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### North America

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# Chapter One

## North America

### US SECURITY AND DEFENCE POLICY

In February 2006, the US Department of Defense (DoD) released its latest Quadrennial Defense Review (QDR) Report. (See past issues of *The Military Balance*.) The report draws on lessons from combat and nation-building operations in Afghanistan and Iraq, humanitarian efforts in Asia and the Pacific, and global counter-terrorism efforts. While there is renewed emphasis in the QDR on joint service operations, the report's input from coalition partners and allies is reflected in its stress on the need for international and inter-agency cooperation. However, the requirement to counter terrorist networks and asymmetric threats has fostered a view that static alliances do not necessarily provide the sole solution to joint ventures; the Pentagon is, rather, 'shifting emphasis' to meet the 'new strategic environment' by focusing on 'dynamic partnerships'.

The QDR – based on the National Defense Strategy of March 2005 – was released in conjunction with the DoD's 2007 fiscal year spending request (see page 19) and just after a strategic policy document entitled the 'National Military Strategic Plan for the War on Terrorism'. While the QDR is indeed framed within the context of the 'Global War on Terror' – the first sentence of the document's introduction notes that the 2006 review was conducted 'in the fourth year of a long war' – the report nonetheless represents a shift in US defence thinking.

The 2006 QDR continues the departure, initiated by its 2001 predecessor, from a threat-based posture to one which is capability and effects-based, recognising that armed forces must be able to cope with threats emanating from 'dispersed non-state networks' rather than from the traditional military forces of an adversarial nation-state. Throughout the document, much stress is laid on the utility of joint forces which are not only capable of expeditionary operations, but also capable in post-conflict scenarios. In general, the report aims for a more flexible and adaptable force that will give policymakers more options to engage in full-spectrum operations, ranging from high-intensity warfare to disaster relief and peace support operations. Other notable elements of the report include

increased emphasis on interoperability and strategic layering of joint operations, expansion of special operations forces; additional training in language skills and cultural awareness for regular units; improvements in global precision strike capability to counter conventional threats; and a greater emphasis on Command, Control, Communications, Computers, Intelligence, Surveillance, and Reconnaissance (C4ISR) capabilities.

### FORCE DEVELOPMENTS

#### US Navy

The QDR and recent budgetary statements call for an enhanced capability that is both effects-based and delivered primarily within the littoral environment. The expeditionary and littoral focus is illustrated by increasing numbers of special forces, the creation of a naval riverine capability and an acceleration in the building programme of the Littoral Combat Ship (LCS). The first LCS, USS *Freedom*, is due to be launched in 2006, and the second in 2007. Moreover, in the domestic sphere the US Navy is carrying out more joint operations with the US Coast Guard (USCG). Command of the USCG has now moved to the Department of Homeland Security and the creation of Maritime Security and Safety Teams within the USCG with interdiction and counter-terrorism missions illustrates the new emphasis on homeland security.

There remains a commitment to deliver increased effect through 'strike' – in relation to riverine as well as more established operational scenarios – and the number of available independent strike groups has been increased from 19 to 36 with 11 Carrier Strike Groups. Operational readiness is also emphasised in the Fleet Response Plan (FRP), initially tested on Exercise *Summer Pulse* in 2004, which provide for the immediate availability of six Carrier Strike Groups and a further capacity to surge to eight within 90 days. The Maritime Prepositioning Force Future (MPF(F)) also receives support, despite changes in numbers and platform types, with a procurement mix of ten vessels within the next five years.

Further development of the submarine force is underlined by the re-rolling, by 2007, of four *Ohio*

class ballistic missile submarines into special forces and conventional guided missile platforms, coupled with a return to steady state production of two attack submarines per year by no later than 2012. In developing a rapid global strike capability, the QDR also tasks the navy to deploy within two years an initial capability to deliver precision guided conventional warheads using *Trident* Submarine Launched Ballistic Missiles.

The Pentagon is also changing the strategic force positioning and posture of US naval forces to reflect political, economic and military developments in the Pacific – this includes the provision of six operationally available carriers and the repositioning of up to 60% of the submarine force.

### US Marine Corps (USMC)

The USMC continues to enhance its combat capabilities, emphasising the skills of the individual soldier and the value of small units in low intensity and irregular operations. This approach is a development of work carried out over the past four years, during which the USMC has expanded its range of front line missions in counter-terrorism and reconstruction. (See pp. 411–420 in *The Military Balance 2005–2006*.) The QDR confirmed the establishment of a Marine Corps Special Operations Command (MARSOC) operating within US Special Operations Command. This led, in late February 2006, to the deactivation of 4 Marine Expeditionary Brigade (Anti-Terrorism) and the reassigning of its subordinate units to other commands. Headquartered at Camp Lejeune, North Carolina, MARSOC has five subordinate commands: the Foreign Military Training Unit, two Marine Special Operations Battalions (east and west coast), the Marine Special Operations Support Group and the Marine Special Operations School.

The USMC aviation wing took delivery of the first MV-22 *Osprey* Block B tilt-rotor aircraft on 8 December, as part of the USMC's order of 360 MV-22s. This aircraft, to be stationed at Marine Corps Air Station New River in North Carolina, is the first V-22 built for service in a combat unit. The Defense Acquisition Board granted full-rate production of 48 aircraft per year in September following operational evaluation testing by the marines, although the next tranche of *Ospreys* has been delayed due to a funding shortfall. Meanwhile, the development of the F-35B short-takeoff- and-vertical-landing variant of the Joint Strike Fighter (JSF) optimised for USMC use, has been delayed by two years due to a weight problem.

### US Army

The US Army is emphasising self-sustainability and irregular warfare capabilities in its Brigade Combat Teams (BCTs). There is to be a 12% increase in infantry capacity as well as intelligence support to infantry units, an active duty component rotary winged aircraft, a 25% increase in light armour units, a 38% increase in reconnaissance capacity, 50% more Joint Fire Liaison Teams, and a 30% increase in reserve intelligence assets. Moreover, there are continuing efforts to rebalance capabilities by creating modular brigades in all three army components: 117 in the regular army (42 BCTs, 75 support); 106 in the National Guard (28 BCTs, 78 support); and 58 support brigades in the army reserve. This enhancement, which is due to be in place in 2007–2008, represents a 46% increase in available combat power. The modular concept gives the brigades the capability to be fully integrated for operations with any US formation in any theatre.

Army transformation is not focused solely on unit level organisations: the QDR emphasized the need to enhance the cultural and language training of individual ground troops. The army wants soldiers capable of training, mentoring and advising foreign security forces worldwide, as well as conducting effective counterinsurgency campaigns.

### US Air Force (USAF)

In keeping with its pursuit of global mobility and power projection, the USAF will complete the C/KC-130 multi-year contract to procure an additional 18 C-130Js (in addition to 8 Marine Corps KC-130Js). Given the age of much of the air tanker fleet, priority is being given to the procurement of new air-to-air refuelling assets, together with a programme for a new intra-theatre light cargo aircraft. The air force is also emphasising global strike capabilities by modernising its B-52, B-1 and B-2 fleets with financial resources generated by reducing the B-52 force to 56 aircraft. It has also launched a one-year study to develop a new land-based penetrating long-range weapon option – that could be fielded by 2018 – to supplement its existing force of bomber aircraft.

The QDR unveiled plans to develop a new bomber by 2018. Previous long-term planning had not envisaged procuring a new long-range bomber until around 2038, but with the QDR also stating that the USAF 'has set a goal of increasing its long-range strike capabilities by 50 per cent and the penetrating

component of long-range strike by a factor of five by 2025' this – as well as the retirement of some B-52s – suggests that the USAF expects to acquire around 80 new bombers. The one-year study noted above will also consider whether this new long-range strike asset will be manned or unmanned.

Released on 7 December 2005, a new USAF mission statement focused on the delivery of 'sovereign options for the defence of the United States of America and its global interests – to fly and fight in Air, Space, and Cyberspace'. The mission statement included two new concepts. Firstly, the term 'sovereign options', which replaces 'support and defend', reflects an implicit extension of the role of the military beyond national defence into humanitarian assistance and global offensive strike; and secondly, 'cyberspace', which includes network security, data transmission and the sharing of information. The air force regards itself as a natural leader in cutting edge technologies and it has long been vested with the supervision of military space and other technological assets. The USAF will further enhance those capabilities with more research into, and acquisition, of Unmanned Aerial Vehicles (UAV). Additional emphasis will be placed on enhancing the joint operational capability – C4ISR, airlift and global precision strike – that have proved a critical enabling factor in Operations *Enduring Freedom* and *Iraqi Freedom*.

### Special forces

The perceived success of special forces in recent operations has given impetus to a significant enhancement of this area. As well as MARSOC (detailed above), there is to be a one-third increase in special forces Battalions beginning in FY 2007. Furthermore, an Air Force UAV squadron will be seconded to US Special Operations Command (SOCOM) and the navy will see a growth in Sea-Air-Land (SEAL) teams and riverine capabilities. There is also to be a 33% increase in resources for psychological operations and civil affairs within SOCOM.

### Overall strength changes

The army's active strength is to stabilise at 482,400 by 2011, with the reserve component at 533,000. The Marine Corps will stabilise at 175,000 active and 39,000 reserve component troops. The air force's Air Expeditionary Force (AEF) concept has proved successful, increasing deployable personnel by 20% (51,000) over the last four years.

### National Guard

The National Guard continues to develop its counter-Chemical Biological Radiological Nuclear (CBRN) capabilities. Twelve Enhanced Response Force Packages (ERFPs) for chemical, biological, radiological, nuclear and high-yield explosive attacks are to be created, and the number of 22-man WMD Civil Support Teams is to be increased to 55. Additionally, \$1.5 billion will be allocated for the development of 'broad spectrum' countermeasures against a biological terror attack.

### DEPLOYMENTS

Operations continue in **Iraq** and **Afghanistan** (see pages 165 and 218). In Iraq, the current total of 138,000 US troops is expected to fall in mid-2006, with emphasis given to reductions in National Guard deployments; the intention is to reduce troop numbers in line with an assumption of security responsibilities by indigenous forces. In Afghanistan, the current total of some 20,000 will reduce by 2,500 as NATO increases its force levels this year.

### HUMANITARIAN RELIEF OPERATIONS

From October 2005, US forces in Afghanistan were committed to relief operations in Pakistan-controlled Kashmir, following the 8 October earthquake centered on Balikot (see page 221). These US forces delivered over 532 tons of humanitarian assistance and 53 tons of medical supplies in the first two weeks of relief efforts. The USS *Pearl Harbor*, *Cleveland* and *Tarawa* joined marine, air force and army units on *Operation Lifeline*. The rapid response preceded more coordinated efforts deploying command elements, medical facilities and engineer teams to construct winter shelters. By 20 January US CH-47s had flown more than 3,400 missions and carried 8.3 million tons of humanitarian aid.

US forces also assisted rescue efforts after a 17 February mudslide in the Philippine province of Southern Leyte hit Guinsaugon and several other villages. The mudslide was reported to have killed over 130 people, with some 900 missing. Forces arriving in the Philippines to take part in the *Balikatan* exercise with Philippine troops were diverted to the scene. At its height, US involvement included personnel from the forward deployed Amphibious Ready Group, with troops of 31 Marine Expeditionary Unit, the ships USS *Essex*, USS *Harpers Ferry* and USS

Curtis Wilbur, and air force elements from Pacific Air Force stations in Japan, Guam and Hawaii.

## DOMESTIC DEVELOPMENTS

### Hurricane Katrina

The August 2005 landfall of Hurricane Katrina on the Gulf Coast states of Florida, Louisiana, Mississippi and Alabama cost 1,032 lives and an estimated \$130bn in damage. The Department of Homeland Security, one of whose tasks is the management of large-scale crises, found the coordination of resources and manpower between state and federal jurisdictions problematic. Issues arising over activation status and the federal

nature of the National Guard, as well as coordination of NGOs with government workers, reportedly hindered response efforts. In dealing with the disaster, the US mobilised 50,000 National Guard personnel and 22,000 active duty troops, including the US Army Corps of Engineers. The DoD deployed a domestic task force, which made available a fleet of approximately 50 helicopters and the hospital ship USNS *Comfort*, to support the Federal Emergency Management Agency's operations, and delivered essential supplies to areas in Mississippi and Louisiana. Meanwhile, the US Coast Guard rescued more than 33,000 people. Constant helicopter surveillance provided an information and communication bridge to isolated communities

Table 1 Selected US Training and Operational Activity 2005–06

| Date             | Title   | Location                      | Aim  | Principal Participants/Remarks   |
|------------------|---|-------------------------------|--|--|
| 22–30 Mar 2005   | <i>Arabian Gauntlet 2005</i>                      | Persian Gulf                  | Multilateral air, surface and mine countermeasure exercise designed to enhance interoperability in maritime security operations              | US, Pakistan, Kuwait, Saudi Arabia, Qatar, Oman, Iraq (first time observer); more than 3,000 personnel and 19 ships                                  |
| Oct 29 2005      | <i>Amphibious Landing Exercise (PHIBLEX) 2006</i> | Philippines                   | Bilateral training exercise designed to increase interoperability between US and Philippine armed forces, particularly Marine Corps elements | US Marine Corps, Philippine Marine Corps   |
| 1–10 Nov 2005    | <i>Vigilant Shield</i>                            | Alabama, USA                  | Homeland Security: reaction to detonation of radiological dispersion device (dirty bomb)   | US NORTHCOM  |
| 1–10 Nov 2005    | <i>Global Lightening</i>                          | Nebraska, USA                 | Nuclear warfare simulation; response to ballistic missile attack   | US STRATCOM  |
| 7–19 Nov 2005    | <i>Cope 05</i>                                    | India                         | Air exercise   | US, India  |
| 2 Dec 2005       | <i>Dynamic Weasel</i>                             | Shaw AFB, South Carolina, USA | Simulated combat in Southwest Asia with integrated bomber, fighter, support and intelligence-gathering aircraft                              | US Air Force   |
| Dec 2005         | <i>Trident Warrior05</i>                          | Virginia, USA                 | Virtual exercise to test naval and air force intelligence-gathering networks ability to track and identify threats                           | US, Australia, New Zealand, UK, Canada   |
| Feb 5–8 2006     | <i>Transport Exercise 2006</i>                    | Japan                         | Transport exercise designed to increase interoperability and maritime transport efficiency in support of humanitarian missions               | US and Japanese Navy   |
| Feb 2006         | <i>Keen Edge</i>                                  |                               | Bi-lateral command post exercise focused on enhancing combat readiness and interoperability in defence of aggression against Japan           | US and Japan   |
| May 2006         | <i>Combined Endeavor 2006</i>                     |                               | Exercise focused on enhancing integration and interoperability of joint/multinational C4 networks  | US European Command and 40 NATO/PfP nations  |
| Jul–Aug 2006     | <i>Sea Breeze 2006</i>                            | Ukraine                       | Naval exercise   | US European Command, Ukraine, Bulgaria, Denmark, Spain, Romania, Germany, Croatia, Turkey; Russia, Azerbaijan, Moldova (observers)                   |
| July 2006        | <i>Rescuer 2006</i>                               |                               | Computer-assisted exercise testing multi-national disaster preparedness in consequence management scenario                                   | US, Azerbaijan, Armenia, Bulgaria, Georgia, Germany, Kyrgyzstan, Kazakhstan, Moldova, Romania, Russia, Tajikistan, Turkmenistan, Ukraine, Uzbekistan |
| Oct 2005–ongoing | <i>Operation Lifeline</i>                         | Pakistan                      | Provide humanitarian relief and reconstruction assistance to victims of earthquake   | US and partner countries   |



throughout the recovery effort. The inability of local police forces to cope with civil unrest led to the use of military forces as security guarantors after a form of martial law was declared in New Orleans in the days after the hurricane struck.

### Overstretch

An October study published by the Congressional Budget Office stated that deployments to Iraq and Afghanistan over the previous two years had averaged 175,000 to 200,000 personnel (with 160,000–180,000 for *Operation Iraqi Freedom* alone). The report continued by saying that ‘the sustainable force consistent with DoD’s goals is two brigades in Afghanistan (15,000 to 20,000 personnel) and 13 brigades in Iraq (123,000 personnel). As such, the demands made on the force by *Operation Enduring Freedom* (OEF) and *Operation Iraqi Freedom* (OIF) are more than the available US land forces can sustain while meeting the Army’s and DoD’s benchmarks.’ Of the 138,000 personnel currently in Iraq, the army is facing the greatest overstretch, with 99,000 soldiers deployed (130,000 total in Iraq, Afghanistan and Kuwait) with some on their third rotation. This, coupled with falling recruitment and a drop in young officer numbers, has led to an organisational overhaul within brigades

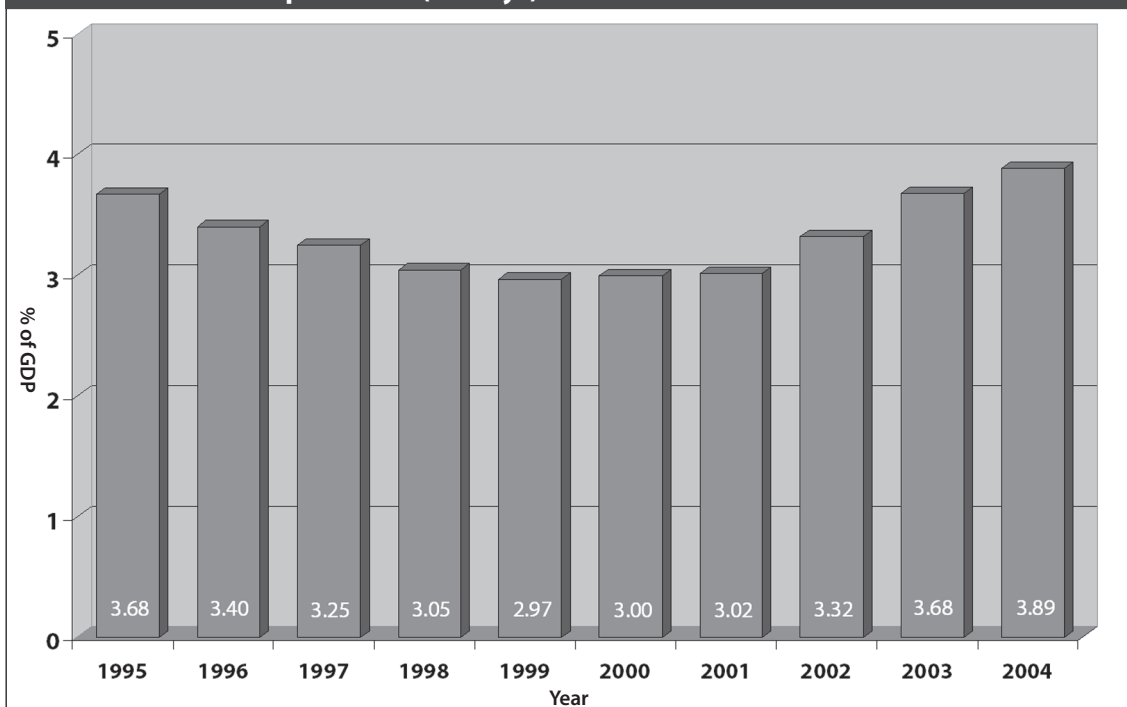
and the voluntary transfer of naval and air force personnel to the army to take on army logistics and combat support roles in Iraq, as well as the institution of incentive programmes for navy and air force officers to move to the army.

### UNITED STATES – DEFENCE ECONOMICS

The economic expansion that began in the second half of 2003 continued at a solid pace in 2004, when GDP growth reached 4.4%, and expectations for 2005 were equally positive before the impact of higher oil prices and the Autumn hurricanes moderated growth to 3.6% for the year. There has so far been little sign that increases in energy prices are feeding through into the general level of wages or consumers prices, although a moderate acceleration in core prices is expected during the next few quarters. The Organisation for Economic Co-operation and Development has suggested that the outlook for 2006 remains favourable, with a robust GDP growth of 3.5%, healthy private consumption, rising real incomes and healthy growth in business expenditure.

In its 2005 Article IV review of the US economy, the IMF also highlighted the extremely low level of national savings as a key policy challenge. As the

Table 2 US Defence Expenditure (Outlays) as % of GDP



domestic savings rate has fallen, foreign investment and corporate profits have increasingly had to finance government and household spending, leaving the economy vulnerable to any change in confidence by overseas investors. Tax cuts enacted between 2001–03 and increased security-related spending since 9/11 have resulted in a growing federal budget deficit, compared to the surplus that existed as recently as 2000. In addition to the government's fiscal deficit, sustained strong growth in real imports of consumer goods and higher oil prices have led to a ballooning of the trade deficit, which reached 6.5% of GDP in 2005 and is forecast to grow to 7% of GDP by 2007. While there has so far been little reluctance by the rest of the world to finance the twin deficits of the US, the IMF warned that the imbalances posed 'systemic risks', particularly if productivity growth were to falter.

On the fiscal front the news was rather mixed. At 2.6% of GDP the federal deficit for 2005 showed a noticeable improvement over both expectations and the previous year, when it measured 3.6% of GDP. The surprising improvement was largely the result of a substantial growth in corporate income tax revenue, which the IMF has suggested may reflect the unwinding of factors that had depressed tax collections in the aftermath of the 2001 equity bubble and as such may not be repeated. The increase in revenue was sufficient to offset the increased outlays on military operations in Afghanistan and Iraq, US\$75bn in 2005, and US\$62bn which Congress approved for relief and reconstruction following hurricanes Rita

and Katrina. However, projections suggest that the federal deficit will continue to fluctuate around 3% of GDP (in national account terms), particularly given expenditure increases in 2006 resulting from the implementation of a 10-year US\$1.2trn prescription-drug package.

In the longer term, sustained pressure on the government's budget is likely to limit the funding available for discretionary outlays on defence and security, via either the national defence budget or the annual supplemental appropriations used to fund the 'Global War on Terror' (GWOT). Soon after taking over from Alan Greenspan as the Federal Reserve Chairman in 2006, Ben Bernanke warned that persistent deficits needed to be curbed, particularly in light of the looming fiscal problems associated with an ageing population. The demographic shift becomes acute after 2008–09 when the baby-boomer generation begins to retire and collect its Social Security and Medicare benefits.

In addition to the fiscal and trade imbalances, the state of the housing market is also becoming a cause for concern. In order to maintain their standard of living, consumers have, in recent years, been spending in excess of their income by converting rising house prices into cash by means of outright home sales, home equity loans and cash-out refinancing. According to the Federal Reserve Board, this practice, known as Mortgage Equity Withdrawal (MEW) has soared from \$93bn in 1993 to \$229bn in 2000 and \$640bn in 2004. Indications are that the pace did not let up in

**Table 3 National Defense Budget Authority, FY2005–FY2011**

| (\$million)                                 | 2005 <sup>a</sup> | 2006 <sup>b</sup><br>Estimate | 2007<br>Request | 2008<br>Plan   | 2009<br>Plan   | 2010<br>Plan   | 2011<br>Plan   |
|---|-------------------|-------------------------------|-----------------|----------------|----------------|----------------|----------------|
| Military Personnel                          | 121,279           | 115,824                       | 113,147         | 114,602        | 117,879        | 121,166        | 124,589        |
| Operations & Maintenance                    | 179,210           | 178,346                       | 152,646         | 159,339        | 165,260        | 171,926        | 174,523        |
| Procurement                                 | 96,613            | 86,185                        | 84,197          | 99,776         | 108,622        | 111,708        | 117,722        |
| R, D,T & E                                  | 68,826            | 71,046                        | 73,444          | 74,388         | 75,128         | 73,232         | 70,626         |
| Military Construction                       | 7,260             | 8,936                         | 12,613          | 12,872         | 12,592         | 11,957         | 10,644         |
| Family Housing                              | 4,101             | 4,439                         | 4,085           | 3,182          | 3,108          | 2,960          | 2,967          |
| Other                                       | 6,637             | 3,374                         | 1,118           | 31             | 1,179          | 949            | 3,149          |
| Estimated future emergency funding for GWOT |                   | 70,000                        | 50,000          | n.a.           | n.a.           | n.a.           | n.a.           |
| <b>Total Department of Defense</b>          | <b>483,926</b>    | <b>538,150</b>                | <b>490,959</b>  | <b>464,190</b> | <b>483,767</b> | <b>493,897</b> | <b>504,221</b> |
| Department of Energy (defence-related)      | 17,890            | 18,101                        | 17,017          | 16,238         | 16,608         | 16,388         | 16,736         |
| Other (defence-related)                     | 3,980             | 5,564                         | 4,758           | 4,794          | 4,878          | 4,979          | 5,150          |
| <b>Total National Defense</b>               | <b>505,796</b>    | <b>561,815</b>                | <b>513,025</b>  | <b>485,222</b> | <b>505,253</b> | <b>515,264</b> | <b>526,107</b> |

<sup>a</sup> Including US\$78.8bn in enacted supplements for Global War on Terror

<sup>b</sup> Including US\$55.7bn in enacted supplements for Global War on Terror

2005 and as the pace of MEW has risen, the consumer savings rate has fallen from an average of 6–12% of disposable income between 1959 and 1992 to –0.7% in January 2006. The housing market has now begun to show clear signs of softening, suggesting that without the funds raised from MEW, consumers will have to increase their savings rate, thereby reducing spending, which has been one of the major engines of economic growth in recent years.

The Bush administration has pledged to cut the swollen federal budget deficit in half within five years, but despite the unexpected increase in tax revenues in 2005, no significant measures have been introduced to achieve that goal. Indeed, the published plan outlining how the budget deficit will be improved does not include three vital elements: it assumes that President Bush's tax cuts will be temporary, despite the fact that he has indicated a desire to make them permanent; no provision for future war costs are included; and the projections do not include the borrowing that would be required for the president's proposal to establish private investment accounts for Social Security beginning in 2009. The non-partisan Congressional Budget Office calculates that the federal government will run baseline deficits totalling US\$832bn over the coming decade; however, this figure jumps to over US\$3trn once tax cuts and other factors are considered.

### QUADRENNIAL DEFENSE REVIEW (QDR)

While the QDR, presented to Congress on 6 February along with the Pentagon's Fiscal Year (FY) 2007 budget request, may have contained a number of important adjustments to US defence strategy (see page 13), it avoided addressing some of the major budget problems facing the Department of Defense in the coming years. Before publication, there had been speculation that the military's deteriorating budget position could result in the cancellation, or reduction in size, of certain major equipment programmes in the QDR. Such is the cost of the looming 'bow wave' of equipment modernisation that even some of the armed services' most prized programmes such as the F-22 *Raptor* aircraft, DD(X) Destroyer or next-generation aircraft carrier were considered under threat. In November 2005, the Pentagon's 'Selected Acquisition Report' revealed that the future development and acquisition costs of the DoD's top 85 programmes had jumped from US\$1.47trn to US\$1.53trn in the third quarter of 2005 alone. The main culprit for the rise in costs is the US Army's Future Combat Systems (FCS)

programme, which soared 63% in cost from US\$98.8bn to US\$161bn. The report said that the restructuring of the FCS programme would add US\$54bn to its total cost, while the four-year extension to the programme would add an additional US\$8.2bn.

However, despite stressing that the US military will in future face uncertain and unpredictable threats based upon irregular, catastrophic or disruptive 'challenges', the QDR made little alteration to the long list of equipment programmes currently under development, proposing instead some potentially significant reductions in end strength and force structure. The number of weapons programmes scaled back or terminated was modest: the J-UCAS unmanned combat aircraft, the E-10 surveillance aircraft and the B-52-H standoff jammer. Indeed, where procurement programmes are concerned, the QDR highlighted specific areas where additional resources will be required. In aerospace terms, the US Air Force will acquire a new long-range bomber by 2018, some two decades earlier than previously planned, and there will be faster deliveries of *Predator* and *Global Hawk* unmanned aerial vehicles (UAV) with the goal of increasing long-range strike capability by 50% and, by 2025, the penetrating component of long-range strike by a factor of five. The QDR anticipates that approximately 45% of the future long-range strike force will be composed of UAV. The US Navy will increase the size of its surface fleet and accelerate the Littoral Combat Ship programme while pushing ahead with the acquisition of the first eight Maritime Prepositioning Force (Future) family of ships and return to the steady production rate of two attack submarines per year, from the current rate of one per year, by no later than 2012. The QDR also outlined plans for dozens of new vessels and equipment for a new riverine force.

In terms of end strength and force structure, the QDR outlined a series of significant reductions:

- about 40,000 full-time equivalent military personnel will be cut from the air force
- the number of B-52H bombers will be reduced from 95 to 56
- 50 *Minuteman* ICBMs will be retired
- the retirement of F-117 fighter and U-2 reconnaissance aircraft will be accelerated.

While Defense Secretary Donald Rumsfeld cautioned that the QDR should not be seen as 'a new menu for programme adjustments' and acting Deputy Defense Secretary Gordon England referred to the review as more of a 'midcourse correction'



than a major shift in defence policy, the QDR did little to make the DoD's long-term plans more realistic and affordable. Although it outlined 'transformational' areas where new investment will be required, there were no corresponding cuts in more traditional expenditure areas, suggesting that difficult budget decisions regarding expensive equipment programmes have yet to be made.

### NATIONAL DEFENCE BUDGET FY2007

The Bush administration's federal budget request for FY2007 included a nominal 6.1% (3.8% in real terms) increase in funds for national defence, excluding supplemental funds for the GWOT. The Future Years Defense Program (FYDP) published at the same time indicates that planned national defence budget authority (excluding supplementals) will increase from US\$463bn in FY2007 to US\$526bn in FY2011, an average annual increase of 2–4%, a significantly lower rate of increase than over the past five years. Since coming to office in 2001, President Bush has increased the non-war national defence budget by about 52% in nominal terms or 27% after taking account of inflation.

However, owing to the size and allocation of recent supplemental appropriations it is becoming increasingly difficult to assess the true budget position of the US armed forces. Commentators have noted that certain items included in the FY2005 and FY2006 supplementals, would have occurred whether the US had been involved in overseas military operations or not and that this is obscuring analysis of the long-term funding requirements of the DoD. Particular attention has been drawn to the Army Modularity Plan (AMP), intended to create new, more flexible and self-sufficient brigade-sized units, which received US\$5bn in both the FY2005 and FY2006 supplementals. Under normal circumstances a project of this nature would be funded from the regular defence budget, and although this will begin in FY2007, it illustrates how funds from supplementals driven by the GWOT are being used for purposes that, it could be argued, are not directly war-related costs.

The fact that a certain amount of the funding designated for war-related operations is being used to cover normal peacetime force structure, readiness and modernisation costs makes it difficult to analyse the topline projections outlined in the FYDP. On the face of it, the modest increases outlined for FY2008–

11 would only just match projected inflation, leaving the DoD with a cash shortage and some difficult decisions regarding the balance between recapitalisation, transformation and manning levels. However, should the emergency appropriations continue then substantially more funding will presumably find its way into the US military's peacetime budget than is suggested by the current FYDP. Even so, estimates by the Congressional Budget Office and the Center for Strategic and Budgetary Assessments have suggested

Table 4 Major US Research & Development FY2005–FY2007

| Service          | Designation<br>Classification | FY2005<br>Value<br>(\$m) | FY2006<br>Value<br>(\$m) | FY2007<br>Value<br>(\$m) |
|------------------|-------------------------------|--------------------------|--------------------------|--------------------------|
| <b>Joint</b>     |                               |                          |                          |                          |
| FGA              | JSF                           | 4,163                    | 4,602                    | 4,030                    |
| UAV              | Various                       | 1,135                    | 909                      | 780                      |
| tpt              | C-130                         | 171                      | 238                      | 288                      |
| <b>Army</b>      |                               |                          |                          |                          |
| hel              | UH-60 <i>Blackhawk</i>        | 106                      | 121                      | 126                      |
| hel              | Armed Recon Helicopter        | 43                       | 93                       | 132                      |
| FCS              | Future Combat System          | 2,504                    | 3,123                    | 3,745                    |
| <b>Navy</b>      |                               |                          |                          |                          |
| FGA              | F/A-18E/F                     | 121                      | 86                       | 31                       |
| AEA              | F/A-18G <i>Growler</i>        | 346                      | 393                      | 372                      |
| hel              | V-22                          | 315                      | 273                      | 295                      |
| CVN              | Carrier Replacement           | 350                      | 303                      | 309                      |
| DDG              | DDX                           | 1,130                    | 1,080                    | 793                      |
| LCS              | Littoral Combat Ship          | 450                      | 574                      | 319                      |
| SSN              | <i>Virginia</i>               | 156                      | 175                      | 169                      |
| AEW              | EC-2                          | 560                      | 631                      | 499                      |
| sat              | MUOS                          | 375                      | 462                      | 665                      |
| hel              | H-1 Upgrades                  | 168                      | 41                       | 8                        |
| SAM              | Standard                      | 110                      | 145                      | 185                      |
| EFV              | Amphibious vehicles           | 239                      | 249                      | 188                      |
| <b>Air Force</b> |                               |                          |                          |                          |
| bbr              | B-2                           | 263                      | 58                       | 191                      |
| tpt              | C-17                          | 195                      | 164                      | 173                      |
| FGA              | F-22                          | 530                      | 448                      | 584                      |
| FGA              | F-15                          | 127                      | 143                      | 125                      |
| FGA              | F-16                          | 95                       | 154                      | 148                      |
| sat              | AEHF                          | 607                      | 655                      | 633                      |
| sat              | NAVSTAR                       | 162                      | 270                      | 493                      |
| sat              | SBIRS                         | 587                      | 696                      | 668                      |
| sat              | TSAT                          | 443                      | 429                      | 867                      |
| sat              | Space Based Radar             | 67                       | 98                       | 266                      |

that executing the Pentagon's existing plans could require as much as an additional US\$50bn per year over the long term.

The mass restructuring of US military bases moved a step forward when the Base Realignment and Closure Commission approved the majority of the DoD's base closure programme while also adding a few proposals of its own. In all, the commission chairman suggested that the base closure programme would save about US\$37bn over 20 years compared to a DoD estimate of US\$47bn.

### **FY2006 Supplemental Request for Operation Iraqi Freedom (OIF) and Operation Enduring Freedom (OEF)**

In addition to the US\$55.7bn already enacted in the first FY2006 supplemental request, the DoD has submitted a request for a further US\$67.8bn in support of OIF and OEF for FY2006. If approved, total military funding in FY2006 would amount to US\$561.8bn, the highest level of national defence funding in real terms since the height of the Korean War.

Of the DoD's US\$67.8bn supplementary request, the army would receive US\$36.3bn, over half of the entire total, of which US\$18.3bn is earmarked for operations and maintenance and US\$10.3bn allocated to the procurement of replacement equipment and munitions.

The request also includes US\$3.7bn for the 'Iraq Security Forces Fund' to further develop the Iraqis' capacity to secure their country while carrying out a campaign to defeat terrorists and to neutralise the insurgency and US\$2.2bn for the security forces in Afghanistan, including US\$585mn for police training and US\$346 for police infrastructure.

### **FY2006 Supplemental Request for Hurricane Relief and Recovery**

The hurricanes that hit the Gulf Coast region caused considerable damage to DoD buildings, utility systems, roads, bridges, housing units, equipment, supplies and personal property in Alabama, Florida, Louisiana and Mississippi. Damage was particularly extensive in the coastal areas of south-western Louisiana and south-eastern Texas. This supplemental request of US\$1.8bn includes the incremental cost of continued recovery from hurricanes in the Gulf region and is in addition to the US\$7.7bn already appropriated to the DoD for FY2005, bringing total hurricane-related supplemental spending to US\$9.5bn.

**Table 5 FY2006 Supplemental Request for OIF and OEF**

| US\$ millions                           |               |
|---|---------------|
| <b>Iraq Freedom Fund</b>                | <b>100</b>    |
| <b>Afghanistan Security Forces Fund</b> |               |
| <b>2,197</b>                            |               |
| of which                                |               |
| - Military equipment                    | 787           |
| - Military infrastructure               | 751           |
| - Police equipment                      | 712           |
| - Police infrastructure                 | 696           |
| - Police training                       | 250           |
| <b>Iraq Security Forces Fund</b>        | <b>3,703</b>  |
| of which                                |               |
| - Police training                       | 585           |
| - Police infrastructure                 | 346           |
| - Police sustainment                    | 235           |
| - Police equipment                      | 194           |
| - ANA military sustainment              | 225           |
| - ANA military infrastructure           | 239           |
| - ANA military equipment                | 220           |
| - ANA military training                 | 137           |
| <b>DoD Military Operations</b>          |               |
| - Personnel                             | 9,593         |
| - Operations and maintenance            | 32,735        |
| - Procurement                           | 16,397        |
| - R&D                                   | 782           |
| - Military construction                 | 485           |
| - Other                                 | 1,863         |
| <b>DoD Total Request</b>                | <b>67,856</b> |

**Table 6 FY2006 Supplemental Request for Hurricane Relief and Recovery**

| US\$ millions            |                |
|--------------------------|----------------|
| Ship & Shipyard Repairs  | 1,047.2        |
| Military Construction    | 404.8          |
| Equipment                | 179.9          |
| Military Pay             | 69.0           |
| Facility Restoration     | 63.0           |
| Health Care Support      | 33.9           |
| Personal Property Claims | 9.9            |
| Transportation           | 2.1            |
| <b>DoD Total Request</b> | <b>1,809.5</b> |

## AIR FORCE

The air force requested US\$130.4bn in FY2007, an increase of 6.3% over the non-war FY2006 budget. Of that, US\$32.2bn is for procurement, US\$29.6bn for personnel costs, US\$39.4bn for operations and maintenance activities and US\$17.2bn for research and development.

The air force's flagship programme, the F-22 fighter aircraft, receives US\$2.2bn for the purchase of sub-assemblies and other equipment that will support the multi-year procurement of an additional 60 aircraft beginning in FY2008. At conception, the air force had planned to build up to 750 F-22 platforms, however, repeated increases in the unit cost of each aircraft has slowly cut down the final number likely to be acquired and in 2005 it was proposed that production of the platform be completely terminated in FY2009, a decision which, if implemented, would have left the air force with 170 aircraft compared to a revised target of 381 aircraft. The FY2007 budget caps the number of aircraft that will be bought at 183, with production continuing through 2010 to bridge the gap until production of the Joint Strike Fighter (JSF) begins.

The air force's largest research and development (R&D) programme, the JSF, receives US\$5.3bn in FY2007 compared to US\$4.7bn in FY2006, which includes funds for the procurement of the first five Conventional Takeoff and Landing (CTOL) aircraft for the air force and advance funding for the procurement of eight CTOL and eight Short Takeoff and Landing aircraft for the Marine Corps. In a controversial decision, the Pentagon has proposed the termination of the JSF's F-136 alternative engine being designed by Rolls Royce and General Electric. According to the DoD, the cancellation should lead to a saving of some US\$1.2bn across the FYDP, however, many in Congress are sceptical that the decision will lead to significant savings and are unhappy that there will be no competition for the JSF's power source. The Armed Services Committee has promised to pay 'careful attention' to the proposed plan.

The air force's FY2007 request includes plans to establish a dedicated special operations forces UAV squadron, equipped with *Predator* aircraft dedicated to irregular operations. The procurement budget includes US\$287mn for the purchase of 26 *Predators*, up from nine the previous year and US\$504mn for the purchase of six *Global Hawk* UAVs.

**Table 7 US Agency for International Development: International Affairs Budget**

| Budget Authority in US \$ millions                  | FY2005<br>Actual | FY2006<br>Est. | FY2007<br>Request |
|---|------------------|----------------|-------------------|
| Assistance to the New Independent States of the FSU | 626              | 509            | 441               |
| Assistance for Eastern Europe and the Baltics       | 393              | 357            | 274               |
| Peacekeeping Operations                             | 548              | 173            | 201               |
| Economic Support Fund                               | 3,915            | 2,621          | 3,214             |
| International Military Education and Training       | 89               | 86             | 89                |
| Foreign Military Financing                          | 4,995            | 4,465          | 4,551             |
| Global HIV/AIDS Initiative                          | 1,374            | 1,975          | 2,894             |
| Non-Proliferation, Anti-Terrorism and Demining      | 422              | 406            | 449               |
| International Narcotics & Crime                     | 947              | 472            | 795               |
| Andean Counterdrug Initiative                       | 725              | 727            | 722               |
| International Disaster and Famine Assistance        | 575              | 418            | 349               |
| Migration and Refugee Assistance                    | 884              | 783            | 833               |
| <b>Total International Affairs Budget</b>           | <b>23,431</b>    | <b>20,859</b>  | <b>23,720</b>     |

## NAVY

The navy's budget request for FY2007 totals US\$127.4bn (including US\$16.8bn for the Marine Corps), of which US\$38.4bn is for personnel costs, US\$36.7 for operations and maintenance, US\$31.0bn for procurement and US\$15.7 for R&D.

Since 2003 the navy has been implementing its Fleet Response Plan designed to increase the effectiveness of naval forces available for deployment, at a time when personnel numbers and available platforms are both decreasing. During this process the number of active naval personnel has been reduced by nearly 23,000 with the reduction of a further 12,000 scheduled in FY2007. Admiral Vernon Clark, Chief of Naval Operations, had originally endorsed a fleet of 375 ships but quickly distanced himself from that proposal once it became clear that the DoD would not support it. He then unveiled a shipbuilding plan that offered options ranging from a 260-ship to a 325-ship navy, claiming both crew numbers and platform numbers could be reduced through technology and by swapping crews on forward-deployed ships. In February 2006, his successor Admiral Mike Mullen finalised the 30-year

shipbuilding plan which was sent to Congress with the endorsement of Rumsfeld.

The official plan calls for a 313-ship fleet that would include 11 aircraft carriers, 88 surface combatants, 55 littoral combat ships, 48 attack submarines, four cruise missile submarines, 14 ballistic missile submarines, 31 expeditionary warfare ships, 30 logistics vessels, 12 maritime pre-positioning cargo ships and 20 support vessels. However, Mullen notes that to implement the plan the navy would need to spend US\$5bn more a year than at present on shipbuilding. From a low of 281 ships in 2005, the naval fleet will increase to 285 in 2007 and is projected to reach 304 by 2011.

The FY2007 budget includes funds for the procurement of seven ships: two DD(X) Destroyers, two Littoral Combat Ships, one *Virginia*-class submarine, one Auxiliary Dry Cargo Ship and one LHA (R) large-deck amphibious assault ship. The navy will also buy 165 new aircraft (a total that will rise to 256 by FY2011) including 30 F/A-18E/F *Hornet*, 12 E/A-18G *Growler* airborne electronic attack aircraft, 61 helicopters, 33 training aircraft and 14 MV-22 *Osprey* tilt-rotor vertical takeoff and landing aircraft for the marines.

## ARMY

The army's budget request for FY2007 totals US\$111.8bn, although, as noted above, the army is by far the largest beneficiary of additional supplemental funds appropriated for OIF and OEF. However, following frustration in Congress with the army's use of emergency supplementals for its internal reorganisation. The FY2007 request includes US\$6.4bn for AMP, mostly to cover equipment requirements essential in the conversion of large 20,000-man divisions into combat teams of around 3,500 troops.

The army has budgeted US\$3.5bn for aircraft procurement, US\$1.3bn for missiles and US\$2.3bn for weapons and tracked vehicles. The major procurement programme remains the FCS, for which US\$3.7bn in R&D funds is requested (20% more than in FY2006), although, as noted above, the total cost of the programme has ballooned from US\$9.8bn to US\$161bn. In addition to the cost of the actual family of 18 manned and unmanned vehicles that make up FCS, the Government Accountability Office has estimated that the cost of 52 essential complementary programmes will increase the overall cost of the system to US\$200bn. In 2006, Congress told the Pentagon to break up the huge programme into smaller units, and

so the possibility remains that future funding could be threatened if the Pentagon does not deliver.

Following the 2004 cancellation of the RAH-66 *Comanche* helicopter programme, the army indicated that it would allocate the money saved to other aviation programmes and this trend is continued in FY2007. Since 2004, 32 *Apache* helicopters have been remanufactured to the AH-64D *Longbow* configuration, with a further 36 budgeted for in FY2007; 53 *Chinook* CH-47s have been upgraded, with a further 21 budgeted for in FY2007; 92 *Blackhawk* UH-60 helicopters have been procured, with another 38 budgeted for in FY2007 and FY2007 will also see the procurement of the first 18 Armed Reconnaissance Helicopters (ARH) and 39 Light Utility Helicopters (LUH).

The ARH is a scout helicopter that will replace the OH-58 *Kiowa Warrior* and perform reconnaissance in combat operations. In August 2005, the army announced that it had selected a militarised version of Bell Helicopters' Model 407 for the role, and it is planned that up to 368 aircraft will be delivered by FY2011. The winner of the LUH competition to supply 322 helicopters for domestic roles such as civil search and rescue operations, damage assessment support, medical evacuation and counter-narcotics activities has yet to be awarded. Likely contenders for the programme include Bell's Model 210, AgustaWestland's A109, refurbished DynCorp UH-1 and the EADS EC-135.

## MISSILE DEFENCE

The budget for ballistic missile defence will be US\$10.4bn in FY2007, an increase from US\$8.8bn in FY2006. Just over a quarter of the budget, US\$2.8bn, is earmarked for the Ground-Based Midcourse Defense System, which is spread out from Alaska to the South Pacific, US\$1bn for the sea-based *Aegis* radar system and US\$1bn for the Terminal High-Altitude Defense System.

Following the 13% cut in the Missile Defense Agency's (MDA) budget in FY2006, and the proposal that up to US\$5bn will be shaved off the MDA budget between FY2006 and FY2011, two notable programmes are still delayed. In particular, the Kinetic Energy Interceptor (KEI), a new high-acceleration rocket, designed to intercept enemy missiles in the boost phase, which was seen as the one most likely to involve international participation and was central to the concept of a 'layered' defensive shield, is delayed by a further two years. The first KEI fire unit will not now be fielded until 2014. Likewise, the decision to defer studies of the

**Table 8 Missile Defense Budget Request  
FY2005–FY2007 US\$m**

| Research, Development,<br>Testing & Engineering | FY2005       | FY2006       | FY2007       |
|---|--------------|--------------|--------------|
| <b>Missile Defense Agency RDT&amp;E</b>         |              |              |              |
| BMD Technologies                                | 224          | 149          | 206          |
| Advanced Concepts                               | 167          | 274          | 374          |
| BMD Terminal Defence                            | 914          | 1,139        | 1,038        |
| BMD Midcourse Defence                           | 4,467        | 2,442        | 2,877        |
| AEGIS BMD                                       |              | 915          | 1,031        |
| BMD Boost Defence                               | 472          | 471          | 631          |
| BMD Sensors                                     | 567          | 278          | 514          |
| Space Tracking                                  |              | 231          | 390          |
| BMD System Interceptors                         | 272          | 209          | 405          |
| BMD Test and Targets                            | 697          | 608          | 591          |
| Other Programmes                                | 1,044        | 960          | 1,247        |
| <b>Subtotal</b>                                 | <b>7,625</b> | <b>8,783</b> | <b>7,775</b> |
| <b>Army RDT&amp;E</b>                           |              |              |              |
| <i>Patriot/MEADS</i>                            | 311          | 288          | 329          |
| <i>Patriot Improvement</i>                      | 32           | 16           | 10           |
| <b>The Joint Staff RTD&amp;E</b>                |              |              |              |
| JTAMDO  | 86           | 80           | 54           |
| O&S   | 88           | 111          | 137          |
| <b>Procurement</b>                              |              |              |              |
| <i>Patriot PAC-3</i>                            | 470          | 483          | 489          |
| <i>Patriot Mods</i>                             | 66           | 76           | 69           |
| <b>Total Missile Defence</b>                    | <b>9,066</b> | <b>9,900</b> | <b>8,844</b> |

Airborne Laser programme until after 2008 will delay the purchase of a second aircraft by two years.

## CANADA

The Canadian Armed Forces are boosting defence development and acquisition programmes in preparation for a greater strategic role in Afghanistan. In March, Canada assumed temporary command of a multinational brigade in Kandahar, pending command transfer to NATO/ISAF in June (see pages 47 and 218). Lightweight howitzers, mine-protected vehicles, and tactical and miniature UAVs will accompany 2,000 troops to the southern provinces in support of Canada's provincial reconstruction team (PRT). Further efforts to develop a light armoured reconnaissance vehicle (LARV), planned for 2010–2011, reflect Canada's expansion of responsibility in Afghanistan and desire to enhance overall light force capability.

On 1 February 2006, a new Special Operations Regiment (CSOR) was formed in line with the April 2005 Defence Policy statement announcing the formation of the Canadian Special Operations Forces Command (CANSOFCOM), designed to respond to terrorism and conventional threats to Canadian interests. The 750-strong CSOR complements the enlarged Joint Task Force, special operations aviation capability centred on CH-146 helicopters, and Joint Nuclear, Biological, and Chemical Defence unit that comprise CANSOFCOM. The unit will be capable of operating independently or in support to other joint-force structures and should have the ability to sustain an overseas deployment for up to six months.



**Table 9 US National Defense Budget Function and other selected budgets, FY1992, 1998–2007**

| FY   | National Defense Budget Function <sup>1</sup> |        | Department of Defense |        | Atomic Energy Defense Activities | Department of Homeland Security | Veterans Administration | Total Federal Government Expenditure | Total Federal Budget Surplus |
|------|---|--------|-----------------------|--------|----------------------------------|---------------------------------|-------------------------|--------------------------------------|------------------------------|
|      | BA  | Outlay | BA                    | Outlay | BA                               | BA (Gross)                      | BA                      |                                      |                              |
| 1992 | 295.1   | 298.3  | 282.1                 | 286.9  | 10.6                             | n.a.                            | 33.9                    | 1,381                                | –290                         |
| 1998 | 271.3   | 268.5  | 258.5                 | 256.1  | 11.3                             | 11.2                            | 42.7                    | 1,652                                | 69                           |
| 1999 | 292.1   | 274.9  | 278.4                 | 261.3  | 12.4                             | 13.0                            | 44.1                    | 1,702                                | 125                          |
| 2000 | 304.1   | 294.5  | 290.5                 | 281.2  | 12.2                             | 13.8                            | 45.5                    | 1,789                                | 236                          |
| 2001 | 335.5   | 305.5  | 319.4                 | 290.9  | 13.0                             | 16.4                            | 47.4                    | 1,863                                | 128                          |
| 2002 | 362.1   | 348.5  | 344.9                 | 331.9  | 14.9                             | 30.5                            | 51.9                    | 2,011                                | –157                         |
| 2003 | 456.2   | 404.9  | 437.9                 | 387.3  | 16.4                             | 30.8                            | 58.9                    | 2,160                                | –377                         |
| 2004 | 490.6   | 455.9  | 471.0                 | 436.5  | 16.8                             | 31.6                            | 60.2                    | 2,293                                | –412                         |
| 2005 | 505.7   | 495.3  | 483.9                 | 474.1  | 17.9                             | 31.9                            | 69.0                    | 2,472                                | –318                         |
| 2006 | 561.8   | 535.9  | 538.1                 | 512.0  | 18.1                             | 33.2                            | 70.3                    | 2,708                                | –423                         |
| 2007 | 513.0   | 527.4  | 491.2                 | 504.8  | 17.0                             | 35.5                            | 77.7                    | 2,770                                | –354                         |

**Notes**

FY = Fiscal Year (1 October–September)

<sup>1</sup> The National Defense Budget Function subsumes funding for the DoD, the DoE Atomic Energy Defense Activities and some smaller support agencies (including Federal Emergency Management and Selective Service System). It does not include funding for International Security Assistance (under International Affairs), the Veterans Administration, the US Coast Guard (Department of Transport), nor for the National Aeronautics and Space Administration (NASA). Funding for civil projects administered by the DoD is excluded from the figures cited here.

<sup>2</sup> Early in each calendar year, the US government presents its defence budget

to Congress for the next fiscal year which begins on 1 October. It also presents its Future Years' Defense Program (FYDP), which covers the next fiscal year plus the following five. Until approved by Congress, the Budget is called the Budget Request; after approval, it becomes the Budget Authority.

<sup>3</sup> Definitions of US budget terms: Authorisation establishes or maintains a government programme or agency by defining its scope. Authorising legislation is normally a prerequisite for appropriations and may set specific limits on the amount that may be appropriated. An authorisation, however, does not make money available. Budget Authority is the legal authority for an agency to enter into obligations for the provision of goods or

services. It may be available for one or more years. Appropriation is one form of Budget Authority provided by Congress for funding an agency, department or programme for a given length of time and for specific purposes. Funds will not necessarily all be spent in the year in which they are initially provided. Obligation is an order placed, contract awarded, service agreement undertaken or other commitment made by federal agencies during a given period which will require outlays during the same or some future period. Outlays are money spent by a federal agency from funds provided by Congress. Outlays in a given fiscal year are a result of obligations that in turn follow the provision of Budget Authority.

Table 10 Selected US Equipment Orders, FY2005–FY2007

| Classification          | Designation                    | FY 2004 |             | FY 2005 |             | FY 2006 |             |
|-------------------------|--------------------------------|---------|-------------|---------|-------------|---------|-------------|
|                         |                                | Units   | Value (\$m) | Units   | Value (\$m) | Units   | Value (\$m) |
| <b>Joint</b>            | trg JPATS                      | 56      | 317         | 57      | 348         | 69      | 451         |
|                         | FGA JSF                        |         |             |         | 118         | 5       | 1,260       |
|                         | UAV Various                    | 38      | 1,021       | 125     | 735         | 132     | 906         |
|                         | AAM AMRAAM                     | 196     | 135         | 251     | 176         | 365     | 234         |
|                         | ASM JASSM                      | 288     | 139         | 75      | 98          | 234     | 187         |
|                         | ASM JSOW                       | 405     | 141         | 420     | 144         | 397     | 125         |
|                         | PGM JDAM                       | 29,756  | 665         | 11,400  | 301         | 10,661  | 259         |
|                         | PGM JDAM                       | 32,666  | 689         | 29,757  | 665         | 11,400  | 305         |
| <b>Air Force</b>        | tpt C-17                       | 15      | 4,086       | 15      | 3,477       | 12      | 2,887       |
|                         | tpt C-130J                     | 11      | 1,113       | 8       | 943         | 9       | 1,044       |
|                         | FGA F-15E                      |         | 312         | 1       | 286         |         | 92          |
|                         | FGA F-16 Upgrades              |         | 347         |         | 414         |         | 253         |
|                         | FGA F-22                       | 24      | 4,094       | 24      | 3,766       |         | 2,197       |
|                         | SFW Sensor Fused Weapon        | 321     | 116         | 332     | 118         | 305     | 118         |
|                         | sat NAVSTAR GPS                | 3       | 327         | 3       | 313         |         | 140         |
|                         | launcher EELV                  | 2       | 414         | 4       | 773         | 4       | 936         |
|                         | sat AEHF                       |         | 78          | 1       | 521         |         |             |
|                         | sat Wideband GS                |         | 35          |         | 72          | 1       | 414         |
|                         | hel AH-64D                     | 32      | 913         |         | 698         | 36      | 794         |
|                         | hel CH-47                      | 30      | 852         | 23      | 697         | 21      | 620         |
|                         | hel UH-60                      | 43      | 506         | 49      | 680         | 38      | 740         |
| <b>Army</b>             | hel Light Utility Helicopter   |         | 2           | 12      | 70          | 39      | 198         |
|                         | hel Armed Recon Helicopter     |         |             |         |             | 18      | 141         |
|                         | MRL HIMARS                     |         | 269         |         | 288         |         | 374         |
|                         | ATGW Javelin                   | 1,038   | 253         | 300     | 56          | 300     | 104         |
|                         | MBT M1 Abrams Upgrade          | 104     | 709         |         | 448         | 23      | 536         |
|                         | AFV Stryker                    | 575     | 1,434       | 340     | 1,049       | 100     | 796         |
|                         | veh FHTV                       |         | 612         |         | 734         |         | 353         |
|                         | veh FMTV                       | 6,196   | 1,081       | 1,986   | 486         | 3,988   | 695         |
|                         | veh HMMWV                      | 5,850   | 938         | 2,173   | 391         | 3,091   | 582         |
|                         | SAM Patriot PAC-3              | 108     | 536         | 108     | 559         | 108     | 559         |
|                         | hel MH-60S                     | 15      | 390         | 26      | 581         | 18      | 548         |
|                         | hel MH-60R                     | 6       | 359         | 12      | 551         | 25      | 915         |
|                         | hel H-1 Upgrades               | 7       | 213         | 10      | 314         | 18      | 446         |
|                         | hel V-22                       | 11      | 1,299       | 11      | 1,478       | 16      | 1,996       |
|                         | ELINT EA-6B                    |         | 126         |         | 120         |         | 49          |
| <b>Navy and Marines</b> | recce E-2C Hawkeye             | 2       | 246         | 2       | 245         | 2       | 203         |
|                         | FGA F/A-18 E/F                 | 42      | 2,957       | 38      | 2,919       | 30      | 2,341       |
|                         | AEA F/A-18G Growler            |         | 8           | 4       | 332         | 12      | 905         |
|                         | trg T-45                       | 10      | 301         | 6       | 236         | 12      | 376         |
|                         | tpt C-130J                     | 4       | 324         | 5       | 428         | 4       | 298         |
|                         | SAM Standard                   | 75      | 148         | 75      | 143         | 75      | 139         |
|                         | TCM Tactical Tomahawk          | 298     | 277         | 408     | 372         | 350     | 354         |
|                         | SLBM Trident II                | 5       | 715         |         | 905         |         | 957         |
|                         | CVN Carrier Replacement        |         | 623         |         | 619         |         | 784         |
|                         | DDG AEGIS Destroyer            | 3       | 3,556       |         | 146         |         | 355         |
|                         | DDG DD(X)                      |         | 304         |         | 706         | 2       | 2,568       |
|                         | FFG Littoral Combat Ship       |         |             | 2       | 440         | 2       | 520         |
|                         | SSN Virginia                   | 1       | 2,570       | 1       | 2,367       | 1       | 2,452       |
|                         | LPD LPD-17                     | 1       | 1,226       | 1       | 1,326       |         | 297         |
|                         | LHA Amphibious Ship            |         | 149         |         | 148         | 1       | 1,135       |
|                         | RCOH CVN Refueling             |         | 331         | 1       | 1,317       |         | 1,071       |
|                         | auxiliary dry cargo ship T-AKE | 2       | 767         | 1       | 377         | 1       | 455         |

## Canada Ca

| Canadian Dollar \$ |      | 2004   | 2005    | 2006 |
|--------------------|------|--------|---------|------|
| GDP                | CS\$ | 1.29tr | 1.36tr  |      |
|                    | US\$ | 995bn  | 1,080bn |      |
| <i>per capita</i>  | US\$ | 30,596 | 32,927  |      |
| Growth             | %    | 2.8    | 2.8     |      |
| Inflation          | %    | 1.8    | 2.4     |      |
| Public Debt        | %    | 71.5   |         |      |
| Def exp            | CS\$ | 14.9bn | 15.5bn  |      |
|                    | US\$ | 11.5bn | 12.3bn  |      |
| Def bdgt           | CS\$ | 13.2bn | 13.8bn  |      |
|                    | US\$ | 10.2bn | 10.9bn  |      |
| US\$1= CS\$        |      | 1.30   | 1.26    | 1.15 |

Population 32,805,041

| Age    | 0 – 14 | 15 – 19 | 20 – 24 | 25 – 29 | 30 – 64 | 65 plus |
|--------|--------|---------|---------|---------|---------|---------|
| Male   | 9%     | 3%      | 3%      | 3%      | 24%     | 6%      |
| Female | 9%     | 3%      | 3%      | 3%      | 24%     | 7%      |

## Capabilities

**ACTIVE** 62,100 (Army 33,000 Navy 12,000 Air 17,100) Paramilitary 9,350

**RESERVE** 37,400 (Army 15,500 Navy 4,000 Air 2,600 Primary Reserve List 600 Supplementary Ready Reserve 14,700)

As of 1 February 2006, in keeping with its ongoing transformation process, Canadian Forces were organised under four new commands. Canada Command (Canada COM) is now responsible for all domestic and continental operations, while Canadian Expeditionary Force Command (CEFCOM) assumes responsibility for all international operations. Canadian Special Operations Forces Command (CANSOFCOM) is responsible for all special forces operations. Canadian Operational Support Command (CANOSCOM) has responsibility for providing support to all operational commands including, but not limited to, logistics, engineering, health services, communications and military police support.

## ORGANISATIONS BY SERVICE

### Army (Land Forces) £33,000

#### FORCES BY ROLE

1 Task Force HQ

Mech Inf 3 (bde) gp (*two with* 1 armd regt, 1 AD bty, 1 cbt engr regt, 1 arty regt, 1 recce sqn, 1 lt inf bn, 2 mech inf bn; *one with* 1 armd regt, 1 AD bty, 1 cbt engr regt, 1 arty regt, 1 recce sqn, 1 lt inf bn, 1 mech inf bn); 1 indep bn

SF 1 unit (Joint Task Force 2 – being enlarged to bn)

Spt/Engr 1 indep regt

AD 1 indep regt

Inf 1 indep mech inf bn

#### EQUIPMENT BY TYPE

TK • MBT 114: 114 *Leopard* C2

RECCE 303: 100 *Cougar* in store; 203 LAV-25 *Coyote*

APC £1,278

APC (T) £428: 78 Bv-206; £289 M-113; 61 M-577

APC (W) 850

LAV-III 651: 651 *Kodiak* (incl variants)

MILLAV *Bison* 199

ARTY 456

TOWED • 105mm 213: 89 C2 (M-101); 96 C3 (M-101); 28

LG1 MK II

SP • 155mm • M-109 76: 18 M-109A4; 58 in store

MOR 167: 167 81mm

AT

MSL 575: 425 *Eryx*

TOW • TOW-2 150: 150 TOW-2A/TOW-2B (incl 71 TUA M-113 SP)

RCL • 84mm: • CARL GUSTAV 1,040: 1,040 M2/M3

RL • 66mm: some M-72 LAW

AD

SAM

SP 34: 34 ADATS

MANPAD: some *Starburst*

GUNS • 40mm • TOWED 57: 57 L40/60 in store

## Reserve Organisations

### Canadian Rangers

Ranger 1 (Patrol) group

### Militia 15,500 reservists

Army 10 (bde gp) HQ

Armd 16 regt

Inf 53 regt

Arty 14 regt, 2 indep bty

AD 2 regt, 1 indep bty

Engr 3 regt, 8 sqn

Cbt engr 1 regt

Log 20 bn

Medical 12 coy

## Navy (Maritime Command) £12,000

#### EQUIPMENT BY TYPE

SUBMARINES • TACTICAL • SSK 4:

4 *Victoria* (UK *Upholder*) each with 6 single TT each with Mk48 *Sea Arrow* HWT

PRINCIPAL SURFACE COMBATANTS 16

DESTROYERS • DDG 4:

3 mod *Iroquois* each with 1 76mm gun, 2 CH-124A (SH-3A) *Sea King* ASW hel each with Mk 46 LWT, 2 triple ASTT (6 eff.), 1 Mk 41 VLS with 29+ SM-2 MR SAM

1 mod *Iroquois* in reserve with 1 76mm gun, 2 CH-124A (SH-3A) *Sea King* ASW hel each with Mk 46 LWT, 2 triple ASTT (6 eff.) each with 29+ SM-2 MR SAM, 1 Mk 41 VLS with 29+ SM-2 MR SAM

FRIGATES • FFG 12:

12 *Halifax* (capacity either 1 CH-124A (SH-3A) *Sea King* ASW hel or 1 SH-3B *Sea King* CH-124 (SH-3) ASW) each with 1 CH-124A (SH-3A) *Sea King* ASW hel with 2 Mk 46 LWT, 2 Twin 324mm ASTT (4 eff.) with 24 Mk 46 LWT, 2 quad (8 eff.) with 8 RGM-84 *Harpoon* tactical SSM, 2

octuple Mk 48 *Sea Sparrow* with 16 RIM-7P *Sea Sparrow* SAM

#### PATROL AND COASTAL COMBATANTS 14

MCDV 12: 12 *Kingston*

PCC 2: 2 *Fundy* (trg)

#### FACILITIES

Bases Located at Esquimalt (Pacific), Halifax (Atlantic), Ottawa (National HQ)

#### Logistic Support

##### LOGISTICS AND SUPPORT 6

AGOR 2

AO 2: 2 *Protecteur* each eq. with 3 CH-124A (SH-3A) *Sea King* ASW HEL

AOT 1; 1 diving tender/spt

#### Reserves 4,000 reservists

HQ 1 HQ located at Quebec

Navy 24 div (tasks: crew 10 of the 12 MCDV; harbour defence; naval control of shipping)

#### Air Force (Air Command) 14,500; 2,600 reservists (total 17,100)

Flying hours 210 hrs/year

#### FORCES BY ROLE

|                                    |   |
|------------------------------------|---|
| HQ (AF)                            | 1 Air Div (13 air wg responsible for operational readiness, combat air-spt, air tpt, SAR, MR and trg)   |
| Strategic Force                    | 1 (NORAD Regional) HQ located at North Bay with 11 NORTH WARNING SYSTEM LONG RANGE; 36 NORTH WARNING SYSTEM SHORT RANGE; 4 Coastal; 2 Transportable     |
| FGA                                | 5 sqn with total 60 CF-18A (F/A-18A) <i>Hornet</i> /CF-18B (F/A-18B) <i>Hornet</i>  |
| MP                                 | 4 sqn with 18 CP-140 <i>Aurora</i> ; 3 CP-140A <i>Arcturus</i> (environmental patrol)   |
| SAR/tpt                            | 4 sqn with 6 CC-115 <i>Buffalo</i> ; 4 CC-138 (DHC-6) <i>Twin Otter</i>   |
| Tkr/tpt                            | 4 sqn with 5 KC-130H <i>Hercules</i> ; 19 CC-130E (C-130E) <i>Hercules</i> ; 6 CC-130H (C-130H) <i>Hercules</i> ; 3 CC-150 <i>Polaris</i> ; 2 A-310MRTT |
| VIP/Medevac                        | 1 sqn with 8 CC-144B <i>Challenger</i>  |
| Trials and testing /Trg/Rotational | 21 CF-18A (F/A-18A) <i>Hornet</i> /CF-18B (F/A-18B) <i>Hornet</i> *   |
| Hel                                | 3 sqn with 15 CH-149 <i>Cormorant</i> ; 8 sqn with 75 CH-146 <i>Griffon</i> incl 15 spec op; 3 sqn with 28 CH-124 (SH-3) <i>Sea King</i>                |

#### EQUIPMENT BY TYPE

##### AIRCRAFT 133 combat capable

FGA

F/A-18 115: CF-18A/-18B (81 operational)

MP 21: 18 CP-140 *Aurora*; 3 CP-140A *Arcturus* (environmental patrol)

TKR • KCC-130 (KC-130) 5: 5 KC-130H *Hercules*

TPT 48

C-130 27: 19 CC-130E (C-130E) *Hercules*; 8 CC-130H (C-130H) *Hercules*

CC-115 *Buffalo* 6

CC-138 (DHC-6) *Twin Otter* 4

CC-144B *Challenger* 6

CC-150 *Polaris* 5

TPT/TKR 2: 2 A-310MRTT

TRG 140: 136 CT-114 *Tutor*; 4 CT-142 *Dash* 8 *Nav Trainer*

#### HELICOPTERS

SAR 15: 15 CH-149 *Cormorant*

ASW 28: 28 CH-124 (SH-3) *Sea King*

UTL 84: 9 CH-139 *Jet Ranger*; 75 CH-146 *Griffon*

#### RADAR 53

AD RADAR • NORTH WARNING SYSTEM 47:

11 NORTH WARNING SYSTEM LONG RANGE;

36 NORTH WARNING SYSTEM SHORT RANGE

STRATEGIC 6: 4 Coastal; 2 Transportable

#### MSL • TACTICAL • AAM

AIM-7: some AIM-7M *Sparrow*

AIM-9: some AIM-9L *Sidewinder*

#### FACILITIES

Radar 47 with 11 NORTH WARNING SYSTEM LONG RANGE AD Radar; 36 NORTH WARNING SYSTEM SHORT RANGE AD Radar (North Warning) located in Canada

Centre 1 with 4 Coastal Strategic; 2 Transportable Strategic (Regional Op Control (ROCC) (2 Sector Op Control Centres (SOCC)) located in Canada

School 2 with 136 CT-114 *Tutor* trg ac; 4 CT-142 *Dash* 8 *Nav Trainer* trg ac; 9 CH-139 *Jet Ranger* utl hel (flying) located in Canada

#### NATO Flight Training Canada

##### AIRCRAFT

TRG 47: 26 CT-156 *Harvard II*/T-6A *Texan II*; 21 *Hawk* MK115 (advanced wpns/tactics trg)

#### Canadian Special Operations Forces Command

#### FORCES BY ROLE

|             |   |
|-------------|---|
| SF          | 1 regt (3rd Bn Royal Canadian Regt; present strength 1 coy – to be 3 Coy – and comd and spt elms) located at CFB Petawawa |
| Special Ops | 1 sqn located at CFB Trenton, with 15 CH-146 <i>Griffon</i>   |
| NBC         | 1 coy located at CFB Trenton  |

#### EQUIPMENT BY TYPE

HEL • UTL 15: 15 CH-146 *Griffon*

#### Paramilitary 9,350

Canadian Coast Guard has merged with Department of Fisheries and Oceans.

#### Canadian Coast Guard 4,700 (civilian)

##### PATROL AND COASTAL COMBATANTS 32

PC 18

PCI 10

PCO 4

##### LOGISTICS AND SUPPORT 64

ACV 4

AGB 5

POLAR ICEBREAKER 1: 1 *Gulf* class Type 1300

**RIVER ICEBREAKER** 4: 1 Modified R class Type 1200; 3 R class Type 1200  
**AGOR** 12 (fishery)  
**AGOS** 11  
**Navais** 29  
**Trg** 3  
**HELICOPTERS**  
**UTL** 27:  
**BO-105** 16  
**BELL 206** 6: 6 Bell 206L *Longranger*  
**Bell 212** 5

**Department of Fisheries and Oceans** 4,650 (civilian)

**PATROL AND COASTAL COMBATANTS** 38: 38 PB  
**LOGISTICS AND SUPPORT** 52: 17 AGB; 35 AGOR

## DEPLOYMENT

### AFGHANISTAN

NATO • ISAF 2,300

UN • UNAMA 1 ob

### BOSNIA-HERZEGOVINA

EU • EUFOR II 3

### CYPRUS

UN • UNFICYP 1

### DEMOCRATIC REPUBLIC OF CONGO

UN • MONUC 9 obs

### EGYPT

MFO 29

### HAITI

UN • MINUSTAH 6

### IRAQ

UN • UNAMI 1 ob

### MIDDLE EAST

UN • UNDOF 188

UN • UNTSO 8 obs

### SERBIA AND MONTENEGRO

NATO • KFOR I 2–3

### SUDAN

UN • UNMIS 7, 25 obs

### SYRIA/ISRAEL

UN • UNDOF 184 (log unit)

## FOREIGN FORCES

**Italy Air Force:** 12 (flying trg)

**United Kingdom:** 1 trg unit Air Force: F-3 *Tornado* ftr ac/*Tornado* GR4 Strike/FGA ac trg; *Jaguar* GR3 FGA ac trg; *Harrier* GR7 FGA ac/*Harrier* GR7A trg; 57 Army: 500

## United States US

| United States Dollar \$    |      | 2004   | 2005   | 2006  | 2007  |
|----------------------------|------|--------|--------|-------|-------|
| <b>GDP</b>                 | US\$ | 11.7tr | 12.5tr |       |       |
| <b>per capita</b>          | US\$ | 40,047 | 42,207 |       |       |
| <b>Growth</b>              | %    | 4.4    | 3.6    |       |       |
| <b>Inflation</b>           | %    | 2.7    | 3.4    |       |       |
| <b>Public Debt</b>         | %    | 63.4   |        |       |       |
| <b>National Def Budget</b> |      |        |        |       |       |
| <b>BA</b>                  | US\$ | 490bn  | 505bn  | 561bn |       |
| <b>Outlay</b>              | US\$ | 455bn  | 495bn  | 535bn |       |
| <b>Request</b>             |      |        |        |       |       |
| <b>BA</b>                  | US\$ |        |        |       | 513bn |
| <b>Outlay</b>              | US\$ |        |        |       | 527bn |

**Population** 295,734,134

| Age           | 0 – 14 | 15 – 19 | 20 – 24 | 25 – 29 | 30 – 64 | 65 plus |
|---------------|--------|---------|---------|---------|---------|---------|
| <b>Male</b>   | 11%    | 4%      | 4%      | 3%      | 23%     | 5%      |
| <b>Female</b> | 10%    | 3%      | 3%      | 3%      | 23%     | 7%      |

## Capabilities

**ACTIVE 1,546,372** (Army 595,946 Navy 376,750 Air 347,400 US Marine Corps 185,776 US Coast Guard 40,500)

**CIVILIAN 10,126** (US Special Operations Command 3,376 US Coast Guard 6,750)

**RESERVE 956,202** (Army 521,877 Navy 155,350 Air 178,875 Marine Corps Reserve 92,000 US Coast Guard 8,100)

## ORGANISATIONS BY SERVICE

### US Strategic Command

Combined Service 1 HQ located at Offutt AFB (NE)

Five missions – US nuclear deterrent; missile defence; global strike; info ops; ISR

### US Navy

**SUBMARINES • STRATEGIC • SSBN** 14: 4 *Ohio* SSBN 727 each with up to 24 UGM-93A *Trident* C-4 strategic SLBM; 10 *Ohio* (mod) SSBN 734 each with up to 24 UGM-133A *Trident D-5* strategic SLBM

### US Air Force • Air Combat Command

Bbr 4 sqn with 95 B-52 *Stratofortress* (56 combat ready); 2 sqn with 21 B-2A *Spirit* (16 combat ready)

### Air Force Space Command

Msl 11 sqn with 50 LGM-118A *Peacekeeper* (capacity 10 MK21s); 500 LGM-30G *Minuteman III* (capacity 3 MK12/MK12As)

## Reserve Organisations

### Air Force Reserve

Bbr 1 sqn with 9 B-52H *Stratofortress*



**EQUIPMENT BY TYPE**

**MSL • ICBM** 550: 50 LGM-118A *Peacekeeper* (capacity 10 MK21 nuclear warheads); 500 LGM-30G *Minuteman III* (capacity 3 MK12 nuclear warheads/MK12A nuclear warheads)

**Strategic Recce/Intelligence Collection (Satellites)****SPACE BASED SYSTEMS 58+****SATELLITES 34+**

**IMAGERY** 3+: *Improved Crystal* (visible and infra-red imagery, resolution 6 inches); some *Lacrosse* (formerly *Indigo*, radar imaging satellite resolution 1–2m)

**ELINT/SIGINT** 7: 2 *Orion* (formerly *Magnum*); 2 *Trumpet* (successor to *Jumpseat*); 3 unknown (launched Aug 1994, May 1995, Apr 1996)

**ELECTRONIC OCEAN RECCE SATELLITE**: some EORSAT (detection of shipping by use of infra-red and radar)

**NAVIGATIONAL SATELLITE TIMING AND RANGING** 24: 24 NAVSTAR Block 2R (components of Global Positioning System (GPS) accuracy 1m)

**SENSORS • NUCLEAR DETONATION DETECTION** 24: (detects and evaluates nuclear detonations. Sensors deployed in NAVSTAR satellites)

**Strategic Defences – Early Warning**

North American Aerospace Defense Command (NORAD), a combined US/CA org.

