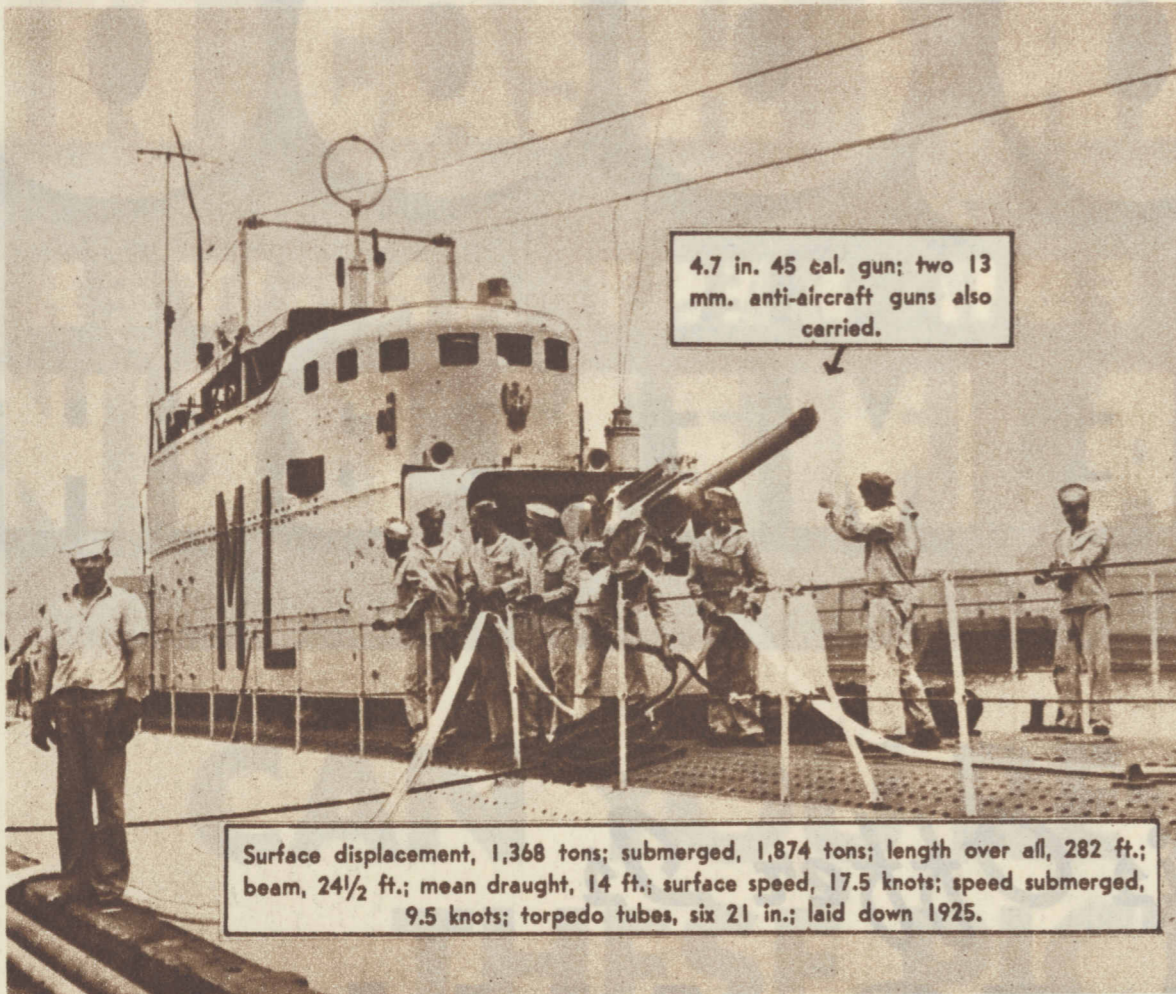


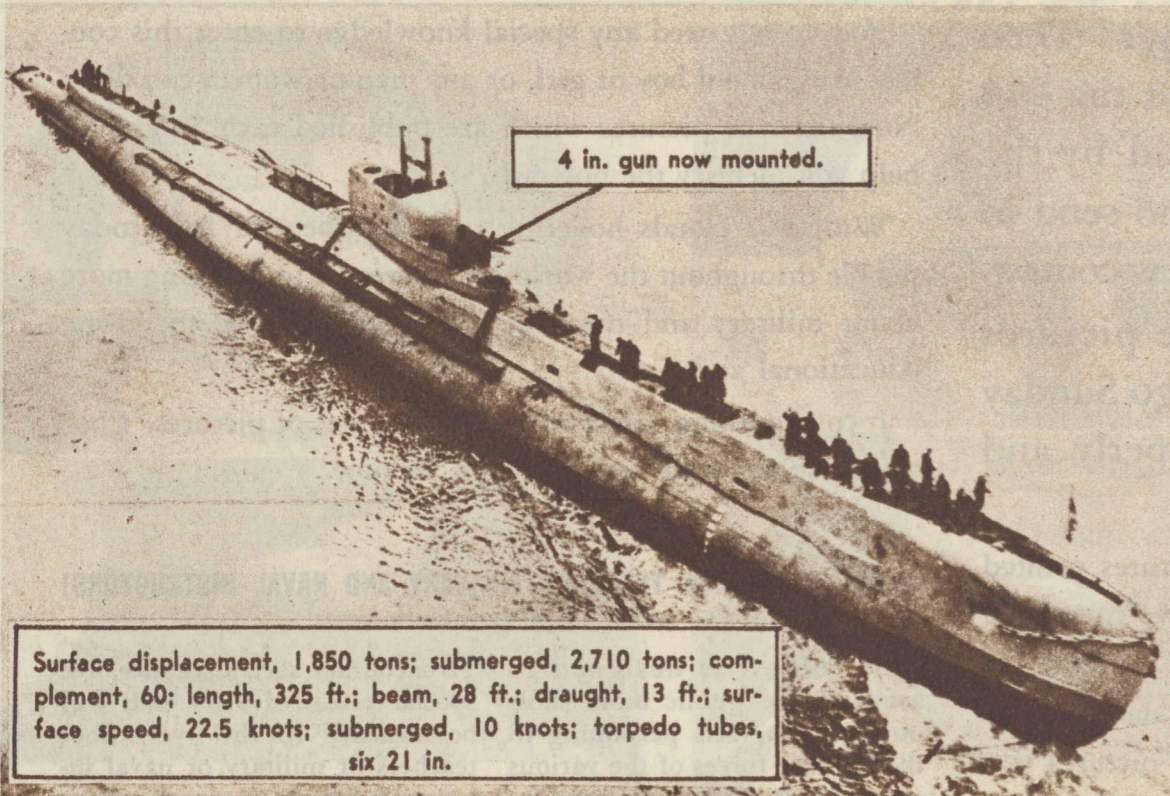
The U. S. Navy Outstripped: No. 4: Submarines



4.7 in. 45 cal. gun; two 13 mm. anti-aircraft guns also carried.

Surface displacement, 1,368 tons; submerged, 1,874 tons; length over all, 282 ft.; beam, 24½ ft.; mean draught, 14 ft.; surface speed, 17.5 knots; speed submerged, 9.5 knots; torpedo tubes, six 21 in.; laid down 1925.

THE SUBMARINE BREAKS INTO THE BIG GUN CLASS—A deck scene aboard Italy's ocean-going Domenico Millicore, showing how its 4.7 inch rifle is mounted. This vessel is designed for deep diving; of extremely staunch construction, it embodies a number of innovations which are said to give it unequalled safety, both in submerging and maneuvering. Italian undersea boats recently built can carry small seaplanes; three now building will mount two 4.7 inch guns instead of one, and eight torpedo tubes as against six.

