



# Albania

## FORCE DETAR

### Country overview

After being governed by a communist regime since 1946, democratic elections in the Republic of Albania took place in 1991. Situated in the western part of the Balkan Peninsula, the country has an area of 11,100 square miles and is bordered to the north by Montenegro and Kosovo, to the east by North Macedonia and to the south by Greece. There is a coastline of 195 n miles with the Adriatic Sea on which Durrës and Vlorë are the principal ports. The capital and largest city is Tirana.

Territorial waters (12 n miles) are claimed but an exclusive economic zone (EEZ) has not been claimed. The Navy and Coast Guard operate as a combined force and most vessels are in Coast Guard livery.

### Personnel

2020: 1,900

### Bases

HQ: Durrës  
Flotilla HQ: Pasha Liman  
Bases: Shengjin, Sarandë, Sazan Island, Porto Palermo, Vlorë (Pasha Liman), Durrës (Kepi Palit).

### Headquarters appointments

*Commander of the Navy:*  
Rear Admiral Adnan Agastra

## PATROL FORCES

### 4 DAMEN STAN PATROL 4207 CLASS (PB)

Name	No	Launched	Commissioned
ILIRIA	P 131	6 May 2008	8 Sep 2008
ORIKU	P 132	13 Sep 2011	17 Feb 2012
LISUS	P 133	3 Dec 2012	2013
BUTRINTI	P 134	8 Apr 2014	2014

Displacement, tonnes: 205 standard

Dimensions, metres (feet): 42.8 x 7.11 x 2.52 (140.4 x 23.3 x 8.3)

Speed, knots: 26

Range, n miles: 1,800 at 12 kt

Complement: 18

Machinery: 2 Caterpillar 3516B DI-TA; 5,600 hp (4.17 MW); 2 shafts; cp props; bow thruster

Guns: 1 Nexter Narwhal with M621 20 mm. 2—7.62 mm MGs.

Radars: Surface search/navigation: 1 JRC JMA5310-6; I-band. 1 JRC JMA5310-12; I-band.

**Comment:** Contract signed with Damen Shipyards, Gorinchem on 13 November 2007 for the acquisition of four Stan Patrol 4207 offshore patrol vessels. The first vessel was built in Holland, while the remaining three were built at Pashaliman Shipyard near Vlorë. The contract also includes refurbishment of the shipyard, training, and maintenance services. The ships carry coast guard markings. Class has been deployed for NATO maritime operations, commencing with Oriku in November 2016. These operations concluded in December 2019, with Lisus and Butrinti also having taken part.



ORIKU

7/2019, C D Yayılı / 1748547

### 3 PB MK III CLASS (PB)

BORA P 116 (ex-R 216) SHIROKA P 117 (ex-R 215) BRIZA P 118 (ex-R 118)

Displacement, tonnes: 37.4 full load

Dimensions, metres (feet): 19.8 x 5.5 x 1.8 (65.0 x 18.0 x 5.9)

Speed, knots: 25

Range, n miles: 450 at 21 kt

Complement: 7

Machinery: 3 Detroit Diesel 8V-71TI diesels; 1,800 hp (1.3 MW) sustained; 3 shafts

Guns: 2—12.7 mm MGs.

Radars: Surface search: Raymarine; I-band.

**Comment:** Built in the United States in 1974 and transferred to Albania on 27 February 1999. Overhauled in 2015.



SHIROKA

12/2015, Hartmut Ehlers / 1649621

### 2 COASTAL PATROL CRAFT (PB)

SHQYPNIA P 110 (ex-R 117)

SKENDERBE P 112 (ex-R 217)

Displacement, tonnes: 18 full load

Dimensions, metres (feet): 13.9 x 4 x 0.9 (45.6 x 13.1 x 3.0)

Speed, knots: 34

Range, n miles: 200 at 30 kt

Complement: 5

Machinery: 2 MTU 8V 396 diesels; 1,300 hp (942 kW); 2 Hamilton waterjets

Guns: 1—12.7 mm MG.

Radars: Surface search: Raymarine; I-band.

**Comment:** Built in the United States in 1995 and transferred to Albania on 27 February 1999. Overhauled at Pashaliman Naval Dockyard in 2015.



P 110

12/2015, Hartmut Ehlers / 1649622

### 5 ARCHANGEL CLASS (RESPONSE BOATS) (PBF)

DRINI P 01 MATI P 02 SHKUMBINI P 03 SEMANI P 04 VJOSA P 05

Displacement, tonnes: 14.2 full load

Dimensions, metres (feet): 13.4 x 4.3 x 0.76 (44.0 x 14.1 x 2.5)

Speed, knots: 36

Range, n miles: 250 at 25 kt

Complement: 6

Machinery: 2 Yanmar 6CXM diesels; 1,000 hp (746 kW); 2 Hamilton 322 waterjets

Guns: 2—7.62 mm MGs.

Radars: Navigation: Raytheon; I-band.

**Comment:** High-speed inshore patrol craft of aluminium construction and foam collar built by SAFE Boats International, Port Orchard, Washington. SAFE 44 Full Cabin Inboard design. Three donated by the US government in August 2010 and a further two in March 2013. P 01, P 03, and P 05 overhauled at Pashaliman Naval Dockyard in 2015 with US funding.



P 04

12/2015, Hartmut Ehlers / 1649623

### 1 TYPE 246 CLASS (INSHORE PATROL CRAFT) (PBR)

P 121 (ex-CP 249)

Displacement, tonnes: 22 full load

Dimensions, metres (feet): 15.0 x 4.85 x 1.65 (49.2 x 15.9 x 5.4)

Speed, knots: 27

Complement: 7

Machinery: 2 Isotta Fraschini ID35 SS 6V diesels; 1,350 hp(m) (1.0 MW); 2 shafts

Radars: Navigation: I-band.

