

11. MOROCCO

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Major Changes

- The Moroccan air force is upgrading its aged Mirage F-1 combat aircraft. Meanwhile the Moroccan air force received all of its new 24 F-16C/D combat aircraft, as well as all of its 24 T-6C training aircraft.
 - The Moroccan received its three Sigma type frigates as well as one OPV-70 patrol vessel.
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General Data

Official Name of the State: Kingdom of Morocco

Head of State: King Mohammed VI

Prime Minister: Abdelilah Benkirane

Secretary General of National Defense Administration: Abdul Latif Loudiyi

Commander-in-Chief of the Armed Forces: King Mohammed VI

Inspector General of the Armed Forces: Major General Abdulaziz Ben-Ani

Commander of the Air Force: Major General Ahmed Bou-Taleb

Commander of the Navy: Rear Admiral Mohamed Laghari

Area: 622,012 sq. km., including the former Spanish Sahara

Population: 32,500,000

Morocco

Demography

Ethnic groups		
• Arabs	19,370,000	59.6%
• Berbers	12,837,000	39.5%
• Europeans and others	293,000	0.9%
Religious groups		
• Sunni Muslims	32,078,000	98.7%
• Christians	357,000	1.1%
• Jews	65,000	0.2%

Economic Data

		2008	2009	2010	2011	2012
• GDP (current prices)	\$ bn	88.9	90.9	90.8	99.3	97.2
• GDP per capita	\$	2,851	2,885	2,851	3,084	2,988
• Real GDP growth	%	5.6	5.0	3.7	4.9	2.8
• Consumer price index	%	3.9	1.0	1.0	0.9	2.2
• External debt	\$ bn	20.9	24.6	26.3	29.0	NA
• Current account balance	\$ bn	-4.6	-4.9	-3.9	-7.9	-7.6
Government expenditure						
• Public expenditure/ GDP	%	31.8	31.1	31.9	34.5	34.4
• Defense expenditure	\$ bn	2.95	3.0	3.16	3.34	NA
• Real change in defense expenditure	%	22.4	1.7	5.3	5.7	NA
• Defense expenditure / GDP	%	3.3	3.3	3.5	3.4	NA
Population	m	31.2	31.5	31.8	32.2	32.5
Official exchange rate	Dh: \$1	7.75	8.05	8.42	8.09	NA

Sources: IMF Statistical Yearbook, SIPRI Yearbook, World Bank Statistical Yearbook

Foreign Military Cooperation

Type	Details
• Forces deployed abroad	Active Endeavor (NATO), Afghanistan (ISAF), Congo (MONUC), Kosovo (KFOR)
• Joint maneuvers	Algeria (2004), France (2004), NATO (2010), Spain (2004), UK (2003), US (2012)
• Security agreements	NATO (2008), Qatar (2010), Tunisia, US

Morocco

Arms Trade

Arms Procurement and Security Assistance Received

Country	Type	Details
Belgium	• Arms transfers	155mm M109 guns (2008), YPR-765 APCs (2009)
Canada	• Arms transfers	Bombardier CL-415 aircraft (2013)
France	• Arms transfers	Upgrading of Mirage F1 aircraft (2010), FERMM frigate (2011), Damocles targeting pods (2009), AASM guided bombs (2010), OPV-70 (2012)
Italy	• Arms transfers	C-27J Spartan aircraft (2011)
Netherlands	• Arms transfers	Sigma corvettes (2012)
Russia	• Arms transfers	Tunguska SAM (2008)
Spain	• Arms transfers	M60 MBTs (2009)
UK	• Arms transfers	Griffon 500TD hovercraft (2011)
US	• Arms transfers	155mm M109A5 guns (2012), F-16 C/D aircraft (2012), T-6C aircraft (2012), CH-47D helicopters (2009), AIM-120 AMRAAM (2009), AIM-9X Sidewinder (2012), AGM-65 Maverick (2009), AGM-88 HARM (2009), JDAM (2009), GBU-24 guided-bombs (2009), GBU-12 guided-bombs (2009), GBU-10 guided-bombs (2009), AAQ-33 SNIPER pods (2009), DB-110 reconnaissance pods (2009), G550 VIP aircraft (2009), ACES defensive-aids suite (2009), MIM-23B Hawk SAMs (2010), MPQ-64 radars (2011), M1A1 MBTs (2012)
	• Assistance	\$9 million military aid (2010)

