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Eighty-eighth year of issue

The standard reference of the world's navies

Edited by
Captain John Moore RN

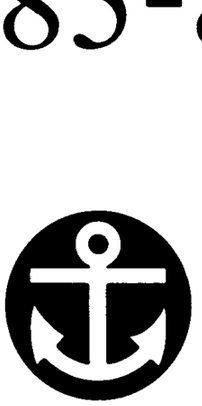
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JANE'S FIGHTING SHIPS

FOUNDED IN 1897 BY FRED T. JANE

EDITED BY
Captain JOHN MOORE RN, FRGS

1985-86



ISBN 0 7106-0814-4

JANE'S YEARBOOKS

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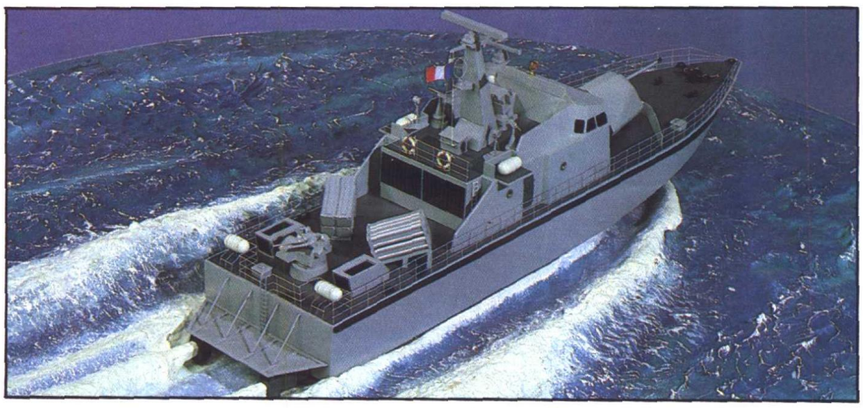
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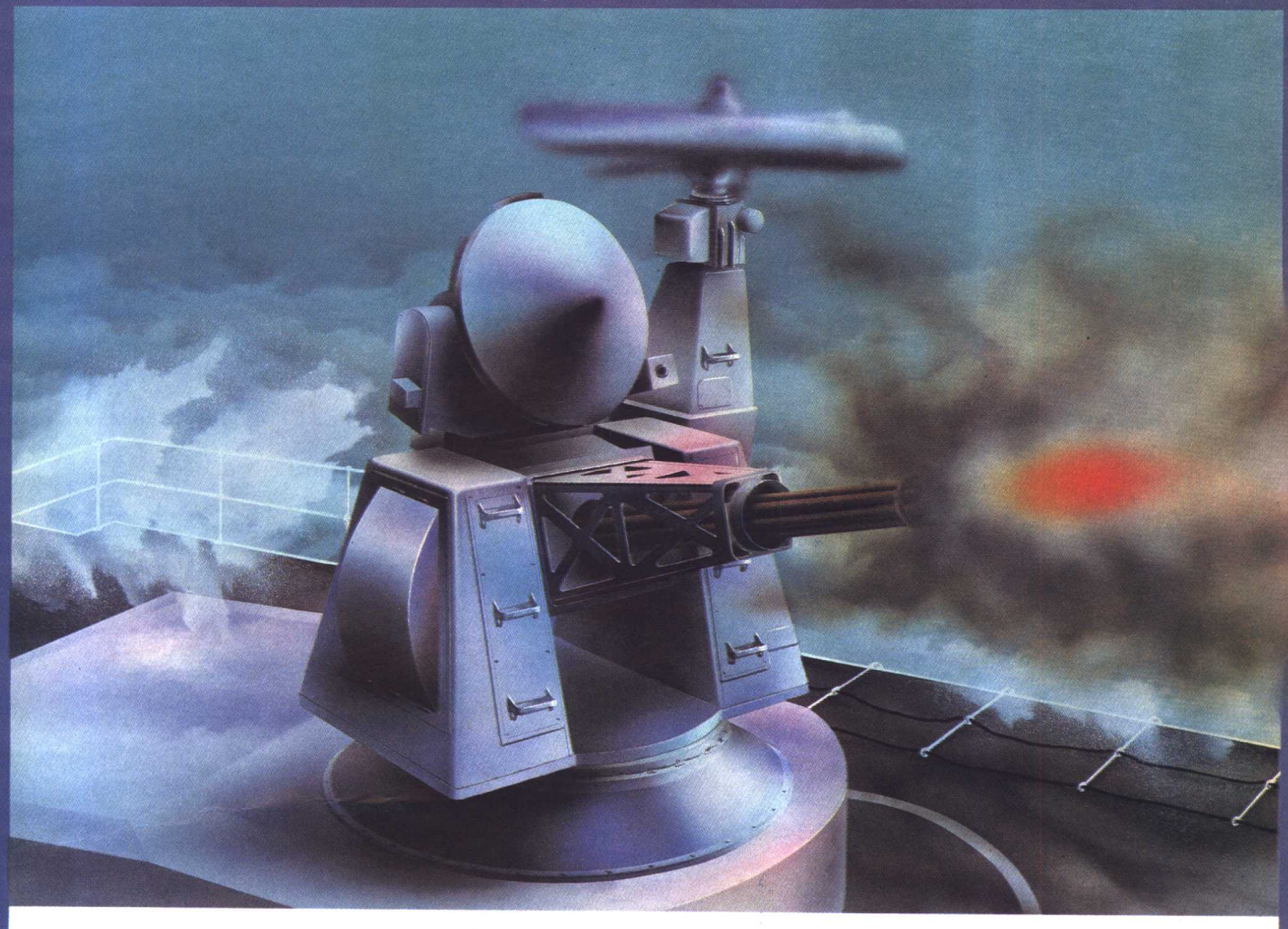


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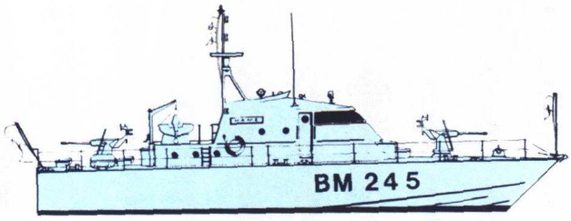
400 t Large Patrol Boat