**Comment:** Built in Italy in 1980. Transferred from the Italian Coast Guard in 2008. Operational status uncertain.

**2 TYPE 227 INSHORE PATROL CRAFT (PBR)**

P 122 (ex-R 225, ex-CP 234)

P 120 (ex-R 226, ex-CP 236)

Displacement, tonnes: 16 full load

Dimensions, metres (feet):  $13.4 \times 4.8 \times 1.3$  ( $44.0 \times 15.7 \times 4.3$ )

Speed, knots: 24. Range, n miles: 400 at 24 kt

Complement: 5

Machinery: 2 AIFO 8281-SRM diesels; 1,770 hp (1.32 MW); 2 shafts

Radars: Surface search: I-band.

**Comment:** Wooden construction. Built in Italy 1966–69. Transferred from Italian Coast Guard to Albanian Coast Guard in 2002. Operational status uncertain.



TYPE 227 CLASS

7/2005, Massimo Annati / 1129988

**2 TYPE 2010 INSHORE PATROL CRAFT (PBR)**

P 125 (ex-R 126, ex-CP 2020)

P 129 (ex-R 228, ex-CP 2023)

Displacement, tonnes: 15 full load

Dimensions, metres (feet):  $12.5 \times 3.6 \times 1.1$  ( $41.0 \times 11.8 \times 3.6$ )

Speed, knots: 24. Range, n miles: 533 at 20 kt

Complement: 5

Machinery: 2 AIFO diesels; 1,072 hp (800 kW); 2 shafts

Radars: Navigation: I-band.

**Comment:** Former harbour launches built in Italy in the 1970s. GRP construction. One transferred from Italian Coast Guard to Albanian Coast Guard in 2002 and a further six in 2004. Operational status doubtful.



P 129

12/2015, Hartmut Ehlers / 1649620

**AUXILIARIES****1 SERVICE CRAFT (YAG)**

DELFINI A 81 (ex-R 122)

Displacement, tonnes: 20 full load

Dimensions, metres (feet):  $13.4 \times 3.85 \times 1.2$  ( $44.0 \times 12.6 \times 3.9$ )

Speed, knots: 13. Range, n miles: 200 at 13 kt

Complement: 4

Machinery: 2 Iveco M653 diesels; 300 hp (224 kW); 2 shafts

Radars: Navigation: Raytheon; I-band.

**Comment:** Built in US in 1965. Transferred from Italian Coast Guard to Albanian Coast Guard in 2002. Former patrol craft used as a buoy tender and for other miscellaneous tasks.



DELFINI

12/2015, Hartmut Ehlers / 1649623

**2 ANTI-POLLUTION CRAFT (YAG)**

RODONI Y 31

KARABURUNI Y 32

Displacement, tonnes: 50 full load

Dimensions, metres (feet):  $14.5 \times 4.0 \times 1.3$  ( $47.6 \times 13.1 \times 4.3$ )

Speed, knots: 10. Range, n miles: 420 at 10 kt

Complement: 5

Machinery: 2 Iveco diesels; 500 hp(m) (373 kW); 2 shafts

Radars: Navigation: Furuno; I-band.

**Comment:** Built in Genoa, Italy, in 2009 and transferred to Albania in 2010. Rodoni underwent overhaul at Pashaliman Shipyard in 2014–15.



RODONI

12/2015, Hartmut Ehlers / 1649624

**SURVEY AND RESEARCH SHIPS**

**Notes:** A survey launch, Shqiponja (A 82), was received from Norway in March 2017.

**POLICE**

**Notes:** One 15 m aluminium hull and four 10 m glass-fibre construction patrol boats built by Izmir Shipyard were handed over in July 2022 under the EU Support For the Effective Management of Green and Blue Borders in Albania (EU4SAFEALB) project. The all white craft have rubber rubbing strakes, feature diagonal red and blue stripes near the bow, and carry 'Police Kufitare' markings.

# Algeria

## MARINE DE LA REPUBLIQUE ALGERIENNE

**Country overview**

Formerly a French colony, the People's Democratic Republic of Algeria gained independence in 1962. Situated in north Africa, it has an area of 919,595 square miles and is bordered to the east by Tunisia and Libya, to the south by Niger, Mali, and Mauritania and to the west by Morocco. It has a 540 n mile coastline with the Mediterranean. The capital, largest city, and principal port is Algiers. Territorial seas (12 n miles), Fishery zones (32/52 n miles), and an exclusive economic zone (200 n miles) have been claimed.

**Headquarters appointments**

*Commander of the Navy (interim):  
Major General Benmeddah Mahfoud*

**Personnel**

- (a) 2019: 6,000 (including 600 naval infantry); 500 (coast guard)
- (b) Voluntary service

**Bases**

Algiers (1st Region), Mers-el-Kebir (2nd Region), Jijel (3rd Region), Annaba (CG HQ)

**Coast defence**

Four batteries of truck-mounted 4K-51 Rubezh (SS-C-3 Styx) twin launchers. Permanent sites at Algiers, Mers-el-Kebir, and Jijel linked by radar.