Arms Sales and Security Assistance Extended

Country	Type	Details
US	• Facilities	Use of Sidi Slimane, Marrakech and Casablanca airfields in emergency; permission for space shuttle to land at Marrakech AFB; use of communications center at Kenitra; storage and use of naval facilities at Mohammedia, Tantan

Morocco

Defense Production

	M	P	A
Army equipment			
• Small arms ammunition	√		
• Assembly of trucks			√

Note: M - manufacture (indigenously developed)

P - production under license

A - assembly

Strategic Assets

NBC Capabilities

Nuclear capability

No nuclear capability. Party to the NPT.

Request for small scale nuclear research reactor approved by US government.

Chemical weapons and protective equipment

No known CW activity. Party to the CWC.

Biological weapons

No known BW activities. Signed but not ratified the BWC.

Armed Forces

Order-of-Battle

Year	2009	2010	2011	2012	2013
General data					
• Personnel (regular)	198,500	198,500	198,500	198,500	198,500
Ground Forces					
• Number of brigades	6	6	6	6	6
• Tanks	345 (640)*	345 (640)	345 (640)	345 (640)	345 (640)
• APCs/AFVs	1,450 (1,500)*	1,450 (1,500)	1,450 (1,500)	1,450 (1,500)	1,450 (1,500)
• Artillery (including MRLs)	1,142	1,142	1,197	1,197	1,197
Air Force					
• Combat aircraft	58 (72)	58 (72)	58 (72)	79 (89)	82 (89)
• Transport aircraft	41 (43)	42 (44)	43 (45)	44 (46)	46 (48)
• Helicopters	120 (130)	120 (130)	120 (130)	120 (130)	120 (130)

Morocco

Year	2009	2010	2011	2012	2013
Air Defense Forces					
• Light SAM launchers	49	49	49	49	49
Navy					
• Combat vessels	15	15	15	18	18
• Patrol craft	62	62	63	63	63

* Due to change in estimate.

Personnel			
	Regular	Reserves	Total
Ground Forces	175,000	150,000	325,000
Air Force	13,500		13,500
Navy and Marines	10,000		7,000
Total	198,500	150,000	348,500
Paramilitary			
• Gendarmerie Royale	20,000		10,000
• Force Auxiliere	25,000		25,000
• Mobile Intervention Corps	5,000		5,000

Ground Forces

Formations		
	Independent brigades / groups	Independent battalions
Armored		10
Mechanized	3	19
Infantry		35
Light Security	1	
Camel Corps		5
Paratroops/ Airborne/ Commando	2	6
Marines		2
Artillery		12
Air Defense		1
Total	6	90

Morocco

Tanks

Model	Quantity	In service	Since	Notes
MBTs				
High quality				
• T-72	100	40	2000	
Medium and low quality				
• M60 A1/A3	250	250	1981/ 93	
• M48 A5	185	0	1974	
Subtotal	435	250		
Light tanks				
• SK-105 (Kürassier)	105	45	1985	
Total	640	345		
Future procurement				
• M1A1 SEP	200			Under negotiations

APCs/AFVs

Model	Quantity	In service	Since	Notes
APCs				
• M113 A1/A2	625	625	1979	Including 23 M901 Also listed under Anti-Tank Weapons
• UR-416	55	55	1977	Also listed under Anti-Tank Weapons
Subtotal	680	680		
IFVs				
• YPR-765	120	120	2009	Including 19 also listed under Anti- Tank Weapons
• Ratel 20/90	60	60	1981	
• VAB -VCI/VTT	290	290	1979	
Subtotal	470	470		
Reconnaissance				
• AMX-10 R/CM	110	110	1981	
• BRDM-2	50	0	1992	Including 36 listed under Anti-Tank Weapons
• EBR-75	16	16	1970	
• AML-90/AML-60	175	175	1966	
Subtotal	350	300		
Total	1,500	1,450		