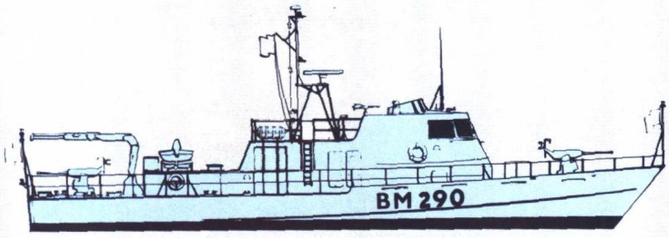


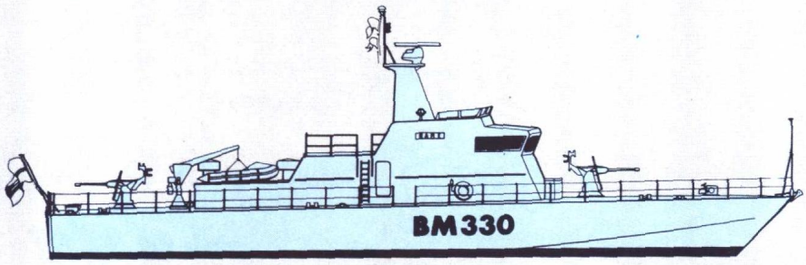
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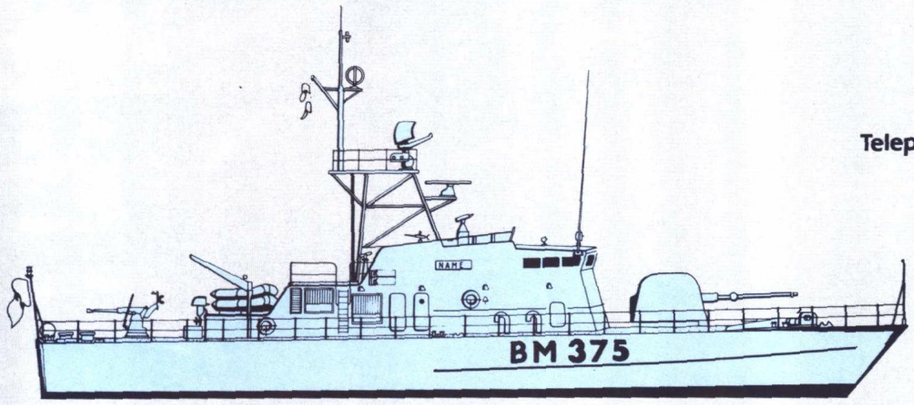
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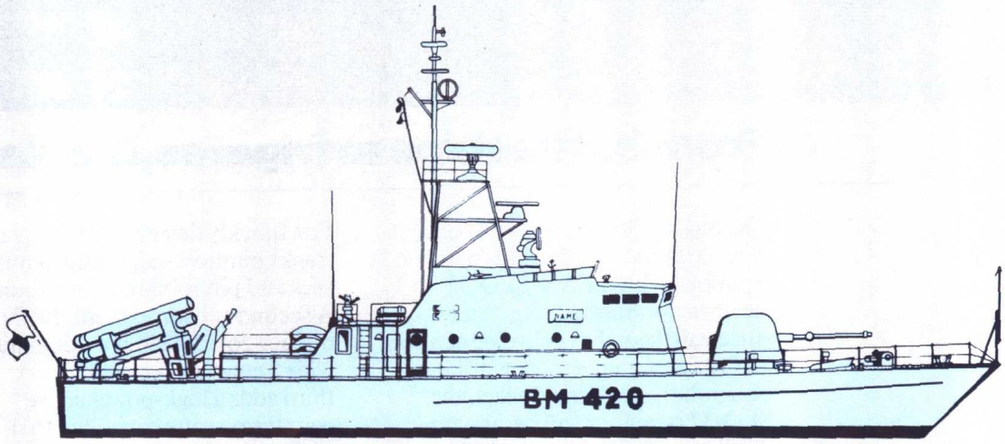
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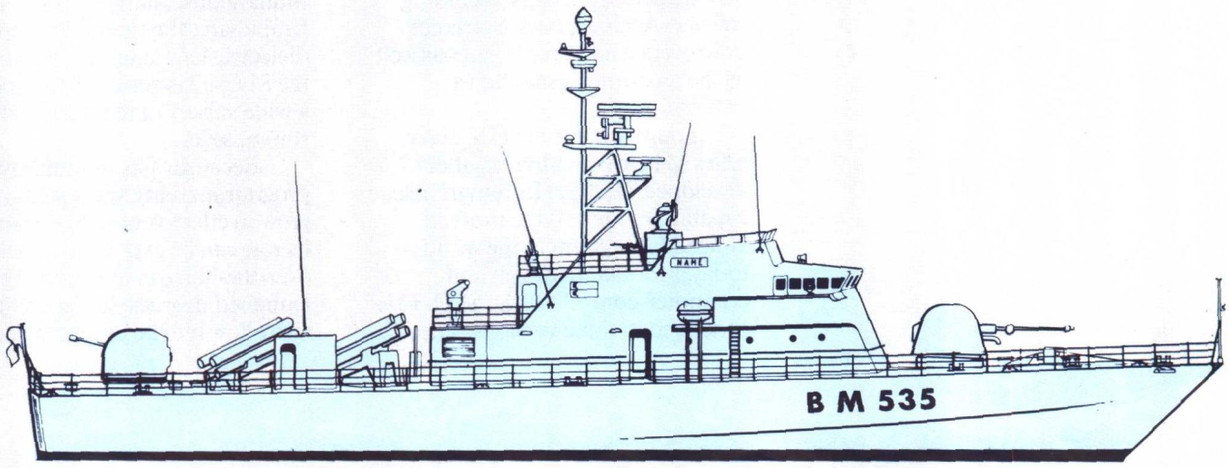