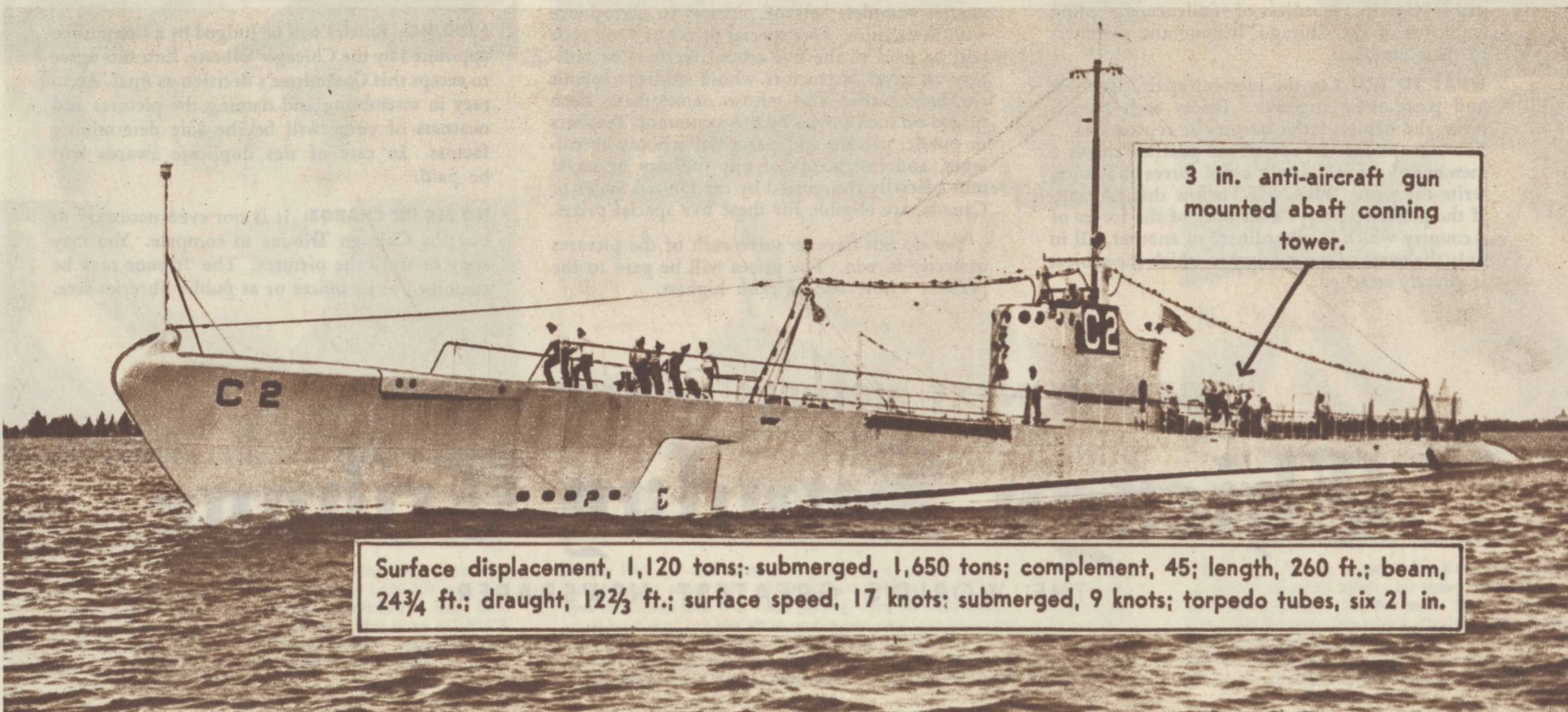


4 in. gun now mounted.

Surface displacement, 1,850 tons; submerged, 2,710 tons; complement, 60; length, 325 ft.; beam, 28 ft.; draught, 13 ft.; surface speed, 22.5 knots; submerged, 10 knots; torpedo tubes, six 21 in.