Morocco

Artillery

Model	Quantity	In service	Since	Notes
Self-propelled guns and howitzers				
• 155mm M109 A5	60	60	2012	From US drawdown
• 203mm M110 A2	60	60	1996	
• 155mm M109 A1	123	123	2004	
• 155mm Mk F-3 (AMX)	100	100	1980	
Subtotal	343	343		
Towed guns and howitzers				
• 155mm FH-70	30	30	1993	
• 155mm M114	20	20	1976	
• 155mm M198	35	35		
• 130mm M-46	18	18	1981	
• 105mm L-118	30	30	1980	To be upgraded
• 105mm M-1950	35	35	1972	
• 105mm M101	18	18	1970	
Subtotal	186	186		
Mortars, under 160mm				
• 120mm	600	600	1972	20 SP mounted on VAB
• 107mm M30 SP	32	32	2000	Mounted on M106
Subtotal	632	632		
MRLs				
• 122mm BM-21	36	36	1980	
Total	1,197	1,197		

Ground Radars

Model	Quantity	In service	Since	Notes
Artillery/mortar locating radars				
• RATAc	12	12	1980	Mounted on VTT chassis

Logistics and Engineering Equipment

M578 recovery vehicles (60), SK-105 ARVs (10), M728 ENG (6)

Morocco

Anti-Tank Missiles

Model	Quantity	In service	Since	Notes
• BGM-71A TOW	150	150	1978	
• M901 ITV	23	23	1999	Also listed under APCs
• AT-3 (Sagger) SP	36	0	1992	Mounted on BRDM-2
• Cobra SP	42	42	1979	Mounted on UR-416
• M47 Dragon	480	480	1978	
• MILAN	100	100	1982	Including 19 mounted on YPR-765 chassis
Total	830	795		

Air Force

Order-of-Battle

Category	Quantity	In service	Notes
Combat	89	82	
Transport	48	46	
Helicopters	130	120	

Combat Aircraft

Model	Quantity	In service	Since	Notes
Advanced Multi-role				
• F-16 C/D	24	24	2011	
• Mirage MF2000	12	12	2010	Being delivered
Subtotal	36	36		
Multi-role				
• F-5E/F	22	15	1981	Upgraded
• Mirage F1	15	15	1979	Being upgraded
Subtotal	37	30		
Ground attack				
• OV-10 Bronco	3	3	1981	
Obsolete				
• F-5A/B	13	13	1967	
Total	89	82		
Future procurement				
• Mirage MF2000	27			Upgrade of Mirage F1

Morocco

Transport Aircraft

Model	Quantity	In service	Since	Notes
• King Air 100	5	5	1975	
• King Air 200	5	5	1983	
• King Air 300	1	1	1991	
• Gulfstream G550	1	1	2010	VIP aircraft
• Boeing 707	2	2	1982	
• C-27J Spartan	4	4	2010	
• C-130H Hercules	15	15	1974	Including 2 employed in electronic surveillance and 2 tankers
• CN-235	7	7	1990	
• Dornier DO-28 D-2	3	2	1981	
• Gulfstream II/III	2	1	1976	
• Mystère-Falcon 50	1	1	1980	
• Mystère- Falcon 20	2	2	1968	Electronic countermeasures
Total	48	46		

Training and Liaison Aircraft

Model	Quantity	In service	Since	Notes
Jet trainers				
• Cessna 318 (T-37)	14	14	1996	
• Alpha jet	22	22	1979	
• Beechcraft T-34C	12	10	1977	
• CM-170 Fouga Magister	22	22	1964	
Subtotal	70	68		
Piston/Turbo-prop				
• T-6C Texan	24	24	2011	
• AS-202/18A Bravo	10	10	1978	
• CAP 10/232	9	9	1983	Aerobatic team
Subtotal	43	43		
Total	113	111		