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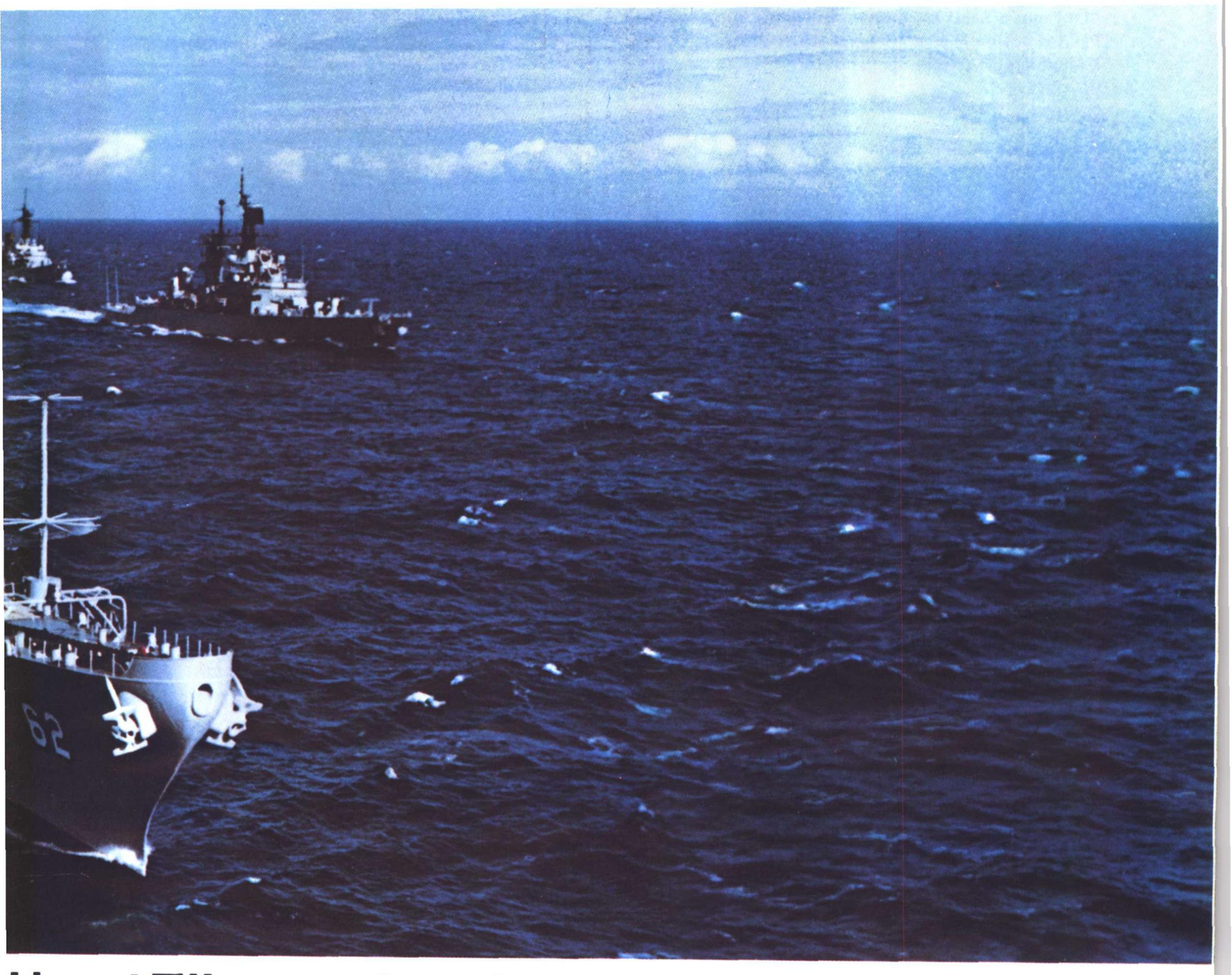
From battleships to frigates, the Navy's

The mighty *New Jersey*—just one of more than 175 U.S. ships now equipped with the AN/SLQ-32 electronic warfare system. And since Raytheon has delivered some 335 systems, many more will soon be similarly outfitted. In fact, the SLQ-32 is now, or will be, aboard 30 classes of U.S. ships, including the new Aegis cruisers, Spruance destroyers, and Perry frigates as well as the recommissioned Iowa battleships.

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Because of its modularity and programmability, the system can grow in effectiveness. For example, its role can be expanded to help in over-the-horizon targeting of ship-launched missiles. Its capabilities also allow it to be used to detect and

0861508



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The AN/SLQ-32—moving all ahead full to protect the U.S. fleet.

For more information, please write to Raytheon Company, Government Marketing, 141 Spring Street, Lexington, MA 02173.

The SLQ-32 system enables operators to quickly track and identify incoming missiles.



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Ship Reference Section

Number of ships Totals of vessels per class are stated as follows: active + building + ordered (proposed)

Displacement Tonnages are included in both standard and full load displacements — that of standard because it is used in international documents (eg the London Treaty of March 1936 and the Montreux Convention of July 1936) and is defined as "the displacement of the vessel, complete, fully manned, engined and equipped ready for sea — but without fuel or reserve feed-water on board."

Lengths Unless otherwise stated the lengths given are overall

Currencies Dollars are US dollars unless otherwise specified

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ALBANIA

Ministerial

Minister of Defence:
Prokop Murra
Deputy Minister of Defence and CGS:
Kico Mustaqi

Personnel

(a) 1985: Total 3 200 including 400 coastal frontier guards (1 500 afloat, 500 training, 1 000 ashore)
(b) *Ratings on 3 years' military service*

Bases

Durazzo (Durresi), Valona (Vlorë), Sazan Island (Gulf of Vlorë), Sarande, Shingjin, Paşa Liman.

Note: Sazan Island reported to have 16 underground berths and to be defended by 122 mm and 88 mm coast artillery.

General

Since the break with the USSR in 1961-62 the remaining Soviet craft have been decreasing in efficiency due to lack of spares. The transfer of Chinese craft since 1965 provided a small nucleus of new and effective vessels, although the current strained relations between the two countries (possibly improving) may have affected the supply of spare parts. If this is so the numbers listed below are probably inflated if maintenance has caused a need for cannibalisation.

Strength of the Fleet

Type	*Active*
Submarines	3
Fast Attack Craft (Torpedo)	32
Fast Attack Craft (Gun)	6
Large Patrol Craft	2
Minesweepers—Ocean	2
Minesweepers—Inshore	4
MSB	9
Tankers, small	4
Miscellaneous	approx 20

Mercantile Marine

Lloyd's Register of Shipping:
20 vessels of 56 133 tons gross

DELETIONS

Light Forces

1982 1 "Kronshtadt", 2 "PO 2" class
1983 12 "P 4" class

SUBMARINES

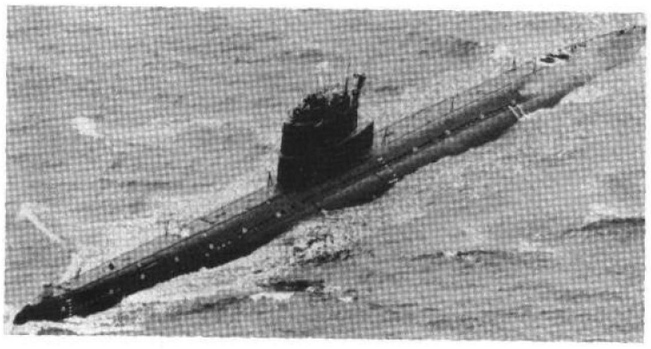
3 Ex-SOVIET "WHISKEY" CLASS

512 514 516

Displacement, tons: 1 080 surfaced; 1 350 dived
Dimensions, feet (metres): 249·3 × 21·3 × 16·1 *(76 × 6·5 × 4·9)*
Torpedo tubes: 4—21 in *(533 mm)* (bow); 2—16 in *(406 mm)* (stern); 14 torpedoes or 28 mines
Main machinery: Diesels; 2 shafts; 4 000 bhp = 18 knots surfaced;
2 electric motors; 2 700 hp = 14 knots dived
Range, miles: *13 000 at 8 knots surfaced*
Complement: 54

Two of these are operational and one is now used as a harbour training boat. All are based at Sazan. *Two were transferred from the USSR in 1960, and two others were reportedly seized from the USSR in mid-1961 on the withdrawal of Soviet ships from their Albanian base. One deleted from active list in 1976 and used as charging station. May still be numbered 510.*

Radar: Snoop Plate.