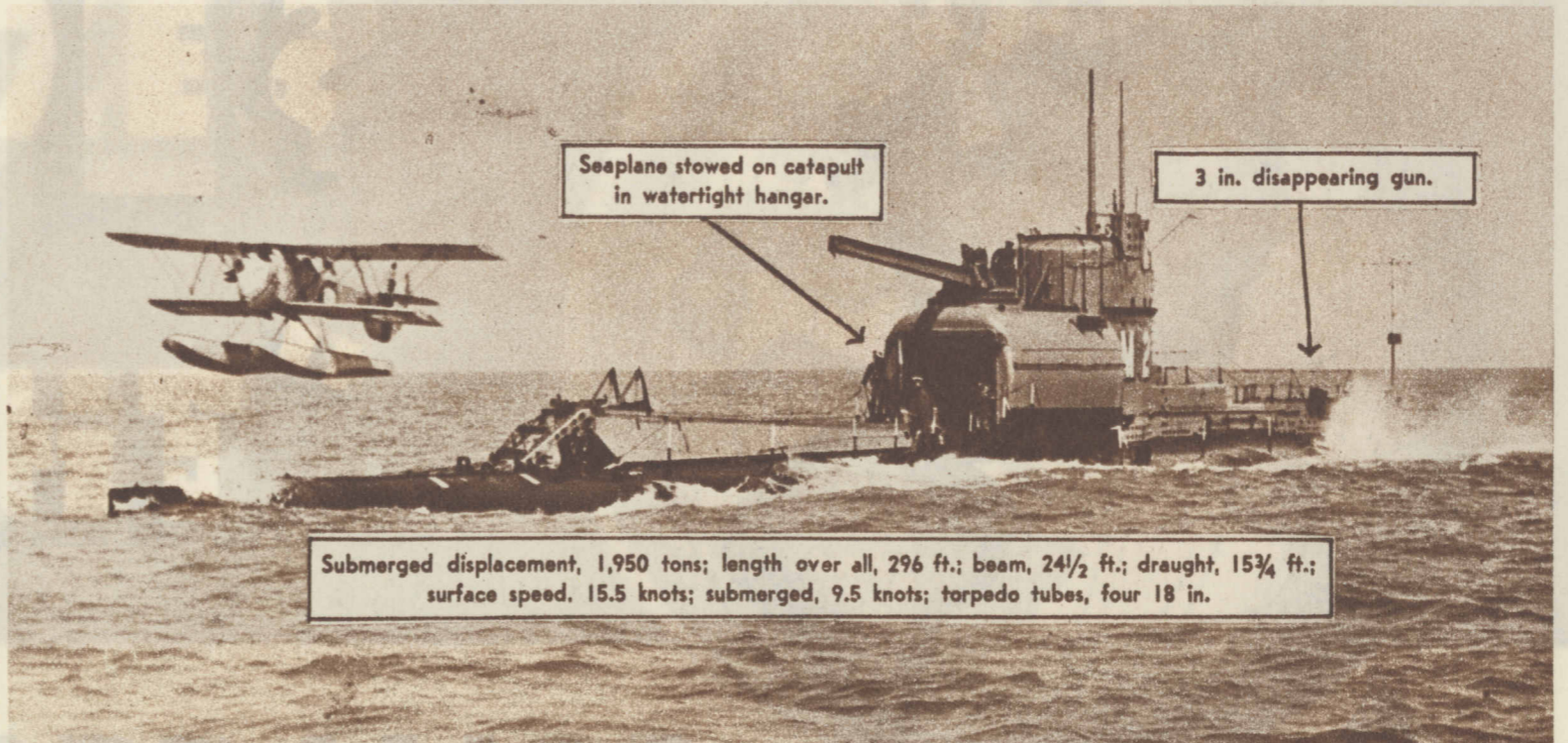
AMERICAN submarines, like American capital ships and cruisers, are far inferior in fighting strength and efficiency to those of Great Britain and Japan. Of 86 undersea boats in the United States navy, exactly half are over age. Pictured on this page are first line and experimental submarines developed by the powers, which every year make these vessels bigger, faster, more formidable.

