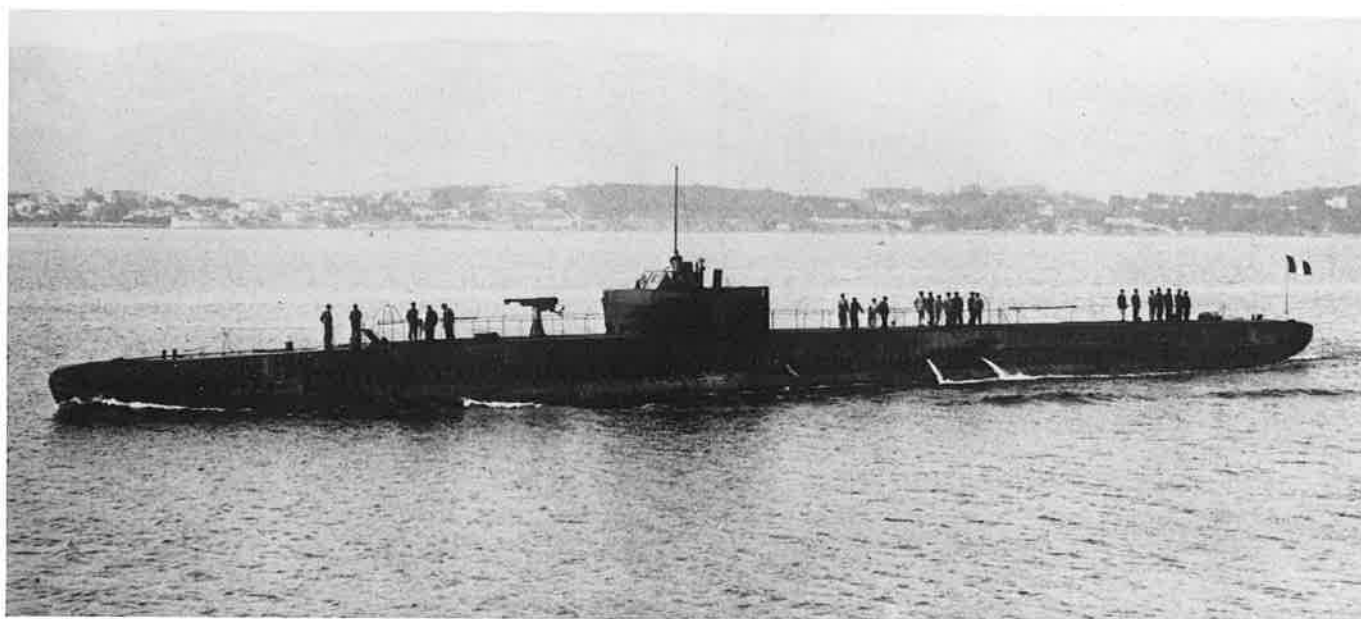
HISTORICAL DATA

Ordered in 1913 - Designer: Laubeuf

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
NN1	MAURICE CALLOT	FCG	1917	1921	1922	1936	laid up

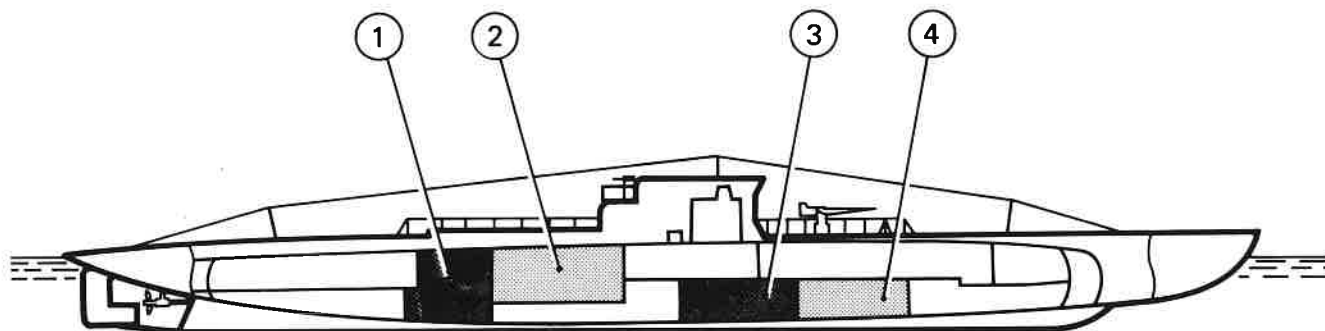


MAURICE CALLOT



MAURICE CALLOT

PIERRE CHAILLEY



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 884 t
 Submerged displacement: 1191 t
 Length: 70 m
 Armament: 4 × 450 TTs
 + 2 spare torpedoes
 40 × 200 kg mines
 1 × 100 mm gun

HISTORICAL DATA

Early in its existence, this submarine went mistakenly under the name of PAUL CHAILLEY.

Ordered in 1913 - Designer: Fenaux

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
NN2	PIERRE CHAILLEY	N	1917	1922	1925	1936	laid up

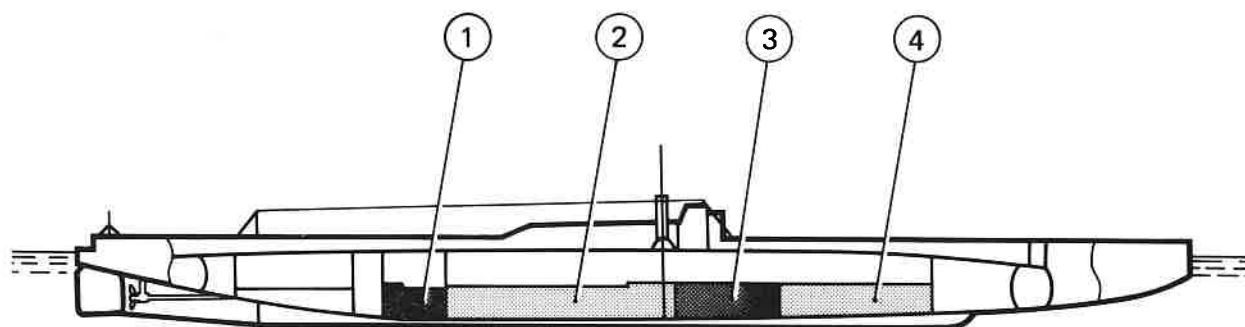


PIERRE CHAILLEY



PIERRE CHAILLEY

JOESSEL



KEY

- 1 – Electric motor
- 2 – Steam engine (turbine)
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 870 t
 Submerged displacement: 1247 t
 Length: 74 m
 Armament: 8 × 450 TTs
 2 × 75 mm guns

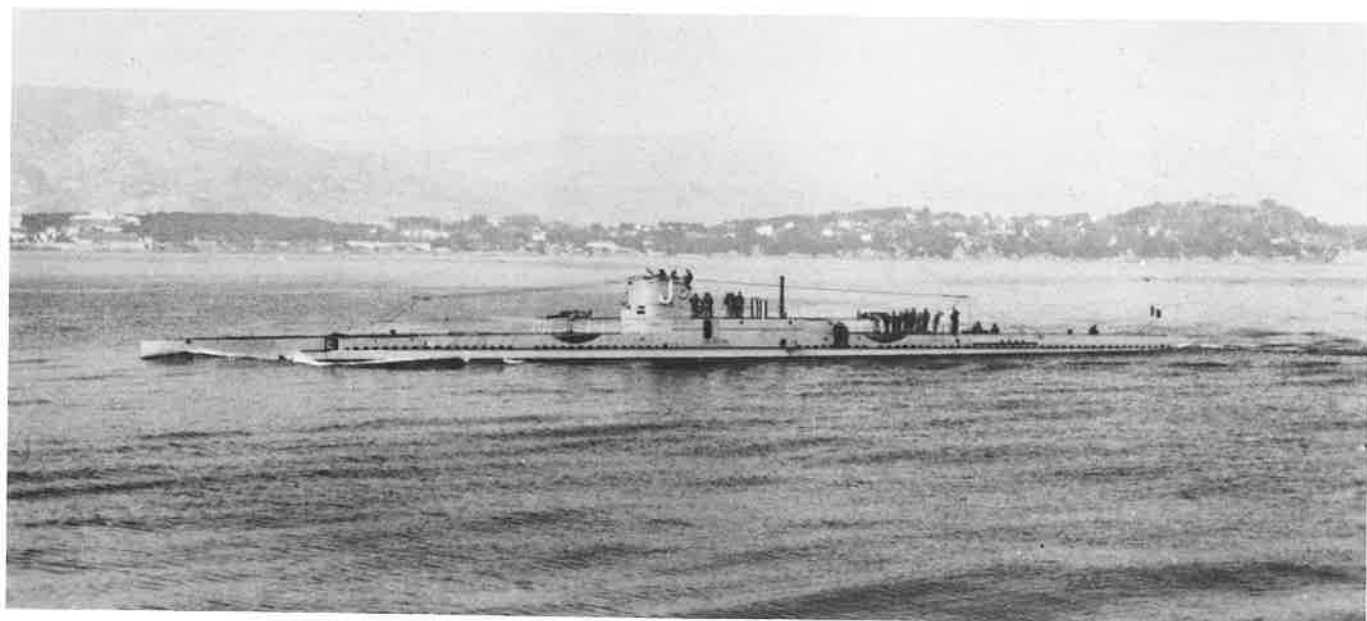
HISTORICAL DATA

Ordered in 1913 - Designer: Simonot

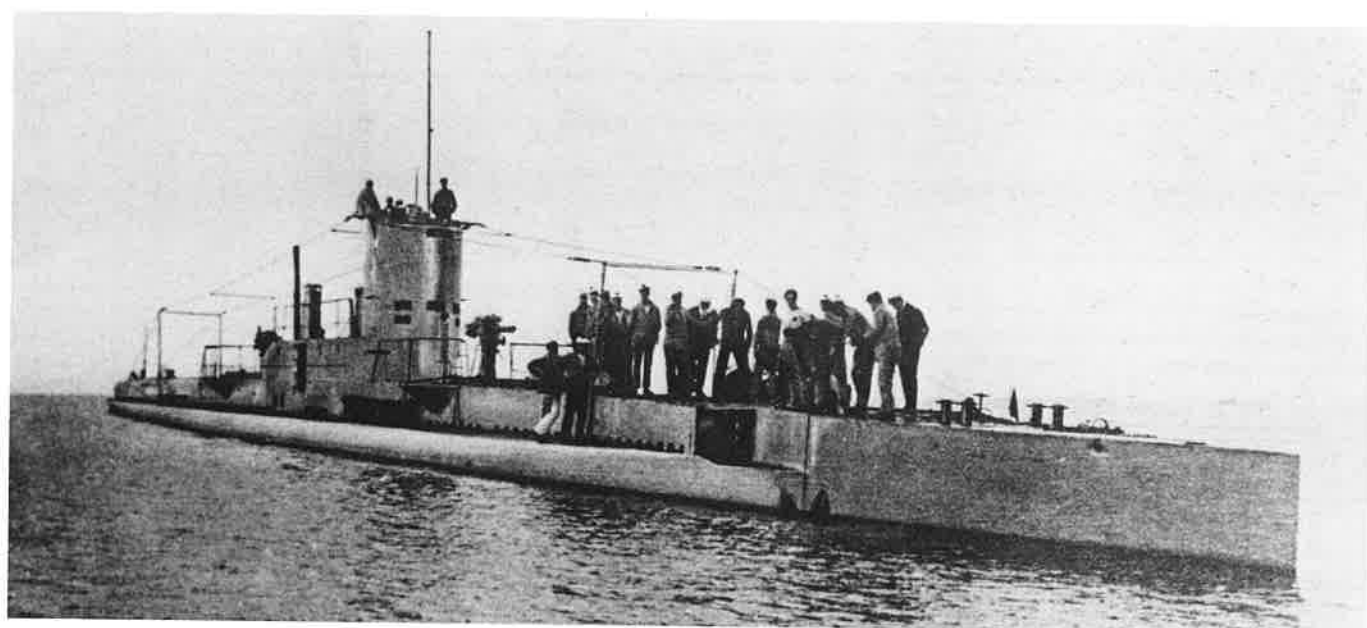
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q109	JOESSEL	Ch	1913	1917	1919	1935	laid up
Q110	FULTON	Ch	1913	1919	1920	1935	laid up



JOESSEL

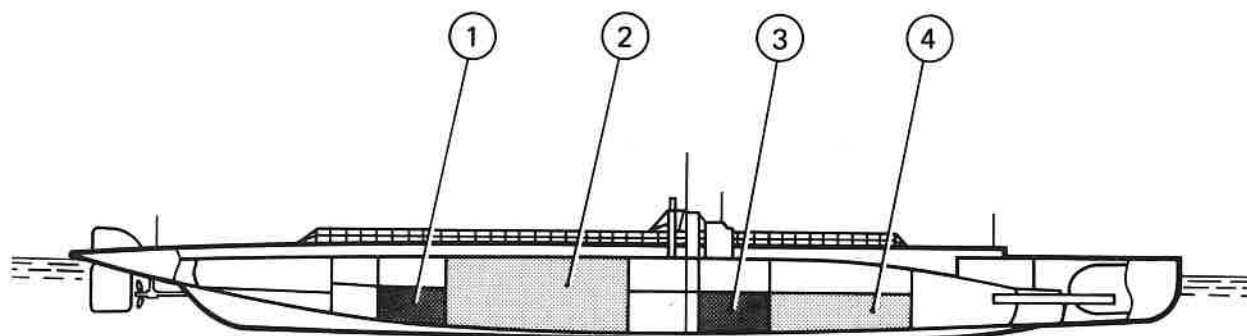


JOESSEL



FULTON

LAPLACE



KEY

- 1 – Electric motor
- 2 – Steam engine (turbine)
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 840 t
 Submerged displacement: 1310 t
 Length: 75 m
 Armament: 8 × 450 TLs
 2 × 75 mm guns

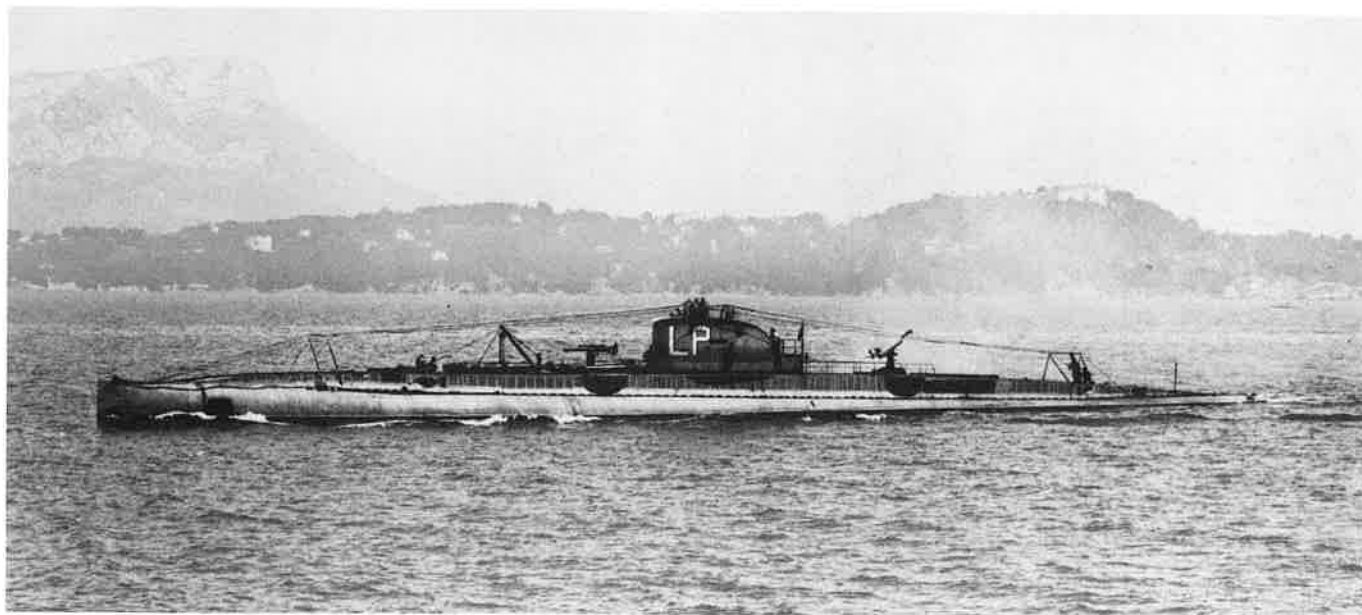
HISTORICAL DATA

Ordered in 1913 - Designer: Hutter

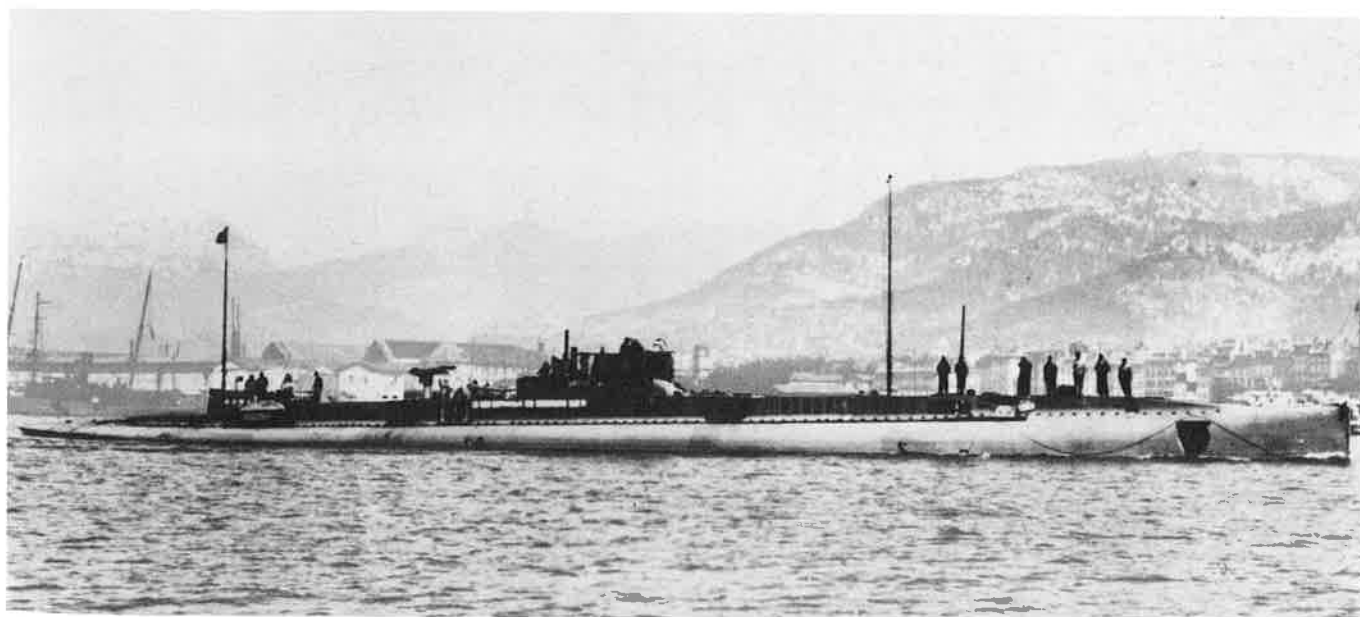
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 111	LAPLACE	To	1913	1919	1921	1937	laid up
Q 112	LAGRANGE	Ro	1913	1917	1918	1935	laid up
Q 113	REGNAULT	To	1913	1924	1924	1937	laid up
Q 114	ROMAZOTTI	To	1914	1918	1918	1935	laid up



LAPLACE



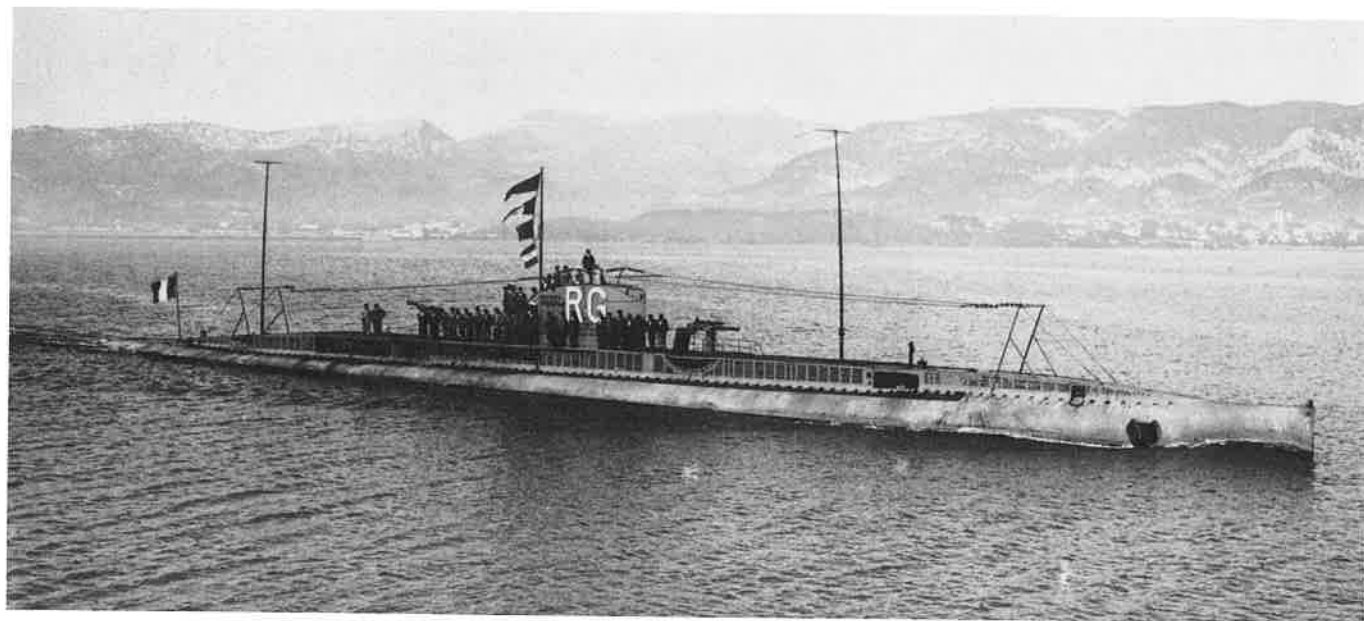
LAPLACE



LAGRANGE



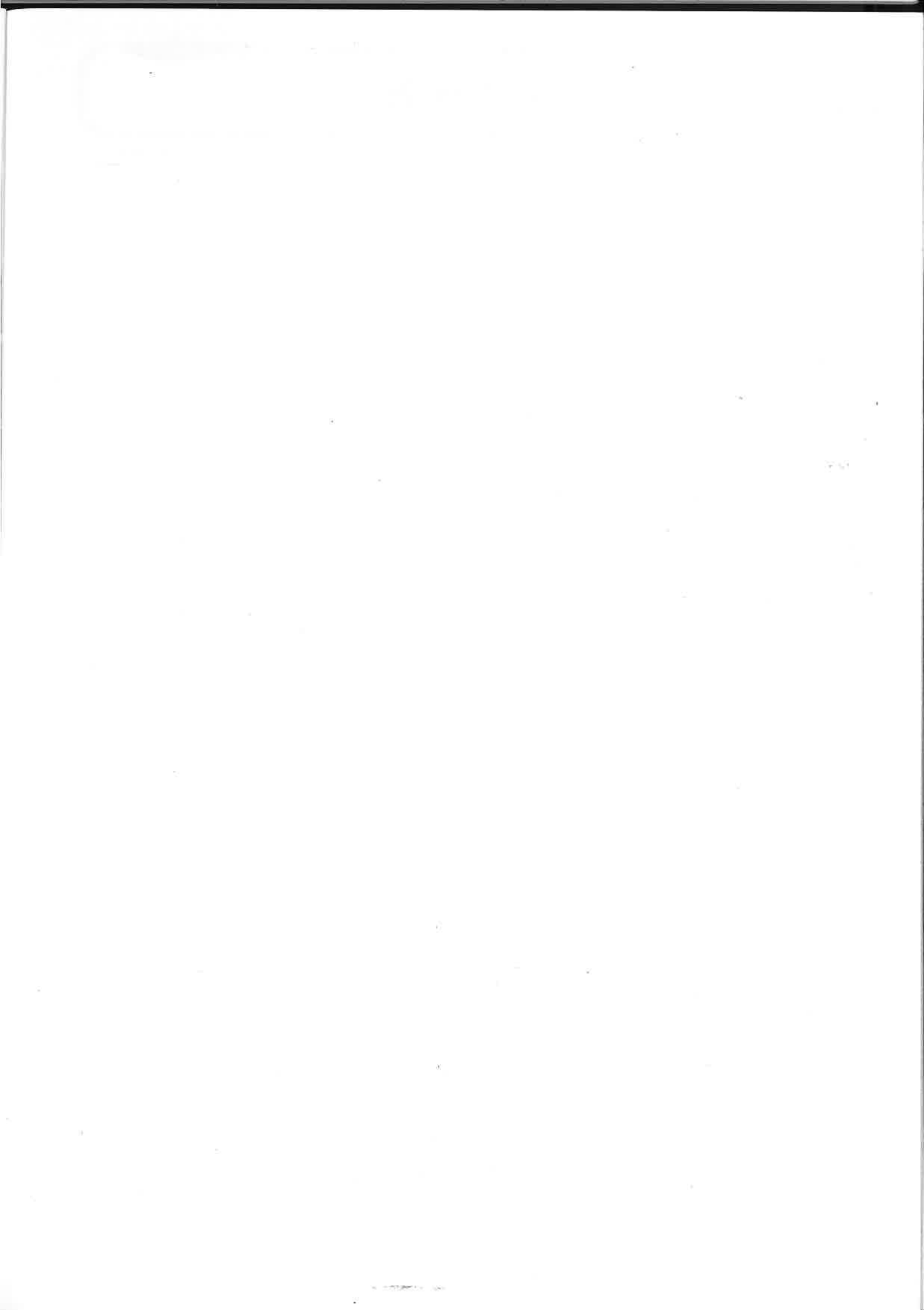
LAPLACE



REGNAULT



RAMAZOTTI





ARMIDE

KEY

CHARACTERISTICS

Surface displacement:

Submerged displacement:

Length:

Armament:

SD1 - SD2 SD3	SC4 - SC5 SC6
457 t	342 t
675 t	513 t
56.75 m	52.45 m
4 to 6 × 450 TLs	4 TLs 1 × 47 mm gun

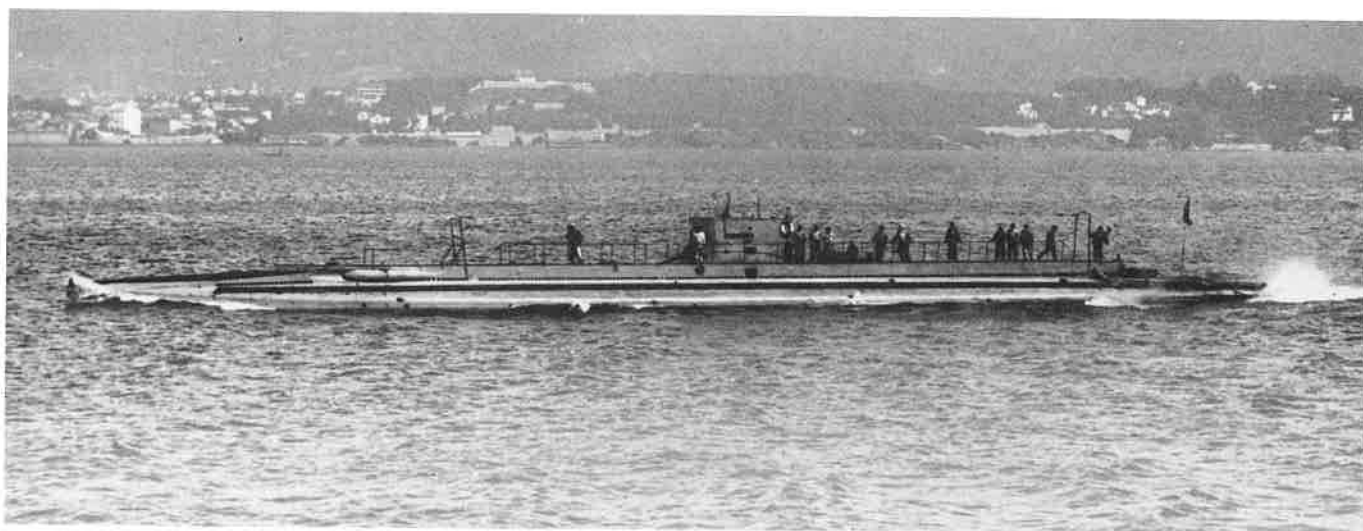
HISTORICAL DATA

Six submarines built by private shipyards, for foreign navies, used after World War I by the French Navy.

Ordered in 1914 - Designer: Laubeuf

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
SD2	ARMIDE	S	1912	1915	1916	1932	
SD3	ANTIGONE	FCG	1912	1916	1917	1927	
SD4	AMAZONE	FCG	1913	1916	1917	1935	
SC5	O'BYRNE	S	1917	1919	1922	1935	
SC6	H. FOURNIER	S	1917	1919	1923	1935	
SC7	L.D. THOUARS	S	1917	1920	1923	1928	

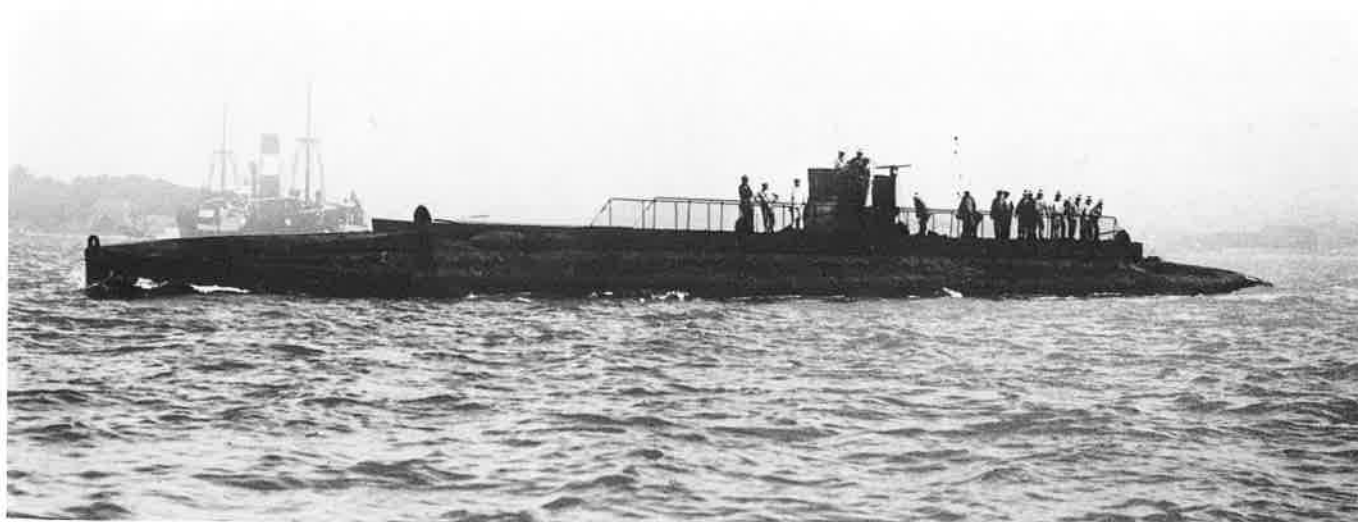
ARMIDE



ARMIDE



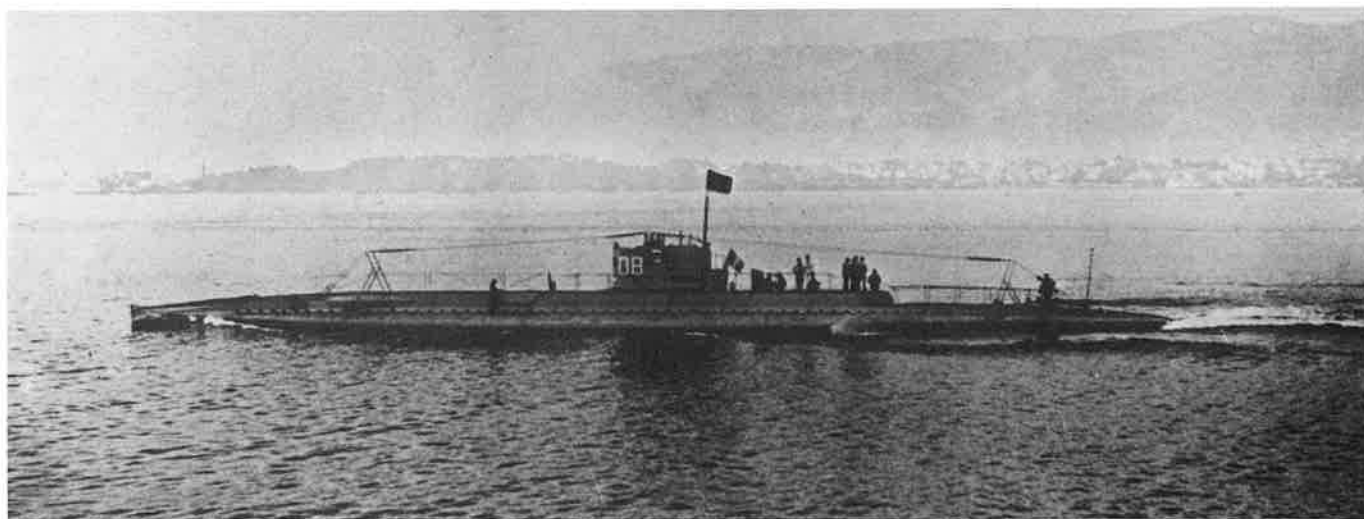
ANTIGONE



AMAZONE



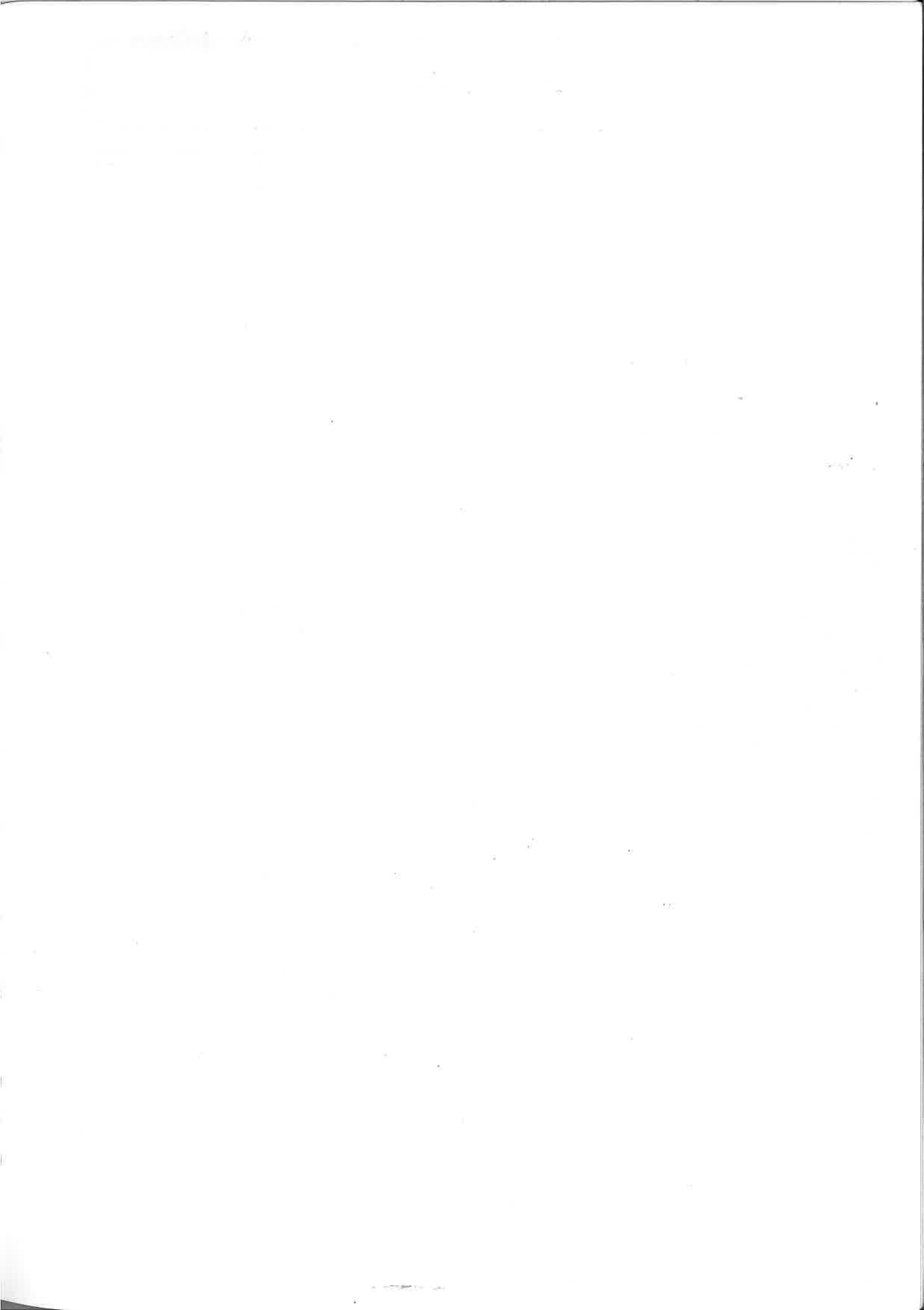
ARMIDE



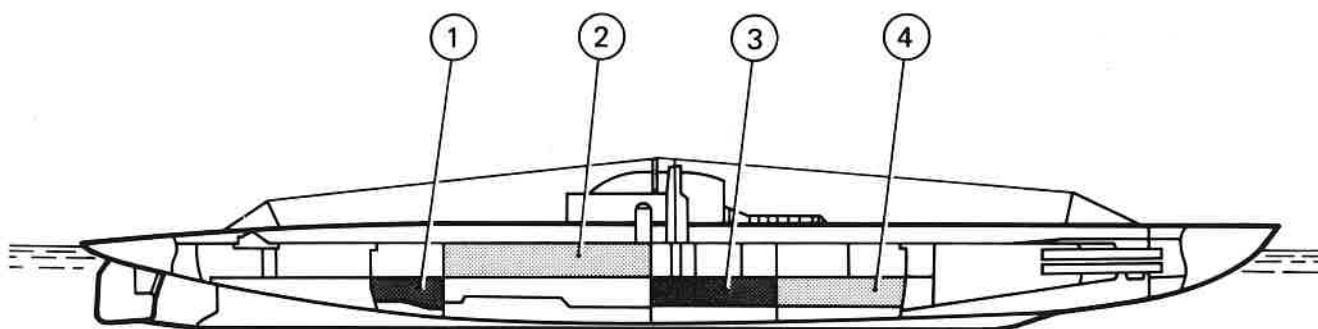
O'BYRNE



HENRI FOURNIER



REQUIN



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 974 t
 Submerged displacement: 1441 t
 Length: 78.25 m
 Armament: 10 × 550 TTs
 1 × 100 mm gun
 2 × 800 mm machine-guns