**Strength of the Fleet**

Type	Active	Building (Projected)
Submarines	6	—
Frigates	8	(2)
Corvettes	7	1
Patrol craft	19	—
Fast attack craft (missile)	3	—
LHD	1	(1)
LSTHs	2	—
Minehunter/sweeper (coastal)	3	—
Survey ships	2	—
Tankers	—	(2)

## PENNANT LIST

Submarines			Patrol forces			Survey ships			
012	Rais Hadj Mubarek	911	El Moudamir	358	El Hamis				
013	El Hadj Slimane	920	Adhafar	359	—				
021	Djurjura	921	El Fatih	360	El Montassir	204	El Idrissi		
022	Akram Pacha	922	Ezzadjer	361	El Thabit				
031	Ouarsenis			362	El Sader				
032	Hoggar								
Corvettes			Amphibious forces			Training ships			
Frigates	—	Djebel Chenoua	346	El Djari	472	Kalaat Beni Hammad	937	La Soummam	
901	Mourad Rais	801	El Chihab	347	El Saher	473	Kalaat Beni Rached	938	El Mellah
902	Rais Kellich	802	Al Kirch	348	El Moukadem	474	Kalaat Beni-Abbes		
903	Rais Korsou	803	Rais Hamidou	349	El Tinai				
910	Erradii	807	Rais Rais	350	El Kanass				
			354	El Mahir	501	El Kasseh 1	261	El Mourafik	
			355	El Wafi	502	El Kasseh 2	701	El Moundjid	
			356	El Azoum	503	El Kasseh 3	702	El Mous'if	
			357	El Djasur			703	El Moussanid	

## SUBMARINES

## 6 KILO (PROJECT 877EKM/636M) CLASS (SSK)

Name	No
RAIS HADJ MUBAREK (ex-B 861)	012
EL HADJ SLIMANE (ex-B 386)	013
DJURDJURA (ex-Messali el Hadj)	021
AKRAM PACHA	022
OUARSENIS	031
HOGGAR	032

**Displacement, tonnes:** 2,325 surfaced; 3,076 dived  
**Dimensions, metres (feet):** 72.6 (012–013), 73.8 (021–022, 031–032) × 9.9 × 6.6 (238.2, 242.1 × 32.5 × 21.7)  
**Speed, knots:** 17 dived; 10 surfaced; 9 snorting  
**Range, n miles:** 400 at 3 kt dived; 6,000 at 7 kt snorting  
**Complement:** 52 (13 officers)

**Machinery:** Diesel-electric; 2 diesels; 3,650 hp(m) (2.68 MW); 2 generators; 1 motor; 5,900 hp(m) (4.34 MW); 1 shaft; 2 auxiliary MT-168 motors; 204 hp(m) (150 kW); 1 economic speed motor; 130 hp(m) (95 kW)

**Missiles:** SLCM: Novator 3M-54E (SS-N-27A Sizzler) anti-ship; inertial guidance and active radar terminal homing; 220 km (118.8 n miles) at Mach 0.8 (cruise) and Mach 2.9 (attack); warhead 200 kg; sea-skimmer (021, 022, 031, 032). Novator 3M-14E (SS-N-30B); land-attack; inertial/GLONASS/terrain reference guidance and active radar terminal homing to 300 km (162 n miles) at Mach 0.7; warhead 450 kg (031–032).

**Torpedoes:** 6–533 mm tubes. Combination of Russian TEST-71ME; anti-submarine active/passive homing to 23.2 km (12.5 n miles) at 40 kt; thermal; warhead 205 kg; and Type 53–65; anti-surface ship; passive wake homing to 19 km (10.3 n miles) at 45 kt; thermal; warhead 300 kg. Total of 18 weapons.

**Mines:** 24 in lieu of torpedoes.

**Electronic countermeasures:** ESM: Brick Pulp; radar warning. **Radar:** Surface search: MRP-25E (Snoop Tray); I-band.

**Sonars:** MGK-400 (Shark Teeth/Shark Fin); hull-mounted; passive/active search and attack; medium frequency. MG-519 Mouse Roar; active attack; high frequency.

**Weapon control systems:** Uzel MVU-110EM or Murena MVU-119EM fire-control system.

**Programmes:** The Project 877EKM were new construction hulls, which replaced the decommissioned Romeo class. A contract for the construction of two missile-armed Project 636 boats was signed with Admiralty Shipyards in mid-2006. The first was delivered to Mers-el-Kebir in late 2010 and the second in late 2011. The order for two further Type 636 submarines from Admiralty Shipyards was confirmed in June 2014. Both boats were launched in 2017 and were commissioned in Algeria in January 2019.

**Modernisation:** Following refits in 1993–96, both Project 877 submarines underwent further two-year refits at Admiralty Shipyards. Work on the first boat, which is reported to have

Builders
Nizhny Novgorod
Nizhny Novgorod
Admiralty Yard, St Petersburg

Laid down
14 Feb 1985
26 Jul 1986
26 Jul 1987
29 Apr 2007
27 Dec 2007
2015
2016

Launched
26 Jul 1986
10 Jul 1987
20 Nov 2008
9 Apr 2009
14 Mar 2017
29 Jun 2017

Commissioned
29 Nov 1986
5 Nov 1987
28 Aug 2009
29 Oct 2009
9 Jan 2019



AKRAM PACHA

7/2021, Michael Nitz / 2011342

included upgrade of the sonar system, began in November 2005 and completed in 2008. Refit of the second boat completed in 2012. The first Project 636 boat (021) returned from a refit in Russia in April 2021, and the second (022) arrived for refit in July 2021.

**Structure:** Diving depth 240 m (790 ft). 9,700 kWh batteries. Pressure hull 51.8 m (169.9 ft). May be fitted with Strela-2/3 (SA-N-5/8) portable SAM launcher.

**Operational:** Based at Mers El Kebir. 3M-54E (SS-N-27A) test fired from 031 and 032 on 29 September 2019.



AKRAM PACHA

7/2021, Michael Nitz / 2011342

## FRIGATES

## 2 + (2) ERRADII (MEKO A-200 AN) CLASS (FFGHM)

Name	No	Builders	Laid down	Launched	Commissioned
ERRADII	910	ADM, Kiel	2012	5 Dec 2014	21 Apr 2016
EL MOUDAMIR	911	ADM, Kiel	2013	12 Dec 2015	24 May 2017

**Displacement, tonnes:** 3,700 full load (est)  
**Dimensions, metres (feet):** 121.0 × 16.4 × 4.4  
 (397.0 × 53.8 × 14.4)

**Speed, knots:** 28. **Range, n miles:** 7,700 at 15 kt  
**Complement:** 110

**Machinery:** CODAG; 1 GE LM2500 gas turbine; 2 MTU 16V 1163 TB93 diesels; 7,940 hp (5.92 MW); 2 shafts; 1 centreline Wärtsilä waterjet

**Missiles:** SSM: 16 Saab RBS15 Mk 3 (4 quad) ①; inertial/GPS guidance and active radar terminal homing to 200+ km (108+ n miles) at Mach 0.9; warhead 200 kg; sea-skimmer-terminal manoeuvres.