**SPACE BASED SYSTEMS • SATELLITES** 4: 4 DEFENSE SUPPORT PROGRAMME *DSP* (Infra-red surveillance and warning system. Detects missile launches, nuclear detonations, ac in afterburn, spacecraft and terrestrial infra-red events. Approved constellation: 3 operational satellites; 1 operational on-orbit spare.)

**NORTH WARNING SYSTEM** 15 NORTH WARNING SYSTEM LONG RANGE (range 200nm); 40 NORTH WARNING SYSTEM SHORT RANGE (range 110–150km)

**OTH-B** 2: 1 AN/FPS-118 *OTH-B* (500–3000nm) located at Mountain Home AFB (ID); 1 non-operational located at Maine (ME)

**STRATEGIC 2 BALLISTIC MISSILE EARLY WARNING SYSTEM BMEWS** located at Thule, GL and Fylingdales Moor, UK; 1 (primary mission to track ICBM and SLBM; also used to track satellites) located at Clear (AK)

**SPACETRACK SYSTEM** 11: 8 Spacetrack Radar located at Incirlik (Tu), Eglin (FL), Cavalier AFS (ND), Clear (AK), Thule (GL), Fylingdales Moor (UK), Beale AFB (CA), Cape Cod (MA); 3 Spacetrack Optical Trackers located at Socorro (NM), Maui (HI), Diego Garcia

**USN SPACE SURVEILLANCE SYSTEM NAV SPASUR** 3 strategic transmitting stations; 6 strategic receiving sites in southeast USA

**PERIMETER ACQUISITION RADAR ATTACK CHARACTERISATION SYSTEM PARCS** 1 at Cavalier AFS, (ND)

**PAVE PAWS** 3 at Beale AFB (CA), Cape Cod AFS (MA), Clear AFS (AK); 1 (phased array radar 5,500km range) located at Otis AFB (MA)

**DETECTION AND TRACKING RADARS** Kwajalein Atoll, Ascension Island, Antigua, Kaena

Point (HI), MIT Lincoln Laboratory (MA)

**GROUND BASED ELECTRO OPTICAL DEEP SPACE SURVEILLANCE SYSTEM GEODSS**  
Socorro (NM), Maui (HI), Diego Garcia

**US Army** 488,944; 107,002 reservists (total 595,946)

**FORCES BY ROLE**

|          |   |
|----------|---|
| Comd     | 3 army HQ, 1 AB corps HQ, 3 corps HQ  |
| HQ       | 2 (integrated) div HQs – for peacetime trg (each with 3 enhanced (ARNG) inf bde HQ)   |
| Armd     | 1 div (1st Cav Div) with 3 armd BCT (each with 3 armd bn, 1 ADA bn, 1 engr bn, 1 sigs bn, 1 arty bn, 1 cbt spt bn); 1 armd BCT (forming, with 2 armd bn, 1 mech inf bn, 1 arty bn); 1 avn BCT (with 1 armd bn, 1 atk hel bn, 1 air cav bn, 2 gen spt avn bn, 1 avn spt bn); 1 spt bde   |
|          | 1 div (1st Armored Div) with 2 armd BCT (each with 3 fd arty bn, 1 mech inf bn, 2 armd bn); 1 mech BCT (with 1 armd bn, 2 mech inf bn, 1 cav sqn, 1 fd arty bn); 1 avn bde (with 1 air cav sqn, 1 avn spt sqn, 2 avn bn); 1 div arty bde  |
| Armd Cav | 1 regt (11th ACR) – OPFOR; 1 heavy regt (3rd ACR)   |
| Mech     | 1 div HQ (1st Inf Div) with 2 mech BCT (each with 2 armd bn, 1 mech inf bn, 1 fd arty bn, 1 engr bn, 1 spt bn); 1 mech BCT (with 2 mech inf bn, 1 armd bn, 1 fd arty bn, 1 engr bn, 1 spt bn); 1 avn BCT (with 2 avn bn, 1 avn spt bn); 1 div arty bde (with 1 MLRS bn, 1 ADA bn); 1 spt bde  |
|          | 1 div HQ (2nd Inf Div) with 1 mech BCT (with 1 armd bn, 1 mech inf bn, 1 fd arty bn, 1 engr bn, 1 spt bn); 1 Stryker BCT (with 3 inf bn, 1 fd arty bn, 1 cav bn, 1 spt bn); 1 inf BCT (with 1 mech inf bn, 1 fd arty bn, 1 air aslt bn, 1 engr bn, 1 spt bn); 1 avn BCT (with 1 atk hel bn, 1 aslt hel bn, 1 gen spt avn bn, 1 avn spt bn); 1 arty bde (with 1 MLRS bn, 1 fd arty bn) |
|          | 2 div HQ (3rd and 4th Inf Div) each with 4 mech BCT (with 1 armd bn, 1 mech inf bn, 1 fd arty bn, 1 cav sqn, 1 spec tps bn); 1 avn BCT (with 1 atk hel bn, 1 aslt hel bn, 1 air cav sqn, 1 gen spt avn sqn, 1 avn spt sqn); 1 div arty bde (with 1 MLRS bn, 1 fd arty bn); 1 spt bde  |
| Stryker  | 1 (172nd) indep BCT; 1 (2 ACR(L)) BCT   |
| Lt inf   | 1 div HQ (25th Inf Div), with 2 lt inf BCT – two more forming (each with 2 inf bn, 1 fd arty bn, 1 cav sqn, 1 spt bn, 1 spec tps bn); 1 Stryker BCT (with 3 inf bn, 1 cav sqn, 1 fd arty bn, 1 spt bn); 1 AB BCT (with 1 inf bn, 1 fd arty bn, 1 cav sqn, 1 spt bn); 1 avn BCT (with 1 atk hel bn, 1 aslt hel bn, 1 air cav bn, 1 avn spt bn); 1 spt bde                              |
|          | 1 div HQ (10th Mtn Div) with 4 lt inf BCT (each with 2 lt inf bn, 1 fd arty bn, 1 cav sqn, 1 spec tps bn, 1 spt bn); 1 avn BCT (with 1 atk hel bn, 1 aslt hel bn, 1 air cav sqn, 1 avn spt bn); 1 spt bde; 1 div arty bde (with 2 fd arty bn); 1 indep bn; 1 bn (OPFOR)   |
| SF       | 5 gp opcon USSOCOM (each: 3 SF bn)  |

|               |   |
|---------------|---|
| Ranger        | 1 regt opcon USSOCOM (3 Ranger bn)  |
| Air Aslt      | 1 div HQ (101st Air Aslt) <i>with</i> 4 air aslt BCT ( <i>each with</i> 2 air aslt bn, 1 arty bn, 1 recce bn, 1 spec tps bn ( <i>with</i> 1 sigs coy, 1 engr coy, 1 MI coy), 1 spt bn; 2 avn BCT ( <i>each with</i> 1 atk hel bn, 1 aslt hel bn, 1 gen spt avn bn, 1 avn spt bn); 1 spt bde |
| AB            | 1 div HQ (82nd AB) <i>with</i> 3 bde ( <i>each with</i> 1 arty bn, 3 AB bn); 1 avn bde; 1 air cav bde; 1 AD div<br>1 indep bde (173rd AB) <i>with</i> 2 inf bn, 1 recce coy, 1 fd arty bn, 1 spt bn   |
| Arty          | 3 bde ( <i>each with</i> 1 SP arty bn, 2 MLRS bn); 1 bde ( <i>with</i> 3 arty bn, 12 MLRS bn); 3 bde ( <i>each:</i> 1 SP arty bn, 2 MLRS bn); 1 bde (1 MLRS bn, 3 arty bn);   |
| Sigs          | 1 bn opcon USSOCOM  |
| Avn           | 3 corps spt bde; 1 army spt bde; 1 trg bde; 1 regt opcon USSOCOM ( <i>with</i> 3 avn bn)  |
| Spt           | 1 CBRNE comd <i>with</i> 1 EOD gp <i>with</i> 4 EOD bn (one more gp to form); 1 chemical bn (one more chemical bn to form); 1 asymmetric warfare regt, initially under FORSCOM command and control  |
| Psyops        | 1 gp opcon USSOCOM ( <i>with</i> 5 psyops bn)   |
| Civil Affairs | 1 bn opcon USSOCOM ( <i>with</i> 5 civil affairs coy)   |
| AD            | 10 bn <i>with</i> MIM-104 Patriot   |

**EQUIPMENT BY TYPE**

**TK • MBT • M-1** 7,620+: 7,620+ M-1 Abrams/M1-A1 Abrams/M1-A2 Abrams

**RECCE** 96: 96 Tpz-1 Fuchs

**AIFV** 6,719: 6,719 M-2 Bradley/M-3 Bradley *each with* 2 TOW msl, 1 30mm gun

**APC** 1,608

**APC (T) • M-113** 14,300: 14,300 M-113A2/M-113A3

**APC (W) • LAV-III** 1,708: 1,708 Stryker

**ARTY** 6,530

**TOWED** 1,547

**105mm** 850: 434 M-102; 416 M-119

**155mm** 697: 697 M-198

**SP • 155mm • M-109** 2,087: 2,087 M-109A1/M-109A2/M-109A6

**MRL • 227mm** 830: 830 MLRS (all ATACMS-capable)

**MOR** 2,066

**81mm** 990: 990 M-252

**120mm** 1,076: 1,076 M-120/M-121

**AT**

**MSL** 21,955

**Javelin (Fire and Forget)** 950

**M47 Dragon (Command Line Of Sight)** 19,000

**TOW** 2,005: 1,379 HMMWV; 626 M-901

**RL • 84mm:** some AT-4

**AMPHIBIOUS • CRAFT** 124+

**LCU** 45:

11 LCU-1600 (capacity either 2 M1-A1 Abrams M-1 MBT or 350)

34 LCU-2000

**LC** 79+:

6 Frank Besson (capacity 32 M-1 Abrams MBT)

73+ LCM-8 (capacity either 1 MBT or 200 troops)

**AIRCRAFT**

**RECCE** 60

**ARL** 9: 3 COMINT/ELINT; 3 COMINT; 3 IMINT

**O-2 Skymaster** 2

**RC-12** 49: 37 RC-12D Guardrail/RC-12H Guardrail/RC-12K Guardrail; 12 RC-12P Guardrail/RC-12Q Guardrail

**EW • ELINT** 9: 9 RC-7 Dash 7

**TPT** 208

**C-12** 136: 46 C-12C Huron/C-12R Huron; 90 C-12D Huron/C-12F Huron/C-12J Huron

**C-20 Gulfstream** 3

**C-23** 47: 47 C-23A Sherpa/C-23B Sherpa

**C-26 Metro** 11

**C-31 Friendship** 2

**C-37** 2

**Cessna 182 Skylane** 2

**UV-18** 4: 4 UV-18A Twin Otter

**UTL** 27: 26 UC-35 Citation; 1 UV-20A Chiricahua

**TRG** 3: 3 T-34 Turbo Mentor

**HELICOPTERS**

**OBS • OH-58** 463: 463 OH-58A Kiowa/OH-58C Kiowa

**SAR • HH-60** 7: 7 HH-60L Black Hawk

**ATK** 1,143

**AH-64** 732: 732 AH-64A Apache/AH-64D Apache

**OH-58D Warrior** 375

**ASLT** 36: 36 AH-6 Little Bird/MH-6 Little Bird

**SPEC OP** 83

**MH-47** 23: 23 MH-47E Chinook

**MH-60 • MH-60K** 60: 60 MH-60K Black Hawk Pave Hawk; HEL/MH-60L Black Hawk Pave Hawk SPEC OP hel

**UTL** 1,935

**UH-60** 1488: 1,484 UH-60A Black Hawk/UH-60L Black Hawk/UH-60M Black Hawk; 4 UH-60Q Black Hawk

**UH-1H Iroquois** utl/**UH-1V Iroquois** spt 447

**TRG** 154: 154 TH-67 Creek

**UAV • RECCE** 42+

**TAC** 18+: 12 RQ-5A Hunter; 6 in store; some Raven on lease

**STRATEGIC** 24: 24 RQ-7A Shadow

**AD • SAM** 1281+

**SP** 798: 703 FIM-92A Avenger (veh-mounted Stinger); 95 M-6 Linebacker (4 Stinger plus 25mm gun)

**TOWED** 483: 483 MIM-104 Patriot

**MANPAD:** some FIM-92A Stinger

**RADAR • LAND** 251: 98 AN/TPQ-36 Firefinder (arty); 56 AN/TPQ-37 Firefinder (arty); 60 AN/TRQ-32 Teammate (COMINT); 32 AN/TSQ-138 Trailblazer (COMINT); 5 AN/TSQ-138A Trailblazer

**Reserve Organisations**

**Army National Guard** 351,350 reservists

Currently capable of manning 8 divs after mobilisation. By FY2007, under the army's transformation process, the ARNG will assume an end-state structure consisting of 32 Brigade Units of Action (22 light and 10 heavy), 1 Stryker Brigade Combat Team and 1 Scout Group.

**FORCES BY ROLE**

|          |  |
|----------|--|
| Armd     | 1 div; 2 indep bde   |
| Armd Cav | 1 regt   |
| Scout    | 1 gp   |
| Mech     | 4 div; 5 indep bde   |
| Inf      | 3 div; 1 light div; 7 indep bde  |
| SF       | 2 gp opcon USSOCOM (total: 3 SF bn)  |
| Arty     | 42 indep bn  |
| Fd Arty  | 17 bde HQ (mostly non-operational)   |
| Engr     | 40 indep bn  |
| Avn      | 32 indep bn  |
| WMD      | 32 WMD-CST (Weapons of Mass Destruction Civil Support Teams)                       |
| AD       | 2 indep bn with MIM-104 <i>Patriot</i> ;<br>9 indep bn with FIM-92A <i>Avenger</i> |

**Army Reserve 324,100 reservists**

|               |  |
|---------------|--|
| Atk hel       | 2 bn with AH-64 <i>Apache</i>                                      |
| SH            | 2 bn with CH-47 <i>Chinook</i>                                     |
| Aslt          | 2 coy with UH-60 <i>Black Hawk</i>                                 |
| Inf           | 5 div (exercise); 7 div (trg)                                      |
| ATK ac        | 2 bn   |
| Psyops        | 2 gp opcon USSOCOM   |
| Civil Affairs | 36 (coys) bn opcon USSOCOM;<br>12 (4 comd, 8 bde) HQ opcon USSOCOM |
| Regional Spt  | 13 comd  |

**Army Stand-by-Reserve 700 reservists**

Trained individuals for mobilisation

**US Navy 376,750**

Comprises 2 Fleet Areas, Atlantic and Pacific. Surface combatants divided in 5 Fleets: 2nd – Atlantic, 3rd – Pacific, 5th – Indian Ocean, Persian Gulf, Red Sea, 6th – Mediterranean, 7th – W Pacific; plus Military Sealift Command (MSC); Navy Special Warfare Command; Naval Reserve Force (NRF).

**EQUIPMENT BY TYPE****SUBMARINES 72****STRATEGIC • SSBN 14:**

- 4 *Ohio* SSBN 727 opcon US STRATCOM (SSBN-727) each with up to 24 UGM-93A *Trident* C-4 strategic SLBM
- 10 *Ohio* (Mod) SSBN 734 opcon US STRATCOM each with up to 24 UGM-133A *Trident* D-5 strategic SLBM

**TACTICAL 58****SSGN 4:**

- 4 *Ohio*, mod eq. with total of 154 *Tomahawk* LAM (1 operational, 3 in refit)

**SSN 54:**

- 20 *Los Angeles* each with 4 single 533mm TT each with Mk48 *Sea Arrow* HWT/UGM-84 *Harpoon* USGW
- 22 *Los Angeles* imp, each with up to 12 *Tomahawk* LAM, 4 single 533mm TT each with Mk48 *Sea Arrow* HWT/UGM-84 *Harpoon* USGW
- 8 *Los Angeles* mod, each with 12 *Tomahawk* LAM, 4 single 533mm TT each with Mk48 *Sea Arrow* HWT/UGM-84 *Harpoon* USGW
- 3 *Seawolf*, each with 8 x 1 660mm TT each with up to

45 *Tomahawk* LAM/UGM-84C *Harpoon* USGW, Mk48 *Sea Arrow* HWT

1 *Virginia* with SLCM *Tomahawk*, 4 single 533mm TT each with Mk48 ADCAP mod 6 HWT, 1 12 cell vertical launch system (12 eff.)

**PRINCIPAL SURFACE COMBATANTS 118****AIRCRAFT CARRIERS 11****CVN 9:**

1 *Enterprise* (typical capacity 55 F/A-18 *Hornet* FGA ac; 4 EA-6B *Prowler* ELINT EW ac; 4 E-2C *Hawkeye* AEW ac; 6 S-3B *Viking* ASW ac; 4 SH-60F *Seahawk* ASW hel; 2 HH-60H *Rescue Hawk* *Seahawk* SAR hel) (CVN-65) with 3 Mk 29 *Sea Sparrow* octuple each with RIM-7M/RIM-7P, 2 Mk 49 RAM (may be fitted) with 21 RIM-116 RAM SAM

8 *Nimitz* (typical capacity 55 F/A-18 *Hornet* FGA ac; 4 EA-6B *Prowler* ELINT EW ac; 4 E-2C *Hawkeye* AEW ac; 6 S-3B *Viking* ASW ac; 4 SH-60F *Seahawk* ASW hel; 2 HH-60H *Rescue Hawk* *Seahawk* SAR hel) (CVN-68 (one in refit)) each with 2–3 Mk 29 *Sea Sparrow* octuple each with RIM-7M/RIM-7P, 2 Mk 49 RAM (Replaces *Phalanx* systems CVN 69, 76 remainder due to be fitted.) with 42 RIM-116 RAM SAM

**CV 2:**

1 *John F. Kennedy* (typical capacity 50 F/A-18 *Hornet* FGA ac; 4 EA-6B *Prowler* ELINT EW ac; 4 E-2C *Hawkeye* AEW ac; 6 S-3B *Viking* ASW ac; 4 SH-60F *Seahawk* ASW hel; 2 HH-60H *Seahawk* SAR hel) (CV-67) with 3 Mk 29 *Sea Sparrow* octuple each with RIM-7M/RIM-7P, 2 Mk 49 RAM with 42 RIM-116 RAM SAM

1 *Kitty Hawk* (typical capacity 50 F/A-18 *Hornet* FGA ac; 4 EA-6B *Prowler* ELINT EW ac; 4 E-2C *Hawkeye* AEW ac; 6 S-3B *Viking* ASW ac; 4 SH-60F *Seahawk* ASW hel; 2 HH-60H *Seahawk* SAR hel) (CV-63) each with 3 Mk 29 *Sea Sparrow* octuple each with RIM-7M/RIM-7P, 2 Mk 49 RAM with 42 RIM-116 RAM SAM

**CRUISERS • CG • TICONDEROGA 25:**

22 *Aegis* Baseline 2/3/4 (CG-52-CG-74) each with 2 SH-60B *Seahawk* ASW hel, 1 comd and control, 2 quad (8 eff.) each with RGM-84 *Harpoon* SSM, 2 61 cell Mk 41 VLS (122 eff.) each with SM-2 ER SAM/*Tomahawk* LAM, 2 127mm gun

3 *Aegis* Baseline 1 each with 2 SH-60B *Seahawk* ASW hel, 4 SM-2 MR SAM

8 RGM-84 *Harpoon* SSM, 2 127mm gun

**DESTROYERS • DDG 47**

28 *Arleigh Burke* Flight I/II each with 2 triple ASTT (6 eff.) each with Mk 46 LWT, 2 quad (8 eff.) each with RGM-84 *Harpoon* tactical SSM, 2 Mk 49 RAM with 42 RIM-116 RAM SAM, 1 32 cell Mk 41 VLS (32 eff.) with ASROC tactical/ASSM SSM tactical/SM-2 ER SAM/*Tomahawk* tactical LAM, 1 64 cell Mk 41 VLS (64 eff.) with ASROC tactical/ASSM SSM tactical/SM-2 ER SAM/*Tomahawk* tactical LAM, 1 127mm gun, *Aegis* comd and control, 1 hel landing platform

19 *Arleigh Burke* Flight IIA each eq. with 2 SH-60B *Seahawk* ASW hel each with 2 triple ASTT (6 eff.) each with Mk 46 LWT, 2 quad (8 eff.) each with RGM-84 *Harpoon* tactical SSM, 1 32 cell Mk 41 VLS (32 eff.) with ASROC tactical/ASSM tactical/SM-2 ERSAM/*Tomahawk* tactical LAM, 1 64 cell Mk 41 VLS (64 eff.) with ASROC tactical/ASSM

SSM tactical/SM-2 ER SAM/*Tomahawk* tactical LAM, 1 127mm gun, 1 *Aegis* cmd and control, 1 hel landing platform

#### FRIGATES • FFG 30:

22 *Oliver Hazard Perry* (capacity 2 SH-60B *Seahawk* ASW hel) each with 2 triple 324mm ASTT (6 eff.) with 24 Mk 46 LWT, 1 Mk 13 GMLS with 36 SM-1 MR SAM, 4 RGM-84D *Harpoon*/RGM-84F

8 *Oliver Hazard Perry* (capacity 2 SH-60B *Seahawk* ASW hel) in reserve each with 2 triple 324mm ASTT (6 eff.) with 24 Mk 46 LWT, 1 Mk 13 GMLS with 4 RGM-84D *Harpoon* tactical SSM/RGM-84F tactical SSM, 36 SM-1 MR SAM, 1 76mm gun

#### PATROL AND COASTAL COMBATANTS 21:

PCI 8

PFC 13: 13 *Cyclone*

#### MINE WARFARE • MINE COUNTERMEASURES 26

MCM 14:

9 *Avenger* (MCM-1) each with 1 SLQ-48 MCM system, 1 SQQ-32(V)3 Sonar (mine hunting)

5 *Avenger* in reserve each with 1 SLQ-48 MCM system, 1 SQQ-32(V)3 Sonar (mine hunting)

MHC 12:

2 *Osprey* (MHC-1) each with 1 SLQ-48 MCM system, 1 SQQ-32(V)2 Sonar (mine hunting)

10 *Osprey* in reserve each with 1 SLQ-48 MCM system, 1 SQQ-32(V)2 Sonar (mine hunting)

**Minelayers** (none dedicated, but mines can be laid from attack SSN, aircraft and surface ships)

#### COMMAND SHIPS • LCC 2:

2 *Blue Ridge* (capacity 3 LCPL; 2 LCVP; 700 troops; 1 SH-3H *Sea King* utl hel)

#### AMPHIBIOUS

##### PRINCIPAL AMPHIBIOUS SHIPS 36

LHD 7:

7 *Wasp* (capacity 60 tanks; 1,890 troops; 5 AV-8B *Harrier II* FGA; 42 CH-46E *Sea Knight* spt hel; 6 SH-60B *Seahawk* ASW hel; 3 LCAC(L) ACV) each with 2 Mk 29 *Sea Sparrow* octuple with 32 RIM-7M/RIM-7P, 2 Mk 49 RAM with 42 RIM-116 RAM SAM

LHA 5:

5 *Tarawa* (capacity 100 tanks; 1,900 troops; 6 AV-8B *Harrier II* FGA ac; 12 CH-46E *Sea Knight* spt hel; 9 CH-53 *Sea Stallion* spt hel; 4 LCU) each with 2 Mk 49 RAM with 42 RIM-116 RAM SAM

LPD 12:

11 *Austin* (capacity 40 tanks; 788 troops; 2 LCAC(L) ACV/LCU; 6 CH-46E *Sea Knight* spt hel)

1 *San Antonio* (capacity 720 troops; 2 LCAC(L); 14 AAV; 1 UA-53E *Sea Stallion* hel or 2 CH-46 *Sea Knight* or 1 MV-22 *Osprey*)

LSD 12:

4 *Harpers Ferry* (capacity 40 tanks; 500 troops; 2 LCAC(L) ACV) each with 1–2 Mk 49 RAM with 21–42 RIM-116 RAM SAM, 1 hel landing platform (for 2 Ch-35)

8 *Whidbey Island* (capacity 40 tanks; 500 troops; 4 LCAC(L) ACV) each with 2 Mk 49 RAM with 42 RIM-116 RAM SAM, 1 hel landing platform (for 2 CH-53)

#### AMPHIBIOUS CRAFT 334

LCU 35

LCVP 8

LCPL 145

LCM 72

ACV 74: 74 LCAC(L) (capacity either 1 MBT or 60 troops)

SF EQUIPMENT 6: 6 DDS opcon USSOCOM

#### FACILITIES

Bases

1 opcon EUCOM located at Naples, It, 1 opcon EUCOM located at Soudha Bay, Gr, 1 opcon EUCOM located at La Maddalena, It, 1 opcon US Pacific Fleet located at Yokosuka, J, 1 opcon EUCOM located at Rota, Sp, 1 opcon US Pacific Fleet located at Sasebo, J

Naval airbases

1 opcon US Pacific Fleet (plus naval comms facility) located at Andersen AFB, 1 opcon US Pacific Fleet located at Diego Garcia, BIOT

SEWS

1 opcon US Pacific Fleet located at Pine Gap, Aus

Comms facility

1 opcon US Pacific Fleet located at NW Cape, Aus

SIGINT Stn

1 opcon US Pacific Fleet located at Pine Gap, Aus

Support facility

1 opcon EUCOM located at Ankara, Tu, 1 opcon EUCOM located at Izmir, Tu, 1 opcon US Pacific Fleet located at Diego Garcia, BIOT, 1 opcon US Pacific Fleet located at Singapore, Sgp

#### Combat Logistics Force

##### LOGISTICS AND SUPPORT

AOE 5: 4 *Sacramento* (capacity 2 CH-46E *Sea Knight* spt hel); 1 *Supply* (capacity 3 CH-46E *Sea Knight* spt hel)

#### Navy Reserve Surface Forces

##### PRINCIPAL SURFACE COMBATANTS

FRIGATES 8: 8 FFG

MINE WARFARE • MINE COUNTERMEASURES 15: 5 MCM spt; 10 MHC

INSHORE UNDERSEA WARFARE 45: 45 HDS/IBU/MIUW

#### Navy Stand-by-Reserve 2,500 reservists

#### Naval Inactive Fleet

##### PRINCIPAL SURFACE COMBATANTS 9

AIRCRAFT CARRIERS 4: 4 CV

BATTLESHIP 2: 2 BB

DESTROYERS 4: 4 DD

#### AMPHIBIOUS

LS 5: 5 LKA

CRAFT 5: 5 LCT

LOGISTICS AND SUPPORT 9: 5 AG

AO 2: 2

#### Military Sealift Command (MSC) • Naval Fleet Auxiliary Force

LOGISTICS AND SUPPORT 35: 6 AE (ammo); 6 AF

AH (MED) 2: 2 *Mercy* each with 1 hel landing platform

ATF 5



T-AO 13  
T-AOE (RAS) 3

### Prepositioning Program/Maritime Prepositioning Program

LOGISTICS AND SUPPORT 36: 16 AVB (avn log)  
(MPS); 2 (USAF); 1 T-AK (USN); 2 (USAF); 4 (army)  
T-AKR • LMSR T-AKR 8: 8 *Watson* (army)  
T-AOT 3 (DLA)

### Sealift Force

LOGISTICS AND SUPPORT 24

T-AKR 19  
AKR 8: 8 *Algol*  
LMSR T-AKR 11: 11 *Bob Hope/Gordon/Shughart*  
T-AOT 5: 5 T5 type

### Special Mission Ships

LOGISTICS AND SUPPORT 26: 1 HSV; 1 T-AG; 2 T-AGM; 12 T-AGOS; 9 T-AGS; 1 T-ARC

### US Maritime Administration Support • National Defense Reserve Fleet

LOGISTICS AND SUPPORT 49

T-AK 42: 39 T-AK (breakbulk); 3 T-AK (heavy lift)  
T-AO 7

### Ready Reserve Force

Ships at readiness of 4/5/10/20/30 days

LOGISTICS AND SUPPORT 78: 2 AVB (Avn Log)

T-ACS 10: 10 *Keystone State*  
T-AK 24: 17 T-AK (breakbulk); 7 T-AK (heavy lift)  
T-AKR 31  
T-AOT 9: 5; 4 T-AOT (OPDS)  
T-AP 2

### Augmentation Force • Active

Cargo handling 1 bn

### Reserve

Cargo handling 12 bn

### Naval Aviation 98,588

Operates from 11 carriers, 11 air wings (10 active 1 reserve). Average air wing comprises 9 sqns: 3 with 12 F/A-18C, 1 with 10 F-14, 1 with 8 S-3B, 1 with 6 SH-60, 1 with 4 EA-6B, 1 with 4 E-2C, a spt with C-2.

### FORCES BY ROLE

Air wing 11 wg  
COMD 2 sqn with 16 E-6B *Mercury*  
Ftr 1 sqn with F-14D *Tomcat*; 1 sqn with F-14B *Tomcat* (to be removed from active service mid 2006)  
FGA 6 sqn with F/A-18E *Super Hornet*; 14 sqn with F/A-18F *Super Hornet*; 21 sqn with F/A-18C *Hornet*; 1 sqn with F/A-18E *Super Hornet*  
ASW 12 sqn with total of 108 S-3B *Viking*; 10 sqn with total of 145 SH-60B *Seahawk*; 10 sqn with total of 23 HH-60H *Seahawk*; 73 SH-60F *Seahawk*  
ELINT 1 sqn with 11 EP-3 *Orion*  
ELINT/ECM 12 sqn with EA-6B *Prowler*; 2 sqn EA-6B *Prowler*

MP 12 (land-based) sqn with total of 177 P-3C *Orion*\*  
AEW 10 sqn with total of 82 E-2C *Hawkeye*  
MCM 2 sqn with MH-53E *Sea Dragon*  
Spt 1 sqn with MH-53E *Sea Dragon*; 5 sqn with MH-60S *Knight Hawk*  
Tpt 2 sqn with total of 37 C-2A *Greyhound*  
Trg 1 (aggressor) sqn with F/A-18C *Hornet*/F/A-18D *Hornet* / F/A-18E *Super Hornet*/F/A-18F *Super Hornet*; 14 sqn with T-2C *Buckeye*/T-34C *Turbo Mentor* / T-44 *Pegasus* / T-44A *Pegasus* ; 2 sqn with TH-57B *Sea Ranger* / TH-57C *Sea Ranger*; 1 (aggressor) sqn with F/A-18B *Hornet* / F/A-18 C *Hornet* / F/A-18D *Hornet*; 1 sqn with F-14B *Tomcat*/F-14 D *Tomcat*

### EQUIPMENT BY TYPE

AIRCRAFT 982 combat capable

FTR 130

F-5 23: 20 F-5E *Tiger II* in store; 3 F-5F *Tiger II*

F-14 107: 63 F-14B *Tomcat*; 44 F-14D *Tomcat*

FGA • F/A-18 587: 20 F/A-18B *Hornet*; 318 F/A-18C *Hornet*; 46 F/A-18D *Hornet*; 95 F/A-18E *Super Hornet*; 108 F/A-18F *Super Hornet*

ASW • S-3 108: 108 S-3B *Viking*\*

ELINT • EP-3 *Orion* 11: 11 EP-3 *Orion*

ELINT / ECM • EA-6B 98: 98 EA-6B *Prowler*

MP • P-3 177: 177 P-3C *Orion*\*

AEW • E-2 7: 7 E-2C *Hawkeye* in store

COMD • E-6 16: 16 E-6B *Mercury*

TKR • KC-130 5: 5 KC-130F *Hercules*

TPT 65

C-12 4: 4 C-12C *Huron*

C-2 37: 37 C-2A *Greyhound*

C-20 7: 1 C-20A *Gulfstream III*; 2 C-20D *Gulfstream III*;

4 C-20G *Gulfstream IV*

C-26 7: 7 C-26D *Metro III*

C-37 1

CT-39 1: 1 CT-39G *Sabreliner*

LC-130 3: 2 LC-130F *Hercules*; 1 LC-130R *Hercules*

VP-3 5: 5 VP-3A *Orion*

UTL 37

RC-12 4: 2 RC-12F *Huron*; 2 RC-12M *Huron*

U-6 2: 2 U-6A *Beaver*

UC-12 26: 26 UC-12B *Huron*

UC-35 1: 1 UC-35D *Citation Encore*

UP-3 4: 4 UP-3A *Orion*

TRG 689

T-2 104: 104 T-2C *Buckeye*

T-34 308: 308 T-34C *Turbo Mentor*

T-38 *Talon 9*

T-39 24: 1 T-39D *Sabreliner*; 8 T-39G *Sabreliner*;

15 T-39N *Sabreliner*

T-44 55: 55 T-44A *Pegasus*

T-45 149: 74 T-45A *Goshawk*; 75 T-45C *Goshawk*

TA-4 17: 17 TA-4J *Skyhawk*

TC-12 21: 21 TC-12B *Huron*

TE-2 2: 2 TE-2C *Hawkeye*

TRIALS AND TEST 49

NF-14 4: 1 NF-14A *Tomcat*; 1 NF-14B *Tomcat*;

2 NF-14D *Tomcat*



NF/A-18 6: 1 NF/A-18A *Hornet*; 2 NF/A-18C *Hornet*;  
3 NF/A-18D *Hornet*  
NP-3 12: 1 NP-3C *Orion*; 11 NP-3D *Orion*  
NT-34 1: 1 NT-34C *Mentor* test  
NU-1 1: 1 NU-1B *Otter* test  
QF-4 18: 2 QF-4N *Phantom II*; 16 QF-4S *Phantom II*  
X-26 2: 2 X-26A test  
X-31 1: 1 X-31A test  
YF-4J *Phantom II* 1 (prototype, FGA)  
YSH-60 *Seahawk* 1 (prototype)  
YSH-60 3: 1 prototype; 1 YSH-60B *Seahawk*; 1 YSH-60F *Seahawk*

**HELICOPTERS** 222 attack helicopters

MCM 33: 33 MH-53E *Sea Dragon*

OBS • OH-58 3: 3 OH-58A *Kiowa*

SAR 123

HH-1 23: 23 HH-1N *Iroquois*

HH-46 32: 32 HH-46D *Sea Knight*

HH-60 23: 23 HH-60H *Seahawk*

UH-3 45: 45 UH-3H *Sea King*

ATK • AH-1 4: 4 AH-1Z *Super Cobra*

ASW • SH-60 218: 145 SH-60B *Seahawk*; 73 SH-60F *Seahawk*

SPEC OP • MH-60 50: 8 MH-60R *Strike Hawk*; 42 MH-60S *Knight Hawk*

SPT 18

CH-53 18: 9 CH-53D *Sea Stallion*; 9 CH-53E *Sea Stallion*

UTL 19

UH-1 5: 1 UH-1N *Iroquois*; 4 UH-1Y *Iroquois*

UH-46D *Sea Knight* 9

UH-60 3: 3 UH-60L *Black Hawk*

VH-3 2: 2 VH-3A *Sea King* (2 VIP, 1 trials)

TRG 132

TH-57 126: 44 TH-57B *Sea Ranger*; 82 TH-57C *Sea Ranger*

TH-6 6: 6 TH-6B in testing

TEST • N-SH-60 3: 3 N-SH-60B *Seahawk*

**MSL****ASM**

AGM-45: some AGM-45 *Shrike*

AGM-84: some AGM-84A *Harpoon*

AGM-114: some AGM-114 *Hellfire*

AGM-119: some AGM-119A *Penguin* 3

AGM-88: some AGM-88A *HARM*

**AAM**

AIM-7: some AIM-7 *Sparrow*

AIM-9: some AIM-9 *Sidewinder*

AIM-54: some AIM-54A *Phoenix*

AIM-120: some AIM-120 *AMRAAM*

**Naval Aviation Reserve****FORCES BY ROLE**

FGA 3 sqn with F/A-18A *Hornet*; 1 sqn with F/A-18A *Hornet* / F/A-18B *Hornet*

ASW 1 sqn with HH-60F / SH-60F *Seahawk*; 1 sqn with SH-60B *Seahawk*

MR 3 sqn with P-3C *Orion*

AEW 1 sqn with E-2C *Hawkeye*

MSC 1 sqn with HH-60H *Seahawk*; 1 sqn with UH-3H *Sea King*

ECM 1 sqn with EA-6B *Prowler*

Log spt 1 wg (3 log spt sqn with C-40A *Clipper*, 3 log spt sqn with C-20 *Gulfstream*, 4 tactical tpt sqn with C-130T *Hercules*, 4 log spt sqn with C-9B *Nightingale*; DC-9)

Trg 1 (aggressor) sqn with F-5E *Tiger II*/F-5F *Tiger II*; 1 (aggressor) sqn with F/A-18 *Hornet*

**EQUIPMENT BY TYPE**

AIRCRAFT 114 combat capable

FGA • F/A-18 67: 64 F/A-18A *Hornet*; 3 F/A-18B *Hornet*

MP • P-3 47: 47 P-3C *Orion*\*

EW/ELINT • EA-6 4: 4 EA-6B *Prowler*

AEW • E-2 9: 9 E-2C *Hawkeye*

TPT 49

C-130 20: 20 C-130T *Hercules*

C-40 6: 6 C-40A *Clipper*

C-9 15: 15 C-9B *Nightingale*

DC-9 8

UTL • UC-12 22: 6 UC-12B *Huron*; 6 UC-12F *Huron*; 10 UC-12M *Huron*

HELICOPTERS 11 attack helicopters

MCM 8: 8 MH-53E *Sea Dragon*

SAR 24

HH-60 16: 16 HH-60H *Rescue Hawk*

UH-3 8: 8 UH-3H *Sea King*

ASW • SH-60 11: 5 SH-60B *Seahawk*; 6 SH-60F *Seahawk*

**Naval Reserve Force 152,850 reservists**

Delivery veh 1 det opcon USSOCOM

Naval special warfare 3 det opcon USSOCOM; 6 (Gp) det opcon USSOCOM; 1 det opcon USSOCOM

Special boat 2 sqn opcon USSOCOM; 2 unit opcon USSOCOM

HQ 1 (CINCSOC) det opcon USSOCOM

SEAL 5 det opcon USSOCOM

**US Marine Corps 175,350; 11,311 reservists (total 186,661)**

3 Marine Expeditionary Force (MEF), 2 Marine Expeditionary Brigade (MEB) drawn from 3 div. The 4th Military Expeditionary Brigade (Anti-Terrorism) was officially deactivated 24 February 2006, and its major subordinate units were reassigned to other commands. The Marine Security Force Battalion (MSFBn), Chemical Biological Incident Response Force (CBIRF) and Anti-Terrorism Battalion (ATBN) are now assigned to the 11 Marine Expeditionary Force. The Marine Security Guard Battalion (MSGBn) is now assigned to Marine Corps Combat Development Command.

**FORCES BY ROLE****MARDIV**

1st MARDIV (1 cbt engr bn, 1 recce bn, 1 arty regt (4 arty bn), 1 amph aslt bn, 1 armd bn, 2 (LAV-25) lt armd recce bn, 3 inf regt (each: 3 inf bn)); 2nd MARDIV (1 cbt engr bn, 1 amph aslt bn, 1 recce bn, 1 arty regt (4 arty bn), 1 lt armd recce bn, 1 armd bn, 3 inf regt (each: 3 inf bn)); 3rd MARDIV (1 recce bn, 1 arty regt (2 arty bn), 1 cbt engr bn, 1 cbt sp bn (1 lt armd recce coy, 1 amph aslt coy), 2 inf regt (each: 3 inf bn))

Spec Ops 1 force (3 recce bn, 3 MEF recce coy)  
Force Service Sp Gp 3 gp; 1 sqn

**EQUIPMENT BY TYPE**

**TK • MBT • M-1** 403: 403 M1-A1 *Abrams*  
**RECCE** 252: 252 LAV-25 *Coyote* (25mm gun, plus 189 variants excluding 50 mor, 95 ATGW see below)  
**AAV • AAV-7** 1,311: 1,311 AAV-7A1 (all roles)  
**ARTY** 1,511

**TOWED** 926

**105mm • M-101** 331: 331 M-101A1  
**155mm** 595: 595 M-198

**MOR • 81mm** 585: 50 LAV-M; 535 M-252

**AT**

**MSL** 2,299

*Predator* 1,121

**TOW** 1,178: 1,083; 95 LAV-TOW

**RL** 2,764

**83mm** 1,650: 1,650 SMAW

**84mm** 1,114: 1,114 AT-4

**AD • SAM • MANPAD**: some FIM-92A *Stinger*

**RADAR • LAND** 23: 23 AN/TPQ-36 *Firefinder* (arty)

**Marine Corps Aviation 34,700**

3 active Marine Aircraft Wings (MAW) and 1 MCR MAW

Flying hours 240 hrs/year on ac; 360 hrs/year on tpt ac;  
270 hrs/year on hel

**FORCES BY ROLE**

**Ftr** 14 sqn with 168 F/A-18A *Hornet*/F/A-18C *Hornet*/F/A-18D *Hornet*  
**FGA** 7 sqn with 112 AV-8B *Harrier II*  
**ECM** 4 sqn with 20 EA-6B *Prowler*  
**Tkr** 3 sqn with 36 KC-130F *Hercules*/KC-130R *Hercules*  
**Atk hel** 6 sqn with 72 AH-1W *Cobra*;  
36 UH-1N *Iroquois*  
**Spt hel** 4 sqn with 38 CH-53D *Sea Stallion*; 16 sqn with 174 CH-46E *Sea Knight*; 4 sqn with 80 CH-53E *Sea Stallion*  
**Trg** 13 sqn with 224 CH-46E *Sea Knight*; 2 sqn with CH-53D *Sea Stallion*; 1 sqn with V-22 *Osprey*; 4 sqn with 15 CH-53E *Sea Stallion*; 1 sqn with 8 KC-130F *Hercules*; 1 sqn with 12 AV-8B *Harrier II*; 14 TAV-8B *Harrier*; 1 sqn with 34 AH-1W *Cobra*/HH-1N *Iroquois*/UH-1N *Iroquois*; 1 sqn with 40 F/A-18A *Hornet*/F/A-18B *Hornet*/F/A-18C *Hornet*/F/A-18D *Hornet*; 2 T-34C *Turbo Mentor*  
**AD** 5 bty with FIM-92A *Avenger*; FIM-92A *Stinger*  
**UAV** 2 sqn with RQ-2B *Pioneer*

**EQUIPMENT BY TYPE**

**AIRCRAFT** 344 combat capable

**FGA** 344

**F/A-18** 213: 28 F/A-18A *Hornet*; 4 F/A-18B *Hornet*; 86 F/A-18C *Hornet*; 95 F/A-18D *Hornet*

**AV-8** 131: 131 AV-8B *Harrier II*

**EW • ELINT • EA-6** 27: 27 EA-6B *Prowler*

**TKR • KC-130** 48: 31 KC-130F *Hercules*; 4 KC-130J *Hercules*; 13 KC-130R *Hercules*

**TPT** 3

**C-20** 1: 1 C-20G *Gulfstream IV*

**C-9** 2: 2 C-9B *Nightingale*

**UTL** 8

**UC-12** 7: 7 UC-12B *Huron*

**UC-35** 1: 1 UC-35D *Citation Encore*

**TRG** 17

**T-34** 2: 2 T-34C *Turbo Mentor*

**TAV-8** 15: 15 TAV-8B *Harrier*

**HELICOPTERS****SAR** 14

**HH-1** 9: 9 HH-1N *Iroquois*

**HH-46** 5: 5 HH-46D *Sea Knight*

**ATK • AH-1** 148: 144 AH-1W *Cobra*; 4 AH-1Z *Super Cobra*

**SPT** 428

**CH-46-E** 224

**CH-53** 196: 49 CH-53D *Sea Stallion*; 147 CH-53E

**VH-60N** *Presidential Hawk* 8 (VIP tpt)

**UTL** 106

**UH-1** 74: 72 UH-1N *Iroquois*; 2 UH-1Y *Iroquois*

**VH-3** 11: 11 VH-3D *Sea King* (VIP tpt)

**MV-22** 13: 12; 1 MV-22 Block B *Osprey* (First of 360 on order, with a delivery rate of 48 per year)

**UAV • RQ-2**: some RQ-2B *Pioneer*

**MSL • TACTICAL**

**ASM**: some AGM-114 *Hellfire*; some AGM-65 *Maverick*; some TOW

**AAM**: some AIM-120 *AMRAAM*; some AIM-7 *Sparrow*; some AIM-9 *Sidewinder*

**Reserve Organisations****Marine Corps Reserve 92,000 reservists**

**Marine** 1 div (1 amph aslt bn, 1 arty bn (5 arty bn), 1 recce bn, 1 cbt engr bn, 1 (LAV-25) lt armd recce bn, 3 inf regt (each: 3 inf bn))

**Spec Ops** 1 force (1 MEF recce coy, 1 recce bn)

**Force Service Sp Gp** 1 gp

**Marine Corps Aviation Reserve 11,592 reservists****FORCES BY ROLE**

**Ftr** 4 sqn with 48 F/A-18A *Hornet*  
**Tkr** 2 sqn with 28 KC-130T *Hercules*  
**Atk hel** 2 sqn with 36 AH-1W *Cobra*;  
18 UH-1N *Iroquois*  
**Spt hel** 2 sqn with 24 CH-46E *Sea Knight*;  
2 sqn with 32 CH-53E *Sea Stallion*  
**Trg** 1 sqn with 13 F-5E *Tiger II* (aggressor)  
**AD** 1 bn (2 Bty) with FIM-92A *Avenger*

**EQUIPMENT BY TYPE**

**AIRCRAFT** 64 combat capable

**FTR • F-5** 13: 12 F-5E *Tiger II*; 1 F-5F *Tiger II*

**FGA • F/A-18** 51: 51 F/A-18A *Hornet*

**TKR • KC-130** 28: 28 KC-130T *Hercules*

**UTL** 10

**RC-12** 4: 4 RC-12M *Huron*

**UC-12** 3: 3 UC-12B *Huron*

**UC-35** 3: 2 UC-35C *Citation Ultra*; 1 UC-35D *Citation Encore*

**HELICOPTERS**

**ATK • AH-1** 40: 40 AH-1W *Cobra*

## SPT 45

CH-46 24: 24 CH-46E *Sea Knight*CH-53 21: 21 CH-53E *Sea Stallion*UTL • UH-1 20: 20 UH-1N *Iroquois***Marine Stand-by Reserve 700 reservists**

Trained individuals for mobilisation

**US Coast Guard 40,360 (Military); 6,750 (civilian); 1,546 reservists (Coast Guard) (total 41,906 plus 6,750 civilians)**

**PATROL AND COASTAL COMBATANTS 131**PBC 89: 40 *Marine Protector*; 49 *Farallon*

PSO 2

PSOH 40: 1 *Alex Haley*; 13 *Famous*; 12 *Hamilton*; 14 *Reliance***LOGISTICS AND SUPPORT 92**ABU 16: 16 *Juniper*AGB 3: 3 *Polar Icebreaker*

Trg 2

WLI 5

WLIC 13

WLM 15: 15 *Keeper*

WLR 18

WTGB 9

YTM 11

**US Coast Guard Aviation 7,960****AIRCRAFT**MP 22: 22 HU-25 *Guardian*SAR • HC-130 27: 27 MC-130H *Hercules*

TPT 7

C-130 6: 6 C-130J *Hercules*

C-37 1

**HELICOPTERS**SAR 136: 41 HH-60J *Jayhawk*; 95 HH-65A (AS-366G1) *Dauphin II*UTL • A-109 8: 8 MH-68A (A-109E) *Power***US Air Force (USAF) 347,400 (plus 7,660 ANG and Air Force Reserve)**

Flying hours ftr 189, bbr 260, tkr 308, airlift 343

**Air Combat Command (ACC)**

Comprises of 4 air forces, 23 ac wings. Almost the entire USAF (plus active force ANG and AFR) is divided into 10 Aerospace Expeditionary Forces (AEF). Each AEF is on call for 120 days every 20 months, and at least 2 of the 10 AEFs are on call at any one time. Each AEF with 10,000–15,000 personnel comprises 90 multi-role ftr and bbr ac, 31 intra-theatre refuelling aircraft and 13 aircraft for intelligence, surveillance, reconnaissance and EW missions.

**FORCES BY ROLE**

HQ (AF) 1 HQ located at Langley AFB (VA)

Bbr 5 (non-STRATCOM mission capable) sqn with 67 B-1B *Lancer* (incl 2 test); 4 sqn opcon US STRATCOM with 95 B-52 *Stratofortress* (56 combat ready); 2 sqn opcon US STRATCOM with 21 B-2A *Spirit* (16 combat ready)

Ftr 21 sqn with 378 F-16C *Fighting Falcon*/F-16D *Fighting Falcon*; 2 sqn with 36 F-117 *Nighthawk*; 6 sqn with 66 F-15E *Strike Eagle*; 11 sqn with 198 F-15 *Eagle*; 1 sqn with 19 F/A-22A *Raptor*; 6 sqn with 108 A-10 *Thunderbolt II*/OA-10 *Thunderbolt II*

FAC 7 sqn with A-10 *Thunderbolt II*/OA-10A *Thunderbolt II*

Recce 3 sqn with RC-135/U-2S; 1 sqn with E-8 J-STARS

EW 2 sqn with EC-130 *Commando Solo*

AEW 1 wg (6 AEW sqn with E-3B *Sentry*/E-3C *Sentry*)

SAR 6 sqn with HC-130N *Hercules*/HC-130P *Hercules*/HH-60G *Pave Hawk*

Trg 1 (aggressor) sqn with 18+ F-16C *Fighting Falcon*/F-16D *Fighting Falcon*

UAV 3 sqn with RQ-1B *Predator*/RQ-4A *Global Hawk*

**Air Mobility Command (AMC)**

Provides strategic, tactical, special op airlift, aero medical evacuation, SAR and weather recce.

**FORCES BY ROLE**

HQ (AF) 1 HQ located at Scott AFB (IL)

Air 2 Air Forces (total: 12 air wg)

Strategic tpt 4 sqn with C-5 *Galaxy*; 8 sqn with C-17 *Globemaster*

Tactical tpt 9 sqn with C-130 *Hercules*

Op spt tpt 8 sqn with C-12 *Huron*; C-20 *Gulfstream*; C-21 *Learjet*; C-37; C-40 *Clipper*; VC-25 *Air Force One*; UH-1 *Iroquois*

Tkr 18 sqn with KC-135 *Stratotanker*; 4 sqn with KC-10A *Extender DC-10*

Weather recce 1 sqn with WC-135

**Air Education and Training Command****FORCES BY ROLE**

Air 7 sqn (AFR personnel) trained to use ac; 2 air forces (total: 11 air wg)

Flying trg 8 wg with T-1 *Jayhawk*; T-37 *Tweet*; T-38 *Talon*; T-43; T-6 *Texan II*

Mission trg 25 sqn with F-16 *Fighting Falcon*; F-15 *Eagle*; A-10 *Thunderbolt II*; OA-10 *Thunderbolt II*; MC-130 *Hercules*; HC-130 *Hercules*; KC-135 *Stratotanker*; C-130 *Hercules*; C-135 *Stratolifter*; C-17 *Globemaster*; C-21 *Learjet*; C-5 *Galaxy*; HH-60 *Seahawk*; UH-1N *Iroquois*

Trials and testing some unit with B-1 *Lancer*; B-2 *Spirit*; B-52 *Stratofortress*; F-22 *Raptor*; F-117 *Nighthawk*; F-16 *Fighting Falcon*; F-15A *Eagle*/F-15B *Eagle*/F-15C *Eagle*/F-15D *Eagle*; A-10 *Thunderbolt II*; U-2; EC-130E *Commando Solo*; E-3B *Sentry*; AC-130 *Spectre*; KC-135 *Stratotanker*; C-12 *Huron*; C-135 *Stratolifter*; C-17 *Globemaster*; T-38C *Talon*; T-39 *Sabreliner*; NC-130 *Hercules*; TG-10 *Glider*; HH-60 *Seahawk*; UH-1 *Iroquois*

**'ACTIVE FORCE' EQUIPMENT SUMMARY**

**AIRCRAFT** 1,659 combat capable

**LRSA 236**

**B-1** 81: 67 B-1B *Lancer*; 12 in store; 2 test

**B-2** 21: 21 B-2A *Spirit*

**B-52** 144: 85 B-52H *Stratofortress*; 47 in store; 2 test

**FTR 467**

**F-22** 19: 19 F/A-22A *Raptor*

**F-117** *Nighthawk* 52

**F-15** 396: 396 F-15A *Eagle*/F-15B *Eagle*/F-15C *Eagle*/F-15D *Eagle*  
**FGA** 1,098  
**F-16** 738: 738 F-16C/D *Fighting Falcon*  
**F-15** 217: 217 F-15E *Strike Eagle*  
**A-10** 143: 143 A-10A *Thunderbolt II*  
**FAC • OA-10** 70: 70 OA-10A *Thunderbolt II*\*  
**RECCE** 76  
**E-8 J-STARS** 17: 17 E-8C *J-STARS*  
**OC-135** Boeing 707 3  
**RC-135** 19: 14 RC-135V *Rivet Joint*/RC-135W *Rivet Joint*; 3 RC-135S *Cobra Ball*; 2 RC-135U *Combat Sent*  
**TU-2** 5: 5 TU-2S  
**U-2** 31: 31 U-2S  
**WC-135** 1: 1 WC-135W *Constant Phoenix*  
**AEW • E-3** 33: 33 E-3B *Sentry*/E-3C *Sentry* (incl 1 test)  
**COMD E-4** 4: 4 E-4B  
**SPEC OPS • MC-130** 48: 24 MC-130E *Combat Talon*/MC-130H *Combat Talon II*; 24 MC-130P *Combat Shadow*  
**SAR • HC-130** 13: 13 HC-130N *Hercules*/HC-130P *Hercules*  
**TKR** 294: 235 KC-135E *Stratotanker*/KC-135T *Stratotanker*; 59 KC-10A *Extender* DC-10  
**TPT** 436  
**C-5** 80: 28 C-5A *Galaxy*; 50 C-5B *Galaxy*; 2 C-5C *Galaxy*  
**C-12** 19: 11 C-12C *Huron*/C-12D *Huron*/C-12F *Huron*/C-12J *Huron*; 8 in store  
**C-17** 131: 131 C-17A *Globemaster*  
**C-130** 186: 186 C-130E *Hercules*/C-130H *Hercules*/C-130J *Hercules*  
**C-20** 7: 5 C-20B *Gulfstream III*; 2 C-20H *Gulfstream III*  
**C-21** 74: 74 C-21A *Learjet*  
**C-32** 4: 4 C-32A  
**C-37A** 9  
**C-40 B/C** 2  
**VC-25** 2: 2 VC-25A  
**RANGE INST • EC-18** 5: 2 EC-18B *Aria*/EC-18D *Aria*; 3 in store  
**TRIALS AND TESTING**  
**LRSA** 5: 2 B-1 *Lancer* in testing; 1 B-2 *Spirit* in testing; 2 B-52 *Stratofortress* in testing  
**FTR** 81: 31 F-22 *Raptor* in testing; 1 F-117 *Nighthawk* in testing; 38 F-16 *Fighting Falcon* in testing; 11 F-15A *Eagle*/F-15B *Eagle*/F-15C *Eagle*/F-15D *Eagle* in testing  
**FGA** 2: 2 A-10 *Thunderbolt II* in testing  
**EW • EC-130** 1: 1 EC-130E *Commando Solo* in testing  
**AEW • E-3** 1: 1 E-3B *Sentry* in testing  
**TRG** 1,277  
**T-1** 179: 179 T-1A *Jayhawk*  
**T-6A Texan** 159  
**T-37** 419: 419 T-37B *Tweet*  
**T-38** 509: 509 T-38A *Talon*/T-38C *Talon*  
**T-43** 11: 9 T-43A; 2 in store  
**TILT-ROTOR** First of 4 CV-22  
**HELICOPTERS**  
**CSAR/SAR** 126  
**HH-60** 64: 64 HH-60G *Pave Hawk*  
**UH-1** 62: 62 UH-1N *Iroquois*  
**SPEC OP • MH-53** 38: 13 MH-53J *Pave Low III*; 25 MH-53M *Pave Low IV*  
**UAV • RECCE** 65  
**TAC • MQ-1** 57: 57 MQ-1 *Predator*  
**STRATEGIC • RQ-4** 8: 2 RQ-4A *Global Hawk*; 6 in testing

**MSL • TACTICAL** 41,120+  
**ASM** 26,120+  
**AGM-129** 400+: 400+ AGM-129A *Advanced Cruise Missile*  
**AGM-130** 400+: 400+ AGM-130A  
**AGM-142 Popeye** 150+  
**AGM-65** 17,000+: 17,000+ AGM-65A *Maverick*/AGM-65B *Maverick*/AGM-65D *Maverick*/AGM-65G *Maverick*  
**AGM-84** 70+: 70+ AGM-84B *Harpoon*  
**AGM-86** 1,600+: 900+ AGM-86B *ALCM*; 700+ AGM-86C *CALCM*  
**ARM • AGM-88** 6500+: 6,500+ AGM-88A *HARM*/AGM-88B *HARM*  
**AAM** 15,000+  
**AIM-120** 5,000+: 5,000+ AIM-120A *AMRAAM*/AIM-120B *AMRAAM*/AIM-120C *AMRAAM*  
**AIM-7** 3,000+: 3,000+ AIM-7M *Sparrow*  
**AIM-9** 7,000+: 7,000+ AIM-9M *Sidewinder*  
**BOMB • PGM • JSOW** 130+: 130+ AGM-154

### Air Force Space Command

Provides ballistic missile warning, space control, world-wide satellite operations and maintains ICBM force

#### FORCES BY ROLE

HQ (AF) 1 HQ located at Petersen AFB (CO)  
 Msl 11 sqn opcon US STRATCOM with 50 LGM-118A *Peacekeeper* (capacity 10 MK21s); 500 LGM-30G *Minuteman III* (capacity 3 MK12/MK12As)

#### EQUIPMENT BY TYPE

**MSL • STRATEGIC • ICBM** 550: 50 LGM-118A *Peacekeeper* (capacity 10 MK21 nuclear warheads); 500 LGM-30G *Minuteman III* (capacity 3 MK12 nuclear warheads/MK12A nuclear warheads)

### Reserve Organisations

**Air National Guard** 106,680 reservists

#### FORCES BY ROLE

Ftr 3 sqn with F-15 *Eagle*; 1 sqn with F-16 *Fighting Falcon*  
 FGA 6 sqn with A-10 *Thunderbolt II*/OA-10 *Thunderbolt II*; 3 sqn with F-15A *Eagle*/F-15B *Eagle*; 23 sqn with F-16 *Fighting Falcon*  
 Special Ops 1 sqn opcon USSOCOM with 6 EC-130E *Commando Solo*/EC-130H *Compass Call*  
 SAR 3 sqn with HC-130 *Hercules*/MC-130 *Hercules*; HH-60 *Seahawk*  
 Strategic tpt 1 sqn with C-38 *Astra*; 1 sqn with C-21 *Learjet*; 1 sqn with C-17 *Globemaster*  
 Tactical tpt 24 sqn with C-130E *Hercules*/C-130H *Hercules*/C-130J *Hercules*  
 Tkr 11 sqn with KC-135E *Stratotanker*; 13 sqn with KC-135R *Stratotanker*  
 Mission trg 7 sqn with F-16 *Fighting Falcon*; F-15 *Eagle*; C-130 *Hercules*

#### EQUIPMENT BY TYPE

**AIRCRAFT** 733 combat capable

#### FTR 126

**F-15** 126: 126 F-15A *Eagle*/F-15B *Eagle*/F-15C *Eagle*/F-15D *Eagle*



FGA 555: 473 F-16C/D *Fighting Falcon*; 84 A-10A *Thunderbolt II*  
FAC • OA-10 18: 18 OA-10A *Thunderbolt II*\*  
EW • EC-130 6: 6 EC-130E *Commando Solo/EC-130J Compass Call*  
SPEC OPS • MC-130 4: 4 MC-130P *Combat Shadow*  
SAR • HC-130 13: 13 HC-130N *Hercules/HC-130P Hercules*  
TKR • KC-135 220: 220 KC-135E *Stratotanker/KC-135R Stratotanker/KC-135T Stratotanker*  
TPT 234  
C-130 222: 222 C-130E *Hercules/C-130H Hercules/C-130J Hercules*  
C-21 2: 2 C-21A *Learjet*  
C-40 B/C 2  
C-17 8 : 8 C-17 *Globemaster*

HELICOPTERS • SAR • HH-60 18: 18 HH-60G *Pave Hawk*

**Air Force Reserve Command 72,195 reservists**

**FORCES BY ROLE**

|               |  |
|---------------|--|
| Bbr           | 1 sqn opcon US STRATCOM with 9 B-52H <i>Stratofortress</i>   |
| FGA           | 3 sqn with A-10 <i>Thunderbolt II/OA-10 Thunderbolt II</i> ; 3 sqn with F-16C <i>Fighting Falcon/F-16D Fighting Falcon</i> |
| Special Ops   | 1 sqn MC-130P <i>Combat Shadow Hercules</i> SPEC OPS ac; 1 sqn opcon USSOCOM with 14 MC-130E <i>Combat Talon</i>           |
| SAR           | 3 sqn with HH-60 <i>Seahawk</i> ; 2 sqn with HC-130 <i>Hercules</i>  |
| Strategic tpt | 2 sqn with C-5A <i>Galaxy</i> ; 6 sqn C-17 <i>Globemaster</i> tpt ac; 4 sqn C-5A <i>Galaxy</i> tpt ac                      |
| Tactical tpt  | 11 sqn with C-130E <i>Hercules/C-130H Hercules/C-130J Hercules</i>   |
| Tpt           | 4 sqn KC-10 <i>Extender</i> DC-10 tpt/tkr ac   |
| Tkr           | 2 sqn with KC-135E <i>Stratotanker</i> ; 5 sqn with KC-135R <i>Stratotanker</i> ; 1 sqn KC-135 <i>Stratotanker</i> tkr ac  |
| Weather recce | 1 sqn with WC-130H <i>Hercules/WC-130J Hercules</i>  |
| Mission trg   | 3 sqn with F-16 <i>Fighting Falcon</i> ; A-10 <i>Thunderbolt II</i> ; C-130 <i>Hercules</i>                                |

**EQUIPMENT BY TYPE**

AIRCRAFT 120 combat capable  
LRSA • B-52 9: 9 B-52H *Stratofortress*  
FGA 115: 69 F-16C/D *Fighting Falcon*; 46 A-10A *Thunderbolt II*  
FAC • OA-10 6: 6 OA-10A *Thunderbolt II*\*  
RECCE • WC-130 10: 10 WC-130J *Hercules*  
SPEC OPS • MC-130 14: 14 MC-130E *Combat Talon*  
SAR • HC-130 10: 10 HC-130N *Hercules/HC-130P Hercules*  
TKR • KC-135 70: 70 KC-135E *Stratotanker/KC-135R Stratotanker/KC-135T Stratotanker*  
TPT 146  
C-17 8 : 8 C-17 *Globemaster*  
C-130 106: 106 C-130E *Hercules/C-130H Hercules/C-130J Hercules*  
C-5 32: 32 C-5A *Galaxy*  
HELICOPTERS • SAR • HH-60 23: 23 HH-60G *Pave Hawk*

**Air Force Stand-by-Reserve** 16,858 reservists  
Trained individuals for mobilisation

**Civil Reserve Air Fleet**

Commercial ac numbers fluctuate  
AIRCRAFT • TPT 1,122: 758 long range international cargo and passenger; 218 short range international cargo and passenger; 36 national; 83 aeromedical evacuation

**US Special Operations Command 31,496; 3,376 (civilian); 11,247 reservists (SOF) (total 42,743 plus 3,376 civilians)**

Commands all active, reserve, and National Guard Special Operations Forces (SOF) of all services based in CONUS

**FORCES BY ROLE**

Combined Service 1 HQ located at MacDill AFB (FL)

**FACILITIES**

Navy Special Warfare Command (NSWC), Coronado CA

**US Army**

|               |                               |
|---------------|-------------------------------|
| SF            | 5 gp ( <i>each</i> : 3 SF bn) |
| Ranger        | 1 regt (3 Ranger bn)          |
| Sigs          | 1 bn                          |
| Avn           | 1 regt (3 Avn bn)             |
| Psyops        | 1 gp (5 Psyops bn)            |
| Civil Affairs | 1 bn (5 Civil Affairs coy)    |

**Reserve Organisations**

**Army Reserve National Guard**

SF 2 gp (*total*: 3 SF bn)

**Army Reserve**

Psyops 2 gp  
Civil Affairs 12 (4 comd, 8 bde) HQ; 36 (coys) bn

**US Navy**

**FORCES BY ROLE**

|                   |                     |
|-------------------|---------------------|
| SEAL delivery veh | 2 team              |
| NSWC              | 3 gp; 2 sqn; 1 comd |
| Special Boat      | 2 sqn               |
| SEAL              | 8 team              |

**EQUIPMENT BY TYPE**

SF EQUIPMENT 6: 6 DDS

**Naval Reserve Force**

|                       |   |
|-----------------------|---|
| Delivery veh          | 1 det                                       |
| Naval Special Warfare | 6 (Gp) det; 3 det; 1 det                    |
| Special Boat          | 2 unit; 2 sqn                               |
| HQ                    | 1 (CINCSOC) det                             |
| SEAL                  | 5 det (2 additional teams expected by 2007) |

**US Air Force**

**FORCES BY ROLE**

HQ (AF) 1 HQ



Special Ops 12 sqn with 8 AC-130H *Spectre*/ 13 AC-130U *Spectre*\*; 20 MC-130E *Combat Talon*/ MC-130H *Combat Talon II*/MC-130P *Combat Shadow*; 5 C-130E *Hercules*; 21 MH-53J *Pave Low III*/MH-53M *Pave Low IV*  
Test/Evaluation first of 4 CV-22

#### EQUIPMENT BY TYPE

##### AIRCRAFT

**SPEC OPS • MC-130** 20: 20 MC-130E *Combat Talon*/ MC-130H *Combat Talon II*/MC-130P *Combat Shadow*

**TPT • C-130** 5: 5 C-130E *Hercules*

**TILT-ROTOR • 4:** 4 CV-22

**HELICOPTERS • SPEC OP • MH-53** 21: 21 MH-53J *Pave Low III*/MH-53M *Pave Low IV*

#### Reserve Organisations

##### Air National Guard

Special Ops 1 sqn with 7 EC-130E *Commando Solo*/EC-130H *Compass Call*

##### Air Force Reserve

Special Ops 1 sqn with 14 MC-130E *Combat Talon*

#### DEPLOYMENT

##### AFGHANISTAN

United States Central Command

**US Army Central Command** 15,000 (*Op Enduring Freedom*)

**US Navy Central Command** 200 (*Op Enduring Freedom*)

**US Marines Central Command** 1,100 (*Op Enduring Freedom*)

**US Air Force Central Command** 3,200 (*Op Enduring Freedom*)

NATO • ISAF 89

##### ANTIGUA AND BARBUDA

US Strategic Command

**Strategic Defences - Early Warning**

**RADAR • STRATEGIC 1:** 1 DETECTION AND TRACKING RADARS located at Antigua, AB

##### ASCENSION ISLAND

US Strategic Command

**Strategic Defences - Early Warning**

**RADAR • STRATEGIC 1:** 1 DETECTION AND TRACKING RADARS located at USAF Ascension

##### ARABIAN GULF AND INDIAN OCEAN

United States Central Command

**US Navy HQ 5th fleet**

5th Fleet's operating forces are rotationally deployed to the region from either the Pacific Fleet or Atlantic Fleet. The 5th Fleet's typical composition includes 1 CVSG Carrier Strike Group and an Amphibious Ready Group (ARG)

**AIRCRAFT CARRIERS**

CV/CVN 1: 1 CV/CVN

**PRINCIPAL SURFACE COMBATANTS** 54

**CRUISERS** 1: 1 CG

**DESTROYERS** 4: 4 DDG

**FRIGATES** 1: 1 FFG

**MINE WARFARE • MINE COUNTERMEASURES • MCM** 4

##### AMPHIBIOUS

**PRINCIPAL AMPHIBIOUS SHIPS** 3: 1 LHD/LHA; 1 LPD; 1 LSD

##### ATLANTIC

United States Northern Command • US Navy HQ 2nd Fleet

2nd Fleet est. composition includes 3-4 CVSG Carrier Strike Groups

**SUBMARINES** 35

**STRATEGIC** 10:

**TACTICAL** 25: 25 SSN

**PRINCIPAL SURFACE COMBATANTS** 54

**AIRCRAFT CARRIERS** 3: 3 CV/CVN

**CRUISERS** 13: 13 CG

**DESTROYERS** 18: 18 DDG

**FRIGATES** 18: 18 FFG

**COMMAND SHIPS • LCC** 1:

**AMPHIBIOUS**

**PRINCIPAL AMPHIBIOUS SHIPS** 15: 2 LHA; 4 LPD; 4 LPH; 5 LSD

**LS** 7: 1 LKA; 6 LST

United States Northern Command • HQ 2nd Fleet • US Navy 4-5 CVBG CVGP (2nd Fleet)

##### AUSTRALIA

United States Pacific Command

**US Navy** 62

**Marine Forces Pacific** 40

**PACAF** 68

**US Army Pacific** 26

**US Pacific Fleet**

SEWS 1 located at Pine Gap, Aus

Comms facility 1 located at NW Cape, Aus

SIGINT Stn 1 located at Pine Gap, Aus

##### BAHRAIN

United States Command

**US Army Central Command** 20

**US Navy Central Command** 1,392

**US Air Force Central Command** 25

**US Marines Central Command** 204

##### BELGIUM

United States European Command

HQ Stuttgart-Vaihingen. Commander is SACEUR. (V Corps) Army Prepositioned stocks (APS) for 2 armd/mech bdes, approximately 57% stored in Ge, remainder in Be (22%) Lux (21%) and NL.

