



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 × 7.11 × 2.52 (140.4 × 23.3 × 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 × 5.5 × 1.8 (65.0 × 18.0 × 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 × 4 × 0.9 (45.6 × 13.1 × 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 × 4.3 × 0.76 (44.0 × 14.1 × 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 × 4.85 × 1.65 (49.2 × 15.9 × 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	204	El Idrissi		
013	El Hadj Slimane	920	Adhafar	359	—	937	La Soummam		
021	Djurjura	921	El Fatih	360	El Montassir	938	El Mellah		
022	Akram Pacha	922	Ezzadjer	361	El Thabit	261	El Mourafik		
031	Ouarsenis			362	El Sader	701	El Moundjid		
032	Hoggar					702	El Mous'if		
						703	El Moussanid		
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		
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	Salah Rais	350	El Kanass				
			Rais Ali	354	El Mahir	501	El Kasseh 1		
			Rais Hassan Barbiar	355	El Wafi	502	El Kasseh 2		
				356	El Azoum	503	El Kasseh 3		
				357	El Djasur				
Mine warfare forces			Auxiliaries						

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.

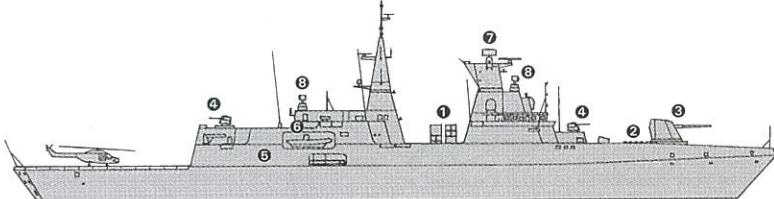
SAM: Denel Dynamics Umkhonto-IR Block 2; 32-cell VLS ②; inertial guidance with mid-course update and IR terminal homing to 15 km (8.1 n miles) at Mach 2.4; warhead 23 kg.

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/passive; 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