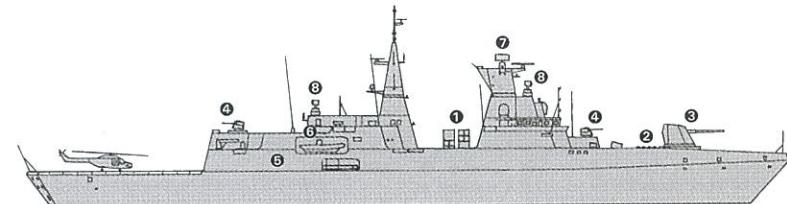
SAM: Denel Dynamics Umkhonto-IR Block 2; 32-cell VLS ②; inertial guidance with mid-course update and IR terminal homing to 15 km (8.1 n miles) at Mach 2.4; warhead 23 kg.

**Guns:** 1 Oto Melara 127 mm/64LW; 35 rds/min to 23 km (12.4 n miles); weight of shell 32 kg ③. 2 MSI-Defence 30 mm ④.

**Torpedoes:** 4–324 mm (2 twin) tubes ⑤; Eurotorp MU90.

**Physical countermeasures:** 4 Rheinmetall MASS decoy launchers ⑥. 2 WASS Morpheus ASW decoy launchers.

**Electronic countermeasures:** ESM/ECM: Indra Rigel EA/ES suite.



(Scale 1 : 1,200), Ian Sturton / 1649784

## ERRADII

**Radar:** Air/surface search: Saab Sea Giraffe AMB ⑦; G-band. Fire control: 2 Saab CEROS 200 ⑧; I/J/K-band.

Surface search/navigation: 3 Sperry Bridgemaster; E/F/I-bands.

**Sonars:** Thales Kingklip/UMS 4132; hull-mounted; active/pассив; medium frequency.

**Combat data systems:** Atlas Elektronik/Saab CMS.

**Electro-optic systems:** Saab CEROS 200 optronic director.

Saab EOS 500 optronic director.

**Helicopters:** 1 Super Lynx.

**Programmes:** A contract for the procurement of two MEKO A-200 frigates was placed with ThyssenKrupp Marine Systems on 26 March 2012. Construction was conducted at ADM Kiel. An option for two further ships was not taken up, however interest in additional ships remains.

**Structure:** The ships are similar to the South African Valour class.

**Operational:** First RBS15 firing took place in August 2017. Testing of Umkhonto took place in 2019.



EL MOUDAMIR

10/2018, Michael Nitz / 1292186



EL MOUDAMIR

11/2018, Michael Nitz / 1761500

## 3 ADHAFER (C 28A/MODIFIED TYPE 053H3) CLASS (FRIGATES) (FFGHM)

Name	No	Builders	Laid down	Launched	Commissioned
ADHAFER	920	Hudong-Zhonghua, Shanghai	7 Nov 2013	15 Aug 2014	Nov 2015
EL FATIH	921	Hudong-Zhonghua, Shanghai	2014	6 Feb 2015	10 Mar 2016
EZZADJER	922	Hudong-Zhonghua, Shanghai	Apr 2014	Aug 2015	12 Jul 2016

Displacement, tonnes: 2,880 standard

Dimensions, metres (feet): 120.0 × 14.4 × 3.87 (393.7 × 47.2 × 12.7)

Speed, knots: 28

Machinery: CODAD; 4 MTU 16V 1163 TB93 diesels; 32,196 hp (23.7 MW); 2 shafts

Missiles: SSM: 8 C-802 (CSS-N-8 Saccade) (2 quad) ①; inertial guidance and active radar terminal homing to 120 km (64.8 n miles) at Mach 0.9; warhead 165 kg; sea-skimmer.

SAM: 1 FM-90N/HQ-7A (CSA-N-4) octuple launcher ②; command line of sight guidance to 15 km (8.1 n miles) at Mach 2.4; altitude up to 6,000 m (19,685 ft); warhead 15 kg.

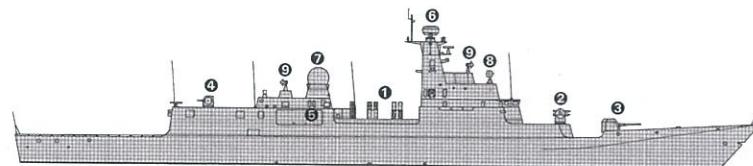
Guns: 1 H/PJ-26 76 mm/59 ③; 120 rds/min to 15 km (8.1 n miles); weight of shell 5.9 kg. 2 Type 730B 30 mm; 7 barrels per mounting ④.

Torpedoes: 6–324 mm (2 triple).

Physical countermeasures: Type 726-4 DLS; 4–12 barrelled trainable launchers ⑤; IR flares and chaff. Can fire anti-torpedo decoys and HE mortars.

Electronic countermeasures: ESM: RWD-8.

ECM: Type 981 (NJ81-3).



ADHAFER

(Scale 1 : 1,200), Ian Sturton / 1693810

**Comment:** Light frigates derived from a modified Type 053H3 design. Contract for the construction of three ships was signed with China Shipbuilding Trading Company in May 2012. Construction at Hudong-Zhonghua Shipyard started in 2013. This variant features waterline exhaust and a mix of Chinese and Western systems. The first of class arrived in Algeria in November 2015. The third ship was handed over on 12 July 2016.

