



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 | Launched | Commissioned |
|-------------|-------------|--------------|
| 14 Feb 1985 | 26 Jul 1986 | 29 Nov 1986 |
| 26 Jul 1986 | 10 Jul 1987 | 5 Nov 1987 |
| 29 Apr 2007 | 20 Nov 2008 | 28 Aug 2009 |
| 27 Dec 2007 | 9 Apr 2009 | 29 Oct 2009 |
| 2015 | 14 Mar 2017 | 9 Jan 2019 |
| 2016 | 29 Jun 2017 | 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.

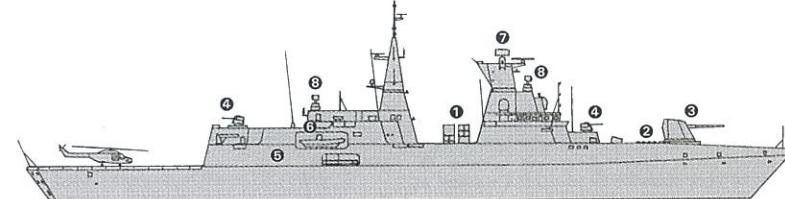
SAM: Denel Dynamics Umkhonto-IR Block 2; 32-cell VLS ②; inertial guidance with mid-course update and IR terminal homing to 15 km (8.1 n miles) at Mach 2.4; warhead 23 kg.

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

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 x 14.4 x 3.87 (393.7 x 47.2 x 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.

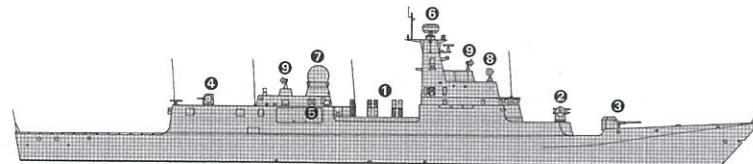
Guns: 1 H/PJ-26 76 mm/59 ③; 120 rds/min to 15 km (8.1 n miles); weight of shell 5.9 kg. 2 Type 730B 30 mm; 7 barrels per mounting ④.

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&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.

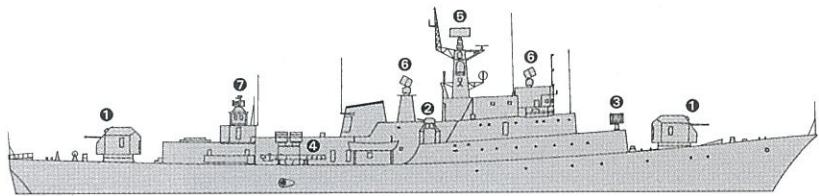
Mines: Rails for up to 22 mines.
Depth charges: 2 racks.
Physical countermeasures: Decoys: 2 PJ-46 decoy launchers.
Electronic countermeasures: ESM: NRJ-6A.
Radar: Air/surface search: Positiv-ME1.2 ⑤; I-band.
Navigation: Don 2; I-band (901–902). To be announced (903).
Fire control: MPZ-301 4R33 Baza (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: SSIM: 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: SSIM: 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 KECHEF 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.

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: SSN; 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 |

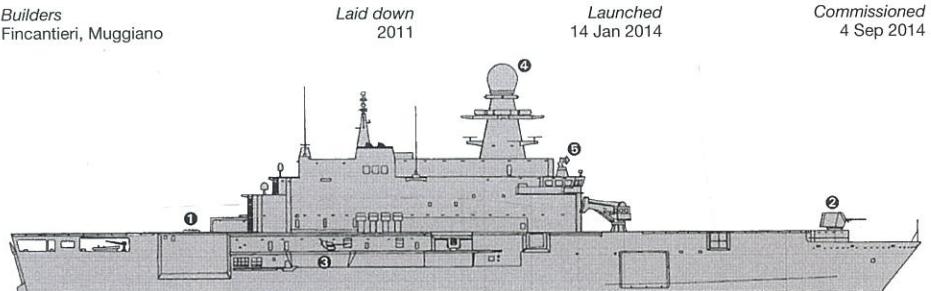
Displacement, tonnes: 8,800 full load
Dimensions, metres (feet): 142.9 × 21.5 × 4.9 (468.8 × 70.5 × 16.1)
Speed, knots: 20. **Range, n miles:** 7,000 at 15 kt
Complement: 152 + 450 spare berths

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.