"WHISKEY" Class

LIGHT FORCES

2 Ex-SOVIET "KRONSHTADT" CLASS (LARGE PATROL CRAFT)

340 341

Displacement, tons: *298 standard; 330 full load*
Dimensions, feet (metres): 170·6 × 21·6 × 7·2 *(52 × 6·6 × 2·2)*
Guns: 1—3·5 in *(85 mm)*; 2—37 mm (single); 6—12·7 MGs (3 vertical twin)
A/S weapons: 2 DC projectors; 2 DC rails; 2—5-tube rocket launchers
Main engines: 3 diesels; 3 shafts; 3 300 bhp = 21 knots
Range, miles: 1 500 at 12 knots
Complement: 50

Equipped for minelaying; two rails; about eight mines. Four were transferred from the USSR in 1958. *Albania sent two for A/S updating in 1960 and two others in 1961.*

Radar: Surface search: Ball Gun.
Navigation: Neptun.
IFF: High Pole.



"KRONSHTADT" Class

32 Ex-CHINESE "HUCHUAN" CLASS (FAST ATTACK HYDROFOIL—TORPEDO)

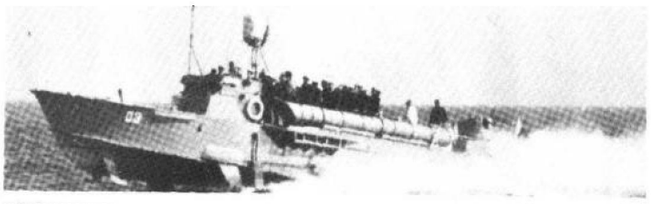
Displacement, tons: 39 standard; 45 full load
Dimensions, feet (metres): *71·5 × 16·6 × 3·3 (hullborne) (21·8 × 5 × 1)*
Guns: 4—14·5 mm MGs
Torpedo tubes: 2—21 in *(533 mm)*
Main engines: 3 M50 diesels; 3 shafts; 3 600 hp = 55 knots (calm and foilborne)
Range, miles: 500 (cruising)

Built in Shanghai and transferred as follows; six in 1968, fifteen in 1969, two in 1970, seven in 1971, two in June 1974.

Construction: Have foils forward while the stern planes on the surface.

Pennant numbers: 200 and 500 series.

Radar: Skin Head.



"HUCHUAN" Class *1972*

6 Ex-CHINESE "SHANGHAI II" CLASS (FAST ATTACK CRAFT—GUN)

541-546

Displacement, tons: 120 standard; 155 full load
Dimensions, feet (metres): 128 × 18 × 5·6 *(39 × 5·5 × 1·7)*
Guns: 4—37 mm/L63 (2 twin); 4—25 mm/L80 (2 twin)
A/S weapons: *8 DCs*
Mines: Minerails can be fitted; probably only 10 mines
Main engines: 4 diesels; 4 800 bhp = 30 knots
Range, miles: 800 at 17 knots
Complement: 25

Four transferred in mid-1974 and two in 1975.

Radar: Skin Head.

8 Ex-SOVIET "P 4" CLASS (FAST ATTACK CRAFT—TORPEDO)

These were transferred in the mid-1950s. While there is no evidence of their deletion there is, equally, no evidence for their continuing existence.

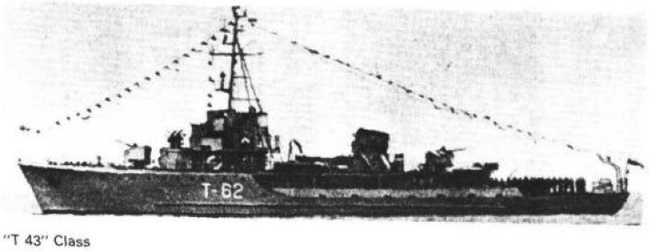
MINE WARFARE FORCES

2 Ex-SOVIET "T 43" CLASS (MINESWEEPERS—OCEAN)

151 152

Displacement, tons: 500 standard; 580 full load
Dimensions, feet (metres): 190·2 × 27·6 × 6·9 *(58 × 8·4 × 2·1)*
Guns: 2—37 mm (twin); 8—12·7 mm MGs
A/S weapons: 2 DCTs
Mines: 16
Main engines: *2 Type 9D diesels*; 2 shafts; 2 200 bhp = 15 knots
Range, miles: 3 000 at 10 knots
Complement: 65

Transferred in August 1960. Number 152 believed to be in reserve.



"T 43" Class

6 Ex-SOVIET "T 301" CLASS (MINESWEEPERS—INSHORE)

153-157 +1

Displacement, tons: 146 standard; 160 full load
Dimensions, feet (metres): 124·7 × 16·7 × 5·2 *(38 × 5·1 × 1·6)*
Guns: 2—37 mm; 4—12·7 mm (2 twin)
Main engines: 3 diesels; 3 shafts; 1 440 bhp = 9 knots
Range, miles: 2 200 at 9 knots
Complement: 25

Transferred from the USSR—two in 1957, two in 1959 and two in 1960.
Two marginally operational since 1979.

9 Ex-SOVIET "PO 2" CLASS (MSB)

VROJTUESI +8

Displacement, tons: 50 standard; 56 full load
Dimensions, feet (metres): 70·6 × 12·5 × 3·3 *(21·6 × 3·8 × 1)*
Gun: 1—12·7 mm MG
Main engine: Diesel; 1 shaft; 300 hp = 12 knots

The "PO 2" class, though primarily minesweeping boats, are also general utility craft. They were transferred as follows: three in 1957, three in 1958-59, five in 1960.

There are also reports of possibly three ex-Italian "MS 501" class.