HISTORICAL DATA

Ordered the 30-06-1923 - Designer: Roquebert

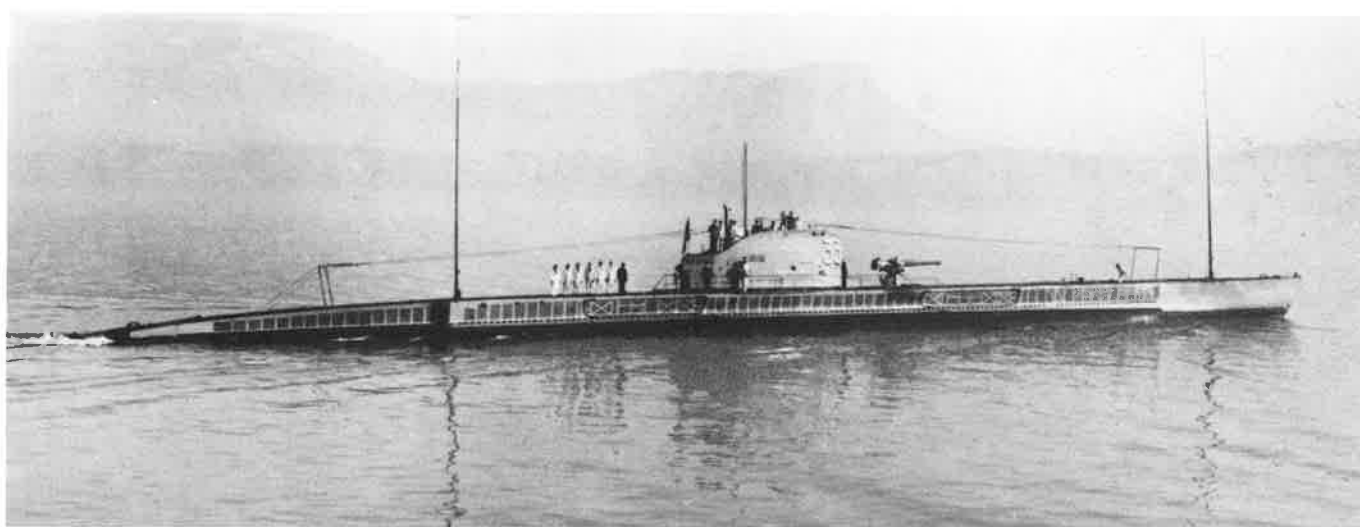
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 115	REQUIN	Ch	1923	1924	1926	1942	captured at Bizerte
Q 116	SOUFFLEUR II	Ch	1923	1924	1926	1941	torpedoed
Q 117	MORSE II	Ch	1923	1925	1927	1940	mine blown up
Q 118	NARVAL II	Ch	1923	1925	1926	1940	mine blown up
Q 119	MARSOUIN	Br	1923	1924	1926	1946	laid up
Q 120	DAUPHIN II	To	1923	1925	1927	1942	captured at Bizerte
Q 127	CAIMAN	Ch	1924	1927	1927	1942	scuttled
Q 128	PHOQUE II	Br	1924	1926	1927	1942	captured at Bizerte
Q 129	ESPADON II	To	1924	1926	1927	1942	captured at Bizerte



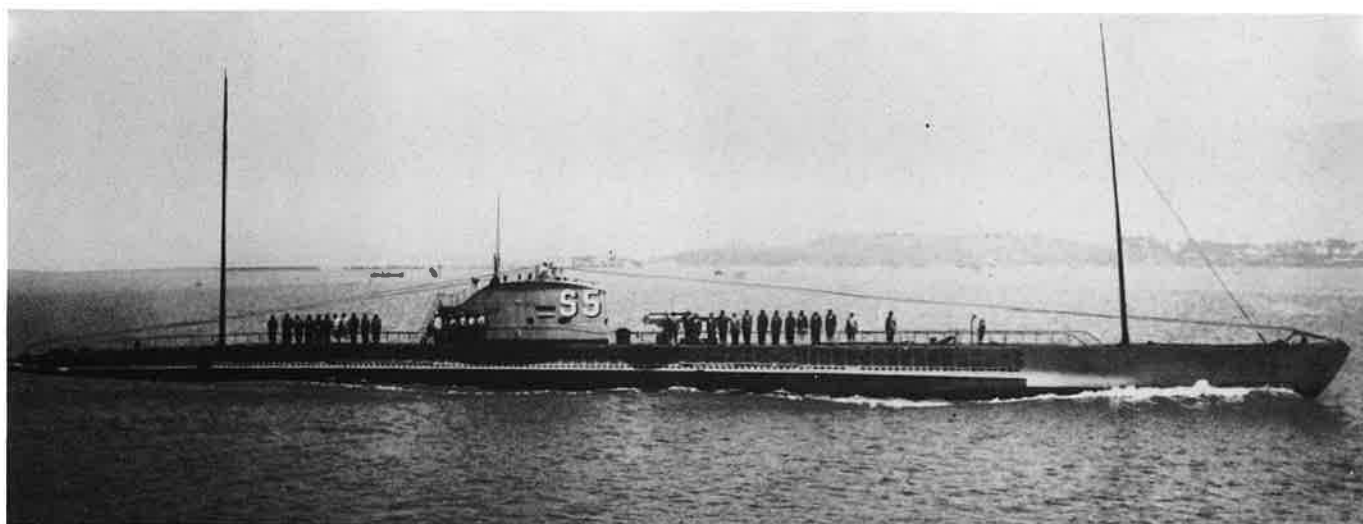
REQUIN



REQUIN



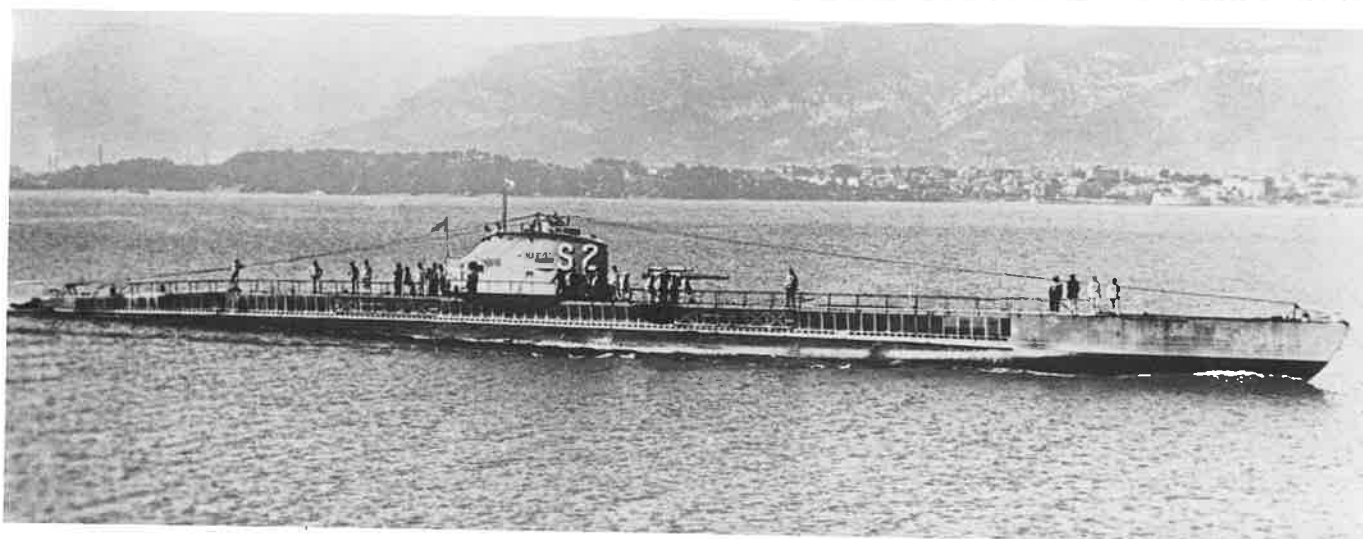
SOUFFLEUR II



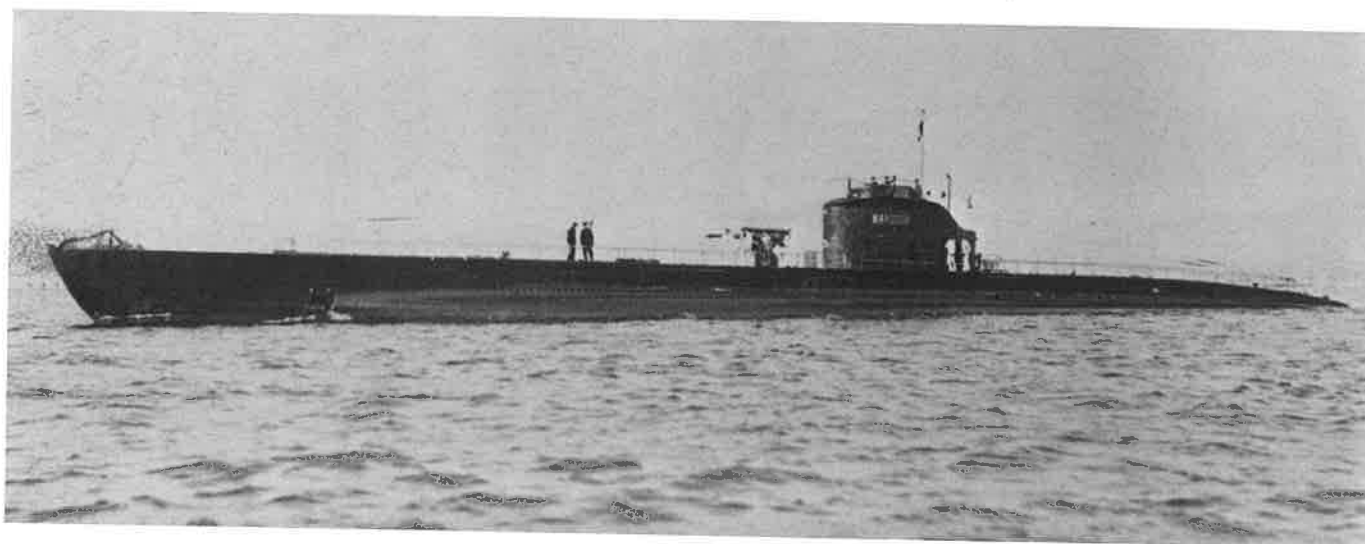
MORSE II



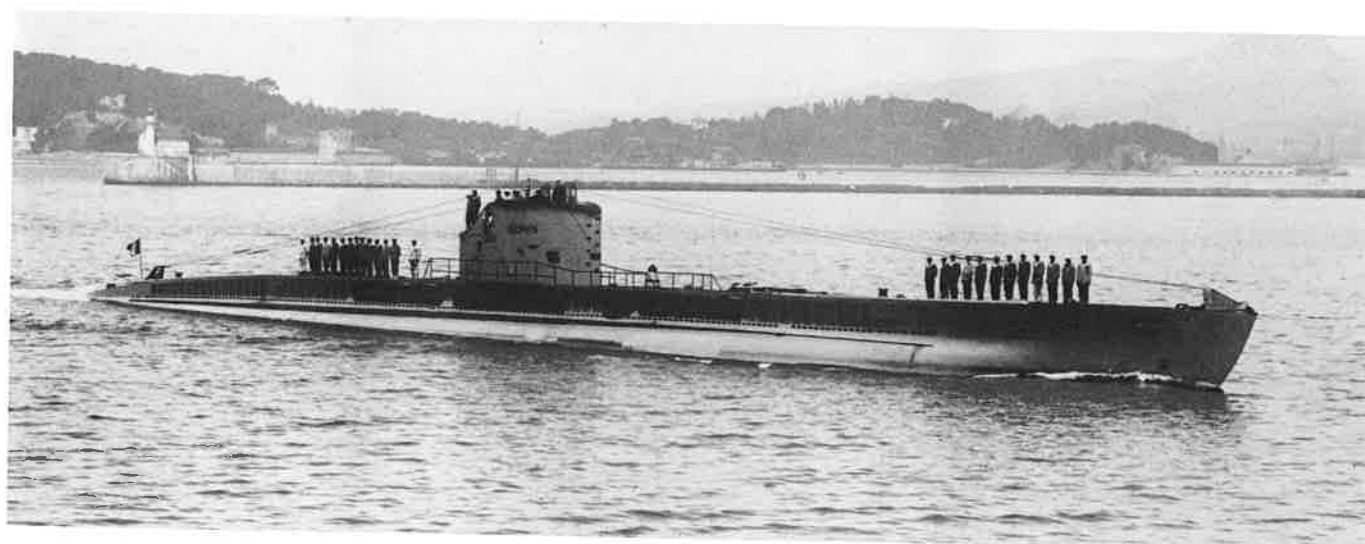
REQUIN



NARVAL II



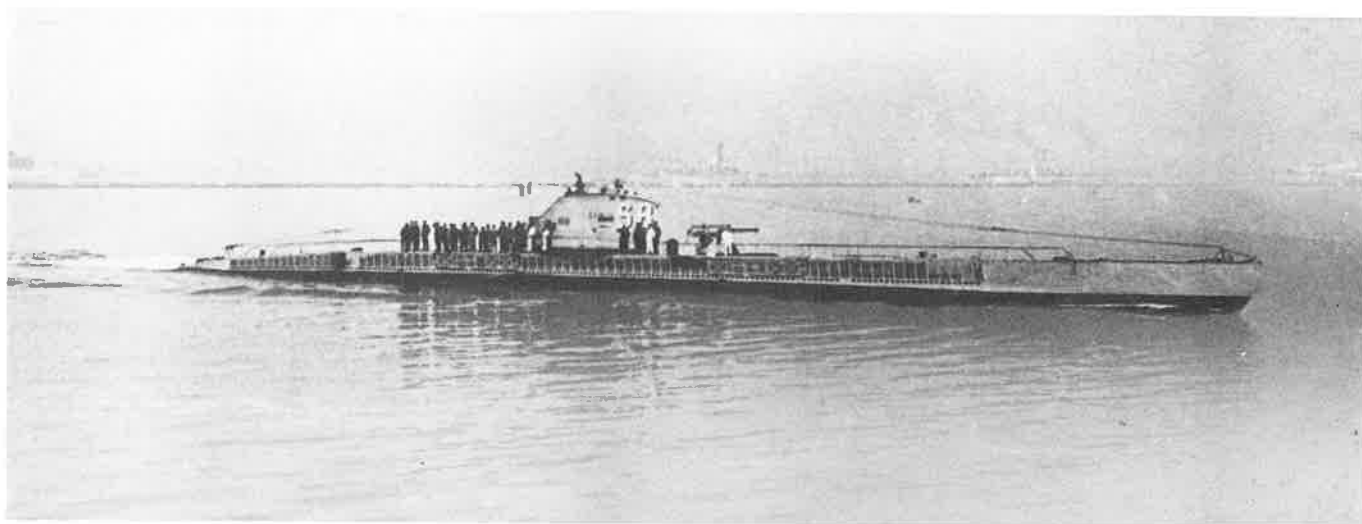
MARSOUIN



DAUPHIN II



REQUIN



CAIMAN



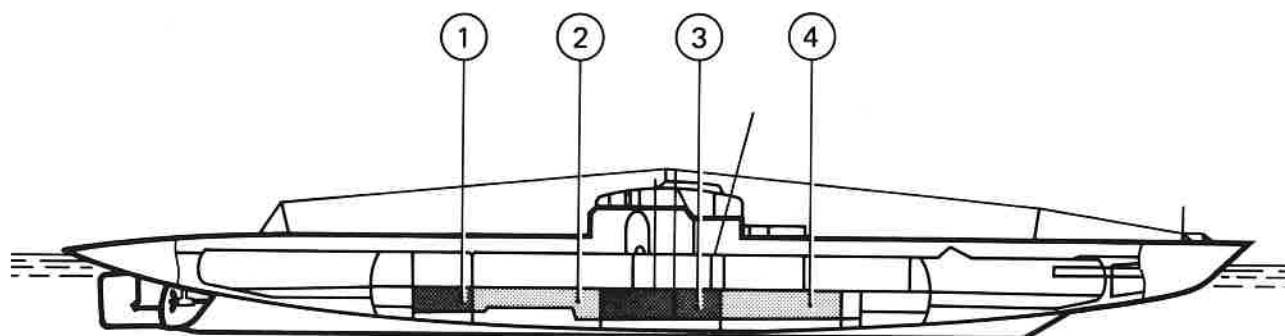
PHOQUE II



ESPADON II



ONDINE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 626 t
 Submerged displacement: 787 t
 Length: 65.98 m
 Armament: 7 × 550 TLs

HISTORICAL DATA

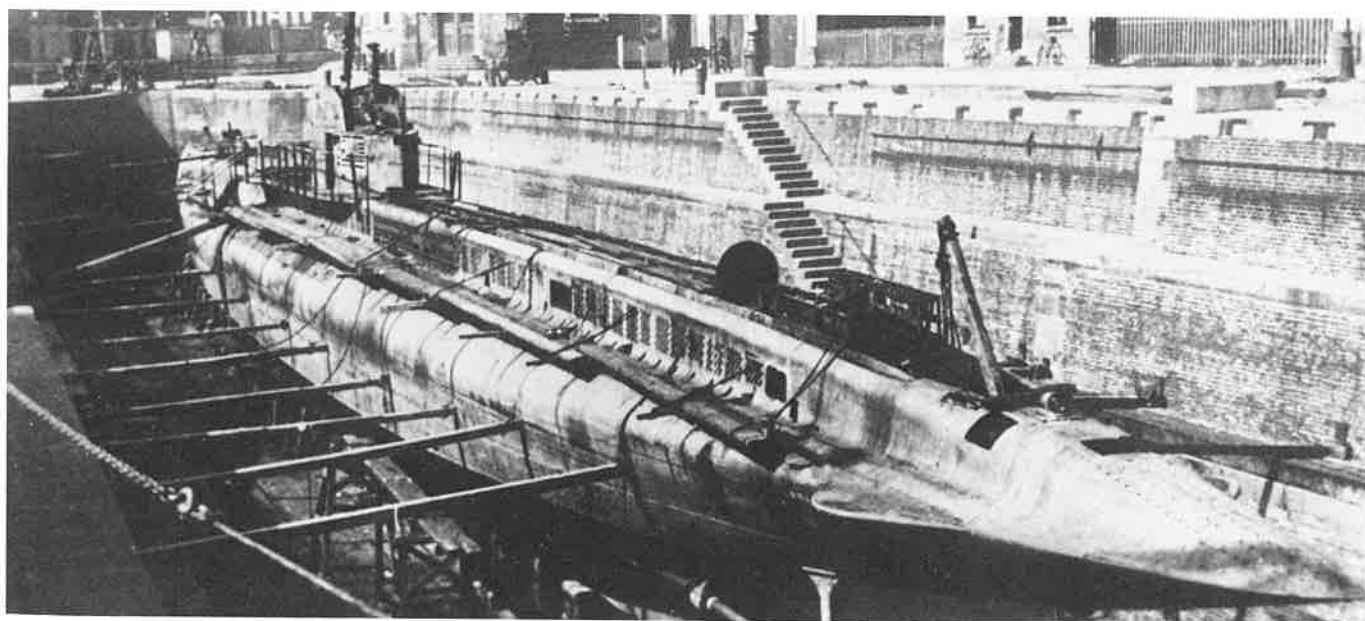
Ordered the 30-06-1923 - Designer: Fenaux

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 121	ONDINE	N	1923	1925	1928	1928	collided
Q 122	ARIANE II	N	1923	1925	1928	1942	sunk
Q 130	EURYDICE	N	1923	1925	1929	1942	scuttled
Q 131	DANAE	N	1923	1927	1929	1942	sunk

ONDINE



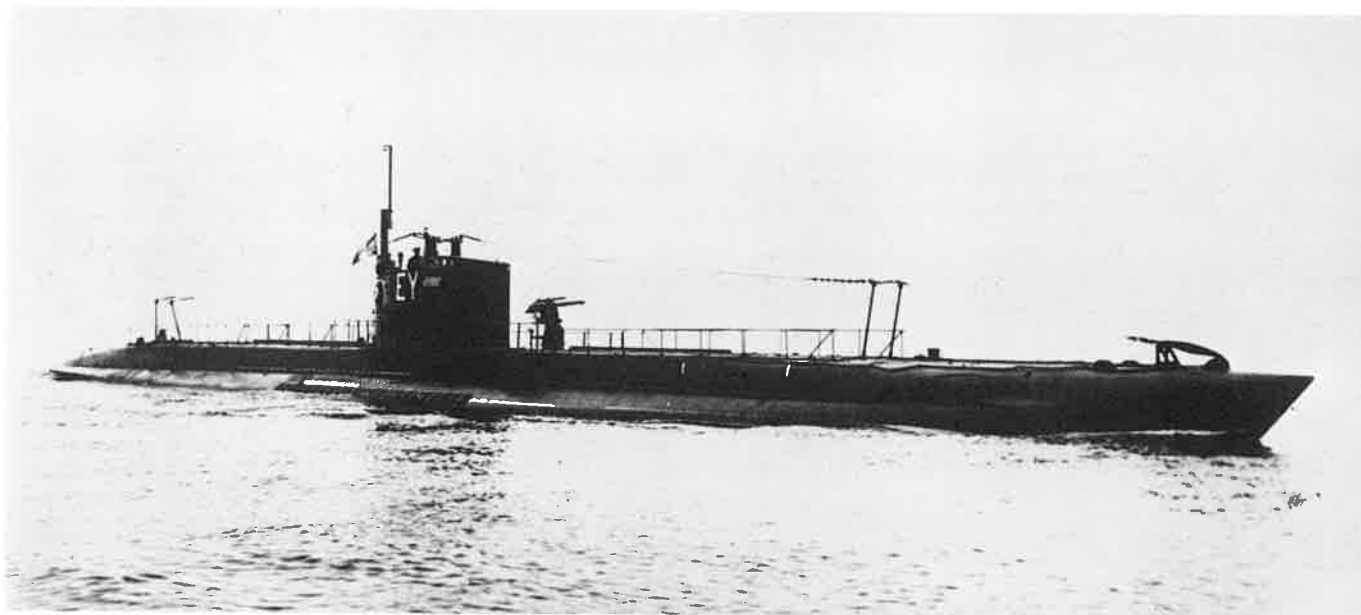
ONDINE



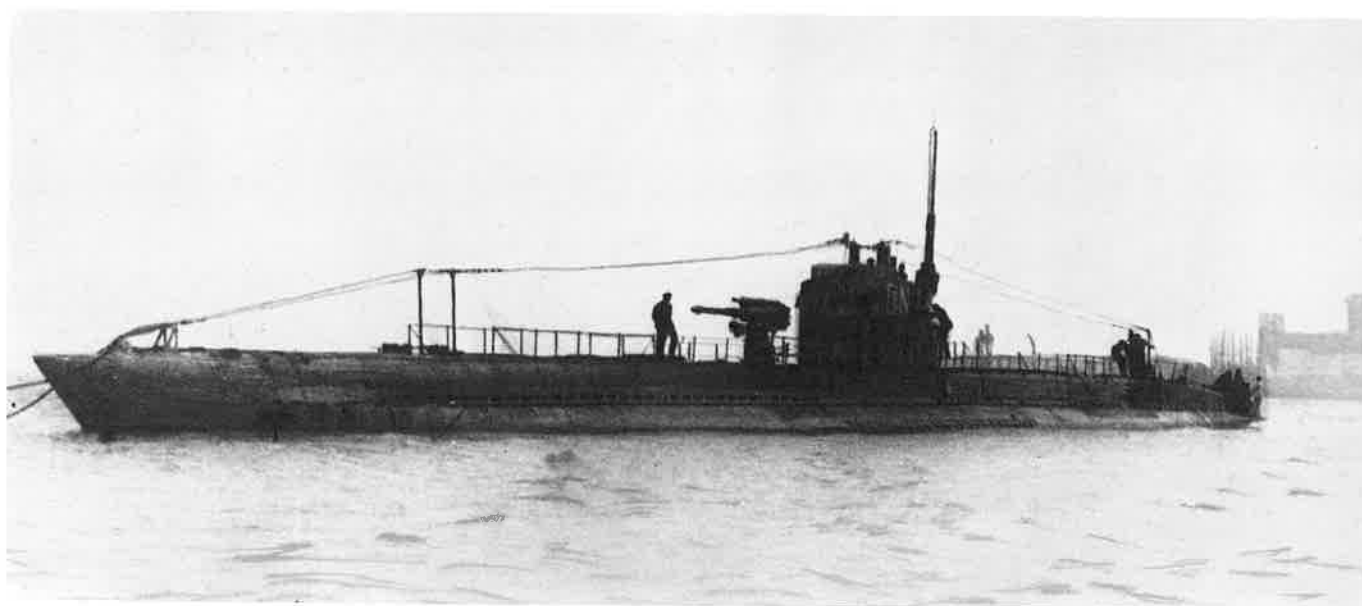
ARIANE II



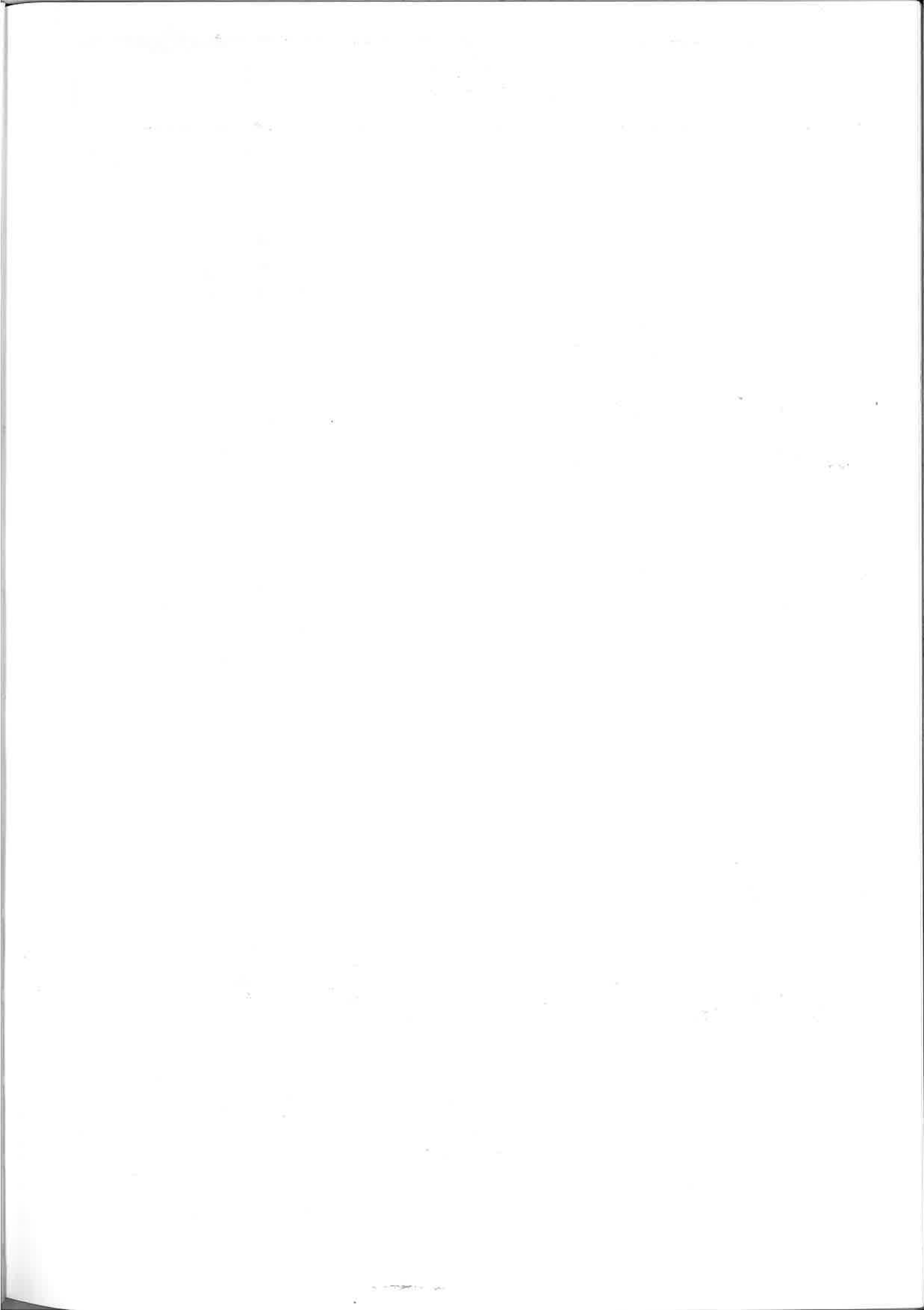
ONDINE



EURYDICE

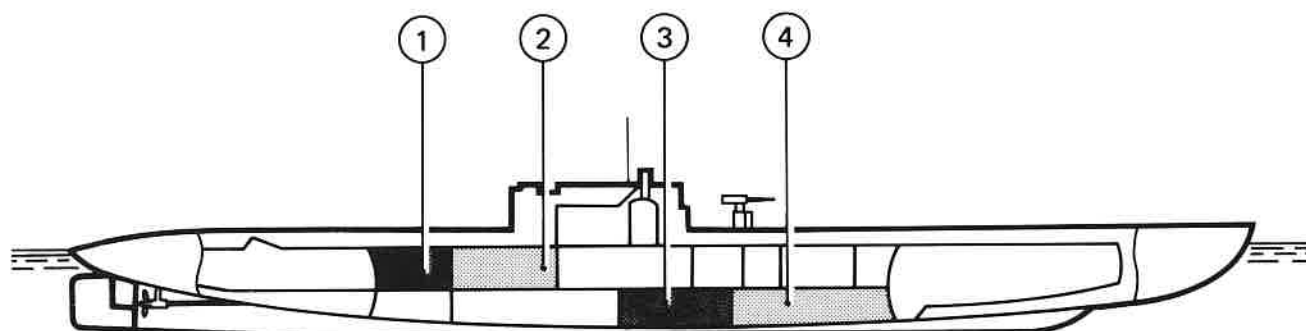


DANAE





SIRENE II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

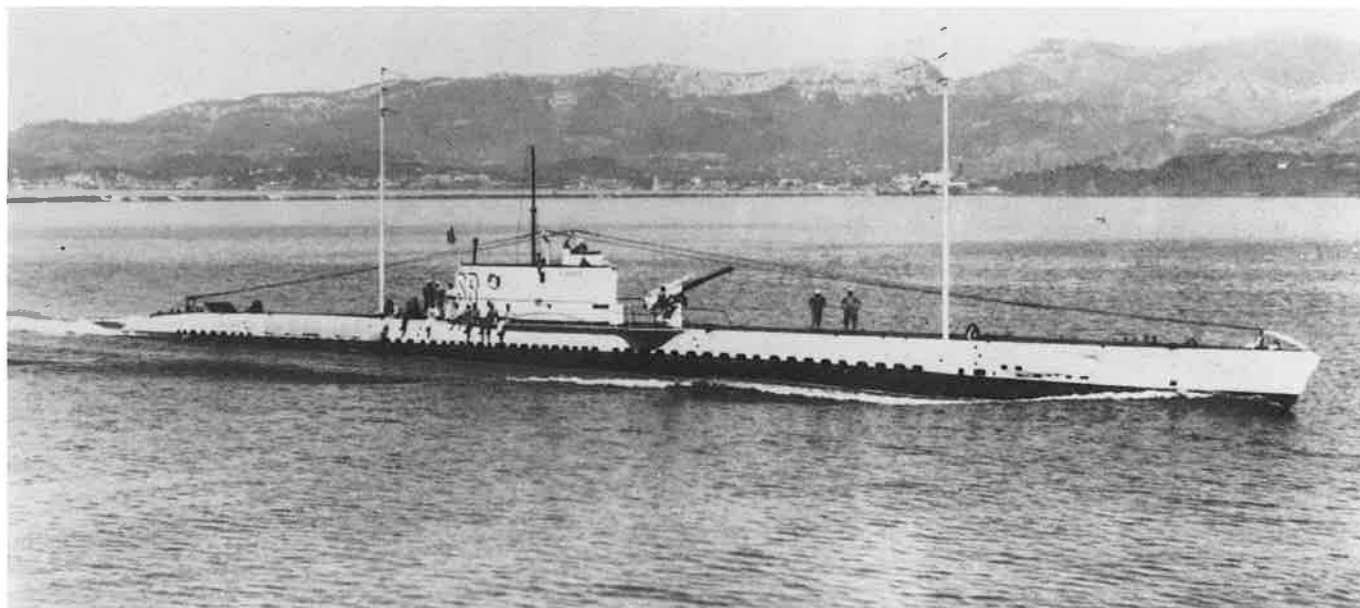
Surface displacement: 609 t
 Submerged displacement: 757 t
 Length: 64 m
 Armament: 7 TTs
 8 × 550 torpedoes
 1 × 75 mm gun
 2 × 8 mm machine-guns