**US Army Europe** 794

**US Navy Europe** Commander is also CINCAF SOUTH

**US Navy** 81

**US Air Force Europe** Commander is also COMAIRCEN

**US Air Force** 453

**US Marine Corps Europe** 38

##### BOSNIA-HERZEGOVINA

NATO 263

##### BRITISH INDIAN OCEAN TERRITORY

US Strategic Command

**Strategic Defences - Early Warning**

**RADAR • STRATEGIC 2:** 1 GROUND BASED ELECTRO OPTICAL DEEP SPACE SURVEILLANCE SYSTEM *GEODSS* located at Diego Garcia, BIOT

**SPACETRACK SYSTEM 1:** 1 Spacetrack Optical Trackers located at Diego Garcia, BIOT

**United States Pacific Command**

**PACAF 373** located at Diego Garcia, BIOT

**US Pacific Fleet**

**US Navy 307** located at Diego Garcia, BIOT

**FORCES BY ROLE**

1 MPS sqn (MPS-2 with equipment for one MEB) located at Diego Garcia, BIOT with 5 logistics and support

**FACILITIES**

Naval airbase 1 located at Diego Garcia, BIOT

Support facility 1 located at Diego Garcia, BIOT

**COLOMBIA**

**United States Southern Command**

**US Army South 17**

**Commander Naval Forces South 4**

**US Southern Air Force 7**

**Marine Forces South 24**

**CUBA**

**United States Northern Command**

**US Marine Corps 145** located at Guantánamo

**US Navy 556** located at Guantánamo

**DJIBOUTI**

**United States Central Command**

**US Marines Central Command 1,200**

**ECUADOR**

**United States Southern Command**

**US Army South 6**

**US Navy 2**

**US Air Force 19**

**Marine Forces South • US Marine Corps 6**

**EGYPT**

**United States Central Command**

**US Air Force 45**

**US Army 737**

**US Marine Corps 32**

**MFO 1 Inf bn; 1 Spt bn; 687**

**ETHIOPIA/ERITREA**

**UN • UNMEE 7 obs**

**GEORGIA**

**UN • UNOMIG 2 obs**

**GERMANY**

**United States European Command**

**US Armed Forces**

1 Combined Service HQ (EUCOM) located at Stuttgart-Vaihingen, Ge

**US Army Europe**

1 HQ (HQ US Army Europe (USAREUR)) located at Heidelberg, Ge

**US Army 50,377**

**FORCES BY ROLE**

1 armcd corps HQ located at Heidelberg, Ge (1 armcd div ((less 1 bde at Ft Riley)), 1 engr bde, 1 avn bde, 1 mech inf div, 1 arty bde, 1 AD bde)

**EQUIPMENT BY TYPE**

**ARTY 312:** 312 mor/MRL/SP

**TK • MBT 568:** 568 M-1 *Abrams*

**AIFV 1266:**

1,266 M-2 *Bradley* each with 2 TOW msl, 1 30mm gun

**HELICOPTERS:** 115 atk

**US Navy Europe**

Commander is also CINCAFSOUTH

**US Navy Europe 286**

**US Air Force Europe • US Air Force 15,460**

1 HQ (AF) HQ (HQ US Airforce Europe (USAFE)) located at Ramstein AB, Ge

**US Air Force Europe • 3rd Air Force**

1 ftr wg (A/OA-10, F-16 CJ/DJ) located at Spangdahlem AB, Ge

11 Airlift wg located at *Ramstein* AB, Ge eq. with 16 C-130E *Hercules*; 2 C-20 *Gulfstream*; 9 C-21 *Learjet*; 1 C-37

**USMC • US Marine Corps 295**

**GREECE**

**European Command**

**US Army 10**

**US Navy 366 (Base facilities)**

Base 1 located at Makri, Gr, 1 located at Soudha Bay, Gr

**US Air Force 42**

**US Air Force Europe • 16th Air Force • US Air Force**

**United States Strategic Command**

Air base 1 located at Iraklion, Gr

**US Marine Corps Europe • US Marine Corps 10**

**GREENLAND**

**US Strategic Command**

**Strategic Defences - Early Warning**

**RADAR • STRATEGIC 2:** 1 BALLISTIC MISSILE EARLY WARNING SYSTEM *BMEWS* located at Thule, GL

**SPACETRACK SYSTEM 1:** 1 Spacetrack Radar located at Thule, GL

**United States Northern Command**

**US Air Force 146**

**GUAM**

**United States Pacific Command • Marine Force Pacific 4 •**

**PACAF • HQ 13th Air Force 1,719 • US Army Pacific Fleet 43 •**

**US Pacific Fleet • US Navy 1,252**

**FORCES BY ROLE**

1 MPS sqn (MPS-3 with equipmt for one MEB) eq. with 4 Logistics and Support  
1 C-17 tpt (8 by end 2006)

**FACILITIES**

Naval airbase located at Andersen AFB (plus Naval Comms facility)

**GUYANA**

**United States Southern Command 200**

**HAITI**

**UN • MINUSTAH 4**

**HONDURAS**

**United States Southern Command**

**US Army 221**

**US Air Force 207**

**US Marine Forces 8**

**ICELAND****United States European Command****US Navy 1,194**

1 MR sqn with 6 P-3 *Orion*; 1 UP-3 *Orion*

**US Airforce 672**

4 F-15C on rotation, 5 HH-60 G (SAR)

**IRAQ****United States Central Command****US Army 132,400** (*Op Iraqi Freedom*)**US Navy 14,500** (*Op Iraqi Freedom*)**US Air Force 19,800** (*Op Iraqi Freedom*)**US Marine Forces 25,900** (*Op Iraqi Freedom*)

1 MEF HQ (1 MAW wg with up to 48 F/A-18A *Hornet*/F/A-18C *Hornet*; up to 36 F/A-18D *Hornet*; up to 64 AV-8B *Harrier II*; F-15 *Eagle*; F-16 *Fighting Falcon*; Intelligence, Surveillance and Recce ac; up to 12 KC-130 *Hercules*; up to 92 AH-1W *Cobra*; up to 90 CH-46E *Sea Knight*; up to 64 CH-53E *Sea Stallion*; up to 50 UH-1N *Iroquois*, 1 FSSG regt, 1 MARDIV div with up to 58 M-1 *Abrams*; up to 207 LAV-CP; up to 247 AAV; up to 72 M-198)

**ITALY****European Command****US Army Europe 3,312**

1 SETAF HQ Task Force located at Vicenza, It; 2 SETAF para bn located at Vicenza, It; 1 SETAF log unit (in store) (holds eqpt for Theater Reserve Unit (TRU)/Army Readiness Package South (ARPS)) with 116 M-1 *Abrams* MBT; 127 AIFV; 4 APC (T)

**US Navy Europe 4,048**

Base 1 located at Naples, It, 1 located at La Maddalena, It

**US Marine Corps 56****US Air Force 4,425****US Air Force Europe • 16th Air Force • US Air Force**

1 (HQ 16th Air Force) HQ (AF) HQ; 1 ftr wg (2 ftr sqn with 21 F-16C *Fighting Falcon*/F-16D *Fighting Falcon* located at Aviano, It); U-2

**JAPAN****United States Pacific Command****US Army 1,665**

1 HQ (9th Theater Army Area Command) located at Zama, J 1 HQ – HQ USARPAC

**US Navy 4,445****US Pacific Fleet • HQ 7th Fleet**

1 HQ (7th Fleet) located at Yokosuka, J; 1 MCM sqn located at Sasebo, J

**US Navy****SUBMARINES 2****TACTICAL 2: 2 SSN**

**Principal Surface Combatants** 9 at Yokosuka, J  
**Amphibious** 4 at Sasebo, J

**PRINCIPAL SURFACE COMBATANTS 9:**

1 *Kitty Hawk* (capacity 36 F/A-18 (2 F-18C, 1 F-18E and 1 F-18F sqns); 4 EA-6B *Prowler* ELINT EW ac; 4 E-2C *Hawkeye* AEW ac; 6 S-3B *Viking* ASW ac; 4 SH-60F *Seahawk* ASW hel; 2 HH-60H *Seahawk* SAR hel) (CV-63) each with 3 Mk 29 *Sea Sparrow* octuple each with RIM-7M/RIM-7P, 2 Mk 49 RAM with 42 RIM-116 RAM SAM

**COMMAND SHIPS • LCC 1: 1 *Blue Ridge*** (capacity 3 LCPL; 2 LCVP; 700 troops; 1 SH-3H *Sea King* utl hel) located at Yokosuka, J

**US Air Force 14,700****Marine Forces Pacific • US Marine Corps 17,850**

1 elems MEF div

**United States Pacific Command • PACAF • US Air Force 14,700****United States Pacific Command • PACAF • 5th Air Force**

1 Special Ops gp located at Okinawa – Kadena AB, J

**US Air Force**

1 5th Air Force HQ (AF) HQ (5th Air Force) located at Yokota AB, J

1 ftr wg located at Okinawa – Kadena AB, J (1 SAR sqn with 8 HH-60G *Pave Hawk*, 1 AEW sqn with 2 E-3B *Sentry*, 2 ftr sqn with 24 F-15C *Eagle*/F-15D *Eagle*); 1 ftr wg (2 ftr sqn with 18 F-16 *Fighting Falcon*) located at Misawa AB, J

1 airlift wg located at Yokota AB, J with 10 C-130E *Hercules*; 4 C-21 *Learjet*

**KOREA, REPUBLIC OF****United States Pacific Command • Eighth US Army • US Army****FORCES BY ROLE**

1 (UN comd) HQ Eighth Army located at Seoul, ROK; 1 elems HQ 2ID located at Tongduchon, ROK (1 avn bde (1 aslt hel bn, 1 atk hel bn), 1 armd bde (1 armd inf bn, 2 tk bn), 1 air cav bde (2 atk hel bn), 2 SP arty bn, 2 fd arty bn with MLRS); 1 SAM bn located at Uijongbu, ROK with MIM-104 *Patriot*

**EQUIPMENT BY TYPE**

**ARTY** 45: 45 mor/MRL/SP

**TK • MBT** 116: 116 M-1 *Abrams*

**AIFV** 126:

126 M-2 *Bradley* each with 2 TOW Msl, 1 30mm Gun

**APC** 111: 111 APC (T)

**Marine Forces Pacific • US Marine Corps 241****PACAF • US Air Force 9,044****7th Air Force**

1 HQ 7th Air Force HQ (AF) HQ (HQ 7th Air Force) located at Osan AB, ROK; 1 ftr wg located at Osan AB, ROK (1 ftr sqn with 20 F-16C *Fighting Falcon*/F-16D *Fighting Falcon*, 1 ftr sqn with 24 A-10 *Thunderbolt II*/OA-10 *Thunderbolt II* (12 of each type) located at Osan AB, ROK); 1 ftr wg located at Kusan AB, ROK (2 ftr sqn with 20 F-16C *Fighting Falcon*/F-16D *Fighting Falcon*); 1 Special Ops sqn

**US Army 21,372****US Pacific Fleet • US Navy 326****KUWAIT****United States Central Command****US Army Central Command • US Army 19,700****US Navy Central Command • US Navy 1,250****US Central Command Air Force • US Air Force 2,700****US Marines Central Command • US Marine Corps 1,600****KYRGYZSTAN****NATO 5****LIBERIA****UN • UNMIL 2; 6 obs**

**LUXEMBOURG**

European Command  
US Army 27

**MACEDONIA, FORMER YUGOSLAV REPUBLIC**

European Command  
US Army 3  
US Air Force 6  
NATO • KFOR I 37

**MEDITERRANEAN**

European Command  
US Navy 11,800  
US Marine Corps 2,200  
HQ 6th Fleet  
US Navy

**EQUIPMENT BY TYPE**

SUBMARINES • TACTICAL 3: 8 SSN

**AIRCRAFT CARRIERS**

CV/CVN 2: 2 CV/CVN

**PRINCIPAL SURFACE COMBATANTS 54**

CRUISERS 8: 8 CG  
DESTROYERS 12: 12 DDG  
FRIGATES 12: 12 FFG

**COMMAND SHIPS • LCC 1**

1 amphibious command ship (capacity 700 troops; 2 LCVP amphibious; 3 LCPL amphibious; 1 SH-3H *Sea King* ASW hel)

**AMPHIBIOUS 54**

PRINCIPAL AMPHIBIOUS SHIPS 15: 2 LHA; 4 LPD; 4 LPH; 5 LSD  
LS 7: 1 LKA; 6 LST

LOGISTICS AND SUPPORT 8: 1 AF; 2 AO; 1 AOE; 1 ATF; 1 Auxillary, ammunition carrier

US Marine Corps 1 MEU gp

**MIDDLE EAST**

UN • UNTSO 3 obs

**NETHERLANDS**

European Command  
US Air Force 260  
US Army Europe 291  
US Navy Europe 22  
US Marine Corps Europe 10

**NORWAY**

European Command  
US Air Force 38  
US Army Europe  
ARTY • SP • 155mm 36: 18 M-109 (Army Prepositioned Stocks (APS)); 18 M-198 (APS)  
US Navy Europe 22  
US Marine Corps Europe 11

**OMAN**

United States Central Command  
US Central Command Air Force • US Air Force 24

**PACIFIC**

United States Pacific Command  
US Pacific Fleet • US Navy 11,617 (at sea)  
HQ 3rd Fleet

**EQUIPMENT BY TYPE**

SUBMARINES 32

STRATEGIC 8: 8 SSBN

TACTICAL 24: 24 SSN

**PRINCIPAL SURFACE COMBATANTS 58**

AIRCRAFT CARRIERS 5: 5 CVN/CV

CRUISERS 13: 13 CG

DESTROYERS 24: 24 DDG

FRIGATES 15: 15 FFG

MINE WARFARE • MINE COUNTERMEASURES 2: 2 MCM

COMMAND SHIPS 2: 2 LCC

**AMPHIBIOUS**

PRINCIPAL AMPHIBIOUS SHIPS 8: 2 LHD; 1 LHA

LOGISTICS AND SUPPORT 8: 8 AG

Marine Forces Pacific 2,027 (at sea)

**PAKISTAN**

United States Central Command  
US Armed Forces 35 (Army/Air Force (*Op Enduring Freedom*))  
US Marines Central Command • US Marine Corps 18

**PORTUGAL**

European Command  
US Air Force 904  
US Army Europe 19  
US Navy Europe 39  
US Marine Corps Europe 8  
Support facility 1 located at Lajes, Por

**PUERTO RICO**

United States Southern Command  
Commander Naval Forces South • US Navy  
1 HQ located at Roosevelt Roads  
US Special Operations South  
1 HQ (SOCSOUTH) located at Roosevelt Roads

**QATAR**

United States Central Command  
US Army Central Command • US Army 170  
US Navy Central Command • US Navy 3  
US Central Command Air Force • US Air Force 215  
US Marines Central Command • US Marine Corps 75

**REPUBLIC OF MARSHALL ISLANDS**

US Strategic Command  
Strategic Defences - Early Warning  
RADAR • STRATEGIC 1: 1 DETECTION AND TRACKING RADARS located at US Army Kwajalein Atoll, RMI

**SAUDI ARABIA**

United States Central Command  
US Army Central Command • US Army 140  
US Navy Central Command • US Navy 23  
US Central Command Air Force • US Air Force 70  
US Marines Central Command • US Marine Corps 25

**SERBIA AND MONTENEGRO**

European Command  
US Air Force 36  
US Army Europe 1,765  
NATO • KFOR I 1,801

**SINGAPORE**

United States Pacific Command  
Marine Forces Pacific 24

**PACAF • US Air Force 46**  
1 log spt sqn located at Singapore, Sgp  
**US Pacific Fleet • US Navy 93**  
Support facility 1 located at Singapore, Sgp

**SPAIN**  
**European Command**  
**US Air Force 319**  
**US Army Europe 78**  
**US Navy Europe 1,070**  
**US Marine Corps Europe 193**  
Base 1 located at Moron, Sp  
**US Air Force 282**

**SUDAN**  
**AU-AUMIS 13 obs**

**THAILAND**  
**United States Pacific Command**  
**US Army 156**  
**US Air Force 29**  
**Marine Forces Pacific • US Marine Corps 29**  
**PACAF • US Air Force 30**  
**US Pacific Fleet • US Navy 10**

**TURKEY**  
**US Strategic Command**  
**Strategic Defences - Early Warning**  
**RADAR • STRATEGIC • SPACETRACK SYSTEM 1: 1**  
Spacetrack Radar located at Incirlik, Tu  
**European Command**  
Support facility 1 located at Ankara, Tu, 1 located at  
Izmir, Tu

**US Army Europe 60**  
**US Navy Europe 17**  
**US Air Force Europe • 16th Air Force 1,686**

**FORCES**  
1 air wg (ac on detachment only) located at Incirlik,  
Tu with F-16 *Fighting Falcon*; F-15E *Strike Eagle*; EA-6B  
*Prowler*; E-3B *Sentry*/E-3C *Sentry*; HC-130 *Hercules*;  
KC-135 *Stratotanker*; C-12 *Huron*; HH-60 *Seahawk*

**FACILITIES**  
Air base 1 located at Incirlik, Tu

**UNITED ARAB EMIRATES**  
**United States Central Command**  
**Air Force 45**

**UNITED KINGDOM**  
**US Strategic Command**  
**Strategic Defences – Early Warning**  
**RADAR • STRATEGIC 2: 1 BALLISTIC MISSILE EARLY**  
**WARNING SYSTEM BMEWS** located at Fylingdales  
Moor, UK  
**SPACETRACK SYSTEM 1: 1 Spacetrack Radar** located  
at Fylingdales Moor, UK  
**US Air Force**  
1 Special Ops gp located at Mildenhall, UK with 5  
MC-130H *Combat Talon II*; 5 MC-130P *Combat Shadow*;  
1 C-130E *Hercules*; 8 MH-53J *Pave Low III*

**European Command**  
**US Air Force 9,477**  
**US Navy Europe 791**  
1 HQ (HQ US Navy Europe (USNAVEUR)) located at  
London, UK  
**US Air Force Europe**  
1 ftr wg located at Lakeheath (1 ftr sqn with 24 F-  
15C *Eagle*/F-15D *Eagle*, 2 ftr sqn with 24 F-15E *Strike*  
*Eagle*); 1 tkr wg located at Mildenhall with 15 KC-135  
*Stratotanker*  
**US Marine Corps Europe 78**

**FOREIGN FORCES**  
Germany Air Force: some (joint jet pilot) trg sqn opcon  
NATO located at Sheppard AFB (TX) with 35 T-37B *Tweet*;  
40 T-38A *Talon*; some (primary) trg sqn opcon NATO located  
at Goodyear AFB (AZ) with Beech F-33 *Bonanza* Army: 1  
(battle) Army gp (trg) (Army trg area) with 35 *Leopard 2*; 26  
*Marder 1*; 12 M-109A3G Air Force: 37 *Tornado* IDS Strike/FGA  
ac located at Holloman (NM); Air Defence Missile trg located  
at Fort Bliss (TX)  
**Italy Air Force: 38** (flying trg)  
**Mexico Navy: base located at Mayport (FL)**  
**United Kingdom Air Force: 173**



Table 11 **Selected Arms orders and deliveries, Canada**

|             | Country<br>Supplier | Classification | Designation               | Quantity | Order<br>date | Delivery<br>date | Comment  |
|-------------|---------------------|----------------|---------------------------|----------|---------------|------------------|--|
| Canada (Ca) | dom                 | APC            | M113                      | 341      | 2000          | 2001             | Upgrade programme. Number of vehicles has been reduced to 289, with remainder placed in storage. Final Deliveries expected in 2007 |
|             | US                  | Hel            | Ch-148 <i>Cyclone</i>     | 28       | 2006          | 2008             | CaD1.8bn (USD1.5bn) In-service support for 20 years costing a further CaD3.2bn (USD2.7bn) Canadian designation is H-92 Cyclone     |
|             | dom                 | APC            | <i>Grizzly</i>            | 247      | 2000          | 2002             | Upgrade continues. Some to re-role   |
|             | dom                 | APC            | MILLAV <i>Bison</i>       | 199      | 2000          | 2002             | Upgrade continues. Existing fleet to re-role   |
|             | US                  | Arty           | M777 155m                 | 6        | 2005          | 2006             | Procured under Foreign Military Sales (FMS) programme with US  |
|             | US                  | FGA            | F/A-18C <i>Hornet</i>     | 80       | 2000          | 2003             | Upgrade to F/A-18 C/D status   |
|             | US                  | UAV            | <i>Sperwer</i>            | 4        | 2003          | 2003             | –  |
|             | US                  | MGS            | <i>Stryker</i>            | 66       | 2003          | –                | –  |
|             | dom                 | PCC            | <i>Orca-class</i>         | 6        | 2004          | 2006             | To be used primarily as a Training craft. First of class expected mid-2006. Final vessel due 2008. CaD69.7m (USD59.3m)             |
|             | dom                 | MRV            | <i>Joint-Support Ship</i> | 2        | 2004          | 2011-12          | CaD2.1bn (USD1.8bn)  |



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## Chapter Four

# Middle East and North Africa

### IRAN

Iran's relationship with the international community worsened following Tehran's resumption in August of the first steps of uranium enrichment activity. The International Atomic Energy Agency (IAEA) Board of Governors in September 2005 found Iran in non-compliance with its safeguards agreement, as required under the Nuclear Non-Proliferation Treaty. Despite strong international objections, Iran in January escalated the crisis by beginning small-scale enrichment and resisted a Russian proposal for a joint venture to undertake the enrichment for Iran's nuclear programme on Russian soil. This set the stage for the Board to report the Iran case to the UN Security Council (UNSC) in February.

The UNSC, though united in the opinion that Tehran should forego enrichment because this would give it greater capability to pursue nuclear weapons, has found difficulty in agreeing a path to resolve the issue. The Western members of the UNSC seek a mandatory requirement, under Chapter VII of the UN Charter, for Iran to suspend enrichment, and to be enforced by sanctions. Russia and China oppose any escalation that could lead to the possibility of military enforcement action.

Meanwhile, the US, UK and Saudi Arabia accused Iran of supporting insurgents in Iraq with material and training. However, on 16 March, Iran agreed to an offer by US Ambassador to Iraq, Zalmay Khalilzad, for talks. Although limited to Iraq issues, this would be the first official US–Iran bilateral dialogue since the 1979 Islamic revolution.

### IRAQ

The situation in Iraq remains uncertain, as democratic progress remains hampered by continuing political, sectarian and criminal violence. Despite the ratification of the constitution in September 2005 and successful parliamentary elections on 15 December, instability continues to undermine political progress. Moreover, voting in the elections was along sectarian lines, leading to victory for the Shia-led United Iraqi Alliance (UIA) with 128 seats (short

of the two-thirds majority required to form a government), followed by the Kurdistan Alliance with 53 seats; the remaining seats were divided among the leading Sunni party, the Iraqi Accord Front, with 44 seats; Prime Minister Allawi's joint Sunni–Shiite party with 25, and nine smaller parties.

Sectarian violence dramatically increased following the bombing of the Shia al-Askari shrine in Samarra on 22 February, which was seen as an attempt by jihadists to promote civil war. There were widespread reprisals by Shia militias for the attack, resulting in the deaths of some 350–500 people as well as attacks on many Sunni mosques. There were also reports of a growing number of people being displaced by the violence. In a reaction to the reprisals, Sunni politicians refused to participate in plans for a new unity government, raising again the spectre of civil war. Grand Ayatollah Ali al-Sistani led calls for restraint from the Shia community.

The insurgency has concentrated on the use of suicide attacks and improvised explosive devices (IEDs) to maintain a high level of instability. The mere threat of a suicide attack caused a stampede in a crowd of Shia worshippers at Baghdad's Khadhimiya mosque on 31 August 2005, resulting in some 1,000 deaths. On 4 and 5 January 2006 alone, more than 150 people were killed in suicide bombings in Baghdad, Karbala, Ramadi and Muqadadiya.

Attacks on coalition forces were also reported to have increased from 45 per day in March 2005 to 100 per day in October 2005. Some reports indicated that the overall number of attacks increased by 29% in 2005, with an estimated 10,953 IED attacks over the year. These caused 63% of US fatalities and 77% of injuries.

### Counter-insurgency

Reflecting a steady transition of the operational burden from US to Iraqi forces, 1,500 helicopter-borne US and Iraqi troops took part in *Operation Swarmer* on 16 March. This was the largest offensive air assault operation since the end of major combat operations in 2003. The operation targeted insurgent groups in and around Samarra and was the first time that Iraqi troops outnumbered US forces on a joint operation. However, it showed the total reliance of Iraqi forces on US air power.

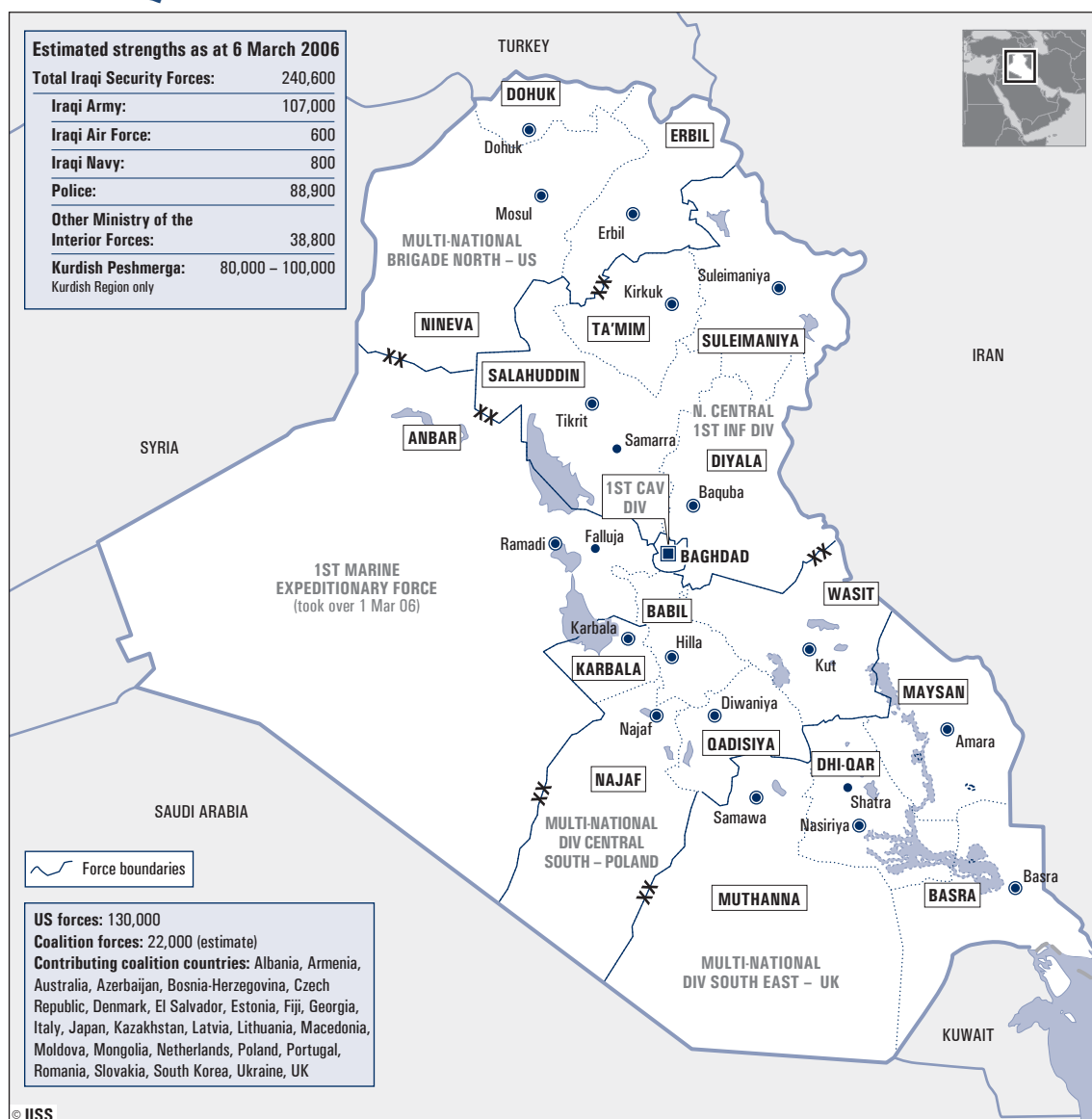
By 6 March 2006, Iraq's Security Forces numbered more than 240,000 personnel, with 127,000 answering to the Ministry of the Interior and 112,000 to the Ministry of Defence. The steady increase in declared numbers of indigenous forces has allowed both the US and UK to plan force reductions: the UK will reduce its forces by 800 personnel in May 2006, leaving some 7,000 deployed in southern Iraq; and the US plans to decrease its combat forces from 17 to 15 brigades (approximately 15,000 troops), bringing the total number of US troops deployed to 135,000, back down to below the levels preceding the December 2005

parliamentary election. Confidence in the capabilities of Iraqi forces has increased, albeit tentatively.

## JORDAN

In Jordan on 9 November there were bomb attacks on three hotels in Amman killing 62 people and wounding hundreds. Outrage at the bombings – one of which was aimed at a wedding party – created a backlash against al-Qaeda and Jordanian-born Abu Musab al-Zarqawi, who was believed to be behind the attacks. Mass demonstrations and rallies throughout

MAP 2 IRAQ





Jordan led to al-Qaeda issuing an unprecedented statement, which attempted to explain the rationale for the attacks, and which acted as a catalyst for regional states to voice increased opposition to extremist violence. At the Cairo conference of the Arab League on 19–21 November a declaration was issued, saying that 'while resistance is a legitimate right for all peoples, terrorism does not represent legitimate resistance, and accordingly we condemn terrorism'.

Earlier, on 19 August, three *Katyusha* rockets were fired at two US naval vessels moored in Aqaba. Neither the USS *Ashland* or the USS *Kearsage* – which were supporting the 26<sup>th</sup> Marine Expeditionary Unit during its training with Jordanian forces – were hit in the attack, which was believed to have been carried out by terrorists linked to al-Qaeda. However, one Jordanian soldier was killed in the attack.

## SYRIA – LEBANON

### Syria

Following the 12 December report of Detlev Mehlis, then head of the UN Investigative Commission, the UN voted to continue its investigation of Syrian involvement in the assassination of Lebanon's former Prime Minister Rafik Hariri. The Mehlis report concluded that complicity of high-level Syrian officials in the assassination was probable; that Syria had attempted to subvert and sabotage the investigation by intimidating witnesses and by destroying evidence; and that Damascus continues to foment instability in Lebanon by arming pro-Syrian factions. These claims were reinforced following the defection of former Syrian Vice-President Abdul-Halim Khaddam, when he made similar allegations at the end of December.

### Lebanon

Security in Lebanon remains a concern. There have been 14 murders of anti-Syrian personalities since the Hariri assassination, making reform of the security structures a priority. Capability assessments of defence forces are being made with the assistance of Western and Arab countries. Meanwhile, Lebanese politics remain fragile and complex. Dialogue among 14 different factional leaders began on 2 March, but was suspended five days later due to disagreement. The leaders reassembled on 14 March to discuss both shortening the term in office of pro-Syrian President Emile Lahoud, which is set to end in 2007, and UN Security Council Resolution 1559 of September 2004,

which calls for the disarmament of all militias.

Meanwhile, on 21 November, a Hizbullah force estimated to have been 50-strong attacked Israeli Defence Force (IDF) positions in the border village of Rajar. This was the first attack of significant size by the group since mid-2004. The attack comes at a time when Hizbullah is under increasing pressure to disarm from international and, increasingly domestic groups.

## ISRAEL – PALESTINE

Israeli deaths from Palestinian attacks dropped to 45 in 2005, down from a high of 452 in 2002. Moreover, the successful withdrawal of 8,000 Israeli settlers from Gaza and West Bank settlements in August and September 2005 introduced a new dynamic into the conflict. The IDF also withdrew from Gaza, dismantling all of its bases. The withdrawals caused the Likud party to split, and precipitated the foundation of a new centrist party, Kadima, led by Prime Minister Ariel Sharon. However, on 4 January 2006 Sharon suffered a stroke that left him in a coma; he was unable to continue in office. The leadership of the government, and Kadima, passed to Deputy Prime Minister Ehud Olmert, who led the new party to victory in the Knesset elections on 28 March. Kadima took 29 seats in the elections, while the former governing party, Likud, won only 12 seats. Ehud Olmert said that he would start negotiations with Palestinian President Mahmoud Abbas. However, if negotiations fail to yield results he said that he would establish permanent borders for Israel regardless of agreement with the Palestinians.

Hamas became the dominant political force in Palestine attaining 57% of the vote in parliamentary elections on 26 January. Having achieved electoral victory, and with the controlling influence in government, Hamas continued to refuse to recognise the state of Israel and maintained its right to retain arms. This presented the international community, and Israel, with a dilemma – a democratically elected group with a majority in parliament, yet one which could not be a negotiating party in the peace process. In this atmosphere, recognition of Israel and the renunciation of violence by Hamas became pre-conditions for continuing US aid and other concessions from Israel. It is believed that this will make it more difficult for Hamas to govern effectively in a situation that is complicated for President Abbas, himself a

member of the Fateh group which has lost power in government to Hamas.

On 13 March, 2006, the Israeli Defence Forces (IDF) laid siege to the prison in Jericho where Ahmed Saadat, head of the Popular Front for the Liberation of Palestine (PFLP) was being held. Four people were killed and 35 wounded in the ten-hour operation. British and US monitors evacuated the prison hours before the siege, leading to accusations from the Palestinian Authority of collusion in the operation.

## EGYPT

In 2005, Egypt held its first multiple-candidate presidential ballot, as well as holding parliamentary elections. As expected, the 7 September presidential poll re-elected President Hosni Mubarak with 88.6% of the vote. The parliamentary ballot, which ended on 7 December, saw allegations of vote-rigging, as well as violence in which 12 people died. Moreover, the Muslim Brotherhood – whose candidates ran as independents – took 20% of the new parliament's seats, indicating a less secular dimension in Egyptian politics; the party was previously banned from politics.

## GULF COOPERATION COUNCIL (GCC)

With the demise of the Ba'athist regime in Iraq, which was seen as the main threat in the region, the GCC is standing down its 'Peninsula Shield' joint mili-

tary force. However, there is a proposal to retain a joint military structure called the 'GCC Military Committee' which is expected to be approved at a summit scheduled for late 2006.

Meanwhile, the development of bilateral security, military and economic relationships with extra-regional states and organisations, including the US and NATO, is a growing trend among GCC countries. (see page 48).

The United Arab Emirates (UAE), is completing a ten-year, \$15bn defence procurement programme, which includes the final delivery of 80 Block-60 F-16s by mid-2006 (the first ten Block-60s were delivered on 3 May 2005). Meanwhile, in February 2006, the UAE signed a contract with Germany for the purchase of two Type 332 mine-hunters, which will be operational in mid-2006. Furthermore, in September 2005, Constructions Mécaniques de Normandie began building, in Cherbourg, the first of six *Baynunah*-class guided missile corvettes for the UAE; the remaining five are to be built by the Abu Dhabi Ship Building Company.

## SAUDI ARABIA

Saudi Arabia is planning to upgrade its national guard with a \$918m contract for internal security and defence equipment. This includes 144 armoured personnel carriers, riot control vehicles and an assortment of light weapons and communications equipment for counter-terrorist operations.

Table 23 Selected North Africa, Middle East, and GCC Exercises 2005–06

| Date               | Title   | Location                   | Type  | Participant Nations  | Participant Forces                                      |
|--------------------|---|----------------------------|---|--|---|
| Aug 2005           |   | Romania                    | Bilateral air exercise  | Israel, Romania  | IAF C-130E and CH-53; Romanian Puma assault helicopters |
| 30 Oc – 1 Nov 2005 | <i>Dolphin 2005</i>                               | Crete                      | Maritime exercise focusing on humanitarian aid and search-and-rescue operations   | Greece and Mediterranean Dialogue nations (Egypt, Algeria, Jordan, Israel, Morocco, Tunisia) | 1,100 personnel   |
| Nov 2005           | <i>Anatolian Eagle</i>                            | Konya, Turkey              | Coalition air exercises focused on air-to-ground attack                           | Israel, Turkey, US, Belgium and NATO   | Air assets, including Israeli F-16ls                    |
| Dec 2005           |   | Bandar Abbas, Persian Gulf | Land exercise   | Iran   |   |
| 3–4 Mar 2006       |   | Qeshm, Persian Gulf        | Air and sea exercise testing offensive strike capability against regional targets | Iran   | Iranian Air and Naval forces                            |
| 14 March 2006      | <i>Bahrain Shield One</i>                         | Bahrain                    | Joint force mobilisation exercise   | Bahrain, Jordan  | Bahrain Defense Forces and Jordanian paratroopers       |
| Summer 2006        | <i>Active Endeavor Maritime Security Exercise</i> | Mediterranean Sea          | Readiness exercise in support of Operation Active Endeavour                       | Algeria, Morocco, and NATO and Pfp nations   |   |

## NORTH AFRICA

It was reported that, on 17 January 2006, **Algerian** security forces killed Ahmed Zarabib, a leader of the Salafist Group for Preaching and Combat (GSPC). This group is believed to have lost popular support following a government campaign of reconciliation with former fighters. Meanwhile, to boost counter-

terrorism capability, the US has provided Algeria with military items, including night vision equipment. Algiers has signed with Russia a comprehensive multi billion dollar weapons purchase agreement including combat aircraft, main battle tanks air defence systems. **Tunisia**, meanwhile, has also enhanced its naval capability with the receipt of the last of six *Albatross* fast attack craft from the German navy.

## The evolution of the Iranian defence industry and military thinking

*As the commander-in-chief, I compel the authorities and commanders to enhance our armed forces, improve their ideological and military training, and develop the necessary expertise by moving towards military self-sufficiency, whatever the circumstances.*

— Ayatollah Khomeini

### HISTORICAL TRENDS

In 1979 a popular revolution swept through Iran, replacing a pro-Western monarch with a radical Islamist theocracy and changing the political map of the Middle East. The consequences can still be felt. The resulting Western military sanctions left Iran with almost no alternative but to pursue a path of self-sufficiency by gradually building up its own military-industrial complex which, according to official Iranian reports, today produces almost two thousand defence items, from munitions to aircraft, and from missile boats to satellites. Currently Iran exports military equipment to over 30 countries around the world, including seven in Europe. This essay describes the evolution of the Iranian defence industry: where it was 30 years ago; the change of requirements following the revolution, the outbreak of war with Iraq, and the effects sanctions had on Iran's thinking as it sought to achieve self-reliance, where it is now employing over 200,000 engineers, technicians and skilled workers; and where it is perceived to be in the future. To understand the trends shaping Tehran's defence industry, it is important to consider the logic behind many of its developments, not from a Western rationalistic point of view, but from the rationale of revolutionary nature: a drive which believes in thinking the unthinkable, and which tries to do the undoable.

### The beginning

The origins of the Iranian defence industry can be traced back to the 1920s, when the first gunpowder

and munitions factory in the Middle East was set up in Parchin south-east of Tehran, with the help of the Germans. Iran then purchased an aircraft assembly plant from Britain in 1935. The plant was fully operational – assembling *Hawker* biplanes imported in kit form from Britain – when the outbreak of the Second World War and occupation of Iran put an end to its activities. When Mohamad-Reza Pahlavi replaced his father on the throne in 1941, Iran once more became the recipient of much-needed Western military aid.

The influx of increasingly modern Western military hardware in the 1960s brought with it a large number of military advisors. The Iranian armed forces were heavily dependent on American and British advisors to maintain their weapons – a situation which could in the long term undermine Iran's sovereignty. Therefore, the Shah made the decision to decrease Iranian dependence on arms deliveries from abroad, and to create an indigenous weapons systems production and support capability.

The Shah was ambitious and wanted his armed forces to be amongst the most powerful in the world. Major contracts were signed with American and British companies to set up assembly lines in Iran for helicopters, aircraft, guided missiles, electronic components and tanks in Tehran, Esfahan, Parchin, Shiraz, Masjed Soleiman and Doroud in the early 1970s. Iranian defence and aviation industries also established close relations with Israeli companies.

The Iran Aircraft Industries (IACI) was established in 1970 at Mehrabad airport with the help of the Northrop Corporation, to function as a maintenance

centre for military and civilian aircraft. Iranian government and Italian and American companies, Agusta and Bell Textron, finalised an agreement which led to the formation of the Iran Helicopters Support and Renewal Company (IHSRC) in 1976 to maintain Iran's large helicopter fleet. The Iran Aircraft Manufacturing Industries (IAMI) was established in the same year in Shahin-Shahr near Esfahan, to produce Bell helicopters as part of a \$1.15bn contract. In Parchin, a complex for the production of chemicals, explosives and missiles was constructed both over ground and underground in tunnels dug into mountains. The Shiraz Electronics Industries (IEI) was created in partnership with Litton Systems, and infantry weapons were produced with the help of the German Heckler and Koch Company at a plant near Tehran. The large numbers of foreign 'advisors' coming to Iran as part of these projects, and some of their practices, led to growing resentment among some of the Iranian technical personnel, who felt they had been denied access to critical functions of the hi-tech systems which have been delivered.

A number of these projects were incomplete when the Islamic revolution, and the subsequent seizure of the US embassy in Tehran, severed relations with the West. The country was in turmoil, and the foreign military advisors left the country, leaving Iran with a huge military force, and a vast military industrial base, without a real purpose.

### Post-revolution

The turmoil which followed the revolution took its toll on Iranian defence capability, and many trained military officers and engineers emigrated. Those who stayed had to take over the mammoth task of running the systems at all costs, but at the same time, felt encouraged to improvise. The war with Iraq, which started in 1980, brought a new sense of purpose and urgency for maintaining available weaponry, and Iranian engineers and technicians worked hard to repair working systems and conclude unfinished projects.

The Iranian defence industries expanded. In November 1982, the Islamic Revolutionary Guards Corps (IRGC) also expanded to include a Ministry of IRGC (IRGCM), which erected arms factories of its own. The IRGCM was put in charge of military procurement and large amounts of money were allocated to munitions and weapons programmes, with the ministry's representatives travelling abroad to buy machine tools and raw materials. This resulted

in production lines being established for a wide variety of equipment and weaponry.

The other parts of the Iranian defence industries were under control of the Ministry of Defence and Armed Forces Logistics, which by 1982 were centralised under the Defence Industries Organisation (DIO).

## AVIATION INDUSTRIES

The Iran-Iraq War taught the Iranian leaders how vital a role airpower plays on the modern battlefield. However, given the overwhelming air superiority of potential new adversaries, the Iranians have concluded that huge investments in this field would be futile, and the level of government investment in the aviation sector has been limited compared to investment in the missile industries. As a result, Iranian aviation investment policy is focused on three main aspects; indigenising aerospace technologies for future applications; adapting available resources to modern operational tactics; and balancing expenditures with the national economy. Thus, the 'Aviation Industries Organisation of the Armed Forces' (AIOAF) was established to facilitate such transformation.

The AIOAF in turn set three goals in national aerospace policy making and oversight: providing and expanding basic aeronautical technologies, with emphasis on the integrated design of aerospace; 'smart weaponry' and 'globalisation' concepts; and creating a concentrated and modern management structure for the new technologies. However, strict guidelines and an insufficiency of employment benefits and privileges have led to a growing, but silent, frustration among the intellectual class of aerospace experts, resulting in a desire of some to leave the government sector.

Currently there are 19 state-owned centres around the country involved in aerospace and related activities, which employ over 100,000 technicians and engineers. But despite numerous efforts, the sector still suffers from a lack of competent management. A monopolistic approach and lack of transparency are inhibiting factors.

In the meantime the Iranian aviation industry is gradually transforming into a civilian-oriented entity, which may limit its military capability. Nevertheless, despite all these difficulties, the Iranian military support capability has reached a point where it can maintain every available equip-

Table 24 Major Joint Venture Defence Projects, pre-1979

| Organisation   | Main Partner                       | Activity  |
|--|------------------------------------|---|
| Iran Electronics Industries (IEI)                                | Litton Industries                  | US communications gear under license; as well as AGM-65 <i>Maverick</i> missiles  |
| Iran Aircraft Industries (IACI)                                  | Northrop Corporation/<br>Grumman   | Maintaining and modifying Iranian military and civilian planes and manufacturing spares for F-5 combat aircraft.            |
| Iran Helicopter Industries (IHI)                                 | Bell Helicopter Corporation        | Assembling tactical transport and attack helicopters, and providing logistics support for Iran's extensive helicopter fleet |
| Iran Helicopter (later Aircraft) Manufacturing Industries (IAMI) | Bell Helicopter Corporation        | Co-producing tactical transport helicopters and, later, aircraft  |
| Defence Industries Org (DIO)                                     | Leyland Motors                     | <i>Shir</i> MBT production (cancelled in early stages)  |
| Chemical Ind. Group of DIO – Parchin                             | SNPE, France,<br>Fritz Werner GmbH | Military explosives (incl. nitrocellulose, chemical cotton, etc.) and gunpowder   |
| Chemical Ind. Group of DIO – Esfahan                             | Chematur division of Bofors        | Military explosives (TNT, RDX, rocket solid propellant)   |
| Semnan Mil. Industries   | British Aircraft                   | <i>Rapier</i> missile   |
| Iran Electronics Industries                                      | Hughes                             | <i>Maverick</i> missile   |

ment and produce complete airframes. The next step will be the production of parts that would previously have been bought on the international market, including critical engine parts. There is also a need to master the prime technologies, currently only available in the civilian market, since importing military technology is constrained by sanctions.

The current strategy of the Iranian aerospace industry is moving towards the design and manufacture of aircraft, but also conducting life extension programmes on the available fleet. In the 1990s, Iran took advantage of the situation in the former Soviet Union and the newly emerging states, which were eager to sell excess strategic technologies for financial gain. The Iranian rush to gain as many contracts, in these favourable conditions, provided some opportunities for joint projects, such as project *Integral* (also known as *Shafagh*), which was a joint project between Iran's Aviation Research Centre (now part of the Malek Ashtar University) and the Russian Eurasia/Mukhamedov OKB to develop a jet trainer aircraft. But many of the projects did not go beyond mock-up stage because of poor management. The Iranians are now keen to continue some of these projects alone.

Arguably, Iranian national aerospace policy suffers from a lack of long-term planning; although it has succeeded in getting rid of its reliance on foreign sources in many major fields. For example the production of aircraft tyres at the defence industries complex in Doroud, Lorestan province, where the annual production capacity will reach 80,000 aircraft tyres of various types, makes Iran the first country in the Middle East, and seventh in the world, to acquire such technology.

Iran also has a capable helicopter industrial infrastructure, supporting the third-largest helicopter fleet in the world. The main company in this field is the IHSRC. Following the revolution, about 1,400 American personnel working for the IHSRC left the country, leaving behind an advanced industry which soon had to prove its worth in the lengthy war against Iraq. Continuous technical support and overhaul of the big helicopter fleet during the eight-year war was a remarkable feat. These two catalysts helped push Iran's aerospace industry forward and resulted in the naturalisation of technology and know-how, and training of skilled human resources. The IHSRC managed to survive international sanctions, and became self-sufficient.

### A potent Unmanned Aerial Vehicle capability

Since the Iran–Iraq War, Iran has prioritised the indigenous design and production of unmanned aerial vehicles (UAVs). During the war, Iraqi air defences prevented the Iranian air force from effective manned airborne reconnaissance, thus forcing Iran to develop increasingly capable UAVs.

The main organisation in charge of developing UAVs in Iran is the Qods Aviation Industries. It was formed in 1985 to design and produce a variety of cost-effective UAVs from composite materials and designed for missions such as battlefield reconnaissance, surveillance, attack, electronic warfare, communications relay, traffic and border control, cartographic, training, decoy, and aerial targeting. The organisation came under the auspices of the Ministry of IRGC, but later merged into the DIO in 1992, when the IRGCM



was merged into the MOD, creating the Ministry of Defence and Armed Forces Logistics. Since 1998, Qods operates as part of the AIOAF.

Iran also reported in October 1997 that it had successfully tested a 'stealth' UAV during naval exercises in the northern Persian Gulf. It was claimed that the UAV flew very close to the US Navy aircraft carrier, USS *Nimitz*, undetected. That UAV was a modified Qods composite drone. Qods also develops its own navigation and guidance systems.

The more established IAMI has also developed several UAV variants, named *Ababil*. Over 150 *Ababil* UAVs have been delivered so far, and IAMI has offered the system to other countries, including Malaysia. Currently IAMI is designing a new generation of jet-powered UAVs, named *Ababil-Jet*, equipped with an indigenous jet engine, developed from a French design, at IACI. These UAVs made news when the Lebanese group, Hezbollah, used an IAMI *Ababil-3* drone to perform reconnaissance missions over northern Israel, in February 2005.

### MISSILE INDUSTRIES – FILLING THE MISSILE GAP

Not being able to respond proportionate to large-scale Iraqi air and missile attacks against the Iranian population and economic centres, with an added uncertainty over the continuity of missile supplies from abroad, Iranian leaders decided to develop their own missile industry. As well as making attempts to obtain more *Scud-B* missiles from Libya, Syria and North Korea, Iran also initiated its own surface-to-surface missile projects, run by two organisations - DIO and IRGCM. The DIO built the solid-propellant *Oghab* (*Eagle*) artillery rocket with a 40km range, which was first fired by the Iranian air force at Basra on 7 December 1986. The IRGCM then sought to construct a *Scud-B* production line from North Korea, and the plant was under construction in October 1987. The shock of Iraqi attacks on Tehran reportedly using modified *Al-Hussein* missiles, which started in March 1988, only hastened Iranian missile development efforts.

Plans were also made to produce HQ-2 (a Chinese version of the Russian SA-2 SAM) and HY-2 ('*Silkworm/Seersucker*') anti-ship missiles. With constant attacks against Iranian shipping and oil installations in the Persian Gulf, there was added impetus to develop these systems.

On the tenth anniversary of the end of the war, the Aerospace Industries Organisation (AIO) was

formed in parallel to the AIOAF. So it is a relatively newly established division created from the integration of all the scientific centres working on missile R&D and production projects, which are mostly named after the war martyrs, such as the Shahid Hemmat Industrial Group. The main purpose behind this concept has been to pool all the available resources throughout the missile industries, whether they used to be under the control of the DIO, or the IRGC. The policy has saved money and prevented duplication of efforts.

The AIO product line includes the advanced versions of *Toofun/Toofun-2* (versions of TOW and I-TOW), *Ra'd*, *Ra'd-2* and *Ra'd-T* (versions of 9M14 *Malyutka/AT-3 Sagger*) and 9K-113M *Konkurs-M* anti-tank missiles with improved performance warheads; SA-7 (9K32), and *Misaq/Misaq-2* (licensed versions of the Chinese QW-1/QW-1M) MANPADS; aerial bombs, *Noor*, *Kowsar/Kowsar-1*, and *Ra'd* anti-ship missiles; HQ-2, *Sayad-1/Sayad-1A*, and *Shahab-e Thaqeb* (a copy of the Chinese FM-80) high and medium altitude SAM missiles; various types of torpedoes; *Fajr-3/-5* short-range artillery rockets – the latest version carrying the *Zolfaghar* multiple warhead capable of hitting multiple targets; *Shahin* air and ground-launched artillery rockets; *Naze'at* medium-range rockets which replaced *Oghab* in production; the medium-range *Zelzal* artillery rockets featuring Chinese solid propellant technology; *Fateh-110* surface-to-surface missile, and finally the *Shahab* family of liquid and solid-fuel SSMS. The range of these rockets and missiles vary from 45 to 75km for *Fajrs*, 100 to 150km for *Naze'ats*, 200 to 250km for *Zelzals*, and 300 to 2,000km for *Shahab* missiles.

The *Shahab-1* is basically the same *Scud-B*, with some small improvements. *Shahab-2* is a copy of *Scud-C*, and *Shahab-3* is an enlarged version of the generic *Scud*, it being the Iranian version of the North Korean *NoDong-1* missile (itself a derivative of the *Scud-B*), also incorporating technologies derived from Russia and China, plus numerous indigenous improvements. The latest improvements are the addition of a new manoeuvrable warhead and solid propellant which has increased shelf-life, stability and accuracy at reduced cost. There are many commonalities between the members of the *Shahab* family. Iran has an active relationship with North Korea in the ballistic missile field, and receives missile parts and sub-systems in exchange for test data. Iranian experts are now trying to optimise *Shahab-3*'s flight

characteristics to make it harder to intercept by anti-missile missiles, such as *Arrow* and PAC-3.

In February 1999 Iran announced that it would test the motor for a new space rocket, just six months after the successful launch of the medium-range *Shahab-3* missile. In July 1999, Iran launched the missile, with a range of 1,300 km (800 miles), with a second successful test launch being conducted more recently. By 2000, the *Shahab-3* project had cost Iran around \$600m, and while Iranian defence officials maintain that they do not intend to develop any missile with a range greater than the *Shahab-3*, they continue to work on new technologies and capability, under the cover of space launch research. Thus, *Shahab-4* is described as an indigenous civilian rocket intended to launch satellites into terrestrial orbit. And it is known that the next goal of the Iranian defence industry is to produce its own reconnaissance and military communications satellites, as well as space launchers.

Throughout the past decade, Iran has been trying to develop, together with Russia, its own telecommunications satellite. Work started during the 1990s on a satellite called *Zohreh (Venus)*, but technical and financial problems prevented completion of the project. The satellite was intended to be stationed in orbit at 36,000 km – 26° N and 34° E – and would provide 12 channels in both L-band and Ku-band.

Iran also maintains a comprehensive defence electronics industry, mainly concentrated near Shiraz. Iran Electronics Industries (IEI) supplies the Iranian armed forces with communications and precision measurement equipment; radars and sonars; radar altimeters; tank fire control systems; night vision goggles; IR-guided anti-tank missiles; laser gyros; high capacity electro-motors; LCD displays; electronic parts and instruments including micro-electronic computer chips; EO, IR and thermal imaging equipment; naval and air navigation systems; ECM and ECCM equipment including chaff dispensers and deception jammers; direction finders; encrypting and decrypting equipment; guidance units for smart munitions; simulators and software. IEI collaborates with numerous domestic and foreign companies, many of which are in Europe.

Today's Iran might seem a less modern military power compared to the Shah era, but it would be more of a quantitative than qualitative comparison. Although strained by the long war with Iraq, Iran has since been able to rebuild its military power, put into use the experience it has gained from the war,

and more importantly to create an industrial infrastructure which is capable of meeting nearly every requirement of the Iranian armed forces. By obtaining a design capability, Iran is now capable of manufacturing systems adapted to its specific requirements and environmental conditions.

## MARITIME INDUSTRIES

In the maritime industrial sector, while Iran has been trying to narrow its technological gap with the developed countries, it has also pursued a unique, and arguably effective, doctrine of 'naval asymmetrical warfare'. The Persian Gulf skirmishes of 1984–88 taught Iran that it could only sustain combat with a technologically superior navy through the use of innovative tactics and techniques. However, another lesson the Iranians learned was the need to integrate such asymmetrical tactics with modern technology, which ever since has driven Iran's maritime industrial effort. This includes developing and building up an increasingly diverse arsenal of shore-based and small boat-based anti-ship missiles, midget and medium submarines, special communications and targeting gears, and fast and manoeuvrable small- and medium-size missile boats.

The new Iranian doctrine includes forming completely autonomous mobile shore-based missile batteries and missile boat teams which offer as little detectable signature as possible. For Iran, 'stealth' means being small, mobile and built of composite materials, without relying on radar-homing guidance, with the purpose of defeating radar detection or electromagnetic jamming. Therefore, *Kowsar* missiles are called 'stealth' in Iran, because they use autonomous TV-homing guidance to find their target. Various projects of significance include several catamaran projects, *Zoljenah*, *Zolghadr*, *Falagh-2*, *Azarakhsh*, and *Ashura* torpedo and missile boats, *Unes 22* hovercraft, and two ground-effect flying boats.

## LAND EQUIPMENT INDUSTRIES

Iran is trying to develop – or modify – equipments which conform to the unique environmental condition of the country. Its major military industrialisation plan also includes design and fielding of a main battle tank called *Zolfaghar* (the double-bladed sword of the prophet Mohammad's nephew), which in its latest version – *Zolfaghar-3* – is almost identical (externally) to the American M-1 *Abrams* tank. However, despite

the fact that the original design phase began in 1991, and the first prototype of the 40-tonne tank was ready in three years, the *Zolfaghar* has yet to complete its test programme and enter series production.

Besides *Zolfaghar*, Iran's major ground forces projects include the *Boragh* and *Cobra* tracked APCs; the *Rakhsh* wheeled APC; *Scorpion* light tank variant with a diesel engine (*Shahin 81*); M-113 and modified tank-carriers; *Challenger* MBT (re-engined Chieftain); *Takavar* tactical vehicles; and a T-72 licensed production line, complete with reactive armour and a laser designation warning system, in Doroud. Iran is markedly less ambitious in this sector, pointing to the fact that it expects a lesser threat on the ground than on the sea.

Various infantry weapons are also manufactured, which include the *Kheibar* 2002 automatic assault rifle; the reverse-engineered S-5.56 rifle (a copy of the American M-16), machineguns and sniper and anti-material rifles, night scopes and grenade launchers; surveillance radars and rangefinders; and mortars and rocket launchers.

### ARMED FORCES AND SELF-SUFFICIENCY

In addition to defence industries, individual services of the Iranian armed forces have developed their own production and overhaul capabilities under the title of 'self-sufficiency jihads' (or Task Forces) within their own organisations. They include various innovative system modifications, new or modified weapons systems, ECM and communications and jamming/deception equipment, simulators, tester sets and power train replacements.

Since the 1980s, the 'self-sufficiency jihad' directorates have frequently used the assistance of Iranian industrial universities – including Sharif, Amir Kabir, Shiraz and Esfahan universities – within which students work on projects under the supervision of their professors. For example, in 1986 the Sharif Industrial University had been working on no less than 60 military projects, as well as holding training courses for the military technical personnel.

### THE FUTURE

The Iranian defence industry has a long list of achievements, and is determined to continue the momentum. With an eye on international export markets, in the future Iran will increasingly focus on stealth technology, by introducing radar-absorbing

coatings, smart systems and precision guided munitions, as force multipliers. Iran will also field as many of its R&D projects as budgetary constraints allow, although the defence sector will require management reorganisation if it wants to do so effectively.

With the missile industry approaching its saturation point, more funding may be allocated to aviation, which will result in collaborative design and development of advanced fighter aircraft and transport planes. Despite efforts to rectify existing problems, this sector is perhaps the least developed in the Iranian defence industry, suffering mainly from management problems. Also already benefiting from the high oil prices is Iran's advanced laser programme, which aims at creating a lethal capability by the end of the decade.

It is expected, that Iran will attempt to put a small reconnaissance satellite into orbit this year, using the Iranian Launch Vehicle (IRLV) – an enlarged *Shahab*. In the future Iran is expected to develop a much larger launch vehicle based on ex-Soviet ICBM technologies. This capability will give Tehran the option of launching heavier payloads to higher orbits, or larger warheads at greater range.

### A VERSE ON DETERRENCE

In an interview in February 2003, then Iranian Defence Minister Vice-Admiral Ali Shamkhani emphasised Iran's need to develop weapons against a broad spectrum of threats, both domestic and foreign.

In designing its defence doctrine, Iran has taken notice of the changing circumstances and strategic structures at domestic, regional and international levels. Iran's defence structure is based on a foundation of so-called 'strategic deterrent defence', to complement the available diplomatic means. However, Iran is also careful not to adopt an offensive posture. Therefore Iran's strategy is to absorb a first strike, and then to initiate immediate retaliation with all means available, but only if such a move serves the political ends, and does not threaten the very existence of the Islamic regime. Iranian leaders believe an effective defensive deterrence can force their enemies to relinquish their threats of pre-emption, believing that such a move would be too costly.

Therefore, Iran has reinforced its defensive deterrence posture with the required military means, based on the principle that in the current unstable regional situation, a potent military power is the basis of security. Therefore, following the end of the war with

Iraq in 1988, Tehran steadily built up its indigenous defence industry to support this principle.

### **Deterrence by all means**

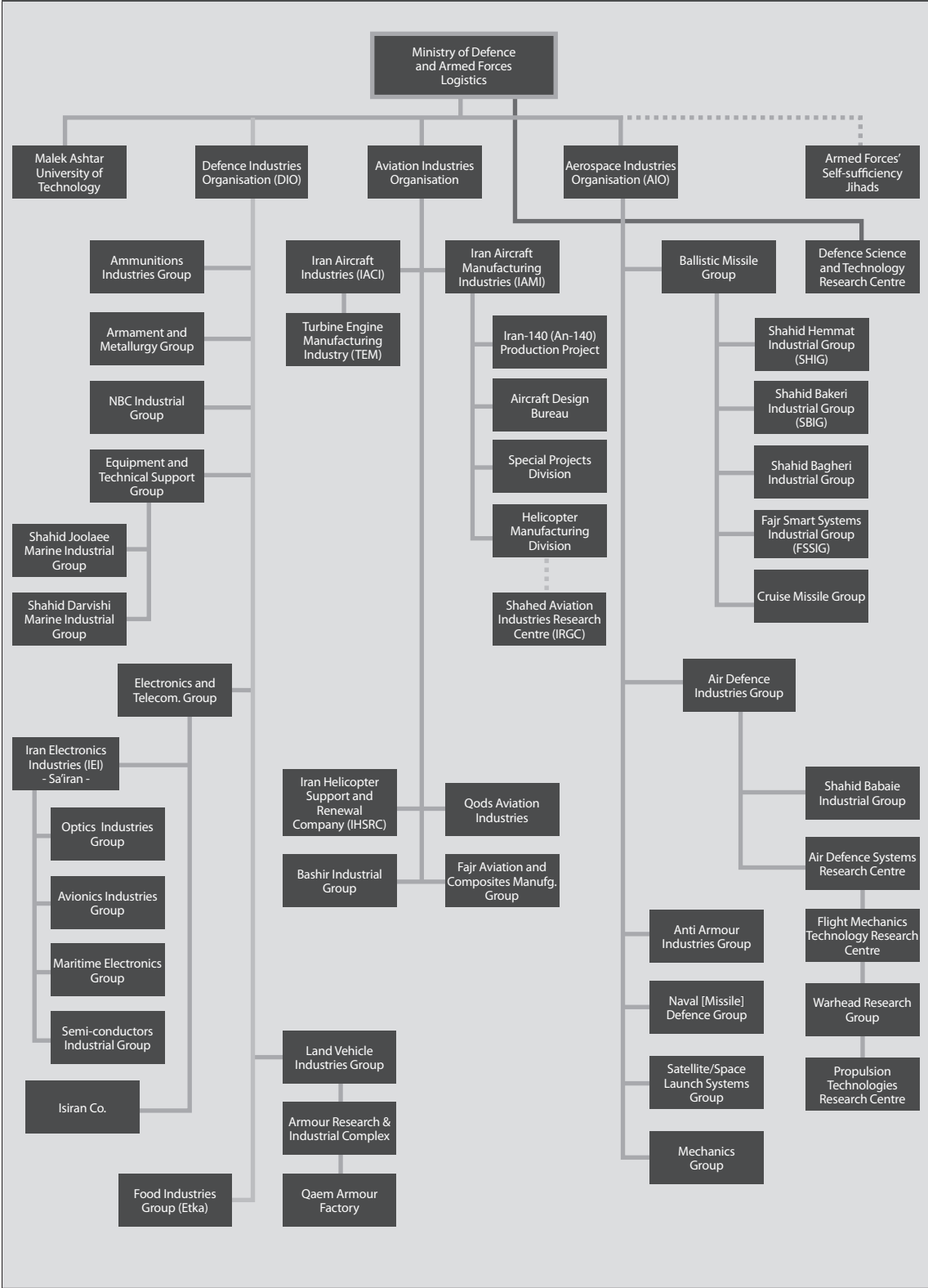
‘What is the Iranian military mindset?’ Samuel Huntington describes the military mind as the unique or functional aspect of the military. So in tune with Huntington, one may try to explore that mindset in three steps: looking at its ability or quality; its attributes or characteristics; and finally its attitudes or substance. By exploring the ideals of the Iranian defence decision-makers, their intentions are clear. They are building an industrial setting for their military capability in order to obtain reliable deterrence. Religious zeal alone cannot bring deterrence. Years of war have turned the Iranians into military professionals, who have learnt from their experiences, as well as from those of others. A generic outcome of such experience has been a sense of insecurity, which generates a quest for strength. In the case of Iran this means deterrence.

Recent events in Iraq have shown, once more, the merits of high technology, and its force-multiplying effects. Iranian defence doctrine, highlighted

recently by the Iranian Defence Minister Brigadier Mostafa Najjar, calls for obtaining strategic deterrence through optimisation of military capabilities, and that is not seen to be possible without an advanced and innovative defence industry. This motive has been the most important driving force behind the investment in advanced technologies in the Iranian defence sector.

Therefore Iran aims to achieve more mobility and flexibility by improving the quality of its defence products; and incorporating ‘smart’ capabilities. Iran has made considerable progress in the field of micro-electronics, and has shown a capability to produce ‘smart’ systems, such as munitions capable of precision targeting. It intends to incorporate these force-multiplier capabilities in aerospace, armour, naval, missile and vehicle military industrial sectors, and to supply its large Basij (mobilised volunteer) forces with as many hi-tech capabilities as possible. Iran is also expected to invest heavily in the coming years in Command, Control, Communications, Computers, Information (C4I) and information management/distribution capabilities, as well in information and psychological warfare techniques.

Table 25 Building Blocks of the Islamic Republic of Iran's Defence Industry (1969–Present)





## MIDDLE EAST AND NORTH AFRICA – DEFENCE ECONOMICS

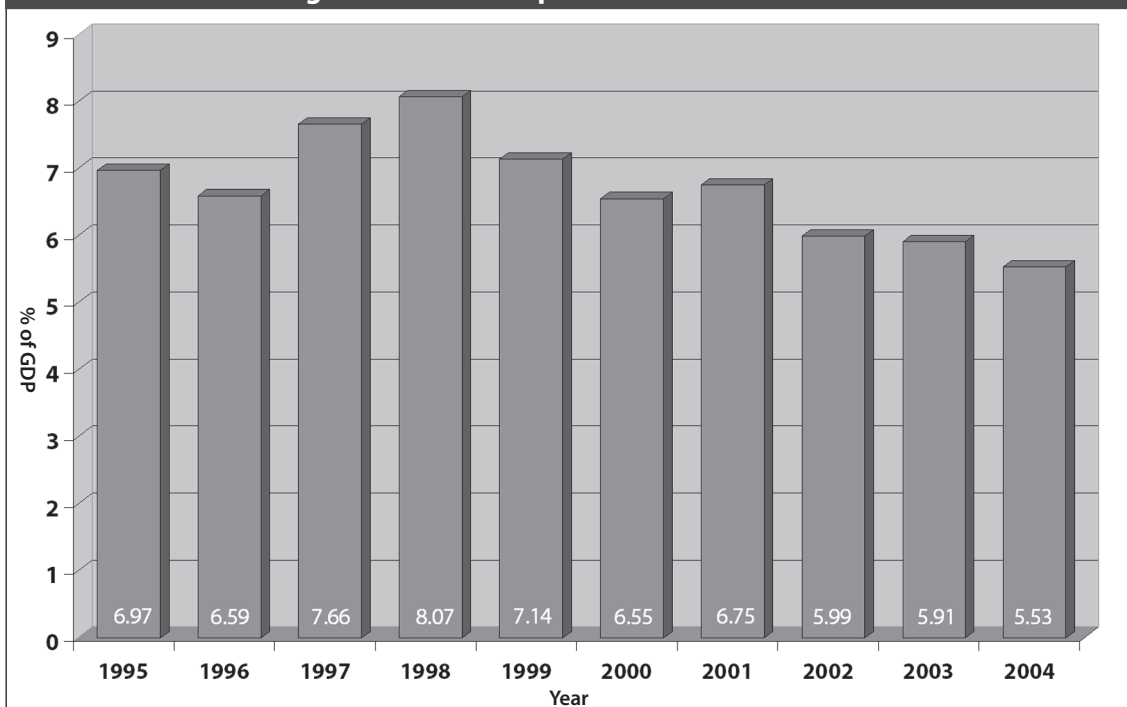
Not surprisingly, in the wake of booming global oil markets, **Saudi Arabia** recorded a massive budget surplus of \$57bn in 2005 and increased spending on defence and security by 21%, to SR95bn (\$25.3bn), compared to 2004. As has been the case in recent years, in 2005 government expenditure was substantially higher than originally outlined in the budget, reaching a total of \$91bn compared to the original budget projection of just \$75bn. No details about where the extra expenditure occurred are available.

Following several years in which it has failed to initiate any major new arms purchase agreements, Saudi Arabia returned to the international weapons market with a significant aerospace deal and suggested that further procurement may follow. Under the agreement, valued at approximately \$16bn, Saudi Arabia will purchase a minimum of 72 Eurofighter *Typhoon* multirole fighter aircraft. Following visits to the Kingdom by both Tony Blair and UK Secretary of State for Defence John Reid, a memorandum of understanding to this effect has been signed; however, negotiations detailing the final financial terms and the number of aircraft are

continuing. The Saudis are reportedly keen for rapid deliveries of the new aircraft to begin; they will replace the Royal Saudi Air Force's (RSAF) *Tornado* Air Defence Variants delivered in the 1980s, and it has been suggested that they could receive an initial batch of 24 Tranche 2 aircraft, originally intended for the UK, as soon as 2008. The deal also includes the upgrade of the RSAF's fleet of Interdictor-Strike *Tornado* from GR1 to GR4 standard. Central to both the *Typhoon* sale and *Tornado* upgrade work is the provision to transfer an increasing amount of the ongoing support and maintenance requirements to Saudi companies, in particular the Riyadh-based Alsalam Aircraft Company, as part of a growing initiative by the government to develop its capability by undertaking as much routine military maintenance as possible domestically.

The Ministry of Defence has also signalled its intention for new investment in the Saudi Arabia National Guard (SANG). The SANG is currently investigating upgrading its fire-support capability with the purchase of a new towed or self-propelled artillery system. Whilst the SANG already operates around 30 155mm and 105mm towed artillery systems, it is thought that the mechanised brigades require a more mobile system, such as the

Table 26 Middle East Regional Defence Expenditure as % of GDP



BAE Systems 155mm M777 towed gun or Denel's 105mm self-propelled platform. In addition to its interest in new artillery systems, the SANG has requested from the United States the purchase of around \$1bn worth of armoured personnel carriers, water cannons, command and control vehicles and a variety of trucks, ambulances and ammunition. The Defense Security Cooperation Agency, which handles the sale of US military equipment, also notified Congress of two other proposed sales to Saudi Arabia: a \$760mn package for continued technical and logistics support for American-built aircraft, aircraft engines and missiles and a \$400m request for the purchase of 165 Link-16 Multifunctional Information Distribution Systems and 25 Joint Tactical Information Distribution System terminals.

Higher oil prices were also responsible for strong economic growth in **Algeria**, where real GDP grew by an estimated 6.4% in 2005. Oil and natural gas export revenues of \$30bn accounted for more than 95% of total export revenues, around 70% of fiscal revenues and 40% of GDP. As a result of higher government revenues, Algeria finally signed a significant multi-year arms procurement package from Russia, amounting to as much as \$7bn. Likely acquisitions are thought to include: 36 MiG-29s; 28 Su-30 fighter aircraft, eight battalions of S-300 air defence systems, 300 T-90 tanks, Yak-130 trainer aircraft, as well as the upgrade of many Soviet-made weapons systems already in Algeria's possession. As part of the deal, Algeria will return 36 MiG-29 aircraft purchased in the 1990s from Belarus to the Russian aircraft corporation MiG. Under the terms of the contract Russia will write off \$4.7bn – Algeria's total debt to Russia – once the cash element of the purchases has been completed. In return, the Russian energy companies

LUKoil and Gazprom will gain access to Algeria's oil and gas reserves. Although Algerian defence expenditure, as measured by the official National Defence Budget, has remained stable at around 3–4% of GDP since 1993, it is likely that these funds only cover operational expenditure and that the purchase of actual military equipment comes from different sources, adding as much as 50% to the official figure.

As noted in the previous edition of *The Military Balance*, **Iran** has had one of the strongest performing economies in the region in recent years thanks to a successful diversification policy that has resulted in the manufacturing and agriculture sectors accounting for one-third of GDP and the service sector accounting for about half of GDP. However, the IMF has expressed concern that Iran is wasting its current economic good fortune by increasing government spending on public sector projects and subsidies on basic foodstuffs and fuel – this trend was highlighted with the publication of the 2005 budget which anticipated a record deficit of IR71 trillion. While there is no accurate way of determining real defence expenditure in Iran, the IMF has published data quoting an official defence budget; it also commented that the true figure is almost certainly higher when other factors such as the substantial subsidies to the domestic defence industry, not to mention the possible costs of a nuclear weapons programme, are included. In addition, the official budget probably does not include expenditure on research and development (R&D), the Revolutionary Guard and other paramilitary forces. When these additional elements are considered, the real level of military-related expenditure could be at least double the official budget. The Iranian regime has made no secret of its intention to build up the

country's defence-industrial capability in order to reduce dependency on external arms suppliers and claims to have numerous ongoing conventional weapons programmes across a range of land, sea and air applications. Many of these are either licenced (from Russia), or indigenous efforts to copy foreign equipment without a licence and, as a result, R&D outlays are likely to be fairly substantial, certainly in regional terms. However, despite possessing an advanced indigenous defence and technology industry,

**Table 27 Saudi Arabia: Original Budget Allocations**

| (SRbn)                            | 2002           | 2003           | 2004           | 2005           |
|-----------------------------------|----------------|----------------|----------------|----------------|
| Human Resources Development       | 47,037         | 49,609         | 55,832         | 69,899         |
| Transport & Communications        | 5,464          | 5,634          | 6,352          | 8,629          |
| Economic Resource Development     | 4,969          | 6,927          | 7,020          | 10,516         |
| Health & Social Development       | 18,970         | 16,767         | 17,971         | 23,057         |
| Infrastructure Development        | 2,693          | 2,544          | 2,620          | 3,292          |
| Municipal Services                | 7,965          | 5,393          | 6,192          | 8,976          |
| Defence & Security                | 69,382         | 70,303         | 78,414         | 95,146         |
| Public Administration             | 39,316         | 44,848         | 49,936         | 51,665         |
| Subsidies                         | 5,831          | 6,600          | 5,276          | 8,318          |
| <b>Total Budgeted Expenditure</b> | <b>202,000</b> | <b>209,000</b> | <b>230,000</b> | <b>280,000</b> |
| <b>Final Budget Expenditure</b>   |                |                | <b>295,000</b> | <b>341,000</b> |

Iran is still a major purchaser of weapons systems from other countries, mainly Russia and China, and has substantial long-term energy agreements with both countries. In December 2005, Russia and Iran announced a major new arms deal, the biggest between the two countries for over five years, valued at \$1.5bn. Under the procurement package, Iran will receive 32 Tor-M1 low-to-medium-altitude surface-to-air missile systems and an unspecified number of patrol boats and Russia will upgrade Iranian Su-24 attack aircraft, MiG multirole fighter aircraft and T-72 main battle tanks. Although the deal drew negative comments from the US and Israel, Russian Defence Minister Sergei Ivanov rejected the criticism, saying that the nature of the weapons involved in the deal was 'purely defensive'.

The intifada has had a disastrous impact on the **Israeli** government's financial position. By 2003, the weak economy compounded by additional military-related expenditures had pushed the government into a deficit measuring 5.6% of GDP. The worsening economic situation forced the government to introduce a recovery plan that comprised a raft of initiatives including expenditure cuts and tax reforms in addition to a package of loans from the United States and by 2005, GDP growth had rebounded to 3.5% and the budget deficit had narrowed to 3.4% of GDP. However, when it was originally presented, the recovery plan anticipated a reduction in the budget deficit to 3% of GDP by 2005 and 1% of GDP by 2007. The IMF has indicated that this goal is highly unlikely to be achieved and, as such, pressure will remain on all areas of government expenditure, including defence.

As a result of the difficult financial environment the defence budget has fallen from NIS37.1bn in 2001 to NIS33.7bn in 2006. In addition to the allocation from the state budget, Israel is also the recipient of a substantial amount of US Foreign Military Financing (FMF), which in 2006 amounts to US\$2.34bn and is intended primarily for the purchase of US military equipment. While this annual funding has helped the Israeli Defence Force (IDF) to acquire some of the most sophisticated weapons systems available, the current backlog of orders, in particular orders for 102 F-16 fighter aircraft and 18 *Apache Longbow* helicopters, means that FMF funds are now fully allocated through until 2009. As a result, Israel is believed to be in negotiations with the US Defense Security Cooperation Agency to try to reschedule FMF payments in order to ease the financial squeeze. Procurement difficulties were eased slightly by the

German government's decision to provide a third of an estimated €1bn cost for the purchase of a further two *Dolphin*-class submarines to add to the three vessels already operated by the Israeli Navy (IN). In the early 1990s Germany donated the first two submarines to the IN, after it was discovered that German companies had been involved in Saddam Hussein's weapons programmes, and Israel was hopeful that Germany would fund a larger portion of the latest acquisition as a gesture to mark the 50<sup>th</sup> year of the establishment of diplomatic relations between the two countries. The IN will also benefit from the acquisition of seven additional multi-mission fast patrol craft, propelled by water jets that will enable them to operate in shallow waters around the southern border with Gaza.

The IDF continues to allocate its funds based on the perceived reduction of a conventional threat to Israel, concentrating instead on operations at both ends of the conflict spectrum: low technology urban operations against the Palestinians and the growing threat of advanced non-conventional missile technology in Iran. This policy, together with budget constraints, has led to a five-year plan to reduce the size of the army by 25% and to retire many of its older platforms. After years of investment in heavy platforms, attention has switched to updating infantry capabilities and the introduction of a sophisticated C4I system. Known as 'Project Tsayad', the five-year \$900m Digital Army Programme will create an all-IDF network, enabling land, air and naval forces to interconnect through secure broadband communications. In October 2005 the first phase of the project, which enables senior commanders as well as the prime minister and defence minister to view maps and aerial images of all the IDF's theatres of operations, was successfully launched. In addition, this element of the system will enable the prime minister to examine strikes proposed by the IDF, negating the need for military personnel to physically appear before decision-makers to present plans.