Helicopters: 1 medium.



EZZADJER

10/2022, G&amp;M Gyssels / 2040666



ADHAFER

10/2015, Dzirhan Mahadzir / 1632004

## 3 MOURAD RAIS (KONI II) (PROJECT 1159T) CLASS (FFLM)

Name	No
MOURAD RAIS	901
RAIS KELLICH	902
RAIS KORSOU	903

**Displacement, tonnes:** 1,440 standard; 1,900 full load  
**Dimensions, metres (feet):** 96.4 × 12.6 × 3.5 (316.3 × 41.3 × 11.5)  
**Speed, knots:** 27; 22 diesel. **Range, n miles:** 1,800 at 14 kt  
**Complement:** 130

**Machinery:** CODAG; 1 Nikolayev M8B gas turbine (centre shaft); 18,000 hp(m) (13.25 MW) sustained; 2 Russki B-68 diesels; 15,820 hp(m) (11.63 MW) sustained; 3 shafts  
**Guns:** 4 AK-726 76 mm/59 (2 twin) ①; 90 rds/min to 16 km (8.6 n miles); weight of shell 5.9 kg. 4 AK-230 30 mm/64 (2 twin) ②; 1,000 rds/min to 6.5 km (3.5 n miles); weight of shell 0.35 kg.  
**Torpedoes:** 4–533 mm (2 twin) ③ (903).  
**A/S Mortars:** RPS Smerch-2 system; 2 RBU-6000 12-barrel launchers ④; RGB-60 rocket-propelled depth charges; range 300–6,000 m; depth 15–450 m, warhead 25 kg.

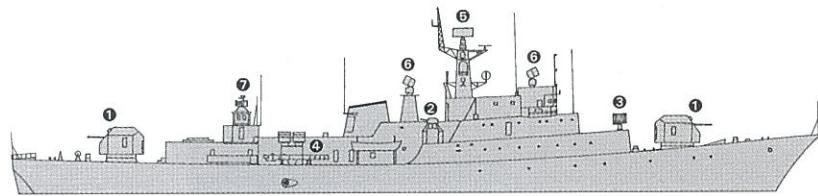
**Mines:** Rails for up to 22 mines.  
**Depth charges:** 2 racks.  
**Physical countermeasures:** Decoys: 2 PJ-46 decoy launchers.  
**Electronic countermeasures:** ESM: NRJ-6A.  
**Radar:** Air/surface search: Positiv-ME1.2 ⑤; I-band.  
**Navigation:** Don 2; I-band (901–902). To be announced (903).  
**Fire control:** MPZ-301 4R33 Baza (Pop Group) ⑥; F/H/I/J-band.  
**IFF:** High Pole B. 2 Square Head.  
**Sonars:** MG-322 (Hercules) hull-mounted; active search and attack; medium frequency.  
**Electro-optic systems:** 2 electro-optic systems ⑦.

**Programmes:** Light frigates with ASW focus built in the former USSR. Others of the class built for Cuba, Yugoslavia, East Germany, and Libya. Interest was shown in ex-GDR ships in 1991 but sale was rejected by the German government.

**Modernisation:** New generators fitted 1992–94. *Rais Korsou* in refit at Kronstadt from 1997 to November 2000. The refit included replacement of Strut Curve radar, removal of M-4 Osa-M (SA-N-4) surface-to-air missile (SAM), removal of Hawk screech fire-control radar, fitting of torpedo tubes, and a new electronic suite. Refit of *Mourad Rais* began in

Builders
Zelenodolsk Shipyard, Kazan
Zelenodolsk Shipyard, Kazan
Zelenodolsk Shipyard, Kazan

**Commissioned**  
 20 Dec 1980  
 24 Mar 1982  
 3 Jan 1985



RAIS KORSOU (before removal of Drum Tilt radar)

(Scale 1 : 900, Ian Sturton / 1366955)



RAIS KELLICH

5/2017, Diego Quevedo / 1707326

late 2007 and completed in 2011. *Rais Kellich* began refit in late 2008 and completed in 2012. Drum Tilt radar has been replaced by optronic director in these ships. RHIBs and new davits have been installed midships on all ships. A contract for the refit of *Rais Korsou* was let in 2012 and upgrade work was expected to be completed in 2016. However, a fire in

December 2015 delayed work, which was finally completed in 2017.

**Structure:** The deckhouse aft in Type II Konis houses air conditioning machinery.

**Operational:** All have been used for training cruises. All based at Mers El Kebir.

## CORVETTES

## 3 DJEBEL CHENOUA (C 58) (PROJECT 802) CLASS (FSG)

Name	No	Builders	Launched	Commissioned
DJEBEL CHENOUA	– (ex-351)	ECRN, Mers-el-Kebir	3 Feb 1985	Nov 1988
EL CHIHAB	– (ex-352)	ECRN, Mers-el-Kebir	Feb 1990	Jun 1995
AL KIRCH	– (ex-353)	ECRN, Mers-el-Kebir	Jul 2000	2002

**Displacement, tonnes:** 496 standard; 540 full load  
**Dimensions, metres (feet):** 58.4 × 8.5 × 2.6 (191.6 × 27.9 × 8.5)  
**Speed, knots:** 31  
**Complement:** 52 (6 officers)

**Machinery:** 3 MTU 20V 538 TB92 diesels; 12,800 hp(m) (9.4 MW); 3 shafts  
**Missiles:** SSN: 4 C-802 (CSS-N-8 Saccade) (2 twin); inertial guidance and active radar terminal homing to 120 km (64.8 n miles) at Mach 0.9; warhead 190 kg; sea-skimmer.  
**Guns:** 1 AK-176 76 mm/59; 120 rds/min to 15 km (8.1 n miles); weight of shell 5.9 kg. 1 AK-630 30 mm/65; 6 barrels per mounting; 3,000 rds/min combined to 4 km (2.2 n miles).  
**Physical countermeasures:** Decoys: 2 chaff launchers.  
**Radar:** Surface search: E/F-band.  
**Navigation:** Racal Decca 1226; I-band.  
**Fire control:** Type 347G (Rice Bowl); J-band (for AK-176).  
**Electro-optic systems:** Optronic director.