HISTORICAL DATA

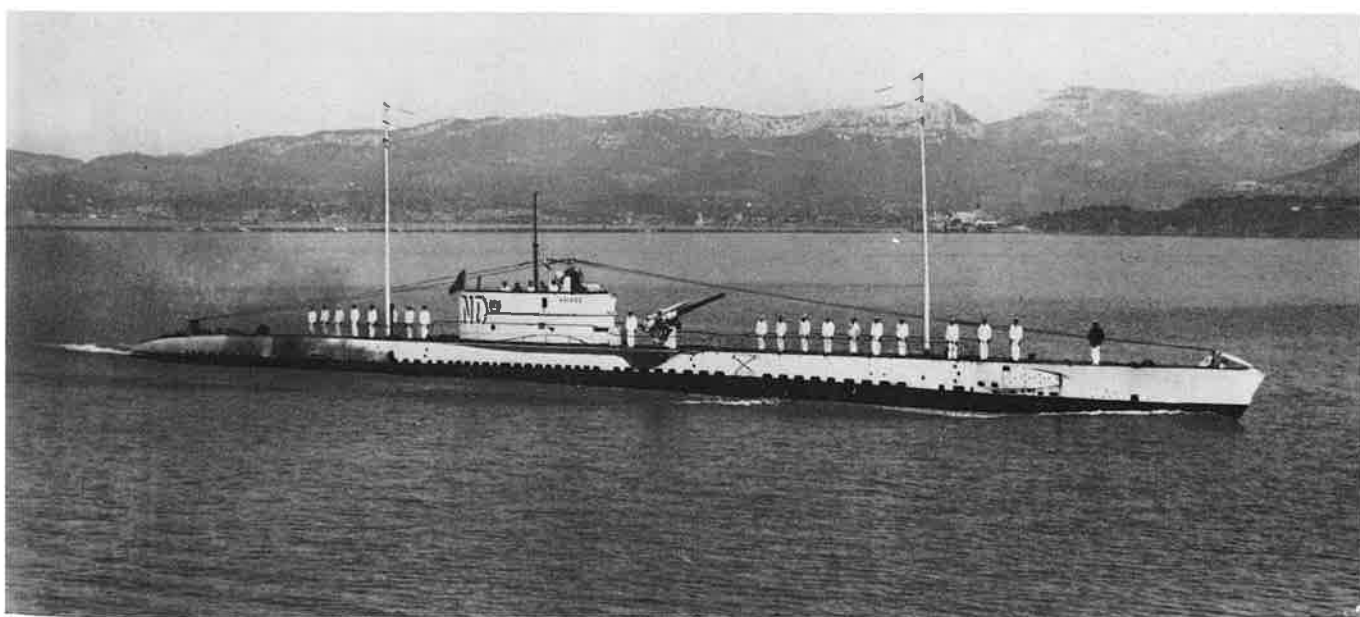
Ordered the 30-06-1923 - Designer: Simonot

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 123	SIRENE II	AcI	1923	1925	1927	1942	scuttled
Q 124	NAIADE II	AcI	1923	1925	1927	1942	scuttled
Q 132	GALATEE	AcI	1923	1925	1927	1942	scuttled
Q 133	NYMPHE	AcI	1923	1926	1927	1938	laid up

SIRENE II



SIRENE II

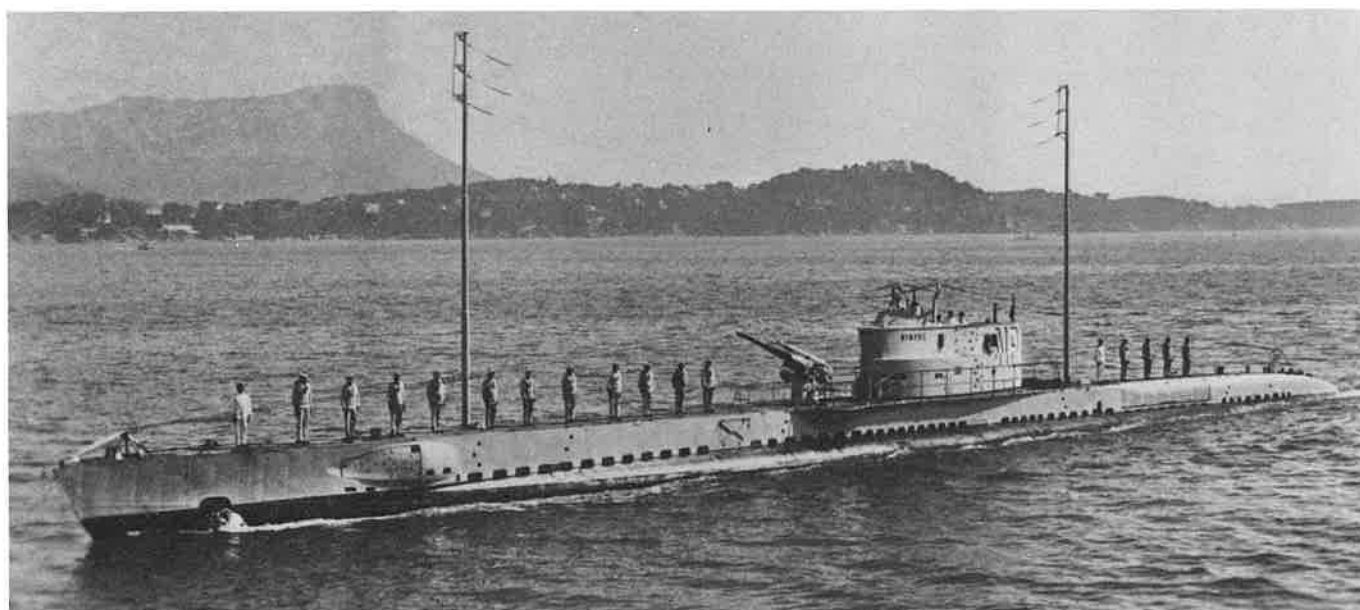


NAIADE II

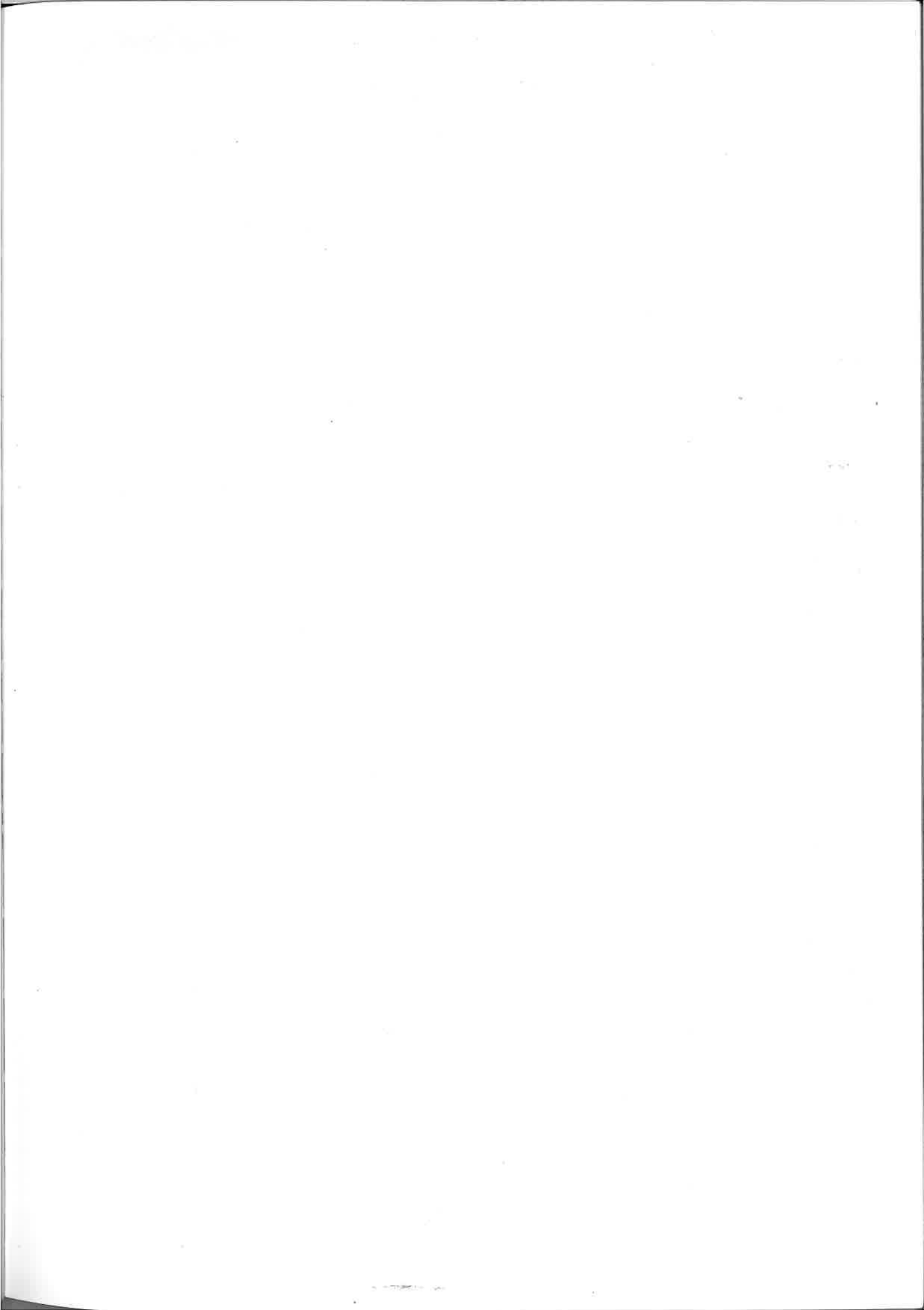
SIRENE II



GALATEE

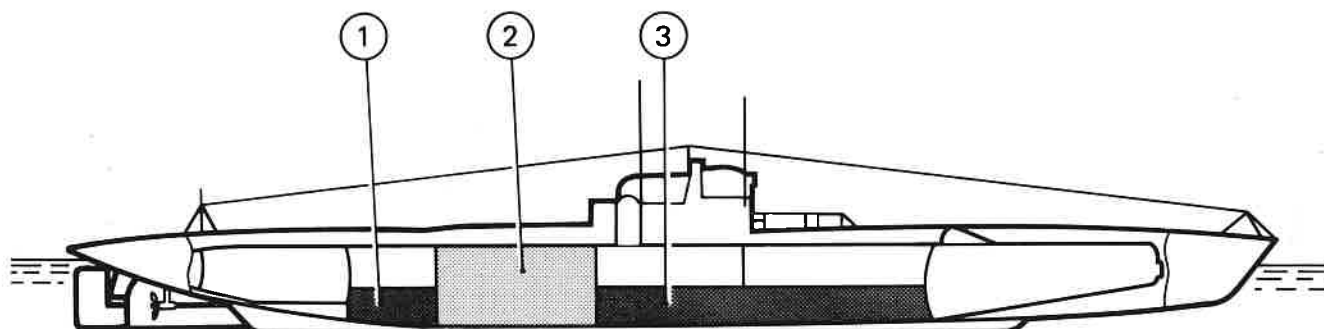


NYMPHE





CIRCE II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

CHARACTERISTICS

Surface displacement: 615 t
 Submerged displacement: 776 t
 Length: 62.48 m
 Armament: 7 × 550 TTs
 1 × 75 mm gun
 2 × 8 mm machine-guns

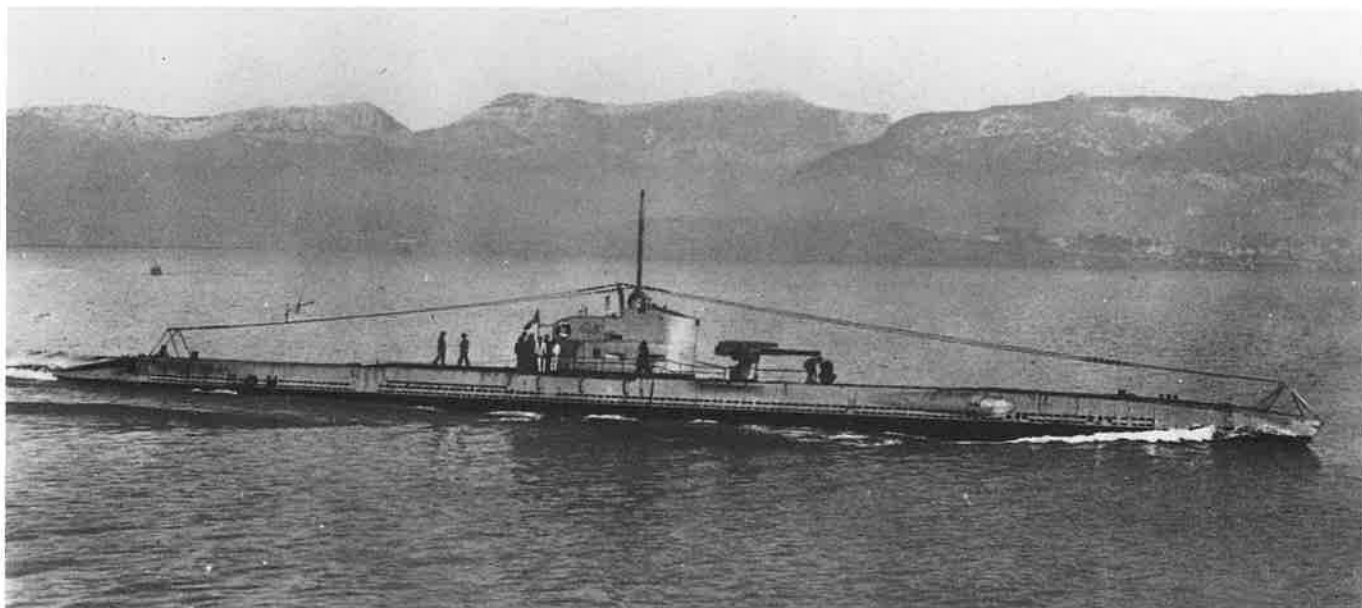
HISTORICAL DATA

Ordered the 30-06-1923 - Designer: Laubeuf

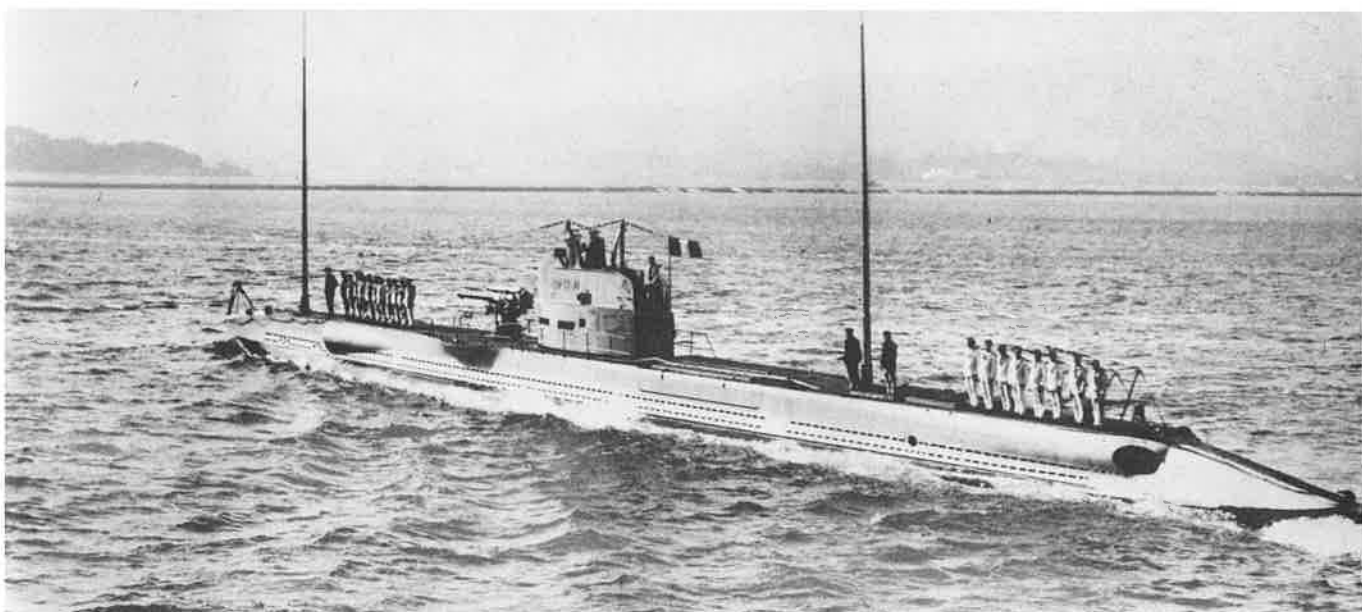
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 125	CIRCE II	S	1923	1925	1929	1942	captured at Bizerte
Q 126	CALYPSO II	S	1923	1926	1929	1942	captured at Bizerte
Q 134	THETIS	S	1923	1927	1929	1942	scuttled
Q 135	DORIS	S	1923	1927	1930	1940	torpedoed



CIRCE II

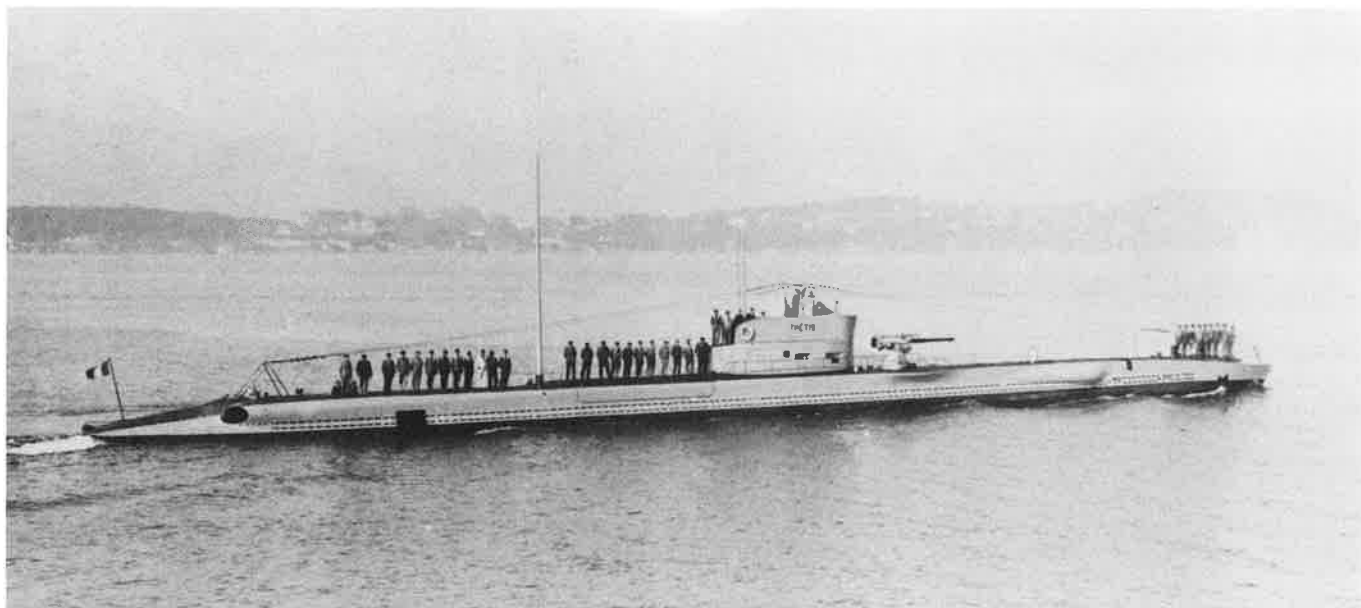


CIRCE II

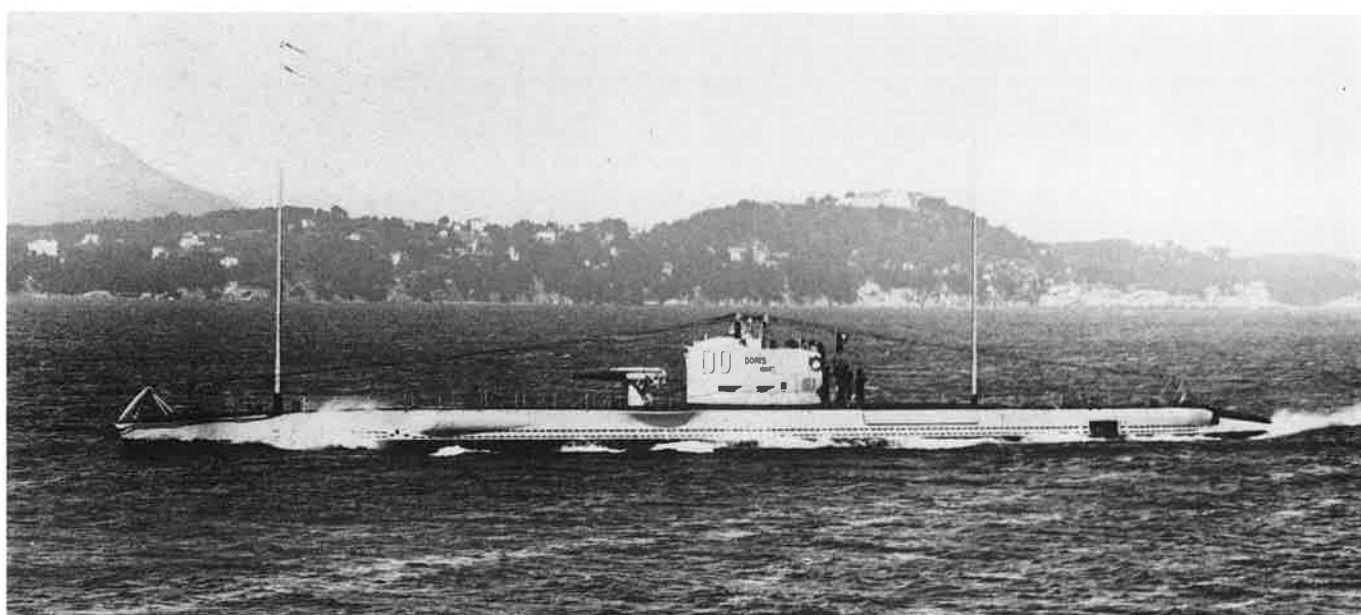


CALYPSO II

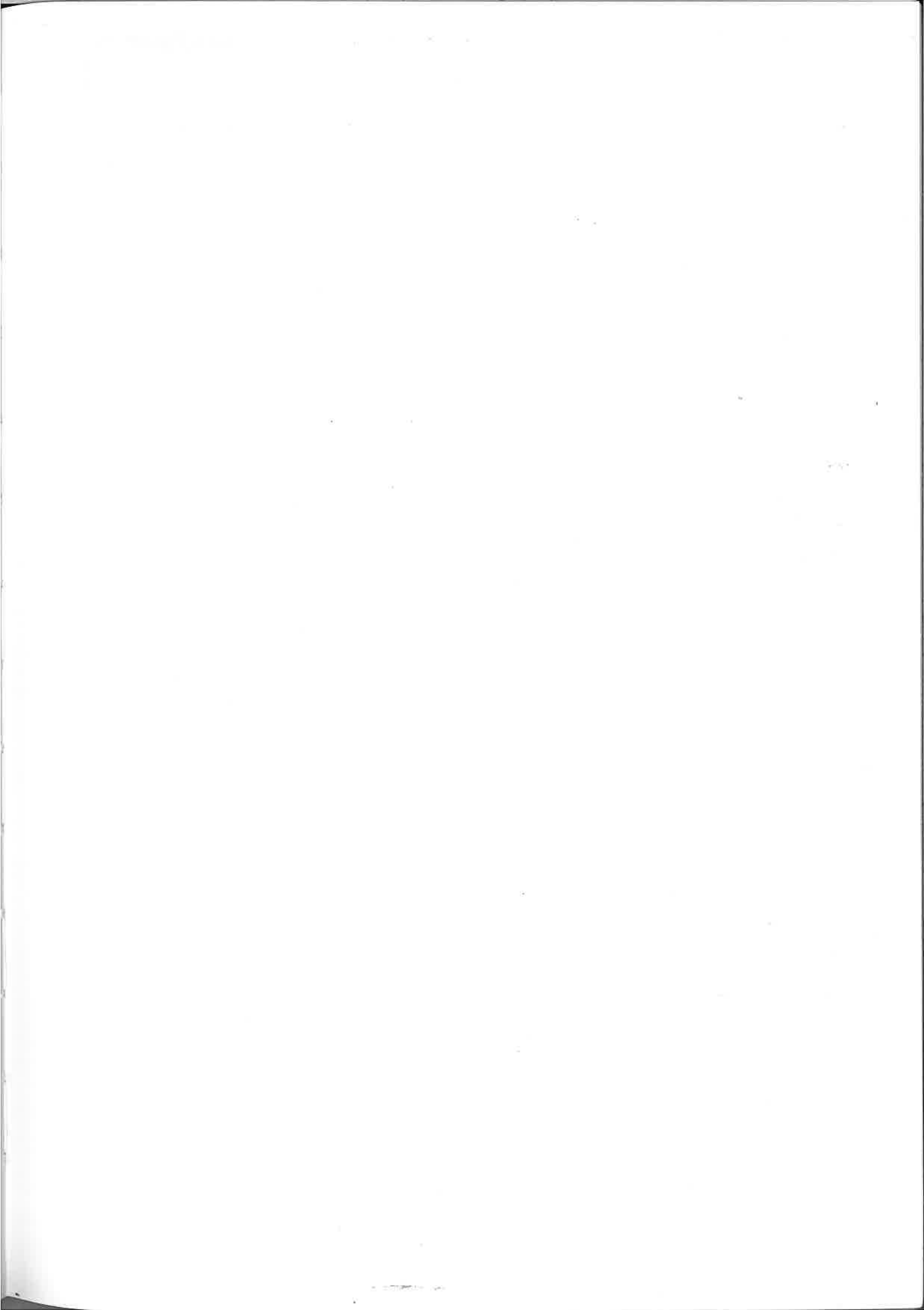
CIRCE II



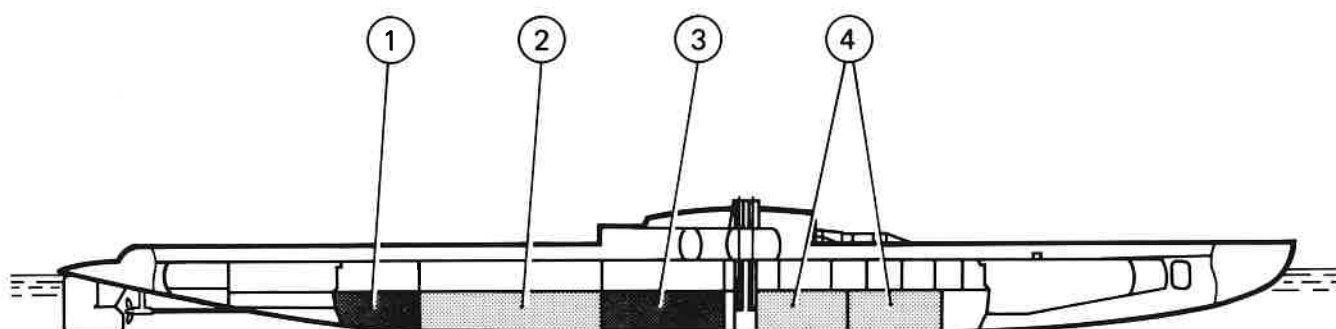
THETIS



DORIS



REDOUTABLE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Electric generator unit
- 4 – Batteries

CHARACTERISTICS

Surface displacement: 1570 t
 Submerged displacement: 2084 t
 Length: 92.30 m
 Armament: 9 × 550 mm TTs
 2 × 400 mm TTS
 1 × 100 mm gun
 2 × 13.2 mm machine-guns

HISTORICAL DATA

First class long patrol submarines, called "1500 tonnes".

Ordered from 1924 to 1930 - Designer: Roquebert

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 136	REDOUTABLE	Ch	1924	1928	1931	1942	scuttled
Q 137	VENGEUR	Ch	1924	1928	1931	1942	scuttled
Q 138	PASCAL	Br	1925	1928	1931	1942	scuttled
Q 139	PASTEUR	Br	1925	1928	1932	1940	scuttled
Q 140	H. POINCARÉ	Lo	1925	1929	1931	1942	scuttled
Q 141	PONCELET	Lo	1925	1929	1932	1940	sunk
Q 142	ARCHIMEDE II	CNF	1927	1930	1932	1952	laid up
Q 143	FRESNEL II	P	1927	1929	1931	1942	scuttled
Q 144	MONGE II	FCM	1927	1929	1932	1942	sunk
Q 147	ACHILLE	Br	1927	1930	1932	1940	scuttled

REDOUTABLE

HISTORICAL DATA (CONTINUED)

The CASABLANCA was renamed CASABIANCA in 1934.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 148	AJAX	Br	1927	1930	1933	1940	scuttled
Q 149	ACTEON	ACL	1927	1929	1931	1942	sunk
Q 150	ACHERON	ACL	1927	1929	1931	1942	scuttled
Q 151	ARGO	FCM	1927	1929	1931	1946	laid up
Q 153	PROMETHEE	Ch	1928	1930	—	1932	sunk during trials
Q 154	PERSEE	CNF	1928	1931	1933	1940	sunk
Q 155	PROTEE II	FCM	1928	1930	1932	1943	sunk
Q 156	PEGASE	ACL	1928	1930	1932	1950	laid up
Q 157	PHENIX	D	1928	1930	1932	1939	sunk
Q 167	L'ESPOIR	Ch	1929	1931	1932	1942	scuttled
Q 168	LE GLORIEUX	Ch	1929	1931	1933	1952	laid up
Q 169	LE CENTAURE	Br	1929	1932	1934	1952	laid up
Q 170	LE HEROS	Br	1929	1932	1935	1942	sunk
Q 171	LE CONQUERANT	ACL	1930	1934	1935	1942	sunk
Q 172	LE TONNANT	FCM	1930	1934	1935	1942	scuttled
Q 178	AGOSTA	Ch	1930	1934	1935	1940	sunk
Q 179	BEVEZIER	Ch	1930	1935	1936	1942	sunk
Q 180	OUessant	Ch	1930	1936	1937	1940	scuttled
Q 181	SIDI-FERRUCH	Ch	1930	1937	1939	1942	sunk
Q 182	SFAX	ACL	1931	1934	1935	1040	sunk
Q 183	CASABLANCA	ACL	1931	1935	1935	1952	laid up