The air force's main investment at present is the ongoing acquisition of 18 AH-64D *Apache Longbow* attack helicopters as well as continued development of the anti-ballistic missile Arrow Weapon System. Non-US procurement is allocated to the local development of a wide variety of Unmanned Aerial Vehicles. It remains unclear whether plans to acquire new tankers, early-warning aircraft and C-130 transports have been indefinitely deferred due to budget constraints.

## Algeria Ag

| Algerian Dinar D |      | 2004   | 2005   | 2006 |
|------------------|------|--------|--------|------|
| GDP              | D    | 5.50tr | 6.70tr |      |
|                  | US\$ | 77.5bn | 91.8   |      |
| per capita       | US\$ | 2,411  | 2,821  |      |
| Growth           | %    | 5.3    | 6.7    |      |
| Inflation        | %    | 3.6    | 4.7    |      |
| Debt             | US\$ |        |        |      |
| Def bdgt         | D    | 201bn  | 209bn  |      |
|                  | US\$ | 2.84bn | 2.87bn |      |
| US\$1=D          |      | 71     | 73     | 71.1 |

Population 32,531,853

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 15%  | 6%    | 6%    | 5%    | 17%   | 2%      |
| Female | 14%  | 6%    | 6%    | 5%    | 17%   | 2%      |

## Capabilities

**ACTIVE 137,500** (Army 120,000 Navy 7,500 Air 10,000) Paramilitary 181,200

*Terms of service* Army 18 months (6 months basic, 12 months civil projects)

**RESERVE 150,000** (Army 150,000) to age 50

## ORGANISATIONS BY SERVICE

**Army 45,000; €75,000 conscript; 150,000+ reservists (to age 50) (total 270,000)**

### FORCES BY ROLE

|  |  |
|--|--|
| 6 Mil Regions; re-org into div structure on hold |  |
| Armd   | 2 div ( <i>each</i> : 1 mech regt, 3 tk regt); 1 indep bde |
| Mech   | 3 div ( <i>each</i> : 1 tk regt, 3 mech regt)              |
| Mech Inf/Mot Inf                                 | 5 indep bde  |
| Inf  | 20 indep bn  |
| AB   | 1 div (5 AB regt)  |
| Arty   | 2 regt   |
| ADA  | 6 bn   |
| AD   | 5 bn   |

### EQUIPMENT BY TYPE

**TK • MBT** 920: 350 T-72; 300 T-62; 270 T-54/T-55  
**RECCE** 139

**BRDM** 90:

26 BRDM-2

64 BRDM-2 each with AT-3 *Sagger* msl

*Saladin* 49 (status uncertain)

**AIFV • BMP** 1084: 680 BMP-1; 304 BMP-2; 100 BMP-3

**APC • APC (W)** 910: 110 BTR-50/OT-62

**BTR** 550: 400 BTR-60; 150 BTR-80

**OT** 150: 150 OT-64

**TH 390** *Fahd* 100

**ARTY** 1,019

**TOWED** 375

**122mm** 345: 160 D-30; 25 D-74; 100 M-1931/37; 60 M-30 M-1938

**130mm** 10: 10 M-46

**152mm** 20: 20 ML-20 M-1937

**SP** 170

**122mm** 140: 140 2S1 *Carnation*

**152mm** 30: 30 2S3

**MRL** 144:

**122mm** 48: 48 BM-21

**140mm** 48: 48 BM-14/16

**240mm** 30: 30 BM-24

**300mm** 18: 18 9A52 *Smerch*

**MOR** 330

**82mm** 150: 150 M-37

**120mm** 120: 120 M-1943

**160mm** 60: 60 M-1943

**AT**

**MSL**: some AT-3 *Sagger*; some AT-4 *Spigot*; some AT-5 *Spandrel*

**RCL** 180

**107mm** 60: 60 B-11

**82mm** 120: 120 B-10

**GUNS** 300

**57mm** 160: 160 ZIS-2 M-1943

**85mm** 80: 80 D-44

**100mm** 60: 50 SU-100 SP (in store); 10 T-12

**AD**

**SAM** 288+

**SP** 68: €48 SA-8 *Gecko*; €20 SA-9 *Gaskin*

**MANPAD** 220+: some SA-14 *Gremlin*/SA-16 *Gimlet*

**SA-7** 220: €220 SA-7A *Grail*/SA-7B *Grail*

**GUNS** 875

**14.5mm • TOWED • ZPU** 100: 60 ZPU-2; 40 ZPU-4

**20mm**: 100

**23mm**: 325

**SP** 225: €225 ZSU-23-4

**TOWED** 100: €100 ZU-23

**37mm • TOWED** 100: €100 M-1939

**57mm • TOWED** 70: 70 S-60

**85mm • TOWED** 20: 20 M-1939 *KS-12*

**100mm • TOWED** 150: 150 *KS-19*

**130mm • TOWED** 10: 10 *KS-30*

**Navy €7,500** (incl 500 officers)

### EQUIPMENT BY TYPE

**SUBMARINES • TACTICAL • SSK** 2:

2 *Kilo* (FSU) each with 6 single 533mm TT with 18 Test-71ME HWT

**PRINCIPAL SURFACE COMBATANTS** 9

**FRIGATES • FF** 3:

3 *Mourad Rais* (FSU *Koni*) each with 1 twin (2 eff.) with 20 SA-N-4 *Gecko* SAM, 2 RBU 6000 *Smerch* 2 (24 eff.), 4 76mm gun

**CORVETTES** 6

**FSG** 3:

2 *Rais Hamidou* (FSU *Nanuchka* II) each with 4 single each with 1 SS-N-2C *Styx* tactical SSM, twin with 20 SA-N-4 *Gecko* SAM

1 *Rais Hamidou* (FSU *Nanuchka* II) with 4 quad (16 eff.) with 16 SS-N-25 *Switchblade* tactical SSM, 1 twin (2 eff.) with 20 SA-N-4 *Gecko* SAM

FS 3:  
3 *Djebel Chinoise* each with 2 twin (4 eff.) each with 1  
CSS-N-8 *Saccade* tactical SSM, 3 76mm gun  
**PATROL AND COASTAL COMBATANTS 22**  
PFC 13: 13 *Kebir*  
PFM 9:  
9 *Osa II* each with 4 single each with 1 SS-N-2B *Styx*  
tactical SSM  
**AMPHIBIOUS • LS 3**  
LSM 1:  
1 *Polnochny A* (capacity 6 MBT; 180 troops)  
LST 2:  
2 *Kalaat beni Hammad* (capacity 7 tanks; 240 troops)  
each with 1 hel landing platform (for *Sea King*)  
**LOGISTICS AND SUPPORT 3**  
AGHS (SVY) 1: 1 *El Idrissi*  
Spt 1 (div)  
TRV 1: 1 *Poluchat*

**FACILITIES**

Bases Located at Mers el Kebir, Algiers, Annaba, Jijel

**Coast Guard €500**

**PATROL AND COASTAL COMBATANTS €31+**

PCC 15: 4 *Baglietto*; 11 *Chui- E* (PRC)

PCI 16 less than 100 tonnes

**LOGISTICS AND SUPPORT 1: 1 Spt**

**Air Force €10,000**

Flying hours 150 hrs/year

**FORCES BY ROLE**

Ftr 1 sqn with 10 MiG-25 *Foxbat*; 4 sqn with 48 MiG-  
21bis *Fishbed L & N*/MiG-21MF *Fishbed J*; 2 sqn with  
26 MiG-23B *Flogger F*/MiG-23E *Flogger*; 3 sqn with  
36 MiG-29C *Fulcrum*/MiG-29UB *Fulcrum*  
FGA 1 sqn with 8 MiG-23F *Flogger*; 2 sqn each with 17  
Su-24M *Fencer*/Su-24MK *Fencer D*  
Recce 1 sqn with 4 Su-24E *Fencer*; 1 sqn with 8 MiG-25R  
*Foxbat*  
Surv 2 sqn with 12 Beech 1900D  
MR 2 sqn with 15 Beech 200T *Maritime Patrol*  
Tpt 2 sqn with 9 C-130H *Hercules*; 8 C-130H-30  
*Hercules*; 4 Gulfstream IV-SP; 1 Gulfstream V; 3 Il-  
76MD *Candid B*; 6 Il-76TD *Candid*; 2 L-100-30;  
2 (VIP) sqn with 3 F-27 *Friendship*; 2 *Falcon 900*  
Tkr 1 sqn with 6 Il-78 *Midas*  
Atk hel 4 sqn with 33 Mi-24 *Hind*  
Tpt hel 7 sqn with 8 AS-355 *Ecureuil*; 64 Mi-17/Mi-8 *Hip*;  
42 Mi-171  
Trg 1 sqn with 10 Mi-8 *Hip*; 1 sqn with misc ac; 6 sqn  
with 28 PZL Mi-2 *Hoplite*; 2 sqn with Z-142; 2 sqn  
with 36 L-39ZA/7 L-39C *Albatros*  
AD 3 bde with 725 100mm/130mm/85mm  
SAM 3 regt with €140 SA-2 *Guideline*/SA-3 *Goa*/SA-6  
*Gainful*/SA-8 *Gecko* (140-840 eff.)

**EQUIPMENT BY TYPE**

**AIRCRAFT:** 204 combat capable

FTR 124: 40 MiG-25 *Foxbat*

MiG-21 48: 48 MiG-21bis *Fishbed L & N*/MiG-21MF  
*Fishbed J*

MiG-29C *Fulcrum* MiG-29 FTR/MiG-29UB *Fulcrum 36*

FGA 76

Su-24 34: 34 Su-24M *Fencer*/Su-24MK *Fencer D*

MiG-23B *Flogger F* FGA/MiG-23E *Flogger FTR 34*

MiG-23 8: 8 MiG-23F *Flogger*

RECCE 12: 8 MiG-25R *Foxbat*; 4 Su-24E *Fencer\**

MP 15: 15 Beech 200T *Maritime Patrol*

TKR 6: 6 Il-78 *Midas*

TPT 62

BEECH 1900 24: 24 Beech 1900D

C-130 17:

C-130H 17: 9; 8 C-130H-30 *Hercules*

F-27 *Friendship 3 Falcon 900 2*

GULFSTREAM IV 4: 4 Gulfstream IV-SP

Gulfstream V 1

IL-76 9: 3 Il-76MD *Candid B*; 6 Il-76TD *Candid*

L-100 2: 2 L-100-30

TRG • L-39 43: 36 L-39ZA *Albatros*, 7 L-39C

TRG 44+: some Z-142

**HELICOPTERS**

ATK 33: 33 Mi-24 *Hind*

SPT 142: 8 AS-355 *Ecureuil*; 42 Mi-171

Mi-8/Mi-17 64: 64 Mi-17 (Mi-8MT) *Hip H*/Mi-8 *Hip* spt  
hel

PZL Mi-2 *Hoplite 28*

**AD**

SAM 140: €140 SA-2 *Guideline* Towed/SA-3 *Goa*/SA-6  
*Gainful* SP/SA-8 *Gecko* SP (140-840 eff.)

GUNS 725: 725 100mm/130mm/85mm

MSL • TACTICAL • ASM: some AS-10 *Karen*; some AS-12  
*Kegler*; some AS-14 *Kedge*; some AS-17 *Krypton*; some AS-7  
*Kerry*

AAM: some AA-10 *Alamo*; some AA-11 *Archer*; some AA-2  
*Atoll*; some AA-6 *Acrid*; some AA-7 *Apex*; some AA-8 *Aphid*

**Paramilitary €187,200**

**Gendarmerie 20,000**

Ministry of Defence

**FORCES BY ROLE**

Army 6 region

**EQUIPMENT BY TYPE**

RECCE AML-60 /110 M-3 *Panhard APC (W)*

APC • APC (W) 100: 100 TH 390 *Fahd*

HELICOPTERS • SPT: some PZL Mi-2 *Hoplite*

**National Security Forces 16,000**

Directorate of National Security. Small arms

**Republican Guard 1,200**

RECCE • AML: some AML-60

APC • APC (T): some M-3

**Legitimate Defence Groups €150,000**

Self-defence militia, communal guards (60,000)

**NON-STATE ARMED GROUPS**

see Part II



## DEPLOYMENT

### BURUNDI

UN • ONUB 2

### DEMOCRATIC REPUBLIC OF CONGO

UN • MONUC 8 obs

### ETHIOPIA/ERITREA

UN • UNMEE 1 obs

### SUDAN

AU • AUMIS 13 obs

## Bahrain Brn

| Bahraini Dinar D      |      | 2004   | 2005   | 2006   |
|-----------------------|------|--------|--------|--------|
| GDP                   | D    | 4.11bn | 4.9bn  |        |
|                       | US\$ | 10.8bn | 12.9bn |        |
| per capita            | US\$ | 15,916 | 18,733 |        |
| Growth                | %    | 5.5    | 5.9    |        |
| Inflation             | %    | 4.9    | 2.7    |        |
| Debt                  | US\$ |        |        |        |
| Def bdtg <sup>a</sup> | D    | 180m   | €200m  |        |
|                       | US\$ | 474m   | €526m  |        |
| FMA (US)              | US\$ | 24.68m | 18.84m | 15.59m |
| US\$1=D               |      | 0.38   | 0.38   | 0.38   |

<sup>a</sup> Excluding extra budgetary funding

Population 688,345

Ethnic groups: Nationals 64%; Asian 13%; other Arab 10%; Iranian 8%; European 1%

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 14%  | 4%    | 4%    | 4%    | 28%   | 2%      |
| Female | 14%  | 4%    | 4%    | 3%    | 17%   | 2%      |

## Capabilities

ACTIVE 11,200 (Army 8,500 Navy 1,200 Air 1,500)

Paramilitary 10,160

## ORGANISATIONS BY SERVICE

### Army 8,500

#### FORCES BY ROLE

Armd 1 bde under strength (1 recce bn, 2 Tt bn)

Inf 1 bde (1 mot inf bn, 2 mech inf bn)

SF 1 bn

Arty 1 bde (1 lt arty bty, 1 hy arty bty, 1 MRL bty, 2 med arty bty)

Gd 1 (amiri) bn

AD 1 bn (1 ADA bty, 2 SAM bty)

#### EQUIPMENT BY TYPE

TK • MBT • M-60 180: 180 M-60A3

RECCE 46

AML 22: 22 AML-90

Ferret 8 (in store)

S52 Shorland 8

Saladin 8 (in store)

AIFV 25: 25 YPR-765 (with 25mm)

APC 235+

APC (T) • M-113 115: 115 M-113A2

APC (W) 120+: 10+ AT105 Saxon; 110 M-3 Panhard

ARTY 69

TOWED 26: 8 105mm (lt)

155mm 18: 18 M-198

SP • 203mm 13: 13 M-110

MRL • 227mm 9: 9 MLRS (est. 30 ATACMS)

MOR 21: 12 81mm; 9 120mm

AT

MSL • TOW • TOW-2 15: 15 TOW-2A/TOW-2B

RCL 31

106mm • M-40 25: 25 M-40A1

120mm 6: 6 MOBAT

AD

SAM 93

SP 7: 7 Crotale

TOWED • MIM-23 8: 8 I-HAWK MIM-23B

MANPAD 78: 18 FIM-92A Stinger; 60 RBS-70

GUNS 27

35mm • TOWED 15: 15 Oerlikon

40mm • TOWED 12: 12 L/70

## Navy 1,200

### EQUIPMENT BY TYPE

#### PRINCIPAL SURFACE COMBATANTS 3

FRIGATES • FFG 1:

1 Sabah (capacity either 1 BO-105 utl hel or 2 SH-2G Super Seasprite ASW hel) (US Oliver Hazard Perry) with SM-1 MR SAM, 4+ RGM-84C Harpoon tactical SSM, 2 triple ASTT (6 eff.), 1 76mm gun

CORVETTES • FSG 2:

2 Al Manama (capacity 1 BO-105 utl hel) (Ge Lurssen 62m with hel deck) each with 2 twin (4 eff.) each with 1 MM-40 Exocet tactical SSM, 1 76mm gun

#### PATROL AND COASTAL COMBATANTS 8

PCI 2: 2 Swift less than 100 tonnes (FPB-20)

PFC 2: 2 Al Riffa (Ge Lurssen 38m)

PFM 4:

4 Ahmed el Fateh (Ge Lurssen 45m) each with 2 twin (4 eff.) each with 1 MM-40 Exocet tactical SSM, 1 76mm gun

#### AMPHIBIOUS • CRAFT 5

LCU 5: 1 Loadmaster; 4 LCU

#### LOGISTICS AND SUPPORT • SPT 1

#### FACILITIES

Base Mina Salman

## Air Force 1,500

#### FORCES BY ROLE

Ftr 2 sqn with 17 F-16C Fighting Falcon; 4 F-16D Fighting Falcon

FGA 1 sqn with 8 F-5E Tiger II; 4 F-5F Tiger II

Tpt some sqn with 1 B-727; 1 Gulfstream II; 1 Gulfstream III (VIP); 1 RJ-85

VIP 1 unit with 1 S-70A Black Hawk; 3 BO-105; 1 UH-60L Black Hawk

Trg some sqn with 3 T67M Firefly, 7 Hawk Mk-129

Hel 3 sqn with 24 AH-1E *Cobra*; 6 TAH-1P *Cobra*\*; 1 sqn with 12 AB-212 (Bell 212)

#### EQUIPMENT BY TYPE

AT • MSL: some TOW

AIRCRAFT 33 combat capable

FTR • F-5 12: 8 F-5E *Tiger II*; 4 F-5F *Tiger II*

FGA 21: 17 F-16C *Fighting Falcon*; 4 F-16D *Fighting Falcon*

TPT 4: 1 B-727; 1 Gulfstream II; 1 Gulfstream III (VIP); 1 RJ-85

TRG 10

T67 3: 3 T67M *Firefly*, 7 *Hawk* Mk-129

#### HELICOPTERS

ATK • AH-1 24: 24 AH-1E *Cobra*

SPT • S-70 1: 1 S-70A *Black Hawk*

UTL 16: 12 AB-212 (Bell 212); 3 BO-105

UH-60 1: 1 UH-60L *Black Hawk*

TRG • TAH-1 6: 6 TAH-1P *Cobra*\*

MSL • TACTICAL • ASM • AGM-65: some AGM-65D *Maverick*/AGM-65G *Maverick*

AS-12 *Kegler* some

AAM: some AIM-7 *Sparrow*

AIM-9: some AIM-9P *Sidewinder*

#### Paramilitary €10,260

##### Police 9,000

Ministry of Interior

HELICOPTERS • UTL 5: 1 BO-105; 2 Bell 412 *Twin Huey*; 2 Hughes 500

##### National Guard €2,000

Paramilitary 3 bn

##### Coast Guard €260

Ministry of Interior

PATROL AND COASTAL COMBATANTS 22+: 1 PCI; 21+ less than 100 tonnes

AMPHIBIOUS • CRAFT 1: 1 LCM

LOGISTICS AND SUPPORT 1: 1 spt

#### FOREIGN FORCES

United Kingdom: VC-10 C1K tkr/tpt

United States USCENCOM: 1 HQ HQ (USNAVCENT) located at Manama; 3,000 (Navy/USMC/Army)

## Egypt Et

| Egyptian Pound E£ |      | 2004    | 2005     | 2006   |
|-------------------|------|---------|----------|--------|
| GDP               | E£   | 485bn   | 535bn    |        |
|                   | US\$ | 79.1bn  | 92.2bn   |        |
| per capita        | US\$ | 1,039   | 1,190    |        |
| Growth            | %    | 4.1     | 4.1      |        |
| Inflation         | %    | 8.1     | 5.2      |        |
| Debt              | US\$ |         |          |        |
| Def exp           | E£   | 22.00bn | €21.97bn |        |
|                   | US\$ | 3.54bn  | €3.79bn  |        |
| Def bdgt          | E£   | 13.9bn  | €14.5bn  |        |
|                   | US\$ | 2.27bn  | €2.5bn   |        |
| FMA (US)          | US\$ | 1.29bn  | 1.29bn   | 1.29bn |
| US\$1=E£          |      | 6.13    | 5.80     | 5.73   |

Population 77,505,756

| Age    | 0–14 | 15–19 | 20–24 | 25–29 | 30–64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 17%  | 5%    | 5%    | 4%    | 17%   | 2%      |
| Female | 16%  | 5%    | 5%    | 4%    | 17%   | 3%      |

## Capabilities

**ACTIVE 468,500** (Army 340,000 Navy 18,500 Air 30,000 Air Defence Command 80,000) Paramilitary 330,000

*Terms of service* 12 months–3 years (followed by refresher training over a period of up to 9 years)

**RESERVE 479,000** (Army 375,000 Navy 14,000 Air 20,000 Air Defence 70,000)

## ORGANISATIONS BY SERVICE

**Army 90,000–120,000; 190,000–220,000** conscript; 375,000 reservists (total 655,000–715,000)

#### FORCES BY ROLE

Armd 4 div (*each*: 1 arty bde, 1 mech bde, 2 armd bde); 1 (Republican Guard) bde; 4 indep bde

Mech 4 indep bde

Mech Inf 8 div (*each*: 1 arty bde, 1 armd bde, 2 mech inf bde)

Air Mob 1 bde

Inf 2 indep bde

SF 1 gp

Cdo 1 gp HQ (5–7 cdo gp, 1 Counter-Terrorist unit (Unit 777 (Thunderbolt Force (El Saiqa)), str 300.)

Para 1 bde

Arty 15 indep bde

SSM 1 bde with 9 FROG-7; 1 bde with 9 *Scud*-B

#### EQUIPMENT BY TYPE

TK • MBT 3,855

M-1 755: 755 M1-A1 *Abrams*

**M-60** 1,500: 300 M-60A1; 1,200 M-60A3

**T-62** 500 in store

**Ramses II** 260 (mod T-54/55)

**T-54/T-55** 840 in store

#### RECCE 412

**BRDM** 300: 300 BRDM-2

*Commando Scout* 112

#### AIFV 520

**BMP** 220: 220 BMP-1 (in store)

**YPR-765** 300 (with 25mm) with 210 TOW-2 msl

#### APC 4,750

**APC (T) • M-113** 2,100: 2,100 M-113A2 (incl variants)

**APC (W)** 2,650: 250 BMR-600P; 500 BTR-50/OT-62 (most in store)

**BTR** 250: 250 BTR-60

**Fahd-30/TH 390 Fahd** 1,000 **Walid** 650

#### ARTY 4,348

**TOWED** 946

**122mm** 526

**D-30** 190: 190 D-30M

**M-1931/37 36 M-30 M-1938** 300

**130mm** 420: 420 M-46

#### SP 489

**122mm** 124: 124 SP 122

**155mm • M-109** 365: 164 M-109A2; 201 M-109A2/M-109A3 (surplus US stock, delivered Nov 2005)

#### MRL 498

**122mm** 356: 96 BM-11; 60 BM-21

**SAKR** 200: 50 *Sakr-10*; 50 *Sakr-18*; 100 *Sakr-36*

**130mm** 36: 36 *Kooryong*

**140mm** 32: 32 BM-14

**227mm** 26: 26 MLRS

**240mm** 48: 48 BM-24 in store

#### MOR 2,415

**81mm • M-125** 50: 50 M-125A2

**82mm** 500

**120mm** 1835: 35 M-106A2; 1,800 M-1943

**160mm** 30: 30 M-160

#### AT

**MSL** 2,152: 1,200 AT-3 *Sagger* (incl BRDM-2); 200 *Milan*

**TOW** 752: 52 M-901; 700 TOW-2

**RCL • 107mm** 520: 520 B-11

**UAV:** some R4E-50 *Skyeye*

#### AD

**SAM** 2,096+

**SP** 96: 50 FIM-92A *Avenger*; 26 M-54 *Chaparral*; 20 SA-9 *Gaskin*

**MANPAD** 2,000+: some FIM-92A *Stinger*; 2,000 *Ayn al-Saqr/SA-7 Grail*

#### GUNS 705+

**14.5mm • TOWED • ZPU** 300: 300 ZPU-4

**23mm** 365

**SP** 165: 45 *Sinai-23*; 120 ZSU-23-4

**TOWED** 200: 200 ZU-23-2

**57mm • SP** 40: 40 ZSU-57-2

**TOWED:** some S-60

**RADAR • LAND:** some AN/TPQ-36 *Firefinder*; some AN/TPQ-37 *Firefinder* (arty/mor)

**MSL • TACTICAL • SSM** 42+: 9 FROG-7; 24 *Sakr-80*; some (trials)

**SCUD** 9: 9 *Scud-B*

### Central Zone

Mil Region 1 zone HQ located at Cairo

### Eastern Zone

Mil Region 1 zone HQ located at Ismailiya

Armd 1 div

Mech Inf 2 div

### Northern Zone

Mil Region 1 zone HQ located at Alexandria

Armd 1 div

Mech Inf 2 div

### Southern Zone

Mil Region 1 zone HQ located at Aswan

Armd Cav 1 div

Mech Inf 2 div

### Western Zone

Mil Region 1 zone HQ located at Mersa Matruh

Armd 1 div

Mech Inf 2 div

**Navy** £8,500 (incl 2,000 Coast Guard); 10,000 conscript; 14,000 reservists (total 32,500)

Two Fleets: Mediterranean and Red Sea. Naval Organisation: 1 Submarine Bde, 1 Destroyer Bde, 1 Patrol Bde, 1 Fast Attack Bde, and 1 Special Ops Bde.

#### FORCES BY ROLE

Navy 1 HQ located at Alexandria; 1 HQ located at Safaqa

#### EQUIPMENT BY TYPE

**SUBMARINES • TACTICAL • SSK** 4:

4 *Romeo+* each with 1+ single 533mm TT with UGM-84C

*Harpoon* tactical USGW

**PRINCIPAL SURFACE COMBATANTS** 11

**DESTROYERS • DD** 1:

1 *El Fateht* training (UK 'Z') with 2 quad 533mm ASTT (8 eff.), 4 114mm gun

**FRIGATES • FFG** 10:

2 *Abu Qir* (Sp *Descubierta*) each with 2 triple ASTT (6 eff.) each with *Sting Ray* LWT, 2 Mk 141 *Harpoon* quad (8 eff.) each with 1 RGM-84C *Harpoon* tactical SSM, 1 2 tube *Bofors* 375mm (2 eff.), 1 76mm gun

2 *Damyat* (capacity 1 SH-2G *Super Seasprite* ASW hel) (US *Knox*) each with 1 Mk16 Mk 112 octuple with 8 RGM-84C *Harpoon* tactical SSM, tactical ASROC, 2 twin 324mm TT (4 eff.), 1 127mm gun

4 *Mubarak* (capacity 2 SH-2G *Super Seasprite* ASW hel) (ex-US *Oliver Hazard Perry*) each with 1 Mk 13 GMLS with 36 SM-1 MR SAM, 4 RGM-84C *Harpoon* tactical SSM, 1 76mm gun

2 *Najim Al Zaffer* (PRC *Jianghu I*) each with 2 twin (4 eff.) each with 1 HY-2 (CSS-N-2) *Silkworm* tactical SSM, 2 RBU 1200 (10 eff.)

**PATROL AND COASTAL COMBATANTS** 45

**PFC** 18:

4 *Hainan* (PRC) each with 2 triple 324mm TT (6 eff.), 4 x1 RL

4 *Hainan* in reserve (PRC) each with 2 triple 324mm TT (6 eff.), 4 x1 RL

- 4 *Shanghai II* (PRC)  
 4 *Sher Shen* each with 1+ SA-N-5 *Grail* SAM (manual aiming), 1 12 tube BM-24 MRL (12 eff.)  
 2 *Sher Shen* (FSU) each with 4 single 533mm TT, 1 8 tube BM-21 MRL (8 eff.)

**PFM 23:**

- 5 *Tiger* class each with 2 single each with 1 Otomat tactical SSM  
 4 *Hegu* (Komar type) (PRC) each with 2 single each with 1 SY-1 tactical SSM  
 5 *Komar* (FSU) each with 2 single each with 1 SY-1 tactical SSM  
 3 *Osa I* (FSU) each with 4 single each with 1 SS-N-2A *Styx* tactical SSM  
 6 *Ramadan* each with 4 single each with 1 Otomat tactical SSM

**MINE WARFARE • MINE COUNTERMEASURES 12**

- MSC** 4: 4 *Aswan* (FSU *Yurka*)  
**MSO** 3: 3 *Assiout* (FSU T-43 class)  
**MHC** 3: 3 *Dat Assawari*  
**MHI** 2: 2 *Safaga* (*Swiftships*)

**AMPHIBIOUS 12**

- LS • LSM** 3:  
 3 *Polnochny B* (capacity 180 troops; 6 MBT) (FSU)  
**CRAFT • LCU** 9:

- 9 *Vydra* (capacity either 100 troops or 3 AMX-30 MBT)  
**LOGISTICS AND SUPPORT** 20: 7 AOT (small); 6 AT; 1 spt (diving)

- TRG** 6: 5; 1 *Tariq* (ex-UK FF)

**FACILITIES**

Bases Alexandria, Port Said, Mersa Matruh, Port Tewfig, Safaqa, Hurgkada, Suez, Al Ghardaqah

**Coastal Defence**

Army tps, Navy control

**MSL • TACTICAL • SSM:** some SSC-2b *Samlet*

**LNCHR** 3:

- 3 twin each with 1 Mk 2 Otomat SSM

**GUN:** some 100mm

- 130mm:** some SM-4-1

- 152mm** some

**Naval Aviation**

**AIRCRAFT • TPT • BEECH 1900** 2: 2 Beech 1900C (maritime surveillance)

**HELICOPTERS** (armed, operated by Air Force)

- ATK** 12: 12 SA-342 *Gazelle*

**ASW** 15:

- 10 SH-2G *Super Seasprite* each with Mk 46 LWT  
 5 *Sea King* MK47

**UAV** 2: 2 *Camcopter* 5.1

**Air Force** 20,000; 10,000 conscript; 20,000 reservists (total 50,000)

**FORCES BY ROLE**

**Ftr** 2 sqn with 53 *Mirage* 5DE; 2 sqn with 26 F-16A *Fighting Falcon*; 1 sqn with 15 M-2000C *Mirage*; 7 sqn with 113 F-16C *Fighting Falcon*; 6 sqn with 74 MiG-21 *Fishbed*; 3 sqn with 53 J-7 (MiG-21F) *Fishbed C*

**FGA** 2 sqn with 29 F-4E *Phantom II*; 2 sqn with 44 J-6 (MiG-19S) *Farmer B*; 2 sqn with 42 *Alpha Jet*\*; 1 sqn with 16 *Mirage* 5E2

**ASW/hel** 2 sqn with 10 SH-2G *Super Seasprite*\*; 5 *Sea King* MK47\*; 5 SA-342L *Gazelle*\*

**Tac/hel/tpt** some sqn with 3 CH-47C *Chinook*; 16 CH-47D *Chinook* (medium); 3 *Commando* (VIP); 22 more; 12 Mi-6 *Hook*; 2 S-70 *Black Hawk* (VIP, light); 40 Mi-8 *Hip*; 2 AS-61; 2 UH-60A *Black Hawk*; 5 UH-60L *Black Hawk* (VIP); 17 UH-12E

**Recce** 2 sqn with 14 MiG-21R *Fishbed H*\*; 6 *Mirage* 5SDR (*Mirage* 5R)\*

**MR** 1 sqn with 4 Beech 1900C

**EW** 1 sqn with 1 Beech 1900 (ELINT); 2 C-130H *Hercules* (ELINT); 4 *Commando* 2E (ECM)

**AEW** 1 sqn with 4 E-2C *Hawkeye*

**Tpt** 1 regt with 3 B-707-366C; 1 B-737-100; 1 Beech 200 *Super King Air*; 22 C-130H *Hercules*; 5 DHC-5D *Buffalo*; 3 *Falcon* 20; 3 Gulfstream III; 3 Gulfstream IV, first of 6 An-74TK-200A

**Atk hel** 6 sqn with 36 AH-64A *Apache*; 74 SA-342K *Gazelle* (44 with HOT, 30 with 20mm)

**Trg** some sqn with 12 F-16B *Fighting Falcon*\*; 6 F-16D *Fighting Falcon*\*; 4 DHC-5 *Buffalo*; 70 *Alpha Jet*; 34 EMB-312 *Tucano*; 36 *Gomhouria*; 74 Grob 115EG; 80 K-8 (being delivered to replace L-29); 26 L-29 *Delfin*; 10 L-39 *Albatros*; 35 L-59E *Albatros*\*; 3 M-2000B *Mirage*\*; 15 MiG-21U *Mongol A*\*; 6 JJ-6 (MiG-19UTI) *Farmer*; 16\*

**UAV** some sqn with 20 R4E-50 *Skyeye*; 29 Teledyne-Ryan 324 *Scarab*

**EQUIPMENT BY TYPE**

**AIRCRAFT** 572 combat capable

**FTR** 218: 53 *Mirage* 5ED

- F-16** 38: 26 F-16A *Fighting Falcon*; 12 F-16B *Fighting Falcon*\*  
**MiG-21** 127: 74 J-7 (MiG-21F) *Fishbed C* 53

**FGA** 223

**M-2000** 15: 15 M-2000C *Mirage*

**F-16C** *Fighting Falcon* 113 **F-16D** *Fighting Falcon* 6  
*Mirage* 5E2 16

**F-4** 29: 29 F-4E *Phantom II*

**MiG-19** 44: 44 J-6 (MiG-19S) *Farmer B*

**RECCE** 20: 14 MiG-21R *Fishbed H*\*; 6 *Mirage* 5SDR (*Mirage* 5R)\*

**AEW • E-2** 4: 4 E-2C *Hawkeye*

**TPT** 52+

First of 6 An-74TK-200A

**B-707** 3: 3 B-707-366C

**B-737** 1: 1 B-737-100

**BEECH 1900** 5: 1 (ELINT) **Beech 1900C** 4

**Beech 200** *Super King Air* 1

**C-130** 24: 2 C-130H *Hercules* (ELINT); 22 C-130H (tpt)

**DHC-5** 9: 4 DHC-5D *Buffalo* 5

**Falcon** 20 3 **Gulfstream III** 3 **Gulfstream IV** 3

**TRG** 447: 70 *Alpha Jet*; 42\*; 34 EMB-312 *Tucano*; 36 *Gomhouria*

**GROB** 115 74: 74 Grob 115EG

**JJ-6** (MiG-19UTI) *Farmer* 6; 16\*K-8 80 (being delivered to replace L-29) **L-29** *Delfin* 26 **L-39** *Albatros* 10

**L-59** 35: 35 L-59E *Albatros*\*

**M-2000B Mirage 3\*****MiG-21U Mongol A 15\*****HELICOPTERS**ELINT 4: 4 *Commando 2E* (ECM)**ATK 115****AH-64** 36: 36 *AH-64A Apache***SA-342** 79: 74 *SA-342K Gazelle* (44 with HOT, 30 with 20mm); 5 *SA-342L Gazelle\****ASW 15:** 10 *SH-2G Super Seasprite\**; 5 *Sea King MK47\****SPT 98****CH-47** 19: 3 *CH-47C Chinook*; 16 *CH-47D Chinook* (Medium)**Commando 22;** 3 (VIP)**Mi-6 Hook 12 S-70 Black Hawk** 2 (VIP, light) **Mi-8 Hip** 40**UTL 9:** 2 *AS-61***UH-60** 7: 2 *UH-60A Black Hawk*; 5 *UH-60L Black Hawk* (VIP)**TRG • UH-12** 17: 17 *UH-12E***UAV 49:** 20 *R4E-50 Skyeye*; 29 *Teledyne-Ryan 324 Scarab***MSL • TACTICAL • ASM 245+:** some *AGM-119 Penguin***AGM-65** 245: 80 *AGM-65A Maverick*; 123 *AGM-65D Maverick*; 12 *AGM-65F Maverick*; 30 *AGM-65G Maverick***AGM-84 Harpoon** some **AM-39 Exocet** some**ARM:** some *Armat***AS-12 Kegler** some**AS-30:** some**AS-30L:** some *AS-30L HOT***AAM:** some *AA-2 Atoll***AIM-7:** some *AIM-7E Sparrow/AIM-7F Sparrow/AIM-7M Sparrow***AIM-9:** some *AIM-9F Sidewinder/AIM-9L Sidewinder/**AIM-9P Sidewinder***R-550 Magic** some **R530** some**Air Defence Command 30,000; 50,000**  
conscript; 70,000 reservists (total 150,000)**FORCES BY ROLE****AD 5 div** (geographically based) (*total: 12 SAM bty with M-48 Chaparral, 12 radar bn, 12 ADA bde (total: 100 ADA bn), 12 SAM bty with I-HAWK MIM-23B, 14 SAM bty with Crotale, 18 SAM bn with Skyguard, 110 SAM bn with Pechora (SA-3A) Goa/SA-3 Goa; SA-6 Gainful; SA-2 Guideline*)**EQUIPMENT BY TYPE****AD****SYSTEMS 72+:**72+ *Amoun* each with *RIM-7F Sea Sparrow SAM*, 36+ quad *SAM* (144 eff.), *Skyguard* towed *SAM*, 36+ twin 35mm guns (72 eff.)**SAM 702+:** some *Crotale***SA-3 212+:** 212+ *Pechora (SA-3A) Goa/SA-3 Goa SAM***SP 130+:** 24+ *Crotale*; 50+ *M-48 Chaparral*; 56+ *SA-6 Gainful***TOWED 360+****MIM-23 78+:** 78+ *I-HAWK MIM-23B***SA-2 Guideline 282+ Skyguard** some**GUNS 1,566+****23mm • SP 266+:**36+ *Sinai-23 (SPAAG)* each with *Ayn al-Saqr*  
*MANPAD SAM*, *Dassault 6SD-20S land*  
230 *ZSU-23-4***57mm • TOWED 600:** 600 *S-60***85mm • TOWED 400:** 400 *M-1939 KS-12***100mm • TOWED 300:** 300 *KS-19***Paramilitary €397,000 active****Central Security Forces 325,000**

Ministry of Interior; Includes conscripts

**APC • APC (W)** 100+: 100 *Hussar*; some *Walid***National Guard 60,000**

Lt wpns only

**FORCES BY ROLE**Paramilitary 8 (cadre status) bde (*each: 3 paramilitary bn*)**EQUIPMENT BY TYPE****APC • APC (W)** 250: 250 *Walid***Border Guard Forces 12,000**

Ministry of Interior; Lt wpns only

Gd 18 (Border Guard) regt

**Coast Guard 2,000 (incl in Naval entry)****PATROL AND COASTAL COMBATANTS €99+****PB 7:** 7 *Bertram***PCI 26:** 5 *Nisr†* (sid); 9 *Swiftships*; 12 *Timsah* less than 100 tonnes**PFI 6:** 6 *Crestitalia* less than 100 tonnes**NON-STATE ARMED GROUPS**

see Part II

**DEPLOYMENT****BURUNDI****UN • ONUB** 2 obs**DEMOCRATIC REPUBLIC OF CONGO****UN • MONUC** 23 obs**GEORGIA****UN • UNOMIG** 4 obs**LIBERIA****UN • UNMIL** 8 obs**SUDAN****UN • UNMIS** 1 air elm; 1 tpt pl; 1 engr det; 1 minesweeping det; 639; 20 obs**AU • AUMIS** 34 obs**WESTERN SAHARA****UN • MINURSO** 19 obs**FOREIGN FORCES****Australia** 25 staff**Canada** 29**Colombia** 1 inf bn; 358**Fiji** 1 Inf bn; 338**France Air Force:** 1 *DHC-6 Twin Otter* tpt ac 15**Hungary** 41 MP**Italy** 76**New Zealand** 26**Norway** 3 staff**United States** 1 inf bn; 1 spt bn; 687**Uruguay** 87



## Iran Ir

| Iranian Rial r        |      | 2004    | 2005    | 2006  |
|-----------------------|------|---------|---------|-------|
| GDP                   | r    | 1,407tr | 1,578tr |       |
|                       | US\$ | 163bn   | 177bn   |       |
| per capita            | US\$ | 2,420   | 2,597   |       |
| Growth                | %    | 6.6     | 5.5     |       |
| Inflation             | %    | 15.6    | 13.5    |       |
| Debt                  | US\$ |         |         |       |
| Def bdgt <sup>a</sup> | r    | 48.3tr  | 55.7tr  |       |
|                       | US\$ | 5.6bn   | 6.2bn   |       |
| US\$1=r               |      | 8,645   | 8,935   | 9,119 |

<sup>a</sup> Excluding defence industry funding

**Population** 68,017,860

**Ethnic groups:** Persian 51%; Azeri 24%; Gilaki/Mazandarani 8%; Kurdish 7%; Arab 3%; Lur 2%; Baloch 2%; Turkman 2%

| Age    | 0–14 | 15–19 | 20–24 | 25–29 | 30–64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 14%  | 6%    | 7%    | 5%    | 17%   | 2%      |
| Female | 13%  | 6%    | 6%    | 5%    | 16%   | 2%      |

## Capabilities

**ACTIVE 545,000** (Army 350,000 Islamic Revolutionary Guard Corps 125,000 Navy 18,000 Air 52,000) Paramilitary 40,000

**Armed Forces General Staff** co-ordinates two parallel organisations: Regular Armed Forces and Revolutionary Guard Corps

**RESERVE 350,000** (Army 350,000, ex-service volunteers)

## ORGANISATIONS BY SERVICE

**Army** 130,000; 220,000 conscript (total 350,000)

### FORCES BY ROLE

4 Corps HQ

Armd 4 div; some indep bde

Inf 6 div; some indep bde

SF 1 bde

Cdo 2 div; some indep bde

AB 1 bde

Arty 6 gp

Avn some gp

### EQUIPMENT BY TYPE

Totals incl those held by Islamic Revolutionary Guard Corps Ground Forces. Some equipment serviceability in doubt  
TK 1,693+

**MBT** 1,613+: ε100 *Zulfiqar*; 480 T-72

**M-60** 150: 150 M-60A1

**T-62** 75+

**Chieftain** 100: 100 Mk3/Mk5

**T-54/T-55/Type-59** 540 **M-47/M-48** 168

**LT TK** 80+: 80 *Scorpion*; some *Towsan*

**RECCE** 35: 35 EE-9 *Cascavel*

**AIFV • BMP** 610: 210 BMP-1; 400 BMP-2

**APC** 640

**APC (T)** 340: 140 *Boragh*; 200 M-113

**APC (W) • BTR** 300: 300 BTR-50/BTR-60

**ARTY** 8,196+

**TOWED** 2,010

**105mm • M-101** 130: 130 M-101A1

**122mm** 640: 540 D-30; 100 Type-54 (M-30) *M-1938*

**130mm** 985: 985 M-46

**152mm** 30: 30 D-20

**155mm** 205: 120 GHN-45; 70 M-114; 15 Type 88 WAC-21

**203mm** 20: 20 M-115

**SP** 310+

**122mm** 60+: 60 2S1 *Carnation*; some *Thunder* 1

**155mm** 180+: 180 M-109; some *Thunder* 2

**170mm** 10: 10 M-1978

**175mm** 30: 30 M-107

**203mm** 30: 30 M-110

**MRL** 876+

**107mm** 700+: some *Fadjr* 1; some HASEB; 700 Type-63

**122mm** 157: 7 BM-11; 100 BM-21; 50 ARASH/HADID/NOOR

**240mm** 19: ε10 *Fadjr* 3; 9 M-1985

**333mm**: some *Fadjr* 5

**MOR** 5,000: 5,000 incl 60mm/81mm/82mm/107mm M-30/120mm M-65.

**AT**

**MSL** 75: 75 AT-3 *Sagger*/AT-4 *Spigot*/AT-5 *Spandrel*/*Saeqhe* 1/*Saeqhe* 2/*Toophan*/TOW (some AT-3 SP), *Toophan* (TOW))

**RCL • 106mm** 200: ε200 M-40

**107mm**: some B-11

**75mm**: some M-20

**82mm**: some B-10

**RL • 73mm**: some RPG-7 *Knout*

**AIRCRAFT • TPT** 17: 10 Cessna 185; 2 F-27 *Friendship*; 1 *Falcon* 20; 4 Rockwell *Turbo Commander* 690

**HELICOPTERS**

**ATK • AH-1** 50: 50 AH-1J *Cobra*

**SPT** 45

**CH-47** 20: 20 CH-47C *Chinook*

**Mi-8** 25: 25 Mi-17 (Mi-8MT) *Hip* H/Mi-8 *Hip* spt hel

**UTL** 128

**AB-205 (BELL 205)** 68: 68 AB-205A (Bell 205A)

**AB-206 (Bell 206)** *JetRanger* 10 **Bell 214** 50

**UAV**: some *Mohajer* III/*Mohajer* II/*Mohajer* IV

**AD**

**SAM • SP**: some HQ-7 (reported)

**MANPAD**: some SA-14 *Gremlin*/SA-16 *Gimlet*/SA-7 *Grail*; some *Misaq* (QW-1)

**GUNS** 1,700: 1,700 35mm/M-1939 towed 37mm/S-60 towed 57mm/ZPU-2 towed 14.5mm/ZPU-4 towed 14.5mm/ZSU-23-4 SP 23mm/ZSU-57-2 SP 57mm/ZU-23 towed 23mm

**MSL • TACTICAL • SSM** 42+: ε30 CSS-8 (175 msl); some *Nazeat*; some *Oghab*

**SCUD** 12+: 12+ *Scud-B*/*Scud-C* (Up to 18. launchers/launch vehicles. 300 msl)

**Shaheen-1 Hatf-4/Shaheen-2** some

**Islamic Revolutionary Guard Corps 125,000+**  
Controls Basij (paramilitary) when mob

## Islamic Revolutionary Guard Corps Ground Forces 100,000+

Controls Basij (paramilitary) when mob

Very lightly manned in peacetime. Primary role: internal security; secondary role: external defence, in conjunction with regular armed forces.

Inf up to 20 div (Some divs are designated as armd or mech but all are predominantly infantry.); some indep bde

AB 1 indep bde

## Islamic Revolutionary Guard Corps Naval Forces 20,000+ (incl 5,000 Marines)

### FORCES BY ROLE

Navy some (coast-defence) elm (*total*: some SSM bty with HY-2 (CSS-C-3) *Seerseeker*, some arty bty)

### EQUIPMENT BY TYPE

#### PATROL AND COASTAL COMBATANTS 50+

PB 40+:

40+ Boghammar Marin (Swe) each with AT (ATGW), RCL, gun (machine guns)

PFM 10:

10 *Houdong* each with C-802 (CSS-N-8) *Saccade* tactical SSM

MSL • TACTICAL • SSM: some HY-2 (CSS-C-3) *Seerseeker*

### FACILITIES

Bases Located at Bandar-e Abbas, Khorramshahr, 1 with 40+ Boghammer Marin PB (Swe) each with AT (ATGW), RCL, gun (machine guns) located at Larak, Abu Musa, Al Farsiya, Halul (oil platform), Sirri

## Islamic Revolutionary Guard Corps Marines 5,000+

Marine 1 bde

## Islamic Revolutionary Guard Corps Air Force

Controls Iran's strategic missile force.

### FORCES BY ROLE

Msl €1 bde *Shahab*-1/2 with 12–18 launchers; €1 bn with €6 single launchers each with €4 *Shahab*-3 strategic IRBM

### EQUIPMENT BY TYPE

LNCHR 6: €6 single each with €4 *Shahab*-3 strategic IRBM

## Navy 18,000

### FORCES BY ROLE

Navy 1 HQ located at Bandar-e Abbas

### EQUIPMENT BY TYPE

#### SUBMARINES • TACTICAL • SSK 3:

3 *Kilo* (RF Type 877) each with 6 single 533mm TT

#### PRINCIPAL SURFACE COMBATANTS 5

##### FRIGATES • FFG 3:

3 *Alvand* (UK Vosper Mk 5) each with 3 twin (6 eff.) each with CSS-N-4 *Sardine* tactical SSM, 1 x1 RL, 1 114mm gun

##### CORVETTES • FS 2:

2 *Bayandor* (US PF-103) each with 2 76mm gun

#### PATROL AND COASTAL COMBATANTS €250+

PCC 3: 3 *Parvin*

PCI 9: 6 *China Cat* less than 100 tonnes; 3 *Zafar* less than 100 tonnes

PFI 36 less than 100 tonnes

PFM 10:

5 *Kaman* (Fr *Combattante* II) each with up to 2–4 CSS-N-4

*Sardine* tactical SSM

5 *Kaman* (Fr *Combattante* II)

PB 37

PBI 40

### MINE WARFARE • MINE COUNTERMEASURES 5

MSC 3: 2 Type-292; 1 *Shahrokh* (in Caspian Sea as trg ship)

MSI 2: 2 *Riazi* (US Cape)

### AMPHIBIOUS

LS 10

LSM 3: 3 *Iran Hormuz* 24 (capacity 9 tanks; 140 troops) (ROK)

LST 7:

3 *Hejaz* (also mine layers)

4 *Hengam* (capacity 9 tanks; 225 troops) each with up to 1 hel

LSL 3: 3 *Fouque*

CRAFT 6

UCAV 6: 6 *Wellington*

### LOGISTICS AND SUPPORT 27

AO 3: 2 *Bandar Abbas*; 1 *Kharg*

AT 1 AWT 2

SPT 19: 7 *Delvar*; 12 *Hendijan*

Trg 2

### FACILITIES

Bases Located at Bandar-e Abbas, Bushehr, Kharg Island, Bandar-e Anzelli, Bandar-e Khomeini, Bandar-e Mahshahr, Chah Bahar

## Marines 2,600

Marine 2 bde

## Naval Aviation 2,600

### AIRCRAFT

MP • P-3 5: 5 P-3F *Orion*

EW • ELINT 3: 3 Da-20 *Falcon*

TPT 13: 5 Do-228; 4 F-27 *Friendship*; 4 Rockwell *Turbo Commander* 680

### HELICOPTERS

MCM • RH-53 3: 3 RH-53D *Sea Stallion*

ASW • SH-3 10: €10 SH-3D *Sea King*

UTL 17

AB-205 (BELL 205) 5: 5 AB-205A (Bell 205A)

AB-206 (Bell 206) *JetRanger* 2 AB-212 (Bell 212) 10

## Air Force €52,000 (incl 15,000 Air Defence)

### FORCES BY ROLE

Some 281 cbt ac (serviceability probably about 60% for US ac types and about 80% for PRC/Russian ac). Includes Islamic Revolutionary Guard Corps Air Force equipment

Ftr 1 sqn with 24 F-7M *Airguard*; 2 sqn with 25 MiG-29A *Fulcrum A*/MiG-29UB *Fulcrum* (incl former Iraq ac); 2 sqn with 25 F-14 *Tomcat*

FGA 1 sqn with 24 F-1E *Mirage* (former Irq ac); 7 Su-25K *Frogfoot A* (former Irq ac); 30 Su-24MK *Fencer D* (including former Iraq ac); 4 sqn total with 65+ F-4D *Phantom II*/F-4E *Phantom II*; 4 sqn total with 60+ F-5E *Tiger II*/F-5F *Tiger II*

Recce 1 (det) sqn with 6+ RF-4E *Phantom II*\*  
 MR 1 sqn with 5 P-3MP *Orion*\*  
 AEW 1 IL-76 *Candid* (former Irq ac)  
 Tkr/tpst 1 sqn with 3 B-707; 1 B-747  
 Tpt 5 sqn with 2 Y-7 (An-24) *Coke*; 1 B-727; 4 B-747F;  
 17 C-130E *Hercules*/C-130H *Hercules*; 10 F-27  
*Friendship*; 1 *Falcon* 20; IL-76 *Candid* (former Irq  
 ac); total of 2 *Jetstar*; 10 PC-6B *Turbo Porter*;  
 3 Rockwell *Turbo Commander* 680; 9 Y-12, 40+  
 Iran-140  
 Trg trg units with 20 F-5B *Freedom Fighter*\*; 4 TB-  
 200 *Tobago*; 8 TB-21 *Trinidad*; 20 Beech F-33A  
*Bonanza*/Beech F-33C *Bonanza*; 15 EMB-312  
*Tucano*; 15 JJ-7 *Mongol A*\*; 22 MFI-17 *Mushshak*;  
 40 PC-7 *Turbo Trainer*; 7 T-33 *Shooting Star*  
 Hel some sqn with 2 CH-47 *Chinook*; *Shabaviz* 2-75  
 (indigenous versions in production); *Shabaviz*  
 2061; 2 AB-206A (Bell 206A) *JetRanger*; 30 AB-214C  
 SAM 16 bn each with €150 I-HAWK MIM-23B;  
 5 sqn with FM-80 (*Crotale*); total of 30 *Rapier*;  
 15 *Tigercat*; 45 SA-2 *Guideline*; 10 SA-5 *Gammon*;  
 FIM-92A *Stinger*; SA-7 *Grail*

#### EQUIPMENT BY TYPE

##### AIRCRAFT 281 combat capable

###### FTR 153

F-5 80: 20 F-5B *Freedom Fighter*\*; 60+ F-5E *Tiger II*/F-5F  
*Tiger II*

F-7M *Airguard* 24 F-14 *Tomcat* 25

F-1 24: 24 F-1E *Mirage* (former Irq ac)

###### FGA 102

Su-25 7: 7 Su-25K *Frogfoot A* (former Irq ac)

Su-24 30: 30 Su-24MK *Fencer D* (including former Iraq ac)

F-4 260+: 65 F-4D *Phantom II*/F-4E *Phantom II*

RECCE • RF-4 6+: 6+ RF-4E *Phantom II*\*

MP • P-3 5: 5 P-3MP *Orion*\*

TPT 65+: 3 B-707; 1 B-727

B-747 5: 1; 4 B-747F

C-130 17: 17 C-130E *Hercules*/C-130H *Hercules*

F-27 *Friendship* 10 *Falcon* 20 1 IL-76 *Candid* 1+ (former  
 Irq ac) *Jetstar* 2

PC-6 10: 10 PC-6B *Turbo Porter*

Rockwell *Turbo Commander* 680 3 Y-12 9 Y-7 (An-24)  
*Coke* 2

UTL 12: 4 TB-200 *Tobago*; 8 TB-21 *Trinidad*

TRG 119

BEECH F-33 20: 20 Beech F-33A *Bonanza*/Beech F-33C  
*Bonanza*

EMB-312 *Tucano* 15 JJ-7 *Mongol A* 15\*MFI-17  
*Mushshak* 22

MiG-29A *Fulcrum A* MiG-29 FTR/MiG-29UB *Fulcrum*

MiG-29U Trg 25 (incl former Irq ac)

TRG 119: 40 PC-7 *Turbo Trainer*; 7 T-33 *Shooting Star*

#### HELICOPTERS

SPT 2+: 2 CH-47 *Chinook*

SHABAVIZ: some *Shabaviz* 2-75 (indigenous versions  
 in production); some *Shabaviz* 2061

UTL 32

AB-206 (BELL 206) 2: 2 AB-206A (Bell 206A) *JetRanger*

BELL 214 30: 30 AB-214C

AD • SAM 2,500+: some FM-80 (*Crotale*); 30 *Rapier*; 15 *Tigercat*  
 TOWED 2,445

MIM-23 2,400: €2,400 I-HAWK MIM-23B

SA-2 *Guideline* 45

STATIC 10: 10 SA-5 *Gammon*

MANPAD: some FIM-92A *Stinger*; some SA-7 *Grail*

GUNS • 23mm • TOWED: some ZU-23

37mm • TOWED: some Oerlikon

MSL • TACTICAL • ASM up to 3,000: up to 3,000 AGM-  
 65A *Maverick*/AS-10 *Karen*/AS-11 *Killer*/AS-14 *Kedge*/C-801K  
 (CSS-N-4) *Sardine* ALCM

AAM: some AA-10 *Alamo*; some AA-11 *Archer*; some  
 AA-8 *Aphid*; some AIM-54 *Phoenix*; some AIM-7 *Sparrow*;  
 some AIM-9 *Sidewinder*

PL-2: some PL-2A

PL-7 some

#### Paramilitary 40,000

**Law-Enforcement Forces 40,000** (border and  
 security troops); 450,000 on mobilisation (incl  
 conscripts) (total 40,000–490,000)

Part of armed forces in wartime

PATROL AND COASTAL COMBATANTS 130

MISC BOATS/CRAFT 40: 40 harbour craft

PCI circa 90

AIRCRAFT • TPT: some Cessna 185/Cessna 310

HELICOPTERS • UTL 24: €24 AB-205 (Bell 205)/AB-206  
 (Bell 206) *JetRanger*

#### Basij Resistance Force up to €1,000,000 on mobilisation

Paramilitary militia, part of the Islamic Revolutionary Guard  
 Corps, with claimed membership of 10 million, including  
 women and children; perhaps 1 million combat capable  
 Militia 2,500 bn (claimed); some (full time)

#### NON-STATE ARMED GROUPS

see Part II

#### Iraq Irq

| Iraqi Dinar D |      | 2004   | 2005   | 2006  |
|---------------|------|--------|--------|-------|
| GDP           | US\$ | 25.5bn | 29.2bn |       |
| per capita    | US\$ | 1,000  | 1,120  |       |
| Growth        | %    | 35     | -3     |       |
| Inflation     | %    | 55     | 25     |       |
| Debt          | US\$ |        |        |       |
| US\$1=D       |      | 1,456  | 1,471  | 1,470 |

Population 26,074,906

Ethnic groups: Arab 75-80% (of which Shi'a Muslim 55%, Sunni  
 Muslim 45%) Kurdish 20-25%

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 20%  | 6%    | 5%    | 4%    | 14%   | 1%      |
| Female | 20%  | 6%    | 5%    | 4%    | 13%   | 2%      |

#### Capabilities

**ACTIVE 227,000** (Army 105,700 Navy 800 Air 500  
 Iraqi Police Service 82,000 Ministry of Interior Forces  
 38,000)

## ORGANISATIONS BY SERVICE

### Security Forces £227,000

(These are estimated figures for the Iraqi security forces organisations which reflect ongoing changes occurring within the Iraqi security forces)

The target strength of the security forces is 273,889

#### Army £105,700 (Includes National Guard)

#### Navy £800 (total numbers unconfirmed)

#### Iraqi Coastal Defence Force (ICDF)

ICDF crews being trained by UK RN

#### EQUIPMENT BY TYPE

#### PATROL AND COASTAL COMBATANTS 10:

PC 10: 5 (RIB); 5 27m (Chinese-built)

#### FACILITIES

Base Located at Umm Qasr

### Department of Border Enforcement

#### Iraqi Air Force £500

#### FORCES BY ROLE

Recce 1 sqn located at Basra with 2 SB71-360 *Seeker*, 6 CH-2000 SAMA; 1 sqn located at Kirkuk with 6 SB7L-360 *Seeker*

Tpt 1 sqn located at Baghdad with 3 C-130E *Hercules*

Tpt/utl 4 sqn located at Taji with 5 Bell 206 *JetRanger*; 16 UH-1H *Iroquois*, 14 Mi-17, 2 PZL W-3W

#### EQUIPMENT BY TYPE

#### AIRCRAFT

RECCE 14: 6 CH-2000 SAMA; 8 SB7L-360 *Seeker*

TPT • C-130 3: 3 C-130E *Hercules*

#### HELICOPTERS

SPT 36: 4 Mi-17-1V; 10 Mi-17-V5 (incl 1 VIP) being delivered

PZL W-3 • PZL W-3W 2: 2 PZL W-3WA *Salamandra*

UTL 21: 5 Bell 206 *JetRanger*

UH-1 16: 16 UH-1H *Iroquois*

### Ministry of Interior Forces £38,000 (Includes Civil Intervention Force, Emergency Response Unit, Border Enforcement and Dignitary Protection)

Excluding Police

### Iraqi Police Service 82,000 (including Highway Patrol)

## FOREIGN FORCES

**Albania Army:** 71 (Peace Support)

**Armenia** 46

**Australia Air Force:** 1 P-3C *Orion* MP ac Army: 1,350 (Peace Support); 1 obs opcon UNAMI

**Azerbaijan** 150 (Peace Support)

**Bulgaria Army:** £466 (Peace Support)

**Canada** 1 obs opcon UNAMI

**Czech Republic** 10 medical (surgical team); 97 MP

**Denmark Army:** 517; £63 (det from L); 1 obs opcon UNAMI

**El Salvador Army:** 360 (Peace Support)

**Estonia** 3 Army (NTM-1, PAO, US CENTCOM); 1 inf pl (Operation Iraqi Freedom)

**Fiji** 134 opcon UNMIK

**Georgia** 850 (Peace Support) Army

**Hungary Army:** 293 (Peace Support)

**Italy Army:** 1 (Carabinieri) Army det; 1 mech inf; 1 marine coy; 2,640 (Peace Support)

**Japan Air Self-Defense Force:** 200 (Peace Support - in Kuwait) Ground Self-Defense Force: £550 (Peace Support) Maritime Self-Defense Force: £300 (Peace Support)

**Korea, Republic of** 3,200

**Latvia Army:** 120 (Peace Support)

**Lithuania Army:** 63 (Peace Support)

**Macedonia, Former Yugoslav Republic Army:** 28 (Peace Support - to be deployed)

**Mongolia Army:** 131 (Peace Support)

**Netherlands Air Force:** 15 MTM, 2 MNF-1

**New Zealand Army:** 61 (Peace Support) some; 1 obs opcon UNAMI

**Norway Army:** 12 (staff officers, Peace Support)

**Poland Army:** 8 PZL W-3 *Sokol* spt hel; 4 Mi-17U *Hip H Trg*/Mi-8 *Hip* spt; 1 mech inf bde; to be 2,300 (Peace Support)

**Portugal Army:** 6 NATO, 2 Coalition

**Romania Army:** 1 mech inf bn; £860

**Slovakia Army:** 104 (Peace Support)

**Thailand Army:** £400 (Peace Support - to withdraw Sep 2004)

**Ukraine Ground Forces (Army):** 1,621 (Peace Support)

**United Kingdom:** 1 (composite) Army HQ; 1 armd bde; some spt unit; 9,500 (Peace Support); 1 obs opcon UNAMI; RN *Sea King* Mk4 at Basrah; AAC *Lynx*; RAF *Hercules* C-130J; *Nimrod* MR2; *Merlin* hel; 4/5 RAF regt (Force Protection); *Predator* UAV

**United States USCENTCOM:** 1 MEF HQ (1 MAW with up to 48 F/A-18A *Hornet*/F/A-18C *Hornet*; up to 36 F/A-18D *Hornet*; some F-15 *Eagle*; some F-16 *Fighting Falcon*; some A-10 *Thunderbolt*; some Intelligence, Surveillance and Recce ac; up to 64 AV-8B *Harrier II*; up to 12 KC-130 *Hercules*; up to 92 AH-1W *Cobra*; up to 90 CH-46E *Sea Knight*; up to 64 CH-53E *Sea Stallion*; up to 50 UH-1N *Iroquois*, 1 FSSG regt, 1 MARDIV div with up to 58 M-1 *Abrams*; up to 207 LAV-CP; up to 247 AAV; up to 72 M-198; 1 armd div; 1 armd bde; 1 armd cav regt (cav regt is bde equivalent); 1 mech inf div; 1 air aslt div; 85,600; 2,850; 7,100; 26,050; 121,600 (*Op Iraqi Freedom*)

## Israel II

| New Israeli Shekel<br>NS |      | 2004   | 2005    | 2006   |
|--------------------------|------|--------|---------|--------|
| GDP                      | NS   | 523bn  | 555bn   |        |
|                          | US\$ | 117bn  | 127bn   |        |
| per capita               | US\$ | 18,874 | 20,233  |        |
| Growth                   | %    | 4.3    | 4.6     |        |
| Inflation                | %    | -0.4   | 1.3     |        |
| Debt                     | US\$ |        |         |        |
| Def exp                  | NS   | 43.2bn | 44.0bn  |        |
|                          | US\$ | 9.68bn | 10.07bn |        |
| Def bdgt                 | NS   | 35.0bn | 34.4bn  | 33.8bn |
|                          | US\$ | 7.83bn | 7.87bn  | 7.17bn |
| FMA (US)                 | US\$ | 2.15bn | 2.20bn  | 2.26bn |
| US\$1=NS                 |      | 4.47   | 4.37    | 4.71   |

Population 6,276,883

Ethnic groups: Jewish 82%; Arab 19% (incl Christian 3%, Druze 2%; Circassian 3,000)

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 14%  | 4%    | 4%    | 4%    | 20%   | 4%      |
| Female | 13%  | 4%    | 4%    | 4%    | 20%   | 6%      |

## Capabilities

**ACTIVE 168,300** (Army 125,000 Navy 8,000 Air 35,000) Paramilitary 8,050

**RESERVE 408,000** (Army 380,000 Navy 3,500 Air 24,500)

*Terms of service* officers 48 months, other ranks 36 months, women 24 months (Jews and Druze only; Christians, Circassians and Muslims may volunteer). Annual trg as cbt reservists to age 41 (some specialists to age 54) for men, 24 (or marriage) for women

## ORGANISATIONS BY SERVICE

### Strategic Forces

Israel is widely believed to have a nuclear capability with up to 200 warheads. Delivery means include AC, *Jericho* 1 and *Jericho* 2 (IRBM and SRBM)

**MSL • STRATEGIC**

IRBM: *Jericho* 2

SRBM: *Jericho* 1

**WARHEADS** up to 200 nuclear warheads

**Army 20,000; 105,000 conscript; 500,000+ on mobilisation; (total 125,000-625,000)**

Organisation and structure of formations may vary according to op situations

### FORCES BY ROLE

3 regional commands (each with:) 2 regular divs, 1-2 regional/territorial divs, 2 regular bdes

Armd 2 div; 15 bde

Inf 4 div; 12 bde

Para 8 bde

Arty 4 regt

SP arty 8 regt

### Regional/Territorial Forces

Can be mobilised in 72hrs

Inf 11 (territorial/regional) bde

### Reserve Organisations

**Reserves** €380,000 reservists

Armd 8 div (*total*: 15 armd bde, 6 arty regt, 4 inf bde, 6 mech inf bde)

Air Mob 1 div (3 air mob bde, 1 para bde)

### EQUIPMENT BY TYPE

**TK • MBT** 3,657:

**Merkava** 1681: 441; 407 Mk1; 375 MkII; 378 MkIII; 80 MkIV

**Magach-7** 111 **Ti-67** 261 (T-55 mod)

**M-60** 711: 711 M-60 MBT/M-60A1/M-60A3

**Centurion** 206 **T-54/T-55/T-62S** 126

**M-48** 561: 561 M-48A5

**RECCE** 408: €400 RBY-1 RAMTA; €8 Tpz-1 *Fuchs*

**APC** 10,419+

**APC (T)** 10,373+: 276 *Achzarit* (T-55)

**M-113** 6,131: 6,131 M-113A1/M-113A2

**M-2** 180 some in store

**M-3** 3,386 some in store

*Nagmachon* €400 (*Centurion* chassis)

*Nakpadon* some

**APC (W)** 46

**BTR** 40: 34 BTR-152; 6 BTR-40

*Puma* 6 (*Centurion*)

**ARTY** 5,432

**TOWED** 456

**105mm • M-101** 70: 70 M-101A1

**122mm** 5: 5 D-30

**130mm** 100: 100 M-46

**155mm** 281

**M-114** 50: 50 M-114A1 in reserve

**M-46** 100 **M-68/M-71** 50 **M-839P/M-845P** 81

**SP** 620

**155mm** 548: 148 L-33

**M-109** 350: 350 M-109A1

**M-50** 50

**175mm** 36: 36 M-107

**203mm** 36: 36 M-110

**MRL** 224

**122mm** 58: 58 BM-21

**160mm** 50: 50 LAR-160

**227mm** 60: 60 MLRS

**240mm** 36: 36 BM-24

**290mm** 20: 20 LAR-290

**MOR** 4,132: 2,000 52mm; 1,358 81mm; 652 120mm (towed)

**160mm** 122: 104 M-43 in reserve; 18 M-66 *Soltam*

**AT**

**MSL** 1,225+: some AT-3 *Sagger*; 900 M47 *Dragon*; 25 MAPATS

**SPIKE** some *Gil/Spike*

**TOW • TOW-2** 300: 300 TOW-2A/TOW-2B (incl Ramta (M-113) SP)

**RCL • 106mm • M-40** 250: 250 M-40A1



**RL • 82mm:** some B-300  
**AD • SAM • MANPAD** 1,250: 1,000 FIM-43 *Redeye*; 250 FIM-92A *Stinger*  
**RADAR • LAND:** some AN/PPS-15 (arty); some AN/TPQ-37 *Firefinder* (arty); some EL/M-2140 (veh)  
**MSL** 107  
**STRATEGIC** 100: €100 *Jericho* 1 SRBM/*Jericho* 2 IRBM  
**TACTICAL • SSM** 7: 7 *Lance* (in store)

**Navy** €5,500; 2,500 conscript; 3,500 reservists; 11,500 on mobilisation; (total 11,500–23,000)

#### EQUIPMENT BY TYPE

##### SUBMARINES • TACTICAL • SSK 3:

3 *Dolphin* (Ge Type-212 variant) each with 6 single 533mm TT each with 5 UGM-84C *Harpoon* tactical USGW, 16 HWT, 4 single 650mm TT

##### PRINCIPAL SURFACE COMBATANTS • CORVETTES

###### • FSG 3:

3 *Eilat* (*Sa'ar* 5) (capacity either 1 AS-565SA *Panther* ASW hel or 1 AS-366G *Dauphin II* SAR hel) each with 2 Mk 140 *Harpoon* quad (8 eff.) each with 1+ RGM-84C *Harpoon* tactical SSM, 2 triple (6 eff.) each with Mk 46 LWT, 2 32 cell VLS (64 eff.) each with up to 64 *Barak* SAM, 1 76mm gun

##### PATROL AND COASTAL COMBATANTS 66

###### MISC BOATS/CRAFT • SPECIAL WARFARE

**SUPPORT CRAFT** 1: 1 *Katler*

**PCC** 3: 3 Type-1012 *Bobcat* catamaran

**PCI** 3: 3 *Nashal*

###### PFI 32:

1 *Alligator*

18 *Dabur* less than 100 tonnes each with 2 x1 324mm TT each with Mk 46 LWT

13 *Super Dvora* MKI MKII less than 100 tonnes (SSM, and TT may be fitted) each with 2 x1 324mm TT each with Mk 46 LWT

###### PFM 12:

2 *Aliya* each with 4 single each with 1 GII *Gabriel II* tactical SSM, 2 Mk 140 twin each with 4 RGM-84C *Harpoon* tactical SSM

8 *Hetz* (*Sa'ar* 4.5) each with 6 single each with 1 GII *Gabriel II* tactical SSM, 2 Mk 140 twin each with 1 RGM-84C *Harpoon* tactical SSM, 1 32 Cell/Mk 56 (1-32 eff.) with *Barak* SAM, 1 76mm gun

2 *Reshef* (*Sa'ar* 4) each with 4–6 single each with 1 GII *Gabriel II* tactical SSM, 1 Mk 140 twin with 1 RGM-84C *Harpoon* tactical SSM, 1 76mm gun

**PFI** 8: 6 *Supernova* MK III; 2 *Shaldag*

**PFB** 7: 4 *Tzir'a*; 3 *Stingray*

##### AMPHIBIOUS • CRAFT 2

**LCT** 1: 1 *Ashdod*

**LCM** 1: 1 US type

##### LOGISTICS AND SUPPORT 2

**AG** 2 (ex German Type T45)

##### FACILITIES

Bases Located at Haifa, Atlit (Naval Commandos), Eilat, Ashdod

#### Naval Aviation

**HELICOPTERS • ASW** 5: 5 AS-565SA *Panther*

#### Naval Commandos €300

**Air Force** 35,000; 24,500 reservists (total 59,500)

Responsible for Air and Space Coordination

#### FORCES BY ROLE

**Ftr/FGA** 2 sqn with 29 F-15A *Eagle*; 7 F-15B *Eagle*; 17 F-15C *Eagle*; 11 F-15D *Eagle*; 8 sqn with 90 F-16A *Fighting Falcon*; 20 F-16B *Fighting Falcon*; 52 F-16C *Fighting Falcon*; 74 F-16D *Fighting Falcon*; 1 sqn with 12 F-16I *Sufa* (102 being delivered at rate of 2/month); 3 sqn with 39 A-4N *Skyhawk*; 1 sqn with 25 F-15I *Ra'am*

**ASW** AS-565SA *Panther* (missions flown by IAF but with some in non-rated aircrew)

**MR** 1 sqn with 3 IAI-1124 *Seascan*

**EW** 5 RC-12D *Guardrail*; 3 B-707 (ELINT/ECM); 4 Beech 200CT *Super King Air*; 2 C-130H *Hercules* (ELINT); 8+ Do-28; 3 Gulfstream G-550 (ELINT); 6 IAI-202 *Arava*

**AEW** 1 sqn with 2 B-707 (with *Phalcon* system)

**Tpt** 1 sqn with 5 B-707 (transport/tanker)

**Tkr** 1 sqn with 5 KC-130H *Hercules*

**Liaison** 1 sqn with 2 BN-2 *Islander*; 8 Beech 80 *Queen Air*; 22 Cessna U-206 *Stationair*

**Atk hel** 4 sqn with 16 AH-1E *Cobra*; 39 AH-1F *Cobra*; 40 AH-64A *Apache*; *Sarat* (AH-64D) *Apache* (First of 18)

**Tpt hel** 6 sqn with 41 CH-53D *Sea Stallion*; 24 S-70A *Black Hawk*; 43 Bell 206 *JetRanger*; 34 Bell 212; 10 UH-60A *Black Hawk*; 14 UH-60L *Black Hawk*

**Trg** Trg units with 4 Beech 80 *Queen Air*; 43 CM-170 *Magister* (being replaced for lead-in ftr trg by A-4N); 17 Grob 120; 10 TA-4H *Skyhawk\**; 16 TA-4J *Skyhawk\**

**UAV** 1 sqn with *Delilah*; *Firebee*; *Harpy*; RQ-5A *Hunter*; *Samson*; *Scout*; *Searcher* MK II; Silver Arrow *Hermes* 450