**Programmes:** Light guided missile corvettes. Project 802 built with Bulgarian assistance. Ordered July 1983. First one completed trials in 1988. Work on the second of class was suspended in 1992 due to shipyard debt problems but the ship completed in 1995. Main guns were fitted at a later date.

**Structure:** Hull size suggests association with Bazán Cormoran class.

**Operational:** Pennant numbers have changed to 800 series.



AL KIRCH (old number)

3/2018, Diego Quevedo / 1292187



EL CHIHAB (old number)

7/2005, B Przelin / 1129990

## 0 + 1 EL MOUTASSADI (MODIFIED TYPE 056) CLASS (FSGHM)

Name	No	Builders
–	940	Hudong-Zhonghua, Shanghai

**Displacement, tonnes:** 1,600 full load (est)  
**Dimensions, metres (feet):** 96 × 11.1 (est) × 4.4 (est) (315.0 × 36.4 est × 14.4 est)  
**Speed, knots:** 25. **Range, n miles:** 3,500 at 16 kt  
**Complement:** 78

**Machinery:** 2 diesels; 2 shafts  
**Missiles:** SSN: 4 C-802A (CSS-N-8 Saccade) (2 twin); inertial guidance and active radar terminal homing to 120 km (64.8 n miles) at Mach 0.9; warhead 190 kg; sea-skimmer.  
**Guns:** 1 FL-3000N/HHQ-10 8-cell launcher; passive IR/anti-radiation homing to 9 km (4.9 n miles).

**A/S Mortars:** 2–12-tubed launchers.

**Electronic countermeasures:** To be announced.

**Radar:** Air/surface search: SR2410C; 3D; E/F-band.

Surface search: To be announced.

**Navigation:** I-band.

**Fire control:** Type 347G (Rice Bowl); J-band.

**Combat data systems:** To be announced.

**Helicopters:** Platform only for 1 medium.

**Comment:** Construction of a new class of corvettes to Lloyd's Register rules at Hudong-Zhonghua was confirmed in mid-2020. The first-of-class was observed under sea trials in August 2022 and on its delivery journey in March 2023. Specifications are based on the Type 056 Jiangdao-class corvettes and may be different. Delivered in April 2023.

## 1 C 62 CLASS (CORVETTE) (FSG)

Name	No	Builders	Launched	Commissioned
RAIS HASSAN BARBIAR	807	ERCN, Mers-el-Kebir	Mar 2012	8 Aug 2017

**Displacement, tonnes:** 766.1 full load  
**Dimensions, metres (feet):** 61.7 × 8.82 × 2.54 (202.4 × 28.9 × 8.3)  
**Speed, knots:** 28  
**Complement:** 58

**Machinery:** 3 MTU 16V 595 TE90 diesels; 17,631 hp (13.1 MW); 3 shafts  
**Missiles:** 4 C-802 (CSS-N-8 Saccade) (2 twin); inertial guidance and active terminal radar homing to 120 km (64.8 n miles) at Mach 0.9; warhead 165 kg; sea-skimmer.  
**Guns:** 1 H/PJ-26 76 mm/59 (AK-176); 120 rds/min to 15 km (8.1 n miles); weight of shell 5.9 kg. 1 H/PJ-12 (Type 730/730A) 30 mm; 7 barrels per mounting; 4,200 rds/min combined to 4 km (2.2 n miles).

**Physical countermeasures:** Decoys: 2–6 barrelled launchers.

**Radar:** Air/surface search: Type 360; E/F-band.

Surface search/navigation: Kelvin Hughes SharpEye; I-band. Furuno; I-band.

**Fire control:** TR47/Type 347G(1) (Rice Bowl); J-band (for 76 mm and 30 mm).

**Electro-optic systems:** Optronic director.

**Comment:** Light corvette with missile armament. Based on a stretched version of the C 58 Djebel Chenoua-class design.



RAIS HASSAN BARBIAR

4/2018, US Navy / 1761456

## 8 Algeria > Corvettes — Patrol forces

### 3 RAIS HAMIDOU (NANUCHKA II/BURYA) (PROJECT 1234E) CLASS (MISSILE CORVETTES) (FSGM)

Name	No	Builders	Commissioned
RAIS HAMIDOU	801	Petrovsky Shipyard, Leningrad	4 Jul 1980
SALAH RAIS	802	Petrovsky Shipyard, Leningrad	9 Feb 1981
RAIS ALI	803	Petrovsky Shipyard, Leningrad	8 May 1982

**Displacement, tonnes:** 660 full load  
**Dimensions, metres (feet):** 59.3 × 11.8 × 2.6 (194.6 × 38.7 × 8.5)  
**Speed, knots:** 33  
**Range, n miles:** 2,500 at 12 kt; 900 at 31 kt  
**Complement:** 42 (7 officers)

**Machinery:** CODAD; 6 Zvezda M504 diesels; 26,112 hp(m) (19.2 MW); 3 shafts  
**Missiles:** SSM: 8 KRTV 3M-24E Uran (SS-N-25 Switchblade) (2 quad); inertial guidance with command updates and active radar terminal homing to 130 km (70.2 n miles) at Mach 0.9; warhead 145 kg; sea-skimmer.  
**SAM:** M-4 Osa-M (SA-N-4 Gecko) (twin launcher); 20 4K-33/9M33 missiles; command guidance to 9 km (4.9 n miles) at Mach 1.5; warhead 14.5 kg.  
**Guns:** 2 AK-725 57 mm/75 (twin); 120 rds/min to 12.7 km (6.9 n miles); weight of shell 2.8 kg. 1 AK-630M 30 mm/65; 6 barrels per mounting; 5,000 rds/min combined to 4 km (2.2 n miles).  
**Physical countermeasures:** Decoys: PK-16 DLS; 2 16-barrel 82 mm fixed launchers; IR flares and chaff (801 and 803).  
**Electronic countermeasures:** ESM: NRJ-6A.  
**Radar:** Air/surface search: Positiv-ME1; I-band.  
**Navigation:** Don 2; I-band.  
**Fire control:** MPZ-301 4R33 Baza (Pop Group); F/H/I/J-band (Osa-M/SA-N-4).  
**IFF:** Two Square Head. High Pole.