REDOUTABLE



REDOUTABLE

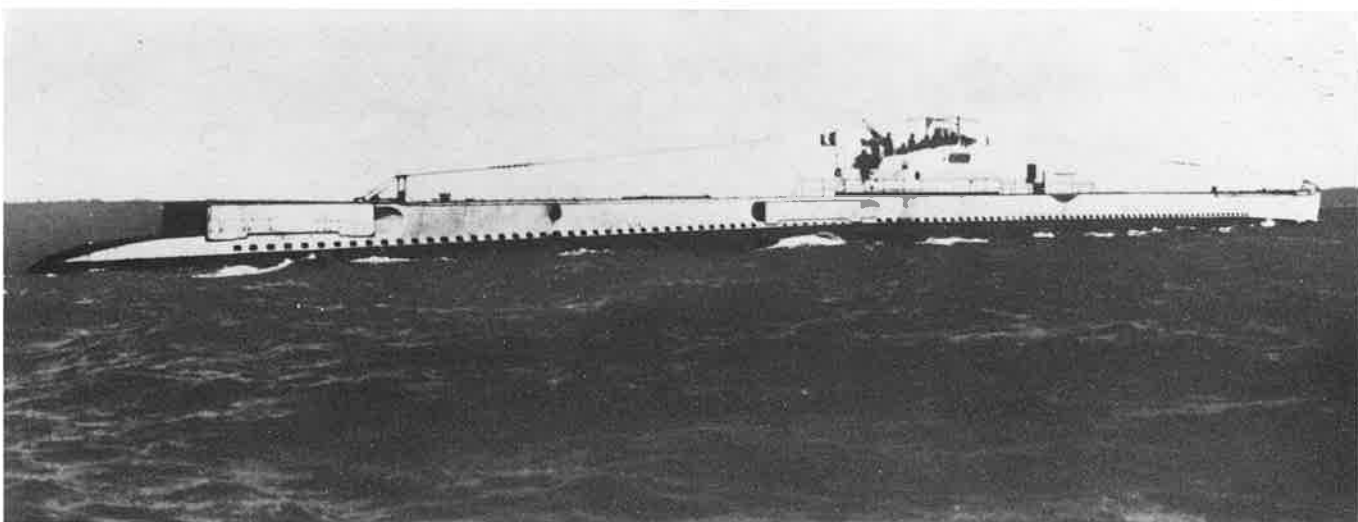


VENGEUR

REDOUTABLE



PASCAL

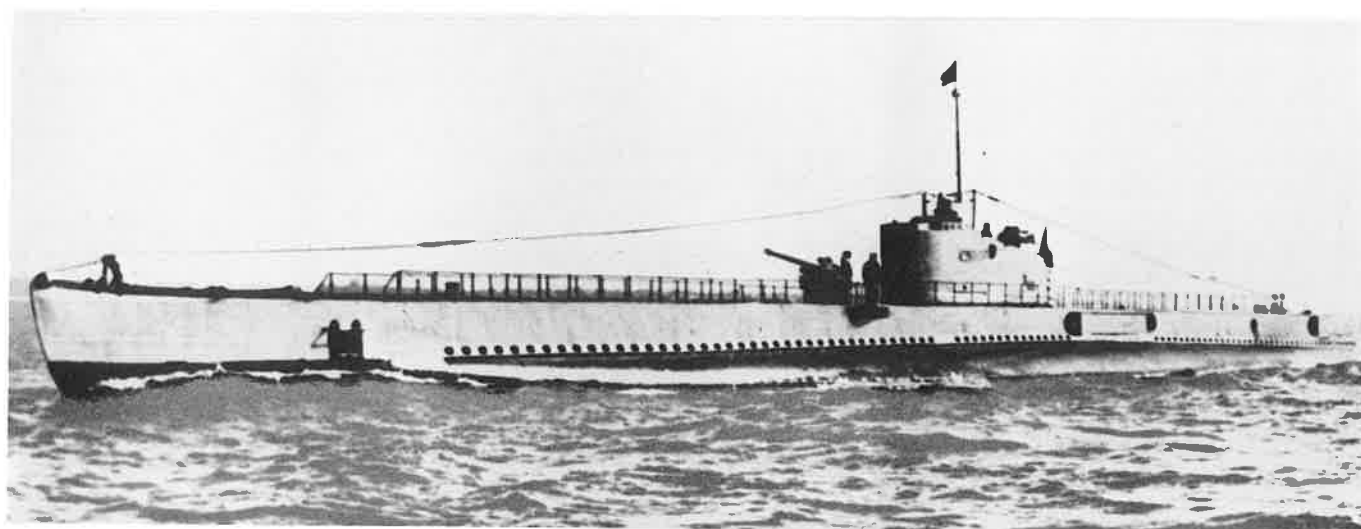


PASTEUR

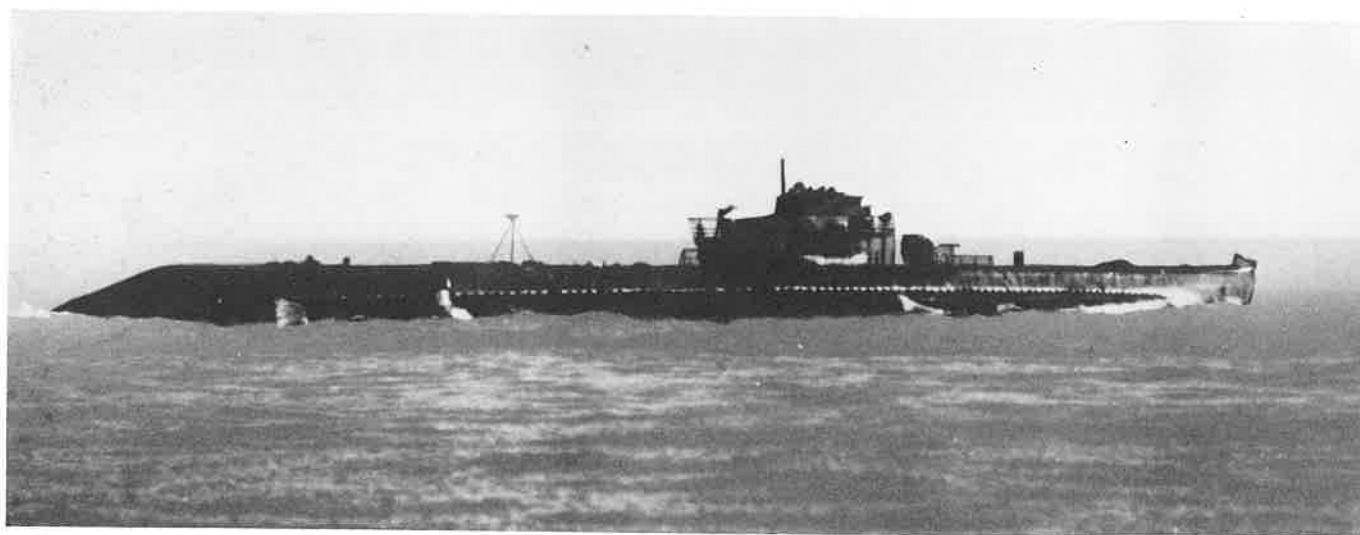


HENRI POINCARÉ

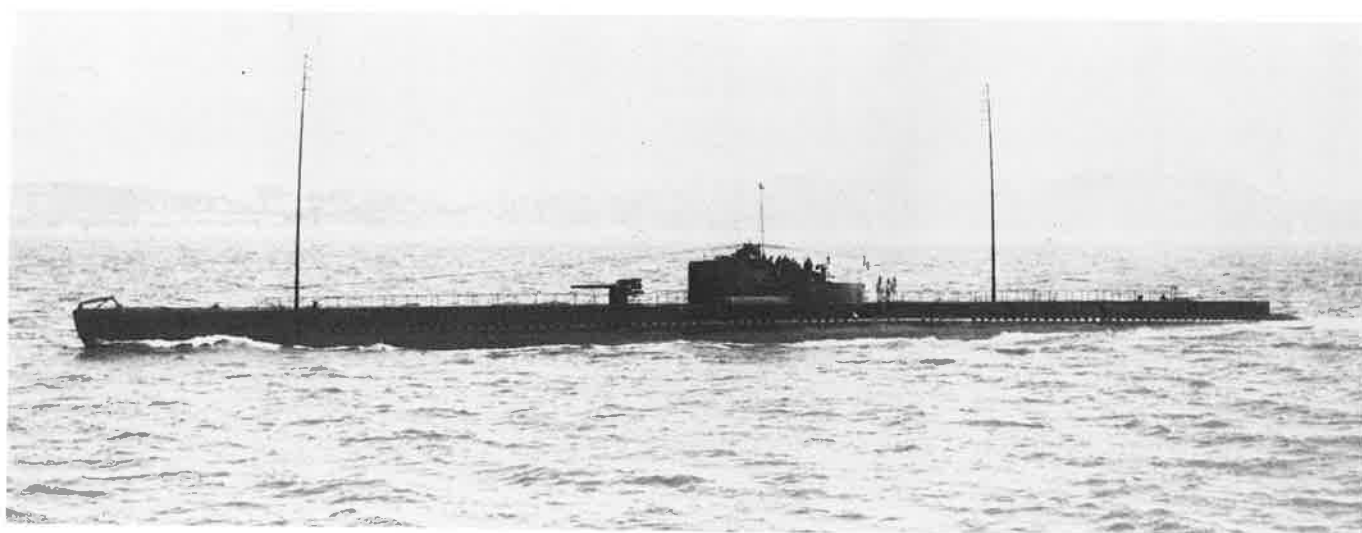
REDOUTABLE



PONCELET



ARCHIMEDE II



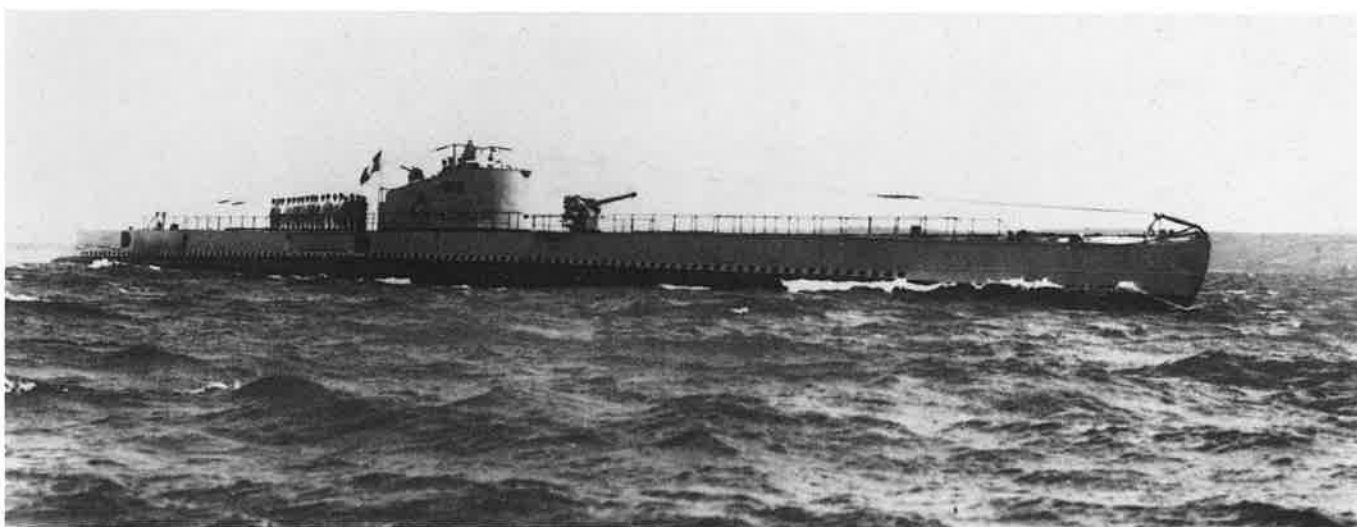
FRESNEL II



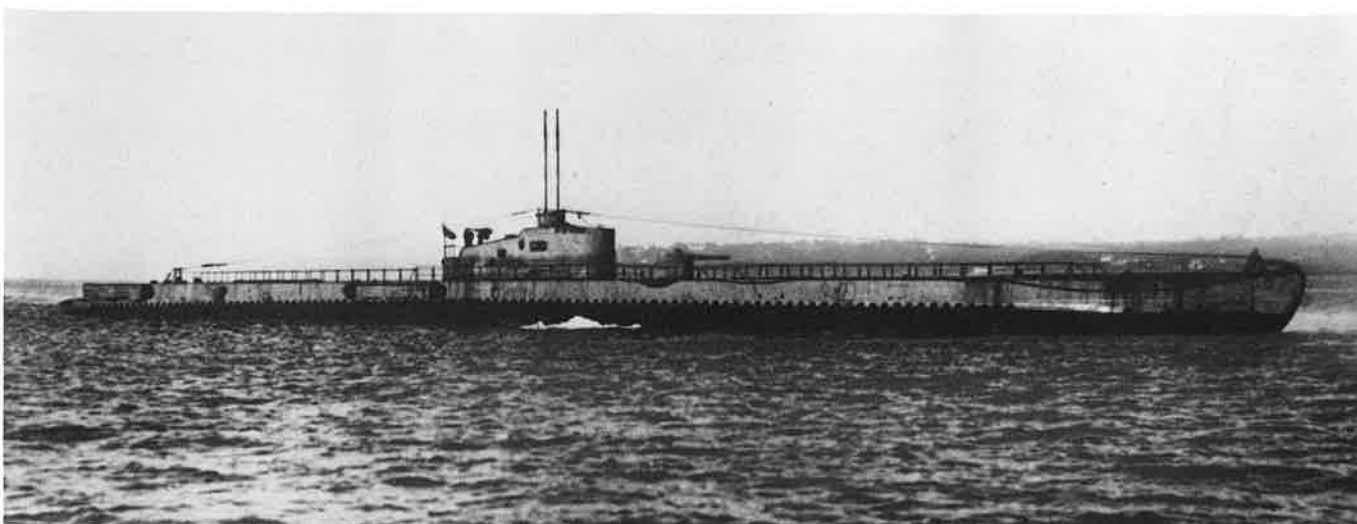
REDOUTABLE



MONGE II

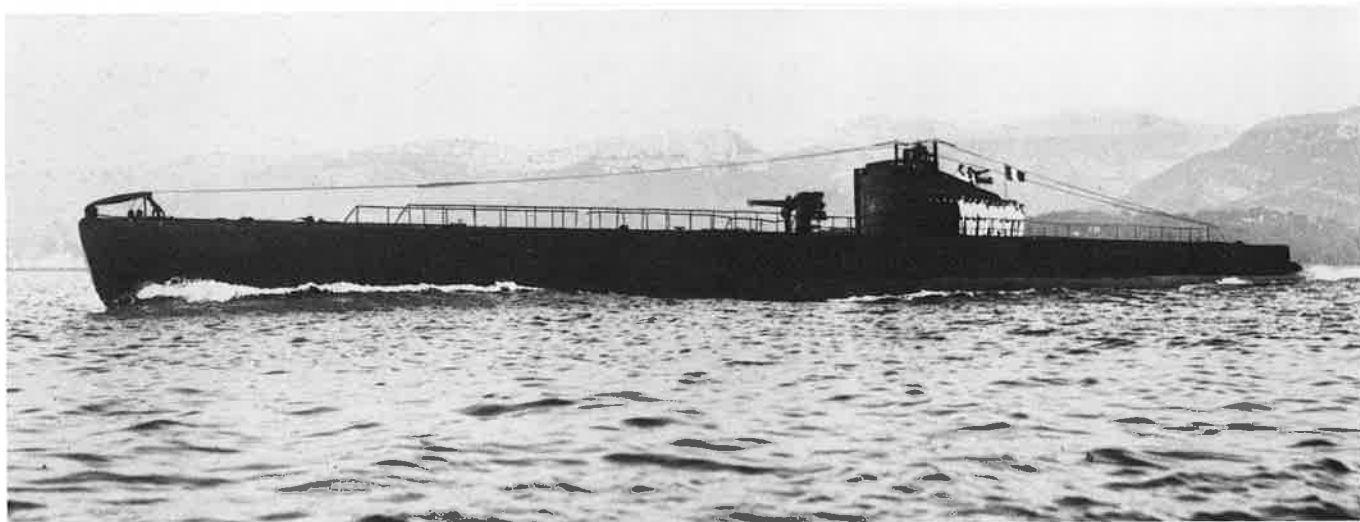


ACHILLE



AJAX

REDOUTABLE



ACTEON

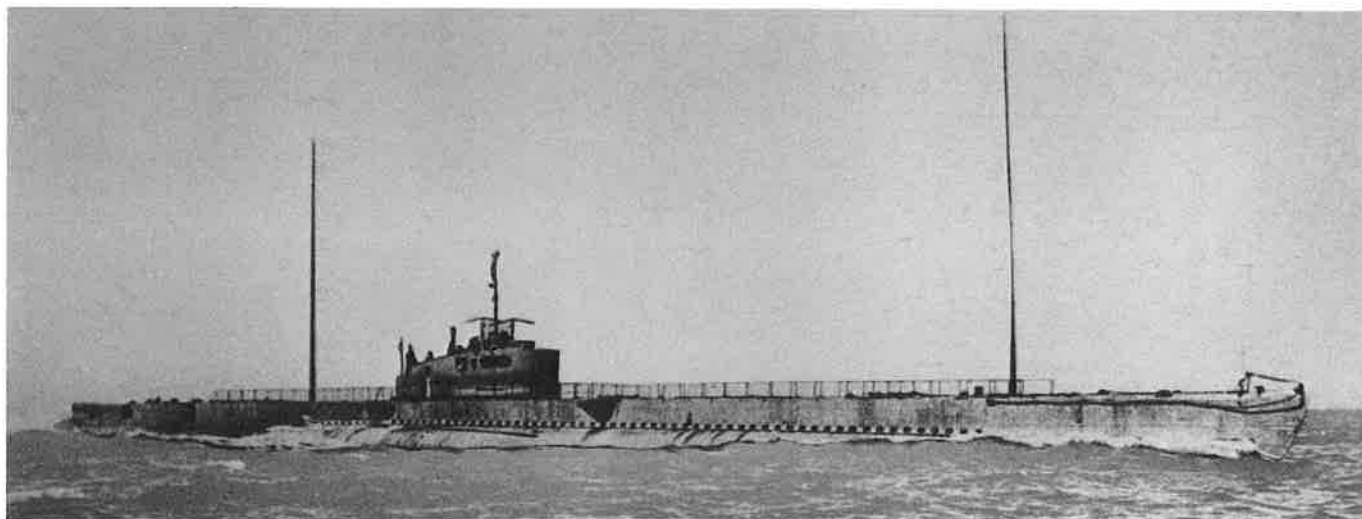


ACHERON

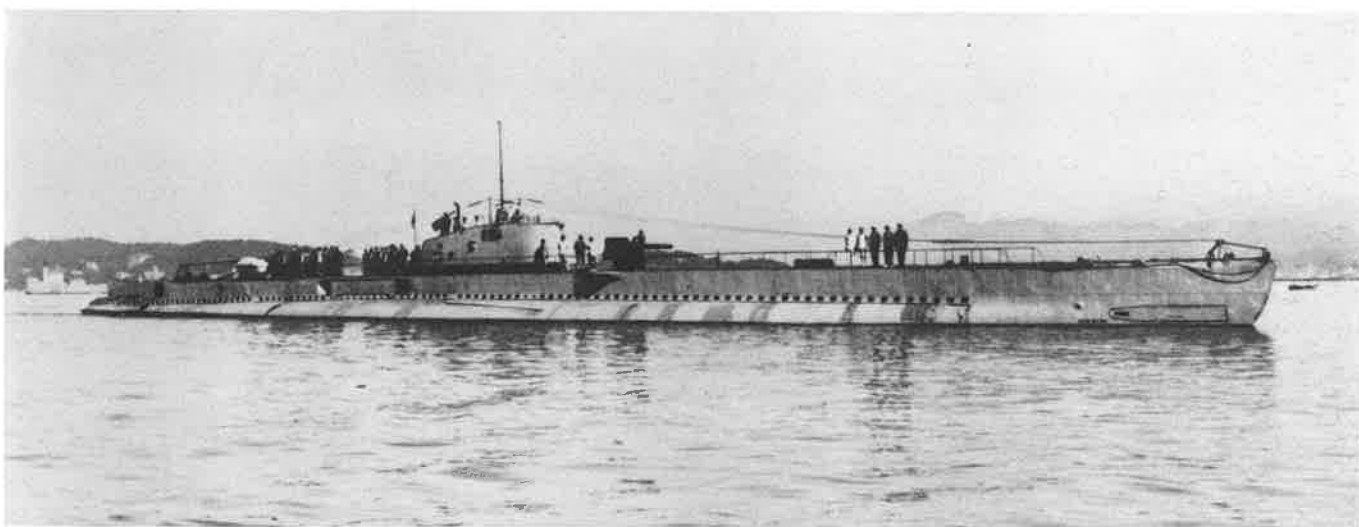


ARGO

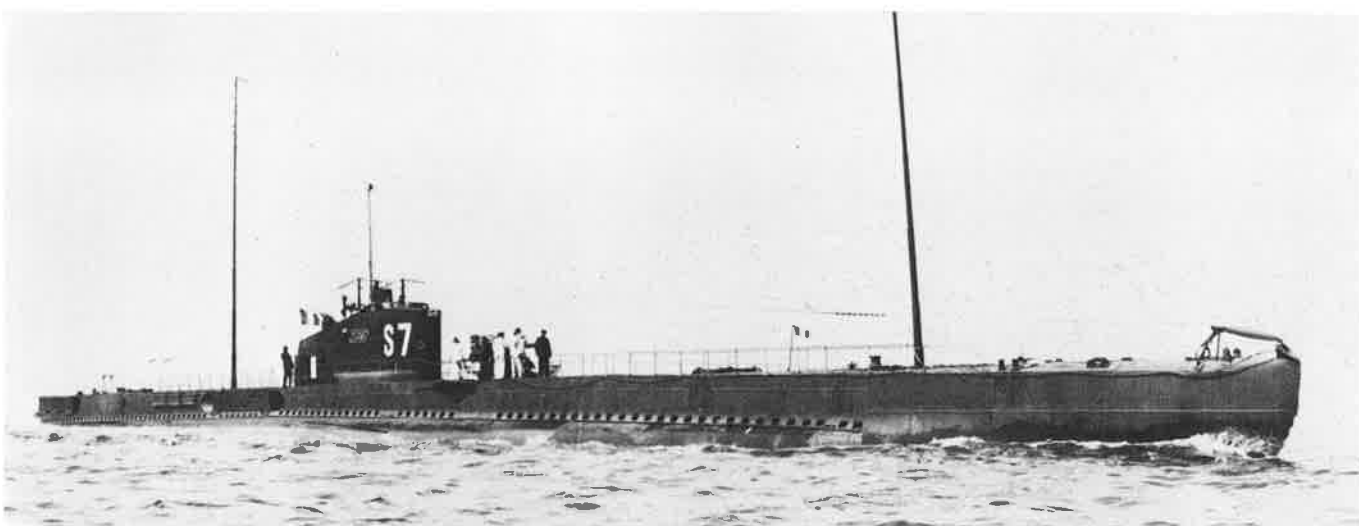
REDOUTABLE



PERSEE

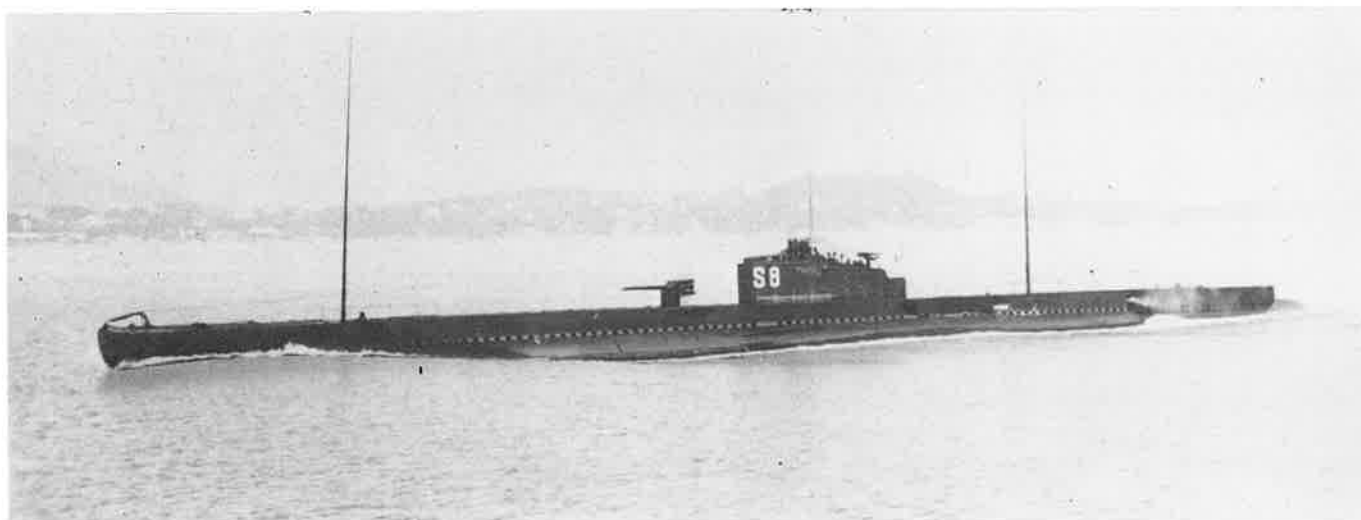


PROTEE II



PEGASE

REDOUTABLE



PHENIX

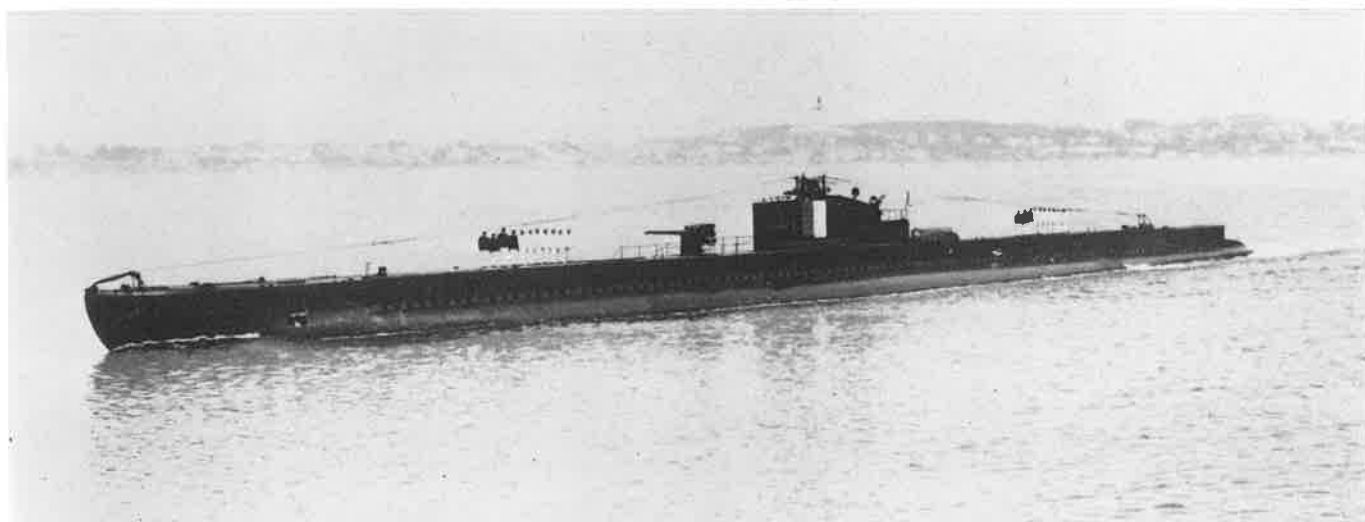


L'ESPOIR

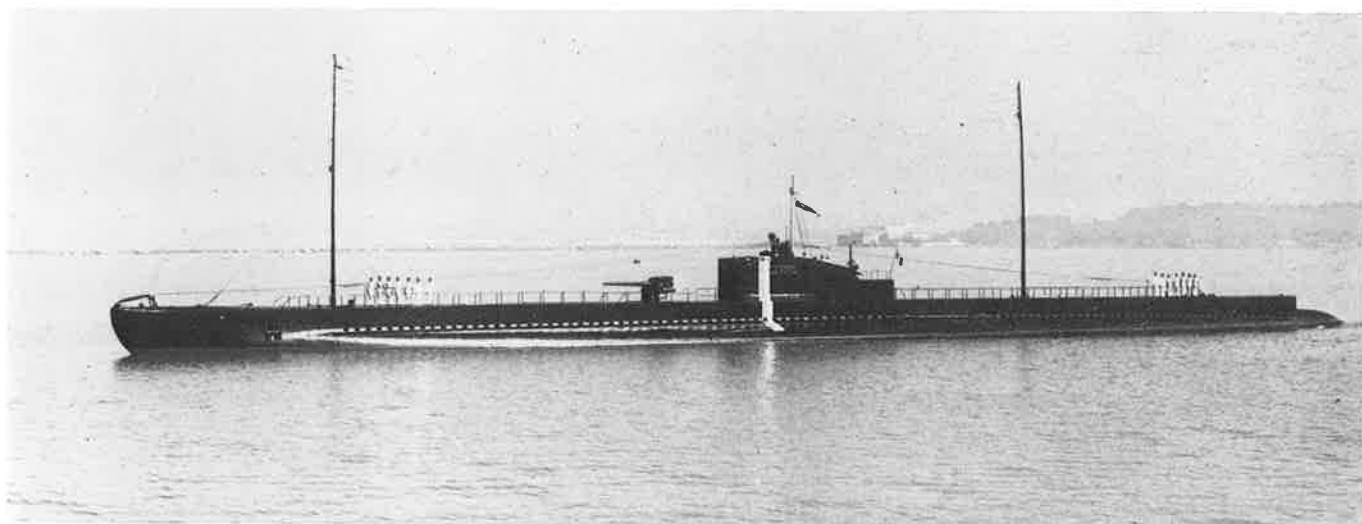


LE GLORIEUX

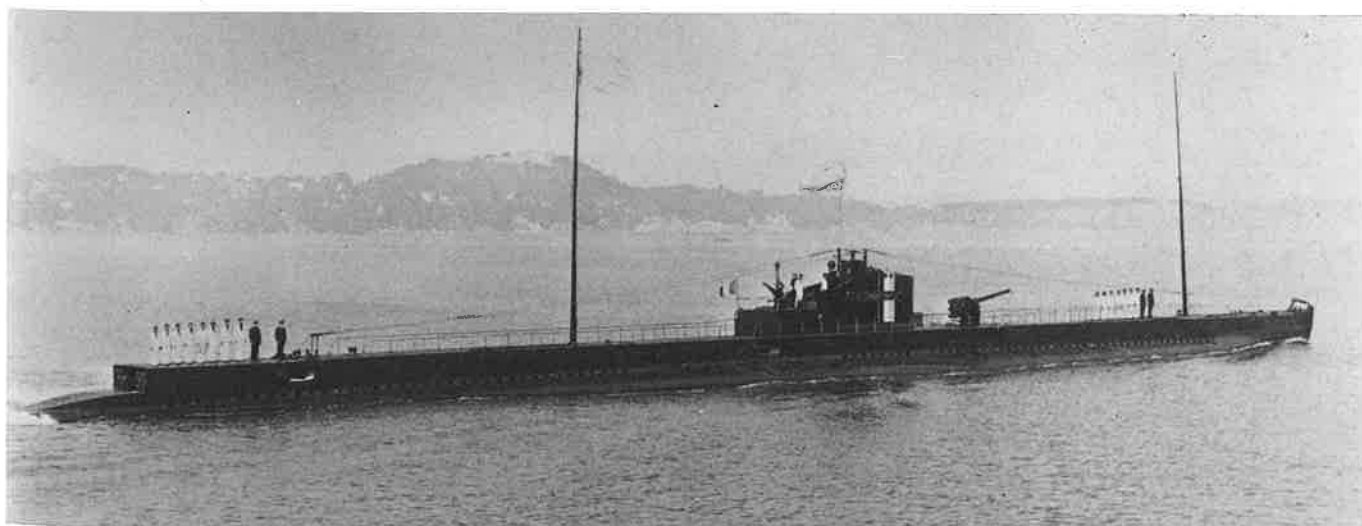
REDOUTABLE



LE CENTAURE

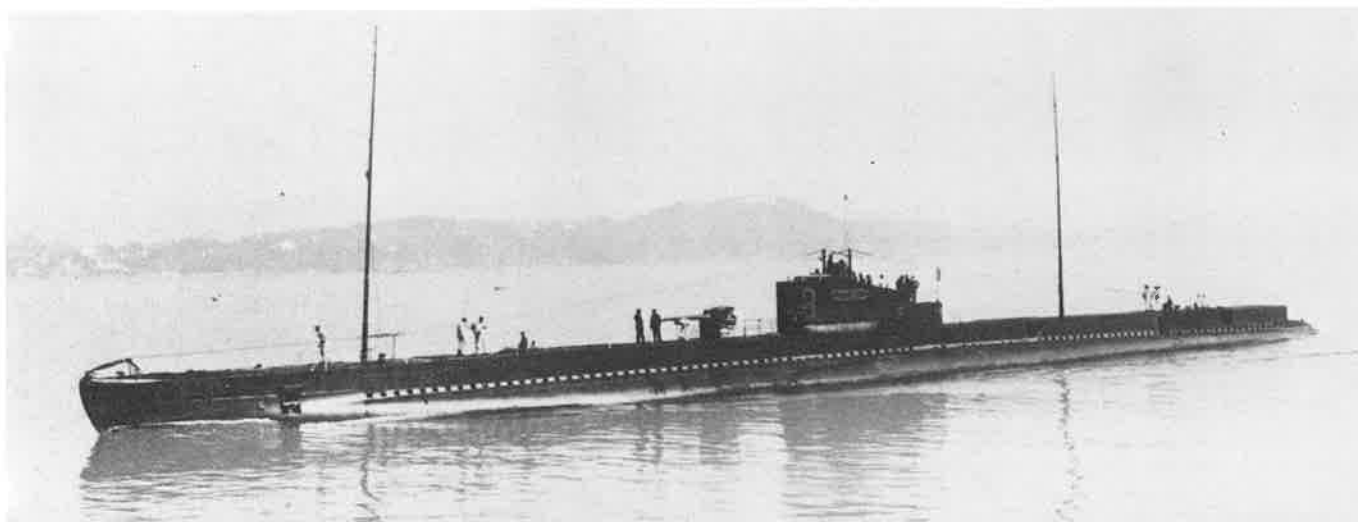


LE HEROS

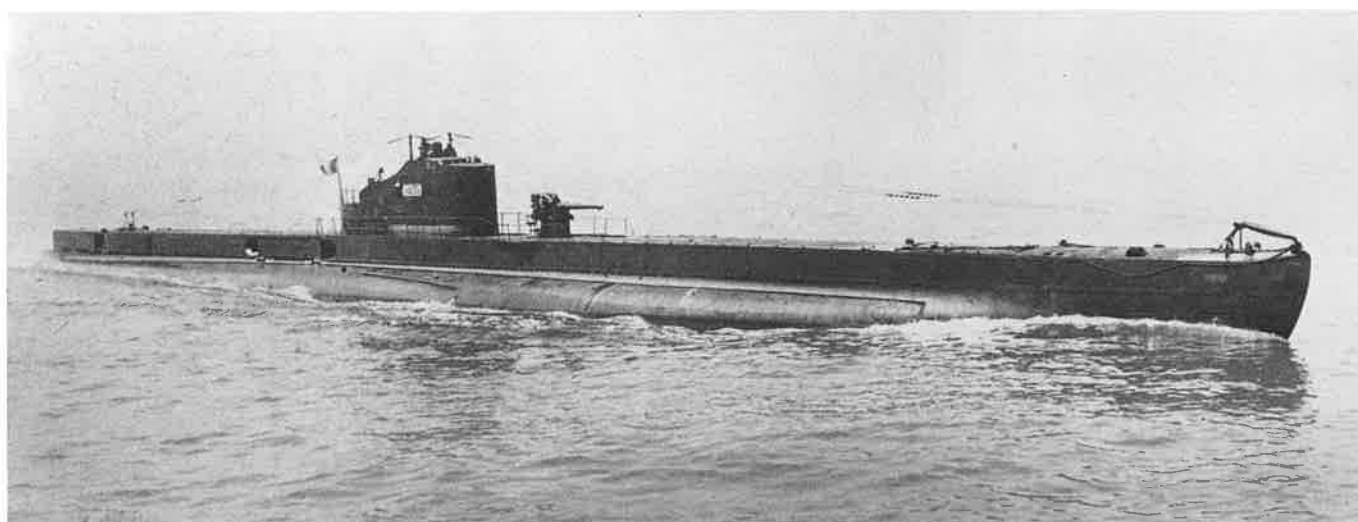


LE CONQUERANT

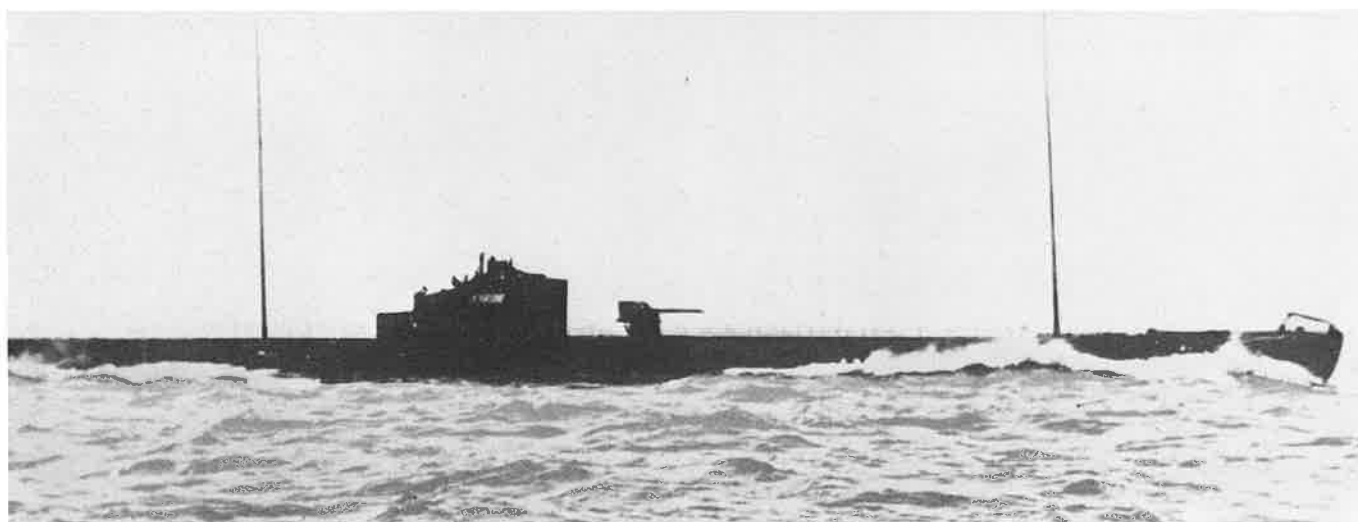
REDOUTABLE



LE TONNANT



AGOSTA



BEVEZIER



REDOUTABLE



SIDI FERRUCH

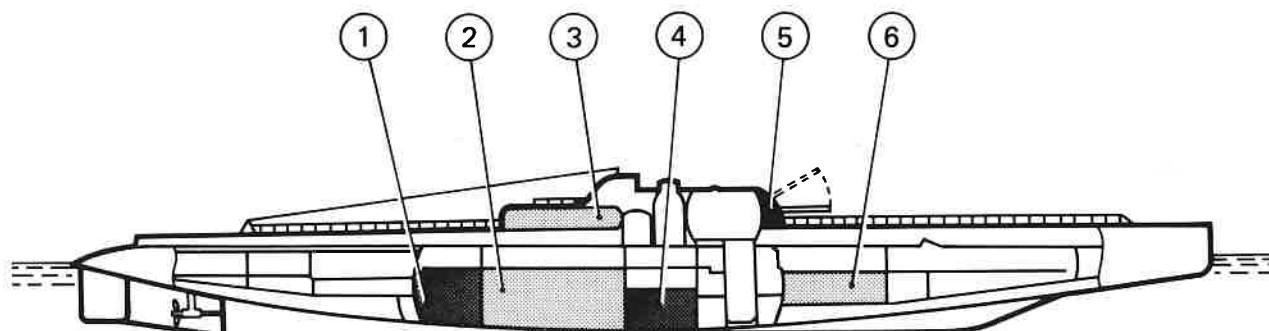


STAX



CASABIANCA

SURCOUF



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Hydroplane container
- 4 – Aft battery
- 5 – 203 canon
- 6 – Fore battery

CHARACTERISTICS

- Surface displacement: 3304 t
- Submerged displacement: 4318 t
- Length: 110 m
- Armament:
 - 2 groups of 3 pivoting TTs
 - 14 × 550 torpedoes
 - 8 × 400 torpedoes
 - 2 × 203 mm guns on double turret
 - 2 × 37 mm guns
 - 4 × 8 mm machine-guns
 - 1 observation seaplane

HISTORICAL DATA

The vessel houses a seaplane with folding wings which can be fitted, after disassembly, into a cylinder of 2 meters in diameter and 9 meters long. This cylinder is located at the rear of the diving lock by which entry is possible. A boom crane is installed above this cylinder to allow assembly and disassembly of the seaplane, and to facilitate insertion and removal from the cylinder. To float the seaplane, it is removed from the cylinder, assembled, turned backwards and brought onto the bridge deck: the cylinder is closed and the submarine dives until the seaplane floats. To reembark the seaplane, the submarine first in submerged situation empties completely a certain number of its ballast tanks (1 aft and all the fore ballast tanks except the first 4) to have a positive trim of 5° and a water line of about 45 cm for a small 4 m × 1 m platform placed at the rear of the cylinder. This platform can be inclined with a slope of roughly 20%. It becomes a slipway where the seaplane can land at as slow speed as possible. (The submarine sailing at slow speed in the most appropriate direction). A man on the cylinder throws a mooring line to the pilot and informs that rear ballasts can be blown. The submarine comes back to complete floating position; the slipway is lowered, the seaplane is disassembled and put back into the cylinder. These prescriptions are agreed by the Central Aeronautic Service. All acknowledge that they will require particularly favourable weather and sea conditions to give satisfactory results.