KALAAT BENI-ABBES

(Scale 1 : 1,200, Ian Sturton / 1693809



KALAAT BENI-ABBES

5/2018, Algerian Ministry of National Defence / 1734750

2 KALAAT BENI HAMMAD CLASS (LANDING SHIP LOGISTIC) (LSTH)

| Name | No | Builders | Commissioned |
|--------------------|-----|------------------------------|--------------|
| KALAAT BENI HAMMAD | 472 | Brook Marine, Lowestoft | Apr 1984 |
| KALAAT BENI RACHED | 473 | Vosper Thornycroft, Woolston | Oct 1984 |

Displacement, tonnes: 2,489 full load
Dimensions, metres (feet): 93 × 15.5 × 2.5 (305.1 × 50.9 × 8.2)
Speed, knots: 15. **Range, n miles:** 3,000 at 12 kt
Complement: 81

Military lift: 240 troops; 7 MBTs and 380 tonnes other cargo; 2 tonne crane with athwartships travel
Machinery: 2 MTU 16V 1163 TB82 diesels; 8,800 hp(m) (6.5 MW) sustained; 2 shafts
Guns: 2 Breda 40 mm/70 (twin); 300 rds/min to 12.5 km (6.7 n miles); weight of shell 0.96 kg. 4 110-PM 25 mm/80 (2 twin 2M-3).
Physical countermeasures: Decoys: Terma C-Guard DLS; fixed launchers; IR flares and chaff.
Electronic countermeasures: ESM: Racal Cutlass; intercept.
EOM: Racal Cygnus; jammer.
Radars: Air/surface search: Terma SCANTER 6002; I-band.
Navigation: Racal Decca TM 1226; I-band.
Fire control: Marconi S 800; J-band.
Electro-optic systems: CSEE Naja optronic.

Helicopters: Platform only for one medium.

Programmes: First ordered in June 1981, and launched 18 May 1983; second ordered 18 October 1982 and launched 15 May 1984. Similar hulls to Omani *Nasr Al Bahr*.

Modernisation: Both ships have undergone life-extension refits at Navantia, Ferrol. *Kalaat Beni Rached* was completed in June 2014 and *Kalaat Beni Hammad* in September 2015. Work has included overhaul of main machinery, a new command and control system, SCANTER radar, and hull and structural upgrades.

Structure: These ships have a through tank deck closed by bow and stern ramps. The forward ramp is of two sections measuring length 18 m (when extended) × 5 m breadth, and the single section stern ramp measures 4.3 × 5 m with the addition of 1.1 m finger flaps. Both hatches can support a 60 ton tank and are winch-operated. In addition, side access doors are provided on each side forward. The tank deck side bulkheads extend 2.25 m above the upper deck between the forecastle and the forward end of the superstructure, and provide two hatch openings to the tank deck below. Additional 25 mm guns have been fitted either side of the bridge.

Operational: Both are reported active. Based at Jijel.



KALAAT BENI HAMMAD (before modernisation)

8/2004, B Prézelin / 1044061



KALAAT BENI RACHED (before modernisation)

11/2007, Frank Findler / 1335231

3 19 M LANDING CRAFT (LCM)

| Name | No | Builders |
|------|----|---------------------|
| 001 | | ECRN, Mers-El-Kebir |
| - | | ECRN, Mers-El-Kebir |
| - | | ECRN, Mers-El-Kebir |

Displacement, tonnes: 71 full load
Dimensions, metres (feet): 19.4 × 5.1 × 0.9 (63.6 × 16.7 × 3)
Military lift: 140 troops or 30 tonnes

Comment: Built locally by Etablissement de Construction et de Réparation Navales (ECRN) facility at Mers-el-Kebir under 2014 contract with Fincantieri. Can operate from *Kalaat Beni-Abbas*.

MINE WARFARE FORCES

Notes: The Coast Guard support ship *El Mourafik* may have a minelaying capability.