**Programmes:** Project 1234E corvettes with anti-surface warfare focus. Three delivered as new construction in 1980–82.

**Modernisation:** *Salah Rais* refitted at Kronstadt 1997 to November 2000 and received 3M-24E Uran ASHM, an AK-630M 30 mm CIWS, and upgraded sensors. Refit of *Rais Hamidou* began in late 2007 and completed in 2011. *Rais Ali* began refit in late 2008 and completed in 2012. A contract for the refit of *Salah Rais* was let in 2012. Post-refit trials at Baltysk noted in March 2017. Drum Tilt radar has been replaced by optronic director in these ships. Positiv-ME radar installed on mast top for *Salah Rais* in 2000, however, subsequently replaced by version enclosed in a radome on bridge roof as fitted on the other ships during 2012–17 modernisation.



SALAH RAIS (before modernisation)

12/2007, Diego Quevedo / 1335235

### SHIPBORNE AIRCRAFT

**Numbers/Type:** 6 AgustaWestland Super Lynx Mk 140.  
**Operational speed:** 120 kt (222 km/h).

**Service ceiling:** 10,000 ft (3,048 m).

**Range:** 320 n miles (593 km).

**Role/Weapon systems:** Six tactical variants of the Super Lynx for operation from the MEKO A-200-class frigates ordered in 2012 and delivered in 2015–17. Roles include ASW, ASuW, and surveillance. Sensors: Thales Compact FLASH dipping sonar. Weapons: 2 MU90 torpedoes or up to 8 Denel Dynamics Mokopa ASMs.

### LAND-BASED MARITIME AIRCRAFT

**Numbers/Type:** 2 Beechcraft King Air 200T.

**Operational speed:** 282 kt (523 km/h).

**Service ceiling:** 35,000 ft (10,670 m).

**Range:** 2,030 n miles (3,756 km).

**Role/Weapon systems:** Operated by Air Force for crew training and for close-range EEZ operations. Sensors: Weather radar only. Weapons: Unarmed.

**Numbers/Type:** 1 Fokker F27-400.

**Operational speed:** 250 kt (463 km/h).

**Service ceiling:** 25,000 ft (7,620 m).

**Range:** 2,700 n miles (5,000 km).

**Role/Weapon systems:** Visual reconnaissance duties in support of EEZ, particularly offshore platforms. Sensors: Weather radar and visual means only. Weapons: Limited armament.

**Numbers/Type:** 4 AgustaWestland AW101 Mk 610.

**Operational speed:** 160 kt (296 km/h).

**Service ceiling:** 15,000 ft (4,572 m).

**Range:** 550 n miles (1,019 km).

**Role/Weapon systems:** Contract reported in late 2007 for a total of six utility variants. All are to be configured for SAR duties although the aircraft design facilitates rapid role-change to a troop-carrying configuration. Test flying of the first aircraft began in November 2009. Military lift is 28 troops and up to 4 tonnes underslung. Sensors: Telephonics RDR-1600 SAR Weather Avoidance Radar. One aircraft lost in a crash on 21 May 2017, and a second on 16 December 2020.

**Numbers/Type:** 4 AgustaWestland Super Lynx Mk 130.

**Operational speed:** 120 kt (222 km/h).

**Service ceiling:** 10,000 ft (3,048 m).

**Range:** 320 n miles (593 km).

**Role/Weapon systems:** Contract reported in late 2007 for a total of four unarmed variants of the Super Lynx. Roles include maritime surveillance and SAR. Delivery was completed in January 2012.

**Numbers/Type:** 57 Sukhoi SU 30MK2 Flanker.

**Operational speed:** 1,345 kt (2,500 km/h).

**Service ceiling:** 59,000 ft (18,000 m).

**Range:** 2,160 n miles (4,000 km).

**Role/Weapon systems:** Multirole combat aircraft operated by the air force. Order for 28 in 2006 was delivered in 2008. A further 16 were ordered in 2010, and 14 more in 2015. Weapons: 1–30 mm cannon; 10 AAMs.

**Numbers/Type:** 3 AgustaWestland AW139M.

**Operational speed:** 165 kt (305 km/h).

**Service ceiling:** 20,000 ft (6,096 m).

**Range:** 573 n miles (1,061 km).

**Role/Weapon systems:** Three AW139M delivered to the naval forces in 2015. Further aircraft of the type operated by other services and agencies. Used in search and rescue role.