THE MODERN BRITISH SUBMARINE—The Clyde, an ocean-going vessel, photographed shortly after it was launched and before completion. This is one of the greyhounds of undersea boats.



Surface displacement, 1,120 tons; submerged, 1,650 tons; complement, 45; length, 260 ft.; beam, 24¾ ft.; draught, 12½ ft.; surface speed, 17 knots; submerged, 9 knots; torpedo tubes, six 21 in.

ONE OF THE NEWEST UNITED STATES TYPES—The Cuttlefish, completed in 1934. In its more recent submarines, this country has not followed the European trend toward heavy surface armament.

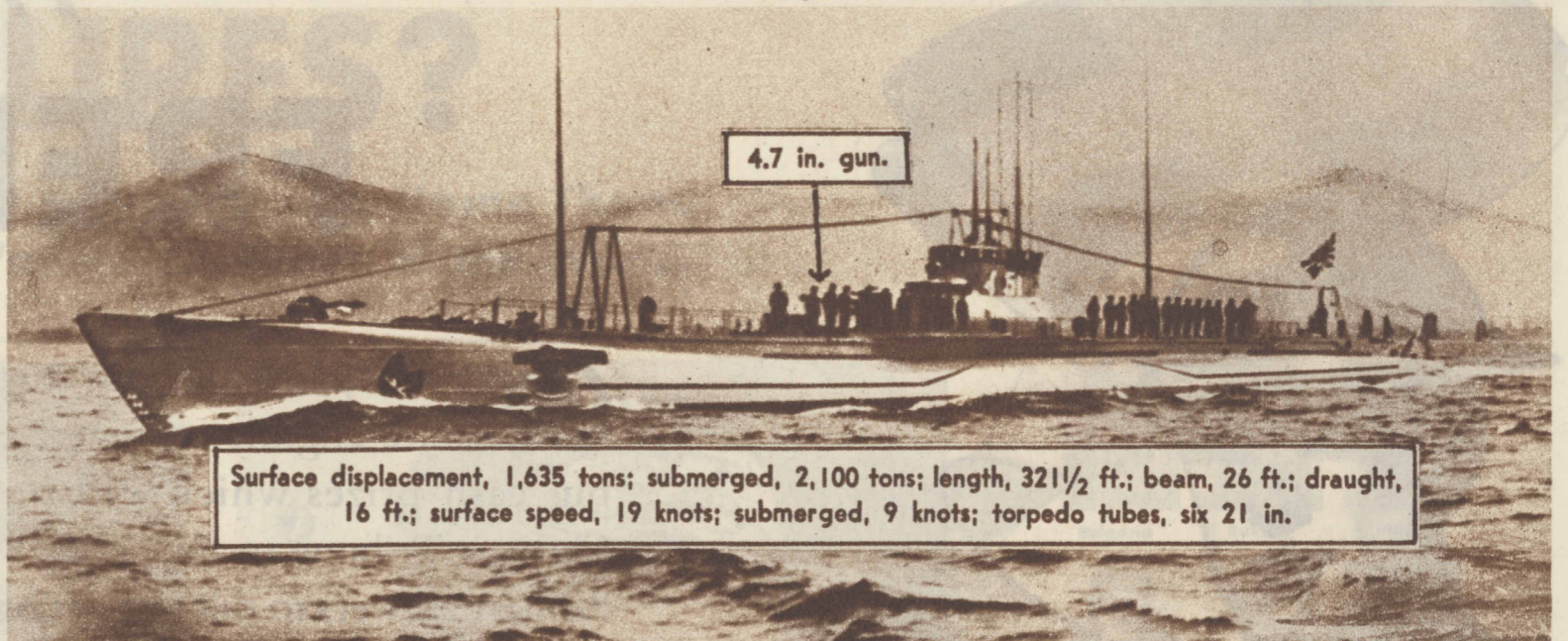


Seaplane stowed on catapult in watertight hangar.

3 in. disappearing gun.