TANKERS

2 Ex-SOVIET "KHOBI" CLASS (PETROL TANKERS)

PATOS **SEMANI**

Displacement, tons: 800 light; 1 750 full load
Measurement, tons: 1 600 deadweight
Dimensions, feet (metres): 220·1 × 32·8 × 12·5 *(67·1 × 10 × 3·8)*
Main engines: 2 diesels; 1 600 bhp = 12 knots
Complement: 29

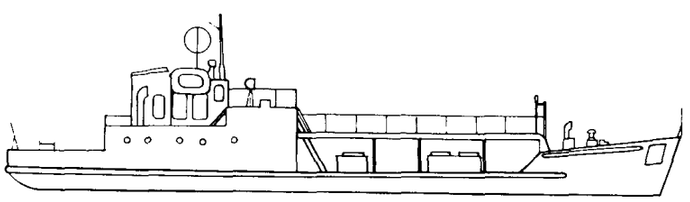
Launched in 1956. Transferred from the USSR in September 1958 and February 1959. *Semani* may be ex-Soviet M/V *Linda*.

Radar: Neptun.

1 Ex-SOVIET "TOPLIVO 1" CLASS (YARD TANKER)

Displacement, tons: 425
Dimensions, feet (metres): 115 × 22 × 9·6 *(34·5 × 6·5 × 3)*
Main engine: 1 diesel; 1 shaft = 10 knots
Range, miles: 400 at 7 knots
Complement: 16

Transferred from the USSR in March 1960. Similar to "Khobi" class in appearance though smaller. Oil fuel capacity about 200 tons.



"TOPLIVO 1" Class

1 Ex-SOVIET "TOPLIVO 3" CLASS (YARD TANKER)

TOMB

Displacement, tons: 425

Transferred from the USSR in 1960. Generally similar to "Toplivo 1" class.

TUGS

2 Ex-SOVIET "TUGUR" CLASS

MUJOULQINAKU +1

Two other small tugs are employed in local duties or harbour service.

AUXILIARIES

2 Ex-SOVIET "SHALANDA I" CLASS

Freighters transferred in early 1960s. One used as AKL and one as YF.

1 Ex-SOVIET "SEKSTAN" CLASS (DEGAUSSING SHIP)

354

Displacement, tons: 280 standard; 500 full load
Dimensions, feet (metres): 133·8 × 30·5 × 14·1 *(40·8 × 9·3 × 4·3)*
Main engine: 1 diesel; 400 bhp = 10 knots
Complement: 24

Built in Finland in 1956. Transferred from the USSR in 1960.

1 Ex-SOVIET "POLUCHAT I" CLASS

SKENDERBEU A 663

Displacement, tons: 70 standard; 90 full load
Dimensions, feet (metres): 97·1 × 19 × 4·8 *(29·6 × 5·8 × 1·5)*
Guns: 2—14·5 mm
Main engines: 2 M50 diesels; 2 shafts; 2 400 bhp = 20 knots
Range, miles: 460 at 17 knots; 1 500 at 10 knots
Complement: 15

Probably used for torpedo recovery. Transferred in 1958.

1 Ex-SOVIET "NYRYAT 1" CLASS (DIVING TENDER)

SQIPETARI

Displacement, tons: 145
Dimensions, feet (metres): 93 × 18 × 5·5 *(28·4 × 5·5 × 1·7)*
Main engine: Diesel; 1 shaft; 450 hp = 12·5 knots
Range, miles: 1 600 at 10 knots
Complement: 15

Built about 1955.

4 Ex-SOVIET HARBOUR LAUNCHES

1 Ex-SOVIET "DUNA" CLASS

Floating power barge.

Note: There are reported to be a dozen or so harbour and port tenders including a water carrier and a barrack ship. The "Atrek" class submarine tender transferred from the USSR in 1961 as a depot ship was converted into a merchant ship. With large lakes on both the Yugoslav and Greek borders a number of small patrol craft is stationed on these lakes.

ALGERIA

Ministerial

Minister of Defence:
Colonel Chadli Bendjedid (President)
Vice Minister of Defence:
Colonel Abdallah Belhoucher
Secretary General of the Ministry of Defence:
Colonel Moustapha Benloucif

Senior Officer

Commander of the Navy:
Commandant Rachid Benyelles

Diplomatic Representation

Defence Attaché in London:
Commandant Z. Benheddi

General

Up to 1980 Algeria had relied on Soviet support, which is still continuing. The Italian order with Baglietto was the first move towards diversification which could be important with its patrol and fast attack craft and its minesweepers reaching well into the second half of their lives. Orders from the UK for FAC and LSLs have coincided with further deliveries from the USSR.

Personnel

(a) 1985: Total 6 000
(b) Voluntary service

Bases

Algiers, Annaba, Mers-el-Kebir

Aircraft

12 Fokker F27 and 2 Beech Super King Air 200 are operated by the Algerian Air Force (AAF) in a maritime role.

Mercantile Marine

Lloyd's Register of Shipping:
147 vessels of 1 372 245 tons gross

Strength of the Fleet

Type	*Active*	*Building*
Frigates	3	—
Corvettes	4	1
Fast Attack Craft (Missile)	11	—
Fast Attack Craft (Gun)	4	2
Fast Attack Craft (Torpedo)	4	—
Large Patrol Craft	6	—
Minesweepers—Ocean	2	—
Coastal Patrol Craft	1	—
LSLs	2	—
LCT	1	—
Miscellaneous	20	—
Coast Guard	18	—

DELETIONS

1981 "Osa I" No 643

1984 4 "P 6" class

SUBMARINES

Two Soviet "Romeo" class submarines have been transferred for a five year loan period. The first arrived on 31 January 1982 and the second on 23 February 1983. With the minimal size of Algerian ASW forces, two submarines would be more than enough for training purposes. It is therefore possible that these boats may be the training forerunners of an Algerian naval submarine force.

FRIGATES

3 SOVIET "KONI" CLASS

MURAT REIS 901 **RAIS KELLICH** 902 + 1

Displacement, tons: 1 700 standard; 1 900 full load
Dimensions, feet (metres): 311·6 × 42 × 13·7 *(95 × 12·8 × 4·2)*
Missiles: SAM; 2—SA-N-4 (twin launcher)
Guns: 4—3 in *(76 mm)*/L59 (2 twin); 4—30 mm/L65 (2 twin)
A/S weapons: 2—12-barrelled RBU 6000 (fwd)
Main engines: CODAG; 1 gas turbine (centre shaft); 18 000 shp; 2 diesels (outer shafts); 12 000 shp
Speed, knots: 27 (gas); 22 (diesel)
Range, miles: 2 000 at 14 knots
Complement: 130

Murat Reis delivered from Black Sea in December 1980. *Rais Kellich* transferred 25 April 1982, and the third arrived in October 1984.
Murat Reis and *Rais Kellich* are the fifth and seventh ships of the "Koni" class, others of which have been transferred to Cuba, East Germany and Yugoslavia. Minor modifications have taken place to all ships after the first four of this class.