### PATROL FORCES

#### 19 KEBIR CLASS (FAST ATTACK CRAFT—GUN) (PG/PB)

EL YADEKH 341	EL DJARI 346	EL MAHIR 354	- 359
EL MOURAKEB 342	EL SAHER 347	EL WAIFI 355	EL MOUNTASSIR 360
EL KECHIEF 343	EL MOUKADEM 348	EL AZOUM 356	EL THABIT 361
EL MOUTARID 344	EL TINAI 349	EL DJASUR 357	EL SADER 362
EL RASSED 345	EL KANASS 350	EL HAMIS 358	

**Displacement, tonnes:** 166 standard; 200 full load

**Dimensions, metres (feet):** 37.5 × 6.9 × 1.7 (123.0 × 22.6 × 5.6)

**Speed, knots:** 27

**Range, n miles:** 3,300 at 12 kt; 2,600 at 15 kt

**Complement:** 27 (3 officers)

**Machinery:** 2 MTU 12V 538 TB92 diesels; 5,110 hp(m) (3.8 MW); 2 shafts

**Guns:** 1 Oto Melara 76 mm/62 Compact (341–342); 85 rds/min to 16 km (8.6 n miles) anti-surface; 12 km (6.5 n miles) anti-aircraft; weight of shell 6 kg. 1–20 mm or 2–23 mm (twin) fore (343–362); 2–23 mm (twin) or 14.5 mm (twin) aft (341–360). 2–7.62 mm MGs.

**Radar:** Surface search: Sperry Marine; I-band.

**Electro-optic systems:** Lawrence Scott optronic director (in 341 and 342).

**Programmes:** 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. A further seven were then assembled or built at ECRN, Mers-el-Kebir. Of these, 346 commissioned 10 November 1985 and 347–349 delivered by 1993. After a delay two further craft were completed; 350 in late 1997 followed by 354 in 1998. 356–362 have since been added.

**Structure:** There are some variations in armament. Several later craft (361–362) have a crane vice aft gun armament.

**Operational:** Some are operated by the Coast Guard.



EL KANASS

6/2015, Diego Quevedo / 1632005



EL SADER

6/2013, Diego Quevedo / 1628689



EL MOURAKEB

3/2006, M Declerck / 1159230

### 3 OSA II (PROJECT 205) CLASS (FAST ATTACK CRAFT—MISSILE) (PGGF)

**Displacement, tonnes:** 245 full load  
**Dimensions, metres (feet):** 38.6 × 7.6 × 2.7 (126.6 × 24.9 × 8.9)  
**Speed, knots:** 37. **Range, n miles:** 500 at 35 kt  
**Complement:** 30

**Machinery:** 3 Zvezda M504 diesels; 10,800 hp(m) (7.94 MW) sustained; 3 shafts  
**Missiles:** SSM: 4 Raduga 4K-51/P-15M Termit (SS-N-2C Styx); active radar homing to 83 km (44.8 n miles) at Mach 0.9; warhead 513 kg; sea-skimmer.  
**Guns:** 4 AK-230 30 mm/64 (2 twin); 1,000 rds/min to 6.5 km (3.5 n miles); weight of shell 0.35 kg.  
**Radar:** Surface search: Square Tie; I-band.  
**Fire control:** MR-104 Rys (Drum Tilt); I-band.  
**IFF:** 2 Square Head. High Pole B.

**Programmes:** Fast missile craft. Osa II transferred 1976–77 (four), fifth in September 1978, sixth in December 1978, next pair in 1979, and one from the Black Sea on 7 December 1981.  
**Modernisation:** Plans to re-engine were reported as starting in late 1992 but there has been no confirmation.  
**Operational:** The Osa IIs are gradually being retired and operational status of remainder is doubtful. Three vessels reported sunk as targets.



OSA II CLASS

7/2008, Diego Quevedo / 1336042

## AMPHIBIOUS FORCES

### 1 + (1) KALAAT BENI-ABBES (MODIFIED SAN GIORGIO) CLASS (LHD)

Name	No	Builders	Laid down	Launched	Commissioned
KALAAT BENI-ABBES	474	Fincantieri, Muggiano	2011	14 Jan 2014	4 Sep 2014

**Displacement, tonnes:** 8,800 full load  
**Dimensions, metres (feet):** 142.9 × 21.5 × 4.9 (468.8 × 70.5 × 16.1)  
**Speed, knots:** 20. **Range, n miles:** 7,000 at 15 kt  
**Complement:** 152 + 450 spare berths

**Military lift:** 15 armoured vehicles, 438 troops  
**Machinery:** 2 Wärtsilä 12V 32 diesels; 16,100 hp (12 MW); 2 shafts  
**Missiles:** SAM: DCNS Sylver A50 VLS (8 cells) ①; MBDA Aster 15; inertial guidance with mid-course update and active radar terminal homing to 30 km (16.2 n miles) at Mach 3; warhead 15 kg.  
**Guns:** 1 Oto Melara 76/62 mm Super Rapide ②; 120 rds/min to 16 km (8.6 n miles); weight of shell 6 kg. 2–25 mm ③.  
**Physical countermeasures:** Decoys: Selex SCLAR-H 20-barrelled trainable launchers; IR flares and chaff.  
**Electronic countermeasures:** ESM: Elettronica SEAL.  
**Radars:** Air/surface search: Selex Kronos Grand Naval ④; G/H-band.  
**Navigation:** 2 I-band.  
**Helicopter control:** 1 I-band.  
**Fire control:** 1 Selex NA-25XP (RTN-30X) ⑤; J-band.  
**Combat data systems:** Selex Athena-C.  
**Helicopters:** 2 AW101 or Super Lynx.

**Programmes:** It was announced on 27 July 2011 that a contract had been signed with Orizzonte Sistemi Navali for the construction of a landing and logistic support ship based on the Italian LPD San Giorgio. There is reported to be an option for a second ship. The design began sea trials in 2014 and the ship was formally handed over on 4 September 2014.

**Structure:** The ship is equipped with a 20.5 × 7 m well-dock. Three LCVPs are carried on davits. There is a vehicle ramp on the starboard side. The ship is equipped with hospital facilities (250 m²). Fitted for but not with a second eight cell VLS.

**Operational:** The ship arrived in Algeria in March 2015 and is based at Jijel.

Builders

Fincantieri, Muggiano

Laid down

2011

Launched

14 Jan 2014

Commissioned

4 Sep 2014

Commissioned

2011

Launched

14 Jan 2014

Commissioned

2014

Commission