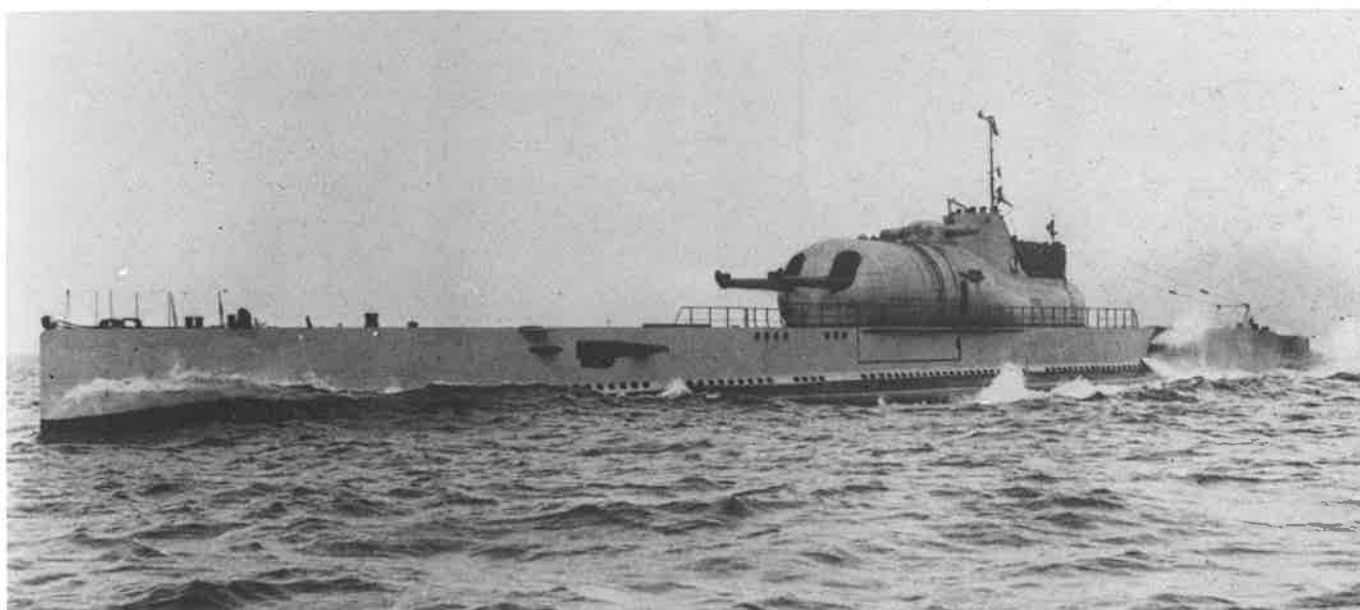
(Extract from the requirements.)

Ordered in 1926 - Designer: Roquebert

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
NN3	SURCOUF	Ch	1927	1929	1934	1942	sunk (collided)

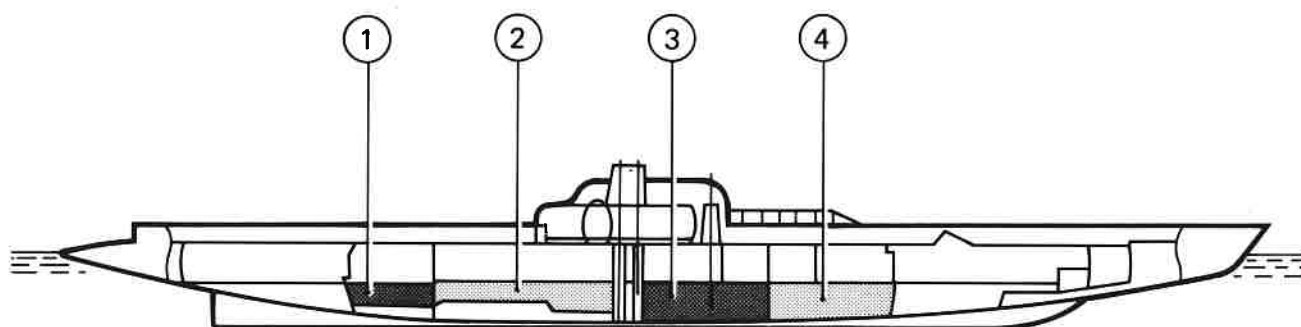


SURCOUF



SURCOUF

SAPHIR II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

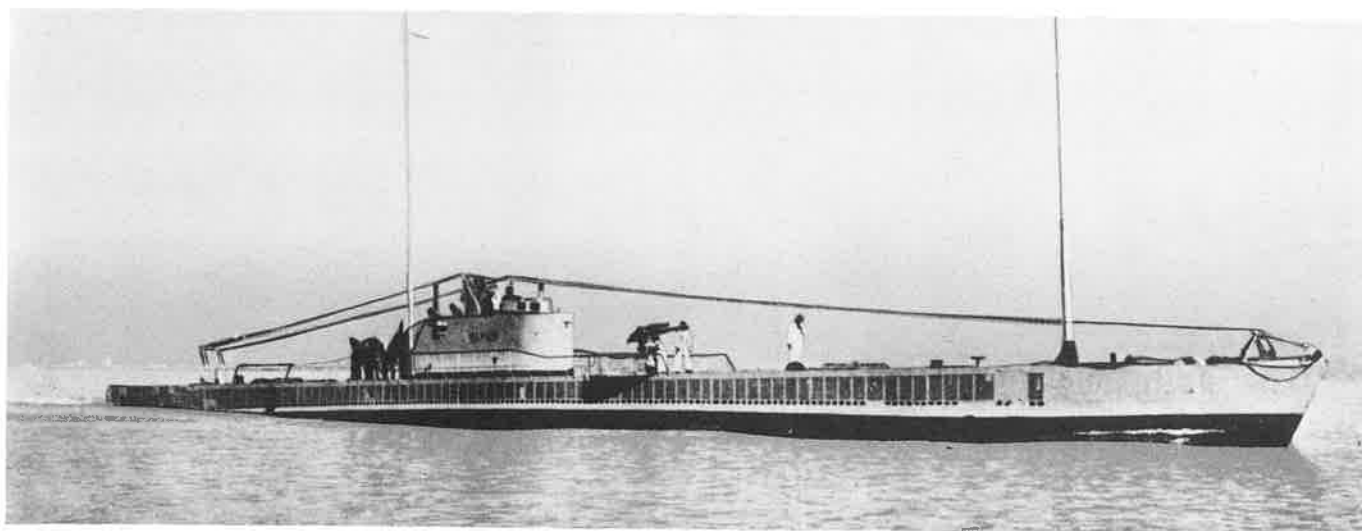
Surface displacement: 761 t
 Submerged displacement: 925 t
 Length: 65.90 m
 Armament: 3 × 550 TTs
 2 × 400 TTs
 1 × 13.2 mm machine-gun
 32 mines

HISTORICAL DATA

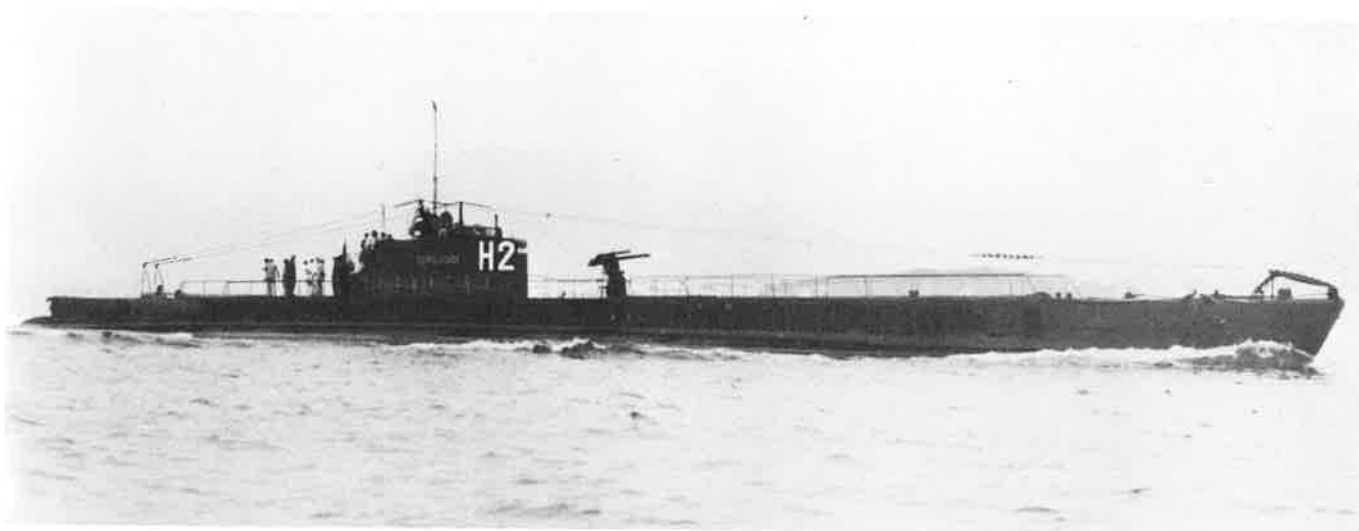
Ordered in 1929 - Designer: Paoli

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 145	SAPHIR II	To	1926	1928	1930	1942	captured at Bizerte
Q 146	TURQUOISE II	To	1926	1929	1930	1942	captured at Bizerte
Q 152	NAUTILUS	To	1926	1930	1931	1942	captured at Bizerte
Q 158	RUBIS II	To	1928	1931	1933	1949	laid up
Q 173	DIAMANT	To	1929	1933	1934	1942	scuttled
Q 184	PERLE II	To	1931	1935	1937	1944	bombed

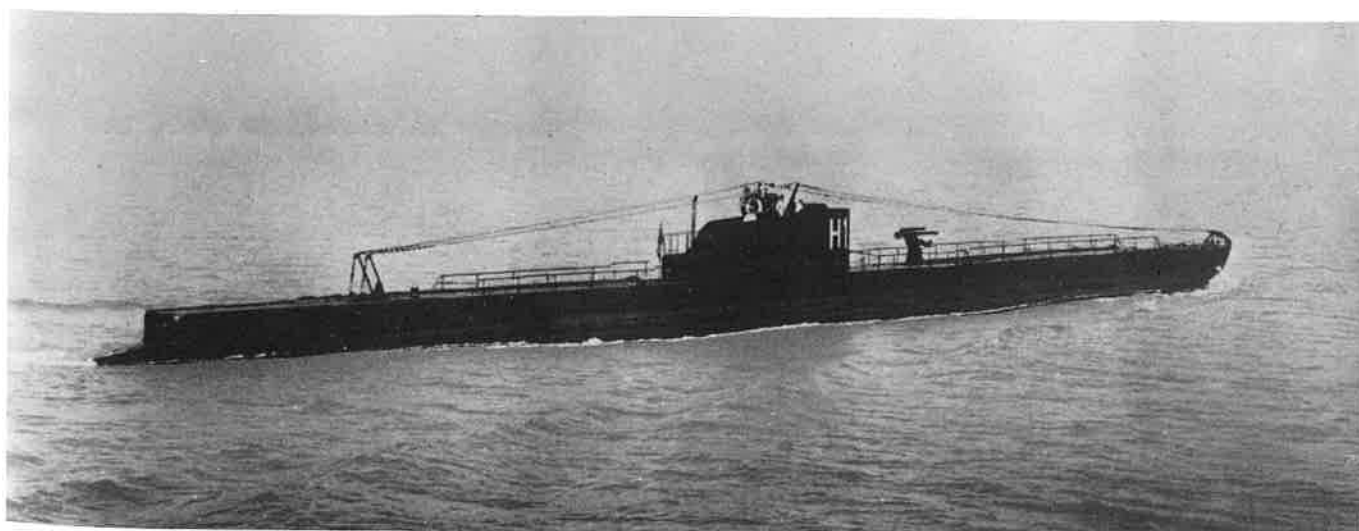
SAPHIR II



SAPHIR II



TURQUOISE II

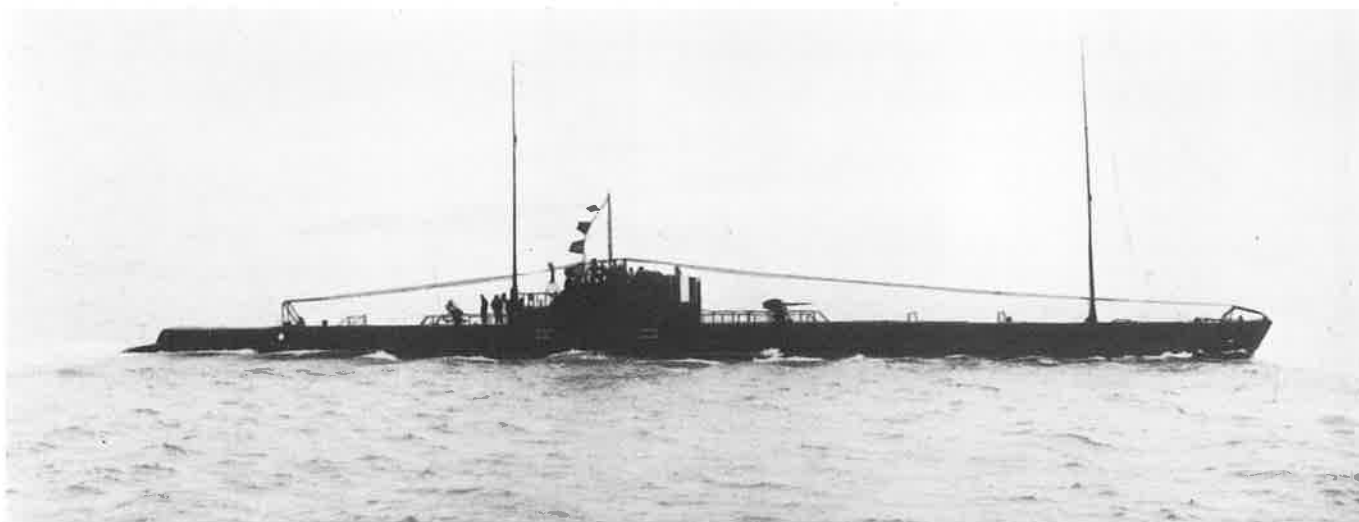


NAUTILUS

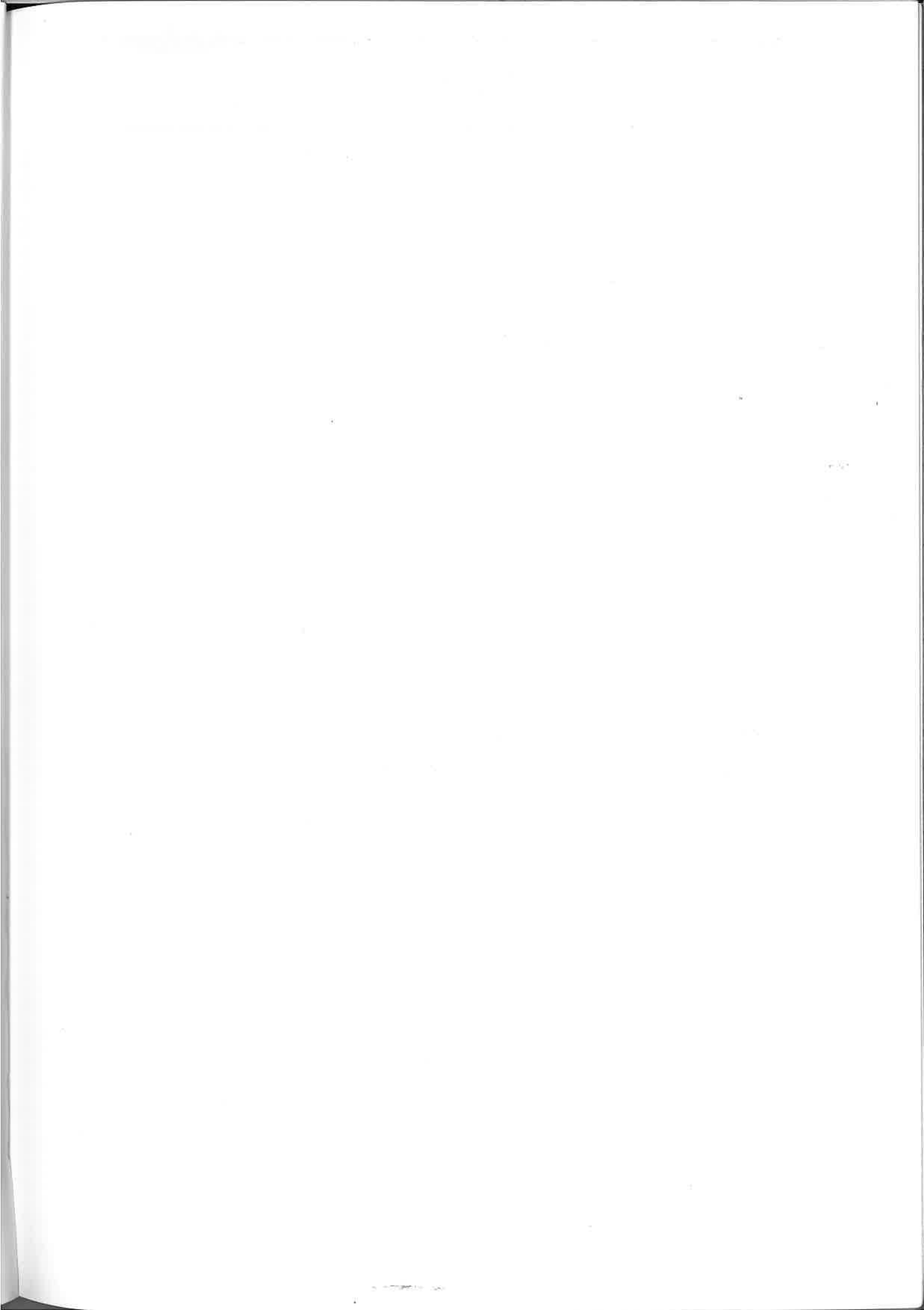
SAPHIR II



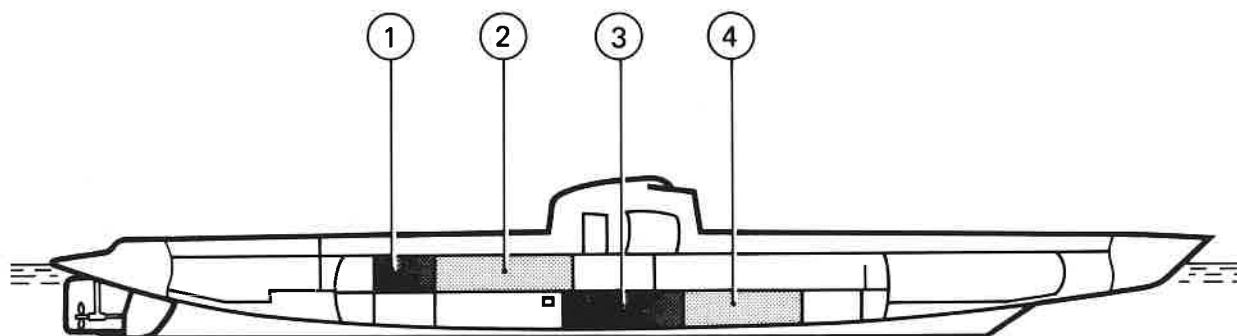
RUBIS II



PERLE II



DIANE II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 651 t
 Submerged displacement: 800 t
 Length: 64.40 m
 Armament:
 7 × 500 TTs
 1 × 75 mm gun
 1 × 13.2 mm machine-gun
 2 × 8 mm machine-guns

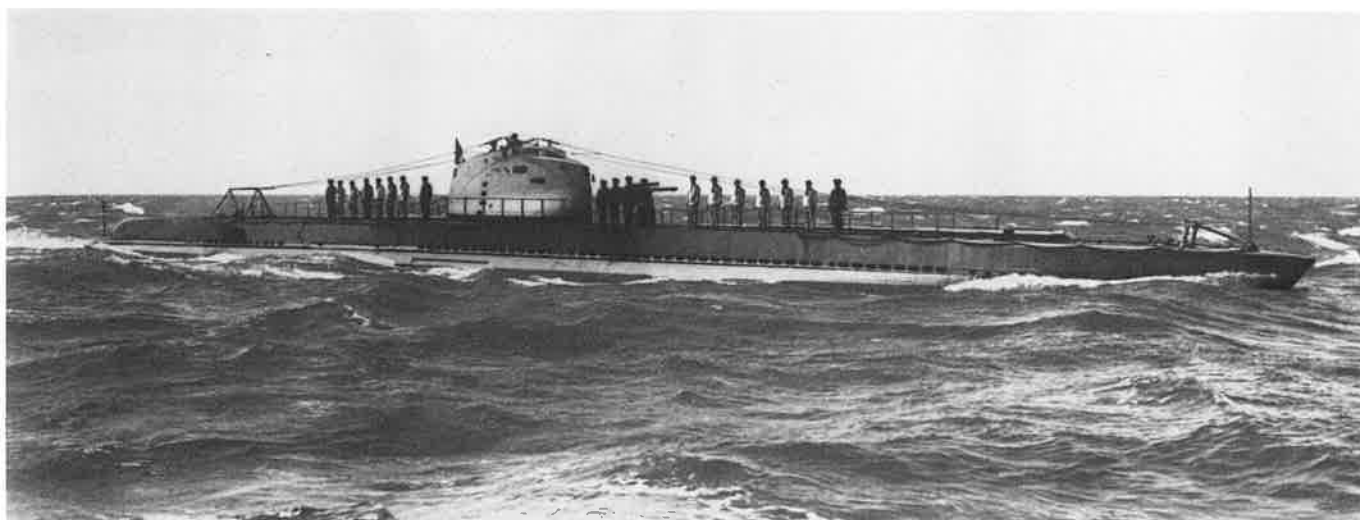
HISTORICAL DATA

Ordered from 1926 to 1928 - Designer: Fenaux

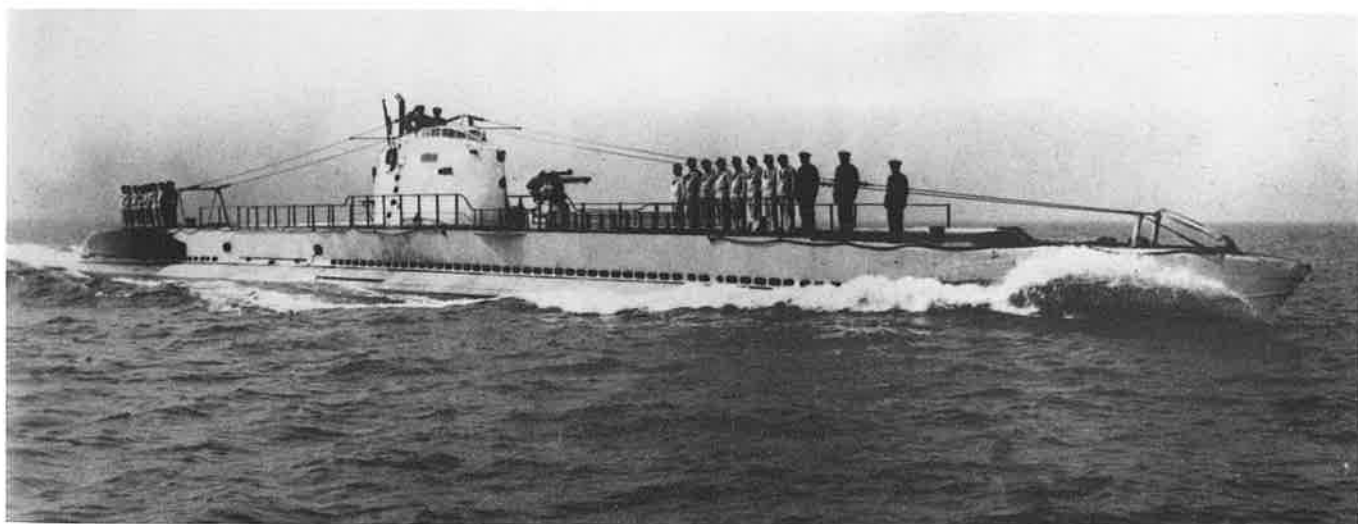
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
NN4	DIANE II	N	1927	1930	1932	1942	sunk
NN5	MEDUSE II	N	1927	1930	1932	1942	sunk
Q 159	AMPHITRITE II	N	1928	1930	1933	1942	sunk
Q 160	ANTIOPE II	N	1928	1930	1932	1946	laid up
Q 161	AMAZONE II	N	1928	1931	1933	1946	laid up
Q 163	ORPHEE	N	1928	1931	1933	1946	laid up
Q 164	OREADE	N	1928	1932	1934	1942	sunk
Q 174	LA PSYCHE	N	1930	1932	1933	1942	sunk
Q 175	LA SIBYLLE	N	1930	1932	1934	1942	sunk



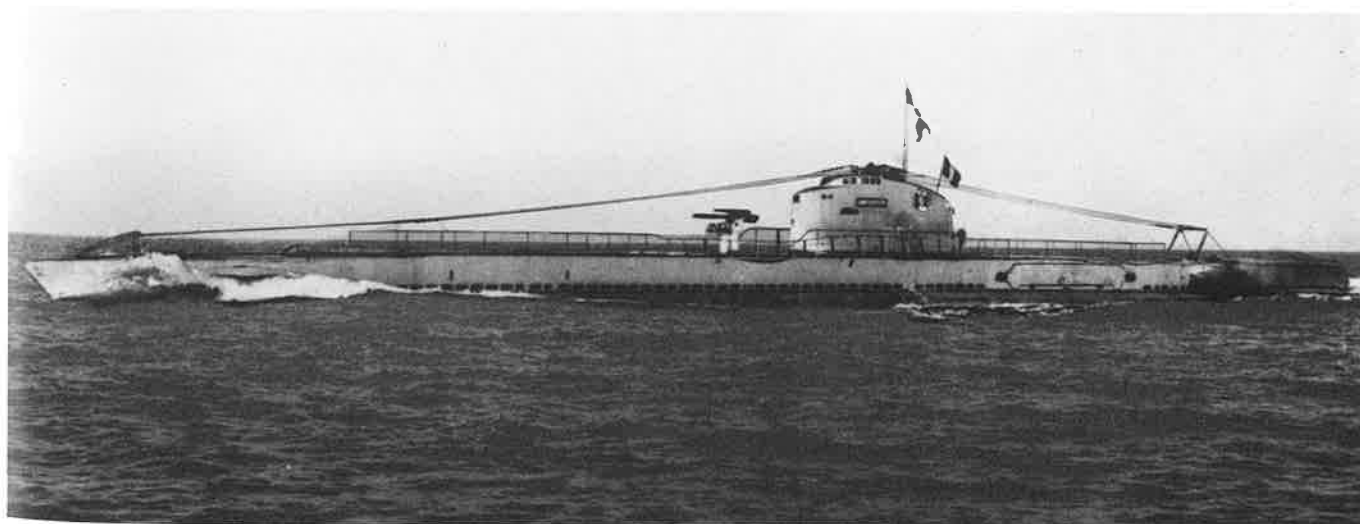
DIANE II



DIANE II



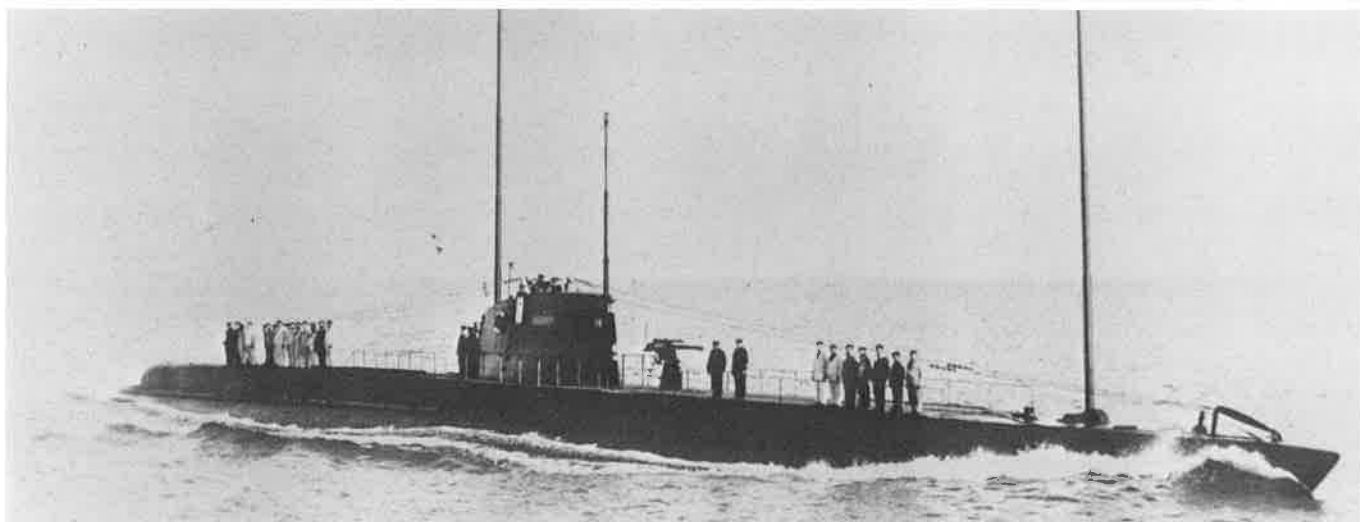
MEDUSE II



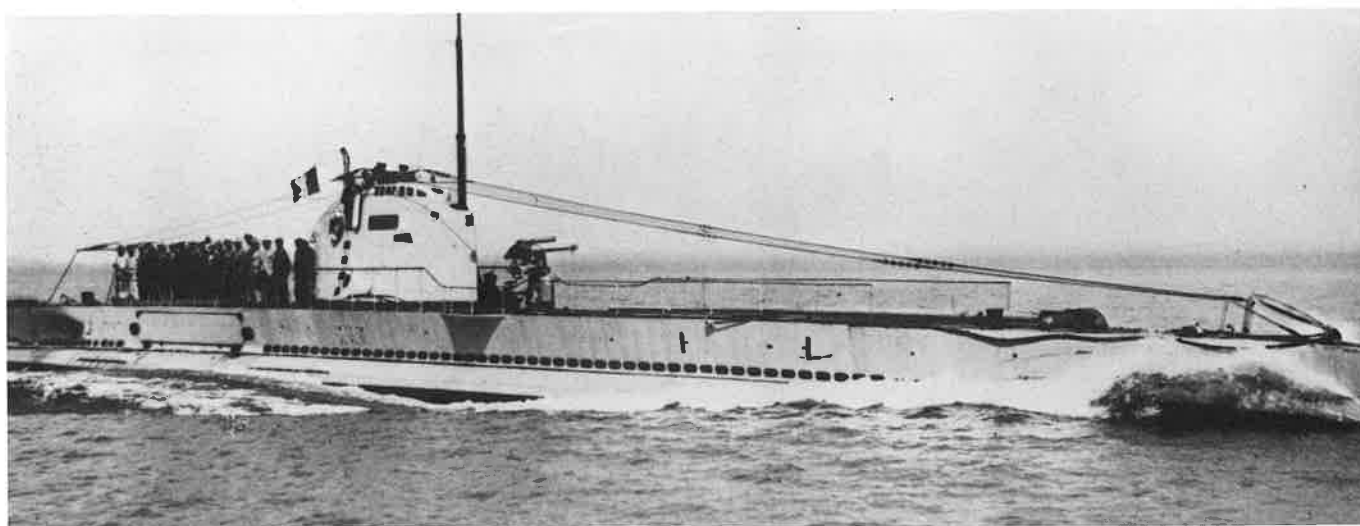
AMPHITRITE II



DIANE II



ANTIOPE II



AMAZONE II



ORPHEE

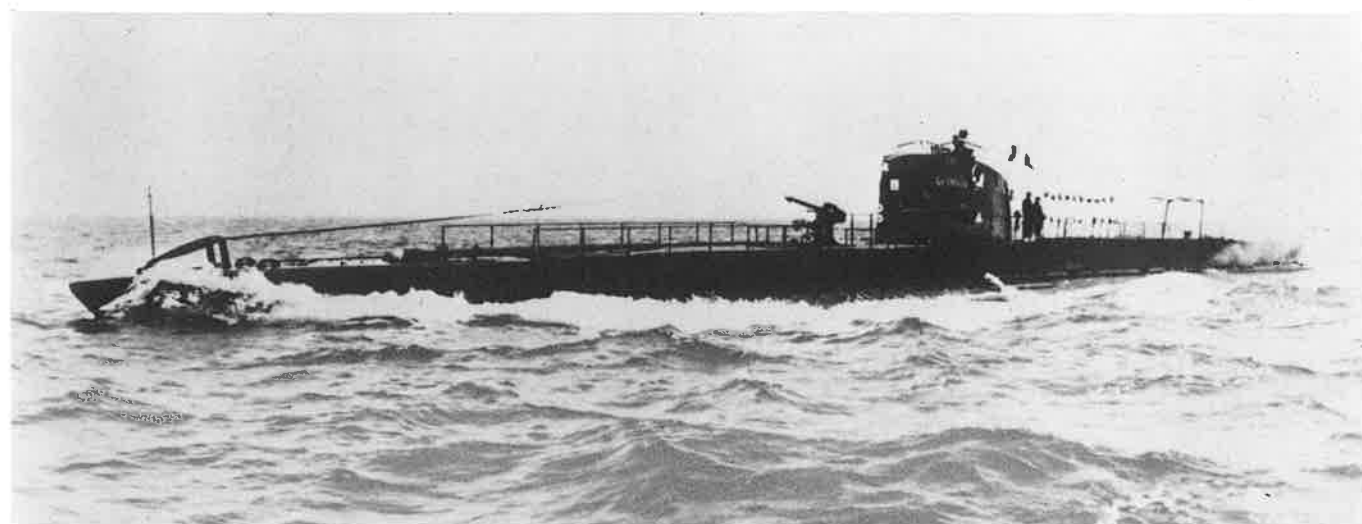
DIANE II



OREADE



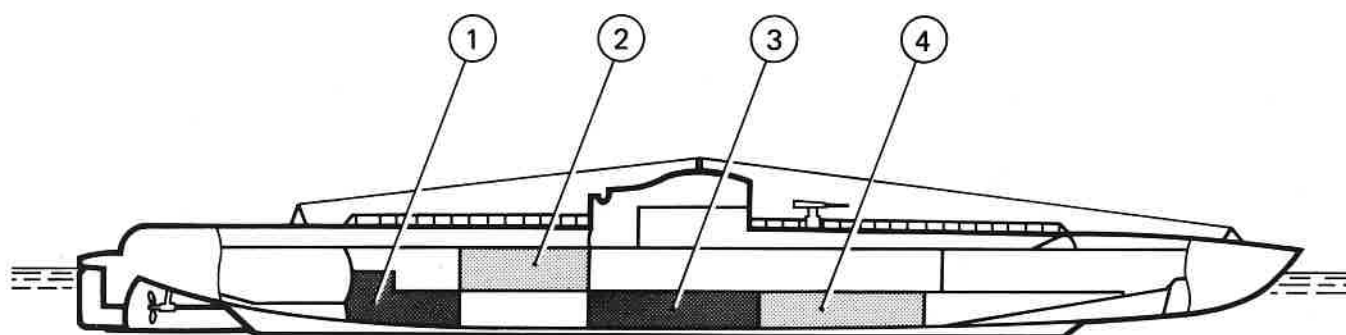
LA PSYCHE



LA SIBYLLE



ARGONAUTE II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 630 t
 Submerged displacement: 798 t
 Length: 63.60 m
 Armament:
 8 TTs
 6 × 550 torpedoes
 2 × 400 torpedoes
 1 × 75 mm gun
 1 × 13.2 mm machine-gun
 2 × 8 mm machine-guns