Radar: Search: Strut Curve.
Fire control: Hawk Screech; Drum Tilt; Pop Group.
Navigation: Don 2.
IFF: High Pole; Square Head.

Sonar: Hull-mounted.



RAIS KELLICH *5/1984, G. Gyssels*

CORVETTES

4 SOVIET "NANUCHKA II" CLASS (MISSILE CORVETTES)

RAS HAMIDOU 801 **SALAH REIS** 802 **RAS ALI** 803 — 804

Displacement, tons: 770 full load
Dimensions, feet (metres): 194·5 × 41·3 × 7·9 *(59·3 × 12·6 × 2·4)*
Missiles: SSM; 4—SS-N-2B;
SAM; 2—SA-N-4 (twin)
Guns: 2—57 mm/L70 (twin)
Main engines: 3 M507 diesels; 3 shafts; 24 000 shp
Speed, knots: 32
Range, miles: 4 500 at 15 knots
Complement: 70

Delivered 4 July 1980, 9 February 1981, 8 May 1982 and January 1983 from Baltic. New construction. However, the unsatisfactory performance of the Soviet diesels has resulted in plans to replace these with MTU diesels.

Radar: Search: Square Tie (Radome).
Fire control: Pop Group; Muff Cob.
Navigation: Don 2.
IFF: Square Head; High Pole.
ECM: One Bell Tap.



RAS ALI *1982, Ralf Bendfeldt*

0 + 1 BULGARIAN TYPE

Length, feet (metres): 164 *(50)*
Guns: 1—76 mm; 2—40 mm (twin)
Main engines: 3 20-cyl MTU diesels; 3 shafts

Ordered July 1983 from Dmitrov S.Y. (Varna).

LIGHT FORCES

Note: Unconfirmed reports that 6 "Komar" class (671-6) and six "SO 1" class are also still in service.

9 Ex-SOVIET "OSA II" and 2 "OSA I" CLASS
(FAST ATTACK CRAFT—MISSILE)

"Osa II"—644 651, 974
"Osa I"—641 642

Displacement, tons: 165 standard; 210 full load
Dimensions, feet (metres): 127·9 × 26·6 × 5·9 *(39 × 8·1 × 1·8)*
Missiles: SSM; 4 (single launchers)
Guns: 4—30 mm (2 twin)
Main engines: 3 MTU diesels = 38 knots (see note)
Range, miles: 800 at 30 knots
Complement: 30

One "Osa I" was delivered by the USSR on 7 October 1967. Two others transferred later in same year. "Osa II" transferred 1976-77 (4), fifth in September 1978, sixth in December 1978, next pair in 1979 and one from the Black Sea on 7 December 1981. "Osa II" no 643 lost by explosion in 1981.
Re-engined with MTU diesels—completion 1982. Re-arming taking place.



"OSA I" Class

4 + 2 BROOKE MARINE TYPE "KEBIR" CLASS
(FAST ATTACK CRAFT—GUN)

EL YADEKH 341 **EL MOURAKEB** 342 **343** **344** **345** **346**

Displacement, tonnes: 166 standard; 200 full load
Dimensions, feet (metres): 123 × 22·6 × 5·6 *(37·5 × 6·9 × 1·7)*
Guns: 1—76 mm OTO Melara Compact; 1—20 mm
Main engines: 2 MTU 12V 538 TB92 diesels; 2 shafts; 6 000 hp = 27 knots; 29 knots burst
Range, miles: 3 300 at 12 knots; 2 600 at 15 knots
Complement: 27 (3 officers, 24 ratings)

Design and first pair ordered from Brooke Marine in June 1981. First left for Algeria without armament in September 1982, second arrived Algiers 12 June 1983. Two more assembled at Mers-el-Kebir and two more building there.



EL MOURAKEB *4/1983*

1 SOVIET "ZHUK" CLASS (COASTAL PATROL CRAFT)

Displacement, tons: 50 full load
Dimensions, feet (metres): 75·4 × 17 × 6·2 *(23 × 5·2 × 1·9)*
Guns: 4—14·5 mm (2 twin)
Main engines: 2 M50 diesels; 2 shafts; 2 400 hp = 30 knots
Complement: 17

Arrived from Black Sea 19 May 1981.



"ZHUK" Class *1979*

AMPHIBIOUS FORCES

2 LANDING SHIPS (LOGISTIC)

KALAAT BENI HAMMAD 472
KALAAT BENI RACHED 473

Displacement, tonnes: 2 450 full load
Dimensions, feet (metres): 305 × 50·9 × 8·1 *(93 × 15·5 × 2·5)*
Guns: 2—40 mm (twin) (Breda Bofors L70)
Main engines: 2 MTU 16V 11 63 TB82 diesels; 7 880 bhp = 15 knots
Range, miles: 3 000 at 12 knots
Complement: 81 + 240 troops

First ordered from Brooke Marine, Lowestoft in June 1981, launched 18 May 1983 for delivery March 1984 and second ordered 18 October 1982 (hull sub-contracted to Vosper Thornycroft Ltd), laid down 20 December 1982, launched 15 May 1984, for delivery August 1984.
Have helicopter deck.

Capacity: 7 MBTs and 380 tons other cargo. Have bow and stern doors.

Fire control: CSEE Naja optronic.

Radar: Decca RM 1226.



KALAAT BENI RACHED *7/1984, Michael D. J. Lennon*

1 Ex-SOVIET "POLNOCHNY B" CLASS (LCT)

471

Displacement, tons: 850 full load
Dimensions, feet (metres): 249·3 × 27·9 × 5·8 *(76 × 8·5 × 1·8)*
Guns: 2—30 mm
Rocket launchers: 2—140 mm
Main engines: 2 diesels; 5 000 bhp = 19 knots
Complement: 40

Transferred in August 1976.

Radar: Gunnery: Drum Tilt.
Navigation: Don 2.
IFF: Square Head, High Pole A.



"POLNOCHNY" Class (Group B) *12/1975, MoD*

MINE WARFARE FORCES

2 Ex-SOVIET "T 43" CLASS (MINESWEEPERS—OCEAN)

M 521 **M 522**

Displacement, tons: 500 standard; 580 full load
Dimensions, feet (metres): 190·2 × 27·6 × 6·9 *(58 × 8·4 × 2·1)*
Guns: 2—45 mm (singles)
A/S weapons: 2 DCTs
Mines: Can carry 16
Main engines: 2 Type 9D diesels; 2 shafts; 2 200 bhp = 15 knots
Range, miles: 3 000 at 10 knots
Complement: 65

Transferred in 1968. Reported interest in replacement in mid-1980s.