3 EL KASSEH CLASS (MHSC)

| Name | No | Builders | Laid down | Launched | Commissioned |
|-------------|-----|----------------------|-----------|-------------|--------------|
| EL KASSEH 1 | 501 | Intermarine, Sarzana | 2014 | 5 Apr 2016 | 30 Sep 2017 |
| EL KASSEH 2 | 502 | Intermarine, Sarzana | 2017 | 20 Dec 2018 | 2020 |
| EL KASSEH 3 | 503 | Intermarine, Sarzana | - | 2021 | 2022 |

Displacement, tonnes: 720 full load
Dimensions, metres (feet): 52.5 × 9.9 × 3.1 (172.2 × 32.5 × 10.2)
Speed, knots: 15
Range, n miles: 1,500 at 12 kt
Complement: 36 (6 officers)

Machinery: 2 diesels; 2,719 hp (2 MW); 2 shafts; bow thruster
Guns: 2 Leonardo Marlin WS 30 mm.
Physical countermeasures: MCM: Gaymarine Pluto Plus.
Radar: Surface search: GEM Elettronica; I-band.
Navigation: I-band.
Sonars: Klein Marine Systems side scan sonar. Hull mounted: to be announced.
Combat data systems: To be announced.

Programmes: Contract with Intermarine SPA announced in October 2014 for the construction of one MCMV with an option for a second vessel. Orizzonti Sistemi Navali is the prime contractor, with construction at Intermarine Sarzana yard under subcontract. The contract includes training and logistic support. A second ship was ordered in 2016. The first ship was delivered on 20 June 2017 and arrived in Algeria in September 2017. The second unit was delivered in July 2020, and a third unit has also been ordered and was delivered on 30 August 2022.

Structure: Monocoque GRP construction. The design is similar to the Katanpää class built for Finland, however features a different equipment and armament fit.



EL KASSEH 2

9/2022, G&M Gyssels / 2040664



EL KASSEH 3

11/2021, L Peruzzi / 2014884

SURVEY SHIPS

Notes: *Belkacem Grine* is a training/survey ship operated by the CNRDPA (National Center for Research and Development of Fisheries and Aquaculture).

1 OSV 95 CLASS (AGSC)

EL MASSEH BH 205

Dimensions, metres (feet): 29 × 7.7 × ? (95.1 × 25.3 × ?)
Speed, knots: 12
Range, n miles: 1,500 at 12 kt
Complement: 6 + 9 embarked forces
Machinery: 2 diesels; 2 shafts; bow thruster

Comment: OSV 95 design. Aluminium construction. 85 m² working deck aft. Delivered by Ocea in June 2021.

1 SURVEY SHIP (AGS)

EL IDRISI BH 204 (ex-A 673)

Displacement, tonnes: 540 full load
Dimensions, metres (feet): 42.19 × 8 × ? (138.4 × 26.2 × ?)
Complement: 28 (6 officers)

Comment: Built by Matsukara, Japan and delivered 17 April 1980. Based at Algiers.

2 SURVEY CRAFT (YFS)

RAS TARA **ALIDADE**

Comment: *Ras Tara* is of 16 tonnes displacement, built in 1980 and has a crew of four. *Alidade* is of 20 tonnes, built in 1983 and has a crew of eight.

TRAINING SHIPS**1 DAXIN CLASS (AXH)**

| Name | No | Builders | Launched | Commissioned |
|------------|-----|---------------------------|----------|--------------|
| LA SOUMMAM | 937 | Hudong Shipyard, Shanghai | Mar 2005 | 2006 |

Displacement, tonnes: 5,470 full load
Dimensions, metres (feet): 132 × 16.4 × 5.4 (433.1 × 53.8 × 17.7)
Speed, knots: 15
Range, n miles: 5,000 at 15 kt
Complement: 170 (30 instructors [est]; 200 trainees [est])

Machinery: 2 Shaanxi/Pielstick 6PC2.5L diesels; 7,800 hp(m) (5.73 MW); 2 shafts

Guns: 1 — 76 mm; 4 — 37 mm (2 twin). 2 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 PJ-46 decoy launchers.