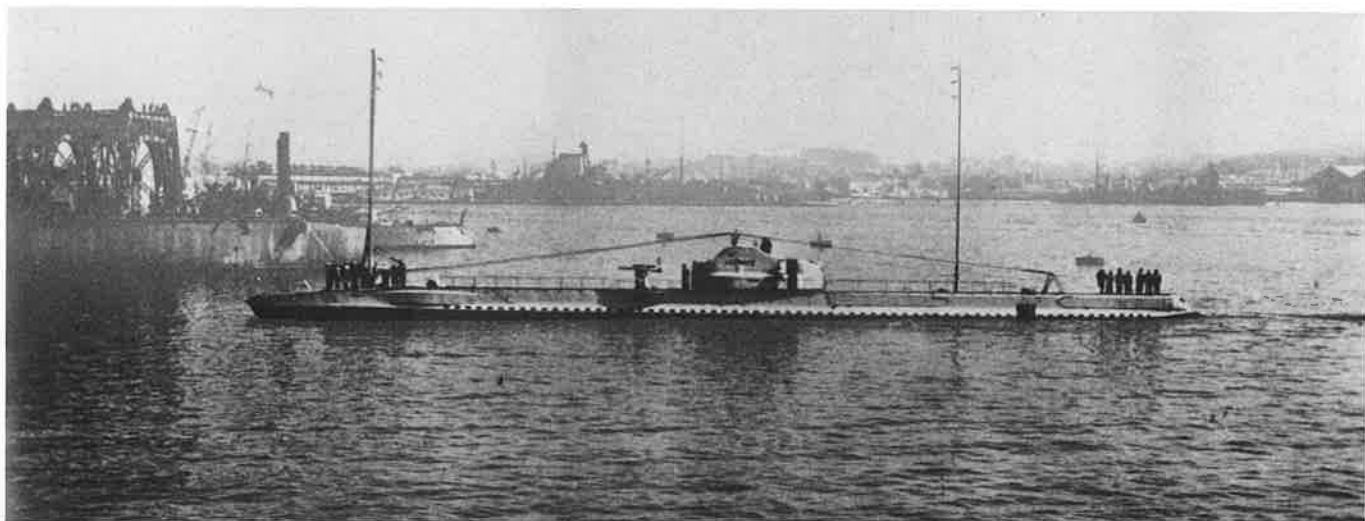
HISTORICAL DATA

Ordered from 1926 to 1928 - Designer: Laubeuf

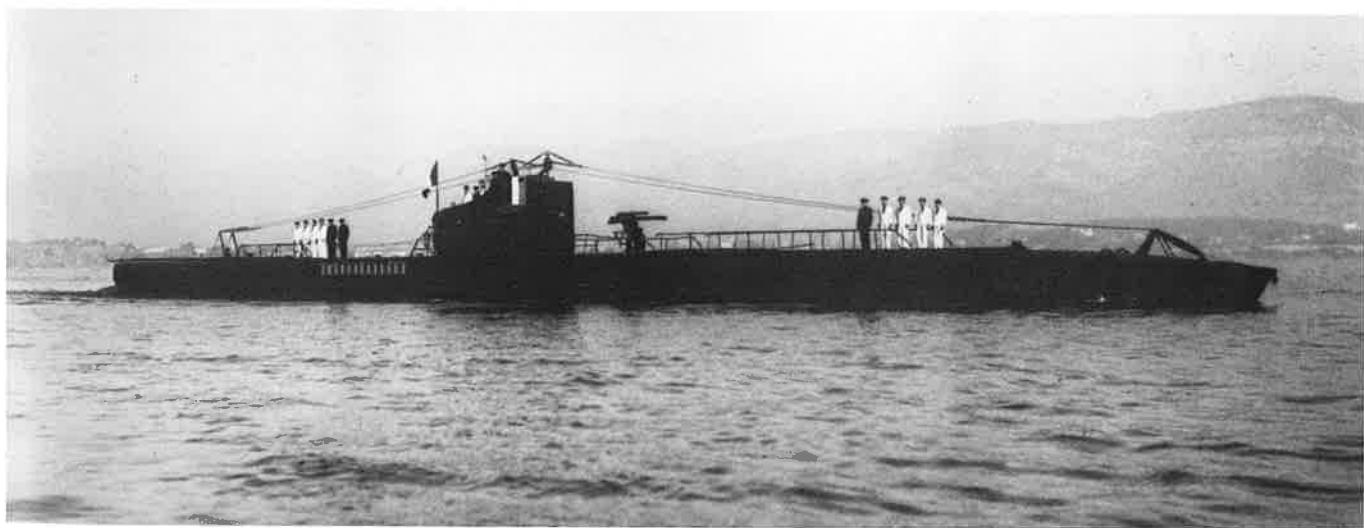
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
NN6	ARGONAUTE II	S	1927	1929	1932	1942	sunk
NN7	ARETHUSE II	S	1928	1929	1933	1946	laid up
Q 162	ATALANTE II	S	1928	1930	1934	1946	laid up
Q 176	LA VESTALE	S	1930	1932	1934	1946	laid up
Q 177	LA SULTANE	S	1930	1932	1935	1946	laid up



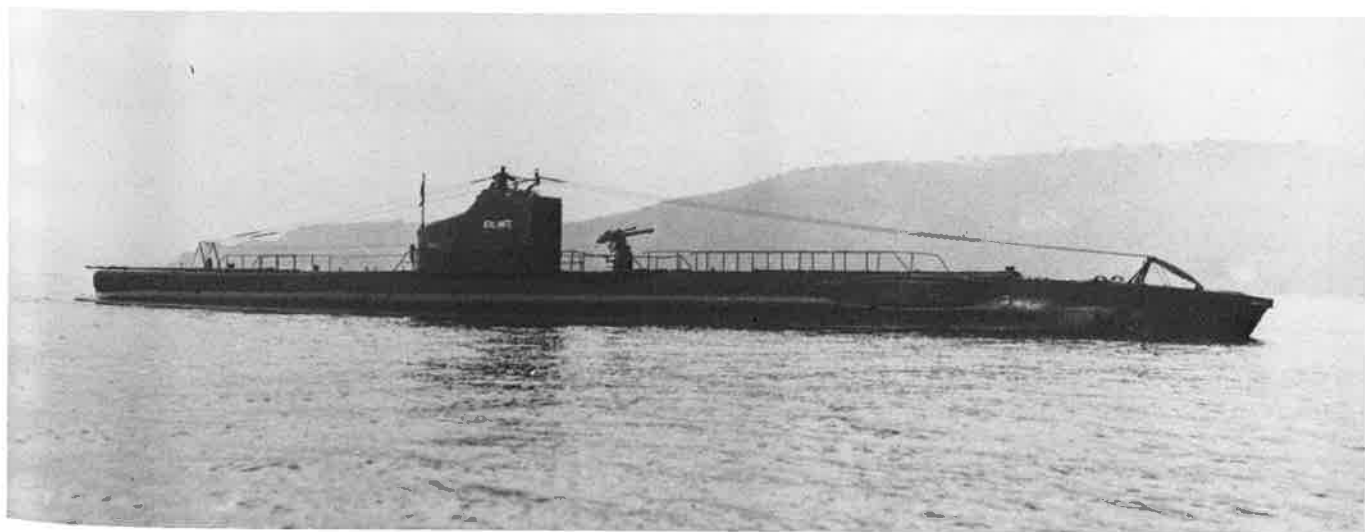
ARGONAUTE II



ARGONAUTE II

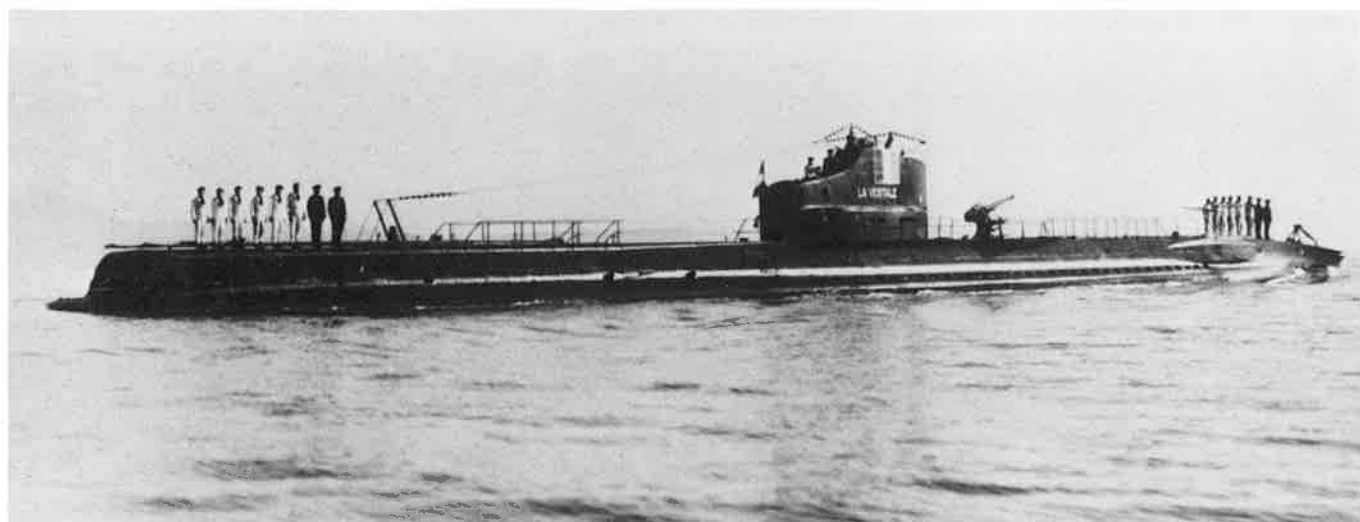


ARETHUSE II

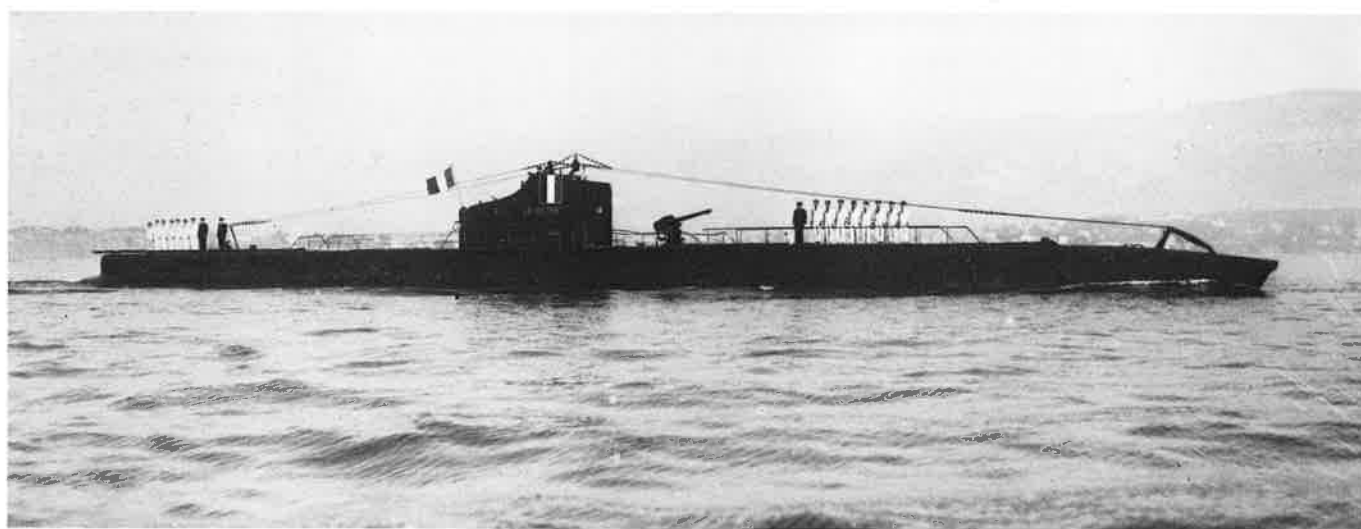


ATALANTE II

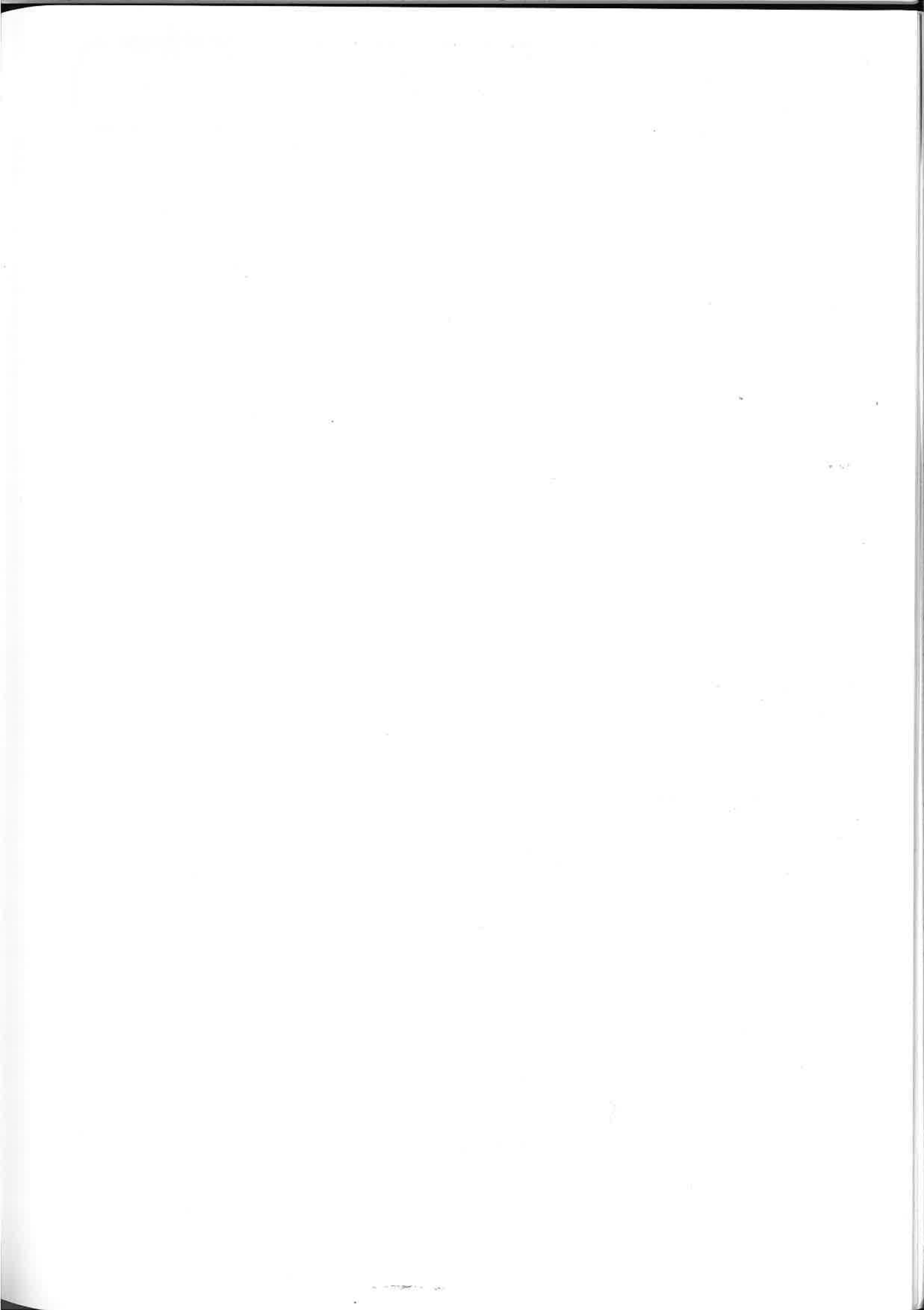
ARGONAUTE II



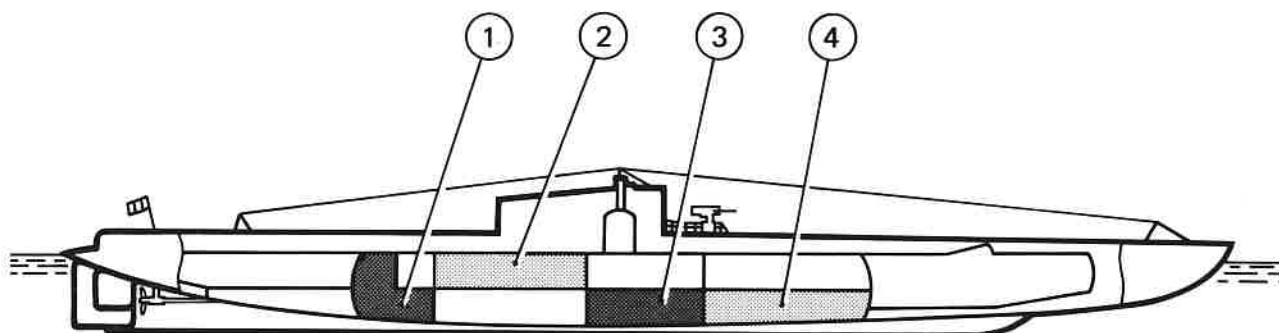
LA VESTALE



LA SULTANE



ORION



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 656 t
 Submerged displacement: 822 t
 Length: 66.85 m
 Armament: 4 TTs
 7 × 550 torpedoes
 2 × 400 torpedoes
 1 × 75 mm gun
 1 × 13.2 mm machine-gun
 2 × 8 mm machine-guns

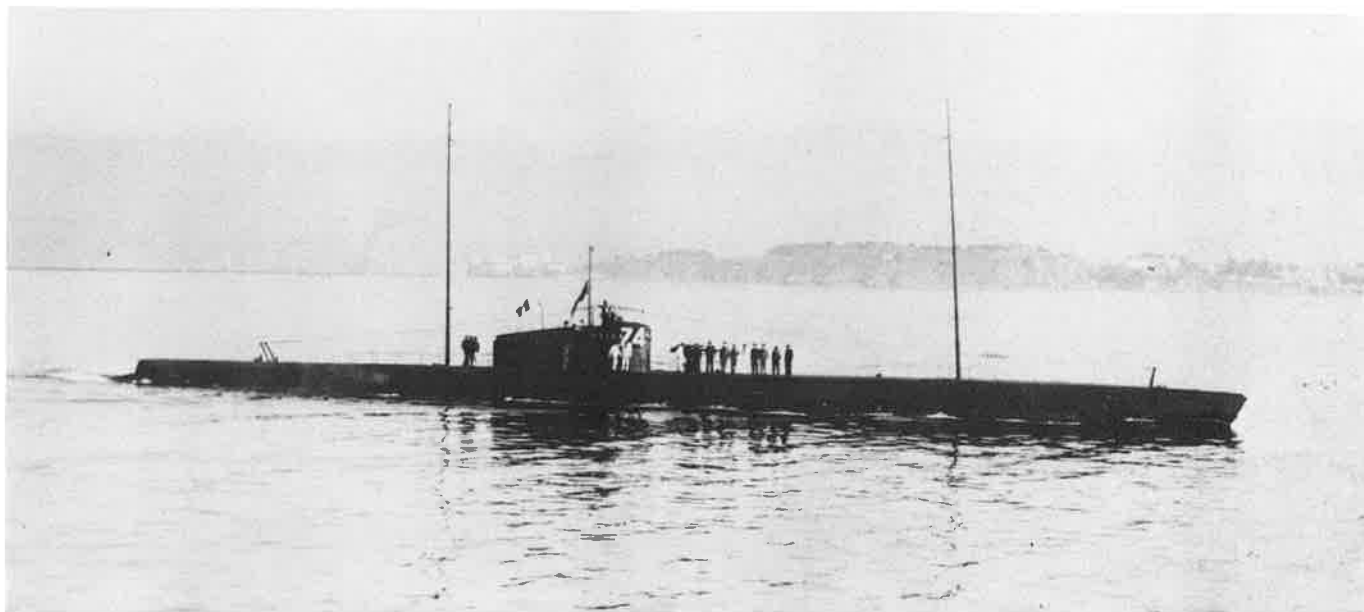
HISTORICAL DATA

Ordered the 27-12-1927 - Designer: Simonot

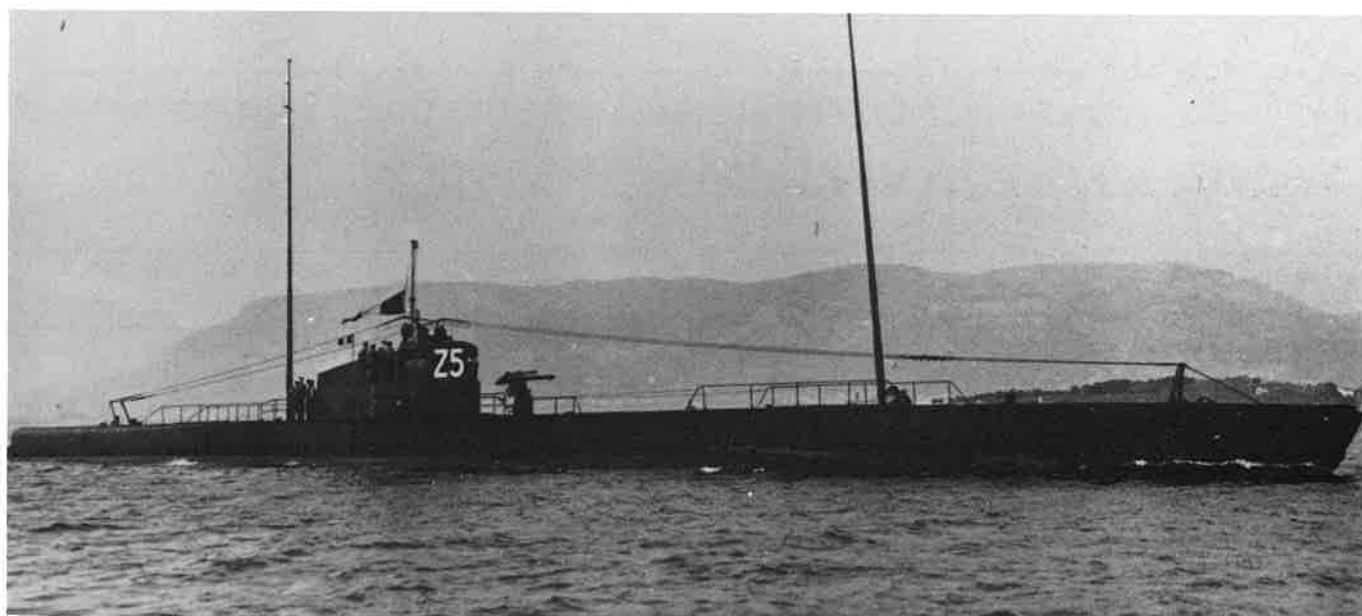
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 165	ORION	ACL	1928	1931	1932	1940	sunk
Q 166	ONDINE II	ACL	1928	1931	1932	1940	sunk



ORION

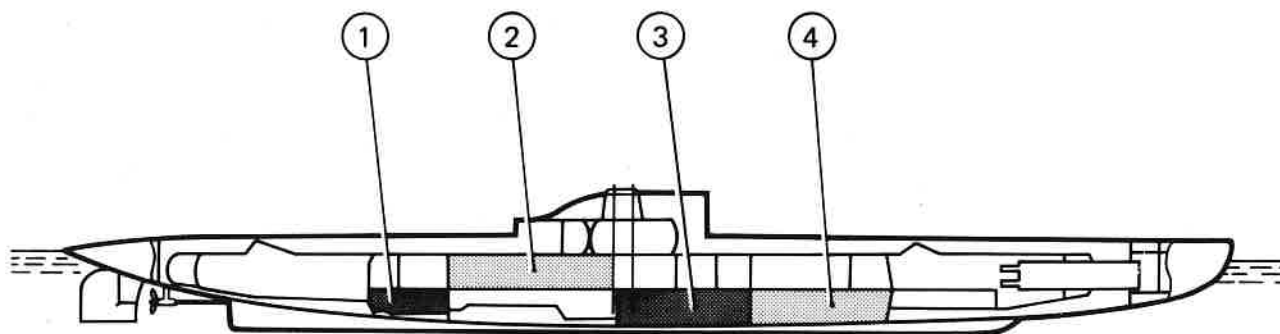


ORION



ONDINE II

MINERVE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 662 t
 Submerged displacement: 856 t
 Length: 68.10 m
 Armament:
 6 × 550 TTs
 3 × 400 TTs
 1 × 13.2 mm machine-gun
 2 × 8 mm machine-guns
 except for Q 189 and 190

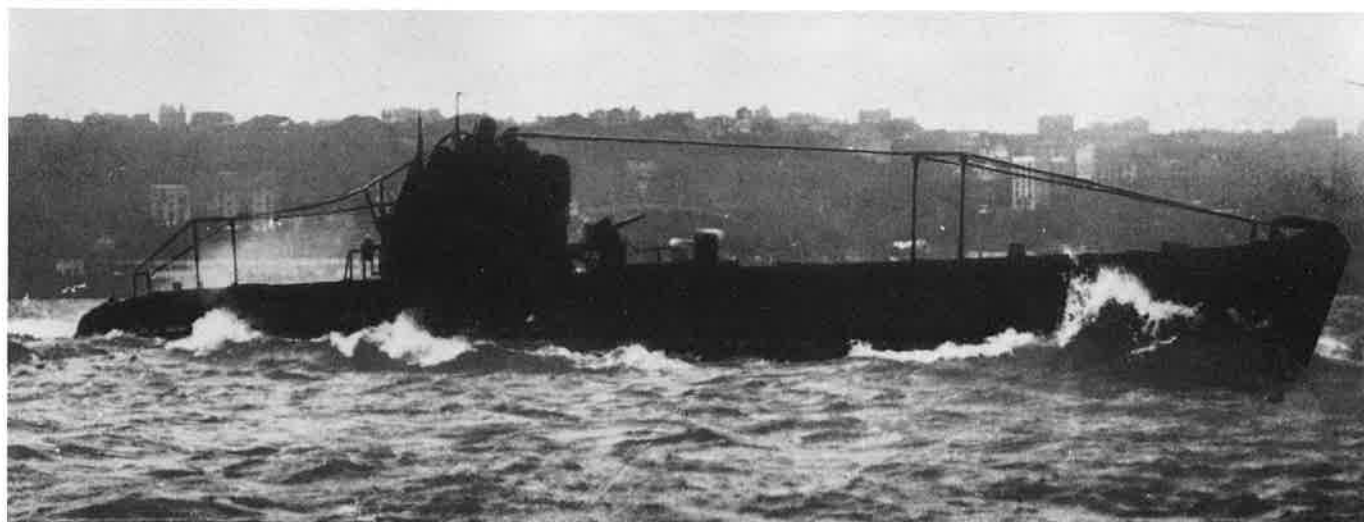
HISTORICAL DATA

Ordered from 1930 to 1935 - Designer: Roquebert

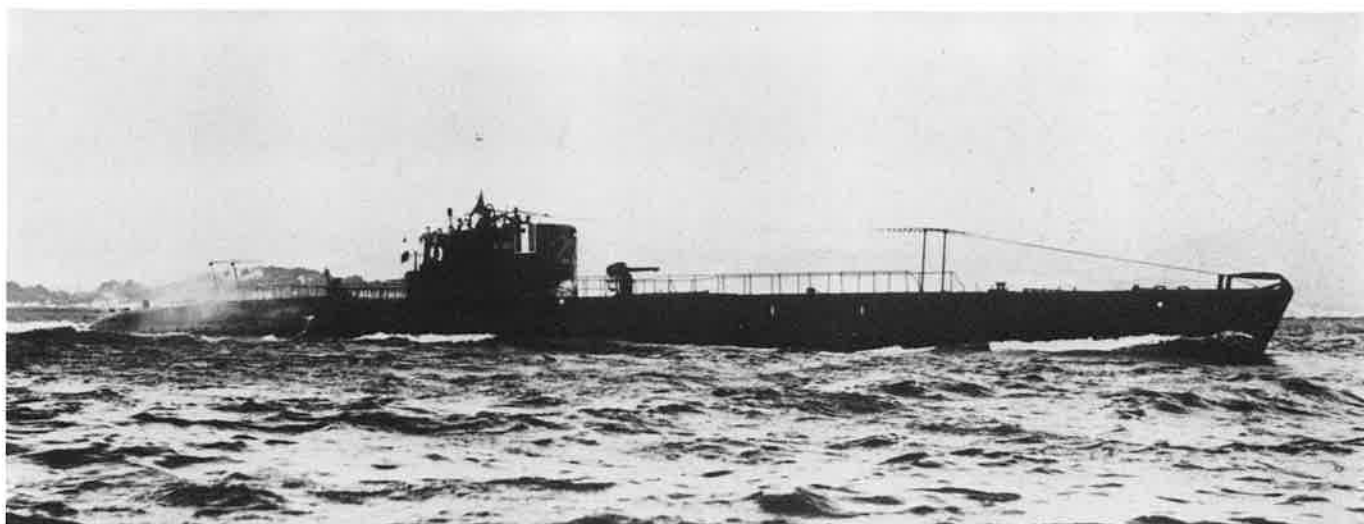
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 185	MINERVE	Ch	1931	1934	1936	1943	sunk
Q 186	JUNON	N	1932	1935	1937	1954	laid up
Q 187	VENUS	W	1932	1935	1936	1942	scuttled
Q 188	IRIS	D	1932	1934	1936	1950	laid up
Q 189	PALLAS	N	1932	1938	1939	1942	sunk
Q 190	CERES	W	1932	1938	1939	1942	sunk