**SAM** 2 bty each with 9 Arrow II; 3 bty each with 16 PAC-2; 17 bty with MIM-23 *HAWK*; 3 bty with MIM-104 *Patriot*

#### EQUIPMENT BY TYPE

##### AIRCRAFT 402 combat capable

###### FTR 199

**F-16** 110: 90 F-16A *Fighting Falcon*; 20 F-16B *Fighting Falcon*

**F-15** 89: 29 F-15A *Eagle*; 7 F-15B *Eagle*; 17 F-15C *Eagle*; 11 F-15D *Eagle*; 25 F-15I *Ra'am*

###### FGA 177+

**A-4** 39: 39 A-4N *Skyhawk*

**F-16C** *Fighting Falcon* 52 **F-16D** *Fighting Falcon* 74 **F-16I** *Sufa* 12 (102 being delivered at rate of 2/month)**A-4** *Skyhawk*/**F-4** *Phantom II*/**Kfir** **C-7** some

###### RECCE • RC-12 5: 5 RC-12D *Guardrail*

**MP** 3: 3 IAI-1124 *Seascan*

**TKR • KC-130** 5: 5 KC-130H *Hercules*

**TPT** 63+: 2 B-707 (with *phalcon* system); 5 (tpt/tkr); 3 (ELINT/ECM); 2 BN-2 *Islander*

**BEECH 200** 4: 4 Beech 200CT *Super King Air*

**Beech 80** *Queen Air* 12

C-130 7: 2 C-130H *Hercules* (ELINT); 5 more  
C-47 *Skytrain* 11 Do-28 8+ *Gulfstream* G-550 3 (ELINT)IAI-202 *Arava* 6  
UTL • CESSNA 206 22: 22 Cessna U-206 *Stationair*  
TRG 86: 43 CM-170 *Magister* (being replaced for lead-in fr trg by A-4N); 17 Grob 120  
TA-4 26: 10 TA-4H *Skyhawk*\*; 16 TA-4J *Skyhawk*\*

**HELICOPTERS**  
ATK 95+  
AH-1 55: 16 AH-1E *Cobra*; 39 AH-1F *Cobra*  
AH-64 40+: 40 AH-64A *Apache*; some *Sarat* (AH-64D) *Apache* (First of 18)  
ASW: 7 AS-565SA *Panther* (missions flown by IAF but with some in non-rated aircrew)  
SPT 65  
CH-53 41: 41 CH-53D *Sea Stallion*  
S-70 24: 24 S-70A *Black Hawk*  
UTL 101: 43 Bell 206 *JetRanger*; 34 Bell 212  
UH-60 24: 10 UH-60A *Black Hawk*; 14 UH-60L *Black Hawk*  
UAV 22+: some *Delilah*; some *Firebee*  
RECCE • TAC: some *Harpy*; some RQ-5A *Hunter*, some *Samson*, some *Scout*, 22+ *Searcher* MK II (some, 22 in store); some Silver Arrow *Hermes* 450

**AD**  
SAM 66+: 18 *Arrow* II; 48 PAC-2  
M-163 *Vulcan* SP 20mm/M-163 *Machbet* *Vulcan* SP 20mm/M-48 *Chaparral* SP SAM 35 each with 4 FIM-92A *Stinger* MANPAD SAM  
SAM 66+  
TOWED: some MIM-104 *Patriot*; some MIM-23 *HAWK*  
GUNS 815  
23mm 210  
SP 60: 60 ZSU-23-4  
TOWED 150: 150 ZU-23  
M-167 *Vulcan* towed 20mm/M-1939 towed 37mm/  
TCM-20 towed 20mm 455  
40mm • TOWED 150: 150 L/70  
MSL • TACTICAL • ASM: some AGM-114 *Hellfire*; some AGM-45 *Shrike*  
AGM-62: some AGM-62B *Walleye*  
AGM-65: some *Maverick*  
AGM-78: some AGM-78D *Standard*  
POPEYE I: some *Popeye* I tactical ASM/*Popeye* II  
AAM: some AIM-120 *AMRAAM*; some AIM-7 *Sparrow*; some AIM-9 *Sidewinder*; some *Python* III; some *Python* IV; some *Shafir*  
BOMB • PGM • JDAM: some GBU-31

**Airfield Defence** 3,000 active; 15,000 reservists (total 18,000)

**Paramilitary** €8,050

**Border Police** €8,000  
APC • APC (W): some *Walid*

**Coast Guard** €50  
PATROL AND COASTAL COMBATANTS 4: 3 PC; 1 PCR (US)

DEPLOYMENT

**TURKEY**  
Air Force  
**FORCES BY ROLE**  
up to 1 fr det (occasional) located at Akinci, Tu with F-16 *Fighting Falcon*  
**EQUIPMENT BY TYPE**  
AIRCRAFT • FTR: some F-16 *Fighting Falcon*

| Jordan HKJ        |      |        |        |         |
|-------------------|------|--------|--------|---------|
| Jordanian Dinar D |      | 2004   | 2005   | 2006    |
| GDP               | D    | 7.9bn  | 8.6bn  |         |
|                   | US\$ | 11.1bn | 12.1bn |         |
| per capita        | US\$ | 1,983  | 2,103  |         |
| Growth            | %    | 6.7    | 5.9    |         |
| Inflation         | %    | 3.4    | 3.9    |         |
| Debt              | US\$ |        |        |         |
| Def bdgt          | D    | 653m   | 679m   | €730m   |
|                   | US\$ | 920m   | 956m   | €1,028m |
| FMA (US)          | US\$ | 205m   | 304m   | 208m    |
| US\$1=D           |      | 0.71   | 0.71   | 0.71    |

| Population     | 5,759,732           |       |       |       |       |         |
|----------------|---------------------|-------|-------|-------|-------|---------|
| Ethnic groups: | Palestinian €50-60% |       |       |       |       |         |
| Age            | 0-14                | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
| Male           | 18%                 | 5%    | 5%    | 5%    | 18%   | 2%      |
| Female         | 17%                 | 5%    | 5%    | 4%    | 15%   | 2%      |

**Capabilities**  
**ACTIVE 100,500** (Army 85,000 Navy 500 Air 15,000)  
Paramilitary 10,000  
**RESERVE 35,000** (Army 30,000 Joint 5,000)

ORGANISATIONS BY SERVICE

**Army** 85,000; 30,000 reservists (obligation to age 40) (total 115,000)  
**FORCES BY ROLE**  
Army 1 (Northern) comd (1 inf bde, 1 arty bde, 1 AD bde, 2 mech bde); 1 (Southern) comd (1 armd bde, 1 inf bde); 1 (Eastern) comd (1 AD bde, 1 arty bde, 2 mech bde); 1 (Central) comd (1 AD bde, 1 lt inf bde, 1 mech bde, 1 arty bde)  
Reserve armd 1 (Royal) div (1 arty bde, 1 AD bde, 3 armd bde)  
Spec Ops 1 comd (1 Ranger bn, 1 (counter-terrorism) army bn, 2 SF bde)

**EQUIPMENT BY TYPE**  
TK 1,139  
MBT 1,120: 390 CR1 *Challenger* 1 (*Al Hussein*); 274 FV4030/2 *Khaliid*  
M-60 288: 288 M-60A1/M-60A3

Middle East and North Africa

*Tariq Centurion* 90 (Centurion in store)  
**M-47/M-48A5** 78 (in store)  
**LT TK** 19: 19 *Scorpion*  
**AIFV** 226+  
**BMP** 26+: 26+ BMP-2  
**FSV 90 • MK III-20** 200: €200 *Ratel*-20  
**APC** 1,350  
**APC (T)** 1,300: €100 FV 103 *Spartan*  
**M-113** 1,200: 1,200 M-113A1/M-113A2  
**APC (W) • BTR** 50: 50 BTR-94 ((BTR-80))  
**ARTY** 1,233  
**TOWED** 94  
**105mm** 54: 36 M-102; 18 MOBAT (being delivered)  
**155mm** 36: 18 M-1/M-59; 18 M-114  
**203mm** 4: 4 M-115  
**SP** 399  
**105mm** 35: 35 M-52  
**155mm** 282  
**M-109** 253: 253 M-109A1/M-109A2  
**M-44** 29  
**203mm** 82: 82 M-110A2  
**MOR** 740: 450 81mm (incl 130 SP)  
**107mm** 60: 60 M-30  
**120mm** 230: 230 Brandt  
**AT**  
**MSL** 670: 30 *Javelin*; 310 M47 *Dragon*  
**TOW** 330: 330 TOW msl/TOW-2A (incl 20 M-901 ITV)  
**RL** 4,800+  
**112mm** 2,300: 2,300 APILAS  
**73mm**: some RPG-26  
**94mm** 2,500: 2,500 LAW-80  
**AD**  
**SAM** 992+  
**SP** 152: 92 SA-13 *Gopher*; 60 SA-8 *Gecko*  
**MANPAD** 840+: 250 FIM-43 *Redeye*; 300 SA-14 *Gremlin*;  
 240 SA-16 *Gimlet*; some SA-18 *Grouse* (*Igla*)  
**SA-7** 50: 50 SA-7B2 *Grail*  
**GUNS** 395  
**20mm • SP** 139: 139 M-163 *Vulcan*  
**23mm • SP** 40: 40 ZSU-23-4  
**40mm • SP** 216: 216 M-42 (not all op)  
**RADAR • LAND**: some AN/TPQ-36 *Firefinder*/AN/TPQ-37  
*Firefinder* (arty, mor)

## Navy €500

### EQUIPMENT BY TYPE

#### PATROL AND COASTAL COMBATANTS 20

**PB** 7: 3 *Al Hashim* (Rotork); 4 *Faysal*  
**PCC** 10 less than 100 tonnes  
**PFI** 3: 3 *Al Hussein* less than 100 tonnes (Vosper 30m)

### FACILITIES

Base Located at Aqaba

## Air Force 15,000 (incl 3,400 AD)

Flying hours 180 hrs/year

### FORCES BY ROLE

**Ftr** 1 sqn with 15 F-1CJ (F-1C) *Mirage*/Mirage F-1BJ (F-1B); 1 sqn with 12 F-16A *Fighting Falcon*; 4 F-16B *Fighting Falcon*  
**FGA/ Recce** 1 sqn with 15 *Mirage* F-1EJ (F-1E); 3 sqn with 54 F-5E *Tiger II*/F-5F *Tiger II*

**Surv** some sqn with 2 RU-38A *Twin Condor*  
**Tpt** 1 sqn with 4 C-130H *Hercules*; 2 CASA 212A *Aviocar*; 2 CL-604 *Challenger*; 2 CN-235; 2 TB-20 *Trinidad*  
**VIP** 1 (Royal) flt with 1 A-340-211; 2 Gulfstream IV; 1 L-1011 *Tristar*; 3 S-70A *Black Hawk*  
**Atk hel** 2 sqn with 20+ AH-1F *Cobra* with TOW tactical ASM  
**Tpt hel** 2 sqn with 12 AS-332M *Super Puma*; 3 BO-105 (operated on behalf of the police); 13 EC-635 (utl/SAR); 36 UH-1H *Iroquois*; 1 hel sqn dedicated to SOF  
**Trg** 3 sqn with 15 *Bulldog* 103 (being replaced by 16 T-67M); 11 CASA C-101 *Aviojet*; 8 Hughes 500D  
**AD** 2 bde (total: 14 AD bty each with 80 I-HAWK MIM-23B, 3 AD bty with PAC-2)

### EQUIPMENT BY TYPE

#### AIRCRAFT 100 combat capable

##### FTR 85

**F-5** 54: 54 F-5E *Tiger II*/F-5F *Tiger II*

**F-16** 16: 12 F-16A *Fighting Falcon*; 4 F-16B *Fighting Falcon*

**F-1** 15: 15 *Mirage* F-1EJ (F-1E)

**MP • RU-38** 2: 2 RU-38A *Twin Condor*

##### TPT 14

**A-340** 1: 1 A-340-211

**C-130** 4: 4 C-130H *Hercules*

**CASA 212** 2: 2 CASA 212A *Aviocar*

**CL-604 Challenger** 2 CN-235 2 Gulfstream IV 2 L-1011 *Tristar* 1

**UTL** 2: 2 TB-20 *Trinidad*

**TRG** 28: 15 *Bulldog* 103 (being replaced by 16 T-67M firefly); 11 CASA C-101 *Aviojet*

**F-1CJ (F-1C) Mirage FTR/Mirage F-1BJ (F-1B) Trg** 15\*

### HELICOPTERS

**ATK • AH-1** 20+:

20+ AH-1F *Cobra* each with TOW tactical ASM

##### SPT 15

**AS-332** 12: 12 AS-332M *Super Puma*

**S-70** 3: 3 S-70A *Black Hawk*

**UTL** 56: 3 BO-105 (operated on behalf of the police); 13 EC-635 (ult/SAR)

**HUGHES 500** 8: 8 Hughes 500D

**UH-1** 36: 36 UH-1H *Iroquois*

**AD • SAM** 1120+: some PAC-2

**TOWED • MIM-23** 1,120: 1,120 I-HAWK MIM-23B

**MSL • TACTICAL • ASM • AGM-65**: some AGM-65D *Maverick*

**TOW** some

**AAM**: some AIM-7 *Sparrow*; some AIM-9 *Sidewinder*; some R-550 *Magic*; some R530

## Paramilitary 10,000 active

### Public Security Directorate €10,000 active

Ministry of Interior

#### FORCES BY ROLE

Sy 1 (Police Public) bde

#### EQUIPMENT BY TYPE

**TK • LT TK**: some *Scorpion*

**APC • APC (W)** 55+: 25+ EE-11 *Urutu*; 30 FV603 *Saracen*

## Reserve Organisations

**Civil Militia 'People's Army'** €35,000 reservists  
men 16–65, women 16–45

## DEPLOYMENT

### BURUNDI

UN • ONUB 64; 5 obs

### CÔTE D'IVOIRE

UN • UNOCI 209; 7 obs

### DEMOCRATIC REPUBLIC OF CONGO

UN • MONUC 26 obs

### ETHIOPIA/ERITREA

UN • UNMEE 983; 7 obs

### HAITI

UN • MINUSTAH 1,517

### GEORGIA

UN • UNOMIG 8 obs

### LIBERIA

UN • UNMIL 123; 7 obs

### SERBIA AND MONTENEGRO

UN • UNMIK 2 obs

### SIERRA LEONE

UN • UNAMSIL 84; 4 obs

### SUDAN

UN • UNMIS 8; 15 obs

## Kuwait Kwt

| Kuwaiti Dinar D |      | 2004   | 2005    | 2006 |
|-----------------|------|--------|---------|------|
| GDP             | D    | 16.4bn | 21.2bn  |      |
|                 | US\$ | 52.9bn | 68.4bn  |      |
| per capita      | US\$ | 23,432 | 29,280  |      |
| Growth          | %    | 7.2    | 5.6     |      |
| Inflation       | %    | 1.8    | 3.7     |      |
| Debt            | US\$ |        |         |      |
| Def bdgt        | D    | 1.23bn | €1.32bn |      |
|                 | US\$ | 3.99bn | €4.27bn |      |
| US\$1=D         |      | 0.31   | 0.31    | 0.31 |

Population 2,335,648

Ethnic groups: Nationals 35%; other Arab 35%; South Asian 9%; Iranian 4%; other 17%

| Age    | 0–14 | 15–19 | 20–24 | 25–29 | 30–64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 14%  | 4%    | 7%    | 9%    | 25%   | 2%      |
| Female | 13%  | 4%    | 5%    | 5%    | 11%   | 1%      |

## Capabilities

**ACTIVE 15,500** (Army 11,000 Navy 2,000 Air 2,500)

**Paramilitary 6,600**

*Terms of service* voluntary

**RESERVE 23,700** (Joint 23,700)

*Terms of service* obligation to age 40; 1 month annual trg

## ORGANISATIONS BY SERVICE

**Army 7,300; up to 3,700** (foreign personnel)  
(total 11,000)

### FORCES BY ROLE

|            |   |
|------------|---|
| Army       | 1 (reserve) bde   |
| Armd       | 3 bde   |
| Mech/Recce | 1 bde   |
| Mech Inf   | 2 bde   |
| SF         | 1 unit (forming)  |
| Cdo        | 1 bn  |
| Arty       | 1 (force) bde   |
| Engr       | 1 (force) bde   |
| Gd         | 1 (Amiri) bde   |
| AD         | 1 comd (some (small number of <i>Stinger</i> ) AD<br>bty, 4 (HAWK Phase III) AD bty, 5 ( <i>Patriot</i> PAC-<br>2) AD bty, 6 ( <i>Amoun</i> ( <i>Skyguard/Aspide</i> )) AD bty) |

### EQUIPMENT BY TYPE

TK • MBT 368

M-1 218: 218 M1-A2 *Abrams*

M-84 75; 75 in store

AIFV up to 450

BMP up to 196: up to 76 BMP-2; up to 120 BMP-3

254 *Desert Warrior* (incl variants)

APC 321

APC (T) 270

M-113 230: 230 M-113A2

M-577 40

APC (W) 51: 40 TH 390 *Fahd* in store; 11 TPz-1 *Fuchs*

ARTY 218

SP • 155mm 113: 18 AU-F-1 in store

M-109 23: 23 M-109A3

Mk F3 18 PLZ45 54

MRL • 300mm 27: 27 9A52 *Smerch*

MOR 78: 60 81mm

107mm 6: 6 M-30

120mm 12: €12 RT-F1

AT

MSL 118+: some M47 *Dragon*

TOW 118: 44 TOW Msl/TOW-2; 66 HMMWV; 8 M-901

RCL • 84mm 200: €200 *Carl Gustav*

AD • SAM 84

TOWED • MIM-23 • I-HAWK 24: 24 I HAWK Phase III

MIM-23B

STATIC 12: 12 *Aspide*

MANPAD 48: 48 *Starburst*

GUNS • 35mm • TOWED: some Oerlikon

**Navy €2,000** (incl 500 Coast Guard)

### EQUIPMENT BY TYPE

PATROL AND COASTAL COMBATANTS 40

MISC BOATS/CRAFT €30

PFM 10:

1 *Al Sanbouk* (Ge *Lurssen* TNC-45) with 2 twin (4 eff.)  
each with 1 MM-40 *Exocet* tactical SSM

1 *Istiqlal* (Ge *Lurssen* FPB-57) with 2 twin (4 eff.) each  
with 1 MM-40 *Exocet* tactical SSM

8 *Um Almaradim* (Fr P-37 BRL) each with 2 twin (4 eff.)  
each with 1 *Sea Skua* tactical SSM, 1 sextuple (6 eff.)  
(launcher only)

**AMPHIBIOUS • CRAFT 2:** 2 LCM  
**LOGISTICS AND SUPPORT 4:** 4 spt

#### FACILITIES

Base Located at Ras al Qalaya

#### Air Force €2,500

Flying hours 210 hrs/year

#### FORCES BY ROLE

Ftr/FGA 2 sqn with 31 F/A-18C *Hornet*; 8 F/A-18D *Hornet*  
 CCT 1 sqn with 11 *Hawk* MK64; 8 *Tucano* T MK52 (Shorts 312); 8†  
 Tpt 2 sqn with 1 DC-9; 3 L-100-30; 4 AS-332 *Super Puma* (tpt/SAR/atk); 9 SA-330 *Puma*  
 Trg/atk hel 1 sqn with 16 SA-342 *Gazelle* each with HOT tactical ASM  
 Atk hel 1 sqn with 16 AH-64D *Apache*

#### EQUIPMENT BY TYPE

**AIRCRAFT** 50 combat capable

**FGA • F/A-18** 39: 31 F/A-18C *Hornet*; 8 F/A-18D *Hornet*  
**TPT** 4: 1 DC-9  
**L-100** 3: 3 L-100-30  
**TRG** 27: 11 *Hawk* MK64\*  
**TRG** 27: 8 *Tucano* T MK52 (Shorts 312); 8†

#### HELICOPTERS

**ATK • AH-64** 16: 16 AH-64D *Apache*  
**ASLT** 16: 16 SA-342 *Gazelle*\* each with HOT tactical ASM  
**SPT** 13: 4 AS-332 *Super Puma* (tpt/SAR/attack); 9 SA-330 *Puma*

#### Paramilitary €6,600 active

**National Guard** €6,600 active

#### FORCES BY ROLE

Armd 1 (armd car) bn  
 SF 1 bn  
 Paramilitary 3 (national guard) bn  
 MP 1 bn

#### EQUIPMENT BY TYPE

**RECCE** 20: 20 VBL  
**APC • APC (W)** 92: 70 *Pandur*; 22 S600 (incl variants)

#### Coast Guard 500

**PATROL AND COASTAL COMBATANTS** €53+

**PCC** 7: 3 *Al Shaheed*; 4 *Inttisar* (Aust 31.5m)  
**PB** 9: 9 *Subahi*  
**PBR** 38

**AMPHIBIOUS • CRAFT 3:** 3 LCU

#### FOREIGN FORCES

**United Kingdom** Army:

**United States** USCENTCOM: 19,700; 1,250; 2,700; 1,600

**Germany** (*Op Enduring Freedom*): 50

## Lebanon RL

| Lebanese Pound LP |      | 2004   | 2005   | 2006  |
|-------------------|------|--------|--------|-------|
| GDP               | LP   | 30.7tr | 31.5tr |       |
|                   | US\$ | 20.4bn | 20.9bn |       |
| per capita        | US\$ | 5,396  | 5,458  |       |
| Growth            | %    | 5.0    | 0.1    |       |
| Inflation         | %    | 3.0    | 2.4    |       |
| Debt              | US\$ |        |        |       |
| Def bdgt          | LP   | 796bn  | €800bn |       |
|                   | US\$ | 528m   | €531m  |       |
| US\$1=LP          |      | 1,507  | 1,507  | 1,507 |

**Population** 3,826,018

**Ethnic groups:** Christian 30%; Druze 6%; Armenian 4%, excl €300,000 Syrian nationals and €350,000 Palestinian refugees

| Age    | 0–14 | 15–19 | 20–24 | 25–29 | 30–64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 14%  | 4%    | 5%    | 6%    | 17%   | 3%      |
| Female | 13%  | 4%    | 5%    | 5%    | 20%   | 4%      |

## Capabilities

**ACTIVE 72,100** (Army 70,000 Navy 1,100 Air 1,000)

**Paramilitary 13,000**

*Terms of Service* 1 year

## ORGANISATIONS BY SERVICE

### Army 70,000 (incl conscripts)

#### FORCES BY ROLE

Region 5 comd  
 Mech inf 11 bde under strength  
 Mne cdo 1 regt  
 SF 5 regt  
 Cdo/Ranger 1 regt  
 Air aslt 1 regt  
 Arty 2 regt  
 Presidential Guard 1 bde  
 MP 1 bde

#### EQUIPMENT BY TYPE

**TK • MBT** 310: 200 T-54/T-55

**M-48** 110: 110 M-48A1/M-48A5

**RECCE** 60: 60 AML

**APC** 1,257

**APC (T) • M-113** 1164: 1,164 M-113A1/M-113A2

**APC (W)** 93: 12 M-3/VTT

**VAB** 81: 81 VAB VCI

**ARTY** 541

**TOWED** 147

**105mm • M-101** 13: 13 M-101A1

**122mm** 56: 24 D-30; 32 M-30 M-1938

**130mm** 16: 16 M-46

**155mm** 62

**M-114** 15: 15 M-114A1

**M-198** 32 **Model-50** 15

**MRL • 122mm** 25: 25 BM-21



MOR 369: 158 81mm; 111 82mm  
120mm 100: 100 Brandt

#### AT

MSL 70: 30 ENTAC; 16 *Milan*; 24 TOW  
RCL • 106mm • M-40 50: 50 M-40A1  
RL • 73mm: some RPG-7 *Knout*  
89mm: some M-65

#### AD

SAM • MANPAD • SA-7 20: 20 SA-7A *Grail*/SA-7B *Grail*  
GUNS 10+: some 20mm  
23mm • TOWED: some ZU-23  
40mm • SP • M-42 10: 10 M-42A1

### Navy €1,100

#### EQUIPMENT BY TYPE

#### PATROL AND COASTAL COMBATANTS €32

PCI 7: 5 *Attacker* (UK, under 100 tonnes); 2 *Tracker* (UK, under 100 tonnes)

PBR 25

AMPHIBIOUS • LS • LST 2: 2 *Sour* (capacity 96 troops) (Fr *Edic*)

#### FACILITIES

Bases Located at Jounieh, Beirut

### Air Force 1,000

Many ac grounded and in store

#### AIRCRAFT

FGA • HAWKER HUNTER 6: 6 *Hawker Hunter* FGA MK9 in store

TRG 8: 3 *Bulldog* 127 in store; 5 CM-170 *Magister* in store

#### HELICOPTERS

ATK 2: 2 SA-342 *Gazelle*

SPT 3: 3 SA-330 *Puma*

UTL 35: 5 Bell 212; 2 R-44 (utl/trg); 3 SA-316 *Alouette III*; 1 SA-318 *Alouette II*

UH-1 24: 24 UH-1H *Iroquois*

### Paramilitary €13,000 active

#### Internal Security Force €13,000

Ministry of Interior

#### FORCES BY ROLE

Police 1 (Judicial) unit

Regional 1 coy

Paramilitary 1 (Beirut Gendarmerie) coy

#### EQUIPMENT BY TYPE

APC • APC (W) 60: 60 V-200 *Chaimite*

#### Customs

PATROL AND COASTAL COMBATANTS • PCI 7: 5  
*Aztec* less than 100 tonnes; 2 *Tracker* less than 100 tonnes

### NON-STATE ARMED GROUPS

see Part II

### FOREIGN FORCES

France UNFIL 200 Army: 1 log bn (elm)

Ghana 1 inf bn; UNFIL 646

India UNFIL 671

Ireland UNFIL 5

Italy UNFIL 52

Poland 1 inf bn; UNFIL 210

**Syria Army:** (Before withdrawal of troops, Syria maintained the following forces in Lebanon.) 1 armd bde; 1 mech div HQ; 4 mech inf bde; 10 SF regt (elm); 2 arty regt (elm); 16,000

Ukraine UNFIL 196

## Libya LAR

| Libyan Dinar D |      | 2004   | 2005   | 2006 |
|----------------|------|--------|--------|------|
| GDP            | D    | 34.9bn | 47.9bn |      |
|                | US\$ | 26.6bn | 37.1bn |      |
| per capita     | US\$ | 4,731  | 6,440  |      |
| Growth         | %    | 0.9    | 8.5    |      |
| Inflation      | %    | -1.0   | 3.1    |      |
| Debt           | US\$ |        |        |      |
| Def exp        | D    | £740m  | £763m  |      |
|                | US\$ | £564m  | £590m  |      |
| US\$1=D        |      | 1.31   | 1.29   | 1.34 |

Population 5,765,563

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 17%  | 5%    | 5%    | 5%    | 16%   | 2%      |
| Female | 17%  | 5%    | 5%    | 5%    | 15%   | 2%      |

## Capabilities

**ACTIVE 76,000** (Army 45,000 Navy 8,000 Air 23,000)

*Terms of service* selective conscription, 1-2 years

**RESERVE €40,000** (People's Militia)

### ORGANISATIONS BY SERVICE

**Army 20,000; €25,000 conscript (total 45,000)**

#### FORCES BY ROLE

11 Border Def and 4 Sy Zones

Army 1 (elite) bde (regime sy force)

Tk 10 bn

Mech inf 10 bn

Inf 18 bn

Cdo/para 6 bn

Arty 22 bn

SSM 4 bde

ADA 7 bn

#### EQUIPMENT BY TYPE

TK • MBT 2025+: 200 T-72; 115 in store; 100 T-62; 70 in store; 500 T-55; 1,040+ T-54/T-55 in store

RECCE 120

BRDM 50: 50 BRDM-2

EE-9 *Cascavel* 70

AIFV 1,000+: some BMD

**BMP** 1,000: 1,000 BMP-1  
**APC** 945  
**APC (T)** 28: 28 M-113  
**APC (W)** 917  
**BTR** 750: 750 BTR-50/BTR-60  
**EE-11 Urutu** 100  
**OT** 67: 67 OT-62/OT-64  
**ARTY** 2,421+  
**TOWED** 647+  
**105mm** 42+: 42+ M-101  
**122mm** 250: 190 D-30; 60 D-74  
**130mm** 330: 330 M-46  
**152mm** 25: 25 M-1937  
**SP** 444  
**122mm** 130: 130 2S1 *Carnation*  
**152mm** 140: 60 2S3; 80 M-77 *Dana*  
**155mm** 174: 14 M-109; 160 VCA 155 *Palmaria*  
**MRL** 830  
**107mm** 300: €300 Type-63  
**122mm** 530: €200 BM-11; €230 BM-21; €100 RM-70 *Dana*  
**MOR** 500: 428 82mm  
**120mm** 48: €48 M-43  
**160mm** 24: €24 M-160  
**AT**  
**MSL** 3,000: 3,000 AT-3 *Sagger*/AT-4 *Spigot*/AT-5 *Spandrel*/  
*Milan* (AT-3 (incl BRDM SP)  
**RCL** • **106mm** • **M-40** 220: 220 M-40A1  
**84mm**: some *Carl Gustav*  
**RL** • **73mm**: some RPG-7 *Knout*  
**AD**  
**SAM** • **SP** 24: 24 *Crotale* (quad)  
**SA-13 Gopher SP/SA-7 Grail MANPAD/SA-9 Gaskin**  
**SP** some  
**GUNS** 600: 600 M-53/59SP SP 30mm/S-60 towed 57mm/  
 ZSU-23-4 SP 23mm/ZU-23 towed 23mm  
**RADAR** • **LAND**: some RASIT (veh, arty)  
**MSL** • **TACTICAL** • **SSM** 125: 45 FROG-7  
**SCUD** 80: 80 *Scud-B* (SSM msl totals est 450–500)

### Navy 8,000 (incl Coast Guard)

#### EQUIPMENT BY TYPE

##### SUBMARINES • TACTICAL • SSK 2:

2 *Kyhlbert* (FSU *Foxtrot*)

##### PRINCIPAL SURFACE COMBATANTS 6

##### FRIGATES • FFG 2:

2 *Al Hani* (FSU *Koni*) with 2 twin 406mm ASTT (4 eff.)  
 each with USET-95 Type 40 LWT, 2 twin (4 eff.) each  
 with 1 SS-N-2C *Styx* tactical SSM, 1 RBU 6000 *Smerch*  
 2 (12 eff.)

##### CORVETTES • FSG 4:

1 *Ean al Gazala* (FSU *Nanuchka* II) with 4 single each  
 with 1 SS-N-2C *Styx* tactical SSM  
 3 FSU *Nanuchka* II†

##### PATROL AND COASTAL COMBATANTS • PFM 14:

6 *Al Zuara* (FSU *Osa* II) each with 4 single each with 1 SS-  
 N-2C *Styx* tactical SSM  
 8 *Sharaba* (Fr *Combattante* II) each with 4 single each with  
 1 Mk 2 Otomat SSM, 1 76mm gun

##### MINE WARFARE • MINE COUNTERMEASURES • MSO

7: 5 *Ras al Gelais* (FSU *Natya*); 2 non-operational

##### AMPHIBIOUS

##### LS 5

##### LSM 3:

3 *Polnochny D†* (capacity 180 troops; 6 MBT) (FSU)

##### LST 2:

2 *Ibn Ouf* (capacity 1 SA-316B *Alouette III* utl hel; 11  
 MBT; 240 troops)

##### CRAFT 3: 3 LCT

##### LOGISTICS AND SUPPORT 9: 1 ARS

**SPT** 2: 1 (diving); 1 *Zeltin* (log)

**TPT** 6: €5 (ro-ro) *El Tamsah* 1

##### FACILITIES

**Bases** Located at Tripoli, Benghazi, Tobruk, Khums

**Minor bases** Located at Derna, Zuwarah, Misonhah

### Coastal Defence

#### FORCES BY ROLE

**Msl** 1 bty with SS-C-3 *Styx*

#### EQUIPMENT BY TYPE

**MSL** • **TACTICAL** • **SSM**: some SS-C-3 *Styx*

### Naval Aviation

**HELICOPTERS** • **SAR** 7: 7 SA-321 *Super Frelon* (air force  
 assets)

### Air Force 10,000; €13,000 conscript (total 23,000)

**Flying hours** 85 hrs/year

#### FORCES BY ROLE

**Bbr** 1 sqn with 6 Tu-22 *Blinder*

**Ftr** 9+ sqn with 15 *Mirage* F-1ED (F-1E); 94 MiG-25  
*Foxbat*; 75 MiG-23 *Flogger*; 45 MiG-21 *Fishbed*; 3  
*Mirage* F-1BD (F-1B); 3 MiG-25U *Foxbat*

**FGA** 7 sqn with 6 Su-24MK *Fencer D*; 14 *Mirage* F-1AD  
 (F-1A); 40 MiG-23BN *Flogger H*; 53 Su-17M-2  
*Fitter D*/Su-20 (Su-17M) *Fitter C*; 15 MiG-23U  
*Flogger*

**Recce** 2 sqn with 7 MiG-25R *Foxbat*; 4 *Mirage* 5DP30

**Tpt** 7 sqn with 2 An-124 *Condor*; 23 An-26 *Curl*; 7 C-  
 130H *Hercules*; 6 G-222; 25 Il-76 *Candid*; 2 L-100-  
 20; 3 L-100-30; 15 L-410 *Turbolet*

**Atk hel** some sqn with 29 Mi-25 *Hind D*; 31 Mi-35 *Hind*

**Tpt hel** some sqn with 4 CH-47C *Chinook* (hy); 34 Mi-17  
 (Mi-8MT) *Hip H*/Mi-8 *Hip* (med); 5 AB-206 (Bell  
 206) *JetRanger* (lt); 11 SA-316 *Alouette III* (lt)

**Trg** some sqn with 1 Tu-22 *Blinder*; 90 G-2 *Galeb*; 115  
 L-39ZO *Albatros*; 20 SF-260WL *Warrior*; 50 PZL  
 Mi-2 *Hoplite*

#### EQUIPMENT BY TYPE

(many non-operational, many ac in store)

##### AIRCRAFT 374 combat capable

**BBR** 7: 7 Tu-22 *Blinder*

**FTR** 229

**F-1** 15: 15 *Mirage* F-1ED (F-1E)

**MiG-25** *Foxbat* 94

**MiG-23** *Flogger* 75

**MiG-21** *Fishbed* 45

**FGA** 113

**Su-24** 6: 6 Su-24MK *Fencer D*

*Mirage* **F-1AD (F-1A)** 14

**MiG-23B** 40: 40 MiG-23BN *Flogger H*  
**Su-17** • **Su-20 (Su-17M)** 53: 53 Su-17M-2 *Fitter D/Su-20*  
 (Su-17M) *Fitter C* Su-17 FGA  
**RECCE** 7: 7 MiG-25R *Foxbat*  
**TPT** 83: 2 An-124 *Condor*; 23 An-26 *Curl*  
**C-130** 7: 7 C-130H *Hercules*  
**G-222** 6 **Il-76** *Candid* 25  
**L-100** 5: 2 L-100-20; 3 L-100-30  
**L-410** *Turbolet* 15  
**TRG** 250: 90 G-2 *Galeb*  
**L-39** 115: 115 L-39ZO *Albatros*  
**MiG-23U** *Flogger\** 15  
**MiG-25U** *Foxbat\** 3  
**MIRAGE** 5D 4: 4 *Mirage* 5DP30\*  
*Mirage F-1BD (F-1B)\** 3  
**SF-260** • **SF-260W** 20: 20 SF-260WL *Warrior*

#### HELICOPTERS

**ATK** 60: 29 Mi-25 *Hind D*; 31 Mi-35 *Hind*  
**SPT** 88  
**CH-47** 4: 4 CH-47C *Chinook* (hy)  
**Mi-8** 34: 34 Mi-17 (Mi-8MT) *Hip H/Mi-8 Hip* spt hel (med)  
**PZL Mi-2** *Hoplite* 50  
**UTL** 16: 5 AB-206 (Bell 206) *JetRanger* (lt); 11 SA-316  
*Alouette III* (lt)  
**MSL** • **TACTICAL** • **ASM**: some AS-11 *Kilter*; some AS-7  
*Kerry*; some AS-9 *Kyle*; some AT-2 *Swatter*  
**AAAM**: some AA-2 *Atoll*; AA-6 *Acrid*; AA-7 *Apex*; AA-8  
*Aphid*; R-550 *Magic*; R530

#### Air Defence Command

Senezh AD comd and control system

#### FORCES BY ROLE

AD 5 region (*each*: 3 AD bde each with 20–24 SA-6  
*Gainful*/SA-8 *Gecko* (72–144 eff.), 2–3 AD bde each  
 with 12 SA-3 *Goa*, 5–6 AD bde each with 18 SA-2  
*Guideline*); 4 bde with SA-5A *Gammon* (*each*: 1 radar  
 coy, 2 AD bn each with 6 launcher, 4+ ADA bn with  
 guns)

#### EQUIPMENT BY TYPE

##### AD

**SAM** 216+: 36 SA-3 *Goa*  
**SP** 72: 20–72 SA-6 *Gainful*/SA-8 *Gecko* (216–432 eff.)  
**TOWED** 108: 108 SA-2 *Guideline*  
**STATIC** • **SA-5**: some SA-5A *Gammon*  
**GUNS** some **Launcher** 12

#### NON-STATE ARMED GROUPS

see Part II

#### DEPLOYMENT

##### SUDAN

**AU** • **AUMIS** 9 obs

### Mauritania RIM

| Mauritanian Ouguiya OM |      | 2004   | 2005   | 2006 |
|------------------------|------|--------|--------|------|
| <b>GDP</b>             | OM   | 414bn  | 493bn  |      |
|                        | US\$ | 1.6bn  | 1.8bn  |      |
| <b>per capita</b>      | US\$ | 517    | 596    |      |
| <b>Growth</b>          | %    | 5.2    | 5.5    |      |
| <b>Inflation</b>       | %    | 10.4   | 13.0   |      |
| <b>Debt</b>            | US\$ |        |        |      |
| <b>Def bdtgt</b>       | OM   | £5.2bn | £5.4bn |      |
|                        | US\$ | £19.4m | £20.1m |      |
| <b>US\$1=OM</b>        |      | 267    | 268    | 271  |

**Population** 3,086,859

| Age           | 0–14 | 15–19 | 20–24 | 25–29 | 30–64 | 65 plus |
|---------------|------|-------|-------|-------|-------|---------|
| <b>Male</b>   | 23%  | 5%    | 4%    | 4%    | 12%   | 1%      |
| <b>Female</b> | 23%  | 5%    | 4%    | 4%    | 13%   | 1%      |

### Capabilities

**ACTIVE 15,870** (Army 15,000 Navy 620 Air 250)

**Paramilitary 5,000**

*Terms of service* conscription 24 months authorised

#### ORGANISATIONS BY SERVICE

##### Army 15,000

##### FORCES BY ROLE

6 Mil Regions

**Army** 2 (camel corps) bn  
**Armd** 1 bn (T-54/55 MBTs)  
**Armd recce** 1 sqn  
**Inf** 8 (garrison) bn  
**Mot inf** 7 bn  
**Cdo/para** 1 bn  
**Arty** 3 bn  
**ADA** 4 bty  
**Engr** 1 coy  
**Gd** 1 bn

##### EQUIPMENT BY TYPE

**TK** • **MBT** 35: 35 T-54/T-55

**RECCE** 70

**AML** 60: 20 AML-60; 40 AML-90

*Saladin* 10

**APC** • **APC (W)** 25: 5 FV603 *Saracen*; 20 M-3 *Panhard*

**ARTY** 194

**TOWED** 80

**105mm** 36: 36 HM-2/M-101A1

**122mm** 44: 20 D-30; 24 D-74

**MOR** 114: 24 60mm; 60 81mm

**120mm** 30: 30 Brandt

**AT**

**MSL** 24: 24 *Milan*

**RCL** 114

**106mm** • **M-40** 90: 20 M-40A1

75mm 24: €24 M-20

RL • 73mm 48: €48 RPG-7 *Knout*

#### AD

SAM 104

SP 4: €4 SA-9 *Gaskin* (reported)

MANPAD 100: €100 SA-7 *Grail*

GUNS 82

14.5mm • TOWED • ZPU 28: 16 ZPU-2; 12 ZPU-4

23mm • TOWED 20: 20 ZU-23-2

37mm • TOWED 10: 10 M-1939

57mm • TOWED 12: 12 S-60

100mm • TOWED 12: 12 KS-19

### Navy €620

#### EQUIPMENT BY TYPE

##### PATROL AND COASTAL COMBATANTS 10

PCC 1: 1 *El Nasr* (Fr *Patra*)

PCI 4: 4 *Mandovi* less than 100 tonnes

PCR 1: 1 *Huangpu*

PCO 4: 1 *Abourbekr Ben Amer* (Fr OPV 54); 1 *Arguin*; 1

Large Patrol Craft *Voum-Legleita*; 1 *N'Madi* (UK *Jura*, fishery protection)

#### FACILITIES

Bases Located at Nouadhibou, Nouakchott

### Air Force 250

#### FORCES BY ROLE

MR some sqn with 2 Cessna 337 *Skymaster*

Tpt some sqn with 2 PA-31T *Navajo/Cheyenne II*; 2 Y-12(II)

COIN some sqn with 2 FTB-337 *Milirole*; 5 BN-2 *Defender*; 1 Basler Turbo-67

#### EQUIPMENT BY TYPE

##### AIRCRAFT

RECCE 2: 2 FTB-337 *Milirole*

TPT 12: 5 BN-2 *Defender*; 1 Basler Turbo-67; 2 Cessna 337 *Skymaster*

PA-31 2: 2 PA-31T *Navajo/Cheyenne II*

Y-12 2: 2 Y-12(II)

TRG • SF-260 4: 4 SF-260E

### Paramilitary €5,000 active

#### Gendarmerie €3,000

Ministry of Interior

Regional 6 coy

#### National Guard 2,000

Ministry of Interior

Aux 1,000

#### Customs

PATROL AND COASTAL COMBATANTS • PB 1: 1 *Dah Ould Bah* (Fr *Amgram* 14)

### DEPLOYMENT

#### SUDAN

AU • AUMIS 10 obs

## Morocco Mor

| Moroccan Dirham |      | 2004   | 2005   | 2006  |
|-----------------|------|--------|--------|-------|
| D               |      |        |        |       |
| GDP             | D    | 443bn  | 489bn  |       |
|                 | US\$ | 50.0bn | 55.6bn |       |
| per capita      | US\$ | 1,552  | 1,700  |       |
| Growth          | %    | 3.5    | 1.8    |       |
| Inflation       | %    | 2.0    | 1.0    |       |
| Debt            | US\$ |        |        |       |
| Def bdgt        | D    | 17.6bn | 18.1bn |       |
|                 | US\$ | 1.99bn | 2.07bn |       |
| FMA (US)        | US\$ | 9.9m   | 15.1m  | 12.4m |
| US\$1=D         |      | 8.86   | 8.79   | 9.14  |

Population 32,725,847

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 16%  | 5%    | 5%    | 4%    | 16%   | 2%      |
| Female | 16%  | 5%    | 5%    | 4%    | 17%   | 3%      |

## Capabilities

**ACTIVE 200,800** (Army 180,000 Navy 7,800 Air 13,000) Paramilitary 50,000

*Terms of service* conscription 18 months authorised; most enlisted personnel are volunteers

**RESERVE 150,000** (Army 150,000)

*Terms of service* obligation to age 50

### ORGANISATIONS BY SERVICE

**Army** €80,000; 100,000 conscript; 150,000 reservists (obligation to age 50) (total 330,000)

#### FORCES BY ROLE

2 Comd (Northern Zone, Southern Zone)

Sy 1 light bde

Armd 12 indep bn

Mech/mot inf 8 regt

Mech inf 3 bde

Inf 38 indep bn

Mot inf 3 (camel corps) bn

Mtn inf 1 (indep) bn

Cdo 4 indep unit

Para 2 bde; 2 (indep) bn

Arty 11 indep bn

Engr 7 indep bn

AD 1 indep bn

#### Royal Guard 1,500

Army 1 bn

Cav 1 sqn

#### EQUIPMENT BY TYPE

TK 656

MBT 540

M-60 340: 220 M-60A1; 120 M-60A3

M-48 200: €200 M-48A5 in store

LT TK 116: 5 AMX-13; 111 SK-105 *Kuerassier*  
**RECCE** 384  
 AML 228: 38 AML-60-7; 190 AML-90  
**AMX-10RC** 80  
**EBR-75** 16 *Eland* 40  
**M1114 HMMWV** 20  
**AIFV** 70: 10 AMX-10P  
**FSV** 90 60  
**MK III-20** 30: 30 Ratel-20  
**MK III-90** 30: 30 Ratel-90  
**APC** 765  
**APC (T) • M-113** 400: 400 M-113A1  
**APC (W) • VAB** 365: 45 VAB VCI; 320 VAB VTT  
**ARTY** 2,892  
**TOWED** 118  
**105mm** 50: 30 L-118 Light Gun; 20 M-101  
**130mm** 18: 18 M-46  
**155mm** 50: 30 FH-70; 20 M-114  
**SP** 199: 5 105mm  
**155mm** 134  
**M-109 • M-109A1** 44: 44 M-109A1B  
**Mk F3** 90  
**203mm** 60: 60 M-110  
**MRL • 122mm** 35: 35 BM-21  
**MOR** 2,540:  
**81mm** 1,970: 870; 1,100 Expal model LN  
**120mm** 570: 20 (Mounted on a VAB APC) **Brandt** 550  
**AT**  
**MSL** 790: 40 AT-3 *Sagger*; 440 M47 *Dragon*; 80 *Milan*  
**TOW** 230: 150; 80 M-901  
**RCL • 106mm • M-40** 350: 350 M-40A1  
**RL** 700  
**66mm** 500: 500 M-72 *LAW*  
**89mm** 200: 200 M-20  
**GUNS** 36  
**100mm** 8: 8 SU-100 SP  
**90mm** 28: 28 M-56  
**UAV:** some R4E-50 *Skyeye*  
**AD**  
**SAM** 107  
**SP** 37: 37 M-48 *Chaparral*  
**MANPAD** 70: 70 SA-7 *Grail*  
**GUNS** 457  
**14.5mm • TOWED • ZPU** 200: 180 ZPU-2; 20 ZPU-4  
**20mm** 100  
**SP** 60: 60 M-163 *Vulcan*  
**TOWED** 40: 40 M-167 *Vulcan*  
**23mm • TOWED** 140: 140 ZU-23-2  
**100mm • TOWED** 17: 17 KS-19  
**RADAR • LAND:** some RASIT (veh, arty)

## **Navy 7,800 (incl 1,500 Marines)**

### **EQUIPMENT BY TYPE**

#### **PRINCIPAL SURFACE COMBATANTS • FRIGATES • FFG 3:**

1 *Lt Col Errhamani* (Sp *Descubierta*) with 2 triple ASTT (6 eff.) each with Mk 46 LWT, 1 *Albatros* octuple with 24 *Aspide* SAM, 2 twin (4 eff.) each with 1 MM-38 *Exocet* tactical SSM V (capacity 1 AS-565 aslt hel) (Fr mod *Floreal*) each with 2 single each with 1 MM-38 *Exocet* tactical SSM, 1 76mm gun 2 *Mohammed V* (Fr *Floreal*) (capacity 1 AS-565A *Panther*) each eq with 2 single each eq with MM-38 *Exocet* SSM, 1x 76mm

## **PATROL AND COASTAL COMBATANTS 27**

### **PCC 17:**

4 *El Hahiq* (Dk *Osprey* 55, incl 2 with customs)  
 6 *LV Rabhi* (Sp 58m B-200D)  
 2 *Okba* (Fr PR-72) each with 1 76mm gun  
 5 *Rais Bargach* (under control of fisheries dept)

**PFI** 6: 6 *El Wacil* (Fr P-32, under 100 tonnes, incl 4 with customs)

### **PFM 4:**

4 *Cdt El Khattabi* (Sp *Lazaga* 58m) each with 4 single each with 1 MM-40 *Exocet* tactical SSM, 1 76mm gun

## **AMPHIBIOUS**

### **LS 4**

**LSM** 3: 3 *Ben Aicha* (capacity 7 tanks; 140 troops) (Fr *Champlain* BATRAL)

**LST** 1: 1 *Sidi Mohammed Ben Abdallah* (capacity 400 troops) (US *Newport*)

### **CRAFT • LCT 1:**

1 *Edic* (capacity 96 troops; 8 APCs)

**LOGISTICS AND SUPPORT** 4: 1 AGOR (US lease); 2 spt (log); 1 tpt

## **FACILITIES**

Bases Located at Casablanca, Agadir, Al Hoceima, Dakhla, Tangier

## **Marines 1,500**

Naval inf 2 bn

## **Naval Aviation**

**HELICOPTERS • ASLT** 3: 3 AS-565

## **Air Force 13,000**

Flying hours 100 hrs/year on F-1 *Mirage*/F-5A *Freedom*  
*Fighter Tiger*

### **FORCES BY ROLE**

**Ftr** 1 sqn with 19 F-1CH (F-1C) *Mirage*  
**FGA** 1 sqn with 8 F-5A *Freedom Fighter*; 2 F-5B *Freedom Fighter*; 2 sqn with 20 F-5E *Tiger II*; 3 F-5F *Tiger II*; 2 sqn with 14 *Mirage* F-1EH (F-1E)  
**Recce** some sqn with 4 OV-10 *Bronco*\*; 2 C-130H *Hercules* (with side-looking radar)  
**EW** some sqn with 2 C-130 *Hercules* (ELINT); 2 *Falcon* 20 (ELINT)  
**Tpt** some sqn with 4 Beech 100 *King Air*; 3 Beech 200 *Super King Air*; 15 C-130H *Hercules*; 6 CN-235; 2 Do-28; 2 *Falcon* 20; 1 *Falcon* 50 (VIP); 2 Gulfstream II (VIP); some sqn  
**Tkr** some sqn with 2 KC-130H *Hercules* (tpt/tkr); 1 B-707  
**Liaison** some sqn with 2 Beech 200 *Super King Air*  
**Atk hel** some sqn with 19 SA-342 *Gazelle* (with HOT, 12 with cannon)  
**Tpt hel** some sqn with 8 CH-47D *Chinook* (hy); 24 SA-330 *Puma* (med); 25 AB-205A (Bell 205A); 11 AB-206 (Bell 206) *JetRanger* (lt); 3 AB-212 (Bell 212) (lt); 2 UH-60 *Black Hawk*  
**Trg** some sqn with 7 AS-202 *Bravo*; 19 *Alpha Jet*\*; 2 CAP 10; 9 T-34C *Turbo Mentor*; 14 T-37B *Tweet* (being replaced by K-8); 4 CAP-231



## EQUIPMENT BY TYPE

**AIRCRAFT** 89 combat capable

**FTR** 66

F-5 33: 8 F-5A *Freedom Fighter*; 2 F-5B *Freedom Fighter*; 20 F-5E *Tiger II*; 3 F-5F *Tiger II*

F-1 33: 19 F-1CH (F-1C) *Mirage*; 14 *Mirage* F-1EH (F-1E)

**FAC** 4: 4 OV-10 *Bronco*\*

**TKR • KC-130** 2: 2 KC-130H *Hercules* (tpt/tkr)

**TPT** 44: 1 B-707; 4 Beech 100 *King Air*; 5 Beech 200 *Super King Air*

**C-130** 19: 2 (ELINT); 15 C-130H *Hercules*; 2 (with side-looking radar)

**CN-235** 6 **Do-28** 2 *Falcon* 20 2; 2 (ELINT) *Falcon* 50 1 (VIP) *Gulfstream II* 2 (VIP)

**TRG** 51: 7 AS-202 *Bravo*; 19 *Alpha Jet*\*; 2 CAP 10

**T-34** 9: 9 T-34C *Turbo Mentor*

**T-37** 14: 14 T-37B *Tweet* (being replaced by K-8)

**TRIALS AND TEST** 4: 4 CAP-231

## HELICOPTERS

**ASLT** 19: 19 SA-342 *Gazelle* (with HOT, 12 with cannon)

**SPT** 32

**CH-47** 8: 8 CH-47D *Chinook* (hy)

**SA-330** *Puma* 24 (med)

**UTL** 41: 11 AB-206 (Bell 206) *JetRanger* (lt); 3 AB-212 (Bell 212) (lt)

**BELL** 205 25: 25 AB-205A (Bell 205A)

**UH-60** *Black Hawk* 2

**MSL • TACTICAL • ASM • AGM-62**: some AGM-62B *Walleye* (For F-5E)

**HOT** some

**AAM • AIM-9**: some AIM-9B *Sidewinder*/AIM-9D *Sidewinder*/AIM-9J *Sidewinder*

**R-550** *Magic* some **R530** some

**Paramilitary** 50,000 active

**Gendarmerie Royale** 20,000

## FORCES BY ROLE

**Coast Guard** 1 unit

**Para** 1 sqn

**Paramilitary** 1 bde; 4 (mobile) gp

**Avn** 1 (air) sqn

## EQUIPMENT BY TYPE

**PATROL AND COASTAL COMBATANTS • MISC**

**BOATS/CRAFT** 18: 18 boats

**AIRCRAFT • TRG** 2: 2 *Rallye* 235 *Guerrier*

## HELICOPTERS

**SAR** 2: 2 SA-360 *Dauphin*

**ASLT • SA-342** 6: 6 SA-342K *Gazelle*

**SPT** 6: 6 SA-330 *Puma*

**UTL** 8

**SA-315** 3: 3 SA-315B *Lama*

**SA-316** *Alouette III* 3 **SA-318** *Alouette II* 2

**Force Auxiliaire** 30,000 (incl 5,000 Mobile Intervention Corps)

## Customs/Coast Guard

**PATROL AND COASTAL COMBATANTS** €33

**MISC BOATS/CRAFT** 4: 4 SAR craft

**PCI** 4: 4 *Erraid*

**PBF** 15

**PB** 18

## NON-STATE ARMED GROUPS

see Part II

## DEPLOYMENT

### BOSNIA-HERZEGOVINA

**EU • EUFOR II** 1 mot inf bn; 132 (*Op Althea*)

### CÔTE D'IVOIRE

**UN • ONUCI** 732; 1 obs

### DEMOCRATIC REPUBLIC OF CONGO

**UN • MONUC** 801; 4 obs

### HAITI

**UN • MINUSTAH** 168

### SERBIA AND MONTENEGRO

**NATO • KFOR I** 279

## Oman

| Omani Rial R      |      | 2004   | 2005   | 2006  |
|-------------------|------|--------|--------|-------|
| <b>GDP</b>        | R    | 9.5bn  | 11.9bn |       |
|                   | US\$ | 25.0bn | 31.3bn |       |
| <i>per capita</i> | US\$ | 8,611  | 10,433 |       |
| <b>Growth</b>     | %    | 2.5    | 1.9    |       |
| <b>Inflation</b>  | %    | 1.6    | 1.1    |       |
| <b>Debt</b>       | US\$ |        |        |       |
| <b>Def bdgt</b>   | R    | 973m   | 1.14bn |       |
|                   | US\$ | 2.56bn | 3.02bn |       |
| <b>FMA (US)</b>   | US\$ | 24.8m  | 19.8m  | 13.8m |
| <b>US\$1=R</b>    |      | 0.38   | 0.38   | 0.38  |

**Population** 3,001,583

**Expatriates:** 27%

| Age           | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|---------------|------|-------|-------|-------|-------|---------|
| <b>Male</b>   | 22%  | 5%    | 4%    | 4%    | 20%   | 1%      |
| <b>Female</b> | 21%  | 4%    | 4%    | 3%    | 10%   | 1%      |

## Capabilities

**ACTIVE 41,700** (Army 25,000 Navy 4,200 Air 4,100 Foreign Forces 2,000 Royal Household 6,400)  
**Paramilitary 4,400**

## ORGANISATIONS BY SERVICE

### Army 25,000

#### FORCES BY ROLE

(Regt are bn size)

**Armd** 1 bde HQ; 2 regt (*each*: 3 tk sqn)

**Armd recce** 1 regt (3 armd recce sqn)

**Recce** 2 indep coy

**Inf** 2 bde HQ; 8 regt

**Rifle** 1 indep coy (Musandam Security Force)

**AB** 1 regt

Inf recce 1 regt (3 recce coy)  
 Med arty 1 regt (2 Med arty bty)  
 Fd arty 2 regt  
 ADA 1 regt (2 ADA bty)  
 Fd Engr 1 regt (3 fd engr sqn)

#### EQUIPMENT BY TYPE

##### TK 154

MBT 117: 38 CR2 *Challenger 2*  
 M-60 79: 6 M-60A1; 73 M-60A3  
 LT TK 37: 37 *Scorpion*

RECCE 145: 13 *Sultan*; 132 VBL

##### APC 191

APC (T) 16: 6 FV 103 *Spartan*; 10 FV4333 *Stormer*  
 APC (W) 175: 175 *Piranha* (incl variants)

##### ARTY 233

##### TOWED 108

105mm 42: 42 ROF lt  
 122mm 30: 30 D-30  
 130mm 24: 12 M-46; 12 Type-59-I  
 155mm 12: 12 FH-70  
 SP • 155mm 24: 24 G-6

##### MOR 101: 69 81mm

107mm 20: 20 M-30  
 120mm 12: 12 Brandt

AT • MSL 50: 32 *Milan*

TOW 18: 18 TOW msl/TOW-2A (some SP)

RL • 73mm: some RPG-7 *Knout*  
 94mm: some LAW-80

##### AD

SAM • MANPAD 54+: 20 *Javelin*; some *Mistral 2* (SP);  
 34 SA-7 *Grail*

##### GUNS 26

23mm • TOWED 4: 4 ZU-23-2  
 35mm • TOWED • GDF 10: 10 GDF-005 (with  
*Skyguard*)  
 40mm • TOWED 12: 12 L/60

#### Navy 4,200

##### EQUIPMENT BY TYPE

PRINCIPAL SURFACE COMBATANTS • CORVETTES  
 • FSG 2: 2 *Qahir Al Amwaj* each with 1 octuple (8 eff.) with  
 16 *Crotale* SAM, 2 quad (8 eff.) each with 1 MM-40 *Exocet*  
 tactical SSM, 2 triple 324mm TT (6 eff.) non-operational  
 each with 1 MM-40 *Exocet* tactical SSM, 1 76mm gun, 1 hel  
 landing platform (for *Super Lynx* type)

##### PATROL AND COASTAL COMBATANTS 11

PCC 3: 3 *Al Bushra* (Fr P-400) each with 4 single 406mm  
 TT, 1 76mm gun  
 PCI 4: 4 *Seeb* (Vosper 25m, under 100 tonnes)  
 PFM 4: 4 *Dhofar* with 2 triple (6 eff.) (not fitted); 3 *Dhofar*  
 + SSM each with 1 MM-40 *Exocet* SSM tactical, 2 quad  
 (8 eff.)

##### AMPHIBIOUS

LS • LST 1: 1 *Nasr el Bahr* (capacity 7 tanks; 240 troops)  
 (with hel deck)  
 CRAFT 4: 1 LCU; 3 LCM

##### LOGISTICS AND SUPPORT 4: 1 AGHS

AK 1: 1 *Al Sultana*

TRG 1: 1 *Al Mabrukah* (with hel deck, also used in  
 offshore patrol role)  
 supply 1

#### FACILITIES

Bases Located at Muaskar al Murtafaia (Seeb), Alwi,  
 Mainbase HQ located at Widam A'Sahil, Ghanam  
 Island, Musandam, Salalah

#### Air Force 4,100

##### FORCES BY ROLE

FGA 1 sqn being formed with 12 F-16C *Fighting Falcon*/F-16D *Fighting Falcon*; 2 sqn with 20  
*Jaguar* OS/4 *Jaguar* OB  
 Ftr/FGA 1 sqn with 4 *Hawk* Mk103/12 *Hawk* Mk203  
 Tpt 1 sqn with 3 C-130H *Hercules*; 1 sqn with 10  
 SC.7 3M *Skyvan* (7 radar-equipped, for MR);  
 1 sqn with 3 BAC-111  
 Tpt hel 2 (med) sqn with 19 AB-205 (Bell 205)  
*JetRanger*; 3 AB-212 (Bell 212); 16 *Lynx* Mk  
 300 *Super Lynx* (maritime/SAR)  
 Trg 1 sqn with 4 AS-202-18 *Bravo*; 8 MFI-17B  
*Mushshak*; 12 PC-9; 2 SF-25 *Falke*; hel 3 AB-206  
 AD 2 sqn with 40 *Rapier*; 6 *Blindfire*; S713 *Martello*

##### EQUIPMENT BY TYPE

AIRCRAFT 52 combat capable

Ftr/FGA 52: 12 F-16C *Fighting Falcon*/F-16D *Fighting Falcon*;  
 24 *Jaguar* (20 OS (single seat), 4 OB (dual seat)); 4  
*Hawk* Mk103; 12 *Hawk* Mk203

TPT 16: 3 BAC-111

C-130 3: 3 C-130H *Hercules*

SC.7 3M *Skyvan* 10 (7 radar-equipped, for MR)

TRG 26

AS-202 4: 4 AS-202-18 *Bravo*

MFI-17 8: 8 MFI-17B *Mushshak*

PC-9 12\*

SF-25 2

HELICOPTERS • UTL 41: 19 AB-205 (Bell 205); 3 AB-206  
 (Bell 206) *JetRanger* (basic rig); 3 AB-212 (Bell 212); 16 *Lynx*  
 Mk 300 *Super Lynx* (maritime/SAR)

AD • SAM 40: 40 *Rapier*

RADAR • LAND 6+: 6 *Blindfire*; some S713 *Martello*

MSL • TACTICAL • AAM • AIM-9: some AIM-9LM  
*Sidewinder*

#### Royal Household 6,400

(incl HQ staff)

SF 2 regt (1,000 men)

#### Royal Guard bde 5,000

TK • LT TK 9: 9 VBC-90

APC • APC (W) 73: 50 Type-92

VAB 23: 14 VAB VCI; 9 VAB VDAA

ARTY • MRL • 122mm 6: 6 Type-90A

AT • MSL: some *Milan*

AD • SAM • MANPAD 14: 14 *Javelin*

#### Royal Yacht Squadron 150

PATROL AND COASTAL COMBATANTS • MISC

BOATS/CRAFT • DHOW 1: 1 *Zinat Al Bihaar*

LOGISTICS AND SUPPORT 2: 1 Royal Yacht (3,800t  
 with hel deck)

TPT 1: 1 *Fulk Al Salamah* (also veh tpt) with up to 2 AS-  
 332C *Super Puma* spt hel

**Royal Flight 250**

AIRCRAFT • TPT 5

B-747 2: 2 B-747SP

DC-8 1: 1 DC-8-73CF

Gulfstream IV 2

HELICOPTERS • SPT 6: 3 AS-330 (SA-330) *Puma*AS-332 3: 2 AS-332F *Super Puma*; 1 AS-332L *Super Puma***Paramilitary 4,400 active****Tribal Home Guard 4,000**

org in teams of est 100

**Police Coast Guard 400**

PATROL AND COASTAL COMBATANTS 17

MISC BOATS/CRAFT 14: 14 craft

PCI 3: 3 CG 29 less than 100 tonnes

**Police Air Wing**

AIRCRAFT • TPT 4

BN-2 ISLANDER 1: 1 BN-2T Turbine *Islander*

CN-235 2: 2 CN-235M

Do-228 1

HELICOPTERS • UTL 5

AB-205 (BELL 205) 2: 2 Bell 205A

BELL 214 3: 3 AB-214ST

**FOREIGN FORCES**United Kingdom Air Force: 99; 33; *Nimrod* MR2 at Seeb

United States USCENTCOM: 60; 210

**Palestinian Autonomous Areas of Gaza and Jericho PA**

| New Israeli Shekel |      | 2004  | 2005 | 2006 |
|--------------------|------|-------|------|------|
| NS                 |      |       |      |      |
| GDP                | US\$ | 3.6bn |      |      |
| per capita         | US\$ | 1,025 |      |      |
| Growth             | %    | 4.5   |      |      |
| Inflation          | %    | 4.4   |      |      |
| US\$1=NS           |      | 4.55  | 4.47 | 4.71 |

Population 3,761,000

**Capabilities****ACTIVE 0 Paramilitary 56,000**

Personnel strength figures for the various Palestinian groups are not known

**ORGANISATIONS BY SERVICE****Paramilitary**

National Forces ε56,000 (reported)

**GENERAL SECURITY**

Police

Preventative Security

ARMY

NAVY

AIR FORCE

**NON-STATE ARMED GROUPS**

see Part II

**FOREIGN FORCES**

Italy 15

**Qatar Q**

| Qatari Riyal R |      | 2004    | 2005    | 2006 |
|----------------|------|---------|---------|------|
| GDP            | R    | 103bn   | 129bn   |      |
|                | US\$ | 28.3bn  | 35.4bn  |      |
| per capita     | US\$ | 33,675  | 41,063  |      |
| Growth         | %    | 9.9     | 6.7     |      |
| Inflation      | %    | 7.5     | 7.8     |      |
| Debt           | US\$ |         |         |      |
| Def bdgt       | R    | ε7.5bn  | ε8.0bn  |      |
|                | US\$ | ε2.06bn | ε2.19bn |      |
| US\$1=R        |      | 3.64    | 3.64    | 3.64 |

Population 863,051

Ethnic groups: Nationals 25%; Expatriates 75% of which Indian 18%; Iranian 10%; Pakistani 18%

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 12%  | 4%    | 4%    | 5%    | 37%   | 3%      |
| Female | 12%  | 4%    | 3%    | 3%    | 12%   | 1%      |

**Capabilities****ACTIVE 12,400** (Army 8,500 Navy 1,800 Air 2,100)**ORGANISATIONS BY SERVICE****Army 8,500****FORCES BY ROLE**

Tk 1 bn  
 Mech inf 4 bn  
 SF 1 bn (coy)  
 Fd arty 1 regt  
 Mor 1 bn  
 AT 1 bn  
 Royal Guard 1 regt

**EQUIPMENT BY TYPE**

TK • MBT 30: 30 AMX-30

RECCE 68: 12 AMX-10RC; 20 EE-9 *Cascavel*; 12 *Ferret*; 8 V-150 *Chaimite*; 16 VBL

AIFV 40: 40 AMX-10P

APC 226

APC (T) 30: 30 AMX-VCI

APC (W) 196: 36 *Piranha* II; 160 VAB

ARTY 89

**TOWED • 155mm** 12: 12 G-5  
**SP • 155mm** 28: 28 Mk F3  
**MRL** 4: 4 ASTROS II  
**MOR** 45

**81mm** 30: 30 L16 (some SP)  
**120mm** 15: 15 Brandt

**AT**

**MSL** 148: 48 HOT (incl 24 VAB SP); 100 *Milan*  
**RCL • 84mm** 40: €40 *Carl Gustav*

**Navy** 1,800 (incl Marine Police)

**FORCES BY ROLE**

Navy 1 HQ located at Doha

**EQUIPMENT BY TYPE**

**PATROL AND COASTAL COMBATANTS** €21

**PFM** 7:

4 *Barzan* (UK *Vita*) each with 2 quad (8 eff.) each with  
1 MM-40 *Exocet* tactical SSM, 1 sextuple (6 eff.) with  
*Mistral* SAM, 1 76mm gun

3 *Damsah* (Fr *Combattante* III) each with 2 quad (8 eff.)