MISCELLANEOUS

Note: Reported that an AGI of about 1 500 tons may be acquired in mid-1980s.

1 Ex-SOVIET "POLUCHAT I" CLASS

A 201

Operates as TRV. Of 29·6 metres and 100 tons full load. Speed 20 knots. Complement 15.

1 Ex-SOVIET "SEKSTAN" CLASS

Transferred in 1964. Was used as survey ship. Now probably a hulk.
Of 40·8 metres and 500 tons full load.

1 Ex-SOVIET "SEKSTAN" CLASS

VASISA A 640

Degaussing ship. Of 40·8 metres and 500 tons full load.

1 Ex-SOVIET "NYRYAT" CLASS

YAVDEZAN VP 650

Displacement, tons: 120
Dimensions, feet (metres): 93 × 18 × 5·5 *(28·4 × 5·5 × 1·7)*
Main engine: Diesel; 1 shaft; 450 hp = 12·5 knots
Range, miles: 1 600 at 10 knots
Complement: 15

Transferred in 1965. Used as diving tender. Built about 1955.

1 RESEARCH VESSEL

Measurement, tons: 180 gross
Main engine: 1 diesel

Launched by Damen SY, Netherlands on 18 May 1984.

1 RESEARCH VESSEL

BEN YAHIA

Measurement, tonnes: 84 deadweight; 205 gross
Dimensions, feet (metres): 84·3 × 24·6 × 10·2 *(25·7 × 7·5 × 3·1)*
Main engines: 2 General Motors diesels (16V 92N); 1 shaft; 600 bhp = 10·5 knots

Completed by Yokohama Yacht Co, Japan, 24 March 1983. Civilian manned.

1 SURVEY CRAFT

EL IDRISSI

Displacement, tons: 250

Built by Matsukara, Japan in 1980.

12 FISHERY PROTECTION CRAFT

JEBEL ANTAR **JEBEL HANDA** **+10**

Displacement, tons: 18

Six completed 1982 at Mers-el-Kebir with six more ordered in that year.

COAST GUARD

2 Ex-SOVIET "P 6" CLASS

Torpedo tubes removed.

6 BAGLIETTO "TYPE MANGUSTA"

OMBRINE GC 323 **REQUIN** GC 331 **MARSOUIN** GC 333
DORADE GC 324 **ESPADON** GC 332 **MURÈNE** GC 334

Displacement, tons: 91
Dimensions, feet (metres): 98·4 × 19 × 7·2 *(30 × 5·8 × 2·2)*
Guns: Can carry 1—40 mm Breda Bofors and 1—20 mm
Main engines: 3 MTU diesels; 3 shafts; 4 000 shp = 32·5 knots
Range, miles: 800 at 24 knots
Complement: 14

First delivered early 1977 by Baglietto, Varazze, Italy.

10 BAGLIETTO "TYPE 20 GC"

GC 100 **GC 113** **GC 221** **GC 235** **GC 237**
GC 112 **GC 114** **GC 222** **GC 236** **GC 325**

Displacement, tons: 44 full load
Dimensions, feet (metres): 66·9 × 17·1 × 5·5 *(20·4 × 5·2 × 1·7)*
Gun: 1—20 mm
Main engines: 2 CRM 18DS diesels; 2 shafts; 2 660 bhp = 36 knots
Range, miles: 445 at 20 knots
Complement: 11

The first pair delivered by Baglietto, Varazze in August 1976 and the remainder in pairs at two monthly intervals. Fitted with three radar sets and optical fire control.



Baglietto "20 GC" Craft *1978, Baglietto*

CUSTOMS SERVICE

0 + 3 "P 1200" CLASS

Ordered from Watercraft Ltd, Shoreham, England in late 1984. 12 metre craft with two MAN D2540 diesels with speed of 30+ knots, complement of four and armed with MGs. All to be delivered autumn 1985.

0 + 2 "P 802" CLASS

Ordered from Watercraft Ltd, Shoreham, England in late 1984. 8 metre craft with two Volvo AQAD 40 inboard/outboard diesels for speed of 30+ knots. To be delivered autumn 1985.

ANGOLA

Ministerial

Minister of Defence:
Pedro Maria Tonha

Headquarters' Appointments

Senior Commanders:
Alberto Vilela Canelas; Masobele Bianga

Senior Officer

Commander of the Navy:
Manuel Augusto Alfredo

General

A number of Portuguese ships was transferred at independence in 1975, and these have been reinforced by ex-Soviet craft and ships taken up from trade. Angolan names are not known—the details given are in all cases Portuguese. In the confused state of affairs existing in Angola it is impossible to assess the availability of the craft listed.
There is a critical shortage of trained personnel. There are minor repair facilities at Luanda and Lobito—maintenance depends largely on Soviet and Cuban technicians.

Personnel

(a) 1985: 1 250
(b) Voluntary service (?)

Training

A certain amount of training was carried out by the Portuguese before independence. At present some officers are trained in the USSR, a small Portuguese team remains, and a Nigerian team is co-operating with Cuban and Soviet advisers.

Ports and Bases

Luanda, Lobito, Moçamedes. (A number of other good harbours is available on the 1 000 mile coastline.) Naval HQ at Luanda on Ilha de Luanda is fortified.

Strength of the Fleet

Type	*Active*
Fast Attack Craft (Missile)	6
Fast Attack Craft (Torpedo)	5
Large Patrol Craft	4
Coastal Patrol Craft	9
LCTs	4
LCUs etc	5 + ?9
Auxiliaries	?8

Aircraft

One Fokker F27 acquired for maritime surveillance.

Mercantile Marine

Lloyd's Register of Shipping:
87 vessels of 97 283 tons gross

DELETIONS

1984 1 "Shanghai II" and 1 "Argos" classes

LIGHT FORCES

6 Ex-SOVIET "OSA II" CLASS (FAST ATTACK CRAFT—MISSILE)

Displacement, tons: 165 standard; 210 full load
Dimensions, feet (metres): 127·9 × 25·6 × 5·9 *(39 × 7·8 × 1·8)*
Missiles: SSM; 4—SS-N-2 (single launchers)
Guns: 4—30 mm/L65 (2 twin)
Main engines: 3 M504 diesels; 15 000 bhp = 40 knots
Fuel, tons: 40
Range, miles: 800 at 30 knots; 500 at 35 knots
Complement: 30

Transferred 29 September 1982 (first pair), 29 December 1982 (second pair), and 1 November 1983 (third pair).