MINERVE



JUNON

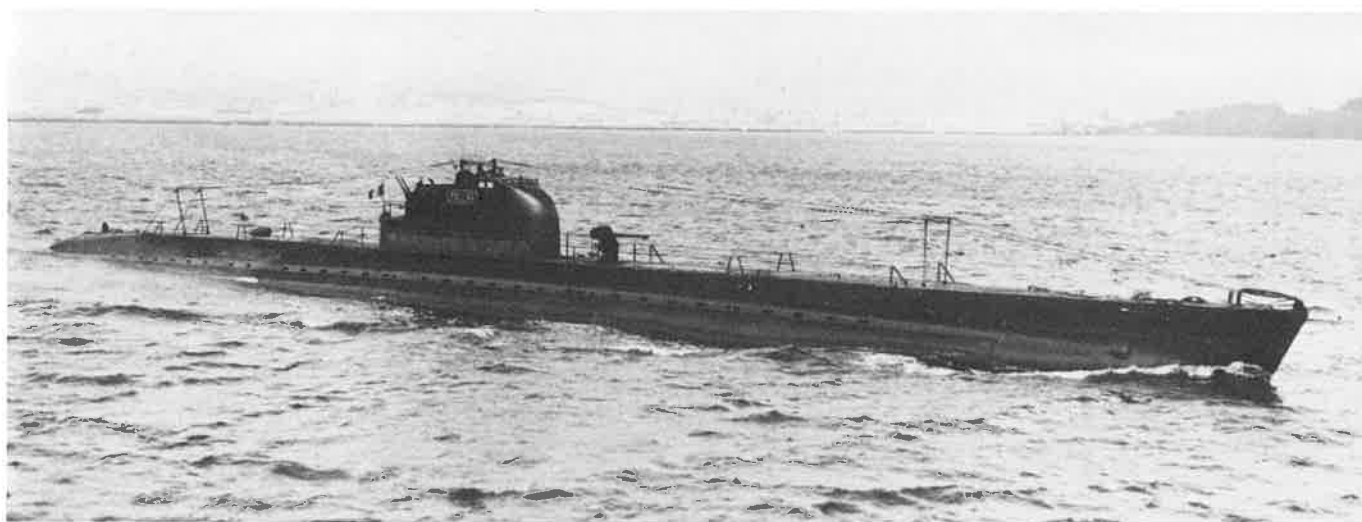


VENUS



IRIS

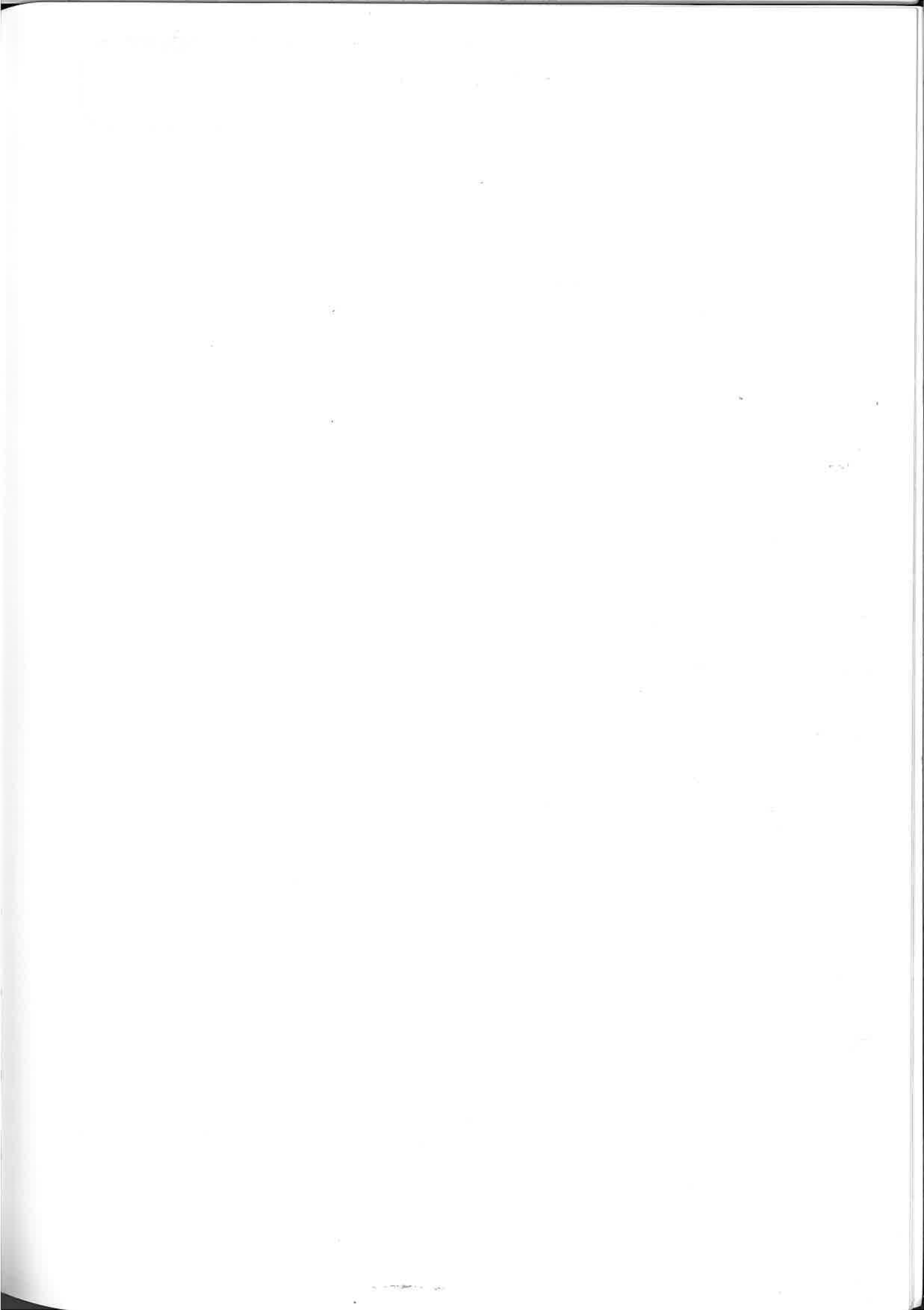
MINERVE



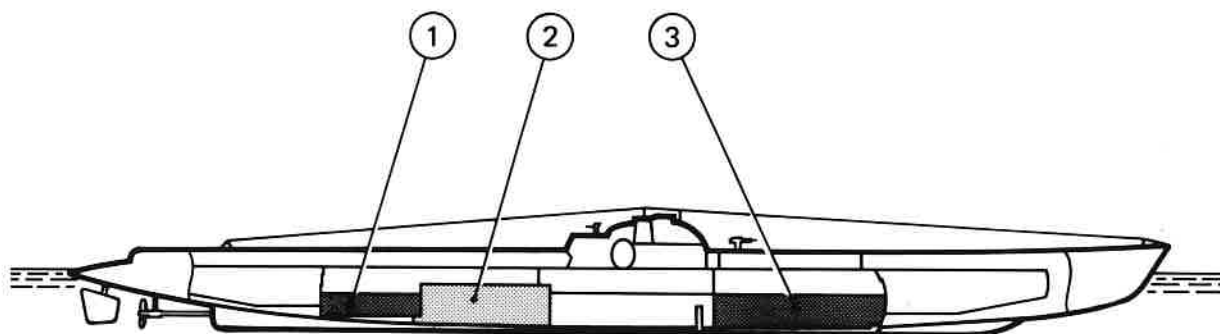
PALLAS



CERES



ROLAND MORILLOT



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Batteries

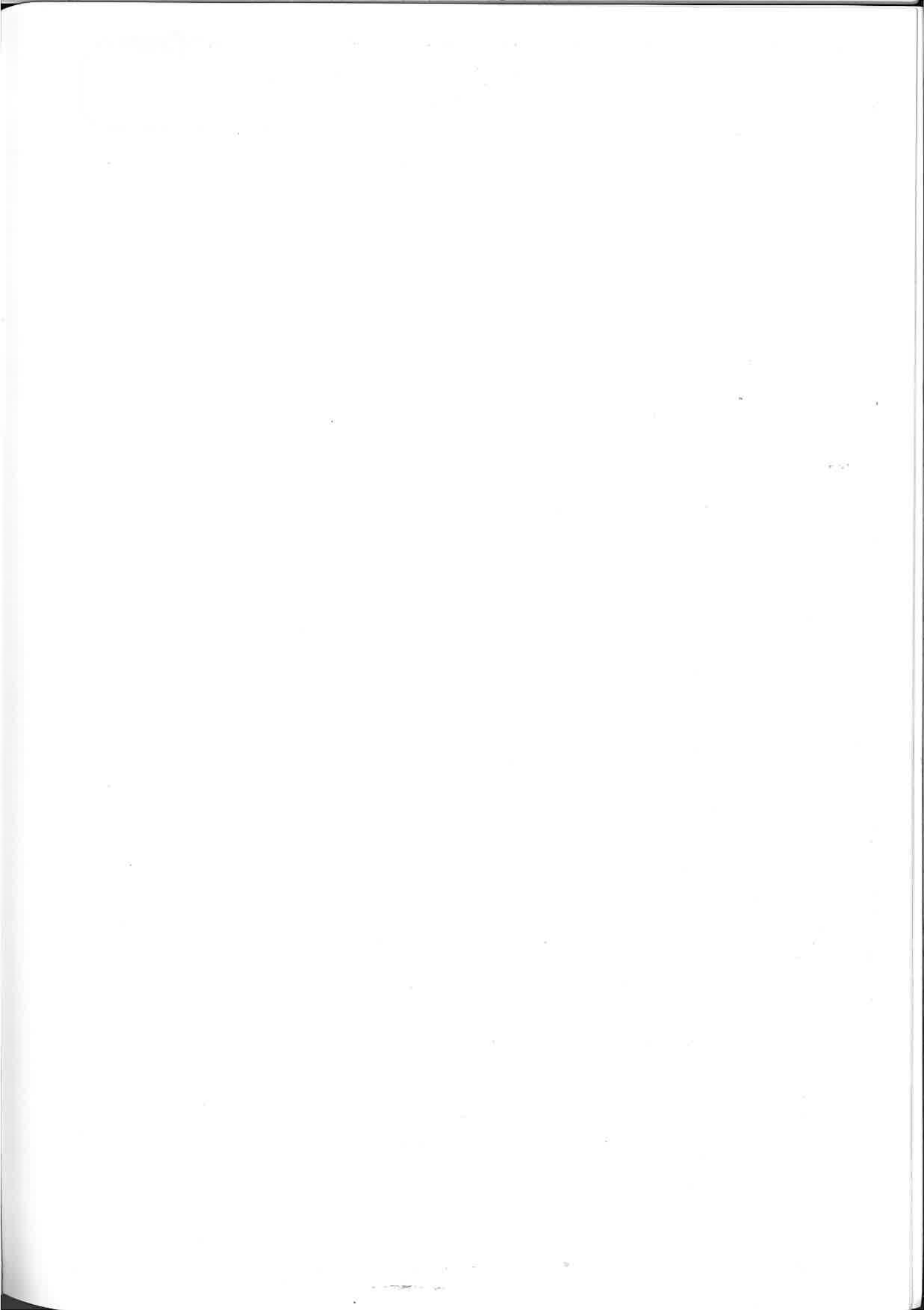
CHARACTERISTICS

Surface displacement: 1810 t
 Submerged displacement: 2418 t
 Length: 102.50 m

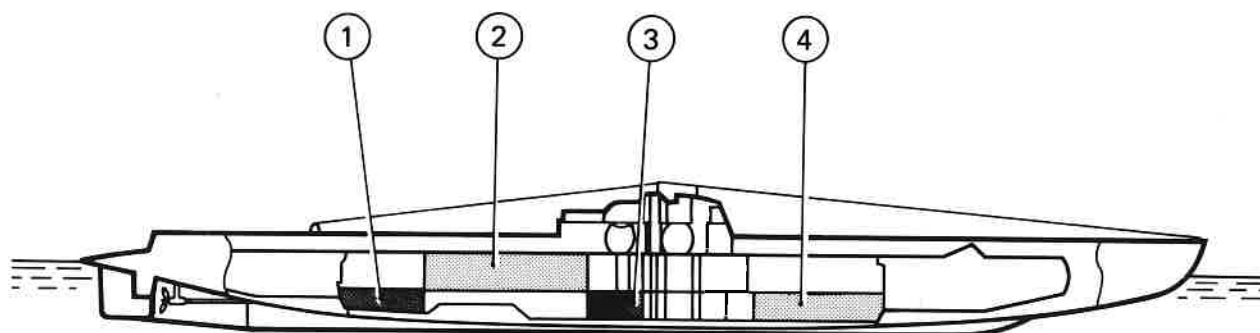
HISTORICAL DATA

Ordered from 1934 to 1938 - Designer: Paoli

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 191	R. MORILLOT	Ch	1937	Destroyed in shipyard (one day before launching.)			
Q 198	LA PRAYA	Ch	1938				
Q 199	LA MARTINIQUE	Ch	1938	Not built			
Q 204	LA GUADELOUPE	D	1940				
Q 205	LA REUNION	Ch	1940				
Q 228	} Ordered the 01-04-40, then cancelled						
Q 229							
Q 230							



L'AURORE



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 893 t
 Submerged displacement: 1170 t
 Length: 73.50 m
 Armament: 9 × 550 TTs
 1 × 100 mm gun
 1 × 13.2 mm machine-gun

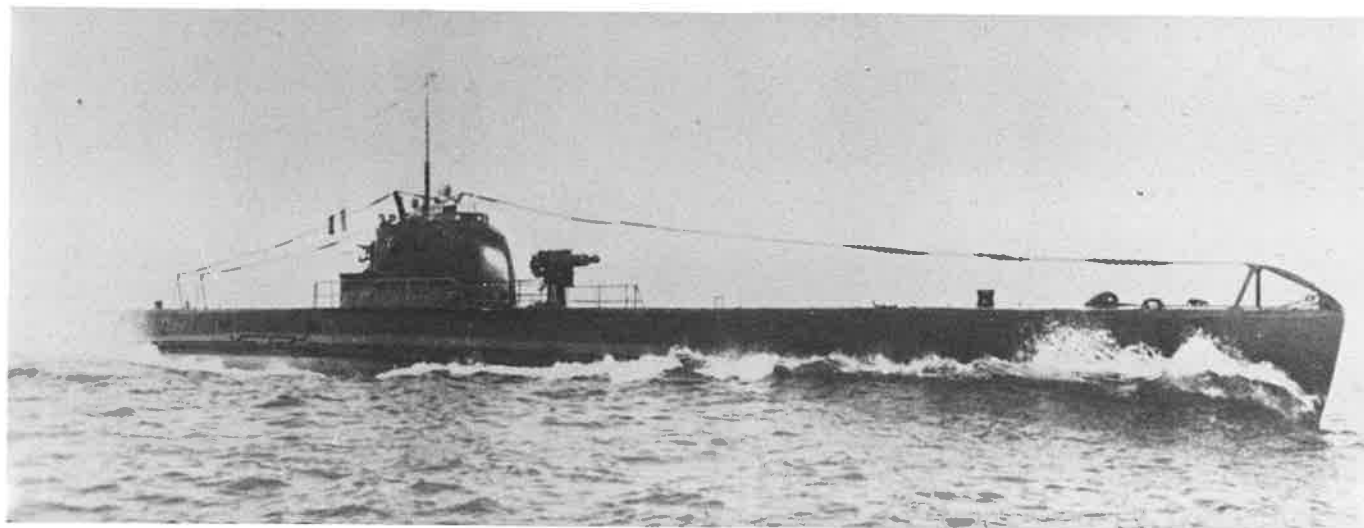
HISTORICAL DATA

Ordered from 1934 to 1938 - Designer: Paoli

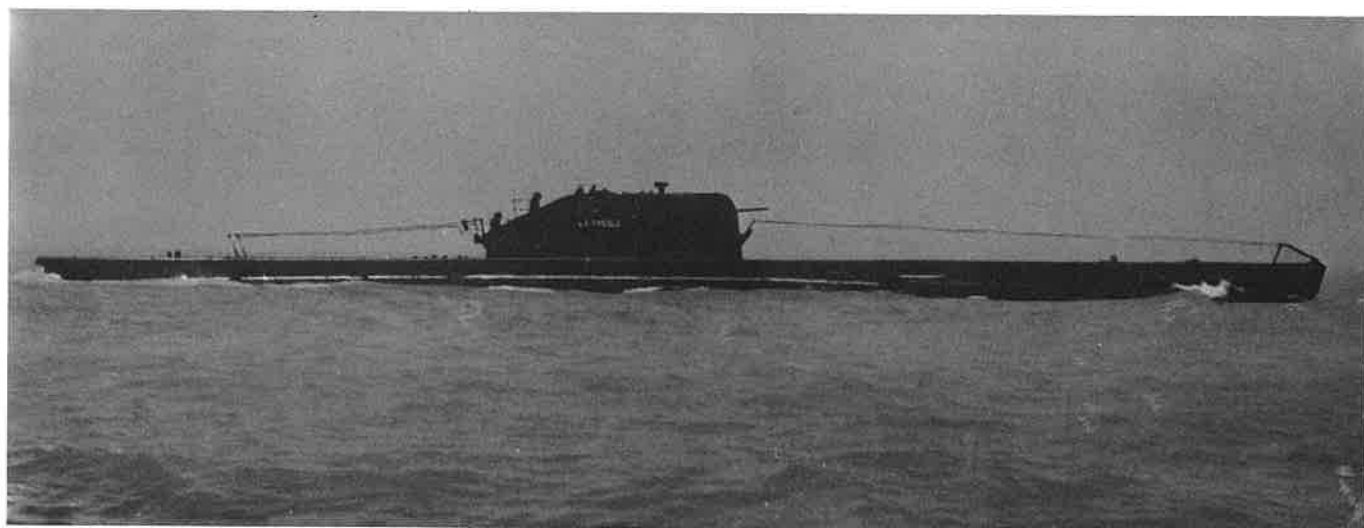
HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 192	L'AURORE	To	1935	1939	Scuttled on slip at Toulon		
Q 193	LA CREOLE	N	1937	1940	Towed to England after completion		
Q 194	LA BAYADERE	N	1937	1946	—	1961	laid up
				—	—	1940	scuttled on slip
Q 195	LA FAVORITE	W	1937	1942	Became German UF-2, sunk in 1944		
Q 196	L'AFRICAIN	W	1937	1946	1949	1963	laid up
Q 200	L'ASTREE II	D	1938	1946	1949	1965	laid up
Q 201	L'ANDROMEDE	D	1938	1949	1953	1965	laid up
Q 202	L'ANTIGONE II	S	1938		Building stopped in 1940		
Q203	L'ANDROMAQUE	W	1938		Building stopped in 1940		
Q 204	LA GUADELOUPE	D	1940				
Q 205	LA REUNION	Ch	1940				
Q 206	L'ARTEMIS II	N	1939	1942	1954	1967	laid up
Q 207	L'ARMIDE	W	1939		Never launched, building stopped		
Q 211	L'HERMIONE II	N	1940		Building stopped the 18-06 1940		
Q 212	LA GORGONE II	N	1940				
Q 213	LA CLORINDE II	D			Building stopped before laid down.		
Q 214	LA CORNELIE II	—					



L'AURORE



L'AURORE



LA CREOLE



L'AURORE



L'AFRICAIN



L'ASTREE II



L'AURORE

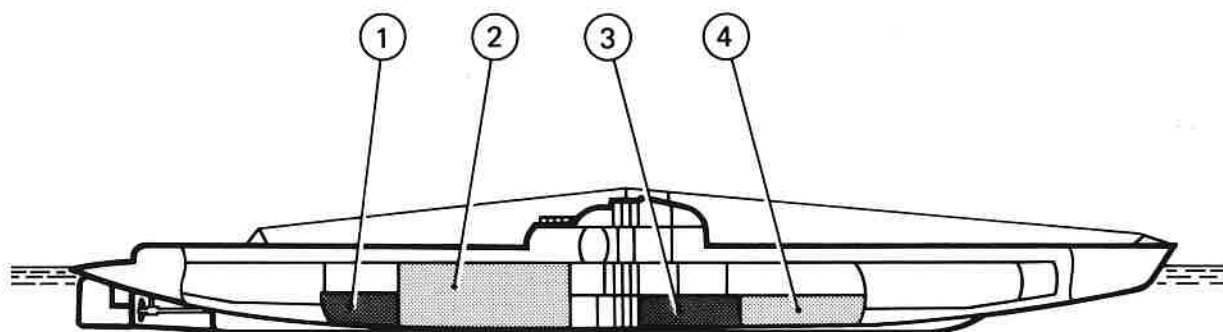


L'ANDROMÈDE



L'ARTEMIS II

EMERAUDE II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

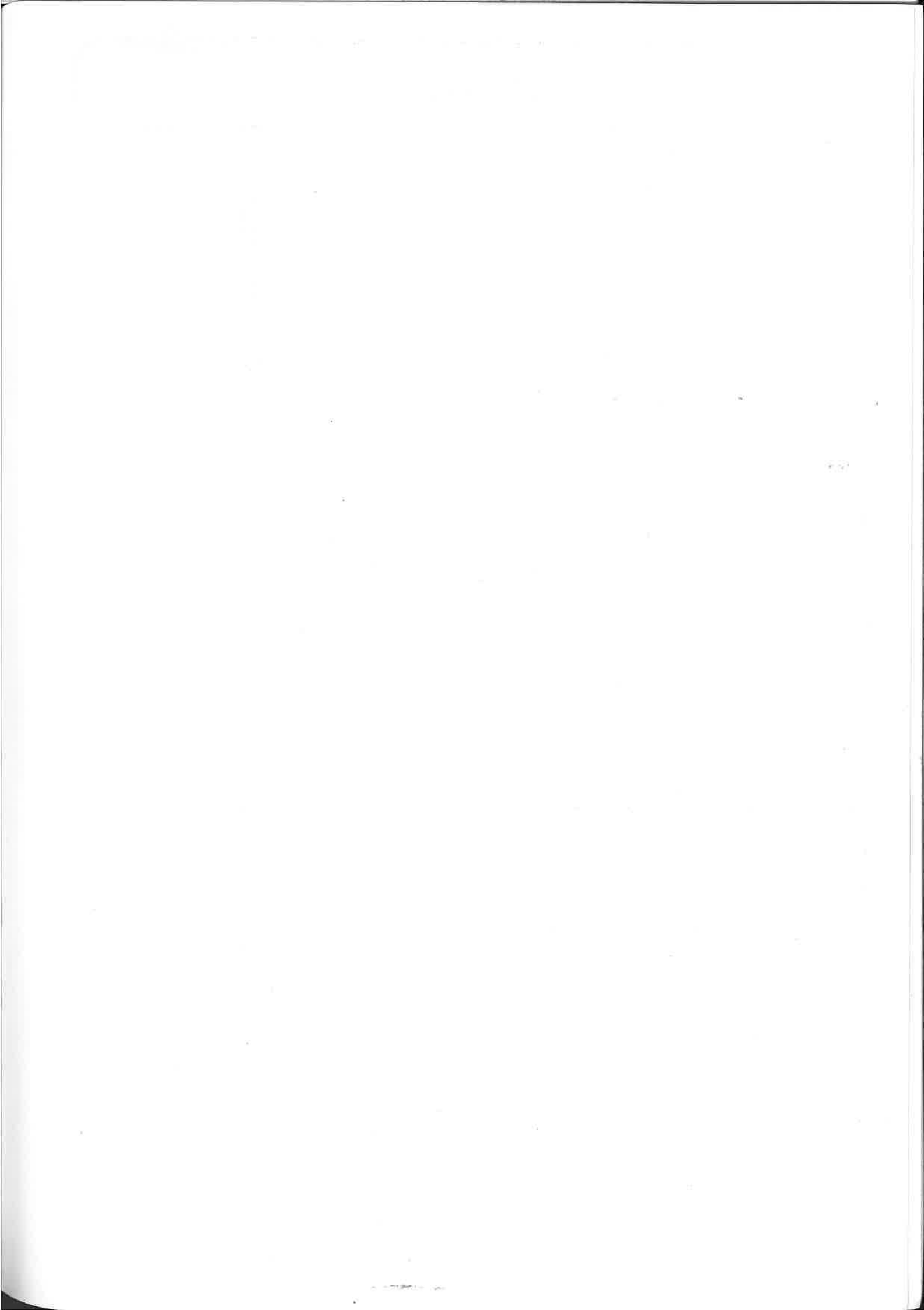
Surface displacement: 862 t
 Submerged displacement: 1190 t
 Length: 72.70 m
 Armament: 2 TTs
 6 × 550 torpedoes
 1 × 100 mm gun
 1 × 13.2 mm machine-gun

HISTORICAL DATA

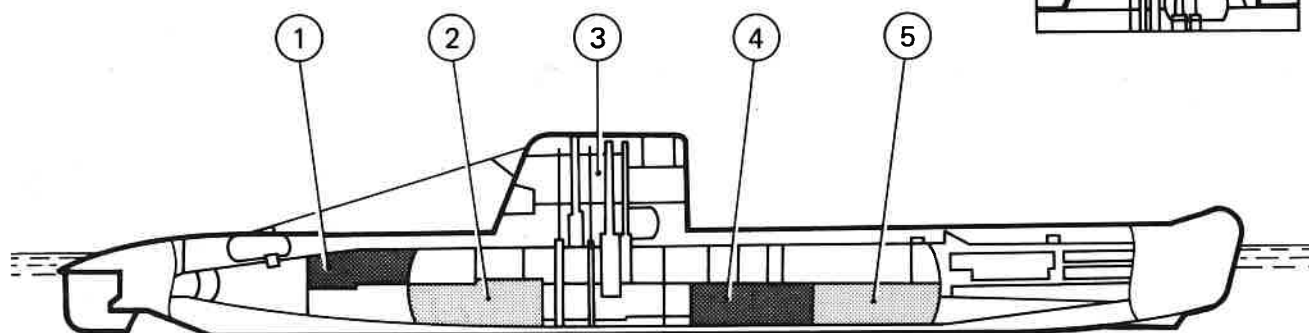
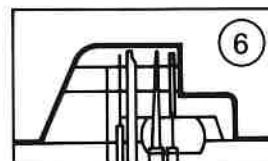
Q 197 ordered in 1937 - Designer: Normand

Q 208 - Q 209 - Q 210 ordered in 1939 - Designer: Fenaux

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 197	EMERAUDE II	To	1938	Scuttled on slip the 18-6-40			
Q 208	L'AGATE	S					
Q 209	LE CORAIL	S					
Q 210	L'ESCARBOUCLE	S					



NARVAL



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Reshaped sail
- 4 – Aft battery
- 5 – Fore battery
- 6 – Former submarine sail

CHARACTERISTICS

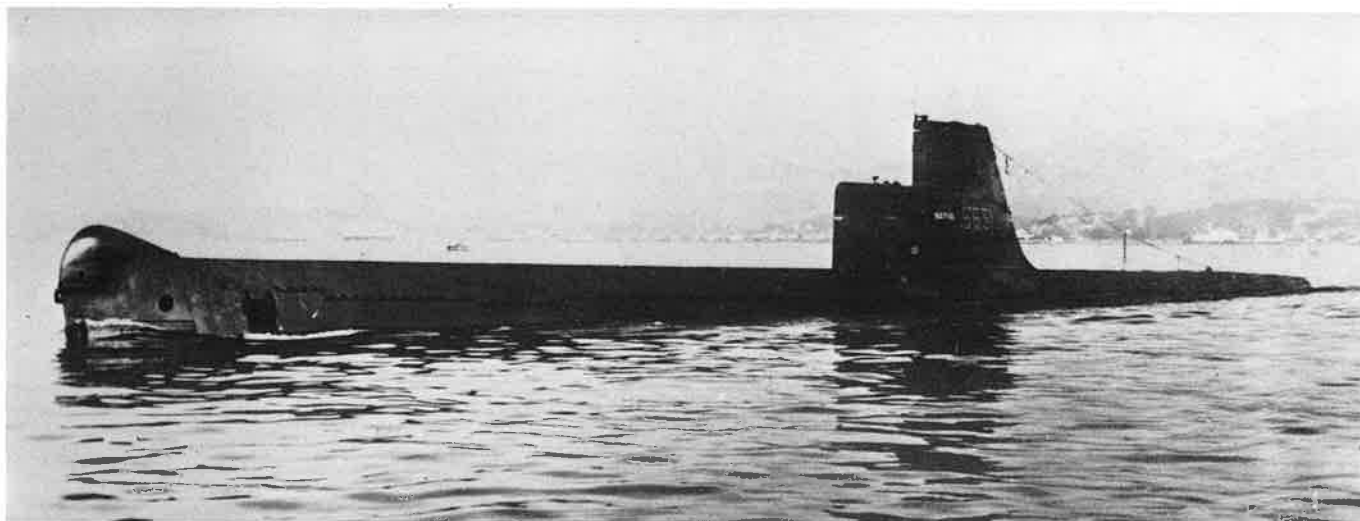
Surface displacement: 1644 t
 Reshaped: 1632 t
 Submerged displacement: 1910 t
 Reshaped: 1895 t
 Length: 78.375 m
 Armament: 6 × 550 TTs
 20 torpedoes or
 10 torpedoes and 18 mines

HISTORICAL DATA

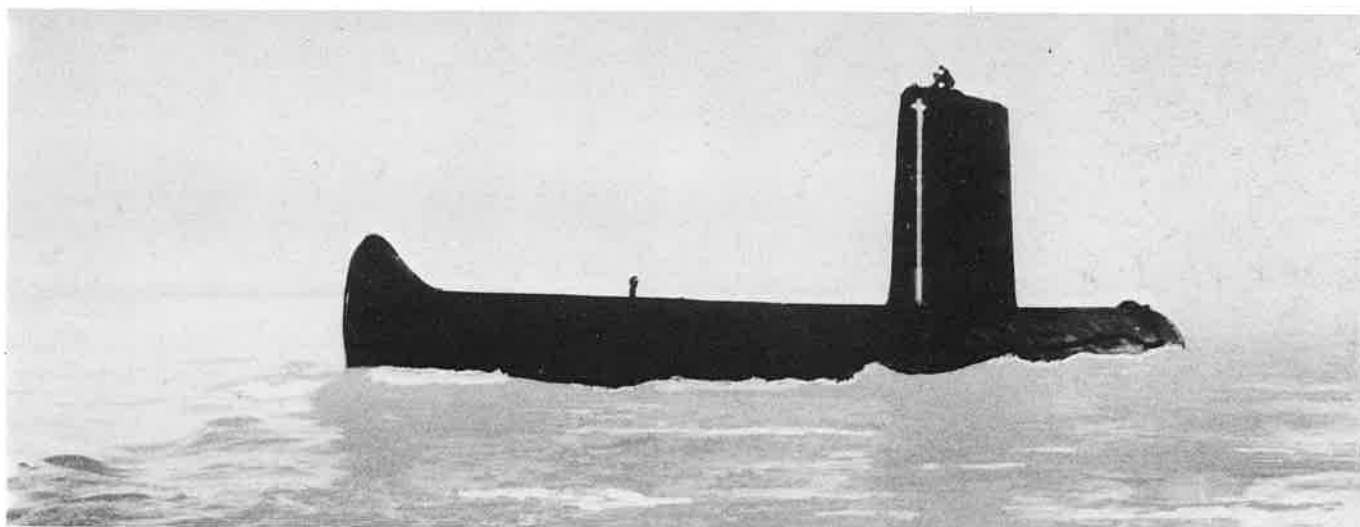
Ordered from 1949 to 1954 - Designer: Dupont De Dinechin

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 231	NARVAL	Ch	1951	1954	1957	1983	laid up
Q 232	MARSOUIN II	Ch	1951	1955	1957	1982	laid up
Q 233	DAUPHIN III	Ch	1952	1955	1958	transformed in expe- rimental submarine	
Q 234	REQUIN II	Ch	1952	1955	1958	1985	laid up
Q 237	ESPADON III	N	1955	1958	1960	1985	laid up
Q 238	MORSE IV	W	1956	1958	1960	1986	laid up

NARVAL



NARVAL

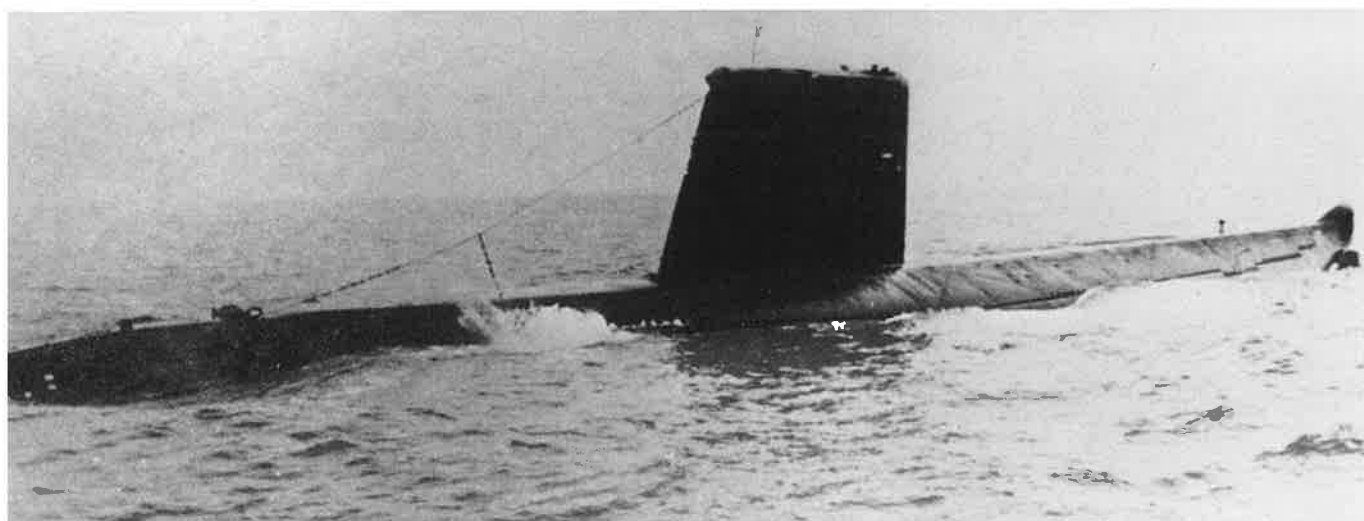


NARVAL (REFONDU)



MARSOUIN II

NARVAL



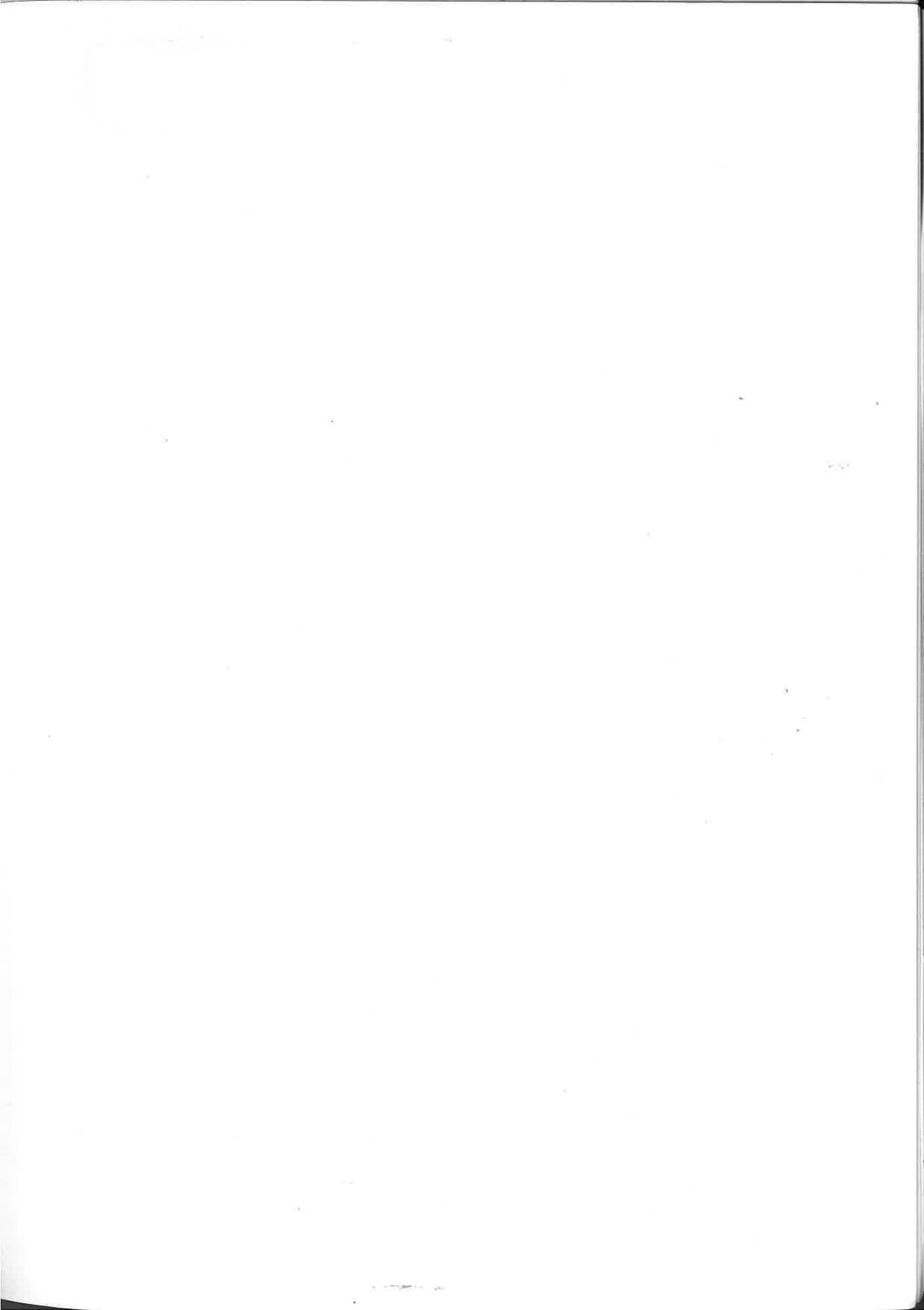
REQUIN II (REFONDU)