**PB** 14 (11 operated by Marine Police)

**FACILITIES**

Bases Located at Doha, Halul Island

**Coastal Defence**

**FORCES BY ROLE**

Navy 1 bty with 3 quad (12 eff.) each with MM-40  
*Exocet* tactical SSM

**EQUIPMENT BY TYPE**

**LNCHR** 3: 3 quad each with MM-40 *Exocet* tactical SSM

**Air Force** 2,100

**FORCES BY ROLE**

**Ftr/FGA** 1 sqn with 6 *Alpha Jet*; 1 sqn with 3 M-2000D  
*Mirage*; 9 M-2000ED *Mirage*

**Tpt** 1 sqn with 1 A-340; 2 B-707; 1 B-727; 2 *Falcon* 900

**Atk hel** 1 sqn with 8 *Commando* MK 3 (*Exocet*);  
11 SA-342L *Gazelle* (with HOT)

**Tpt hel** some sqn with 3 *Commando* MK 2A;  
1 *Commando* MK 2C; 2 SA-341 *Gazelle*

**EQUIPMENT BY TYPE**

**AIRCRAFT** 18 combat capable

**FGA • M-2000** 12: 3 M-2000D *Mirage*; 9 M-2000ED  
*Mirage*

**TPT** 6: 1 A-340; 2 B-707; 1 B-727; 2 *Falcon* 900

**TRG** 6: 6 *Alpha Jet*\*

**HELICOPTERS**

**ASUW** 8: 8 *Commando* MK 3 (*Exocet*)

**ATK • SA-342** 11: 11 SA-342L *Gazelle*\* (with HOT)

**SPT** 6

**COMMANDO** 4: 3 *Commando* MK 2A; 1 *Commando*  
MK 2C

**SA-341** *Gazelle* 2

**AD • SAM** 75: 24 *Mistral*

**SP • ROLAND** 9: 9 *Roland* II

**MANPAD** 42: 10 *Blowpipe*; 12 FIM-92A *Stinger*; 20 SA-7  
*Grail*

**MSL • TACTICAL • ASM:** some AM-39 *Exocet*; some  
*Apache*; some HOT

**AAM:** some MICA; some R-550 *Magic*

**FOREIGN FORCES**

**United Kingdom:** 6 *Tornado* GR4 at Al Udeid

**United States** USCENTCOM: 800; 230; 5,350; 160

**Saudi Arabia** Sau

| Saudi Riyal R |      | 2004   | 2005    | 2006 |
|---------------|------|--------|---------|------|
| GDP           | R    | 939bn  | 1,130bn |      |
|               | US\$ | 250bn  | 301bn   |      |
| per capita    | US\$ | 9,707  | 11,407  |      |
| Growth        | %    | 5.3    | 6.2     |      |
| Inflation     | %    | 0.2    | 0.6     |      |
| Debt          | US\$ |        |         |      |
| Def bdgt*     | R    | 78.4bn | 95.1bn  |      |
|               | US\$ | 20.9bn | 25.4bn  |      |
| US\$1=R       |      | 3.75   | 3.75    | 3.75 |

\* Defence and security budget

**Population** 26,417,599

**Ethnic groups:** Nationals 73% of which Bedouin up to 10%, Shi'a 6%, Expatriates 27% of which Asians 20%, Arabs 6%, Africans 1%, Europeans <1%

| Age    | 0–14 | 15–19 | 20–24 | 25–29 | 30–64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 19%  | 5%    | 6%    | 6%    | 17%   | 1%      |
| Female | 19%  | 5%    | 4%    | 4%    | 12%   | 1%      |

**Capabilities**

**ACTIVE 199,500** (Army 75,000 Navy 15,500 Air  
18,000 Air Defence 16,000 National Guard 75,000)  
Paramilitary 15,500

**ORGANISATIONS BY SERVICE**

**Army** 75,000

**FORCES BY ROLE**

**Arm'd** 3 bde (*each*: 1 mech bn, 1 fd arty bn, 1 recce  
bn, 1 AD bn, 1 AT bn, 3 tk bn)

**Mech** 5 bde (*each*: 1 fd arty bn, 1 AD bn, 1 spt bn, 1  
tk bn, 3 mech bn)

**AB** 1 bde (2 AB bn, 3 SF coy)

**Arty** 8 bn

**Avn** 1 comd (2 avn bde)

**Royal Guard** 1 bde (3 Royal Guard bn)

**EQUIPMENT BY TYPE**

**TK • MBT** 1055

**M-1** 315: 115 M1-A2 *Abrams*; 200 in store

**AMX-30** 145; 145 in store

**M-60** 450: 450 M-60A3

**RECCE • AML** 300: 300 AML-60/AML-90

**AIFV** 970+:

570+ AMX-10P  
 400 M-2 *Bradley* each with 2 TOW msl, 1 30mm gun  
**APC 3190**  
**APC (T) • M-113** 3000: 3,000 M-113A1/M-113A2/M-113A3 (incl variants)  
**APC (W)** 190: €40 AF-40-8-1 *Al-Fahd*; 150 M-3 *Panhard*  
**ARTY 868**  
**TOWED 238**  
**105mm** 100: 100 M-101/M-102 in store  
**155mm** 130: 40 FH-70 in store; 50 M-114; 40 M-198 in store  
**203mm** 8: 8 M-115 in store  
**SP • 155mm** 170: 60 AU-F-1  
**M-109** 110: 110 M-109A1B/M-109A2  
**MRL** 60: 60 ASTROS II  
**MOR 400**  
**81mm:** (incl 70 SP)  
**107mm:** M-30 (incl 150 SP)  
**120mm** 110: 110 Brandt  
**AT**  
**MSL** 1,950+: some HOT (incl 100 AMX-10P SP); 1,000 *M47 Dragon*  
**TOW** 950 TOW msl/TOW-2A (incl 200 VCC-1 SP)  
**RCL 450**  
**106mm • M-40** 50: 50 M-40A1  
**84mm** 300: 300 *Carl Gustav*  
**90mm** 100: 100 M-67  
**RL • 112mm** 200: €200 APILAS  
**HELICOPTERS**  
**ATK** 12: 12 AH-64 *Apache*  
**SPT 27**  
**S-70 • S-70A** 12: 12 S-70A-1 *Desert Hawk*  
**SCOUT** 15: 15 Bell 406 CS *Combat Scout*  
**UTL 28**  
**AS-365** 6: 6 AS-365N *Dauphin* 2 (medevac)  
**UH-60** 22: 22 UH-60A *Black Hawk* (4 medevac)  
**AD • SAM** 1,000+  
**SP:** some *Crotale*  
**MANPAD** 1,000: 500 FIM-43 *Redeye*; 500 FIM-92A *Stinger*  
**RADAR • LAND:** some AN/TPQ-36 *Firefinder*/AN/TPQ-37 *Firefinder* (arty, mor)  
**MSL • TACTICAL • SSM** 10+: 10+ CSS-2 (40 msl)

## Navy 15,500

### FORCES BY ROLE

Navy 1 HQ (Eastern Fleet) located at Jubail; 1 HQ (Western Fleet) located at Jeddah; 1 HQ (Naval Forces) located at Riyadh

### EQUIPMENT BY TYPE

#### PRINCIPAL SURFACE COMBATANTS 11

##### FRIGATES • FFG 7:

3 *Al Riyadh* eq with 2 x 8 cell VCS each eq with Aster 15, 8mm 40 Exocet block II, 1 x 76mm gun, 4 x 533mm TT each eq with DCMF 17 HWT (capacity 1 med helicopter) each with 1 hel landing platform (plus hanger for med-sized hel)  
 4 *Madina* French F-2000 (capacity 1 AS-365F *Dauphin* 2 utl hel) each with 4 x 1 533mm ASTT each with F17P HWT, 1 octuple (8 eff.) with 26 *Crotale* SAM, 2 quad (8 eff.) each with 1 Mk 2 Otomat SSM, 1 100mm gun

##### CORVETTES • FSG 4:

4 *Badr* (US *Tacoma*) each with 2 triple ASTT (6 eff.) each with Mk 46 LWT, 2 Mk 140 *Harpoon* quad (8 eff.) each with 1 RGM-84C *Harpoon* tactical SSM, 1 76mm gun

#### PATROL AND COASTAL COMBATANTS 65

##### PBI 39

PCI 17 (US *Halter Marine*, under 100 tonnes)

##### PFM 9:

9 *Al Siddiq* (US 58m) each with 2 Mk 140 twin each with 1 RGM-84C *Harpoon* tactical SSM, 1 76mm gun

#### MINE WARFARE • MINE COUNTERMEASURES 7

MCC 4: 4 *Addriyah* (US MSC-322)

MHO 3: 3 *Al Jawf* (UK *Sandown*)

#### AMPHIBIOUS • CRAFT 8: 4 LCU; 4 LCM

#### LOGISTICS AND SUPPORT 7

##### AO 2:

2 *Boraida* (capacity either 2 AS-365F *Dauphin* 2 utl hel or 1 AS-332C *Super Puma* spt hel) (mod Fr *Durance*)

ARS 1 ATF 3 *Royal Yacht* 1

#### FACILITIES

Bases HQ (Eastern Fleet) located at Jubail, (HQ Eastern Fleet) Jizan, (HQ Western Fleet) Jeddah, (HQ Naval Forces) Riyadh, Dammam, Al Wajh, Ras al Mishab, Ras al Ghar

## Naval Aviation

### HELICOPTERS

ASLT 19: 15 AS-565\* each with AS-15TT tactical ASM; 4 (SAR)

##### SPT 25

AS-332 12: 6 AS-332B *Super Puma*/AS-332F *Super Puma* each with AM-39 *Exocet* tactical ASM; 6 (tpt)\*

SCOUT 13: 13 Bell 406 CS *Combat Scout*

## Marines 3,000

### FORCES BY ROLE

Inf 1 regt (2 Inf bn)

### EQUIPMENT BY TYPE

APC • APC (W) 140: 140 BMR-600P

## Air Force 18,000

### FORCES BY ROLE

Ftr 1 sqn with 22 *Tornado* ADV; 5 sqn with 66 F-15C *Eagle*; 18 F-15D *Eagle*

FGA 3 sqn with 85 *Tornado* IDS (incl 10 IDS recce); 1 sqn with 15 F-5B *Freedom Fighter*/F-5F *Tiger II*/RF-5E *Tigereye*; 3 sqn with 71 F-15S *Eagle*

AEW 1 sqn with 5 E-3A *Sentry*

Tpt 3 sqn with 7 C-130E *Hercules*; 29 C-130H *Hercules*; 2 C-130H-30 *Hercules*; 4 CN-235; 3 L-100-30HS (hospital ac)

Tkr some sqn with 8 KC-130H *Hercules* (tkr/tpt); 7 KE-3A

OCU 2 sqn with 14 F-5B *Freedom Fighter*\*

Trg 3 sqn with 25 *Hawk* MK65 (incl aerobatic team); 18 *Hawk* MK65A; 1 sqn with 1 Jetstream MK31; some sqn with 20 MFI-17 *Mushshak*; 1 sqn with 13 Cessna 172; 2 sqn with 45 PC-9

Hel 2 sqn with 10 AS-532 *Cougar* (CSAR); 22 AB-205 (Bell 205); 13 AB-206A (Bell 206A) *JetRanger*; 17 AB-212 (Bell 212); 16 AB-412 (Bell 412) *Twin Huey* (SAR)



EQUIPMENT BY TYPE

AIRCRAFT 291 combat capable  
FTR 191

F-5 14: 14 F-5B *Freedom Fighter*\*  
F-5B *Freedom Fighter Tiger* FTR/F-5F *Tiger II* FTR/RF-5E *Tigereye* RECCE 15\*  
F-15 155: 66 F-15C *Eagle*; 18 F-15D *Eagle*; 71 F-15S *Eagle Tornado* ADV 22

STRIKE/FGA 85: 85 *Tornado* IDS (incl 10 IDS recce)

AEW • E-3 5: 5 E-3A *Sentry*

TKR 15

KC-130 8: 8 KC-130H *Hercules* (tkr/tpt)

KE-3A 7

TPT 45

C-130 38: 7 C-130E *Hercules*

C-130H 31: 29; 2 C-130H-30 *Hercules*

CN-235 4

L-100 3: 3 L-100-30HS (hospital ac)

UTL 13: 13 *Cessna* 172

TRG 109:

HAWK MK65 43: 25 (incl aerobatic team); 18 *Hawk* MK65A

Jetstream MK31 1 MFI-17 *Mushshak* 20 PC-9 45

HELICOPTERS

UTL 78: 22 AB-205 (Bell 205); 17 AB-212 (Bell 212); 16 AB-412 (Bell 412) *Twin Huey* (SAR); 10 AS-532 *Cougar* (CSAR); 13 AB-206A (Bell 206A) *JetRanger*

MSL • TACTICAL • ASM: some AGM-65 *Maverick*

ARM: some ALARM

Sea Eagle some

AAM: some AIM-7 *Sparrow*; some AIM-7M *Sparrow*/AIM-9J *Sidewinder*/AIM-9L *Sidewinder*/AIM-9P *Sidewinder*; some *Sky Flash*

Royal Flt

AIRCRAFT • TPT 16

B-737 1: 1 B-737-200

B-747 2: 2 B-747SP

BAE-125 4: 4 BAe-125-800

Cessna 310 1 Gulfstream III 2 Learjet 35 2

VC-130 4: 4 VC-130H

HELICOPTERS

SPT 1: 1 S-70 *Black Hawk*

UTL 3+: some AB-212 (Bell 212); 3 AS-61

Air Defence Forces 16,000

FORCES BY ROLE

SAM 2-4 bn with a total of 160 PAC-2; 17 bn eq. with a total of 68 *Shahine*; 50 AMX-30SA; 73 unit (static defence) with *Crotale/Shahine*; 16 bty each with 128 I-HAWK MIM-23B

EQUIPMENT BY TYPE

AD

SAM 3,716: 500 *Mistral*; 160 PAC-2; *Crotale/Shahine*; 68 *Shahine*

SP 440: 40 *Crotale*; 400 FIM-92A *Avenger*

TOWED • MIM-23 2,048: 2,048 I-HAWK MIM-23B

MANPAD 500: 500 FIM-43 *Redeye*

GUNS 1,140

20mm • SP 92: 92 M-163 *Vulcan*

30mm • SP 850: 850 AMX-30SA

35mm 128

40mm • TOWED 70: 70 L/70 in store

RADAR • AD RADAR 17: 17 AN/FPS-117

National Guard 75,000 active; 25,000 (tribal levies) (total 100,000)

FORCES BY ROLE

Cav 1 (ceremonial) sqn

Mech Inf 3 bde (each: 4 army bn (all arms))

Inf 5 bde

EQUIPMENT BY TYPE

RECCE 514: 384 LAV-25 *Coyote*; 130 LAV-AG

APC • APC (W) 1,953+:

LAV 1,513+: 47 (plus 190 spt vehs); 290+ LAV-150 *Commando*; 810 in store; 111 LAV-AT; 182 LAV-CP; 73 LAV-M

*Piranha* 440

ARTY • TOWED 70

105mm 40: 40 M-102

155mm 30: 30 M-198

MOR: some 81mm; some 120mm (incl 73 on LAV-M)

AT • MSL • TOW • TOW-2: some TOW-2A (incl 111 on LAV)

RCL • 106mm • M-40: some M-40A1

Paramilitary 15,500+ active

Frontier Force 10,500

Coast Guard 4,500

EQUIPMENT BY TYPE

PATROL AND COASTAL COMBATANTS €500

PBI €500 less than 100 tonnes

PFI 4: 4 *Al Jouf*

PBF 2: 2 *Seaguard*

PB 8

AMPHIBIOUS • CRAFT 8: 8 UCAC

LOGISTICS AND SUPPORT 2: 1 RY (5,000t); 1 Trg

FACILITIES

Base Located at Azizam

General Civil Defence Administration Units

HELICOPTERS • SPT 10: 10 Boeing Vertol 107

Special Security Force 500

APC • APC (W): some UR-416

FOREIGN FORCES

United States USCENTCOM: 300 (army/air force trg personnel only)

## Syria Syr

| Syrian Pound S£ |      | 2004    | 2005    | 2006 |
|-----------------|------|---------|---------|------|
| GDP             | S£   | 973bn   | 1,051bn |      |
|                 | US\$ | 20.1bn  | 20.1bn  |      |
| per capita      | US\$ | 1,114   | 1,091   |      |
| Growth          | %    | 3.4     | 1.7     |      |
| Inflation       | %    | 3.5     | 4.0     |      |
| Debt            | US\$ |         |         |      |
| Def bdgt        | S£   | £70.2bn | 75.7bn  |      |
|                 | US\$ | 1.44bn  | 1.45bn  |      |
| US\$1=S£        |      | 48.5    | 52.2    | 52.2 |

<sup>a</sup> Excluding extra budgetary funding

Population 18,448,752

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 19%  | 6%    | 5%    | 4%    | 14%   | 2%      |
| Female | 18%  | 6%    | 5%    | 4%    | 14%   | 2%      |

## Capabilities

**ACTIVE 307,600** (Army 200,000 Navy 7,600 Air 40,000 Air Defence 60,000) Paramilitary 108,000

**RESERVE 354,000** (Army 280,000 Navy 4,000 Air 70,000)

*Terms of service* conscription, 30 months

## ORGANISATIONS BY SERVICE

**Army 200,000** (incl conscripts); **280,000 reservists** (to age 45) (total 480,000)

### FORCES BY ROLE

3 Corps HQ

|                  |  |
|------------------|--|
| Armd             | 7 div ( <i>each</i> : 1 mech bde, 1 arty regt, 3 armd bde)   |
| Mech             | 3 div under strength ( <i>each</i> : 1 arty regt, 2 mech bde, 2 armd bde)  |
| Inf              | 4 indep bde  |
| SF               | 1 div (3 SF regt); 10 indep regt   |
| Arty             | 2 indep bde  |
| AT               | 2 indep bde  |
| SSM              | 1 bde (with SS-21) (3 SSM bn); 1 bde (with <i>Scud-B/-C</i> ) (3 SSM bn); 2 (coastal def) bde (SS-C-1B <i>Sepal</i> and SS-C-3 <i>Styx</i> ); 1 bde (with FROG-7) (3 SSM bn) |
| Border Guard     | 1 bde  |
| Republican Guard | 1 div (1 arty regt, 1 mech bde, 3 armd bde)  |

### Reserves

Armd 1 div HQ; 4 bde; 2 regt

Inf 31 regt

Arty 3 regt

### EQUIPMENT BY TYPE

TK • MBT 4,600

T-72 1,600: 1,600 T-72 MBT/T-72M some in store

T-62 1,000: 1,000 T-62K/T-62M some in store

T-55 2,000: 2,000 T-55 MBT/T-55MV some in store

RECCE • BRDM 800: 800 BRDM-2

AIFV • BMP 2,200: 2,100 BMP-1; 100 BMP-2

APC • APC (W) • BTR 1,600+: 1,600+ BTR-152/BTR-50/BTR-60/BTR-70

ARTY 3,150

TOWED 1,530

122mm 850: 600 D-30; 100 M-1931/37 (in store); 150 M-30 M-1938

130mm 600: 600 M-46

152mm 70: 20 D-20; 50 M-1937

180mm 10: 10 S23

SP 430

122mm 380: 380 2S1 *Carnation*

152mm 50: 50 2S3

MRL 480

107mm 200: 200 Type-63

122mm 280: 280 BM-21

MOR 710: 200 82mm

120mm 400: 400 M-1943

160mm 100: 100 M-160

240mm 10: 10 M-240

AT • MSL 4,190+: 800 AT-10; some AT-14 *Kornet*; 3,000 AT-3 *Sagger* (incl 2500 SP); 150 AT-4 *Spigot*; 40 AT-5 *Spandrel*; some AT-7 *Saxhorn*; 200 *Milan*

RL • 105mm: some RPG-29

73mm: some RPG-7 *Knout*

AD

SAM 4,335+

SP 235: 20 SA-11 *Gadfly*; 35 SA-13 *Gopher*; 160 SA-8 *Gecko*; 20 SA-9 *Gaskin*

MANPAD 4,100+: 100 SA-14 *Gremlin*; some SA-18 *Grouse* (*Igla*); 4,000 SA-7 *Grail*

GUNS 2,050

100mm • TOWED 25: 25 KS-19

23mm 1,050

SP 400: 400 ZSU-23-4

TOWED 650: 650 ZU-23-2

37mm • TOWED 300: 300 M-1939

57mm • TOWED 675: 675 S-60

MSL • TACTICAL • SSM 72+: 18 FROG-7; 18+ SS-21 *Scrab* (*Tochka*); 4 SS-C-1B *Sepal*; 6 SS-C-3 *Styx* (SSM msl totals est 850)

SCUD 26: 26 *Scud-B/Scud-C/Scud-D*

**Navy 7,600; 4,000 reservists** (total 11,600)

### EQUIPMENT BY TYPE

PRINCIPAL SURFACE COMBATANTS • FRIGATES • FF 2:

2 *Petya* III each with 1 triple 533mm ASTT (3 eff.) with SAET-60 HWT, 4 RBU 2500 *Smerch* 1 (64 eff.)†, 2 76mm twin gun

PATROL AND COASTAL COMBATANTS 18

PFI 8: 8 *Zhuk* less than 100 tonnes

PFM 10:

10 *Osa* I/II each with 4 single each with 1 SS-N-2C *Styx* tactical SSM

**MINE WARFARE • MINE COUNTERMEASURES 5**MSC 1: 1 *Natya*MSI 3: 3 *Yevgenya*

MSO 1: 1 T-43 (FSU)

**AMPHIBIOUS • LS • LSM 3:**3 *Polnochny B* (capacity 180 troops; 6 MBT)**LOGISTICS AND SUPPORT 4:** 1 AGOR; 1 spt; 1 (div); 1 trg**FACILITIES**

Bases Located at Latakia, Tartus, Minet el-Baida

**Naval Aviation****HELICOPTER 25** atk hel**ASW 13**KA-27 2: 2 Ka-28 (Ka-27PL) *Helix A* (air force manpower)Mi-14 *Haze 11***Air Force 40,000; 70,000 reservists (total 110,000)**Flying hours 15 to 25 hrs/year on FGA/ftr; 70 hrs/year;  
50 hrs/year on MBB-223 *Flamingo* trg ac**FORCES BY ROLE**Ftr 4 sqn with 30 MiG-25 *Foxbat*; 4 sqn with 80 MiG-23  
*Flogger*; 9 sqn with 160 MiG-21 *Fishbed*; 1 sqn with  
80 MiG-29A *Fulcrum A*FGA 2 sqn with 60 MiG-23BN *Flogger H*; 1 sqn with  
20 Su-24 *Fencer*; 5 sqn with 50 Su-22 (Su-17M-2)  
*Fitter D*Recce 4 sqn with 40 MiG-21H *Fishbed*/MiG-21J *Fishbed*\*;  
8 MiG-25R *Foxbat*\*Tpt some sqn with 1 An-24 *Coke*; 6 An-26 *Curl*;  
2 *Falcon 20*; 1 *Falcon 900*; 4 Il-76 *Candid*; 6 Yak-40  
*Codling*; 100 Mi-17 (Mi-8MT) *Hip H*/Mi-8 *Hip*;  
20 PZL Mi-2 *Hoplite*Atk hel some sqn with 36 Mi-25 *Hind D*; 35 SA-342L  
*Gazelle*Trg some sqn with 6 Su-22 (Su-17M-2) *Fitter D*\*; 2 PA-  
31 *Navajo*; 70 L-39 *Albatros*\*; 35 MBB-223 *Flamingo*  
(basic); 6 MFI-17 *Mushshak*; 20 MiG-21U *Mongol*  
*A*\*; 6 MiG-23UM\*; 2 MiG-25U *Foxbat*\***EQUIPMENT BY TYPE****AIRCRAFT 632** combat capable**FTR 390**MiG-29 80: 80 MiG-29A *Fulcrum A*MiG-25 *Foxbat* 30 MiG-23 *Flogger* 80MiG-21 200: 160 MiG-21H *Fishbed*/MiG-21J *Fishbed*  
40\***FGA 136:** 20 Su-24 *Fencer*MiG-23B 60: 60 MiG-23BN *Flogger H*Su-17 • Su-17M 56: 50 Su-22 (Su-17M-2) *Fitter D*; 6\***RECCE 8:** 8 MiG-25R *Foxbat*\***TPT 22:** 1 An-24 *Coke*; 6 An-26 *Curl*; 2 *Falcon 20*; 1 *Falcon*  
900; 4 Il-76 *Candid*; 2 PA-31 *Navajo*; 6 Yak-40 *Codling***TRG 139:** 70 L-39 *Albatros*\*; 35 MBB-223 *Flamingo* (basic);  
6 MFI-17 *Mushshak*; 20 MiG-21U *Mongol A*\*

MiG-23U 6: 6 MiG-23UM\*

MiG-25U *Foxbat 2*\***HELICOPTERS****ATK 71**Mi-25 36: 36 Mi-25 *Hind D*SA-342 35: 35 SA-342L *Gazelle***SPT 120**Mi-8 100: 100 Mi-17 (Mi-8MT) *Hip H*/Mi-8 *Hip* spt helPZL Mi-2 *Hoplite 20***MSL • TACTICAL • ASM:** some AS-7 *Kerry*; some HOT**AAM:** some AA-10 *Alamo*; some AA-2 *Atoll*; some AA-6  
*Acrid*; some AA-7 *Apex*; some AA-8 *Aphid***Air Defence Command €60,000****FORCES BY ROLE**AD 2 div (total: 25 AD bde (total: 150 SAM bty with  
148 SA-3 *Goa*; 195 SA-6 *Gainful* (585 eff.); 320 SA-2  
*Guideline*, some ADA bty with 4,000 SA-7A *Grail*/SA-  
7B *Grail*))SAM 2 regt with 44 SA-5 *Gammon* (each: 2 SAM bn (each: 2  
SAM bty))**EQUIPMENT BY TYPE****AD • SAM 4,707:** 148 SA-3 *Goa*SP 195: 195 SA-6 *Gainful***TOWED 320:** 320 SA-2 *Guideline***STATIC 44:** 44 SA-5 *Gammon***MANPAD • SA-7 4000:** 4,000 SA-7A *Grail*/SA-7B *Grail***Paramilitary €108,000****Gendarmerie 8,000**

Ministry of Interior

**Workers' Militia €100,000**

People's Army (Ba'ath Party)

**FOREIGN FORCES****Russia:** Army 150**Tunisia Tn**

| Tunisian Dinar D  |      | 2004   | 2005   | 2006 |
|-------------------|------|--------|--------|------|
| <b>GDP</b>        | D    | 35.1bn | 38.0bn |      |
|                   | US\$ | 28.3bn | 29.9bn |      |
| <b>per capita</b> | US\$ | 2,838  | 2,970  |      |
| <b>Growth</b>     | %    | 5.8    | 4.7    |      |
| <b>Inflation</b>  | %    | 3.6    | 2.0    |      |
| <b>Debt</b>       | US\$ |        |        |      |
| <b>Def bdgt</b>   | D    | 554m   | 555m   |      |
|                   | US\$ | 447m   | 440m   |      |
| <b>FMA (US)</b>   | US\$ | 9.8m   | 10.4m  | 8.4m |
| <b>US\$1=D</b>    |      | 1.24   | 1.26   | 1.35 |

**Population 10,074,951**

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 13%  | 5%    | 5%    | 5%    | 19%   | 3%      |
| Female | 12%  | 5%    | 5%    | 5%    | 19%   | 3%      |

## Capabilities

**ACTIVE 35,300** (Army 27,000 Navy 4,800 Air 3,500)  
**Paramilitary 12,000**

*Terms of service* 12 months selective

## ORGANISATIONS BY SERVICE

**Army 5,000; 22,000 conscript (total 27,000)**

### FORCES BY ROLE

Mech 3 bde (*each*: 1 arty regt, 1 AD regt, 1 armd regt,  
2 mech inf regt)

SF 1 (Sahara) bde; 1 bde

Engr 1 regt

### EQUIPMENT BY TYPE

TK 132

MBT • M-60 84: 30 M-60A1; 54 M-60A3

LT TK 48: 48 SK-105 *Kuerassier*

RECCE 60

AML 40: 40 AML-90

Saladin 20

APC 268

APC (T) • M-113 140: 140 M-113A1/M-113A2

APC (W) 128: 18 EE-11 *Urutu*; 110 Fiat 6614

ARTY 276

TOWED 115

105mm • M-101 48: 48 M-101A1/M-101A2

155mm 67

M-114 12: 12 M-114A1

M-198 55

MOR 161: 95 81mm; 48 107mm (some SP)

120mm 18: 18 Brandt

AT

MSL 590: 500 *Milan*; 90 TOW (incl 35 M-901 ITV)

RL • 89mm 600: 300 LRAC; 300 M-20

AD

SAM 86

SP 26: 26 M-48 *Chaparral*

MANPAD 60: 60 RBS-70

GUNS 127

20mm • TOWED 100: 100 M-55

37mm • TOWED 15: 15 Type-55 (M-1939)/Type-65

40mm • SP 12: 12 M-42

RADAR • LAND: some RASIT (veh, arty)

**Navy €4,800**

### EQUIPMENT BY TYPE

**PATROL AND COASTAL COMBATANTS €25+**

PCC 3: 3 *Utique* (mod PRC *Haizhui* II)

PCI 10 less than 100 tonnes

PFM 12:

3 *Bizerte* (Fr P-48) each with 8 SS 12M tactical SSM

3 *La Galite* (Fr *Combattante* III) each with 2 Mk 140

*Harpoon* quad (8 eff.) each with 1 MM-40 *Exocet* tactical  
SSM, 1 76mm gun

6 *Albatros* (Type 143B) eq with 2 x 76mm gun, 2 twin  
launcher (4 eff.) for MM38 *Exocet*, 2 x 533mm TT

**LOGISTICS AND SUPPORT 2: 1 AGS**

TRG 1: 1 *Salambo* (US *Conrad*, survey)

## FACILITIES

Bases Located at Bizerte, Sfax, Kelibia

**Air Force 2,800; 700 conscript (total 3,500)**

### FORCES BY ROLE

FGA 1 sqn with 12 F-5E *Tiger II*/F-5F *Tiger II*

CCT 1 sqn with 3 MB-326K; 3 MB-326L

Tpt 1 sqn with 8 C-130B *Hercules*; 1 C-130E *Hercules*;  
2 C-130H *Hercules*; 1 *Falcon* 20; 5 G-222; 3 L-410  
*Turbolet*

Liaison 1 sqn with 2 S-208A

Tpt/utl 2 sqn with 6 AS-350B *Ecureuil*; 1 AS-365 *Dauphin*  
hel 2; 15 AB-205 (Bell 205); 6 SA-313; 3 SA-316

*Alouette III*; 10 UH-1H *Iroquois*; 2 UH-1N *Iroquois*;  
1 sqn with 11 HH-3E

Trg 2 sqn with 12 L-59 *Albatros*\*; 4 MB-326B;  
14 SF-260

### EQUIPMENT BY TYPE

**AIRCRAFT 27 combat capable**

FTR • F-5 12: 12 F-5E *Tiger II*/F-5F *Tiger II*

FGA 3: 3 MB-326K

TPT 20

C-130 11: 8 C-130B *Hercules*; 1 C-130E *Hercules*; 2 C-  
130H *Hercules*

*Falcon* 20 1 G-222 5 L-410 *Turbolet* 3

UTL • S-208 2: 2 S-208A

TRG 33: 12 L-59 *Albatros*\*; 4 MB-326B; 3 MB-326L; 14 SF-  
260

### HELICOPTERS

SPT 6

AS-350 6: 6 AS-350B *Ecureuil*

UTL 37: 15 AB-205 (Bell 205); 11 HH-3; 1 AS-365 *Dauphin*  
2; 6 SA-313; 3 SA-316 *Alouette III*

UH-1 12: 10 UH-1H *Iroquois*; 2 UH-1N *Iroquois*

MSL • TACTICAL • AAM • AIM-9: some AIM-9J  
*Sidewinder*

**Paramilitary 12,000**

**National Guard 12,000**

Ministry of Interior

**PATROL AND COASTAL COMBATANTS 26**

PCC 6: 6 *Kondor* I (ex-GDR)

PCI 20: 11 (under 100 tonnes) *Bremse* 5 (ex-GDR) *Gabes*  
4; 4 *Rodman*

HELICOPTERS • UTL 8: 8 SA-318 *Alouette II*/SA-319  
*Alouette III*

## DEPLOYMENT

### BURUNDI

UN • ONUB 8 obs

### CÔTE D'IVOIRE

UN • UNOCI 2; 4 obs

### DEMOCRATIC REPUBLIC OF CONGO

UN • MONUC 465; 31 obs

### ETHIOPIA/ERITREA

UN • UNMEE 4; 4 obs

## United Arab Emirates UAE

| Emirati Dirham D |      | 2004    | 2005    | 2006 |
|------------------|------|---------|---------|------|
| GDP              | D    | 378bn   | 435bn   |      |
|                  | US\$ | 103bn   | 119bn   |      |
| per capita       | US\$ | 40,809  | 46,242  |      |
| Growth           | %    | 5.7     | 6.7     |      |
| Inflation        | %    | 3.8     | 6.0     |      |
| Debt             | US\$ |         |         |      |
| Def bdgt*        | D    | €9.50bn | €9.75bn |      |
|                  | US\$ | €2.58bn | €2.65bn |      |

US\$1=D 3.67 3.67 3.67

\* Excluding extra-budgetary procurement funding

Population 2,563,212

**Ethnic groups:** Nationals 24%; Expatriates 76% of which Indian 30%, Pakistani 20%; other Arab 12%; other Asian 10%; UK 2%; other European 1%

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 13%  | 6%    | 5%    | 4%    | 29%   | 3%      |
| Female | 12%  | 5%    | 5%    | 3%    | 14%   | 1%      |

## Capabilities

**ACTIVE 50,500 (Army 44,000 Navy 2,500 Air 4,000)**

The Union Defence Force and the armed forces of the UAE (Abu Dhabi, Dubai, Ras Al Khaimah, Fujairah, Ajman, Umm al-Qaywayn and Sharjah) were formally merged in 1976 and centred on Abu Dhabi. Dubai still maintains independent forces, as do other emirates to a lesser degree.

## ORGANISATIONS BY SERVICE

**Army 44,000 (incl Dubai 15,000)**

### FORCES BY ROLE

|               |                     |
|---------------|---------------------|
| GHQ Abu Dhabi |                     |
| Armd          | 2 bde               |
| Mech inf      | 3 bde               |
| Inf           | 2 bde               |
| Arty          | 1 bde (3 arty regt) |
| Royal Guard   | 1 bde               |

### Dubai Independent Forces

Mech inf 2 bde

### EQUIPMENT BY TYPE

TK 545

MBT 469: 390 *Leclerc*; 36 OF-40 Mk2 (*Lion*); 45 AMX-30

LT TK 76: 76 *Scorpion*

RECCE 113

AML 49: 49 AML-90

*Ferret* 20 in store *Saladin* 20 in store VBL 24

AIFV 430: 15 AMX-10P

BMP 415: 415 BMP-3

APC 860

APC (T) 136: 136 AAPC (incl 53 engr plus other variants)

APC (W) 724

BTR 90: 90 BTR-3U *Guardian*

EE-11 *Urutu* 120

M-3 *Panhard* 370

TPz-1 *Fuchs* 64

VCR 80 (incl variants)

ARU 46

ARTY 501+

TOWED 93

105mm 73: 73 ROF It

130mm 20: 20 Type-59-I

SP • 155mm 181: 78 G-6

M-109 85: 85 M-109A3

Mk F3 18

MRL 72+

122mm 48+: 48 *Firos-25* (est 24 op); some Type-90 (reported)

300mm 6: 6 9A52 *Smerch*

70mm 18: 18 LAU-97

MOR 155

81mm 134: 20 Brandt; 114 L16

120mm 21: 21 Brandt

AT

MSL 305+: 50 HOT (20 SP); 230 *Milan*; 25 TOW; some *Vigilant* in store

RCL 262

106mm 12: 12 M-40

84mm 250: 250 *Carl Gustav*

AD

SAM • MANPAD 40+: 20+ *Blowpipe*; 20 *Mistral*

GUNS 62

20mm • SP 42: 42 M3 VDAA

30mm • TOWED 20: 20 GCF-BM2

MSL • TACTICAL • SSM • SCUD 6: 6 *Scud-B* (up to 20 msl)

**Navy €2,500**

### EQUIPMENT BY TYPE

#### PRINCIPAL SURFACE COMBATANTS 4

##### FRIGATES • FFG 2:

2 *Abu Dhabi* (NL *Kortenaer*) each with 2 AS-565 aslt hel, 1 Mk 29 *Sea Sparrow* octuple with 24 RIM-7F/M *Sea Sparrow* SAM, 2 Mk 141 *Harpoon* quad (8 eff.) (no weapons embarked) each with 1 AGM-84A *Harpoon* tactical ASM, 2 Twin 324mm TT (4 eff.) each with A244/Mk 46, 1 76mm gun

##### CORVETTES • FSG 2:

2 *Muray Jip* (Ge *Lurssen* 62m) each with 1 SA-316 *Alouette III* utl hel, 2 quad (8 eff.) each with 1 MM-40 *Exocet* tactical SSM

#### PATROL AND COASTAL COMBATANTS 14

PCC 6: 6 *Ardhana* (UK Vosper 33m)

##### PFM 8:

6 *Ban Yas* (Ge *Lurssen* TNC-45) each with 2 twin (4 eff.) each with 1 MM-40 *Exocet* tactical SSM, 1 76mm gun  
2 *Mubarras* (Ge *Lurssen* 45m) each with 2 twin (4 eff.) each with 1 MM-40 *Exocet* tactical SSM, 1 76mm gun

#### AMPHIBIOUS • CRAFT 19:

LCP 12

LCU 1

LCT 6: 3 LCT; 3 *Al Feyi*

LOGISTICS AND SUPPORT 2: 1 AT; 1 spt (div)



**FACILITIES**

Bases Located at Mina Sakr (Sharjah), Mina Rashid, Khor Fakkan, Mina Zayed (Dubai), Dalma, Abu Dhabi (Main base), Mina Khalid, Mina Jabal (Ras-al-Khaimah)

**Naval Aviation**

**AIRCRAFT • TPT • LEARJET 35 2:** 2 *Learjet 35A*

**HELICOPTERS**

**ASLT 7:** 7 AS-565

**ASW/ASUW • AS-332 7:** 7 AS-332F *Super Puma* (in ASUW role)

**UTL 4:** 4 SA-316 *Alouette III*

**Air Force 4,000**

Incl Police Air Wing

Flying hours 110 hrs/year

**FORCES BY ROLE**

**Ftr** 1 sqn with 20 M-2000EAD (M-2000E) *Mirage*

**FGA** 1 sqn with first of 80 F-16E *Falcon* Block 60/F-16F *Falcon* Block 60 (being delivered); 2 sqn with 8 M-2000DAD (M-2000ED) *Mirage*; 44 M-2000 RAD *Mirage*; 1 sqn with 17 *Hawk* MK63A/*Hawk* MK63C/*Hawk* MK63; 1 sqn with 13 *Hawk* MK102

**Recce** 1 sqn with 7 M-2000 RAD *Mirage*\*

**SAR** 1 sqn with 3 A-109K2; 6 AB-139

**Tpt** 3 sqn with 1 An-124 *Condor*; 4 C-130H *Hercules*; 2 C-130H-30 *Hercules*; 7 CASA 235M-100; 1 DHC-6-300 *Twin Otter*; 4 Il-76 *Candid* on lease; 2 L-100-30; 2 Beech 350 *Super King Air* (VIP)

**OCU** trg unit with 6 M-2000DAD (M-2000ED) *Mirage*\*; 5 *Hawk* MK61\*

**Atk hel** 2 sqn with 30 AH-64A *Apache*; AS-550C3 *Fennec*; 10 SA-342K *Gazelle* each with HOT tactical ASM

**Tpt hel** 1 sqn with 12 CH-47C *Chinook* (SF); 15 IAR-330 SOCAT *Puma*/SA-330 *Puma*; 2 AB-139 (VIP); 4 AS-365F *Dauphin 2* (VIP); 9 Bell 206 *JetRanger* trg; 3 Bell 214; 1 Bell 407; 9 Bell 412 *Twin Huey*

**Trg** trg school with 12 Grob 115TA; 30 PC-7 *Turbo Trainer*

**EQUIPMENT BY TYPE**

**AIRCRAFT** 123 combat capable

**FGA 57+:** first of 55 F-16E *Falcon* Block 60/25F-16F *Falcon* Block 60/FGA ac (being delivered)

**M-2000 44:** 24 M-2000DAD (M-2000ED) *Mirage*

**FTR 20** M-2000EAD (M-2000E) *Mirage*

*Hawk* **MK102 13**

**RECCE 7:** 7 M-2000 RAD *Mirage*

**TPT 23:** 1 An-124 *Condor*; 2 Beech 350 *Super King Air* (VIP) **C-130 6:**

**C-130H 6:** 4; 2 C-130H-30 *Hercules*

**CN-235 • CN-235M 7:** 7 CASA 235M-100

**DHC-6 1:** 1 DHC-6-300 *Twin Otter*

**Il-76** *Candid* 4 on lease

**L-100 2:** 2 L-100-30

**TRG 64**

**GROB 115 12:** 12 Grob 115TA

*Hawk* **MK61 5\***

**HAWK MK63 17:** 17 *Hawk* MK63 Trg ac/*Hawk* MK63A/

*Hawk* MK63C\*

**PC-7 Turbo Trainer 30**

**HELICOPTERS**

**ATK • AH-64 30:** 30 AH-64A *Apache*

**AS-550C3** *Fennec* some

**ASLT • SA-342 10:**

10 SA-342K *Gazelle* each with HOT tactical ASM

**SPT • CH-47 12:** 12 CH-47C *Chinook* (SF)

**IAR-330 SOCAT** *Puma* aslt/SA-330 *Puma* spt 15

**UTL 37**

**A-109 3:** 3 A-109K2

**AB-139 6;** 2 (VIP)

**AS-365 4:** 4 AS-365F *Dauphin 2* (VIP)

**Bell 206** *JetRanger* 9 trg **Bell 214 3** **Bell 407 1** **Bell 412**

*Twin Huey* 9

**MSL • TACTICAL • ASM:** some AGM-114 *Hellfire*; some AS-15 *Kent*; some *Hydra-70*; some PGM-1 *Hakeem 1*; some PGM-2 *Hakeem 2*

**AAM • AIM-9:** some AIM-9L *Sidewinder*

**MICA** some **R-550** *Magic*

**Air Defence****FORCES BY ROLE**

**AD** 2 bde (*each:* 3 AD bn); 3 bn with I-HAWK MIM-23B

**SAM** 3 short-range bn with *Crotale*; *Mistral*; *Rapier*; RB-70; *Javelin*; SA-18 *Grouse* (*Igla*)

**EQUIPMENT BY TYPE**

**AD • SAM:** some *Crotale*; some *Mistral*; some *Rapier*

**SP:** some RB-70

**TOWED • MIM-23:** some I-HAWK MIM-23B

**MANPAD:** some *Javelin*; some SA-18 *Grouse* (*Igla*)

**Paramilitary • Coast Guard**

Ministry of Interior

**PATROL AND COASTAL COMBATANTS 38+**

**PB 29:** 2 *Protector*

**PBF 9**

**Air Defence****FORCES BY ROLE**

**AD** 2 bde (*each:* 3 AD bn); 3 bn with I-HAWK MIM-23B

**SAM** 3 short-range bn with *Crotale*; *Mistral*; *Rapier*; RB-70; *Javelin*; SA-18 *Grouse* (*Igla*)

**EQUIPMENT BY TYPE**

**AD • SAM:** some *Crotale*; some *Mistral*; some *Rapier*

**SP:** some RB-70

**TOWED • MIM-23:** some I-HAWK MIM-23B

**MANPAD:** some *Javelin*; some SA-18 *Grouse* (*Igla*)

**FOREIGN FORCES**

**United States** USCENTCOM: 1,300

## Yemen, Republic of Ye

| Yemeni Rial R |      | 2004   | 2005   | 2006 |
|---------------|------|--------|--------|------|
| GDP           | R    | 2.54tr | 3.16tr |      |
|               | US\$ | 13.8bn | 16.6bn |      |
| per capita    | US\$ | 691    | 799    |      |
| Growth        | %    | 2.7    | 2.4    |      |
| Inflation     | %    | 12.5   | 12.7   |      |
| Debt          | US\$ |        |        |      |
| Def bdgt      | R    | £160bn | £180bn |      |
|               | US\$ | £870m  | £942m  |      |
| FMA (US)      | US\$ | 14.9m  | 10m    | 8.4m |
| US\$1=R       |      | 184    | 191    | 195  |

Population 20,727,063

Ethnic groups: North 79%; South 21%

| Age    | 0-14 | 15-19 | 20-24 | 25-29 | 30-64 | 65 plus |
|--------|------|-------|-------|-------|-------|---------|
| Male   | 24%  | 6%    | 5%    | 4%    | 11%   | 1%      |
| Female | 23%  | 6%    | 5%    | 4%    | 11%   | 1%      |

## Capabilities

**ACTIVE 66,700** (Army 60,000 Navy 1,700 Air 5,000)

**Paramilitary 71,200**

*Terms of service* conscription, 2 years

## ORGANISATIONS BY SERVICE

**Army 60,000** (incl conscripts)

### FORCES BY ROLE

|                  |   |
|------------------|---|
| Armd             | 8 bde                                     |
| Mech             | 6 bde                                     |
| Inf              | 16 bde                                    |
| SF               | 1 bde                                     |
| Cdo/AB           | 2 bde                                     |
| Arty             | 3 bde                                     |
| SSM              | 1 bde                                     |
| Gd/Central Guard | 1 force                                   |
| AD               | 6 bde ( <i>each</i> : 1 SAM bn, 4 ADA bn) |

### EQUIPMENT BY TYPE

**TK • MBT 790:** 60 T-72

**M-60 50:** 50 M-60A1

**T-62 200 T-54/T-55 450 T-34 30**

**RECCE 130**

**AML 80:** 80 AML-90

**BRDM 50:** 50 BRDM-2

**AIFV • BMP 200:** 200 BMP-1/BMP-2

**APC 710**

**APC (T) 60:** 60 M-113

**APC (W) • BTR 650:** 650 BTR-152/BTR-40/BTR-60 (150 op)

**ARTY 1,167**

**TOWED 310**

**105mm • M-101 25:** 25 M-101A1

**122mm 200:** 130 D-30; 30 M-1931/37; 40 M-30 M-1938

**130mm 60:** 60 M-46

**152mm 10:** 10 D-20

**155mm 15:** 15 M-114

**SP • 122mm 25:** 25 2S1 *Carnation*

**COASTAL • 130mm 36:** 36 SM-4-1

**MRL 294**

**122mm 280:** 280 BM-21 (150 op)

**140mm 14:** 14 BM-14

**MOR 502:** 200 81mm

**82mm 90:** 90 M-43

**107mm 12 120mm 100 160mm £100**

**AT**

**MSL 71:** 35 AT-3 *Sagger*; 24 M47 *Dragon*; 12 TOW

**RCL • 107mm:** some B-11

**75mm:** some M-20

**82mm:** some B-10

**RL • 66mm:** some M-72 *LAW*

**73mm:** some RPG-7 *Knout*

**GUNS • 100mm 50:** 20 M-1944; 30 SU-100 SP

**85mm:** some D-44

**AD**

**SAM 800:** £800 SA-13 *Gopher* SP/SA-14 *Gremlin* MANPAD/

SA-7 *Grail* MANPAD/SA-9 *Gaskin* SP (800-3200 eff.)

**GUNS 530**

**20mm 70**

**SP 20:** 20 M-163 *Vulcan*

**TOWED 50:** 50 M-167 *Vulcan*

**23mm 150**

**SP 50:** 50 ZSU-23-4

**TOWED 100:** 100 ZU-23-2

**37mm • TOWED 150:** 150 M-1939

**57mm • TOWED 120:** 120 S-60

**85mm • TOWED 40:** 40 M-1939 *KS-12*

**MSL • TACTICAL • SSM 28:** 12 FROG-7; 10 SS-21 *Scarab* (*Tochka*)

**SCUD 6:** 6 *Scud-B* (est 33 msl)

**Navy 1,700**

### EQUIPMENT BY TYPE

**PATROL AND COASTAL COMBATANTS 22**

**PF1 2:** 2 *Zhuk* (FSU, under 100 tonnes)

**PFM 4:**

3 *Huangfen* each with 4 single with 3 YJ-1 (CSS-N-4)

*Sardine* tactical SSM

1 *Tarantul* with 2 twin (4 eff.) with 4 SS-N-2C *Styx* tactical SSM

**PB 10:** 10 *Austal*

**PBF 6**

**MINE WARFARE • MINE COUNTERMEASURES 6**

**MHC 5:** 5 *Yevgenya* (FSU)

**MSO 1:** 1 *Natya* (FSU)

**AMPHIBIOUS**

**LS • LSM 1:** 1 NS-722 (capacity 5 MBT 110 troops)

**CRAFT 5**

**LCU 3:** 3 PI NS-717

**LCM 2:** 2 *Ondatra* (FSU)

**LOGISTICS AND SUPPORT • AOT 2:** 2 *Toplivo*

### FACILITIES

Bases Located at Aden, Hodeida

Minor These have naval spt eqpt, located at Socotra, Al

Bases Mukalla, Perim Island

**Air Force 5,000** (incl Air Defence)

### FORCES BY ROLE

Ftr 3 sqn with 10 F-5E *Tiger II*; 18 MiG-29SMT *Fulcrum*;  
2 MiG-29UBT *Fulcrum*; 15 MiG-21 *Fishbed*;

## 214 THE MILITARY BALANCE 2006

FGA 1 sqn with 30 Su-20 (Su-17M) *Fitter C*/Su-22 (Su-17M-2) *Fitter D*  
 Tpt 1 sqn with 2 An-12 *Cub*; 6 An-26 *Curl*; 3 C-130H *Hercules*; 4 Il-14 *Crate*; 3 Il-76 *Candid*  
 Trg 1 trg school with 2 F-5B *Freedom Fighter*†\*; 12 L-39C; 4 MiG-21U *Mongol A*\*; 14 Yak-11 *Moose*; 12 Z-242  
 Hel 1 sqn with 8 Mi-35 *Hind* (attack); 1 AB-47 (Bell 47); 9 Mi-8 *Hip*; 2 Bell 212

**EQUIPMENT BY TYPE**

**AIRCRAFT** 75 combat capable

**FTR** 47

F-5 12: 2 F-5B *Freedom Fighter*†; 10 F-5E *Tiger II*

MiG-29 20: 20 MiG-29SMT *Fulcrum*/-29UBT

MiG-21 *Fishbed* 15

**FGA • Su-17 • Su-20 (Su-17M)** 30: 30 Su-20 (Su-17M) *Fitter C* Su-17 FGA/Su-22 (Su-17M-2) *Fitter D*

**TPT** 18: 2 An-12 *Cub*; 6 An-26 *Curl*

C-130 3: 3 C-130H *Hercules*

Il-14 *Crate* 4 Il-76 *Candid* 3

**TRG** 44

L-39 12: 12 L-39C

MiG-21U *Mongol A* 4\*

Yak-11 *Moose* 14 Z-242 12

**HELICOPTERS**

ATK 8: 8 Mi-35 *Hind* (atk)

SPT 10: 1 AB-47 (Bell 47); 9 Mi-8 *Hip*

UTL 2: 2 Bell 212

**Air Defence 2,000**

AD • SAM: some SA-3 *Goa*

SP: some SA-13 *Gopher*; some SA-6 *Gainful*; some SA-9 *Gaskin*

TOWED: some SA-2 *Guideline*

MANPAD: some SA-14 *Gremlin*; some SA-7 *Grail*

MSL • TACTICAL • AAM: some AA-2 *Atoll*; some AIM-9 *Sidewinder*

**Paramilitary 71,200**

**Ministry of the Interior Forces 50,000**

**Tribal Levies 20,000+**

**Yemeni Coast Guard Authority €1,200**

**PATROL AND COASTAL COMBATANTS**

PCI 5: 5 *Interceptor* (French) less than 100 tonnes

PB 4: 4 *Defender* (US)

PBI 8

**NON-STATE ARMED GROUPS**

see Part II

**DEPLOYMENT****BURUNDI**

UN • ONUB 6 obs

**CÔTE D'IVOIRE**

UN • UNOCI 6 obs

**SUDAN**

UN • UNMIS 15 obs

Table 28 Selected Arms orders and deliveries, Middle East and North Africa

|               | Country Supplier | Classification | Designation         | Quantity | Order date | Delivery date | Comment  |
|---------------|------------------|----------------|---------------------|----------|------------|---------------|--|
| Algeria (Ag)  | RF               | FTR            | MiG-29 SMT          | 36       | 2006       | 2010          | USD3.5bn total cost of order including the order for 28 SU-30 MKA and 16 YAK-130. Option for the purchase of an additional 36 MiG-29 SMT |
|               | RF               | FGA            | SU-30 MKA           | 28       | 2006       | 2010          | USD3.5bn total cost of order including the order for 36 MiG-29 SMT and 16 YAK-130  |
|               | RF               | Trg            | YAK-130             | 16       | 2006       | 2010          | USD3.5bn total cost of order including the order for 28 Su-30 MKA and 36 MiG-29 SMT  |
|               | RF               | AD             | S-300PMU-2          | 8 bn     | 2006       | –             | USD1bn   |
|               | RF               | AD             | Tunguska-M1 ADGMS   | 24       | 2006       | –             | USD500m. Option of additional 30 systems   |
|               | RF               | MBT            | T-90S               | 300      | 2006       | –             | USD1bn   |
|               | RF               | ATGW           | <i>Kornet</i> -E    | –        | 2006       | –             | USD50m   |
|               | RF               | ATGW           | <i>Metis</i> -M1    | –        | 2006       | –             | USD50m   |
|               | RF               | MBT            | T-72                | 250      | 2006       | –             | USD200m – Upgrade.   |
|               | RF               | IFV            | BMP-2               | 400      | 2006       | –             | USD200m – Upgrade  |
| Bahrain (Brn) | UK               | Trg            | <i>Hawk</i> T MK129 | 6        | 2003       | 2005          | Deliveries continue. Option on further 6   |
| Egypt (Et)    | PRC              | Trg            | K-8                 | 80       | 1999       | 2001          | Deliveries continuing  |
|               | RF               | SAM            | SA-3A <i>Goa</i>    | 50       | 1999       | –             | Upgrade to Pechora-2 aka SA-3A <i>Goa</i> continues  |

Table 28 Selected Arms orders and deliveries, Middle East and North Africa

|               | Country Supplier | Classification | Designation                         | Quantity | Order date | Delivery date | Comment   |
|---------------|------------------|----------------|-------------------------------------|----------|------------|---------------|---|
|               | US               | Atk Hel        | AH-64A <i>Apache</i>                | 35       | 2000       | –             | Upgrade to AH-64D Apache Longbow standard   |
|               | US               | MBT            | M1-A1 <i>Abrams</i>                 | 125      | 2004       | 2005–8        | USD277m   |
|               | US               | ARV            | M88A2 <i>Hercules</i>               | 21       | 2004       | –             | Deliveries continuing.  |
|               | US               | Msl            | RAM Mk49 GMLS                       | 3        | 2005       | 2009          | USD24.75m. Upgrade for Fast Missile Craft   |
| Morocco (Mor) | RF               | AD             | Tunguska -256M                      | –        | 2005       | –             | –   |
| Iran (Ir)     | RF               | FGA            | Su-27 <i>Flanker</i>                | 26       | 2005       | –             | Reportedly on order   |
|               | RF               | FGA            | Su-24                               | –        | 2005       | –             | Upgrade. Part of USD1.5bn arms deal   |
|               | RF               | Ftr            | MiG-29                              | –        | 2005       | –             | Upgrade. Part of USD1.5bn arms deal   |
|               | RF               | MBT            | T-72                                | –        | 2005       | –             | Upgrade. Part of USD1.5bn arms deal   |
|               | RF               | AD             | Tor M-1                             | 32       | 2005       | 2006          | Delivery of 29 systems by the end of 2006. All by 2007. Part of USD1.5bn arms deal  |
| Iraq (Irq)    | PL               | Hel            | Mi-17V5                             | 10       | 2005       | 2008          | –   |
|               | PL               | APC            | Dzik3                               | 600      | 2005       | 2008          | Deliveries to be completed by mid-2008  |
|               | PL               | APC            | BTR-80                              | 115      | 2005       | 2006          | USD30m  |
|               | US               | APC            | M1114 <i>HMMWV</i>                  | 1563     | 2005       | 2005          | Final deliveries by 2006. USD59.8m  |
|               | Hu               | MBT            | T-72                                | 77       | 2005       | 2005          | Donation  |
|               | CH               | APC            | Spz 63/89                           | 180      | 2005       | 2006          | Original order was from UAE (blocked by Swiss Parliament) Given by UAE to Iraq.   |
| Israel (il)   | dom              | MBT            | <i>Merkava</i> Mk IV                | 200–240  | 1991       | 2002          | Estimated 50-60 tanks per year over a four year period. First operational unit reported 2004  |
|               | US               | BMD            | <i>Nautilus</i>                     | –        | 1992       | –             | Joint development with US   |
|               | dom              | sat            | <i>Ofeq 5</i>                       | 1        | 1995       | 2003          | Development slowed by lack of funds   |
|               | US               | FGA            | F-16I <i>Sufa</i>                   | 50       | 1999       | 2004          | Deliveries continuing. Equipped with Popeye 2 and Python 4 AAM  |
|               | US               | FGA            | F-16I <i>Sufa</i>                   | 52       | 2001       | 2006          | Deliveries continuing   |
|               | US               | Hel            | AH-64D <i>Apache Longbow</i>        | 18       | 2001       | 2005          | Initial contract (USD640m) for 12 AH-64D includes upgrade of 3 Israeli AH-64A to D. Further contract in December 2004 for the purchase of 6 additional units (USD100m). |
|               | dom              | PFI            | <i>Super Dvora</i> MKIII-class      | 4        | 2005       | 2006–7        | Phase B award after initial order and delivery of first 6 vessels   |
|               | Dom              | PFI            | <i>Shaldag</i> -class               | 3        | 2005       | 2006–7        | Phase B award after initial order and delivery of first 2 vessels   |
|               | US               | ASM            | JDAM                                | 5000     | 2004       | –             | Deliveries continuing   |
|               | US               | ASM            | <i>Paveway III</i>                  | 100      | 2005       | –             | USD30m. GBU-28B laser guided for F-15I Thunderer  |
|               | dom              | C2             | Command and Control                 | –        | 2005       | 2008          | USD900m. Digital Army Programme (DAP) 2 Divs equipped by 2008   |
|               | US               | ECM            | Beech-200CT/T <i>Super King Air</i> | 4        | 2000       | –             | Still on order  |
|               | dom              | PFB            | <i>Tzir'a</i> -class                | 4        | 2005       | –             | Modified version  |

Table 28 Selected Arms orders and deliveries, Middle East and North Africa

|                            | Country Supplier | Classification | Designation                       | Quantity | Order date | Delivery date | Comment  |
|----------------------------|------------------|----------------|-----------------------------------|----------|------------|---------------|--|
|                            | Ge               | SSK            | <i>Dolphine-class</i>             | 2        | 2005       | –             | Estimated cost of EUR1bn (USD1.21bn), of which Germany will pay one third.                     |
| Jordan (HKJ)               | US               | Hel            | UH-60L <i>Black Hawk</i>          | 8        | 2003       | –             | Still on order   |
|                            | RF               | Tpt            | IL-76MF <i>Candid</i>             | 2        | 2005       | –             | Still on order   |
|                            | US               | APC            | M113A1                            | 126      | 2005       | 2006          | USD18.2m. Upgrade to M113A2Mk1   |
|                            | dom              | Recce ac       | Seeker SB7L                       | 6        | 2006       | 2006          | –  |
| Kuwait (Kwt)               | It               | PFB            | Fast Patrol Boat                  | 12       | 2004       | 2005          | P46 for Coastguard. First delivered Mar 2005 Order to be completed June 2006.                  |
| Oman (O)                   | NI               | Hel            | NH 90 TTH                         | 20       | 2003       | 2008          | –  |
|                            | UK               | Hel            | <i>Super Lynx</i>                 | 20       | 2001       | 2004          | Deliveries continuing  |
|                            | US               | FGA            | F-16 <i>Fighting Falcon</i>       | 12       | 2001       | 2005          | Final aircraft due for delivery in mid-2006  |
|                            | US               | AAM            | AIM-120C <i>AMRAAM</i>            | 10       | 2001       | 2006          | –  |
|                            | US               | AAM            | AIM-9M <i>Sidewinder</i>          | 100      | 2001       | 2006          | –  |
|                            | US               | ASM            | AGM-84D <i>Harpoon</i>            | 20       | 2001       | 2006          | –  |
| Saudi Arabia (Sau)         | Int              | FGA            | Eurofighter <i>Typhoon</i>        | 72       | 2005       | 2008          | –  |
| Tunisia (Tn)               | Ge               | PFM            | <i>Albatros-class</i> (Type 143B) | 4        | 2005       | 2006–7        | EUR33m (USD40.3m) Transfer. Deliveries expected between 2006–7                                 |
| United Arab Emirates (UAE) | Fr               | MBT            | <i>Leclerc</i>                    | 390      | 1993       | 1994          | Final Delivery May 2005 final quantity 288.  |
|                            | Fr               | Hel            | AS-350B <i>Ecureuil</i>           | 14       | 1999       | 2001          | –  |
|                            | US               | FGA            | F-16 <i>Fighting Falcon</i>       | 80       | 2000       | 2005          | With AMRAAM, HARM and Hakeem msl. Deliveries continuing  |
|                            | US               | Atk Hel        | AH-64D <i>Apache</i>              | 30       | 2002       | –             | Upgrade from AH-64A to D standard. Programme continuing  |
|                            | Dom/Fr           | FSG            | <i>Baynunah-class</i>             | 6        | 2003       | 2006          | First of class being built in France, with delivery due in 2006. All others to be built in UAE |
|                            | Ge               | NBC            | Tpz-1 <i>Fuchs</i>                | 64       | 2005       | –             | USD205m  |
|                            | dom              | HMTV           | Tpt                               | 500      | 2005       | 2005          | USD41m. High mobility tactical vehicles  |
|                            | US               | Hel            | AB-139                            | 8        | 2005       | 2005          | GBP83m (USD143m) SAR role  |
|                            | Ge               | MHC            | Type-332-class                    | 2        | 2006       | 2006          | –  |
| Yemen, Republic of (Ye)    | RF               | FGA            | MiG-29 SMT <i>Fulcrum</i>         | 12       | 2001       | 2004          | Deliveries continuing  |



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## PART TWO

## Non-State Armed Groups

Table 56 Non-State Activity Reference

| Place                                       | Activity  | Groups/Trends   | Reference   |
|---|---|---|-------------|
| <b>Europe</b>                               |   |   |             |
| Moldova                                     | Separatism  | Transnistria  | p. 50       |
| Kosovo                                      | Sectarian   | KLA   | p. 51       |
| Georgia                                     | Separatism  | Abkhaz, South Ossetian  | pp. 51, 149 |
| Spain                                       | Domestic Terrorism, Separatism                    | ETA ceasefire   | p. 51       |
| UK  | Domestic Terrorism                                | IRA disarmament   | pp. 51–52   |
| <b>Russia</b>                               |   |   |             |
| Russia-Chechnya                             | Crime, Domestic Terrorism, Insurgency, Separatism | Chechen rebel, acquire <i>Igla</i> surface to air missile, increasing abductions                  | pp. 149–150 |
| Russia – Kabardino-Balkharia                | Domestic Terrorism, Separatism                    | <i>Yarmuk</i> , held govt buildings in Nalchik  | p. 150      |
| <b>Middle East and North Africa</b>         |   |   |             |
| Iraq  | Insurgency, Sectarian Violence                    | Sunni fundamentalists, Ba'ath Loyalists, Suicide, increasing use of IEDs, al-Askari shrine attack | p. 165      |
| Jordan                                      | International Terrorism                           | al-Qaeda, Amman hotel bombings, USS <i>Ashland</i> attack   | p. 166      |
| Lebanon                                     | Assassination                                     | Assassination of anti-Syrian personalities  | p. 167      |
| Israel/Lebanon                              | Terrorism   | Hizbullah   | p. 167      |
| Israel/Palestine                            | Elections, Domestic Terrorism                     | Hamas, PFLP   | p. 168      |
| Algeria                                     | Extremism, Terrorism                              | GSPC, arrests   | p. 169      |
| <b>Central and South Asia</b>               |   |   |             |
| Uzbekistan                                  | Local Insurrection, Trials                        | IMU, Hizb-ut-Tahrir and <i>Akramiya</i>   | p. 217      |
| Tajikistan-Uzbekistan                       | Drug Smuggling, Border Porosity                   | IMU, Hizb-ut-Tahrir, Bayat  | p. 218      |
| Afghanistan                                 | Drugs, Insurgency, Smuggling                      | Taliban and Jihadists   | p. 218      |
| Pakistan                                    | Insurgency  | Baluchis  | p. 220      |
| India                                       | Domestic Terrorism                                | Naxalites, Maoists  | p. 222      |
| Bangladesh                                  | Domestic Terrorism, Sectarian Violence            | Jamaat-ul Mujahideen Bangladesh, coordinated bombings   | p. 223      |
| Nepal                                       | Domestic Terrorism, Insurgency                    | Maoist groups   | p. 223      |
| <b>Caribbean, Central and Latin America</b> |   |   |             |
| Colombia                                    | Drug Smuggling, Insurgency                        | FARC, ELN, AUC demobilisation   | p. 304      |
| Colombia/Ecuador/Peru                       | Drug Smuggling, Insurgency                        | FARC, cross-border activity   | p. 304      |
| Peru  | Drug Smuggling, Insurgency                        | <i>Shining Path</i> , links to drug barons  | p. 304      |
| <b>Sub-Saharan Africa</b>                   |   |   |             |
| Democratic Republic of Congo                | Insurgency  | Many, see NSAG table  | p. 347      |
| Ivory Coast                                 | Insurgency  | Many, see NSAG table  | p. 348      |
| Nigeria                                     | Insurgency  | Many, see NSAG table  | p. 348      |
| Sudan                                       | Ethnic Violence                                   | Janjaweed, SSDF disbanded, SPLM, Comprehensive Peace Agreement (CAP)                              | p. 348      |
| Chad  | Ethnic Violence                                   | RDF, FCUD, cross-border activity  | p. 349      |
| Uganda                                      | Ethnic Violence, Insurgency, Peace Talks          | LRA   | p. 349      |

Table 57 Selected Non-State Armed Groups

| Definition  |  |             |               |        |   |  |
|---|--|-------------|---------------|--------|---|--|
| In this table, a 'non-state armed group' is an organised and armed opposition force with a recognised political goal, acting independently from state or government. Groups are only included if they have an effective command structure. The definition covers groups that might be variously described as guerillas, militia forces, paramilitary or self-defence groups and also terrorist groups with political objectives that have caused significant damage and casualties over the years. The table only includes non-state armed groups that are active or have recently been active and which represent, or have represented, a significant threat to states and governments. Armed groups with solely criminal objectives are excluded. |  |             |               |        |   |  |
| Origin  | Organisation * aka   | Estb.       | Est. Strength | Status | Operates                                | Aims and Remarks   |
| NORTH AMERICA   |  |             |               |        |   |  |
| US  | 18th Street Gang / Mara 18   | 1960s       | 20,000+       | A      | EIS, Mex, US                            | Organised crime, turf wars; predominantly Hispanic org   |
| US  | Mara Savatrucha (MS-13)  | 1980s       | 8–10,000      | A      | EIS, Gua, Hr, US, C. America            | Criminal enterprise; originated from Pico Union in Los Angeles, spread through US and C. America                   |
| EUROPE  |  |             |               |        |   |  |
| Fr  | Armata Corsa   | 1999        | 30+           | A      | Corsica                                 | Self determination for Corsica, transfer of detained terrorists back to Corsica, end of organised crime in Corsica |
| Fr  | Clandestini Corsi  | 2004        | n.k.          | A      | Corsica                                 | Rid Corsica of foreigners, stop drug trafficking on Corsica  |
| Fr  | National Liberation Front of Corsica (FLNC)  | 1976        | 600           | A      | Corsica                                 | Leftist grp for Corsican independence, preserve Corsican language and culture                                      |
| FRFY  | Albanian National Army (ANA) / Armaj Kombetare Shqiptare (AKSh)  | 1999        | n.k.          | A      | Kosovo, FYROM                           | Insurgent Alb grp for united Alb state, most membership from the disbanded KLA and NLA                             |
| FRFY  | Liberation Army of Presevo, Medvedja and Bujanovac (UCPMB)   | 2000        | 800           | D      | Presevo Valley, Serbia, W. and N. FYROM | Annex Kosovo for ethnic Albanians  |
| FYROM   | Kosovo Liberation Army (KLA) / Ushtria Cllirimtare e Kosoves (UCK)                                     | 1992-3      | 5–12,000+     | D      | Kosovo                                  | Loose grp desiring autonomy for Kosovars, eventual unification with other Albanians                                |
| FYROM   | National Liberation Army (NLA) / Ushtria Cllirimtare Kombetare (UCK)                                   | 1999-01     | 2–3,000+      | D      | FYROM                                   | Greater Alb, overlapping membership with AKSh, KLA, UCPMB, not to be confused with Kosovo's UCK                    |
| Ga  | Abkhazia separatists   | early 1990s | 1,500+        | C      | Abkhazia                                | Separate, indep Abkhazia, protection of Abkhazi culture from Ga dominance  |
| Ga  | South Ossetia Separatists  | early 1990s | n.k.          | C      | S. Ossetia                              | Seeks an indep South Ossetia   |
| Ga  | White Legion and Forest Brothers   | 1997        | 2–300+        | D      | Abkhazia                                | Georgian grp destabilising Abkhazia  |
| Gr  | Revolutionary Nuclei (RN)  | 1983        | 100           | A      | Athens                                  | Remove US influence, anti-govt   |
| Gr  | Revolutionary Struggle / Epanastatikos Aghonas   | 2003        | n.k.          | A      | Athens                                  | Anti-capitalist grp, similar ideology to RN  |
| It  | Anti-Imperialist Territorial Nuclei (NTA)  | 1995        | 20            | A      | N. It                                   | Opposes US and NATO, condemns It's foreign and labour policies   |
| It  | Informal Anarchist Federation / Federazione Anarchia Informale (FAI)                                   | 2003        | n.k.          | A      | It                                      | Anarchist grp, opposes current European order  |
| It  | New Red Brigades/Communist Combatant Party (BR/PCC)  | 1984        | 50            | A      | It                                      | Opposed to It's foreign and labour policies, anti-NATO   |
| It  | Proletarian Nuclei for Communism / Nuclei Proletari per Comunismo (NPC) / Proletarian Combatant Groups | 2003        | n.k.          | A      | It                                      | Marxist class-struggle, seeks creation of anarchist state, anti-imperialist grp                                    |
| It  | Revolutionary Proletarian Initiative Nuclei (NIPR)   | 2000        | 12+           | A      | It                                      | Opposes It's foreign and labour policies, supports Marxist-Leninist ideologv                                       |

Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka  | Estb.  | Est. Strength | Status | Operates               | Aims and Remarks  |
|--------|---|--------|---------------|--------|------------------------|---|
| It     | Revolutionary Front for Communism (FRC)   | 1996   | n.k.          | A      | It                     | Marxist-Leninist grp, anti-globalisation  |
| Mol    | Transnistria Separatists Movement   | 1992   | 7,500         | A      | Transnistria           | Separate state of Transnistria  |
| Sp     | Euskadi ta Askatasuna (ETA)   | 1959   | 300           | C      | Basque regions         | Indp homeland on Marxist principles in Basque autonomous regions; declared permanent cease-fire Mar 2006  |
| Sp     | First of October Antifascist Resistance Group (GRAPO)   | 1975   | 20            | A      | Sp                     | Replace govt in Sp with Communist regime  |
| Sw     | Global Intifada   | 2002   | n.k.          | A      | Sw                     | Leftist grp opposed to capitalism, imperialism and current world order  |
| Tu     | Great Eastern Islamic Raiders Front (IBDA-C) / Front Islamique des Combattants du Grand Orient  | 1970's | 100           | A      | Tu                     | Advocates uncorrupted Islamic rule in Tu and rejects current regime; Sunni Salafist grp   |
| Tu     | Kurdistan Freedom Hawks / Teyrbazen Azadiya Kurdistan (TAK)   | 2004   | n.k.          | A      | Tu                     | Opposes Tu's policies on the Kurdish issue, targets businesses and govt installations; separatist grp   |
| Tu     | Partiya Karkaren Kurdistan (PKK) / People's Congress of Kurdistan (Kongra-Gel)  | 1978   | 4–5,000       | A      | N. Ir, N. Irg, Syr, Tu | Revolution to free Kurdish people and estb indp Kurdish state; Marxist-Leninist; in 1999 'peace initiative' claimed halt to use of force; terminated cease-fire in June 2004    |
| Tu     | People's Defence Forces (HPG)   |        | 3,000+        | A      | Tu                     | Militant wing of the People's Congress of Kurdistan   |
| Tu     | Turkish Hizbullah   | 1994   | 200+          | A/D    | Tu                     | Estb an indp Islamic state  |
| Tu     | Revolutionary People's Liberation Party-Front (DHKP-C)  | 1978   | 1000          | A      | Tu, Asia, Europe       | Marxist grp opposed to the US and to NATO; seeks revolution   |
| Tu     | TKP / ML-TIKKO / Turkiye Komünist Partisi / Marksist-Leninist-Turkiye Isci Koylu Kurtulus Ordusu  | 1972   | 1000          | A      | Tu                     | Communist, anti-Western grp; TKP/ML changed name to the Maoist Communist Party (MKP) and TIKKO changed name to the People's Liberation Army (HKO) in Jan 2003                   |
| UK     | Continuity Irish Republican Army (CIRA) / Continuity Army Council   | 1994   | 30            | A      | Irl, UK                | Reunify Irl; opposed Sinn Fein's adoption of the Jul 1997 cease-fire; armed wing of Republican Sinn Fein  |
| UK     | Irish National Liberation Army (INLA) / People's Liberation Army (PLA) / People's Republican Army (PRA) / Catholic Reaction Force (CRF) | 1975   | 50            | C      | Irl, UK                | Unified Irl with Marxist-Leninist political and social infrastructures, remove British forces from N. Irl and unite it with Irl; armed wing of Irish Republican Socialist Party |
| UK     | Irish Republican Army (IRA) / Official Irish Republican Army (OIRA)   | 1922   | 250           | C/D    | Irl, UK                | Unite N. Irl with the Republic of Irl; declared end to 'armed struggle' 28 July 2005 including PIRA   |
| UK     | Loyalist Volunteer Force (LVF) / Red Hand Defenders   | 1996   | 300           | C      | Irl, UK                | No political settlement with nationalists in N. Irl, maintain strong ties with UK; UVF faction  |
| UK     | Orange Volunteers   | 1970's | 25            | C      | Irl, UK                | No political settlement with nationalists in N. Irl; destabilise peace process  |
| UK     | Provisional Irish Republican Army (PIRA) / Provos   | 1969   | 300+          | C/D    | International          | Remove British forces from N. Irl, unite N. Irl with Republic of Irl  |
| UK     | Real Irish Republican Army (RIRA) / True IRA  | 1997   | 200           | A      | Irl, UK                | Unification of Irl, opposed Sinn Fein's adoption of Jul 1997 cease-fire; armed wing of 32 County Sovereignty Committee  |
| UK     | Secret Organisation Group of al-Qaeda of Jihad Organisation in Europe / Abu Hafis al-Masri Brigade                                      | 2005   | n.k.          | A      | Irl, UK                | Ideologically opposed to Western culture; possibly responsible for July 2005 London bombings  |
| UK     | Ulster Defence Association (UDA) / Ulster Freedom Fighters (UFF)  | 1971   | 200+          | A      | Irl, UK                | Protect Loyalist community, backed the 1998 Good Friday Agreement; largest loyalist para-military grp in N. Irl, armed wing of Ulster Democratic Party                          |
| UK     | Ulster Volunteer Force (UVF) / Protestant Action Force / Protestant Action Group  | 1966   | 150+          | C      | Irl, UK                | Safeguard N. Irl's constitutional position within UK, protect Loyalist community; armed wing of Progressive Unionist Party  |

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Table 57 Selected Non-State Armed Groups

| Origin                              | Organisation * aka   | Estb. | Est. Strength | Status | Operates                                       | Aims and Remarks  |
|-------------------------------------|--|-------|---------------|--------|--|---|
| <b>RUSSIA</b>                       |  |       |               |        |  |   |
| RF                                  | Amanat Jama'at   | n.k.  | n.k.          | A      | Chechnya                                       | Wahhabi Chechen separatist grp  |
| RF                                  | Black Widows / Chyornyeye Vdovy  | 1999  | 30+           | A      | Chechnya                                       | Female suicide bombers for Chechen independence, avenge death of relatives in the Chechen conflict  |
| RF                                  | Chechen Rebels   | n.k.  | 2-3,000       | A      | Chechnya, Dagestan                             | Indp state (Muslim mercenaries), some demands for an Islamist state   |
| RF                                  | Islamic International Peacekeeping Brigade (IIPB)                                      | 1998  | 400           | A      | Chechnya, Az, Ga, Tu                           | Withdrawal of Ru forces from Chechnya, fully indp Chechen state; members participated in the October 2002 Dubrovka theatre attack in Moscow |
| RF                                  | Jama'at of Dagestan 'Shariat' / Shariah Jama'at / Dzhenet                              | 2004  | n.k.          | A      | Dagestan                                       | Separatists seeking independence for Dagestan   |
| RF                                  | Jama'at Yarmuk   | 2004  | n.k.          | A      | N. Caucasus                                    | Autonomous N. Caucas region; responsible for Nalchik bombing in 2005  |
| RF                                  | Riyadus-Salikhin Reconnaissance and Sabotage Battalion of Chechen Martyrs (RSRBCM)     | 2002  | 50            | A      | Chechnya                                       | Withdrawal of Ru forces from Chechnya   |
| RF                                  | Special Purpose Islamic Regiment (SPIR)  | 1996  | 100           | A      | Chechnya, Az, Ga, Tu                           | Withdrawal of Ru forces from Chechnya, fully indp Chechen state; members participated in the October 2002 Dubrovka theatre attack in Moscow |
| <b>MIDDLE EAST AND NORTH AFRICA</b> |  |       |               |        |  |   |
| Ag                                  | Armée Islamique du Salut (AIS)   | 1992  | 4,000+        | C/D    | Ag   | Socialist republic in Ag within framework of Islamic principles; armed wing of Front Islamique du Salut (FIS); (cease-fire with govt 1997)  |
| Ag                                  | Dhamat Houmet Daawa Salafia  | n.k.  | n.k.          | A      | Ag   | Previously known as Katibat el Ahoual, emerged when leader, Mohammed Benslim, broke away from GIA   |
| Ag                                  | Groupe Islamique Armée (GIA)   | 1992  | 100           | D      | Ag, RMM  | Fundamentalist Islamic state in Ag, refused Jan 2002 peace plan; strength undermined by splinter grps                                       |
| Ag                                  | Groupe Salafiste pour la Prédication et le Combat (GSPC)                               | 1998  | 500           | C      | Ag, Cha, Ngr, RMM, International               | Estb a fundamentalist Islamic state in Ag, attacks Western targets; splinter faction of GIA   |
| Brn                                 | Islamic Front for the Liberation of Bahrain (IFLB)                                     | 1981  | n.k.          | D      | Brn, Ir  | Anti-monarchy, restore natl parliament; politically active as Islamic Action Party  |
| Et                                  | al-Gama'a al-Islamiyya / Islamic Group (IG)  | 1977  | 500           | A      | Afg, Et  | Overthrow of the regime of Hosni Mubarak, establishment of an Islamic state in Et; anti-Western al-Qaeda affiliated members                 |
| Et                                  | al-Jihad / Egyptian Islamic Jihad / Jihad Group / Islamic Jihad / Vanguard of Conquest | 1973  | 300           | A      | Cairo, Arg, Pak, RL, Su, UK, Ye, International | Islamic state in Et, anti-US and West; merged with al-Qaeda in 2001, but retains some indp  |
| Et                                  | Islamic Brigades of Pride  | 2005  | n.k.          | A      | Et   | Retaliates against US and other 'colonial powers', anti-oppression of 'Islamic brothers in Iraq and Palestinian territories'                |
| Et                                  | Muslim Brotherhood   | 1928  | n.k.          | D      | International                                  | Promotes Muslim rights and Islam as a way of life; joined ET democratic process; active in armed conflict in Ag, Kashmir and Afg; Sunni     |



Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka   | Estb.       | Est. Strength | Status | Operates                     | Aims and Remarks   |
|--------|--|-------------|---------------|--------|------------------------------|--|
| Et     | Takfir Wal Hijra   | early 1970s | 300+          | A      | Ag, Et, RL, Sdn              | Joined with deported Afg/Pak Mujahideen in N. Africa 'to cleanse society of infidels'; offers intellectual inspiration to al-Qaeda and other militant grps; amorphous extremist Wahhabi sect, original grp manifestation as Muslim Brotherhood offshoot in Et, resp for death of President Anwar Sadat; previously operated as PLO |
| Et/Syr | Abdullah Azzam Brigades of al-Qaeda in Syria and Egypt   | 2004        | n.k.          | A      | Et, HKJ                      | Claimed responsibility for 2005 USS <i>Ashtand</i> attack in Jordan, 2005 Sharm el-Sheikh attacks and 2004 attacks in Taba   |
| HKJ    | Jund al-Shams / the Zarqawi Network / Jama'at al-Tawheed wa Jihad  | n.k.        | 500–1,000     | A      | HKJ, Irq, Syr, International | Oppose US invasion of Irq, anti-monarchy in HKJ; Islamist extremist grp  |
| HKJ    | Tawhid and Jihad / Jama'at Al-Tawhid Wa'al-Jihad (JTJ)   | 1990s       | n.k.          | A      | Irq                          | Overthrow interim govt and expel US Coalition forces, estb Sharia  |
| Il     | Hilltop Youth  | 2000–01     | 100–          | A      | PA                           | Several right-wing dissident youth grps seeking to protect and encourage Jewish settlements, supports 'Avoda Ivrit' (Jewish labour) and wants to exclude Palestinians from the OT; suspected of PI school bombing attempts and roadside shootings  |
| Il     | Kahane Chai / Kach   | 1990        | 30+           | A      | Il, PA                       | Seeks to restore the biblical land of Il by annexing all disputed territories of Il and forcibly removing Palestinians   |
| Ir     | Democratic Party of Iranian Kurdistan (DPKI) / Kurdish Democratic Party of Iran (KDPI)   | 1995        | 1,200–1,800   | D      | Ir                           | Kurdish autonomy in Ir   |
| Ir     | Islamic Action in Iraq   | n.k.        | n.k.          | D      | Ir, Irq                      | Previously sought to overthrow the Hussein govt and replace with an Islamic state, reemerged as a legitimate political party in 2003, as the 'Organisation of Islamic Action in Iraq'  |
| Ir     | Kurdistan Organisation of the Communist Party of Iran / The Revolutionary Organisation of Working People of Iranian Kurdistan (KOMALA)                       | 1967        | 200           | A      | Ir                           | Communist govt in Ir (Formed Communist Party of Iran in 1983)  |
| Ir     | Movement of Islamic Action of Iraq   | 1982        | n.k.          | A/D    | Ir, Irq                      | Shiite faction that supported the Islamic extremists of Khomeini during the Iran-Iraq war; poss still active as Islamic Action in Iraq   |
| Ir     | Mujahedin-e Khalq Organisation (MEK or MKO) / National Council of Resistance (NCR) / National Council of Resistance Iran (NCRI)                              | 1960        | 3,000         | A      | Ir                           | Advocates secular Muslim regime and NCRI rule  |
| Ir     | National Liberation Army of Iran (NLA)   | 1987        | 6–8,000       | A      | Ir                           | 'Democratic, socialist, Islamic republic in Ir'; largest and most active armed Ir dissident gp, armed wing of People's Mujahideen of Iran  |
| Ir     | The Arbav Martyrs of Khuzestan   | 2005        | n.k.          | A      | Khuzestan                    | Better treatment for Khuzestan ppl, separatist grp   |
| Irq    | Abu Bakr al-Siddiq Fundamentalists Brigades / Abu Bakr al-Siddiq Salafi Brigades   | 2004        | n.k.          | A      | Irq                          | Seeks removal of coalition troops from Irq and release of female prisoners from US custody   |
| Irq    | Abu Nidal Organisation (ANO) / Fatah Revolutionary Council / Black September / Arab Revolutionary Brigades / Revolutionary Organisation of Socialist Muslims | 1974        | 300           | D      | International                | Destroy Il; ops in LAR and Et shut down by govts in 1999   |
| Irq    | Al dawa  | 1968        | 2,000         | A      | Irq                          | Islamic rule in Irq; Shia Muslim fundamentalist grp  |

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| Origin | Organisation * aka   | Estb.  | Est. Strength | Status | Operates                   | Aims and Remarks   |
|--------|--|--------|---------------|--------|----------------------------|--|
| Irq    | Al-Faruq Brigades / Jihadist Al-Faruq Brigades / Media Commission for the Mujahideen in Iraq                         | 2003   | n.k.          | A      | Irq                        | Nationalist-Islamist grp, militant wing of Islamic Movement in Iraq  |
| Irq    | Al-Mujahideen Brigades   | 2004   | n.k.          | A      | Fallujah, Ramadi, Khaldiya | Oppose US occupation, threaten cooperative Iraqis  |
| Irq    | al-Qaeda in Iraq / al-Qaeda Organization in the Land of the Two Rivers / Tanzim Qa'idat al-Jihad fi Bilad al-Rafdayn | 2004   | n.k.          | A      | Irq, HKU                   | Expel US-led coalition, overthrow Irq govt, wage jihad   |
| Irq    | Ansar al-Islam / Jund al-Islam / Army Supporters of Islam  | 2001   | 500           | A      | Irq                        | Estb Islamic state in Irq, opposes coalition forces; 500 person membership dispersed after US invasion   |
| Irq    | Ansar Al-Jihad / Supporters of Jihad   | 2004   | n.k.          | A      | Irq                        | Seeks release of all prisoners in Irq and termination of armed operations in Fallujah; nationalist-Islamist grp  |
| Irq    | Ansar al-Sunnah Army   | 2002-3 | n.k.          | A      | N. and W. Irq              | Opposes US occupation of Irq, supports Islamic society in Irq; collection of small Islamist grps including remnants of Ansar al-Islam                  |
| Irq    | Army of the Followers of Sunni Islam / Jaish Ansar al-Sunnah   | 2004   | n.k.          | A      | Irq                        | Oppose US-led coalition in Irq   |
| Irq    | Badr Organisation / Badr Corps   | 1982   | 10,000        | A      | S. Irq                     | 'Oppose Sunni aggression against Irq; mutual agreement signed with PUK against Irq; armed wg of Supreme Council for Islamic Revolution (SCIRI), Shiite |
| Irq    | Brigades of Imam al-Hassan al-Basri  | 2005   | n.k.          | A      | Irq                        | Joined Tanzim Qa'idat al-Jihad fi Bilad al-Rafdayn in 2005; Sunni-Islamist grp   |
| Irq    | Cells of the People  | 2006   | n.k.          | A      | al-Anbar                   | Against Irq's transitional govt and US presence; umbrella grp  |
| Irq    | Divine Wrath Brigades / Kata'ib al-Ghadab al-Ilahi   | 2004   | n.k.          | A/D    | Irq                        | Opposes interim Irq govt and W. presence; supports Muqtada al-Sadr   |
| Irq    | Iraqi Hizbullah  | 2003   | 2-300         | A      | Irq                        | Opposes US occupation of Irq; Shia grp   |
| Irq    | Islamic Army in Iraq (IAI) / al-Jaish al-Islami fi al-Iraq / al-Aqsa Support Division                                | 2005   | thousands     | A      | Irq                        | Drive coalition, civilian and military forces, out of Irq  |
| Irq    | Islamic Jihad Brigades of Muhammad's Army / Jaish Muhammad   | 2003   | 200+          | A      | Irq                        | Opposes US occupation, kills Iraqi collaborators; collection of small Islamist grps  |
| Irq    | Islamic Resistance Brigades  | 2004   | n.k.          | A      | Irq                        | Pullout of foreign entities from Irq, resists US presence in Irq, rejects legitimacy of Irq govt   |
| Irq    | Jaish al-Taifa al-Mansoura / Army of the Victorious Community  | 2003   | n.k.          | A      | Irq                        | Removal of US-led Coalition, estb of Sharia law; member of Mujahideen Shura Council  |
| Irq    | Mahdi Army / Jaish al-Mahdi  | 2003   | 6-10,000      | A      | S. Irq                     | 'Defend Shia rights and faith from US invasion', opposes foreign occupation  |
| Irq    | Patriotic Union of Kurdistan (PUK)   | 1975   | 10,000        | A      | Irq                        | 'Revitalise resistance and rebuild a democratic Kurdish society; evolved into a political movement   |
| Irq    | Saddam Fedayeen / Saddam's Men of Sacrifice  | 1995   | 30,000        | A      | Irq                        | Resists US occupation, attacks US interests and people; Ba'athist militia created under Hussein regime   |
| Irq    | Saraya al-Shuhada al-Jihadiyah fi al-Iraq / Jihadist Martyrs Brigades in Iraq  | 2004   | n.k.          | A      | Irq                        | Opposes US presence in Irq; Iraqi Islamist grp   |
| Irq    | Tha'ar Allah / Revenge of Allah  | 2003   | n.k.          | A      | Basra                      | Opposes US occupation of Irq; Shia grp   |

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| Origin | Organisation * aka   | Estb.      | Est. Strength | Status | Operates   | Aims and Remarks  |
|--------|--|------------|---------------|--------|--|---|
| Irq    | The Return Party   | 2003       | n.k.          | A      | Irq  | Seeks return of Saddam Hussein to power, opposes the occupation   |
| LAR    | Libyan Islamic Fighting Group (LIFG) / al-Jama'at al-Islamiyah al-Muqatilah  | 1995       | 300           | A      | LAR, Middle East                                     | Anti-Libyan govt, wage int'l jihad  |
| Mor    | Moroccan Islamic Combatant Group (GICM)  | 1990's     | n.k.          | A      | Afg, Et, Mor, Tu, W. Europe                          | Estb an Islamic state in Mor, supports al-Qaeda   |
| Mor    | Sahrawi People's Liberation Army (SPLA)  | 1973       | 3–6,000       | C      | Mor  | Indp W. Sahara; armed wing of the Frente Popular para la Liberacion de Saguia el-Hamra y del Rio de Oro (Poliario Front)  |
| Mor    | Salafiya Al-Ahadya / Abu Hafs al Masri Brigade / Assirat Al-Moustakim  | n.k.       | 200–1000      | A      | Mor  | Jihad against W. world; loose network of Salafist grps suspected of bombings in Madrid, London and Casablanca   |
| PA     | Al-Aqsa Martyrs Brigades   | 2000       | n.k.          | A      | II, PA   | Create a PA nation-state, remove Israelis from West Bank, Gaza Strip and Jerusalem; associated, not officially backed, by former PA leadership  |
| PA     | Al-Quds Brigades / Jerusalem Battalions / Jerusalem Brigades / al-Quds Battalions                                      | late 1970s | n.k.          | A      | II, PA, Syr  | Militant wing of Palestinian Islamic Jihad  |
| PA     | Al-Saika / Vanguard of the Popular Liberation War  | 1968       | 300           | A/D    | II, PA   | Mil wing of PA faction of Syr Ba'ath Party, nominally part of PLO   |
| PA     | Arab Liberation Front  | 1969       | 500           | D      | II, PA   | Achieve national goals of PA; faction of PLO formed by leadership of Iq Ba'ath party  |
| PA     | Democratic Front for the Liberation of Palestine (DFLP)  | 1969       | 100+          | A      | II, PA   | Achieve PA national goals through revolution; Marxist–Leninist grp which splintered from PFLP   |
| PA     | Fatah Tanzim   | 1995       | 1000+         | A      | II, PA   | Counter-balance to the military wings of Hamas and Palestinian Islamic Jihad  |
| PA     | Hamas (Islamic Resistance Movement) / Izz al-Din al-Qassam Brigades (IDQ)  | 1987       | 500+          | A      | II, PA   | Estb an Islamic Palestinian state in place of II  |
| PA     | Palestine Islamic Jihad (PIJ) / Shaqaqi faction / Shalla faction   | 1970s      | 500           | A      | II, PA   | 'Destroy II with holy war and estb Islamic state in PA'   |
| PA     | Palestine Liberation Front (PLF) / Jabhat al-Tahrir al-Filistiniyyah   | 1977       | 300–400       | D      | II, PA   | Armed struggle against II; splintered from PFLP   |
| PA     | Palestinian Resistance Committees (PRC) / Salah al-Din Battalions / Salah al-Din Brigades                              | late 2000  | n.k.          | A      | II, PA   | Claimed resp for roadside bombs, suspected in 2003 attack on US embassy employees; composed of members from PIJ, Hamas, Al-Aqsa Martyrs Brigade   |
| PA     | Popular Front for the Liberation of Palestine (PFLP)   | 1967       | 1,000         | A      | II, PA   | Armed struggle against II; Marxist–Leninist   |
| PA     | Popular Front for the Liberation of Palestine – General Command (PFLP–GC)  | 1968       | 500           | D      | II, PA, RL, Syr                                      | Armed struggle against II; Marxist–Leninist, split from PFLP to focus on fighting rather than politics  |
| RL     | Ansar Allah  | 1994       | n.k.          | A      | RL   | Ideological ties with Hizbullah, similar aims   |
| RL     | Asbat al-Ansar / League of Partisans   | 1990's     | 300           | A      | RL   | Advocates Salafism, opposed to any peace with II, estb Sunni Islamic state in RL  |
| RL     | Hizbullah (Party of God) / Islamic Jihad / Revolutionary Justice Organisation / Organisation of the Oppressed on Earth | 1982       | 2,000–        | A      | Bekaa Valley, Beirut, Arg, Br, Py, S. RL, S. America | Ir-style Islamic republic in RL, remove all non-Islamic influences from area; Shi'ite, formed to resist II occupation of south RL with political representation in RL Assembly; some cells operate internationally; UK has designated this 'external security organisation' as a terrorist entity |

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| Origin                        | Organisation * aka  | Estb.      | Est. Strength | Status | Operates       | Aims and Remarks  |
|-------------------------------|---|------------|---------------|--------|----------------|---|
| Sau                           | al-Qaeda in the Arabian Peninsula (AQAP)  | 2004       | n.k.          | A      | Sau            | Independent from al-Qaeda in Afg, similar aims  |
| Sau                           | Al-Haramain Brigades  | 2003       | n.k.          | A      | Sau            | Anti-monarchy in Sau, implement Sharia, expel the west  |
| Tn                            | Tunisian Combatant Group / Groupe Combattant Tunisien / Jama'a Combattante Tunisien       | 2000       | n.k.          | A      | Afg, W. Europe | Creation of an Islamic state in Tn, anti-US grp   |
| Ye                            | Islamic Army of Aden (IAA) / Aden-Abyan Islamic Army (AAIA) / Jaysh Adan-Abiyan al-Islami | 1998       | 30            | D      | S.Ye           | Overthrow of the Ye govt and conduct operations against US and other Western interests in Ye, adherence to Salafi religious faction   |
| Ye                            | Yemeni Islamic Jihad  | 1990's     | 200+          | A      | Ye             | Estb of Sharia law in Ye and opposes Western intervention; al-Qaeda affiliated Islamist grp of ex-Afghan Mujahideen   |
| <b>CENTRAL AND SOUTH ASIA</b> |   |            |               |        |                |   |
| Afg                           | al-Qaeda  | 1988       | n.k.          | A      | International  | 'Re-establish the Muslim state' worldwide; international network controlled by Osama bin Laden  |
| Afg                           | Hizb-e Islami Gulbuddin (HIG)   | 1977       | n.k.          | A      | Afg, Pak       | Force foreign troops to withdraw from Afg and estb a fundamentalist state   |
| Afg                           | Jaish-ul-Muslimin   | 2004       | n.k.          | A      | Afg            | Opposes US govt. and Afg govt, demands release of al-Qaeda and Taliban prisoners in Guantanamo, cessation of UN work in Afg   |
| Afg                           | Saif-ul-Muslimeen / Saif-ul-Muslimeen Lashkar Jihad / Sword of Muslims                    | 2003       | n.k.          | A/D    | E. Afg         | Anti-Afg govt and Western presence  |
| Afg                           | Taliban   | mid 1980's | thousands     | A      | Afg            | Seize power from US backed govt   |
| Afg                           | United Islamic Front for the Salvation of Afghanistan / Northern Alliance                 | mid 1980s  | 15,000        | D      | Afg            | Anti-Taliban grp desiring to estb multi-ethnic govt   |
| Bng                           | Harkat ul-Jihad i-Islami, Bangadesh Cell (HUJI-B) / Bangladesh Taleban                    | 1992       | 3,000+        | A      | Bng            | Recruit Bng and Ind Muslims to fight in Kashmir under HuM; estb by al-Qaeda   |
| Bng                           | Hizbut Towhid (HT)  | 1994       | n.k.          | A      | Bng            | Anti-traditional govt   |
| Bng                           | Islami Biplobi Parishad (IBP)   | 2001       | n.k.          | A      | Bng            | Estb Islamic state  |
| Bng                           | Islami Ch'atra Shibir (ICS)   | 1941       | n.k.          | A      | Bng            | Militant organisation seeking Taliban-style regime in Bng; student wing of Jamaat-e-Islami, Bng's third biggest political party   |
| Bng                           | Jagrata Muslim Janata Bangladesh (JMJB)   | 1998       | n.k.          | A      | Bng            | End activities of left-wing extremist grps in NW, estb of Islamic rule in Bng; Taliban ideology, possibly splinter of JMB   |
| Bng                           | Jama'at ul Mujahideen Bangladesh (JMB)  | 1998       | 10,000        | A      | Bng            | Estb Islamic rule in Bng, opposes democracy   |
| Bng                           | Purba Bangla Communist Party (PBCP)   | 1968       | 1,000+        | A      | Bng            | Capture state power through armed struggle, rid Bng of class exploitation, estb Communist govt  |
| Bng                           | Shahadat al Hiqma   | 1996       | n.k.          | A      | N. Bng         | Anti-Bng Liberation War   |
| Bng                           | Shanti Bahini / Peace Force   | 1976       | 3,000         | D      | Bng            | Fights for autonomy of Chittagong Hill Tracts; armed wing of Parbatya Chattagram Jana Sanghati Samity (PCJSS), disbanded 1998 with possible remaining cells   |
| Bng/Ind                       | Borok National Council of Tripura (BNCT)  | 2000       | n.k.          | A      | Bng, Ind       | Splinter of separatist National Liberation Front of Tripura (NLFT)  |
| Bng/Ind                       | Jama'at ul-Mujahideen (JUM)   | 1990       | n.k.          | A      | N.E. Ind       | Seeks annexation of Jammu and Kashmir to Pak with no negotiations, advocates violence as the only solution; splinter of Ind/Pak HUJI, pro-Pak Islamic grp, different from Jamaat ul-Mujahideen, which is splinter from Hizb ul-Mujahideen |

Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka   | Estb.      | Est. Strength | Status | Operates                    | Aims and Remarks  |
|--------|--|------------|---------------|--------|-----------------------------|---|
| Bng/My | Rohingya Solidarity Organisation (RSO)                           | 1982       | 100–200+      | A      | Bng, My                     | Separate state for Rohingya Muslims in Arakan region of My  |
| Ind    | Achik National Volunteers Council (ANVC)                         | 1995       | n.k.          | A      | Meghalaya, Bng, My          | Estb Achik homeland in the Garo Hills area  |
| Ind    | Adivasi Cobra Force (ACF)  | 1996       | 350           | C      | Ind                         | Protection of Assam (cease-fire with govt 2001)   |
| Ind    | All Muslim United Liberation Front of Assam (AMULFA)             | mid 1990's | n.k.          | A      | N.E. Ind                    | Collection of grps Islamist grps that coordinates subversive activities in N.E. Ind                           |
| Ind    | All Tripura Tiger Force (ATTF)                                   | 1990       | 500–600       | A      | Bng, Ind                    | Indp Tripura and expulsion of Bengali-speaking immigrants from Tripura  |
| Ind    | Al-Umar Mujahideen (AUM) / Al Madina                             | 1989       | 700           | A      | Kashmir                     | Merge the state of Jammu and Kashmir with Pak   |
| Ind    | Arunachal Dragon Force (ADF) / East India Liberation Front (ELF) | 1996       | 60            | A      | Arunachel Pradesh           | Resist domination of Adi tribe, est. homeland for tribe of Tai-Khamtis  |
| Ind    | Babbar Khalsa International (BKI)                                | 1981       | hundreds      | A      | Ind                         | Estb indp Sikh state called Khalistan in N.W. Ind   |
| Ind    | Bodo Liberation Tigers (BLT) / Bodo Liberation                   | 1996       | 2,600         | C/D    | Assam, Bhutan               | Creation of Bodo state under control and protection of Ind constitution (peace accord with govt 2003)         |
| Ind    | Bru National Liberation Front (BNLF)                             | 1997       | 100+          | C      | Assam, Mizoram, Tripura     | Protect rights of Reangs in Mizoram, possibly will attempt to negotiate a separate Reang homeland             |
| Ind    | Daughters of the Faith / Dukhtaran-e-Millat                      | 2005       | n.k.          | A      | Kashmir, Ind                | Promotes strict Islamic rule for Kashmir; women's org   |
| Ind    | Hmar People's Convention-Democracy (HPC-D)                       | 1986       | 100–150       | A      | Mizoram                     | Indp Hmar state in Hmar areas of Assam Manipur, Mizoram   |
| Ind    | Hynniewtrep National Liberation Council (HNLC)                   | 1992       | n.k.          | A      | Meghalaya                   | Estb Khasi homeland in Meghalaya, expel Garos and others  |
| Ind    | Indo-Burmese Revolutionary Front (IBRF)                          | 1989       | n.k.          | A      | N.E. Ind                    | Grp facilitating cooperation among N.E. Ind insurgents and foreign grps                                       |
| Ind    | International Sikh Youth Federation (ISYF)                       | 1985       | n.k.          | A      | Ind, UK, N. America, Europe | Estb indp Sikh state called Khalistan   |
| Ind    | Kamtapur Liberation Organisation (KLO)                           | 1995       | 300           | A      | Assam                       | Separate Kamtapur state   |
| Ind    | Kanglei Yawol Kanna Lup (KYKL)                                   | 1994       | n.k.          | A      | Manipur                     | Rebuild society in Manipur  |
| Ind    | Kuki National Army (KNA)   | 1991       | 600           | A      | Ind/My border               | Estb indp Kukiland comprising parts of Ind and My   |
| Ind    | Manipur People's Liberation Front (MPLF)                         | 1999       | n.k.          | A      | Ind                         | Estb indp socialist Manipur. A coalition of UNLF, the RPF and the People's Revolutionary Party of Kangleipak. |
| Ind    | Maoist Communist Centre (MCC)                                    | 1969       | 1,000+        | D      | Bihar, Jharkhaad            | People's govt through 'armed struggle'; people's war; merged with PWG in Sept. 2004 to form CPI-M             |
| Ind    | Muslim United Liberation Tigers of Assam (MULTA)                 | 1996       | n.k.          | A      | N.E. Ind                    | Islamist state indp of India  |
| Ind    | National Democratic Front of Bodoland (NDFB)                     | 1988       | 1,500         | A      | Assam, Bhutan, Myanmar      | Seeks autonomy for Bodoland in areas north of river Brahmaputra   |
| Ind    | National Liberation Front of Tripura (NLFT)                      | 1989       | 800           | A      | Bng, Ind                    | To estb independence for Tripura through armed struggle   |
| Ind    | National Socialist Council of Nagaland-Isaac Muivah (NSCN-IM)    | 1988       | 4500          | C      | Assam, Manipur, Nagaland    | Estb a greater socialist Nagaland; cease-fire renewed in July 2005  |
| Ind    | People's Liberation Army (PLA)                                   | 1978       | n.k.          | A      | Manipur                     | Unite Manipur's ethnic grps to liberate Manipur from Ind; transtribal org                                     |
| Ind    | People's Revolutionary Party of Kangleipak (PREPAK)              | 1977       | 200           | A      | Mizoram, N Tripura          | Expel 'outsiders' from Manipur  |

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Table 57 Selected Non-State Armed Groups

| Origin  | Organisation * aka  | Estb.       | Est. Strength | Status | Operates                           | Aims and Remarks  |
|---------|---|-------------|---------------|--------|------------------------------------|---|
| Ind     | Rabha National Security Force (RNSF)                                  | late 1990s  | 120           | A      | Assam                              | Separate homeland for Rabhas  |
| Ind     | Ranvir Sena / Ranvir Kisan Maha Sangh / Ranvir Mahila Sangh           | 1994        | 400           | A      | Ind                                | Eliminate left wing extremist grps in Bihar, esp PWG, MCC; supported by some upper caste land owners  |
| Ind     | Sanjukta Mukti Fouj (SMF)   | 1996        | 1,500         | A      | Assam                              | Estb an autonomous and socialist Assam; affiliated militarily with ULFA   |
| Ind     | Students Islamic Movement of India (SIMI)                             | 1977        | 400           | A      | Ind                                | Overthrow current Indian govt, re-estb the Caliphate, Sharia based rule, propagate Islam, oppose democracy, secularism, nationalism, wage jihad   |
| Ind     | Tamil National Retrieval Troops (TNRT)                                | late 1980's | 30            | A      | Ind                                | Estb Tamil homeland in Ind; LTTE sponsored grp  |
| Ind     | The Communist Party of India (CPI-Maoists) / Naxalites                | 1980 / 2004 | 6,500+        | A      | Ind                                | Estb a 'compact revolutionary zone' of control from Nepalese border to Andhra Pradesh, convert to indp, communist state; Maoist grp aiming to seize political power through armed struggle, merger between Maoist Communist Centre (MCC) and People's War Group (PWG) in 2004 |
| Ind     | Tripura Liberation Organisation Front (TLOF)                          | 1992        | n.k.          | A      | Ind                                | Secession of Tripura from Ind   |
| Ind     | United Kuki Liberation Front (UKLF)                                   | 1990s       | n.k.          | A      | Kuki                               | United Kuki state within Manipur  |
| Ind     | United Liberation Front of Assam (ULFA)                               | 1979        | 3,000         | A      | Assam                              | Estb sovereign socialist Assam through armed struggle   |
| Ind     | United Liberation Front of Barak Valley (ULFBV)                       | 2002        | 50+           | A      | Assam                              | Separate homeland for tribal people of Karimgnj and Hailakandi  |
| Ind     | United National Liberation Front (UNLF) / Manipur Peoples' Army (MPA) | 1964        | n.k.          | A      | Assam                              | Indp and socialist Manipur  |
| Ind     | United People's Democratic Solidarity (UPDS)                          | 1999        | 150           | A      | Assam                              | Secession of Karbi 'nation' from N. Assam; union of Karbi National Volunteers (KNV) and Karbi Peoples Front (KPF)   |
| Ind/My  | National Socialist Council of Nagaland-Khaplang (NSCN-K)              | 1988        | 2,000         | C      | Ind, My                            | Estb greater Nagaland in parts of Ind and My; believed to still have armed units (ceasefire with govt 1997)   |
| Ind/Pak | Al-Badr Mujahideen  | 1998        | 100+          | A      | Kashmir                            | 'Liberate' Kashmir from Ind forces; split from Hizb-ul Mujahideen   |
| Ind/Pak | Harkat ul-Mujahideen (HUM) / Harkat ul-Ansar (HUA)                    | 1985        | 300-500       | A      | Kashmir, Afg, BiH, My, Pi, RF, TJK | Seeks Kashmir's accession to Pak. to solidify pan-Islamic entity, conducts 'armed struggle' against those that oppose Islam; Splinter of Ind/Paki HUIJ, pro-Pak Islamic grp, wants to recruit 5,000 fighters  |
| Ind/Pak | Harkat ul-Mujahideen al-Almi  | 2001-02     | n.k.          | A      | Kashmir                            | Seek unification of Kashmir with Pak; splinter of HUM, implicated in assassination attempt on President Musharraf   |
| Ind/Pak | Hizb ul-Mujahideen (HM)   | 1989        | 1500+         | A      | Kashmir                            | Pro-Pak Islamic grp; armed wing of Jama'at-e-Islami   |
| Ind/Pak | Jaish-e-Mohammed (JeM)  | 2000        | 100-400       | A      | Jammu, Kashmir                     | Seeks to expel Ind from Jammu and Kashmir, integration with Pak   |
| Ind/Pak | Jama'at ul-Mujahideen (JuM)   | 1990's      | n.k.          | A      | Kashmir                            | Annexation of Jammu and Kashmir to Pak through violence; splinter grp of HM   |
| Ind/Pak | Lakshar-e-Jabbar (LeJ) / The Army of the Omnipotent Almighty          | n.k.        | n.k.          | A      | Kashmir                            | Introduction of strict Sharia, Islamic dress code   |
| Ind/Pak | Lashkar-e-Toiba (LT) / Jama'at ud Dawa (JUD)                          | 1989        | 300           | A      | Jammu, Kashmir                     | Seeks restoration of Islamic rule in Ind; armed wing of Markaz-ud-Dawa-wal-Irshad (MDI)   |

Table 57 Selected Non-State Armed Groups

| Origin                           | Organisation * aka   | Estb.       | Est. Strength                        | Status | Operates                            | Aims and Remarks   |
|----------------------------------|--|-------------|--------------------------------------|--------|-------------------------------------|--|
| Ind/Pak                          | Save Kashmir Movement  | 2002        | 50                                   | A      | Jammu, Kashmir                      | Opposes Ind rule in Kashmir  |
| Ind/Pak                          | Tehrik-e Jihad   | 1997        | n.k.                                 | A      | Kashmir                             | Self-determination for Kashmir, Kashmir to join Pak  |
| N                                | Communist Party of Nepal (Maoist) / United People's Front  | late 1990's | 8–14,000; up to 200,000 sympathisers | A      | N                                   | Overthrow N's constitutional monarchy and replace with Maoist republic; declared 'People's War' in 1996; headed by 'Prachanda'; armed wing of Samyukta Jana Morcha (UPF) |
| N                                | Akhil Krantikari / All Nepal National Independent Students' Union (ANNISU-I)                                 | 2004        | n.k.                                 | A      | N                                   | Opposes N monarchy, seeks student action to reinstitute democracy; student wing of CPN-M   |
| Pak                              | Baluch Liberation Army (BLA)   | 2003        | n.k.                                 | A      | Pak                                 | Fights for the right of the Baluch people; separatist/Nationalist grp  |
| Pak                              | Baluch People's Liberation Front (BPLF) / Popular Front for Armed Resistance / Baluch Students' Organisation | 1963–76     | 3,000+                               | A      | Afg, Pak                            | Indp land for Baluchi Muslims; al-Qaeda members  |
| Pak                              | Haqiqi Muttahida Qaumi Movement (MQM-H)  | 1992        | n.k.                                 | A      | Pak                                 | Splinter faction from MQM-A, engineered by govt to act as counterweight to MQM-A, which it thought more of a threat  |
| Pak                              | Jama'at ul-Fuqra (JF) / Community of the Impoverished  | 1980        | 1,000–3,000                          | A      | Pak, N. America                     | 'Purify Islam through violence'  |
| Pak                              | Jund Allah / God's Brigade   | 2001–02     | 20+                                  | A      | Pak                                 | Islamist grp, implicated in assassinate attempt on President Musharraf   |
| Pak                              | Lashkar e-Jhangvi (LUJ)  | 1996        | 300                                  | A      | Pak                                 | Protect Sunni community from Shia extremism and terrorism  |
| Pak                              | Lashkar-e-Omar (LeO) / al-Qanoon   | 2001–02     | multiple cells 5–15 each             | A      | Pak                                 | Anti-US attacks in Pak region; conglomeration of HUJI, LeJ, JeM members; suspects in death of Daniel Pearl case  |
| Pak                              | Muttahida Qaumi Movement (MQM) / Muttahida Qaumi Movement-Altaf (MQM-A)                                      | 1984        | 3,000                                | A      | Pak                                 | Mohajir rights in Pak, more political power, improve socio-economic status; disputes over territory with MQM-H   |
| Pak                              | Sipah-e-Muhammad (SMP) / Army of Muhammad  | 1993        | 30,000 followers                     | A      | Punjab                              | Protect Shia community from Sunni extremism and terrorism; splinter of TJP   |
| Pak                              | Sipah-e-Sahaba (SSP) / Millat e Islamia Pakistan   | 1985        | 3–6,000                              | A      | Pak                                 | Sunni state in Pak, opposes Pak/US alliance; operates also as political party  |
| Pak                              | Tehrik-e-Jaferia   | 1992        | n.k.                                 | A      | Pak                                 | Create Islamic society, protect rights of Shia Muslims   |
| Ska                              | Liberation Tigers of Tamil Eelam (LTTE) / World Tamil Association / World Tamil Movement                     | 1972        | 8–11,000                             | C      | N. and E. Ska                       | Indp Tamil state; began armed conflict in 1983, on-going peace negotiations; poss commercial link with al-Qaeda; cease-fire with govt February 2002                      |
| Uz                               | Hizb ut-Tahrir / Islamic Party of Liberation   | 1952        | 5–10,000                             | A      | Uz, International                   | Estb Islamic Caliphate in C. Asia, jihad against US, its allies, and moderate Muslim regimes   |
| Uz                               | Islamic Jihad Group  | 2002        | n.k.                                 | A      | Uz                                  | Opposes secular rule, seeks estb of Islamic state  |
| Uz                               | Islamic Movement of Uzbekistan (IMU) / Islamic Movement of Turkistan (IMT)                                   | 1997        | 2,000+                               | A      | Arg, Ir, Kaz, Kg, Pak, Tjk, Uz, Tjk | Seeks creation of Fundamentalist Islamic state in Uz and across C. Asia; coalition of Islamic militants from Uz, other C. Asian states and PRC                           |
| <b>EAST ASIA AND AUSTRALASIA</b> |  |             |                                      |        |                                     |  |
| Aus                              | Name Unknown   | 2004        | 20+                                  | A      | Sydney, Melbourne                   | Spread radical Islam, target Westerners; led by Abu Bakr, several cells emulating al-Qaeda tactics and ideology, chemical capabilities                                   |
| Cam                              | Party of Democratic Kampuchea (Khmer Rouge)  | 1960        | 1–2,000                              | D      | Cam                                 | Destabilise the Cam govt   |

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Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka   | Estb.   | Est. Strength | Status | Operates                      | Aims and Remarks   |
|--------|--|---------|---------------|--------|-------------------------------|--|
| Indo   | Gerakan Aceh Merdeka (GAM) / Free Aceh Movement / Tentara Nasional Aceh (TNA)          | 1976    | 2,000         | C      | Aceh                          | Indp Islamic state in Aceh; Tentara Nasional Aceh is the armed wing, underground since 1996; GAM disarmed and TNI left Aceh under peace accords in Dec 2005  |
| Indo   | Jemaah Islamiyah (JI)  | 1993-94 | 500+          | A/D    | Indo, Mal, Pi, Th             | Estb an indp Islamic state encompassing Indo, Mal, S, Pi, S, Th; active faction Thoifah Muqatilah conducted 2005 Bali bombings                               |
| Indo   | Laskar Jihad   | 2000    | 500+          | D      | Maluku                        | Remove Christians from Maluku, Islamic state in Indo   |
| Indo   | Mujahideen KOMPAK  | 2001    | n.k.          | A      | Indo                          | Estb Islamic govt in Indo; JI splinter grp   |
| Indo   | Organisasi Papua Merdeka (OPM) / Free Papua Movement                                   | 1962    | 150           | A      | Indo                          | Independence for W. Papua  |
| Indo   | South Maluku Republic / Republik Maluku Selatan (RMS)                                  | 1998    | n.k.          | A      | E. Ind                        | Maluku indp; Christian separatist grp  |
| J      | Aum Supreme Truth / Aum Shinrikyo / Aleph  | 1987    | 1,500-2,000   | D      | J, Ru                         | 'Take over J and then the world'; released Sarin on Tokyo subway in 1995 and other chemical attacks in J   |
| J      | Chukaku-Ha / Kansai Revolutionary Army (KRA)   | 1957    | 3,500         | D      | J                             | Protests J's imperial system and Western 'imperialism'   |
| J      | Japanese Red Army / Anti-Imperialist International Brigade (AIIB)                      | 1970    | 30-40         | D      | J, RL                         | Overthrow the J govt and monarchy, help foment world revolution  |
| Lao    | United Lao National Liberation Front (ULNLF) / Lao National Liberation Movement (LNLN) | 1975    | 2,000         | A      | N. Lao                        | Overthrow current govt; pro-royalist right wing  |
| Lao    | Underground Government of the Free Democratic people of Laos                           | 2000    | n.k.          | A      | Lao                           | Supports democracy; anti-authoritarian, communist govt   |
| Mal    | Malaysian Mujahideen Group / Kumpulan Mujahideen Malaysia (KMIM)                       | 1995    | 90-100        | D      | Indo, Mal, Pi                 | Estb Muslim state comprising Indo, Mal and S. Pi; allegedly linked to JI   |
| My     | All Burma Students Democratic Front (ABSDF)  | 1988    | 2,000         | A      | My                            | 'Liberate Myanmar from dictatorship, establish democracy and transform into federal union'   |
| My     | Chin National Army (CNA) / Chin National Front   | 1988    | 800-1000      | A      | Chin state, W. My             | Overthrow My govt; armed wing of Chin National Front   |
| My     | Democratic Karen Buddhist Army (DKBA)  | 1994    | 100-500       | C      | My, Th                        | Independence for Karen minority, ongoing conflict with KNLA; splinter gp of Karen National Union (KNU), armed wing of Democratic Karen Buddhist Organisation |
| My     | Kachin Independence Army (KIA)   | 1961    | 8,000         | C      | Khmer range, N. My            | Promote Buddhism; armed wing of Kachin Independence Organisation   |
| My     | Karen National Liberation Army (KNLA)  | 1948    | 2-4,000       | A      | Th border                     | Estb Karen State with right to self-determination, ongoing conflict with DKBA; armed wing of KNU   |
| My     | Karenni National Progressive Party (KNPP)  | 1948    | 800-2,000     | A      | Kayah State, N. My            | Independence of Karenni State; armed wing of Karenni National Progressive Party  |
| My     | Kayin National Union (KNU) / Karen National Union                                      | 1959    | 5,000         | A      | My, Th                        | Indp homeland for the Karen people   |
| My     | Mon National Liberation Army (MNLA)  | 1958    | 1,000         | C      | Th border                     | Represent Mon minority; armed wing of New Mon State Party  |
| My     | Mong Thai Army (MTA)   | 1964    | 3,000         | C      | Th border                     | Protect Shan population  |
| My     | Myanmar National Democratic Alliance Army (MNDAA)                                      | 1989    | 1,000         | C      | E. Shan State, PRC-Lao border | Oppose My mil rule; formerly part of Communist Party of Burma (CPB)  |
| My     | Palaung State Liberation Army (PSLA)   | 1963    | 700           | C      | N. of Hsipaw                  | Greater autonomy for Palaung population  |

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| Origin                             | Organisation * aka   | Estb.   | Est. Strength | Status | Operates                   | Aims and Remarks   |
|------------------------------------|--|---------|---------------|--------|----------------------------|--|
| My                                 | Shan State Army (SSA) / Shan State Progress Army (SSPA)                                  | 1964    | 3,000         | C      | S. Shan State              | Freedom and democracy for Shan State   |
| My                                 | United Wa State Army (UWSA)  | 1989    | 15,000        | C      | Wa Hills                   | Splinter gp of CPB   |
| My                                 | Vigorous Burmese Student Warriors (VBSW)   | 1999    | n.k.          | A      | My, Th                     | Opposes military regime in My; anti-govt grp   |
| Pi                                 | Abu Sayyaf Group (ASG)   | 1991    | 450+          | A      | S. Pi                      | Indp Islamic state in west Mindanao and Sulu; split from MNLF; criminal intentions as strong as political ones   |
| Pi                                 | Bangsamoro Army  | 1972–73 | 15,000        | C      | S. Pi                      | Muslim separatist movement; armed wing of the Moro National Liberation Front   |
| Pi                                 | Kabataang Makabayan (KM) / Nationalist/Patriotic Youth                                   | 1964    | n.k.          | A      | Pi                         | Student wing of Communist Party of the Philippines   |
| Pi                                 | Moro Islamic Liberation Front (MILF)   | 1977    | 11,000+       | C      | S. Pi                      | Indp Islamic state in Bangsa Moro and neighbouring islands; split from MNLF (Cease-fire with govt Aug 2001)  |
| Pi                                 | Moro Islamic Reformist Group   | 1978    | 900           | A      | S. Pi                      | Indp Islamic state in south Pi; split from MNLF  |
| Pi                                 | New People's Army (NPA)  | 1969    | 11,500        | A      | Pi                         | Overthrow the Pi govt through guerilla warfare; armed wing of Communist Party of the Philippines   |
| PRC                                | East Turkestan Liberation Organisation (ETLO) and East Turkestan Islamic Movement (ETIM) | 1990    | 600           | A      | Kgz, N.W. PRC, C. Asia     | Estb separate E. Turkestan state for Uighur population; possible links to al-Qaeda and IMT   |
| Th                                 | Pattani Islamic Mujahideen Movement / Gerakan Mujahideen Islam Pattani (GMIP)            | 1995    | 20+           | A      | S. Th                      | Estb a Muslim state in S. Th   |
| Th                                 | Pattani United Liberation Organisation (PULO)  | 1968    | 100           | A      | Th                         | Fighting for the separation of Th's mainly Muslim south  |
| Th                                 | Runda Kumpulan Kecil (RKK)   | 2005    | 3000          | A      | S. Th                      | Indp state of Pattani  |
| Th                                 | United Front for the Independence of Pattani / Bersatu                                   | 1989    | 60+           | A      | Th                         | Estb an indp Islamic state in S. Th; umbrella grp including PULO, New PULO, and BRN  |
| Th/Mal                             | Barisan Revolusi Nasional (BRN)  | 1960    | 60–80         | A      | S. Th                      | Muslim separatist movement in Th   |
| <b>CARIBBEAN AND LATIN AMERICA</b> |  |         |               |        |                            |  |
| Chl                                | Manuel Rodríguez Patriotic Front Dissidents (FPMR-D)                                     | 1983    | 50–100        | D      | Chl                        | Communist party that sought to overthrow the regime of Augusto Pinochet; splinter grp continued violent campaign after 1989                                  |
| Co                                 | Autodefensas Unidas de Colombia (AUC)  | 1997    | 10,000        | A/C    | N. and N.W. Co             | Protect the Co govt from guerrilla movements; coordinating umbrella org for right-wing paramilitaries; close financial connections to drug cartels and elite |
| Co                                 | Ejército de Liberación Nacional (ELN)  | 1964    | 3,000         | A      | Bol, N., N.E., and S.W. Co | Anti-US Maoist-Marxist-Leninist' grp, equalise the rural poor by instituting popular democracy (peace talks with govt since 1999)                            |
| Co                                 | Ejército Popular de Liberación (EPL) / Popular Liberation Army                           | 1967    | 500           | A      | Co                         | Rid Co of US imperialism and indigenous oligarchies, creation of Communist state   |
| Co                                 | Ejército Revolucionario del Pueblo (ERP) / People's Revolutionary Army                   | 1990s   | 350           | A      | Co                         | Previously ELN faction, shares communist beliefs   |
| Co                                 | Fuerzas Armadas Revolucionarias de Colombia (FARC)                                       | 1964    | 12,000+       | A      | Co                         | Overthrow current democratic govt and replace with Communism; exerts controls over drug protection industry.   |

Table 57 Selected Non-State Armed Groups

| Origin                    | Organisation * aka  | Estb.      | Est. Strength | Status | Operates                             | Aims and Remarks  |
|---------------------------|---|------------|---------------|--------|--------------------------------------|---|
| Co                        | Ejército Revolucionario Guevarista (ERG)  | 1993       | 100           | A      | Antioquia, Choco, Risalda            | Socialist revolution; ELN faction   |
| Ec                        | Izquierda Revolucionaria Armada / Armed Revolutionary Left  | 2004       | n.k.          | A      | Ec                                   | Anti-govt; commercial and political targets   |
| Ec                        | People's Fighters Group / Grupos de Combatientes Populares (GCP)  | 1994       | n.k.          | A      | Ec                                   | Opposes govt's economic policies, Plan Colombia, oligarchs and 'traitors'; militant branch of Ec's Marxist-Leninist Communist Party   |
| Ec                        | People's Revolutionary Militias / Milicias Revolucionarias del Pueblo (MRP)   | n.k.       | n.k.          | A      | Ec                                   | Anti-globalisation, insurrection against current Ec govt, anti-US war in Iraq   |
| Mex                       | Los Zetas   | late 1990s | 100           | A      | Mex                                  | Control drug trade through Mex to US  |
| Pe                        | Movimiento Revolucionario Tupac Amaru (MRTA)  | 1983       | 100           | A/D    | Upper Huallaga river valley          | Estb Marxist regime and seeks to rid Pe of imperialist elements; less active since Pe govt's 1999 counter-terrorist ops   |
| Pe                        | Sendero Luminoso (SL) / Shining Path  | 1960s      | 500           | A      | Upper Huallaga and Ene river valleys | Estb peasant revolutionary regime in Pe based on communist ideals, control of coca-producing regions; less active since Pe govt's 2000 counter-terrorist ops  |
| RH                        | National Revolutionary Front for the Liberation of Haiti / Armée Cannibale / Revolutionary Artibonite Resistance Front (RARF) | 2003       | n.k.          | A      | RH                                   | Anti-Aristide, seeks to gain control of RH; informal alliance of Armée Cannibale, anti-govt gangs, and former soldiers of the disbanded Haiti army  |
| Ven                       | United Self-Defense Forces of Venezuela (AUV) / Las Autodefensas Unidas de Venezuela  | 2002       | n.k.          | A      | Tachira                              | Anti-leftist govt and Communism; Ven version of AUC   |
| <b>SUB-SAHARAN AFRICA</b> |   |            |               |        |                                      |   |
| Ang                       | Frente de Libertacao do Enclave de Cabinda – Forcas Armadas de Cabinda (FLEC-FAC)   | 1980s      | 300           | C      | Cabinda                              | Independence of Cabinda region; Split from FLEC in the 1980s  |
| Ang                       | Frente de Libertacao do Enclave de Cabinda – Renovada (FLEC-Renovada)   | 1980s      | 250           | C      | Cabinda                              | Independence of Cabinda region; split from FLEC in the 1980s  |
| Ang                       | União Nacional para a Independencia Total de Angola (UNITA)   | 1966       | 5,000         | C      | Ang, DROC, Nba                       | Strive for govt proportionally representative of all ethnic gps, clans and classes (peace agreement with govt April 2002)   |
| Bu                        | Forces pour la Défense de la Démocratie (FDD)   | 1994       | 16–20,000     | A      | Bu, DROC, W. Tz                      | Restore constitution and institutions set by 1993 elections and form national army; to be disarmed under Lusaka Peace Accord but continues attacks against Bu govt, believed involved in DROC conflict; armed wing of National Council for the Defence of Democracy |
| Bu                        | Parti pour la Libération du Peuple Hutu (Palipehutu) / Forces for National Liberation   | 1980       | 2–3,000       | A      | Bu, Tz borders                       | Liberate Hutus and estb ethnic quotas based on 1930s Be census; armed wing of Forces Nationales de Libération   |
| Cha                       | Mouvement pour la Démocratie et la Justice au Tchad (MDJT)  | 1998       | n.k.          | C      | Tibesti region, N. Cha               | Overthrow Cha govt (peace agreement with govt December 2003)  |
| Cha                       | The Platform for Change, Unity and Democracy (SCUD)   | 2005       | n.k.          | A      | E. Cha                               | Anti-govt, seeks to exert control over E. Cha   |
| CI                        | Forces Nouvelles  | 2003       | 20–26,000     | A      | Bouake, Man, Danane, N. CI           | Coalition of MPCJ, MPIGO and MJP  |
| CI                        | Front pour la Libération du Grand Ouest – The Front for the Liberation of the Great West (FLGO)                               | 2002       | 7,000         | A      | Guiglo, Toulepleu, W. CI             | Significant pro-Gbagbo militia  |



Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka  | Estb.  | Est. Strength           | Status | Operates                     | Aims and Remarks  |
|--------|---|--------|-------------------------|--------|------------------------------|---|
| CI     | Front pour la sécurité du Centre-Ouest – Front for the Security of the Centre-West (FSCO)   | 2002   | 14,000                  | A      | Gagnoa                       | Pro-President Gbagbo militia  |
| CI     | Groupe des patriotes pour la paix - The Group of Patriots for Peace (GPP) / Convention des Patriotes pour la Paix (CPP) / Front de Libération Nationale (FLN)   | 2002   | 6,000                   | A      | S. CI                        | Umbrella organisation made up of half a dozen pro-govt militias   |
| CI     | Mouvement patriotique de Côte d'Ivoire – Patriotic Movement of Côte d'Ivoire (MPCI)   | 2002   | 10,000                  | C      | Bouake, Korhogo, N and C. CI | Overthrow President Gbagbo; represents disgruntled soldiers and civilians, merged with Forces Nouvelles (cease-fire with govt October 2002)   |
| CI     | Mouvement populaire ivoirien du Grand Oeust – Ivorian Popular Movement for the Great West (MPIGO)   | 2002   | 2000, combined with MJP | C      | Binhouye, W. CI              | Avenge death of General Guei, defend the rights of the Yacouba ethnic grp; merged with Forces Nouvelles (Linass-Marcoussis peace agreement Jan 2003)  |
| CI     | Mouvement pour la justice et la paix - Movement for Justice and Peace (MJP)   | 2002   | 2,000                   | C      | Town of Man                  | Similar objectives to MPIGO; combined forces  |
| CI     | Union of Patriots for the Total Liberation of the Côte d'Ivoire (UPLTICI)   | 2003   | thousands               | A      | Abidjan, W. and S.W. CI      | Pro-govt militia; armed wing of the Convention of Patriots for Peace (CPP)  |
| CI     | Young Patriots (FESCI) / Union pour la libération totale de la Côte d'Ivoire / The Unions for the Total Liberation of Côte d'Ivoire (UPLTICI) / Congres panafricain des jeunes patriotes / Pan-African Congress of Young Patriots (COJEP) | n.k.   | 150,000                 | A      | Abidjan, S. CI               | Pro-govt; student membership consists of networks and political parties   |
| Dj     | Front pour la Restoration de l'Unité Nationale et de la Démocratie (FRUD)   | 1991   | hundreds                | C      | Dj                           | Represent Afar population of Dj and estb multi-party elections; following 1994 split, one faction signed agreement with govt to become legitimate political party, joined 1995 coalition govt |
| DROC   | Allied Democratic Forces (ADF)  | 1995   | 100+                    | A      | N.E. DROC, Uga               | Undermine Uga govt  |
| DROC   | Armed Forces of the Congolese People (FAPC)   | n.k.   | n.k.                    | C      | DROC                         | Split from UPC, has incorporated the Popular Front for Democracy in Congo (FPDC), elements from RCD-ML, APC   |
| DROC   | Mouvement de Libération Congolais (MLC)   | 1998   | 18,000                  | C      | N. DROC                      | 'Fight dictatorship in DROC'; first faction to break from RCD   |
| DROC   | Party for Unity and the Safeguard of the Integrity of Congo (PUSC)  | n.k.   | 2–5,000                 | C      | Ituri province               | Hema militia supporting Hema against Lendu in DROC's ethnic conflict  |
| DROC   | Patriotic Resistance Forces in Ituri (FRPI)   | n.k.   | 5,000                   | C      | DROC                         | Armed wing of Nationalist Integrationist Front (FNI), primarily Lendu   |
| DROC   | Rassemblement Congolais pour la Démocratie – Mouvement de Libération (RCD–ML)   | 1999   | 2–3,000                 | A      | DROC                         | Overthrow DROC govt   |
| DROC   | Rassemblement Congolais pour la Démocratie – Goma (RCD–GOMA)  | 1998   | 20,000                  | A      | DROC                         | Estb democracy in DROC  |
| DROC   | Union of Congolese Patriots (UPC)   | n.k.   | n.k.                    | C      | Ituri province               | Seek to preserve Hema political advantages over the majority Lendu and wants Hema share of resources in Ituri; now part of transitional govt  |
| Er     | Alliance of Eritrean National Forces (AENF)   | 1999   | 3,000                   | A      | Er                           | Overthrow Er govt; coalition of Er armed gps  |
| Er     | Eritrean Islamic Jihad / Islamic Salvation Movement (EIJM)  | 1990's | hundreds                | A      | Er, Eth, Sdn                 | Overthrow Er govt, estb new govt based on Islamic law; conglomerate of many grps  |
| Eth    | Ogaden National Liberation Army (ONLA)  | 1984   | n.k.                    | A      | Eth                          | Restore rights of Ogaden population and obtain right to self-determination; armed wing of ONLF  |

Non-State  
Armed Groups

Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka  | Estb.       | Est. Strength | Status | Operates                      | Aims and Remarks  |
|--------|---|-------------|---------------|--------|-------------------------------|---|
| Gam    | Green Boys / 22 July Movement   | 1994        | n.k.          | A      | Bajnul                        | Pro-govt activists; affiliated with the Alliance for Patriotic Reorientation and Construction   |
| GuB    | Military junta/ Mané followers  | 1998        | 200           | D      | Along the border with Senegal | Anti-govt; composed of national armed forces members  |
| Gui    | Guinean dissidents / Movement of the Democratic Forces of Guinea (RFDG)   | 2000        | 1,000         | A      | Gui                           | Anti-Gui govt; fought with SL and Lb during 2000 border confrontation   |
| Gui    | Movement of the Democratic Forces of Guinea (RFDG) / Rassemblement des forces démocratique de Guinée  | late 1990's | 1,800         | D      | S. Gui                        | Anti-govt; possibly composed of ex-army officers  |
| Gui    | Young Volunteers  | 2000        | 10,000        | A      | Gui                           | Pro-govt; previously countered the 2000-01 attacks by RFDG, SL's RUF and Liberian fighters; several have been disarmed and reintegrated                             |
| Lb     | Former Government of Liberia (GoL) militias and para-militaries   | 1997        | 15,000        | A      | Lb                            | Defended Charles Taylor govt after the 1997 elections; uses RUF child soldiers  |
| Lb     | Liberians United for Reconciliation and Democracy (LURD)  | 2000        | 3-8,000       | A      | Lofa county, N.W. Lb          | Against Charles Taylor's govt; dissatisfied with 1997 Abuja Peace Accords process; officially disbanded in Nov 2004, but remains an organised force                 |
| Lb     | Movement for Democracy in Liberia (MODEL)   | 2003        | 1-5,000       | C      | CI border, E. and S.E. Lb     | Overthrow of Charles Taylor's govt.; currently disarming but still organised  |
| Lb     | Revolutionary United Front (RUF)  | 1991        | n.k.          | C      | Lb, SL                        | Overthrow SL govt (cease-fire with govt Nov 2000, disarmament programme completed Jan 2002)   |
| Nga    | Al Sunna Wal Jamma  | 2002        | 200           | A      | Nga                           | Estb an Islamic state in Nga; strong university student membership  |
| Nga    | Arewa People's Congress (APC)   | 1999        | n.k.          | A      | N. Nga                        | Defend the rights of the Hausa-Fulani tribe, terminate violence from S. Nga   |
| Nga    | Bakassi Boys / Anambra State Vigilante Service (AVS) / Abia State Vigilante Service (AVS) / Imo State Vigilante Service (IVS) / ASMATA Boys | 1999        | n.k.          | D      | S.E. Nga                      | Aimed to terminate violence by 'Maf' (mafia); emerged from several grips in Abia state, formed in response to robberies, violence and intimidation by 'Maf' (mafia) |
| Nga    | Egbesu Boys of Africa (EBA)   | late 1990s  | thousands     | D      | Ijaw regions                  | Promote Ijaw interests and assert control over oil company policies and wealth in Niger Delta; suspected armed wing of Ijaw Youth Council                           |
| Nga    | Federated Niger Delta Ijaw Communities (FNDIC)  | 1997        | 3,000         | A      | S.E. Nga                      | Protect Ijaw interests and benefits; redistribute oil revenues  |
| Nga    | Hisba / Hisbah Groups   | 2001        | n.k.          | A      | Nga                           | Full implementation of Sharia law in states that adopted it, esp. N. Nga  |
| Nga    | Movement for the Actualisation of the Sovereign State of Biafra (MASSOB)  | 1999        | thousands     | A      | S.E. Nga                      | Secession of Biafra   |
| Nga    | Niger Delta People's Volunteer Force (NDPVF)  | 2003        | n.k.          | A      | Rivers state around Buguma    | Seeks increase in oil revenues and employment of local youths   |
| Nga    | Niger Delta Vigilante (NDV)   | 1998/2003   | n.k.          | A      | Rivers state                  | Similar objectives to other Niger Delta forces  |
| Nga    | Niger Delta Volunteer Force (NDVF)  | 1980s       | thousands     | A/D    | Niger Delta                   | Seeks increase in oil profits and employment of local youths  |
| Nga    | Odua People's Congress (OPC)  | 1994        | 4000          | A      | S.W. Nga                      | Indp for the Yoruba people of S.W. Nga, protect the interests of the Yoruba ethnic grip   |

Table 57 Selected Non-State Armed Groups

| Origin    | Organisation * aka  | Estb.       | Est. Strength  | Status | Operates                  | Aims and Remarks   |
|-----------|---|-------------|----------------|--------|---------------------------|--|
| Nga       | Zamfara State Vigilante Service (ZSVS)  | 1999        | 6-person teams | A      | Zamfara state             | Strict adherence to Islamic law, conducts arrests of violators   |
| Ngr       | Iduwini Youths  | 2004        | n.k.           | A      | S. Ngr                    | Opposes exploitation of environment; Iduwini advocacy grp, armed wing of Iduwini National Movement for Peace and Development (INMPD)                     |
| Ngr       | Movement for the Emancipation of the Niger Delta (MEND)   | 2006        | 100+           | A      | Ngr Delta                 | Intimidate oil companies, seeks local redistribution of revenues, opposes the reelection of President Obasanjo   |
| Ngr       | Tuareg and Toubou rebel groups / Union des forces de la résistance armée (UFRA) / Union of Armed Resistance Forces / Forces armées révolutionnaires du Sahara (FARS) / Revolutionary Armed Forces of the Sahara / Front Démocrata | 1992        | 7,000          | D      | Ngr                       | Anti-peace agreements; split into 13 different grps  |
| RMM       | Patriotic Movement of Ganda Koy (MPGK)  | 1994        | n.k.           | A      | RMM                       | Against displacement of indigeneous in S by Ners, anti MFUA  |
| RMM       | United Movement and Fronts of Azawad (MFUA)   | early 1990s | 3–10,000       | A      | N.E. RMM                  | Umbrella grp of Arab and Tuareg anti-govt rebels   |
| RSA       | People Against Gangsterism and Drugs (PAGAD)  | 1995        | 50             | A      | Cape Town area            | Combat and eradicate crime, gangsterism and drugs; anti-Western, views RSA govt as threat to Muslim values   |
| RSA       | Qibla   | 1980s       | 300            | A      | Cape Town area            | Estb an Islamic state in RSA; allied to PAGAD  |
| Rwa       | Forces Démocratiques pour la Libération du Rwanda (FDLR) / Armie pour la libération du Rwanda (ALIR)  | 2000        | 3,000+         | A      | South Kivu, Katanga, DROC | Reinstate Hutu control of Rwa; ALIR superseded by FDLR in 2001, consists of survivors of genocide in DROC by the Rwandan Patriotic Army (RPA) in 1996–97 |
| Rwa / DRC | Mai-Mai Militia / Alliance pour la Résistance Démocratique (ARD) / Popular Self-Defence Forces (FAP)  | 1997        | n.k.           | A      | DRC, Rw                   | Protect DRC from foreign influence; indigenous militia aligned with the FDLR, unwilling to be part of coalition govt                                     |
| Sdn       | Janjaweed Militias  | 2002–03     | 20,000         | A      | W. Sdn                    | Janjaweed is a generic term for tribal Arab militias displacing the African population of Darfur   |
| Sdn       | Justice and Equality Movement (JEM)   | 2002–03     | thousands      | A      | Darfur                    | Defence of Darfur population, protests regional under-development  |
| Sdn       | New Sudan Brigade   | 1995        | 2,000          | A      | E. Sdn                    | Eastern branch of SPLA   |
| Sdn       | Sudan Alliance Forces   | 1994        | 500            | A      | E. Sdn                    | Overthrow Sdn govt and establish progressive and secular democracy; played major role in opening new war front in east since 1997                        |
| Sdn       | Sudan Liberation Movement / Army (SLM/A)  | 2003        | thousands      | C      | Darfur                    | Defence of the African population of Darfur, self determination for Darfur, democracy in Sdn   |
| Sdn       | Sudan People's Liberation Army (SPLA)   | 1983        | 20,000–30,000  | C      | S. Sdn                    | Secular and democratic Sdn; armed wing of Sudan People's Liberation Movement (SPLM) (cease-fire with govt July 2002, recreated as police)                |
| Sdn       | The Beja Congress   | 1993        | 500            | A      | E. Sdn                    | Overthrow Sdn govt and estb autonomous Beja state; controls area of eastern Sdn centred around Garoura and Hamshkorab                                    |
| Sen       | Mouvement des Forces Démocratiques de Casamance (MFDC) / Movement of the Democratic Forces of Casamance   | 1982        | 2–4,000        | C      | Sen, close to GuB, Gam    | Indp Casamance; involved in peace talks with govt since 2000; military wing factionalised into Front Sud and Front Nord                                  |
| SL        | Armed Forces Revolutionary Council (AFRC)   | 1997        | n.k.           | D      | Freetown                  | Disaffected members of the armed forces, estb during coup d'état   |

Non-State  
Armed Groups

Table 57 Selected Non-State Armed Groups

| Origin | Organisation * aka  | Estb.  | Est. Strength | Status | Operates  | Aims and Remarks  |
|--------|---|--------|---------------|--------|---|---|
| SL     | Civil Defence Force (CDF)                                     | 1990's | 37,000+       | C      | SL  | Defence of tribal communities against RUF and govt  |
| SL     | Independent RUF (RUF-I)                                       | 2002   | 500           | C      | Lb border   | Against cease-fire signed between other grps and govt in Jan 2002; split from RUF in 2002   |
| SL     | Revolutionary United Front (RUF)                              | 1980s  | 20,000        | D      | Gui, Lb, SL   | Overthrow SL govt (cease-fire with govt Nov 2000, became pol party, Disarmament programme completed Jan 2002)   |
| SL     | West Side Boys (WSB)  | n.k.   | hundreds      | D      | Rokel Creek area near Occra Hills in Port Loko district | Members included former SL Army members; conducted armed robberies and attacks  |
| SR     | Al-Ittihad al-Islami (AIAI)                                   | 1992   | 2,000         | A      | Eth, Kya, SR  | Estb an Islamic regime in SR and Eth  |
| SR     | Rahanweyn Resistance Army (RRA)                               | 1996   | n.k.          | A      | S. SR   | Local autonomy; allied to SDM   |
| SR     | Somali Democratic Movement (SDM)                              | 1992   | n.k.          | A      | S. SR   | Local autonomy; allied to RRA   |
| SR     | Somali National Alliance (SNA) / United Somali Congress (USC) | 1989   | n.k.          | A      | S. Mogadishu  | Militia of the Hawiye clan, led by Aideed family; overthrew Siad Barre, struggles for political power   |
| SR     | Somali National Front (SNF)                                   | 1991   | 2-3,000       | A      | SR  | Marehans fighting for control of S. Gedo region bordering Kya, pro-Siad Barre   |
| SR     | Somali National Movement (SNM)                                | 1982   | 5,000+        | A      | N. SR   | Independence of Somaliland  |
| SR     | Somali Patriotic Movement (SPM)                               | 1989   | 2-3,000       | A      | SR  | Ogaden tribal militia that helped overthrow Barre govt  |
| SR     | Somali Salvation Democratic Front (SSDF)                      | 1978   | 3,000         | A      | N.E. SR   | Independence of Puntland  |
| SR     | United Somali Congress Ali Mahdi Faction                      | 1990's | 10,000        | A      | N. SR   | Anti Aideed, Abgal clan militia   |
| Uga    | Allied Democratic Front / Uganda Allied Democratic Army       | 1996   | 200           | A      | W. Uga  | Replace Uga govt with regime based on Sharia law  |
| Uga    | Lord's Resistance Army (LRA)                                  | 1989   | 1500+         | A      | Gulu and Kitgum districts, Sdn                          | 'Rule Uga according to biblical ten commandments and create Great Nile Republic in northern Uga'; Christian fundamentalist, extensive use of child soldiers |
| Uga    | West Nile Bank Front (WNBF)                                   | 1995   | 1,000         | C/D    | DRC, Uga  | Anti govt grp dominated by West Nile tribes and former army officers under Idi Amin   |

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## PART THREE

# Reference

**Table 58 Designations of Aircraft**

### NOTES

- 1 [Square brackets] indicate the type from which a variant was derived: 'Q-5 ... [MiG-19]' indicates that the design of the Q-5 was based on that of the MiG-19.
- 2 (Parentheses) indicate an alternative name by which an aircraft is known, sometimes in another version: 'L-188 ... *Electra* (P-3 Orion)' shows that in another version the Lockheed Type 188 *Electra* is known as the P-3 Orion.