Electronic countermeasures: ESM/ECM: NRJ-6A.

Radar: Air/surface search: Type 363; D-band; Type 354 (Eye Shield); G/H-band.

Surface search: Type 756; I-band.

Navigation: Racal Decca 1290; I-band.

Fire control: Round Ball; I-band.

Sonars: Echo Type 5; hull-mounted; active; high frequency.

Helicopters: Platform only.

Comment: Very similar to Chinese training ship of same class. Based at Mers-el-Kebir.



LA SOUMMAM

7/2016, Diego Quevedo / 1693701

1 SAIL TRAINING SHIP (AXS)

| Name | No | Builders | Laid down | Launched | Commissioned |
|-----------|-----|----------------------------|-------------|------------|--------------|
| EL MELLAH | 938 | Remontowa Shipyard, Gdansk | 28 Jan 2015 | 7 Nov 2015 | 5 Dec 2017 |

Measurement: 2,000 gt

Dimensions, metres (feet): 110.0 × 14.5 × 5.75 (360.9 × 47.6 × 18.9)

Speed, knots: 17

Complement: 102

Machinery: 1 MTU diesel; 1,767 hp (1.3 MW); 1 shaft

Radar: Navigation: I-band.

Comment: Three-masted sail training vessel, with some 3,000 m² sail area. Launched without masts at Gdansk in November 2015. Delivered in October 2017 and arrived in Algeria in December 2017. The contract included a training package, including a training cruise in the Baltic on Polish sail training ship *Dar Młodzieży*, which is of similar size.



EL MELLAH

7/2019, Derek Fox / 1751525

AUXILIARIES

Notes: A tender for the construction of two replenishment tankers was issued on 30 May 2012. There have been no further reports of progress.

TUGS

Notes: There are a number of harbour tugs of about 265 tonnes. These include Kader A 210, El Chadi A 211, and Mazafran 1–4 Y 206–209.

COAST GUARD

Notes: (1) Six Kebir class were transferred from the Navy for Coast Guard duties but may have naval crews.
(2) There are also up to 12 small fishery protection vessels in the GC 301 series.

1 SUPPORT SHIP (WARL)

EL MOURAFIK GC 261

Displacement, tonnes: 600 full load
Dimensions, metres (feet): 59 × 8.4 × 2.1 (193.6 × 27.6 × 6.9)
Speed, knots: 14
Complement: 54
Machinery: 2 diesels; 2,200 hp(m) (1.6 MW); 2 shafts
Guns: 2–12.7 mm MGs.
Radar: Surface search: I-band.

Comment: Delivered by transporter ship from China in April 1990. The design appears to be a derivative of the T43 minesweeper but with a stern gantry. May have a minelaying capability. Based at Algiers.



EL MOURAFIK

6/2009, Diego Quevedo / 1305756

7 EL MOUDERRIB (CHUI-E) CLASS (WAXL)

EL MOUDERRIB I GC 251
EL MOUDERRIB II GC 252
EL MOUDERRIB III GC 253
EL MOUDERRIB IV GC 254

EL MOUDERRIB V GC 255
EL MOUDERRIB VI GC 256
EL MOUDERRIB VII GC 257

Displacement, tonnes: 388 full load
Dimensions, metres (feet): 58.8 × 7.2 × 2.2 (192.9 × 23.6 × 7.2)
Speed, knots: 24
Range, n miles: 1,400 at 15 kt
Complement: 42 (25 trainees)
Machinery: 3 PCR/Kolomna diesels; 6,600 hp(m) (4.92 MW); 3 shafts
Guns: 4 China 14.5 mm (2 twin).
Radar: Surface search: Type 756; I-band.

Comment: Two delivered by transporter ship from China in April 1990 and described as training vessels. Two more acquired in January 1991, the last three in July 1991. Hainan class hull with modified propulsion and superstructure similar to some Chinese paramilitary vessels. Used for training when boats are carried aft in place of the second 14.5 mm gun. GC 255 and 257 are reported non-operational.