Submerged displacement, 1,950 tons; length over all, 296 ft.; beam, 24½ ft.; draught, 15¾ ft.; surface speed, 15.5 knots; submerged, 9.5 knots; torpedo tubes, four 18 in.

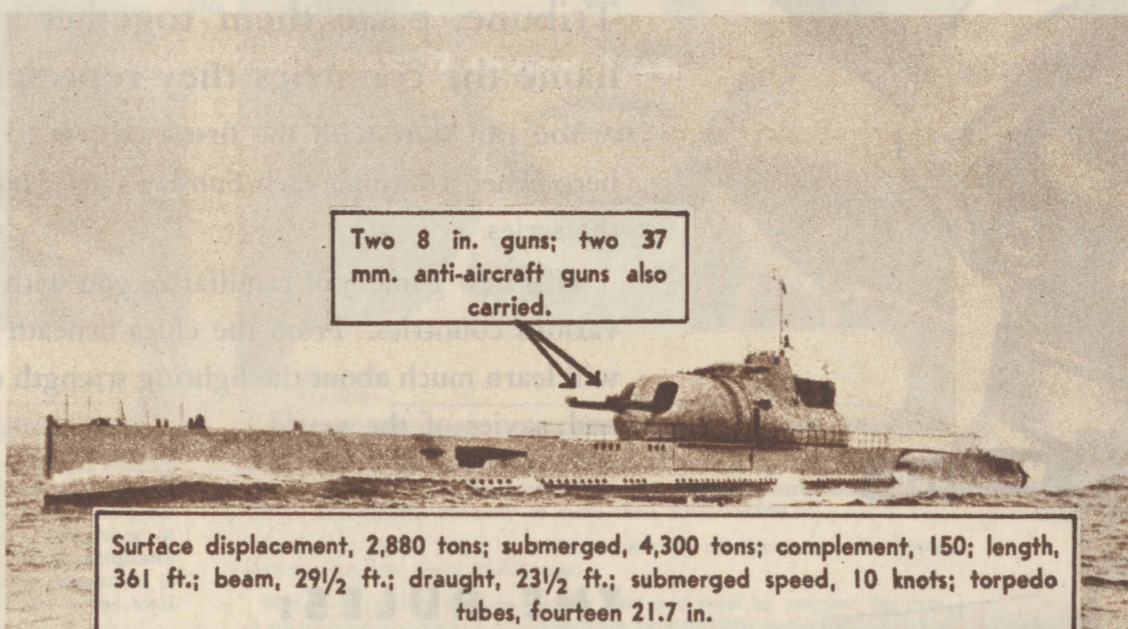
A VANISHED TERROR OF THE DEEP—This experimental British fighting machine, the M2, which bore its crew to death when it sank in 1932, is presented as an example of European trends toward carrying planes undersea. The seaplane stowed on this submarine was an aerial extension of the striking power of guns and torpedo tubes.



4.7 in. gun.

Surface displacement, 1,635 tons; submerged, 2,100 tons; length, 321½ ft.; beam, 26 ft.; draught, 16 ft.; surface speed, 19 knots; submerged, 9 knots; torpedo tubes, six 21 in.

CAPABLE OF A ROUND TRIP ACROSS THE PACIFIC without refueling are Japan's newer submarines. Some of the Japanese subs built since the I-61 (pictured) carry two 4.7 inch guns; some mount eight torpedo tubes; and most of them are faster.



Two 8 in. guns; two 37 mm. anti-aircraft guns also carried.

Surface displacement, 2,880 tons; submerged, 4,300 tons; complement, 150; length, 361 ft.; beam, 29½ ft.; draught, 23½ ft.; submerged speed, 10 knots; torpedo tubes, fourteen 21.7 in.

THE BIGGEST SUBMARINE IN THE WORLD is the French Surcouf, a diving corsair mounting the most powerful guns permitted by treaty. This nimble fighter submerges in two minutes. It is an experimental type, however, which France is not considered likely to repeat.

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