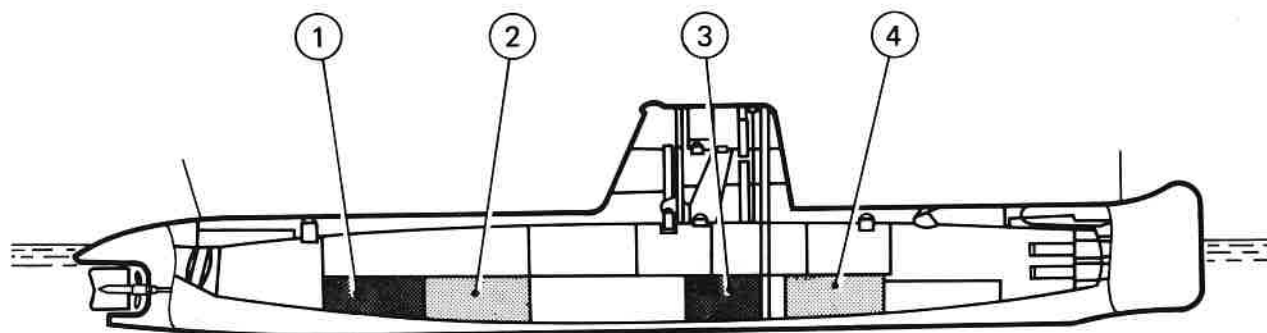
ESPADON III



MORSE IV



ARETHUSE III



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 543 t
 Reshaped: 669 t
 Submerged displacement: 49.6 m
 Length: 49.6 m
 Armament: 4 TTs
 8 torpedoes

HISTORICAL DATA

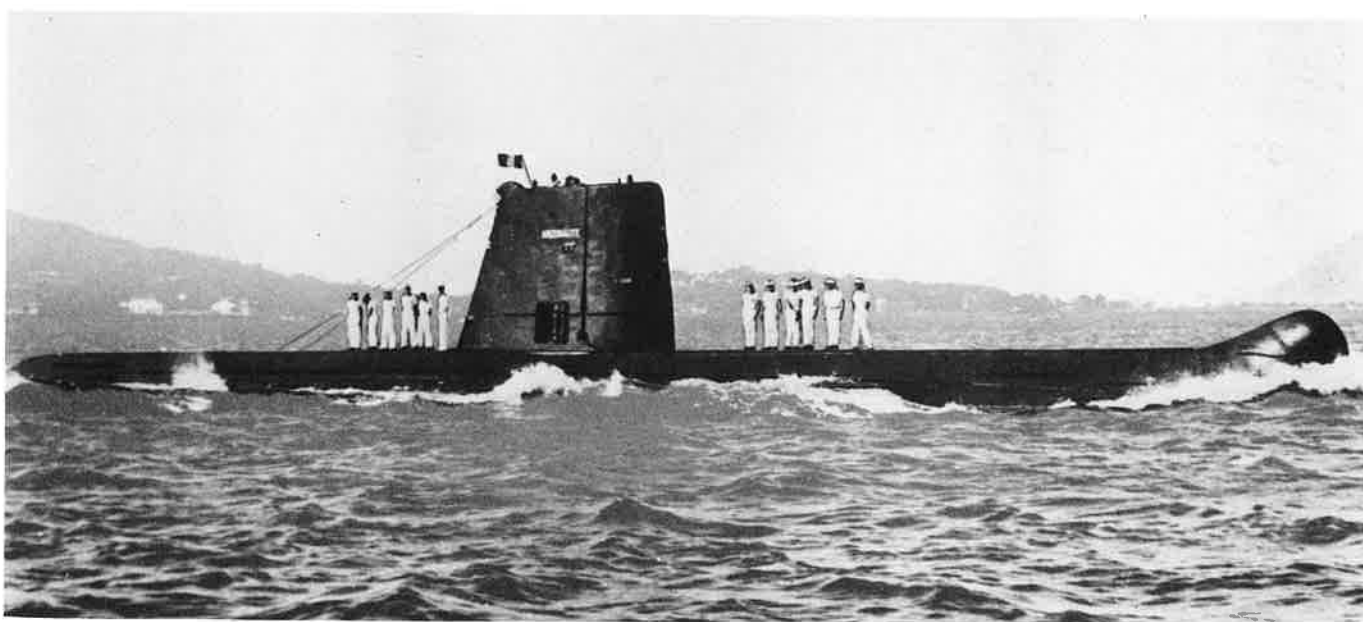
Ordered from 1953 to 1954 - Designer: Girousse

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 236	ARETHUSE III	Ch	1954	1957	1959	1979	laid up
Q 235	ARGONAUTE III	Ch	1954	1957	1958	1982	laid up
Q 239	AMAZONE III	Ch	1955	1958	1959	1981	laid up
Q 240	ARIANE III	Ch	1955	1958	1960	1981	laid up

ARETHUSE III



ARETHUSE III



ARGONAUTE III

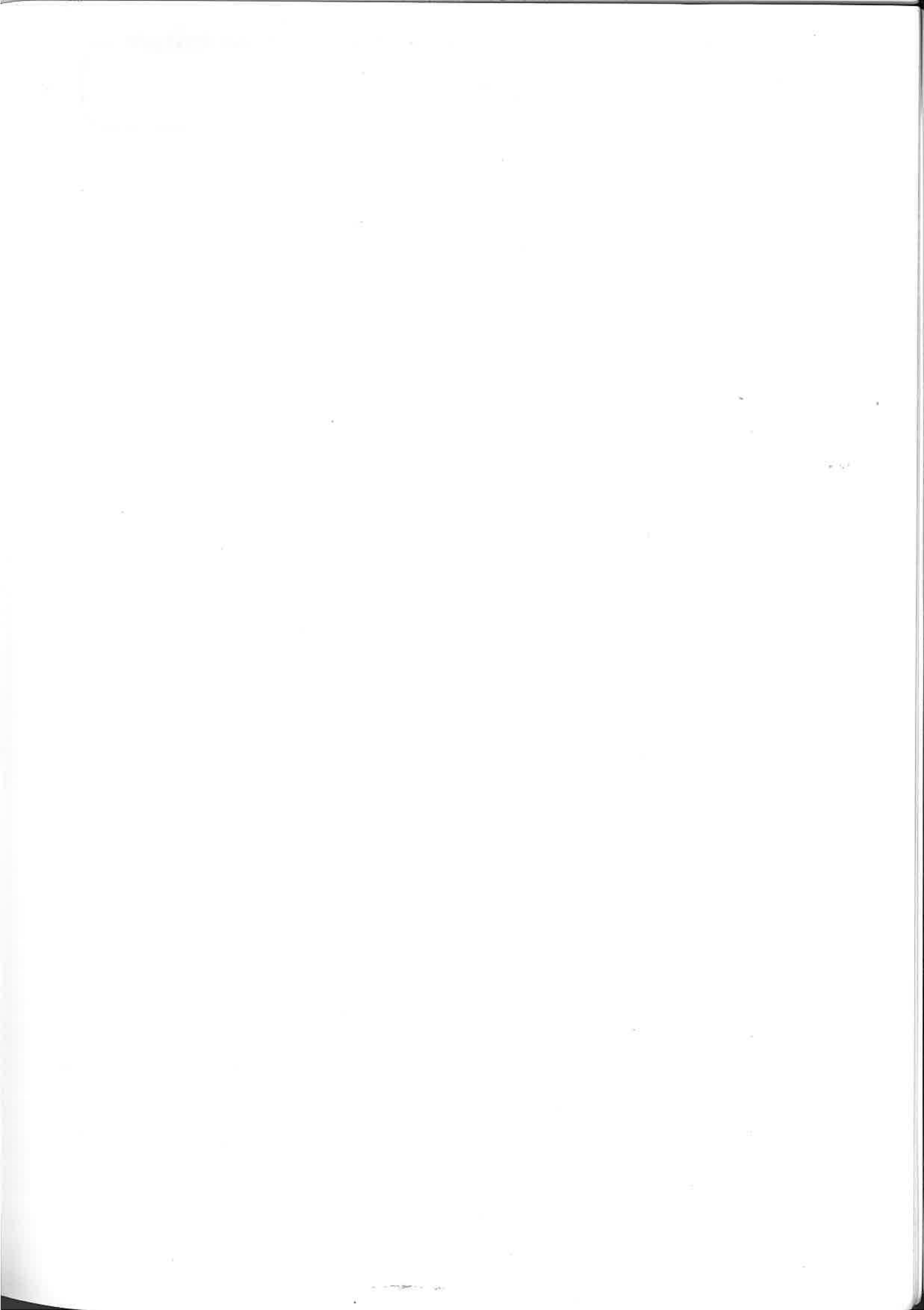
ARETHUSE III



AMAZONE III

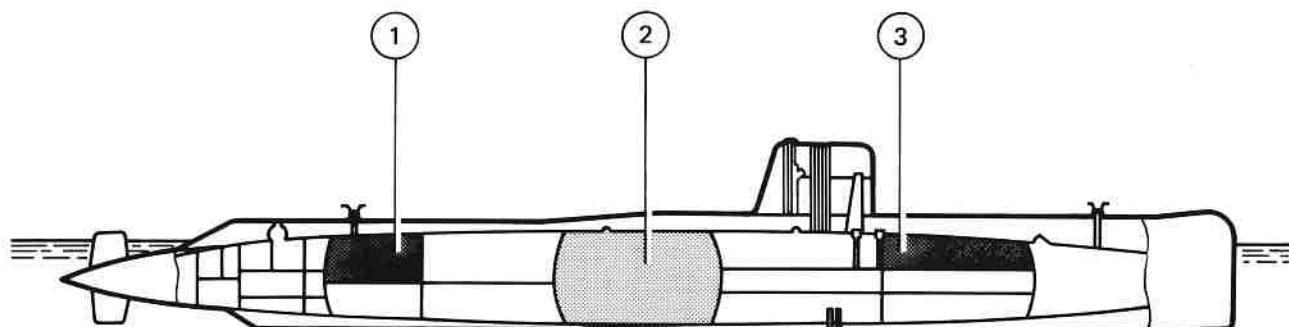


ARIANE III





Q 244



KEY

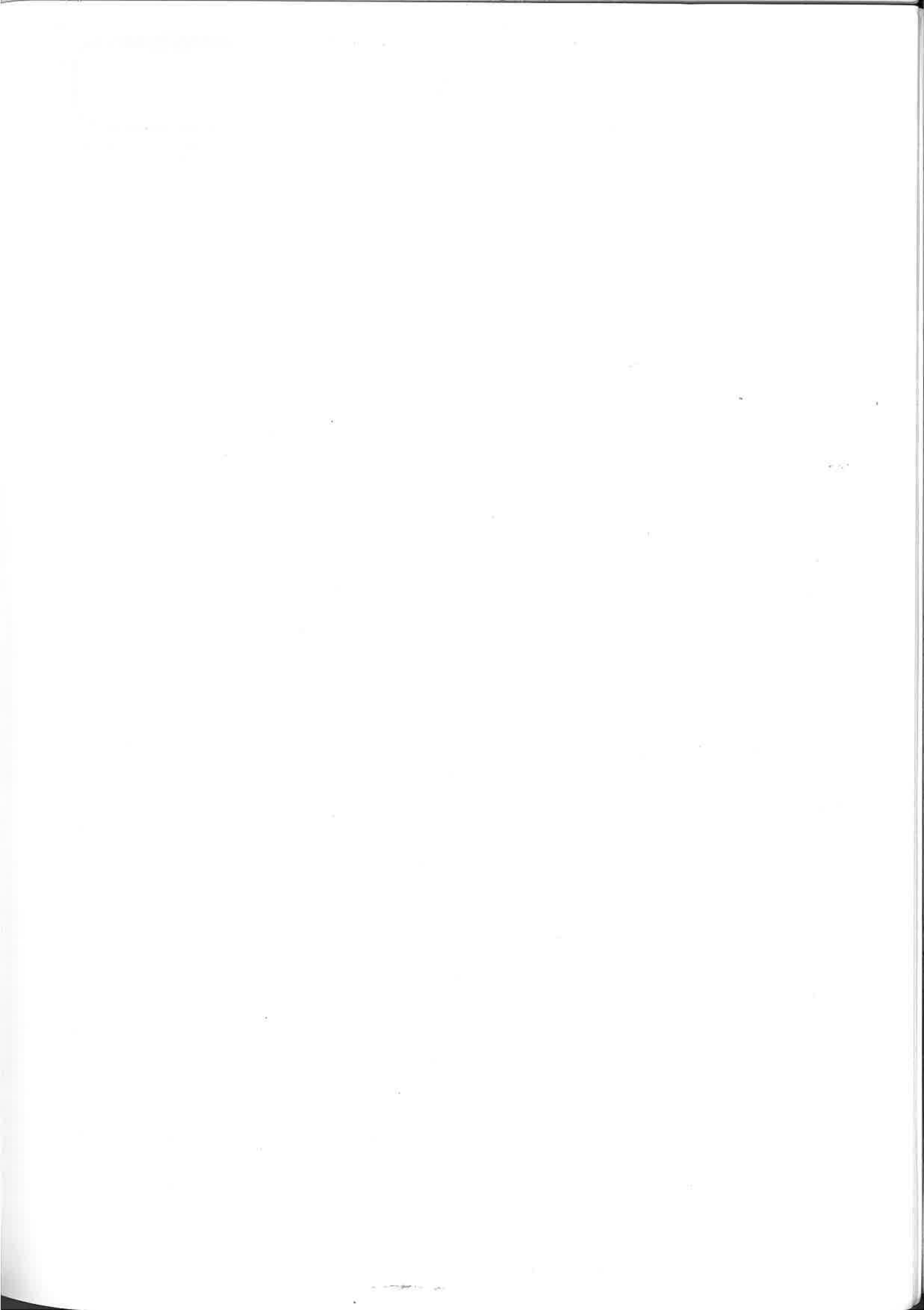
- 1 – Propulsion compartment
- 2 – Nuclear boiler compartment
- 3 – Battery compartment

CHARACTERISTICS

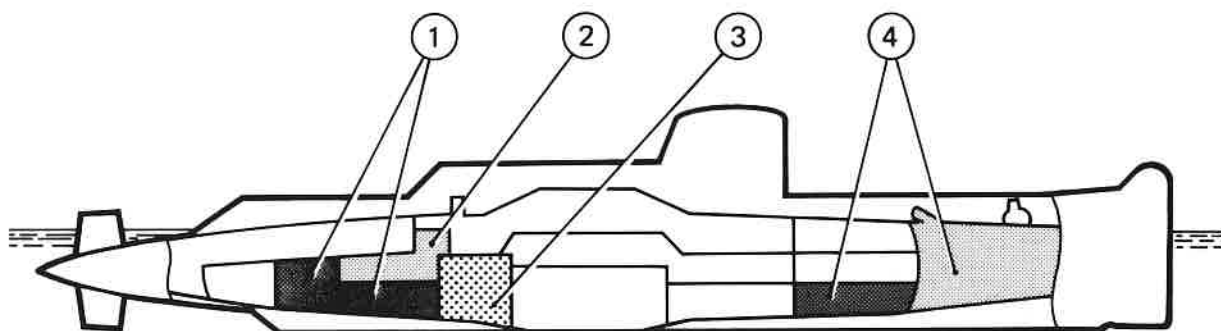
Surface displacement: 4868 t
 Submerged displacement: 5990 t
 Length: 113.75 m
 Armament:
 8 TTs
 20 spare torpedoes
 1 × 100 mm gun
 1 × 13.2 mm machine gun

HISTORICAL DATA

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 244		Ch	2-07-1955	Building stopped at the end of 1958 Submarine not built			



GYMNOTE II



KEY

- 1 – Electric motor
- 2 – Diesel engine
- 3 – Aft battery
- 4 – Fore battery

CHARACTERISTICS

Surface displacement: 3254 t
 Submerged displacement: 3840 t
 Length: 83.80 m
 Armament: 4 missile launching tubes

HISTORICAL DATA

Submarine built with parts of the Q 244.

This submarine was designed for training purposes and in order to study the problems of ballistic missile launching.

Ordered the 06-12-1960 - Designer: Gempp

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
Q 251	GYMNOTE II	Ch	1963	1964	1966	1986	laid up



GYMNOTE II



GYMNOTE II



FORMER ENNEMY SUBMARINES, TRANSFERRED TO SERVICE UNDER FRENCH FLAG FROM 30-08-1917 TO 1922

KEY

CHARACTERISTICS

HISTORICAL DATA

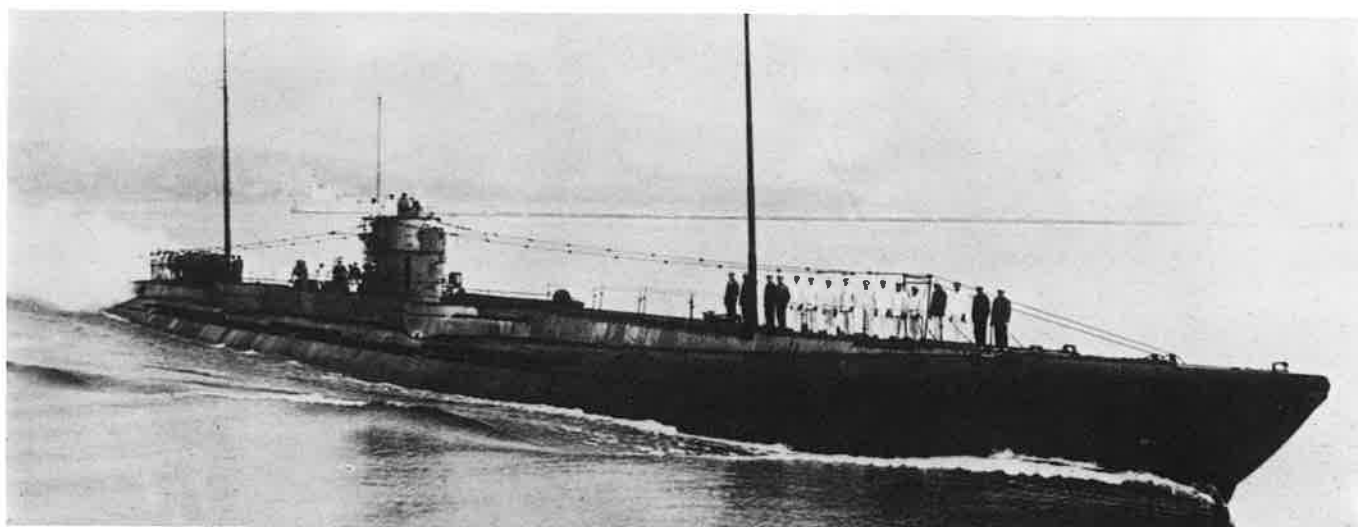
1 previously - UB - 26
E 2 previously - U - 139
E 3 previously - U - 105
E 4 previously - U - 108

E 5 previously - U - 162
E 6 previously - U - 166
E 7 previously - UB - 99
E 8 previously - UB - 94

E 9 previously - UB - 155
E 10 previously - U - 119
E 11 previously - U - 79

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
E 1	R. MORILLOT II	AGW	1915	1915	1917	1925	
E 2	HALBRONN	GK	1916	1917	1922	1935	
E 3	JEAN AUTRIC	GWK	1916	1917	1922	1937	
E 4	LEON MIGNOT	GWK	1916	1917	1922	1935	
E 5	P. MARRAST	VB	1917	1918	1922	1936	
E 6	JEAN ROULIER	VB	1917	1918	1922	1935	
E 7	CARISSAN	VB	1917	1918	1922	1935	
E 8	T. SCHILLEMANS	VB	1917	1918	1922	1935	
E 9	JEAN CORRE	VB	1917	1918	1922	1937	
E 10	RENE AUDRY	VH	1917	1918	1922	1937	
E 11	V. REVEILLE	VH	1915	1916	1922	1935	

FORMER ENEMY SUBMARINES



HALBRONN



JEAN AUTRIC

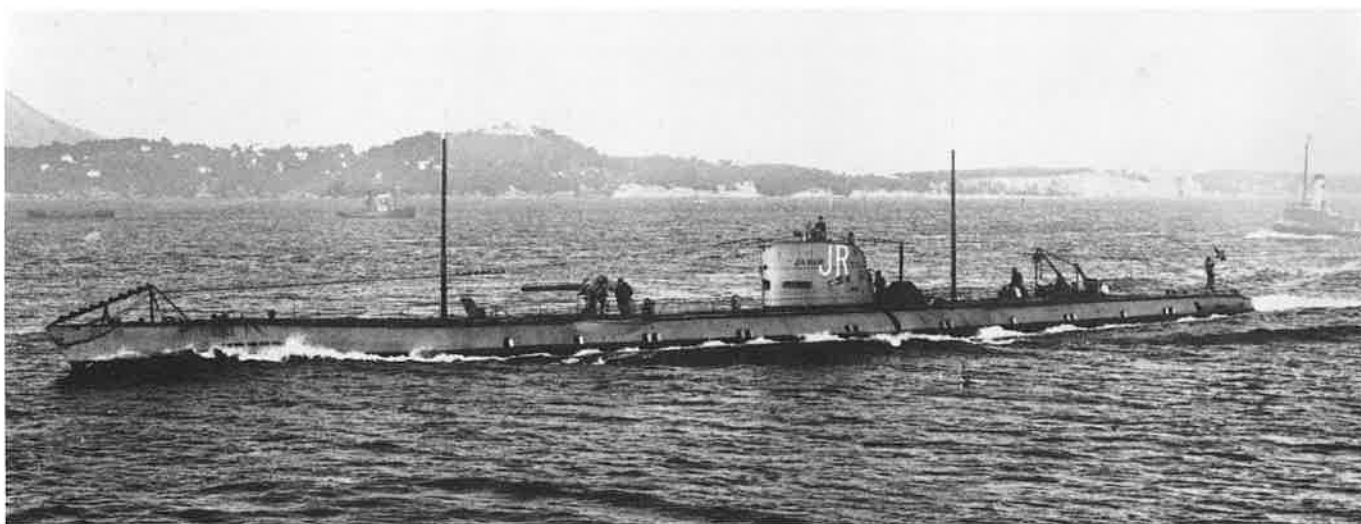


LEON MIGNOT

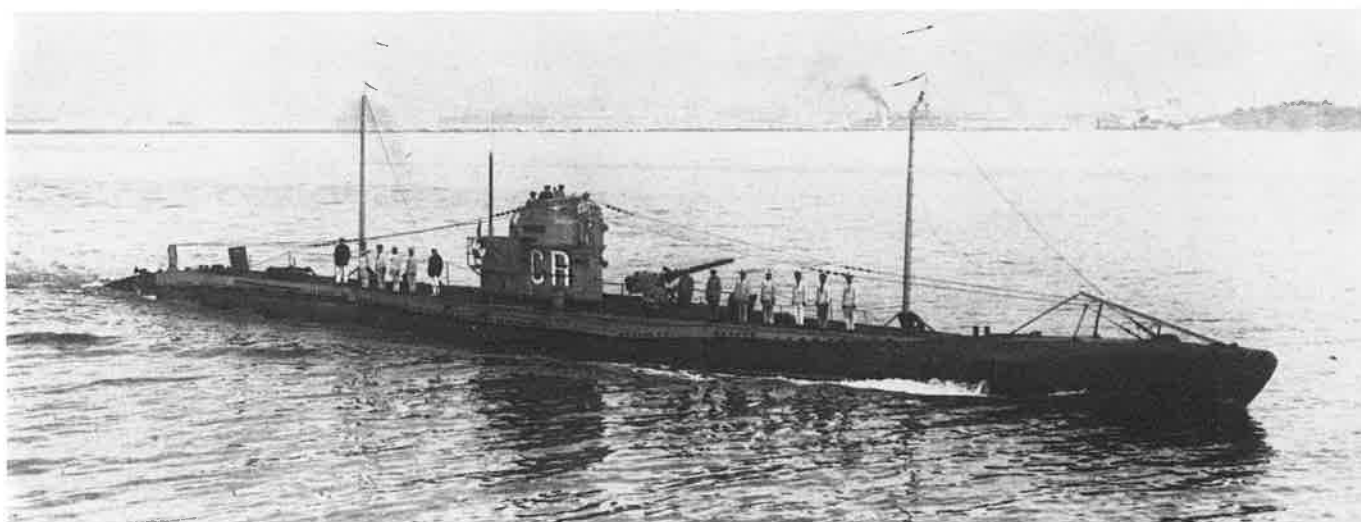
FORMER ENEMY SUBMARINES



PIERRE MARRAST



JEAN ROULIER



CARISSAN

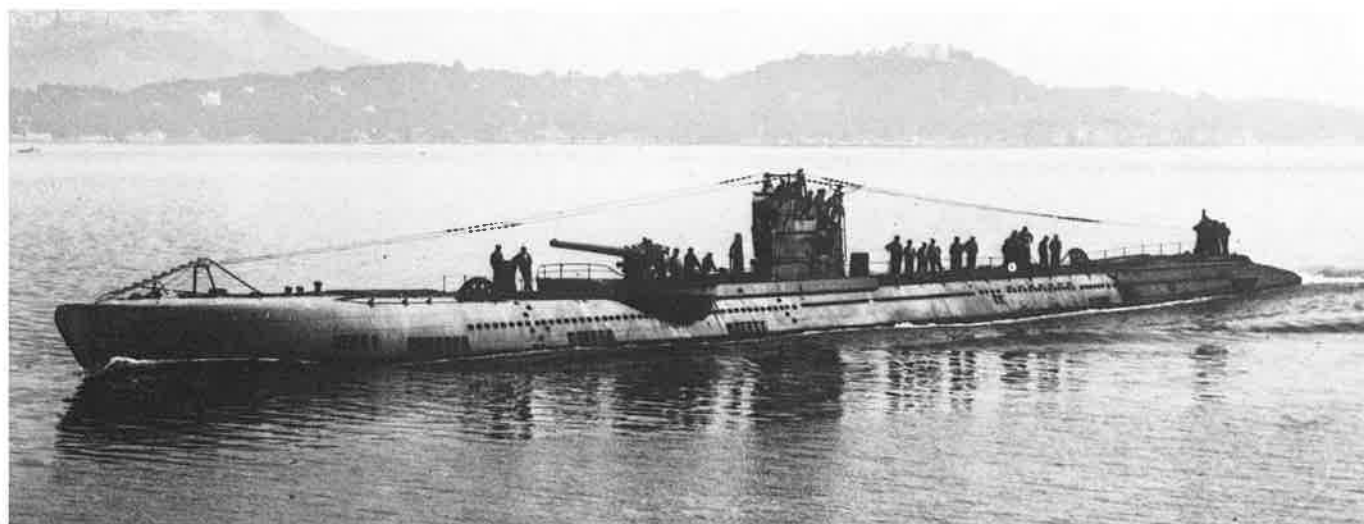
FORMER ENNEMY SUBMARINES



TRINITE-SCHILLEMANS



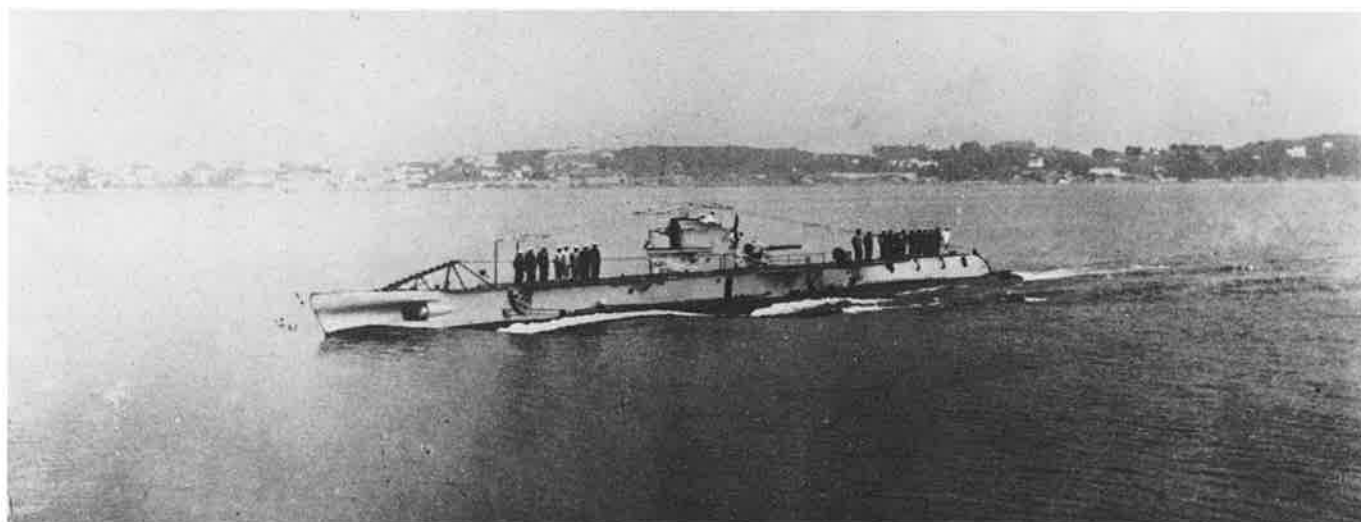
JEAN CORRE



RENE AUDRY



FORMER ENNEMY SUBMARINES



VICTOR REVEILLE

FORMER ENNEMY SUBMARINES, INCORPORATED UNDER FRENCH FLAG

KEY

CHARACTERISTICS

HISTORICAL DATA

E 13 previously - U - 2518

E 16 previously - U - 471

E 19 previously - U - 90

E 14 previously - U - 123

E 17 previously - U - 766

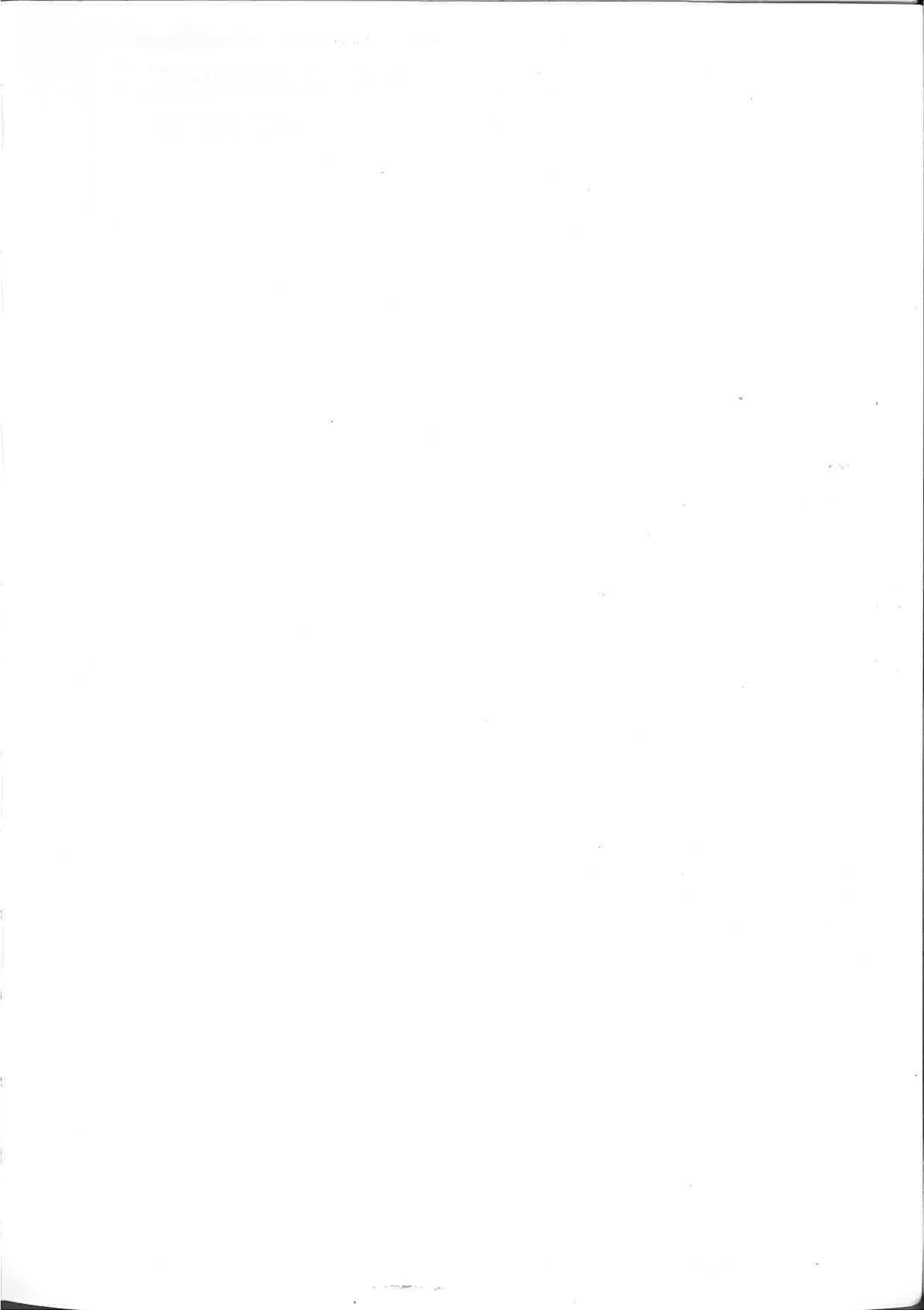
E 20 previously - U - 107

E 15 previously - U - 510

E 18 previously - U - 74

E 21 previously - U - 365

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
E 12	U-2326	DW	1944	1944	1946	1946	sunk
E 13	R. MORILLOT III	BWH	1944	1944	1946	1967	laid up
E 14	BLAISON	DB	1941	1941	1947	1957	laid up
E 15	BOUAN	DWH	1940	1941	1947	1959	laid up
E 16	MILLE	DWH	1943	1943	1946	1962	laid up
E 17	LAUBIE	KMW	1943	1943	1946	1961	laid up
E 18	S-621	CLS	1944	1944	1945	1954	laid up
E 19	S-622	CLS	1944	1944	1945	1954	laid up
E 20	S-623	CSL	1944	1944	1945	1954	laid up
E 21	S-624	CLS	1944	1944	1945	1959	laid up





FOREIGN BUILT SUBMARINES, TRANSFERRED INTO SERVICE UNDER FRENCH FLAG

KEY

CHARACTERISTICS

HISTORICAL DATA

T1 previously - Vox - 67 - G.B. T3 previously - Vortex - G.B.
T2 previously - Vineyard - G.B. T4 previously - P714, previously - Bronzo - G.B.

HULL NUMBER	NAME	NS	LAID DOWN	LAUNCHED	COMMISSIONED	ACTIVE SERVICE END	
						DATE	CAUSE
T 1	CURIE II	VA	—	1943	1943	1946	
T 2	DORIS II	VA	—	1944	1944	1947	
T 3	MORSE III	VA	—	1944	1944	1946	
T 4	NARVAL III	TT	—	1941	1944	1945	