"OSA II" Class — *4/1980, MOD*

5 Ex-SOVIET "SHERSHEN" CLASS (FAST ATTACK CRAFT—TORPEDO)

Displacement, tons: 145 standard; 175 full load
Dimensions, feet (metres): 118·1 × 25·3 × 4·9 *(36 × 7·7 × 1·5)*
Guns: 4—30 mm/L65 (2 twin)
Torpedo tubes: 4—21 in *(533 mm)* (single)
A/S weapons: 12 DCs
Main engines: 3 M503A diesels; 3 shafts; 12 000 bhp = 45-47 knots
Range, miles: 800 at 30 knots; 450 at 34 knots
Complement: 23

Built in late 1960s. First transferred December 1977, one more in December 1978, two in May 1981 and the fifth in early 1983.

Radar: Search: Pot Drum.
Fire control: Drum Tilt.
IFF: High Pole A and Square Head.



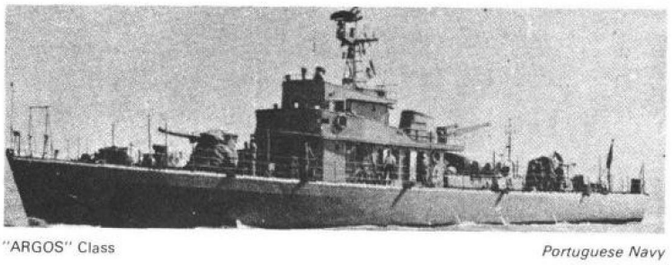
"SHERSHEN" Class — *1977*

4 Ex-PORTUGUESE "ARGOS" CLASS (LARGE PATROL CRAFT)

Name	*No.*	*Builders*	*Commissioned (Portugal)*
Ex-**ORION**	P 362	Estaleiros Navais de Viano do Castelo	1964
Ex-**ESCORPIAO**	P 375	Arsenal do Alfeite, Lisbon	1964
Ex-**PEGASO**	P 379	Estaleiros Navais de Viano do Castelo	1963
Ex-**CENTAURO**	P 1130	Arsenal do Alfeite, Lisbon	1965

Displacement, tons: 180 standard; 210 full load
Dimensions, feet (metres): 136·8 × 20·5 × 7 *(41·6 × 6·2 × 2·2)*
Guns: 2—40 mm
Main engines: 2 Maybach (MTU) diesels; 1 200 bhp = 17 knots
Oil fuel, tons: 16
Complement: 24 (2 officers, 22 men)

Argos and *Dragao* of same class transferred, reportedly, for spares.



"ARGOS" Class — *Portuguese Navy*

1 Ex-SOVIET "ZHUK" CLASS (COASTAL PATROL CRAFT)

Displacement, tons: 50 full load
Dimensions, feet (metres): 75·4 × 17 × 6·2 *(23 × 5·2 × 1·9)*
Guns: 2—14·5 mm (twin, aft)
Main engines: 2 M50 diesels; 2 shafts; 2 400 hp = 30 knots
Complement: 17

Transferred 23 January 1977.

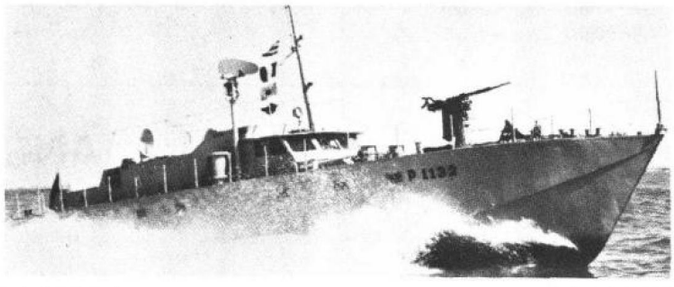


"ZHUK" Class — *1979*

2 Ex-PORTUGUESE "JUPITER" CLASS (COASTAL PATROL CRAFT)

Name	*No.*	*Builders*	*Commissioned (Portugal)*
Ex-**VENUS**	P 1133	Estaleiros Navais do Mondego	1965
Ex-**MARTE** (?)	P 1134	Estaleiros Navais do Mondego	1965

Displacement, tons: 32 standard; 43·5 full load
Dimensions, feet (metres): 69 × 16·5 × 4·3 *(21 × 5 × 1·3)*
Gun: 1—20 mm Oerlikon
Main engines: 2 Cummins diesels; 1 270 bhp = 20 knots
Complement: 8



"JUPITER" Class — *Portuguese Navy*

2 Ex-SOVIET "POLUCHAT I" CLASS (COASTAL PATROL CRAFT)

Displacement, tons: 70 standard; 100 full load
Dimensions, feet (metres): 97·1 × 19 × 4·8 *(29·6 × 5·8 × 1·5)*
Guns: 2—14·5 mm
Main engines: 2 diesels; 2 shafts; 1 700 hp = 20 knots
Range, miles: 1 500 at 10 knots
Complement: 15

Transferred December 1979.

Radar: One Spin Trough.

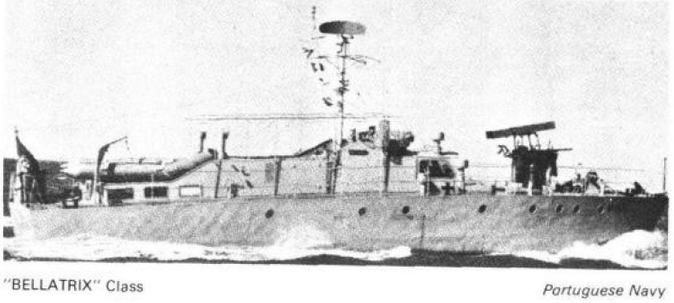


"POLUCHAT I" Class — *10/1975, MOD*

4 Ex-PORTUGUESE "BELLATRIX" CLASS (COASTAL PATROL CRAFT)

Name	*No.*	*Builders*	*Commissioned (Portugal)*
Ex-**FOMALHAUT**	P 367	Bayerische Schiffbaugesellschaft	1961
Ex-**POLLUX**	P 368	Bayerische Schiffbaugesellschaft	1961
Ex-**ALTAIR**	P 377	Bayerische Schiffbaugesellschaft	1962
Ex-**RIGEL**	P 378	Bayerische Schiffbaugesellschaft	1962

Displacement, tons: 23 standard; 27·6 full load
Dimensions, feet (metres): 68 × 16·2 × 4 *(20·7 × 5·1 × 1·2)*
Gun: 1—20 mm Oerlikon
Main engines: 2 Cummins diesels; 470 bhp = 15 knots
Complement: 7 (1 officer, 6 men)



"BELLATRIX" Class — *Portuguese Navy*

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