Morocco

Helicopters					
Model	Quantity	In service	Since	Notes	
Attack helicopters					
• SA-342 Gazelle	22	22	1976	Of which 6 with gendarmerie	
Heavy transport					
• CH-47C Chinook	8	8	1979		
Medium transport					
• SA-330 Puma	25	25	1976	To be upgraded	
• AB-205	31	31	1969		
• AB-212	5	5	1973		
• AS-365 Dauphin II	2	2	1983	With gendarmerie	
Subtotal	63	63			
Light transport					
• Alouette II / III	5	5	1981	With gendarmerie	
• Bell 206 JetRanger	26	16	1975		
• SA-315B Lama	3	3		With gendarmerie	
Subtotal	34	24			
Naval Attack					
• AS-565MB Panther	3	3	2003		
Total	130	120			
Future procurement					
• CH-47D Chinook	3				
• SA-330 Puma	25			To be upgraded	

Miscellaneous Aircraft					
Model	Quantity	In service	Since	Notes	
Reconnaissance					
• RF-5	2	1	1981	Also listed under Combat Aircraft	
• C-130H	2	2	1974	Also listed under Transport Aircraft	
Tanker					
• KC-130	2	2	1974	Also listed under Transport Aircraft	
Electronic warfare					
• Mystère 20F	2	2	1968	Also listed under Transport Aircraft	

Morocco

Model	Quantity	In service	Since	Notes
Maritime surveillance				
• BN-2T Defender	7	7	1993	Possibly in fishery protection role
Fire fighters				
• CL-415	3	3	2011	
UAVs and mini-UAVs				
• Skyeye R4E-50	+	+	1990	
Future procurement				
• CL-415	2			Being delivered

Advanced Armament

Air-to-air-missiles

AIM-9J/M Sidewinder (350), R-530, R-550 Magic (300), Super 530D

Air-to-ground-missiles

AGM-65 Maverick (380), HOT

Reconnaissance/targeting pods

COR-2/Hares reconnaissance pods, Litening-2 targeting pods, Damocles targeting pods, ELT/555 ECM pod, ATLAS targeting pod

Future procurement

AIM-120 AMRAAM (30), AIM-9X Sidewinder, AGM-88 HARM (20), JDAM (50), GBU-24 guided-bombs (20), GBU-12 guided-bombs (150), GBU-10 guided-bombs (50), AAQ-33 SNIPER pods (6), DB-110 reconnaissance pods (4), AGM-65D Maverick (28), AGM-65H Maverick (45), Enhanced GBU-12 (120), AASM guided-bombs

Note: Number in parentheses refers to the quantity of missiles purchased, not to current inventory levels.

Air Force Infrastructure

Military airfields **10**

Agadir, Casablanca (Nouasseur), Fez, Kenitra, Larache, L'Youn, Marrakech, Meknes, Rabat, Sidi Slimane

Morocco

Air Defense Forces

Surface-to-Air Missiles

Model	Batteries	Launchers	Since	Notes
Light missiles				
• Tunguska-M1 (SA-19)		12	2008	
• MIM-72A Chaparral		37	1977	
Total		49		
Shoulder-launched missiles				
• SA-7 (Grail)		70	1978	
Future procurement				
• MIM-23B Hawk	9			From US drawdown

Other Air Defense Systems

Model	Quantity	In service	Since	Notes
Short-range guns				
• 37mm M-1939	100	14	1972	
• 23mm ZU 23x2	90	30	1986	
• 20mm M163 Vulcan SP	115	115	1983	
• 20mm M167 SP	40	40	1993	
Total	345	199		
Radars				
• AN/TPS-43	8	8		
• AN/TPS-63	8	8		Upgraded
Future procurement				
• AN/MPQ-64	8			Under negotiations