EL MOUDERRIB IV

3/2006, M Declerck / 1164475

12 JEBEL ANTAR CLASS (WPB)

JEBEL ANTAR 301
JEBEL HANDO 302
– 303
RAS DJENAD 304

RAS TENES 305
RAS TEKKOUCH 306
RAS SISLI 307
RAS NOUH 308

RAS BOUGARONI 309
RAS TAMENTFOUST 310
RAS OULLIS 311
– 312

Dimensions, metres (feet): 17 × ? × ? (55.8 × ? × ?)
Speed, knots: 15
Machinery: 2 diesels; 2 shafts
Guns: To be announced.
Radar: Navigation: I-band.

Comment: Patrol craft reported constructed at Mers-el-Kebir 1982–83.

41 OCEA FPB 98 CLASS (PATROL CRAFT) (WPB)

| | | | |
|--------------|--------------------|----------------------|---------------|
| EL SAAD 331 | EL BALAA 353 | PEACOCK 380 | EL ADHRA 391 |
| EL SAFI 332 | ACHERNAR 370 | NAIRAL ZAURAC 381 | EL ANKA 392 |
| EL NIHAL 333 | KAUS AUSTRALE 371 | PLEIDAS 382 | EL ARKOUB 393 |
| DENEBA 334 | FORMALHAUT 372 | SIRIUS 383 | EL GHORAB 394 |
| MIZAR 335 | MARKAB 373 | L'ETOILE POLAIRE 384 | FARKED 395 |
| ALKAI 336 | BETELGEUSE 374 | EL IZAR 385 | KAOKEB 396 |
| ALTAIR 337 | KIFFA BOREALIS 375 | EL JANAH 386 | EL RAMY 397 |
| MIRFAK 338 | HAMAL 376 | EL DHAIL 387 | CHOUDJAA 398 |
| ALNAIR 339 | DENEBA ALGEDI 377 | SABIK 388 | |
| EL NATEH 351 | ARNAB 378 | EL TARF 389 | |
| SAIF 352 | MIRZAM 379 | AKRAB 390 | |

Displacement, tonnes: 116 full load
Dimensions, metres (feet): 31.8 × 6.3 × 1.2 (104.3 × 20.7 × 3.9)

Speed, knots: 30

Range, n miles: 900 at 14 kt

Complement: 11 (3 officers)

Machinery: 2 Caterpillar C32 diesels; 3,660 hp (2.7 MW); 2 waterjets

Guns: 1 MSI DS Seahawk 30 mm.

Radar: Navigation: 2 Furuno; I-band.

Comment: The contract with OCEA, reported to have been signed in 2007, for the construction of 21 patrol craft was announced in October 2008. Delivery of the first vessel was made in late 2008 and the programme was completed in 2011. The patrol boats were completed at Saint Nazaire. L'Etoile Polaire is equipped for VIP duties and was built at Les Sables d'Olonne. The first of a second batch of 10 FPB 98 patrol craft was launched in December 2018. There had been 10 completed by June 2020. It was reported in September 2019 that an additional batch of 10 is under consideration, and the first of these (389) was noted in June 2020 and the final one (398) in June 2021.



11/2010, B Prézelin / 1406807

3 EL MOUNDJID (ULSTEIN UT 515) CLASS (SALVAGE TUGS) (WARS)

EL MOUNDJID 701 EL MOUS'IF 702 EL MOUSSANID 703

Measurement: 3,398 gt

Dimensions, metres (feet): 86.0 × 17.5 × 6.0 (282.2 × 57.4 × 19.7)

Speed, knots: 19

Machinery: CODAD: 4 Bergen B32 diesels; 21,752 hp (16.0 MW); 2 shafts; cp props; 2 bow thrusters; 2 stern thrusters

Radar: Navigation: I-band.

Comment: The ships are similar to the French Bourbon (Ulstein 515)-class salvage ships and were constructed at STX Tulcea in Romania and STX Brattvag Shipyard in Norway. Steel construction. The first ship was delivered in December 2011, the second in May 2012, and the third in September 2012. Ships of the class have provided escort to Algerian Kilo type submarines on voyages to and from Russia.



EL MOUSSANID

7/2021, Michael Nitz / 2011344



EL MOUNDJID

2/2012, Andrew Knox / 1455754