Morocco

Navy

Combat Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
Missile frigates			
• Tarik Ben Ziyad (Sigma class)	3	98/2,100	Helicopter pad MM40 Exocet SSMS VL-MICA SAMs 76mm Guns MU90 torpedoes
• Floreal	2	93.5/2,950	1 AS-565 Panther helicopter 2xMM38 Exocet SSMS 2x2 Simbad SAMs 1x76mm gun 2x20mm guns
• Descubierta	1	88.8/1,233	4xMM38 Exocet SSMS 1x8 Aspide SAMs 6x324mm torpedoes 1xSR 375 ASW mortar 1x76mm gun 1x40mm gun
Subtotal	6		
MFPBs			
• Lazaga	4	58.1/524	4xMM38 Exocet SSMS 1x76mm gun 1x40mm gun 2x20mm guns
Gunboats			
• Okba class (PR-72)	2	57.5/375	1x76mm gun 1x40mm gun
• Cormorant class (P-200D Vigilance)	6	58.1/425	1x40mm gun 2x20mm guns
Subtotal	8		
Total	18		
Future procurement			
• FREMM frigate	1	142/5,800	MM40 Exocet SSMS Aster 15 SAMs 76mm Guns MU90 torpedoes

Morocco

Patrol Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Bir Anzarane (OPV 70)	1	70/800	Helicopter pad 1x 76mm gun 1x 40mm gun 2x 14.5mm MGs
• Rais Bargech (OPV 64)	5	64/580	1x40mm gun 1x20mm gun 4x14.5mm MGs
• Osprey mk II	4	54.8/475	2x20mm guns
• Al Wacil/Erraid (P-32)	10	32/74	6 Al wacil class, 4 Erraid class 4 with customs/ Coast Guard 1x20mm gun
• VCSM (RPB 20)	10	20/40	RIHB launch
• Arcor 53	15	16/17	With customs/Coast Guard 1x12.7mm MG
• Arcor 46	18	14.5/15	With customs/Coast Guard 2x12.7mm MGs
Total	63		
Future procurement			
• OPV 70	3	70/800	Delivery suspended

Landing Craft

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• Batral LSM	3	80/750	140 troops, 12 vehicles Helicopter pod 2x81mm mortars 4x40mm guns
• CTM (LCM)	1	23.8/59	200 troops
• Newport class LST	1	159.2/8,450	400 troops, 500-ton vehicles 4xLCVP/LCPL boats 1x20mm Phalanx gun
Total	6		

Morocco

Auxiliary Vessels

Type	Quantity	Length (m.)/ displacement (t.)	Notes/armament
• al-Aigh support ship	1	77/1,500	2x14.5mm MGs
• Agor survey ship (Robert D. Conrad)	1	67.3/1,370	
• Divers support ship	1		
• Dakhla support ship	1	69/2,160	
• Griffon 500TD hovercraft	2	8.4m	With Coast Guard/ ministry of fishing
• SAR craft	4	19.4/40	With Coast Guard/ ministry of fishing
• SAR craft	2	20.7/70	With Coast Guard/ ministry of fishing
• SAR craft	2	15.75/ 68	With Coast Guard/ ministry of fishing

Naval Infrastructure

Naval bases **9**

Agadir, Casablanca, Dakhla, al-Hoceima, Ksar Sghir, Kenitra, Safi, Tangier, Tantan

Ship maintenance and repair facilities

156-meter dry-dock at Casablanca, repair ships of up to 10,000 dwt; facility for minor repairs at Agadir

Major Non-Governmental Paramilitary Forces

Personnel

	Regular	Reserves	Total
SPLA	5,000	5,000	10,000

Morocco

Equipment				
Organization	Category	System	Quantity	Notes
SPLA	Tanks	• T-62	20	
		• T-55	50	
		• SK-105	4	
		Total	74	
	APCs	• AML-60/90	8	
		• BMP-1	60	
		• EE-9	20	
		• Panhard M3	5	
		Total	93	
	Artillery	• 122mm D-30	12	
	MRLs	• 122mm BM-21	10	
	MORs	• 160mm	40	
		• 120mm	60	
ATGMs	• 9K111 (AT-3)	40		
AD	• Strela-2M	100		