- 3 Names given in 'quotation marks' are NATO reporting names, e.g., 'Su-27...' *"Flanker"*.
- 4 When no information is listed under 'Country of origin' or 'Maker', the primary reference given under 'Name/designation' should be looked up under 'Type'.
- 5 For country abbreviations, see 'Index of Countries and Territories' (p. 446).

| Type              | Name/designation      | Country of origin/Maker               |
|-------------------|-----------------------|---------------------------------------|
| <b>Fixed-wing</b> |                       |                                       |
| <b>A-1</b>        | AMX                   | <b>Br/It</b> AMX                      |
| <b>A-1</b>        | <i>Ching-Kuo</i>      | <b>ROC</b> AIDC                       |
| <b>A-3</b>        | <i>Skywarrior</i>     | <b>US</b> Douglas                     |
| <b>A-4</b>        | <i>Skyhawk</i>        | <b>US</b> MD                          |
| <b>A-5</b>        | (Q-5)                 |                                       |
| <b>A-7</b>        | <i>Corsair II</i>     | <b>US</b> LTV                         |
| <b>A-10</b>       | <i>Thunderbolt</i>    | <b>US</b> Fairchild                   |
| <b>A-36</b>       | <i>Halcón</i> (C-101) |                                       |
| <b>A-37</b>       | <i>Dragonfly</i>      | <b>US</b> Cessna                      |
| <b>A-50</b>       | 'Mainstay' (Il-76)    | <b>RF</b> Beriev                      |
| <b>A300</b>       |                       | <b>UK/Fr/Ge/Sp</b> Airbus Int         |
| <b>A310</b>       |                       | <b>UK/Fr/Ge/Sp</b> Airbus Int         |
| <b>A340</b>       |                       | <b>UK/Fr/Ge/Sp</b> Airbus Int         |
| <b>AC-47</b>      | (C-47)                |                                       |
| <b>AC-130</b>     | (C-130)               |                                       |
| <b>Air Beetle</b> |                       | <b>Nga</b> AIEP                       |
| <b>Airtourer</b>  |                       | <b>NZ</b> Victa                       |
| <b>AJ-37</b>      | (J-37)                |                                       |
| <b>Alizé</b>      | (Br 1050)             | <b>Fr</b> Breguet                     |
| <b>Alpha Jet</b>  |                       | <b>Fr/Ge</b> Dassault-Breguet/Dornier |
| <b>AMX</b>        |                       | <b>Br/It</b> Embraer/Alenia/Aermacchi |
| <b>An-2</b>       | 'Colt'                | <b>Ukr</b> Antonov                    |
| <b>An-12</b>      | 'Cub'                 | <b>Ukr</b> Antonov                    |
| <b>An-14</b>      | 'Clod' (Pchylka)      | <b>Ukr</b> Antonov                    |
| <b>An-22</b>      | 'Cock' (Antei)        | <b>Ukr</b> Antonov                    |
| <b>An-24</b>      | 'Coke'                | <b>Ukr</b> Antonov                    |
| <b>An-26</b>      | 'Curl'                | <b>Ukr</b> Antonov                    |
| <b>An-28/M-28</b> | 'Cash'                | <b>Ukr</b> Antonov/ <b>PI</b> PZL     |
| <b>An-30</b>      | 'Clank'               | <b>Ukr</b> Antonov                    |
| <b>An-32</b>      | 'Cline'               | <b>Ukr</b> Antonov                    |
| <b>An-72</b>      | 'Coaler-C'            | <b>Ukr</b> Antonov                    |
| <b>An-74</b>      | 'Coaler-B'            | <b>Ukr</b> Antonov                    |
| <b>An-124</b>     | 'Conдор' (Ruslan)     | <b>Ukr</b> Antonov                    |
| <b>Andover</b>    | [HS-748]              |                                       |
| <b>Arava</b>      |                       | <b>II</b> IAI                         |
| <b>AS-202</b>     | <i>Bravo</i>          | <b>CH</b> FFA                         |
| <b>AT-3</b>       | <i>Tsu Chiang</i>     | <b>ROC</b> AIDC                       |
| <b>AT-6</b>       | (T-6)                 |                                       |

| Type               | Name/designation                      | Country of origin/Maker    |
|--------------------|---------------------------------------|----------------------------|
| <b>AT-11</b>       |                                       | <b>US</b> Beech            |
| <b>AT-26</b>       | EMB-326                               |                            |
| <b>AT-33</b>       | (T-33)                                |                            |
| <b>Atlantic</b>    | (Atlantique)                          | <b>Fr</b> Dassault-Breguet |
| <b>AU-23</b>       | <i>Peacemaker</i> [PC-6B]             | <b>US</b> Fairchild        |
| <b>AV-8</b>        | <i>Harrier II</i>                     | <b>US/UK</b> MD/BAe        |
| <b>Aztec</b>       | PA-23                                 | <b>US</b> Piper            |
| <b>B-1</b>         | <i>Lancer</i>                         | <b>US</b> Rockwell         |
| <b>B-2</b>         | <i>Spirit</i>                         | <b>US</b> Northrop Grumman |
| <b>B-5</b>         | H-5                                   |                            |
| <b>B-6</b>         | H-6                                   |                            |
| <b>B-52</b>        | <i>Stratofortress</i>                 | <b>US</b> Boeing           |
| <b>B-65</b>        | <i>Queen Air</i>                      | <b>US</b> Beech            |
| <b>BAC-167</b>     | <i>Strikemaster</i>                   | <b>UK</b> BAe              |
| <b>BAe-125</b>     |                                       | <b>UK</b> BAe              |
| <b>BAe-146</b>     |                                       | <b>UK</b> BAe              |
| <b>BAe-748</b>     | (HS-748)                              | <b>UK</b> BAe              |
| <b>Baron</b>       | (T-42)                                |                            |
| <b>Basler T-67</b> | (C-47)                                | <b>US</b> Basler           |
| <b>Be-6</b>        | 'Madge'                               | <b>RF</b> Beriev           |
| <b>Be-12</b>       | 'Mail' (Tchaika)                      | <b>RF</b> Beriev           |
| <b>Beech 50</b>    | <i>Twin Bonanza</i>                   | <b>US</b> Beech            |
| <b>Beech 95</b>    | <i>Travel Air</i>                     | <b>US</b> Beech            |
| <b>BN-2</b>        | <i>Islander, Defender, Trislander</i> | <b>UK</b> Britten-Norman   |
| <b>Boeing 707</b>  |                                       | <b>US</b> Boeing           |
| <b>Boeing 727</b>  |                                       | <b>US</b> Boeing           |
| <b>Boeing 737</b>  |                                       | <b>US</b> Boeing           |
| <b>Boeing 747</b>  |                                       | <b>US</b> Boeing           |
| <b>Boeing 757</b>  |                                       | <b>US</b> Boeing           |
| <b>Boeing 767</b>  |                                       | <b>US</b> Boeing           |
| <b>Bonanza</b>     |                                       | <b>US</b> Beech            |
| <b>Bronco</b>      | (OV-10)                               |                            |
| <b>BT-5</b>        | HJ-5                                  |                            |
| <b>Bulldog</b>     |                                       | <b>UK</b> BAe              |
| <b>C-1</b>         |                                       | <b>J</b> Kawasaki          |
| <b>C-2</b>         | <i>Greyhound</i>                      | <b>US</b> Grumman          |
| <b>C-5</b>         | <i>Galaxy</i>                         | <b>US</b> Lockheed         |
| <b>C-7</b>         | DHC-7                                 |                            |
| <b>C-9</b>         | <i>Nightingale</i> (DC-9)             |                            |

| Type             | Name/designation                                      | Country of origin/Maker     |
|------------------|---|-----------------------------|
| <b>C-12</b>      | <i>Super King Air (Huron)</i> .....                   | <b>US</b> Beech             |
| <b>C-17</b>      | <i>Globemaster III</i> .....                          | <b>US</b> McDonnell Douglas |
| <b>C-18</b>      | [Boeing 707] .....                                    |                             |
| <b>C-20</b>      | (Gulfstream III) .....                                |                             |
| <b>C-21</b>      | (Learjet) .....                                       |                             |
| <b>C-22</b>      | (Boeing 727) .....                                    |                             |
| <b>C-23</b>      | (Sherpa) .....  | <b>UK</b> Shorts            |
| <b>C-26</b>      | <i>Expediter/Merlin</i> .....                         | <b>US</b> Fairchild         |
| <b>C-27</b>      | <i>Spartan</i> .....                                  | <b>It</b> Alenia            |
| <b>C-32</b>      | [Boeing 757] .....                                    | <b>US</b> Boeing            |
| <b>C-37A</b>     | [Gulfstream V] .....                                  | <b>US</b> Gulfstream        |
| <b>C-38A</b>     | (Astra) .....   | <b>II</b> IAI               |
| <b>C-42</b>      | (Neiva Regente) .....                                 | <b>Br</b> Embraer           |
| <b>C-46</b>      | <i>Commando</i> .....                                 | <b>US</b> Curtis            |
| <b>C-47</b>      | DC-3 ( <i>Dakota</i> ) (C-117 <i>Skytrain</i> ) ..... | <b>US</b> Douglas           |
| <b>C-54</b>      | <i>Skymaster</i> (DC-4) .....                         | <b>US</b> Douglas           |
| <b>C-91</b>      | HS-748 .....  |                             |
| <b>C-93</b>      | HS-125 .....  |                             |
| <b>C-95</b>      | EMB-110 .....   |                             |
| <b>C-97</b>      | EMB-121 .....   |                             |
| <b>C-101</b>     | <i>Aviojet</i> .....                                  | <b>Sp</b> CASA              |
| <b>C-115</b>     | DHC-5 .....   | <b>Ca</b> De Havilland      |
| <b>C-117</b>     | (C-47) .....  |                             |
| <b>C-118</b>     | <i>Liftmaster</i> (DC-6) .....                        |                             |
| <b>C-123</b>     | <i>Provider</i> .....                                 | <b>US</b> Fairchild         |
| <b>C-127</b>     | (Do-27) .....   | <b>Sp</b> CASA              |
| <b>C-130</b>     | <i>Hercules</i> (L-100) .....                         | <b>US</b> Lockheed          |
| <b>C-131</b>     | Convair 440 .....                                     | <b>US</b> Convair           |
| <b>C-135</b>     | [Boeing 707] .....                                    |                             |
| <b>C-137</b>     | [Boeing 707] .....                                    |                             |
| <b>C-140</b>     | ( <i>Jetstar</i> ) .....                              | <b>US</b> Lockheed          |
| <b>C-141</b>     | <i>Starlifter</i> .....                               | <b>US</b> Lockheed          |
| <b>C-160</b>     | <i>Transall</i> .....                                 | <b>Fr/Ge</b> EADS           |
| <b>C-212</b>     | <i>Aviocar</i> .....                                  | <b>Sp</b> CASA              |
| <b>C-235</b>     | <i>Persuader</i> .....                                | <b>Sp/Indo</b> CASA/Airtech |
| <b>C-295M</b>    | .....   | <b>Sp</b> CASA              |
| <b>Canberra</b>  | .....   | <b>UK</b> BAe               |
| <b>CAP-10</b>    | .....   | <b>Fr</b> Mudry             |
| <b>CAP-20</b>    | .....   | <b>Fr</b> Mudry             |
| <b>CAP-230</b>   | .....   | <b>Fr</b> Mudry             |
| <b>Caravelle</b> | SE-210 .....  | <b>Fr</b> Aérospatiale      |
| <b>CC-115</b>    | DHC-5 .....   |                             |
| <b>CC-117</b>    | ( <i>Falcon 20</i> ) .....                            |                             |
| <b>CC-132</b>    | (DHC-7) .....   |                             |
| <b>CC-137</b>    | (Boeing 707) .....                                    |                             |
| <b>CC-138</b>    | (DHC-6) .....   |                             |
| <b>CC-144</b>    | CL-600/-601 .....                                     | <b>Ca</b> Canadair          |
| <b>CF-5a</b>     | .....   | <b>Ca</b> Canadair          |
| <b>CF-18</b>     | F/A-18 .....  |                             |
| <b>CH-2000</b>   | <i>Sama</i> .....                                     | <b>HKJ/JAI</b>              |
| <b>Cheetah</b>   | [ <i>Mirage III</i> ] .....                           | <b>RSA</b> Atlas            |
| <b>Cherokee</b>  | PA-28 .....   | <b>US</b> Piper             |
| <b>Cheyenne</b>  | PA-31T [ <i>Navajo</i> ] .....                        | <b>US</b> Piper             |
| <b>Chieftain</b> | PA-31-350 [ <i>Navajo</i> ] .....                     | <b>US</b> Piper             |

| Type              | Name/designation                              | Country of origin/Maker  |
|-------------------|---|--------------------------|
| <b>Ching-Kuo</b>  | A-1 .....                                     | <b>ROC</b> AIDC          |
| <b>Citabria</b>   | .....   | <b>US</b> Champion       |
| <b>Citation</b>   | (T-47) .....                                  | <b>US</b> Cessna         |
| <b>CJ-5</b>       | [Yak-18] .....                                | <b>PRC</b> NAMC (Hongdu) |
| <b>CJ-6</b>       | [Yak-18] .....                                | <b>PRC</b> NAMC (Hongdu) |
| <b>CL-215</b>     | .....   | <b>Ca</b> Canadair       |
| <b>CL-415</b>     | .....   | <b>Ca</b> Canadair       |
| <b>CL-600/604</b> | <i>Challenger</i> .....                       | <b>Ca</b> Canadair       |
| <b>CM-170</b>     | <i>Magister</i> [Tzukit] .....                | <b>Fr</b> Aérospatiale   |
| <b>CM-175</b>     | <i>Zéphyr</i> .....                           | <b>Fr</b> Aérospatiale   |
| <b>CN-212</b>     | .....   | <b>Sp/Indo</b> CASA/IPTN |
| <b>CN-235</b>     | .....   | <b>Sp/Indo</b> CASA/IPTN |
| <b>Cochise</b>    | T-42 .....                                    |                          |
| <b>Comanche</b>   | PA-24 .....                                   | <b>US</b> Piper          |
| <b>Commander</b>  | <i>Aero-/TurboCommander</i> .....             | <b>US</b> Rockwell       |
| <b>Commodore</b>  | MS-893 .....                                  | <b>Fr</b> Aérospatiale   |
| <b>CP-3</b>       | P-3 <i>Orion</i> .....                        |                          |
| <b>CP-140</b>     | <i>Aurora</i> (P-3 <i>Orion</i> ) .....       | <b>US</b> Lockheed       |
| <b>Acturas</b>    |   |                          |
| <b>CT-4</b>       | <i>Airtrainer</i> .....                       | <b>NZ</b> Victa          |
| <b>CT-114</b>     | CL-41 <i>Tutor</i> .....                      | <b>Ca</b> Canadair       |
| <b>CT-133</b>     | <i>Silver Star</i> [T-33] .....               | <b>Ca</b> Canadair       |
| <b>CT-134</b>     | <i>Musketeer</i> .....                        |                          |
| <b>CT-156</b>     | <i>Harvard II</i> .....                       | <b>US</b> Beech          |
| <b>Dagger</b>     | ( <i>Nesher</i> ) .....                       |                          |
| <b>Dakota</b>     | .....   | <b>US</b> Piper          |
| <b>Dakota</b>     | (C-47) .....                                  |                          |
| <b>DC-3</b>       | (C-47) .....                                  | <b>US</b> Douglas        |
| <b>DC-4</b>       | (C-54) .....                                  | <b>US</b> Douglas        |
| <b>DC-6</b>       | (C-118) .....                                 | <b>US</b> Douglas        |
| <b>DC-7</b>       | .....   | <b>US</b> Douglas        |
| <b>DC-8</b>       | .....   | <b>US</b> Douglas        |
| <b>DC-9</b>       | .....   | <b>US</b> MD             |
| <b>Deepak</b>     | (HPT-32) .....                                |                          |
| <b>Defender</b>   | BN-2 .....                                    |                          |
| <b>DHC-3</b>      | <i>Otter</i> .....                            | <b>Ca</b> DHC            |
| <b>DHC-4</b>      | <i>Caribou</i> .....                          | <b>Ca</b> DHC            |
| <b>DHC-5</b>      | <i>Buffalo</i> .....                          | <b>Ca</b> DHC            |
| <b>DHC-6</b>      | <i>Twin Otter</i> , CC-138 .....              | <b>Ca</b> DHC            |
| <b>DHC-7</b>      | <i>Dash-7</i> ( <i>Ranger</i> , CC-132) ..... | <b>Ca</b> DHC            |
| <b>DHC-8</b>      | .....   | <b>Ca</b> DHC            |
| <b>Dimona</b>     | H-36 .....                                    | <b>Ge</b> Hoffman        |
| <b>Do-27</b>      | (C-127) .....                                 | <b>Ge</b> Dornier        |
| <b>Do-28</b>      | <i>Sky servant</i> .....                      | <b>Ge</b> Dornier        |
| <b>Do-128</b>     | .....   | <b>Ge</b> Dornier        |
| <b>Do-228</b>     | .....   | <b>Ge</b> Dornier        |
| <b>E-2</b>        | <i>Hawkeye</i> .....                          | <b>US</b> Grumman        |
| <b>E-3</b>        | <i>Sentry</i> .....                           | <b>US</b> Boeing         |
| <b>E-4</b>        | [Boeing 747] .....                            | <b>US</b> Boeing         |
| <b>E-6</b>        | <i>Mercury</i> [Boeing 707] .....             | <b>US</b> Boeing         |
| <b>E-26</b>       | T-35A ( <i>Tamiz</i> ) .....                  | <b>Chl</b> Enear         |
| <b>EA-3</b>       | [A-3] .....                                   |                          |
| <b>EA-6</b>       | <i>Prowler</i> [A-6] .....                    |                          |
| <b>EC-130</b>     | [C-130] .....                                 |                          |

| Type                           | Name/designation   | Country of origin/Maker        | Type                | Name/designation                       | Country of origin/Maker       |
|--------------------------------|--|--------------------------------|---------------------|--|-------------------------------|
| <b>EC-135</b>                  | [Boeing 707] .....                                       |                                | <b>G-222</b>        | .....                                  | <b>It</b> Alenia              |
| <b>EF-111</b>                  | <i>Raven</i> (F-111) .....                               | <b>US</b> General Dynamic      | <b>Galaxy</b>       | C-5 .....                              |                               |
| <b>Electra</b>                 | (L-188) .....  |                                | <b>Galeb</b>        | .....                                  | <b>FRY</b> SOKO               |
| <b>EMB-110</b>                 | <i>Bandeirante</i> .....                                 |                                | <b>Genet</b>        | SF-260W .....                          |                               |
| <b>EMB-111</b>                 | <i>Maritime Bandeirante</i> .....                        | <b>Br</b> Embraer              | <b>GU-25</b>        | ( <i>Falcon 20</i> ) .....             |                               |
| <b>EMB-120</b>                 | <i>Brasília</i> .....                                    | <b>Br</b> Embraer              | <b>Guerrier</b>     | R-235 .....                            |                               |
| <b>EMB-121</b>                 | <i>Xingu</i> .....                                       | <b>Br</b> Embraer              | <b>Gulfstream</b>   | .....                                  | <b>US</b> Gulfstream Aviation |
| <b>EMB-145</b>                 | (R-99A/-99B) .....                                       | <b>Br</b> Embraer              | <b>Gumhuria</b>     | ( <i>Bücker 181</i> ) .....            | <b>Et</b> Heliopolis          |
| <b>EMB-201</b>                 | <i>Ipanema</i> .....                                     | <b>Br</b> Embraer              | <b>H-5</b>          | [I1-28] .....                          | <b>PRC</b> HAF                |
| <b>EMB-312</b>                 | <i>Tucano</i> .....                                      | <b>Br</b> Embraer              | <b>H-6</b>          | [Tu-16] .....                          | <b>PRC</b> XAC                |
| <b>EMB-314</b>                 | <i>Super Tucano</i> .....                                | <b>Br</b> Embraer              | <b>H-36</b>         | <i>Dimona</i> .....                    |                               |
| <b>EMB-326</b>                 | <i>Xavante</i> (MB-326) .....                            | <b>Br</b> Embraer              | <b>Halcón</b>       | [C-101] .....                          |                               |
| <b>EMB-810</b>                 | [ <i>Seneca</i> ] .....                                  | <b>Br</b> Embraer              | <b>Harrier</b>      | (AV-8) .....                           | <b>UK</b> BAe                 |
| <b>EP-3</b>                    | (P-3 Orion) .....  |                                | <b>Hawk</b>         | .....                                  | <b>UK</b> BAe                 |
| <b>ERJ-145</b>                 | .....  | <b>Br</b> Embraer              | <b>Hawker 800XP</b> | (BAe-125) .....                        | <b>US</b> Raytheon            |
| <b>Etendard/Super Etendard</b> | .....  | <b>Fr</b> Dassault             | <b>HC-130</b>       | (C-130) .....                          |                               |
| <b>EV-1</b>                    | (OV-1) .....   |                                | <b>HF-24</b>        | <i>Marut</i> .....                     | <b>Ind</b> HAL                |
| <b>F-1</b>                     | [T-2] .....  | <b>J</b> Mitsubishi            | <b>HFB-320</b>      | <i>Hansajet</i> .....                  | <b>Ge</b> Hamburger FB        |
| <b>F-4</b>                     | <i>Phantom</i> .....                                     | <b>US</b> MD                   | <b>HJ-5</b>         | (H-5) .....                            |                               |
| <b>F-5</b>                     | -A/-B <i>Freedom Fighter</i> -E/-F <i>Tiger II</i> ..... | <b>US</b> Northrop             | <b>HJT-16</b>       | <i>Kiran</i> .....                     | <b>Ind</b> HAL                |
| <b>F-6</b>                     | J-6 .....  |                                | <b>HPT-32</b>       | <i>Deepak</i> .....                    | <b>Ind</b> HAL                |
| <b>F-7</b>                     | J-7 .....  |                                | <b>HS-125</b>       | ( <i>Dominie</i> ) .....               | <b>UK</b> BAe                 |
| <b>F-8</b>                     | J-8 .....  |                                | <b>HS-748</b>       | [ <i>Andover</i> ] .....               | <b>UK</b> BAe                 |
| <b>F-10</b>                    | J-10 .....   |                                | <b>HT-2</b>         | .....                                  | <b>Ind</b> HAL                |
| <b>F-11</b>                    | J-11 .....   |                                | <b>HU-16</b>        | <i>Albatross</i> .....                 | <b>US</b> Grumman             |
| <b>F-14</b>                    | <i>Tomcat</i> .....                                      | <b>US</b> Grumman              | <b>HU-25</b>        | ( <i>Falcon 20</i> ) .....             |                               |
| <b>F-15</b>                    | <i>Eagle</i> .....                                       | <b>US</b> MD                   | <b>Hunter</b>       | .....                                  | <b>UK</b> BAe                 |
| <b>F-16</b>                    | <i>Fighting Falcon</i> .....                             | <b>US</b> GD                   | <b>HZ-5</b>         | (H-5) .....                            |                               |
| <b>F-18</b>                    | [F/A-18], <i>Hornet</i> .....                            |                                | <b>IA-50</b>        | <i>Guaraní</i> .....                   | <b>Arg</b> FMA                |
| <b>F-21</b>                    | <i>Kfir</i> .....  | <b>II</b> IAI                  | <b>IA-58</b>        | <i>Pucará</i> .....                    | <b>Arg</b> FMA                |
| <b>F-22</b>                    | <i>Raptor</i> .....                                      | <b>US</b> Lockheed             | <b>IA-63</b>        | <i>Pampa</i> .....                     | <b>Arg</b> FMA                |
| <b>F-27</b>                    | <i>Friendship</i> .....                                  | <b>NI</b> Fokker               | <b>IAI-201/-202</b> | <i>Arava</i> .....                     | <b>II</b> IAI                 |
| <b>F-28</b>                    | <i>Fellowship</i> .....                                  | <b>NI</b> Fokker               | <b>IAI-1124</b>     | <i>Westwind, Seascan</i> .....         | <b>II</b> IAI                 |
| <b>F-35</b>                    | <i>Draken</i> .....                                      | <b>Swe</b> SAAB                | <b>IAI-1125</b>     | <i>Astra</i> .....                     | <b>II</b> IAI                 |
| <b>F-50/-60</b>                | .....  | <b>NI</b> Fokker               | <b>lak-52</b>       | (Yak-52) .....                         | <b>R</b> Aerostar             |
| <b>F-104</b>                   | <i>Starfighter</i> .....                                 | <b>US</b> Lockheed             | <b>IAR-28</b>       | .....                                  | <b>R</b> IAR                  |
| <b>F-111</b>                   | EF-111 .....   | <b>US</b> GD                   | <b>IAR-93</b>       | <i>Orao</i> .....                      | <b>FRY/R</b> SOKO/IAR         |
| <b>F-117</b>                   | <i>Nighthawk</i> .....                                   | <b>US</b> Lockheed             | <b>IAR-99</b>       | <i>Soim</i> .....                      | <b>R</b> IAR                  |
| <b>F-172</b>                   | (Cessna 172) .....                                       | <b>Fr/US</b> Reims-Cessna      | <b>II-14</b>        | 'Crate' .....                          | <b>RF</b> Ilyushin            |
| <b>F-406</b>                   | <i>Caravan</i> .....                                     | <b>Fr</b> Reims                | <b>II-18</b>        | 'Coot' .....                           | <b>RF</b> Ilyushin            |
| <b>F/A-18</b>                  | <i>Hornet</i> .....                                      | <b>US</b> MD                   | <b>II-20</b>        | 'Coot-A' (II-18) .....                 | <b>RF</b> Ilyushin            |
| <b>Falcon</b>                  | <i>Mystère-Falcon</i> .....                              |                                | <b>II-22</b>        | 'Coot-B' (II-18) .....                 | <b>RF</b> Ilyushin            |
| <b>FB-111</b>                  | (F-111) .....  |                                | <b>II-28</b>        | 'Beagle' .....                         | <b>RF</b> Ilyushin            |
| <b>FBC-1</b>                   | <i>Feibao</i> [JH-7] .....                               |                                | <b>II-38</b>        | 'May' .....                            | <b>RF</b> Ilyushin            |
| <b>FC-1</b>                    | ( <i>Sabre 2, Super-7</i> ) ....                         | <b>PRC/RF/Pak</b> CAC/MAPO/Pak | <b>II-62</b>        | 'Classic' .....                        | <b>RF</b> Ilyushin            |
| <b>FH-227</b>                  | (F-27) .....   | <b>US</b> Fairchild-Hiller     | <b>II-76</b>        | 'Candid' (tpt), 'Mainstay' (AEW) ..... | <b>RF</b> Ilyushin            |
| <b>Firefly</b>                 | (T-67M) .....  | <b>UK</b> Slingsby             | <b>II-78</b>        | 'Midas' (tkr) .....                    | <b>RF</b> Ilyushin            |
| <b>Flamingo</b>                | MBB-233 .....  |                                | <b>II-82</b>        | 'Candid' .....                         | <b>RF</b> Ilyushin            |
| <b>FT-5</b>                    | JJ-5 .....   |                                | <b>II-86</b>        | 'Camber' .....                         | <b>RF</b> Ilyushin            |
| <b>FT-6</b>                    | JJ-6 .....   |                                | <b>II-87</b>        | 'Maxdome' .....                        | <b>RF</b> Ilyushin            |
| <b>FT-7</b>                    | JJ-7 .....   |                                | <b>Impala</b>       | [MB-326] .....                         | <b>RSA</b> Atlas              |
| <b>FTB-337</b>                 | [Cessna 337] .....                                       |                                | <b>Islander</b>     | BN-2 .....                             |                               |
| <b>G-91</b>                    | .....  | <b>It</b> Aeritalia            | <b>J-5</b>          | [MiG-17F] .....                        | <b>PRC</b> SAF                |
| <b>G-115E</b>                  | <i>Tutor</i> .....                                       | <b>Ge</b> Grob                 | <b>J-6</b>          | [MiG-19] .....                         | <b>PRC</b> SAF                |

| Type             | Name/designation                         | Country of origin/Maker    |
|------------------|--|----------------------------|
| <b>J-7</b>       | [MiG-21] .....                           | <b>PRC</b> CAC/GAIC        |
| <b>J-8</b>       | <i>Finback</i> .....                     | <b>PRC</b> SAC             |
| <b>J-10</b>      | [IAI <i>Lavi</i> ] .....                 | <b>PRC</b> SAC             |
| <b>J-11</b>      | [Su-27] .....                            | <b>PRC</b> SAC             |
| <b>J-32</b>      | <i>Lansen</i> .....                      | <b>Swe</b> SAAB            |
| <b>J-35</b>      | <i>Draken</i> .....                      | <b>Swe</b> SAAB            |
| <b>J-37</b>      | <i>Viggen</i> .....                      | <b>Swe</b> SAAB            |
| <b>JA-37</b>     | (J-37) .....                             |                            |
| <b>Jaguar</b>    | .....                                    | <b>Fr/UK</b> SEPECAT       |
| <b>JAS-39</b>    | <i>Gripen</i> .....                      | <b>Swe</b> SAAB            |
| <b>Jastreb</b>   | .....                                    | <b>FRY</b> SOKO            |
| <b>Jetstream</b> | .....                                    | <b>UK</b> BAe              |
| <b>JH-7</b>      | [FBC-1] .....                            | <b>PRC</b> XAC             |
| <b>JJ-5</b>      | [J-5] .....                              | <b>PRC</b> CAF             |
| <b>JJ-6</b>      | [J-6] .....                              | <b>PRC</b> SAF             |
| <b>JJ-7</b>      | [J-7] .....                              | <b>PRC</b> GAIC            |
| <b>JZ-6</b>      | (J-6) .....                              |                            |
| <b>K-8</b>       | .....                                    | <b>PRC/Pak/Et</b> Hongdu/E |
| <b>KA-3</b>      | [A-3] .....                              |                            |
| <b>KA-6</b>      | [A-6] .....                              |                            |
| <b>KT-1B</b>     | .....                                    | <b>ROK</b> KAI             |
| <b>KC-10</b>     | <i>Extender</i> [DC-10] .....            | <b>US</b> MD               |
| <b>KC-130</b>    | [C-130] .....                            |                            |
| <b>KC-135</b>    | [Boeing 707] .....                       |                            |
| <b>KE-3A</b>     | [Boeing 707] .....                       |                            |
| <b>KF-16</b>     | (F-16) .....                             |                            |
| <b>Kfir</b>      | .....                                    | <b>II</b> IAI              |
| <b>King Air</b>  | .....                                    | <b>US</b> Beech            |
| <b>Kiran</b>     | HJT-16 .....                             |                            |
| <b>Kraguj</b>    | .....                                    | <b>FRY</b> SOKO            |
| <b>KT-1</b>      | .....                                    | <b>ROK</b> KAI             |
| <b>L-4</b>       | <i>Cub</i> .....                         |                            |
| <b>L-18</b>      | <i>Super Cub</i> .....                   | <b>US</b> Piper            |
| <b>L-19</b>      | O-1 .....                                |                            |
| <b>L-21</b>      | <i>Super Cub</i> .....                   | <b>US</b> Piper            |
| <b>L-29</b>      | <i>Delfin</i> .....                      | <b>Cz</b> Aero             |
| <b>L-39</b>      | <i>Albatros</i> .....                    | <b>Cz</b> Aero             |
| <b>L-59</b>      | <i>Albatros</i> .....                    | <b>Cz</b> Aero             |
| <b>L-70</b>      | <i>Vinka</i> .....                       | <b>SF</b> Valmet           |
| <b>L-100</b>     | C-130 (civil version) .....              |                            |
| <b>L-188</b>     | <i>Electra</i> (P-3 <i>Orion</i> ) ..... | <b>US</b> Lockheed         |
| <b>L-410</b>     | <i>Turbolet</i> .....                    | <b>Cz</b> LET              |
| <b>L-1011</b>    | <i>Tristar</i> .....                     | <b>US</b> Lockheed         |
| <b>Learjet</b>   | (C-21) .....                             | <b>US</b> Gates            |
| <b>LR-1</b>      | (MU-2) .....                             | <b>J</b> Mitsubishi        |
| <b>M-28</b>      | <i>Skytruck/Bryza</i> .....              | <b>PI</b> MIELEC           |
| <b>Magister</b>  | CM-170 .....                             |                            |
| <b>Marut</b>     | HF-24 .....                              |                            |
| <b>Mashshaq</b>  | MFI-17 .....                             | <b>Pak/Swe</b> PAC/SAAB    |
| <b>Matador</b>   | (AV-8) .....                             |                            |
| <b>Maule</b>     | M-7/MXT-7 .....                          | <b>US</b> Maule            |
| <b>MB-326</b>    | .....                                    | <b>It</b> Aermacchi        |
| <b>MB-339</b>    | (Veltro) .....                           | <b>It</b> Aermacchi        |
| <b>MBB-233</b>   | <i>Flamingo</i> .....                    | <b>Ge</b> MBB              |

| Type                  | Name/designation                           | Country of origin/Maker      |
|-----------------------|--|------------------------------|
| <b>MC-130</b>         | (C-130) .....                              |                              |
| <b>Mercurius</b>      | (HS-125) .....                             |                              |
| <b>Merlin</b>         | .....                                      | <b>US</b> Fairchild          |
| <b>Mescalero</b>      | T-41 .....                                 |                              |
| <b>Metro</b>          | .....                                      | <b>US</b> Fairchild          |
| <b>MFI-17</b>         | <i>Supporter</i> (T-17) .....              | <b>Swe</b> SAAB              |
| <b>MiG-15</b>         | 'Midget' trg .....                         | <b>RF</b> MiG                |
| <b>MiG-17</b>         | 'Fresco' .....                             | <b>RF</b> MiG                |
| <b>MiG-19</b>         | 'Farmer' .....                             | <b>RF</b> MiG                |
| <b>MiG-21</b>         | 'Fishbed' .....                            | <b>RF</b> MiG                |
| <b>MiG-23</b>         | 'Flogger' .....                            | <b>RF</b> MiG                |
| <b>MiG-25</b>         | 'Foxbat' .....                             | <b>RF</b> MiG                |
| <b>MiG-27</b>         | 'Flogger D' .....                          | <b>RF</b> MiG                |
| <b>MiG-29</b>         | 'Fulcrum' .....                            | <b>RF</b> MiG                |
| <b>MiG-31</b>         | 'Foxhound' .....                           | <b>RF</b> MiG                |
| <b>MiG-35</b>         | 'Fulcrum' .....                            | <b>RF</b> MiG                |
| <b>Mirage</b>         | .....                                      | <b>Fr</b> Dassault           |
| <b>Missionmaster</b>  | N-22 .....                                 |                              |
| <b>Mohawk</b>         | OV-1 .....                                 |                              |
| <b>MS-760</b>         | <i>Paris</i> .....                         | <b>Fr</b> Aérospatiale       |
| <b>MS-893</b>         | <i>Commodore</i> .....                     |                              |
| <b>MU-2</b>           | LR-1 .....                                 | <b>J</b> Mitsubishi          |
| <b>Musketeer</b>      | <i>Beech 24</i> .....                      | <b>US</b> Beech              |
| <b>Mystère-Falcon</b> | .....                                      | <b>Fr</b> Dassault           |
| <b>N-22</b>           | <i>Floatmaster, Missionmaster</i> .....    | <b>Aus</b> GAF               |
| <b>N-24</b>           | <i>Searchmaster B/L</i> .....              | <b>Aus</b> GAF               |
| <b>N-262</b>          | <i>Frégate</i> .....                       | <b>Fr</b> Aérospatiale       |
| <b>N-2501</b>         | <i>Noratlant</i> .....                     | <b>Fr</b> Aérospatiale       |
| <b>Navajo</b>         | PA-31 .....                                | <b>US</b> Piper              |
| <b>NC-212</b>         | C-212 .....                                | <b>Sp/Indo</b> CASA/Nurtanio |
| <b>NC-235</b>         | C-235 .....                                | <b>Sp/Indo</b> CASA/Nurtanio |
| <b>Nesher</b>         | [ <i>Mirage III</i> ] .....                | <b>II</b> IAI                |
| <b>NF-5</b>           | (F-5) .....                                |                              |
| <b>Nightingale</b>    | (C-9) .....                                |                              |
| <b>Nimrod</b>         | [ <i>Comet</i> ] .....                     | <b>UK</b> BAe                |
| <b>Nomad</b>          | .....                                      | <b>Aus</b> GAF               |
| <b>O-1</b>            | <i>Bird Dog</i> .....                      | <b>US</b> Cessna             |
| <b>O-2</b>            | (Cessna 337 <i>Skymaster</i> ) .....       | <b>US</b> Cessna             |
| <b>OA-4</b>           | (A-4) .....                                |                              |
| <b>OA-37</b>          | <i>Dragonfly</i> .....                     |                              |
| <b>Orao</b>           | IAR-93 .....                               |                              |
| <b>Ouragan</b>        | .....                                      | <b>Fr</b> Dassault           |
| <b>OV-1</b>           | <i>Mohawk</i> .....                        | <b>US</b> Rockwell           |
| <b>OV-10</b>          | <i>Bronco</i> .....                        | <b>US</b> Rockwell           |
| <b>P-3</b>            | <i>Orion</i> [L-188 <i>Electra</i> ] ..... | <b>US</b> Lockheed           |
| <b>P-92</b>           | .....                                      | <b>It</b> Teenam             |
| <b>P-95</b>           | EMB-110 .....                              |                              |
| <b>P-166</b>          | .....                                      | <b>It</b> Piaggio            |
| <b>P-180</b>          | <i>Avanti</i> .....                        | <b>It</b> Piaggio            |
| <b>PA-18</b>          | <i>Super Cub</i> .....                     | <b>US</b> Piper              |
| <b>PA-23</b>          | <i>Aztec</i> .....                         | <b>US</b> Piper              |
| <b>PA-28</b>          | <i>Cherokee</i> .....                      | <b>US</b> Piper              |
| <b>PA-31</b>          | <i>Navajo</i> .....                        | <b>US</b> Piper              |
| <b>PA-32</b>          | <i>Cherokee Six</i> .....                  | <b>US</b> Piper              |

| Type                | Name/designation                | Country of origin/Maker      | Type                        | Name/designation                      | Country of origin/Maker  |
|---------------------|---------------------------------|------------------------------|-----------------------------|---------------------------------------|--------------------------|
| <b>PA-34</b>        | <i>Seneca</i> .....             | <b>US</b> Piper              | <b>Sentry</b>               | (O-2) .....                           | <b>US</b> Summit         |
| <b>PA-36</b>        | <i>Pawnee Brave</i> .....       | <b>US</b> Piper              | <b>SF-37</b>                | (J-37) .....                          |                          |
| <b>PA-38</b>        | <i>Tomahawk</i> .....           | <b>US</b> Piper              | <b>SF-260</b>               | (SF-260W Warrior) .....               | <b>It</b> SIAI           |
| <b>PA-42</b>        | <i>Cheyenne III</i> .....       | <b>US</b> Piper              | <b>SH-5</b>                 | PS-5 .....                            | <b>PRC</b> HAMC          |
| <b>PBY-5</b>        | <i>Catalina</i> .....           | <b>US</b> Consolidated       | <b>SH-37</b>                | (J-37) .....                          |                          |
| <b>PC-6</b>         | <i>Porter</i> .....             | <b>CH</b> Pilatus            | <b>Sherpa</b>               | Short 330, C-23 .....                 | <b>UK</b> Short          |
| <b>PC-6A/B</b>      | <i>Turbo Porter</i> .....       | <b>CH</b> Pilatus            | <b>Short 330</b>            | ( <i>Sherpa</i> ) .....               | <b>UK</b> Short          |
| <b>PC-7</b>         | <i>Turbo Trainer</i> .....      | <b>CH</b> Pilatus            | <b>Sierra 200</b>           | ( <i>Musketeer</i> ) .....            |                          |
| <b>PC-9</b>         | .....                           | <b>CH</b> Pilatus            | <b>SK-35</b>                | (J-35) .....                          | <b>Swe</b> SAAB          |
| <b>PC-12</b>        | .....                           | <b>CH</b> Pilatus            | <b>SK-37</b>                | (J-37) .....                          |                          |
| <b>PD-808</b>       | .....                           | <b>It</b> Piaggio            | <b>SK-60</b>                | (SAAB-105) .....                      | <b>Swe</b> SAAB          |
| <b>Pillán</b>       | T-35 .....                      |                              | <b>SK-61</b>                | ( <i>Bulldog</i> ) .....              |                          |
| <b>PL-1</b>         | <i>Chien Shou</i> .....         | <b>ROC</b> AIDC              | <b>Skyvan</b>               | .....                                 | <b>UK</b> Short          |
| <b>PLZ M-28</b>     | [An-28] .....                   | <b>PI</b> PZL                | <b>SM-90</b>                | .....                                 | <b>RF</b> Technavia      |
| <b>Porter</b>       | PC-6 .....                      |                              | <b>SM-1019</b>              | .....                                 | <b>It</b> SIAI           |
| <b>PS-5</b>         | [SH-5] .....                    |                              | <b>SP-2H</b>                | <i>Neptune</i> .....                  | <b>US</b> Lockheed       |
| <b>PZL M-28</b>     | M-28 [An-28] .....              | <b>PI</b> PZL                | <b>SR-71</b>                | <i>Blackbird</i> .....                | <b>US</b> Lockheed       |
| <b>PZL-104</b>      | <i>Wilga</i> .....              | <b>PI</b> PZL                | <b>Su-7</b>                 | 'Fitter-A' .....                      | <b>RF</b> Sukhoi         |
| <b>PZL-130</b>      | <i>Orlik</i> .....              | <b>PI</b> PZL                | <b>Su-15</b>                | 'Flagon' .....                        | <b>RF</b> Sukhoi         |
| <b>Q-5</b>          | A-5 'Fantan' [MiG-19] .....     | <b>PRC</b> NAMC (Hongdu)     | <b>Su-17/-20/-22</b>        | 'Fitter-B' - 'K' .....                | <b>RF</b> Sukhoi         |
| <b>Queen Air</b>    | (U-8) .....                     |                              | <b>Su-24</b>                | 'Fencer' .....                        | <b>RF</b> Sukhoi         |
| <b>PD-808</b>       | .....                           | <b>It</b> Piaggio            | <b>Su-25</b>                | 'Frogfoot' .....                      | <b>RF</b> Sukhoi         |
| <b>Rafale</b>       | .....                           | <b>Fr</b> Dassault           | <b>Su-27</b>                | 'Flanker' .....                       | <b>RF</b> Sukhoi         |
| <b>R-160</b>        | .....                           | <b>Fr</b> Socata             | <b>Su-29</b>                | .....                                 | <b>RF</b> Sukhoi         |
| <b>R-235</b>        | <i>Guerrier</i> .....           | <b>Fr</b> Socata             | <b>Su-30</b>                | 'Flanker' .....                       | <b>RF</b> Sukhoi         |
| <b>RC-21</b>        | (C-21, <i>Learjet</i> ) .....   |                              | <b>Su-33</b>                | (Su-27K) 'Flanker-D' .....            | <b>RF</b> Sukhoi         |
| <b>RC-47</b>        | (C-47) .....                    |                              | <b>Su-34</b>                | (Su-27IB) 'Flanker-C2' .....          | <b>RF</b> Sukhoi         |
| <b>RC-95</b>        | (EMB-110) .....                 |                              | <b>Su-35</b>                | (Su-27) 'Flanker' .....               | <b>RF</b> Sukhoi         |
| <b>RC-135</b>       | [Boeing 707] .....              |                              | <b>Su-39</b>                | (Su-25T) 'Frogfoot' .....             | <b>RF</b> Sukhoi         |
| <b>RF-4</b>         | (F-4) .....                     |                              | <b>Super</b>                | .....                                 | <b>Fr</b> Dassault       |
| <b>RF-5</b>         | (F-5) .....                     |                              | <b>Shrike Aerocommander</b> | .....                                 | <b>US</b> Rockwell       |
| <b>RF-35</b>        | (F-35) .....                    |                              | <b>Super Galeb</b>          | .....                                 | <b>FRY</b> SOKO          |
| <b>RF-104</b>       | (F-104) .....                   |                              | <b>T-1</b>                  | .....                                 | <b>J</b> Fuji            |
| <b>RG-8A</b>        | .....                           | <b>US</b> Schweizer          | <b>T-1A</b>                 | <i>Jayhawk</i> .....                  | <b>US</b> Beech          |
| <b>RT-26</b>        | (EMB-326) .....                 |                              | <b>T-2</b>                  | <i>Buckeye</i> .....                  | <b>US</b> Rockwell       |
| <b>RT-33</b>        | (T-33) .....                    |                              | <b>T-2</b>                  | .....                                 | <b>J</b> Mitsubishi      |
| <b>RU-21</b>        | ( <i>King Air</i> ) .....       |                              | <b>T-3</b>                  | .....                                 | <b>J</b> Fuji            |
| <b>RV-1</b>         | (OV-1) .....                    |                              | <b>T-6A</b>                 | <i>Texan II</i> .....                 | <b>US</b> Beech          |
| <b>S-2</b>          | <i>Tracker</i> .....            | <b>US</b> Grumman            | <b>T-17</b>                 | ( <i>Supporter</i> , MFI-17) .....    | <b>Swe</b> SAAB          |
| <b>S-208</b>        | .....                           | <b>It</b> SIAI               | <b>T-23</b>                 | <i>Uirapurú</i> .....                 | <b>Br</b> Aerotec        |
| <b>S-211</b>        | .....                           | <b>It</b> SIAI               | <b>T-25</b>                 | <i>Neiva Universal</i> .....          | <b>Br</b> Embraer        |
| <b>SA 2-37A</b>     | .....                           | <b>US</b> Schweizer          | <b>T-26</b>                 | EMB-326 .....                         |                          |
| <b>Saab 340H</b>    | .....                           | <b>Swe</b> SAAB              | <b>T-27</b>                 | <i>Tucano</i> .....                   | <b>Br</b> Embraer        |
| <b>Sabreliner</b>   | (CT-39) .....                   | <b>US</b> Rockwell           | <b>T-28</b>                 | <i>Trojan</i> .....                   | <b>US</b> North American |
| <b>Safari</b>       | MFI-15 .....                    |                              | <b>T-33</b>                 | <i>Shooting Star</i> .....            | <b>US</b> Lockheed       |
| <b>Safir</b>        | SAAB-91 (SK-50) .....           | <b>Swe</b> SAAB              | <b>T-34</b>                 | <i>Mentor</i> .....                   | <b>US</b> Beech          |
| <b>SB7L-360</b>     | ( <i>Seeker</i> ) .....         | <b>Aus/HKJ</b> KADDB/Seabird | <b>T-35</b>                 | <i>Pillán</i> [PA-28] .....           | <b>Chl</b> Enaer         |
| <b>SC-7</b>         | <i>Skyvan</i> .....             | <b>UK</b> Short              | <b>T-36</b>                 | (C-101) .....                         |                          |
| <b>SE-210</b>       | <i>Caravelle</i> .....          |                              | <b>T-37</b>                 | (A-37) .....                          |                          |
| <b>Sea Harrier</b>  | ( <i>Harrier</i> ) .....        |                              | <b>T-38</b>                 | <i>Talon</i> .....                    | <b>US</b> Northrop       |
| <b>Seascan</b>      | IAI-1124 .....                  |                              | <b>T-39</b>                 | ( <i>Sabreliner</i> ) .....           | <b>US</b> Rockwell       |
| <b>Searchmaster</b> | N-24 B/L .....                  |                              | <b>T-41</b>                 | <i>Mescalero</i> (Cessna 172) .....   | <b>US</b> Cessna         |
| <b>Seneca</b>       | PA-34 (EMB-810) .....           | <b>US</b> Piper              | <b>T-42</b>                 | <i>Cochise</i> ( <i>Baron</i> ) ..... | <b>US</b> Beech          |
| <b>Sentinel</b>     | ( <i>Global Express</i> ) ..... | <b>Ca</b> Bombardier         | <b>T-43</b>                 | (Boeing 737) .....                    |                          |



| Type                | Name/designation               | Country of origin/Maker        |
|---------------------|--------------------------------|--------------------------------|
| <b>T-44</b>         | (King Air) .....               |                                |
| <b>T-47</b>         | (Citation) .....               |                                |
| <b>T-67M</b>        | (Firefly) .....                | <b>UK</b> Slingsby             |
| <b>T-400</b>        | (T-1A) .....                   | <b>US</b> Beech                |
| <b>TB-20</b>        | Trinidad .....                 | <b>Fr</b> Aérospatiale         |
| <b>TB-21</b>        | Trinidad .....                 | <b>Fr</b> Socata               |
| <b>TB-30</b>        | Epsilon .....                  | <b>Fr</b> Aérospatiale         |
| <b>TB-200</b>       | Tobago .....                   | <b>Fr</b> Socata               |
| <b>TBM-700</b>      | .....                          | <b>Fr</b> Socata               |
| <b>TC-45</b>        | (C-45, trg) .....              |                                |
| <b>TCH-1</b>        | Chung Hsing .....              | <b>ROC</b> AIDC                |
| <b>TL-1</b>         | (KM-2) .....                   | <b>J</b> Fuji                  |
| <b>Tornado</b>      | .....                          | <b>UK/Ge/It</b> Panavia        |
| <b>TR-1</b>         | [U-2] .....                    | <b>US</b> Lockheed             |
| <b>Travel Air</b>   | Beech 95 .....                 |                                |
| <b>Trident</b>      | .....                          | <b>UK</b> BAe                  |
| <b>Trislander</b>   | BN-2 .....                     |                                |
| <b>Tristar</b>      | L-1011 .....                   |                                |
| <b>TS-8</b>         | Bies .....                     | <b>PI</b> PZL                  |
| <b>TS-11</b>        | Iskra .....                    | <b>PI</b> PZL                  |
| <b>Tu-16</b>        | 'Badger' .....                 | <b>RF</b> Tupolev              |
| <b>Tu-22</b>        | 'Blinder' .....                | <b>RF</b> Tupolev              |
| <b>Tu-22M</b>       | 'Backfire' .....               | <b>RF</b> Tupolev              |
| <b>Tu-95</b>        | 'Bear' .....                   | <b>RF</b> Tupolev              |
| <b>Tu-126</b>       | 'Moss' .....                   | <b>RF</b> Tupolev              |
| <b>Tu-134</b>       | 'Crusty' .....                 | <b>RF</b> Tupolev              |
| <b>Tu-142</b>       | 'Bear F' .....                 | <b>RF</b> Tupolev              |
| <b>Tu-154</b>       | 'Careless' .....               | <b>RF</b> Tupolev              |
| <b>Tu-160</b>       | 'Blackjack' .....              | <b>RF</b> Tupolev              |
| <b>Tucano</b>       | (EMB-312/314) .....            | <b>Br</b> Embraer              |
| <b>Turbo Porter</b> | PC-6A/B .....                  |                                |
| <b>Twin Bonanza</b> | Beech 50 .....                 |                                |
| <b>Twin Otter</b>   | DHC-6 .....                    |                                |
| <b>Typhoon</b>      | .....                          | <b>Ge,Sp,Ir,UK</b> Eurofighter |
| <b>Tzukit</b>       | [CM-170] .....                 | <b>II</b> IAI                  |
| <b>U-2</b>          | .....                          | <b>US</b> Lockheed             |
| <b>U-3</b>          | (Cessna 310) .....             | <b>US</b> Cessna               |
| <b>U-4</b>          | Gulfstream IV .....            | <b>US</b> Gulfstream Aviation  |
| <b>U-7</b>          | (L-18) .....                   |                                |
| <b>U-8</b>          | (Twin Bonanza/Queen Air) ..... | <b>US</b> Beech                |
| <b>U-9</b>          | (EMB-121) .....                |                                |
| <b>U-10</b>         | Super Courier .....            | <b>US</b> Helio                |
| <b>U-17</b>         | (Cessna 180, 185) .....        | <b>US</b> Cessna               |
| <b>U-21</b>         | (King Air) .....               |                                |
| <b>U-36</b>         | (Learjet) .....                |                                |
| <b>U-42</b>         | (C-42) .....                   |                                |
| <b>U-93</b>         | (HS-125) .....                 |                                |
| <b>U-125</b>        | BAe 125-800 .....              | <b>UK</b> BAe                  |
| <b>U-206G</b>       | Stationair .....               | <b>US</b> Cessna               |
| <b>UC-12</b>        | (King Air) .....               |                                |
| <b>UP-2J</b>        | (P-2J) .....                   |                                |
| <b>US-1</b>         | .....                          | <b>J</b> Shin Meiwa            |
| <b>US-2A</b>        | (S-2A, tpt) .....              |                                |
| <b>US-3</b>         | (S-3, tpt) .....               |                                |
| <b>UTVA-66</b>      | .....                          | <b>FRY</b> UTVA                |

|                  |                            |                    |
|------------------|----------------------------|--------------------|
| <b>UTVA-75</b>   | .....                      | <b>FRY</b> UTVA    |
| <b>UV-18</b>     | (DHC-6) .....              |                    |
| <b>V-400</b>     | Fantrainer 400 .....       | <b>Ge</b> VFW      |
| <b>V-600</b>     | Fantrainer 600 .....       | <b>Ge</b> VFW      |
| <b>Vampire</b>   | DH-100 .....               |                    |
| <b>VC-4</b>      | Gulfstream I .....         |                    |
| <b>VC-10</b>     | .....                      | <b>UK</b> BAe      |
| <b>VC-11</b>     | Gulfstream II .....        |                    |
| <b>VC-25</b>     | [Boeing 747] .....         | <b>US</b> Boeing   |
| <b>VC-91</b>     | (HS-748) .....             |                    |
| <b>VC-93</b>     | (HS-125) .....             |                    |
| <b>VC-97</b>     | (EMB-120) .....            |                    |
| <b>VC-130</b>    | (C-130) .....              |                    |
| <b>VFW-614</b>   | .....                      | <b>Ge</b> VFW      |
| <b>Vinka</b>     | L-70 .....                 |                    |
| <b>VU-9</b>      | (EMB-121) .....            |                    |
| <b>VU-93</b>     | (HS-125) .....             |                    |
| <b>WC-130</b>    | [C-130] .....              |                    |
| <b>WC-135</b>    | [Boeing 707] .....         | <b>US</b> Boeing   |
| <b>Westwind</b>  | IAI-1124 .....             |                    |
| <b>Winjeel</b>   | CA-25 .....                |                    |
| <b>Xavante</b>   | EMB-326 .....              |                    |
| <b>Xingu</b>     | EMB-121 .....              |                    |
| <b>Y-5</b>       | [An-2] .....               | <b>PRC</b> Hua Bei |
| <b>Y-7</b>       | [An-24/-26] .....          | <b>PRC</b> XAC     |
| <b>Y-8</b>       | [An-12] .....              | <b>PRC</b> STAF    |
| <b>Y-12</b>      | Turbo/Twin Panda .....     | <b>PRC</b> HAMC    |
| <b>Yak-11</b>    | 'Moose' .....              | <b>RF</b> Yakovlev |
| <b>Yak-18</b>    | 'Max' .....                | <b>RF</b> Yakovlev |
| <b>Yak-28</b>    | 'Firebar' ('Brewer') ..... | <b>RF</b> Yakovlev |
| <b>Yak-38</b>    | 'Forger' .....             | <b>RF</b> Yakovlev |
| <b>Yak-40</b>    | 'Codling' .....            | <b>RF</b> Yakovlev |
| <b>Yak-42</b>    | 'Clobber' .....            | <b>RF</b> Yakovlev |
| <b>Yak-52</b>    | (IAK 52) .....             | <b>R</b> Aerostar  |
| <b>Yak-55</b>    | .....                      | <b>RF</b> Yakovlev |
| <b>YS-11</b>     | .....                      | <b>J</b> Nihon     |
| <b>Z-142/143</b> | .....                      | <b>Cz</b> Zlin     |
| <b>Z-226</b>     | .....                      | <b>Cz</b> Zlin     |
| <b>Z-242</b>     | .....                      | <b>Cz</b> Zlin     |
| <b>Z-326</b>     | .....                      | <b>Cz</b> Zlin     |
| <b>Z-526</b>     | .....                      | <b>Cz</b> Zlin     |
| <b>Zephyr</b>    | CM-175 .....               |                    |

## Tilt-Rotor Wing

|             |              |                       |
|-------------|--------------|-----------------------|
| <b>V-22</b> | Osprey ..... | <b>US</b> Bell/Boeing |
|-------------|--------------|-----------------------|

## Helicopters

|               |                                  |                          |
|---------------|----------------------------------|--------------------------|
| <b>A-109</b>  | Hirundo .....                    | <b>It</b> Agusta         |
| <b>A-129</b>  | Mangusta .....                   | <b>It</b> Agusta         |
| <b>AB-...</b> | (Bell 204/205/206/212/214, etc.) | <b>It/US</b> Agusta/Bell |
| <b>AH-1</b>   | Cobra/Sea Cobra .....            | <b>US</b> Bell           |
| <b>AH-2</b>   | Rooivalk .....                   | <b>RSA</b> Denel         |
| <b>AH-6</b>   | (Hughes 500/530) .....           | <b>US</b> MD             |
| <b>AH-64</b>  | Apache .....                     | <b>US</b> Hughes         |

| Type                        | Name/designation                     | Country of origin/Maker            | Type                           | Name/designation                  | Country of origin/Maker              |
|-----------------------------|--------------------------------------|------------------------------------|--------------------------------|-----------------------------------|--------------------------------------|
| <b>ALH</b>                  | <i>Adv Light Hel</i> .....           | <b>Ind</b> HAL                     | <b>HH-3</b>                    | (SH-3) .....                      |                                      |
| <b>Alouette II</b>          | SA-318, SE-3130 .....                | <b>Fr</b> Aérospatiale             | <b>HH-34</b>                   | (CH-34) .....                     |                                      |
| <b>Alouette III</b>         | SA-316, SA-319 .....                 | <b>Fr</b> Aérospatiale             | <b>HH-53</b>                   | (CH-53) .....                     |                                      |
| <b>AS-61</b>                | (SH-3) .....                         | <b>US/It</b> Sikorsky/Agusta       | <b>HH-65</b>                   | (AS-365) .....                    | <b>Fr</b> Eurocopter                 |
| <b>AS-313 – AS-365/-366</b> | (ex-SA-313 – SA-365/-366) .....      |                                    | <b>Hkp-2</b>                   | <i>Alouette II</i> /SE-3130 ..... |                                      |
| <b>AS-332</b>               | <i>Super Puma</i> .....              | <b>Fr</b> Aérospatiale             | <b>Hkp-3</b>                   | AB-204 .....                      |                                      |
| <b>AS-350</b>               | <i>Ecureuil</i> .....                | <b>Fr</b> Aérospatiale             | <b>Hkp-4</b>                   | KV-107 .....                      |                                      |
| <b>AS-355</b>               | <i>Ecureuil II</i> .....             | <b>Fr</b> Aérospatiale             | <b>Hkp-5</b>                   | Hughes 300 .....                  |                                      |
| <b>AS-365</b>               | <i>Dauphin</i> .....                 | <b>Fr</b> Aérospatiale             | <b>Hkp-6</b>                   | AB-206 .....                      |                                      |
| <b>AS-532</b>               | <i>Cougar</i> .....                  | <b>Fr</b> Eurocopter               | <b>Hkp-9</b>                   | Bo-105 .....                      |                                      |
| <b>AS-550/555</b>           | <i>Fennec</i> .....                  | <b>Fr</b> Aérospatiale             | <b>Hkp-10</b>                  | AS-332 .....                      |                                      |
| <b>AS-565</b>               | <i>Panther</i> .....                 | <b>Fr</b> Eurocopter               | <b>HR-12</b>                   | OH-58 .....                       |                                      |
| <b>ASH-3</b>                | ( <i>Sea King</i> ) .....            | <b>It/US</b> Agusta/Sikorsky       | <b>HSS-1</b>                   | (S-58) .....                      |                                      |
| <b>AUH-76</b>               | (S-76) .....                         |                                    | <b>HSS-2</b>                   | (SH-3) .....                      |                                      |
| <b>Bell 47</b>              | ( <i>Sioux</i> ) .....               | <b>US</b> Bell                     | <b>HT-17</b>                   | CH-47 .....                       |                                      |
| <b>Bell 205</b>             | .....                                | <b>US</b> Bell                     | <b>HT-21</b>                   | AS-332 .....                      |                                      |
| <b>Bell 206</b>             | .....                                | <b>US</b> Bell                     | <b>HU-1</b>                    | (UH-1) .....                      | <b>J/US</b> Fuji/Bell                |
| <b>Bell 212</b>             | .....                                | <b>US</b> Bell                     | <b>HU-8</b>                    | UH-1B .....                       |                                      |
| <b>Bell 214</b>             | .....                                | <b>US</b> Bell                     | <b>HU-10</b>                   | UH-1H .....                       |                                      |
| <b>Bell 222</b>             | .....                                | <b>US</b> Bell                     | <b>HU-18</b>                   | AB-212 .....                      |                                      |
| <b>Bell 406</b>             | <i>Kiowa</i> .....                   | <b>US</b> Bell                     | <b>Hughes 300</b>              | .....                             | <b>US</b> MD                         |
| <b>Bell 407</b>             | .....                                | <b>Ca</b> Bell                     | <b>Hughes 500/520 Defender</b> | .....                             | <b>US</b> MD                         |
| <b>Bell 412</b>             | .....                                | <b>US</b> Bell                     | <b>IAR-316/-330</b>            | (SA-316/-330) .....               | <b>R/Fr</b> IAR/Aérospatiale         |
| <b>Bö-105</b>               | (NBö-105) .....                      | <b>Ge</b> MBB                      | <b>Ka-25</b>                   | 'Hormone' .....                   | <b>RF</b> Kamov                      |
| <b>CH-3</b>                 | (SH-3) .....                         |                                    | <b>Ka-27/-28</b>               | 'Helix-A' .....                   | <b>RF</b> Kamov                      |
| <b>CH-34</b>                | <i>Choctaw</i> .....                 | <b>US</b> Sikorsky                 | <b>Ka-29</b>                   | 'Helix-B' .....                   | <b>RF</b> Kamov                      |
| <b>CH-46</b>                | <i>Sea Knight</i> .....              | <b>US</b> Boeing-Vertol            | <b>Ka-32</b>                   | 'Helix-C' .....                   | <b>RF</b> Kamov                      |
| <b>CH-47</b>                | <i>Chinook</i> .....                 | <b>US</b> Boeing-Vertol            | <b>Ka-50</b>                   | <i>Hokum</i> .....                | <b>RF</b> Kamov                      |
| <b>CH-53</b>                | <i>Stallion (Sea Stallion)</i> ..... | <b>US</b> Sikorsky                 | <b>KH-4</b>                    | (Bell 47) .....                   | <b>J/US</b> Kawasaki/ Bell           |
| <b>CH-54</b>                | <i>Tarhe</i> .....                   | <b>US</b> Sikorsky                 | <b>KH-300</b>                  | (Hughes 269) .....                | <b>J/US</b> Kawasaki/MD              |
| <b>CH-113</b>               | (CH-46) .....                        |                                    | <b>KH-500</b>                  | (Hughes 369) .....                | <b>J/US</b> Kawasaki/MD              |
| <b>CH-124</b>               | SH-3 ( <i>Sea King</i> ) .....       |                                    | <b>Kiowa</b>                   | OH-58 .....                       |                                      |
| <b>CH-136</b>               | <i>Kiowa</i> .....                   | <b>Ca</b> Bell                     | <b>KV-107</b>                  | [CH-46] .....                     | <b>J/US</b> Kawasaki/Vertol          |
| <b>CH-139</b>               | Bell 206 .....                       |                                    | <b>Lynx</b>                    | .....                             | <b>UK</b> Westland                   |
| <b>CH-146</b>               | Bell 412 .....                       | <b>Ca</b> Bell                     | <b>MD-500/530 Defender</b>     | .....                             | <b>US</b> McDonnell Douglas          |
| <b>CH-147</b>               | CH-47 .....                          |                                    | <b>Merlin</b>                  | EH-101 .....                      | <b>UK/It</b> Westland/Agusta         |
| <b>CH-149</b>               | <i>Cormorant (Merlin)</i> .....      |                                    | <b>MH-6</b>                    | (AH-6) .....                      |                                      |
| <b>Cheetah</b>              | [SA-315] .....                       | <b>Ind</b> HAL                     | <b>MH-53</b>                   | (CH-53) .....                     |                                      |
| <b>Chetak</b>               | [SA-319] .....                       | <b>Ind</b> HAL                     | <b>Mi-2</b>                    | 'Hoplite' .....                   | <b>RF</b> Mil                        |
| <b>Commando</b>             | (SH-3) .....                         | <b>UK/US</b> Westland/Sikorsky     | <b>Mi-4</b>                    | 'Hound' .....                     | <b>RF</b> Mil                        |
| <b>Dhruv</b>                | .....                                | <b>Ind</b> HAL                     | <b>Mi-6</b>                    | 'Hook' .....                      | <b>RF</b> Mil                        |
| <b>EC-120B</b>              | <i>Colibri</i> .....                 | <b>Fr/Ge</b> Eurocopter            | <b>Mi-8</b>                    | 'Hip' .....                       | <b>RF</b> Mil                        |
| <b>EH-60</b>                | (UH-60) .....                        |                                    | <b>Mi-14</b>                   | 'Haze' .....                      | <b>RF</b> Mil                        |
| <b>EH-101</b>               | <i>Merlin</i> .....                  | <b>UK/It</b> Westland/Agusta       | <b>Mi-17</b>                   | 'Hip-H' .....                     | <b>RF</b> Mil                        |
| <b>F-28F</b>                | .....                                | <b>US</b> Enstrom                  | <b>Mi-24, -25, -35</b>         | 'Hind' .....                      | <b>RF</b> Mil                        |
| <b>FH-1100</b>              | (OH-5) .....                         | <b>US</b> Fairchild-Hiller         | <b>Mi-26</b>                   | 'Halo' .....                      | <b>RF</b> Mil                        |
| <b>Gazela</b>               | (SA-342) .....                       | <b>Fr/FRY</b> Aérospatiale/SOKO    | <b>Mi-28</b>                   | 'Havoc' .....                     | <b>RF</b> Mil                        |
| <b>Gazelle</b>              | SA-341/-342 .....                    |                                    | <b>NAS-330</b>                 | (SA-330) .....                    | <b>Indo/Fr</b> Nurtanio/Aérospatiale |
| <b>H-34</b>                 | (S-58) .....                         |                                    | <b>NAS-332</b>                 | AS-332 .....                      | <b>Indo/Fr</b> Nurtanio/Aérospatiale |
| <b>H-76</b>                 | S-76 .....                           |                                    | <b>NB-412</b>                  | Bell 412 .....                    | <b>Indo/US</b> Nurtanio/Bell         |
| <b>HA-15</b>                | Bö-105 .....                         |                                    | <b>NBö-105</b>                 | Bö-105 .....                      | <b>Indo/Ge</b> Nurtanio/MBB          |
| <b>HB-315</b>               | <i>Gavião</i> (SA-315) .....         | <b>Br/Fr</b> Helibras Aérospatiale | <b>NH-300</b>                  | (Hughes 300) .....                | <b>It/US</b> Nardi/MD                |
| <b>HB-350</b>               | <i>Esquilo</i> (AS-350) .....        | <b>Br/Fr</b> Helibras Aérospatiale | <b>OH-6</b>                    | <i>Cayuse</i> (Hughes 369) .....  | <b>US</b> MD                         |
| <b>HD-16</b>                | SA-319 .....                         |                                    | <b>OH-13</b>                   | (Bell 47G) .....                  |                                      |

|                    |  |                        |               |  |                                |
|--------------------|--|------------------------|---------------|--|--------------------------------|
| <b>OH-23</b>       | <i>Raven</i> .....                       | <b>US</b> Hiller       | <b>SH-3</b>   | <i>(Sea King)</i> .....                  | <b>US</b> Sikorsky             |
| <b>OH-58</b>       | <i>Kiowa</i> (Bell 206) .....            |                        | <b>SH-34</b>  | (S-58) .....                             |                                |
| <b>OH-58D</b>      | (Bell 406) .....                         |                        | <b>SH-57</b>  | Bell 206 .....                           |                                |
| <b>Oryx</b>        | (SA-330) .....                           |                        | <b>SH-60</b>  | <i>Sea Hawk</i> (UH-60) .....            |                                |
| <b>PAH-1</b>       | (Bo-105) .....                           |                        | <b>Sokol</b>  | W3 .....                                 |                                |
| <b>Partizan</b>    | ( <i>Gazela</i> , armed) .....           |                        | <b>TH-50</b>  | Esquilo (AS-550) .....                   |                                |
| <b>RH-53</b>       | (CH-53) .....                            |                        | <b>TH-55</b>  | Hughes 269 .....                         |                                |
| <b>S-58</b>        | ( <i>Wessex</i> ) .....                  | <b>US</b> Sikorsky     | <b>TH-57</b>  | <i>Sea Ranger</i> (Bell 206) .....       |                                |
| <b>S-61</b>        | SH-3 .....                               |                        | <b>TH-67</b>  | Creek (Bell 206B-3) .....                | <b>Ca</b> Bell                 |
| <b>S-65</b>        | CH-53 .....                              |                        | <b>Tiger</b>  | AS-665 .....                             | <b>Fr</b> Eurocopter           |
| <b>S-70</b>        | UH-60 .....                              | <b>US</b> Sikorsky     | <b>UH-1</b>   | <i>Iroquois</i> (Bell 204/205/212) ..... |                                |
| <b>S-76</b>        | .....                                    | <b>US</b> Sikorsky     | <b>UH-12</b>  | (OH-23) .....                            | <b>US</b> Hiller               |
| <b>S-80</b>        | CH-53 .....                              |                        | <b>UH-13</b>  | (Bell 47J) .....                         |                                |
| <b>SA-313</b>      | <i>Alouette II</i> .....                 | <b>Fr</b> Aérospatiale | <b>UH-19</b>  | (S-55) .....                             |                                |
| <b>SA-315</b>      | <i>Lama</i> [ <i>Alouette II</i> ] ..... | <b>Fr</b> Aérospatiale | <b>UH-34T</b> | (S-58T) .....                            |                                |
| <b>SA-316</b>      | <i>Alouette III</i> (SA-319) .....       | <b>Fr</b> Aérospatiale | <b>UH-46</b>  | (CH-46) .....                            |                                |
| <b>SA-318</b>      | <i>Alouette II</i> (SE-3130) .....       | <b>Fr</b> Aérospatiale | <b>UH-60</b>  | <i>Black Hawk</i> (SH-60) .....          | <b>US</b> Sikorsky             |
| <b>SA-319</b>      | <i>Alouette III</i> (SA-316) .....       | <b>Fr</b> Aérospatiale | <b>VH-4</b>   | (Bell 206) .....                         |                                |
| <b>SA-321</b>      | <i>Super Frelon</i> .....                | <b>Fr</b> Aérospatiale | <b>VH-60</b>  | (S-70) .....                             |                                |
| <b>SA-330</b>      | <i>Puma</i> .....                        | <b>Fr</b> Aérospatiale | <b>W-3</b>    | <i>Sokol</i> .....                       | <b>PI</b> PZL                  |
| <b>SA-341/-342</b> | <i>Gazelle</i> .....                     | <b>Fr</b> Aérospatiale | <b>Wasp</b>   | ( <i>Scout</i> ) .....                   | <b>UK</b> Westland             |
| <b>SA-360</b>      | <i>Dauphin</i> .....                     | <b>Fr</b> Aérospatiale | <b>Wessex</b> | (S-58) .....                             | <b>US/UK</b> Sikorsky/Westland |
| <b>SA-365/-366</b> | <i>Dauphin II</i> (SA-360) .....         |                        | <b>Z-5</b>    | [Mi-4] .....                             | <b>PRC</b> HAF                 |
| <b>Scout</b>       | ( <i>Wasp</i> ) .....                    | <b>UK</b> Westland     | <b>Z-6</b>    | [Z-5] .....                              | <b>PRC</b> CHAF                |
| <b>SE-316</b>      | (SA-316) .....                           |                        | <b>Z-8</b>    | [AS-321] .....                           | <b>PRC</b> CHAF                |
| <b>SE-3130</b>     | (SA-318) .....                           |                        | <b>Z-9</b>    | [AS-365] .....                           | <b>PRC</b> HAMC                |
| <b>Sea King</b>    | [SH-3] .....                             | <b>UK</b> Westland     | <b>Z-11</b>   | [AS-352] .....                           | <b>PRC</b> CHAF                |
| <b>SH-2</b>        | <i>Sea Sprite</i> .....                  | <b>US</b> Kaman        |               |  |                                |

Table 59 List of Abbreviations for Data Sections

|  |  |  |
|--|--|--|
| - part of unit is detached/less than                     | <b>AP</b> armour-piercing/anti-personnel                 | <b>CASM</b> conventionally armed stand-off missile   |
| * combat capable   | <b>APC</b> armoured personnel carrier                    | <b>cav</b> cavalry                                   |
| " unit with overstated title/ship class nickname         | <b>APL</b> anti-personnel land-mine                      | <b>cbt</b> combat                                    |
| + unit reinforced/more than                              | <b>AR</b> Repair Ship                                    | <b>CBU</b> cluster bomb unit                         |
| < under 100 tonnes                                       | <b>AR/C</b> repair ship/cable                            | <b>CCS</b> command and control systems               |
| † serviceability in doubt                                | <b>ARG</b> amphibious ready group                        | <b>cdo</b> commando                                  |
| € estimated  | <b>ARL</b> airborne reconnaissance low                   | <b>CET</b> combat engineer tractor                   |
|  | <b>ARM</b> anti-radiation missile                        | <b>CFE</b> Conventional Armed Forces in Europe       |
| <b>AAA</b> anti-aircraft artillery                       | <b>armd</b> armoured                                     | <b>CG</b> guided missile cruiser                     |
| <b>AAM</b> air-to-air missile                            | <b>ARS</b> salvage ship                                  | <b>CGN</b> guided missile cruiser, nuclear powered   |
| <b>AAV</b> amphibious assault vehicle                    | <b>ARSV</b> armoured reconnaissance/surveillance vehicle | <b>cgo</b> cargo (freight) aircraft                  |
| <b>AB</b> airborne                                       | <b>ARTHUR</b> artillery hunting radar                    | <b>CIWS</b> Close in Weapons System                  |
| <b>ABM</b> anti-ballistic missile                        | <b>arty</b> artillery                                    | <b>CL</b> light cruiser                              |
| <b>ABU</b> sea going buoy tender                         | <b>ARV</b> armoured recovery vehicle                     | <b>CLOS</b> command to line of sight                 |
| <b>ac</b> aircraft                                       | <b>AS</b> anti-submarine                                 | <b>COIN</b> counter insurgency                       |
| <b>ACCS</b> Air Command and Control System               | <b>ASaC</b> airborne surveillance and control            | <b>comb</b> combined/combo                           |
| <b>ACP</b> airborne command post                         | <b>ASCM</b> anti-ship cruise missile                     | <b>Comd</b> command                                  |
| <b>ACV</b> air cushion vehicle                           | <b>ASM</b> air-to-surface missile                        | <b>COMINT</b> Communications Intelligence            |
| <b>AD</b> air defence                                    | <b>ASR</b> submarine rescue craft                        | <b>Comms</b> communications                          |
| <b>ADA</b> air defence artillery                         | <b>ASROC</b> anti-submarine rocket                       | <b>CSAR</b> combat search and rescue                 |
| <b>adj</b> adjusted                                      | <b>ASSM</b> anti-surface-ship missile                    | <b>CSG</b> Carrier Strike Group (US)                 |
| <b>AE</b> auxiliary, ammunition carrier                  | <b>ASTROS II</b> artillery saturation rocket System      | <b>CTOL</b> conventional take off and landing        |
| <b>AEW</b> airborne early warning                        | <b>ASTT</b> anti-submarine torpedo tube                  | <b>CV</b> aircraft carrier                           |
| <b>AF</b> Air Force                                      | <b>ASUW</b> anti-surface unit warfare                    | <b>CVBG</b> carrier battlegroup                      |
| <b>AFB</b> Air Force Base / Station                      | <b>ASuW</b> anti-submarine warfare                       | <b>CVH</b> aircraft carrier, helicopter              |
| <b>AFS</b> Logistics ship                                | <b>AT</b> tug; <b>ATF</b> tug, ocean going               | <b>CVN</b> aircraft carrier, nuclear powered         |
| <b>AFR</b> Air Force Reserve                             | <b>ATBM</b> anti-tactical ballistic missile              | <b>CVS</b> aircraft carrier with VSTOL               |
| <b>AG</b> misc auxiliary                                 | <b>ATGW</b> anti-tank guided weapon                      | <b>CW</b> chemical warfare/weapons                   |
| <b>AGB</b> Icebreaker                                    | <b>ATK</b> anti-tank / attack                            | <b>DD</b> destroyer                                  |
| <b>AGF</b> command ship                                  | <b>ATTACMS</b> army tactical missile system              | <b>DDG</b> guided missile destroyer                  |
| <b>AGHS</b> hydrographic survey vessel                   | <b>ATTC</b> all terrain tracked carrier                  | <b>DDGH</b> guided missile destroyer with helicopter |
| <b>AGI</b> intelligence collection vessel                | <b>ATTU</b> Atlantic to the Urals                        | <b>DDS</b> dry dock shelter                          |
| <b>AGL</b> automatic grenade launcher                    | <b>AV</b> armoured vehicle                               | <b>def</b> defence                                   |
| <b>AGM</b> air-to-ground missile                         | <b>AVB</b> aviation logistic ship                        | <b>demob</b> demobilised                             |
| <b>AGOR</b> oceanographic research vessel                | <b>avn</b> aviation                                      | <b>det</b> detachment                                |
| <b>AGOS</b> oceanographic surveillance vessel            | <b>AWACAS</b> airborne warning and control system        | <b>div</b> division                                  |
| <b>AGS</b> survey ship                                   | <b>AWT</b> water tanker                                  | <b>dom</b> domestic                                  |
| <b>AH</b> hospital ship                                  | <b>AXL</b> training craft                                | <b>DSCS</b> defense satellite communications system  |
| <b>AIFV</b> armoured infantry fighting vehicle           | <b>AXS</b> training craft, sail                          | <b>ECM</b> electronic counter measures               |
| <b>AJT</b> Advance Jet Trainer                           | <b>BA</b> budget authority (US)                          | <b>ECR</b> electronic combat and reconnaissance      |
| <b>AK</b> cargo ship                                     | <b>Bbr</b> bomber  | <b>EELV</b> evolved expendable launch vehicle        |
| <b>aka</b> also known as                                 | <b>BCT</b> brigade combat team                           | <b>ELINT</b> electronic intelligence                 |
| <b>AKR</b> fast sealift ship/ cargo ship                 | <b>bde</b> brigade                                       | <b>elm</b> element                                   |
| <b>AKSL</b> Stores ship (light)                          | <b>bdgt</b> budget                                       | <b>enr</b> engineer                                  |
| <b>ALARM</b> air-launched anti-radiation missile         | <b>BG</b> battle group                                   | <b>EOD</b> explosive ordnance disposal               |
| <b>ALCM</b> air-launched cruise missile                  | <b>BMD</b> ballistic missile defense                     | <b>eqpt</b> equipment                                |
| <b>amph</b> amphibious/amphibian                         | <b>bn</b> battalion/billion                              | <b>ESG</b> Expeditionary Strike Group (US)           |
| <b>AMRAAM</b> advanced medium-range air-to-air missile   | <b>bty</b> battery                                       | <b>ESM</b> electronic support measures               |
| <b>AO</b> tanker with RAS capability                     | <b>C2</b> command and control                            | <b>est</b> estimate(d)                               |
| <b>AOE</b> auxiliary fuel and ammunition, RAS capability | <b>CALCM</b> conventional air-launched cruise missile    | <b>ETS</b> engineer tank systems                     |
| <b>AORH</b> tanker with hel capacity                     | <b>can</b> cannon  | <b>EW</b> electronic warfare                         |
| <b>AORL</b> replenishment oiler light                    | <b>CAS</b> close air support                             | <b>EWSP</b> electronic warfare self protection       |
| <b>AORLH</b> oiler light with hel deck                   | <b>casevac</b> casualty evacuation                       | <b>excl</b> excludes/excluding                       |
| <b>AOT</b> tanker  |  |  |

- exp** expenditure  
**FAC** forward air control  
**FCLV** future command and liaison vehicle  
**fd** field  
**FF** frigate  
**FFG** guided missile frigate  
**FFH** frigate with helicopter  
**FFL** light frigate  
**FGA** fighter ground attack  
**FHTV** family of heavy transport vehicles  
**flt** flight  
**FMA/F/S** Foreign Military Assistance/  
 Financing/Sales  
**FMTV** family of medium transport vehicles  
**FROG** free rocket over ground  
**FS** corvette  
**FSG** guided missile corvette  
**FSSG** Force Service Support Group  
**FSTA** future strategic tanker aircraft  
**FTR** fighter  
**FW** fixed-wing  
**FY** fiscal year  
**g** gram  
**GBAD** ground-based air defences  
**gd** guard  
**GDP** gross domestic product  
**GMLS** guided missile launch system  
**GNP** gross national product  
**gp** group  
**GEODSS** ground based electro optical  
 deep space surveillance system  
**GW** guided weapon  
**HARM** high-speed anti-radiation missile  
**hel** helicopter  
**HIMARS** high mobility artillery rocket  
 system  
**HMMWV** high-mobility multi-purpose  
 wheeled vehicle  
**HMTV** high mobility tactical vehicle  
**HOT** High-subsonic Optically Teleguided  
**how** howitzer  
**HQ** headquarters  
**HSV** high speed vessel  
**HVM** high-velocity missile  
**HWT** heavyweight torpedo  
**hy** heavy  
**IBU** inshore boat unit  
**ICBM** inter-continental ballistic missile  
**IEW** Intelligence/Electronic Warfare  
**IFG** Indian Field Gun  
**IFV** infantry fighting vehicle  
**IMET** International Military Education and  
 Training  
**imp** improved  
**incl** includes/including  
**indep** independent  
**inf** infantry  
**IRBM** intermediate-range ballistic missile  
**IRLS** infra-red line scan  
**ISTAR** intelligence, surveillance, target  
 acquisition and reconnaissance  
**JDAM** Joint Direct Attack Munition  
**JSF** Joint Strike Fighter  
**JSTARS** Joint Surveillance Target Attack  
 Radar System  
**kg** kilogram  
**KT** kiloton  
**LACV** light armored combat vehicle  
**LAM** land-attack missile  
**LAMPS** light airborne multi-purpose  
 system  
**LANTIRN** low-altitude navigation and  
 targeting infra-red system night  
**LAV** light armoured vehicle  
**LAW** light anti-tank weapon  
**LC** landing craft  
**LCA** landing craft assault / Light Combat  
 Aircraft  
**LCC** amphibious command ship  
**LCH** landing craft heavy  
**LCM** landing craft medium  
**LCPA** landing craft personnel air cushion  
**LCPL** landing craft personnel small  
**LCS** littoral combat ship  
**LCT** landing craft tank  
**LCU** landing craft utility  
**LCVP** landing craft vehicles and personnel  
**LFAV** light forces armoured vehicles  
**LGB** laser-guided bomb  
**LHA** landing ship assault  
**LHD** amphibious assault ship  
**LKA** amphibious cargo ship  
**log** logistic  
**LORADS** long range radar display system  
**LP** landing platform  
**LPD** landing platform dock  
**LPH** landing platform helicopter  
**LPV** lifespan patrol vessel  
**LRAR** long range artillery rocket  
**LRSA** long-range strike/attack  
**LS** landing ship  
**LSD** landing ship dock  
**LSL** landing ship logistic  
**LSLH** landing ship logistic helicopter  
**LSM** landing ship medium  
**LST** landing ship tank  
**LWT** lightweight torpedo  
**maint** maintenance  
**MAMBA** mobile artillery monitoring  
 battlefield radar  
**MANPAD** man portable air defence  
**MARDIV** marine division  
**MAW** marine aviation wing  
**MBT** main battle tank  
**MCC** mine countermeasure coastal  
**MCD** mine countermeasure diving  
 support  
**MCDV** maritime coastal defence vessel  
**MCI** mine countermeasure inshore  
**MCLOS** manual CLOS  
**MCM** mine countermeasures  
**MCMV** mine countermeasures vessel  
**MCO** mine countermeasures ocean  
**MCV** mine countermeasures vessel  
**MD** military district  
**MEB** marine expeditionary brigade  
**mech** mechanised  
**med** medium  
**MEF** marine expeditionary force  
**MEU** marine expeditionary unit  
**MG** machine gun  
**MHC** mine hunter coastal  
**MHD** mine hunter drone  
**MHI** mine hunter inshore  
**MHO** mine hunter ocean  
**mil** military  
**MIRV** multiple independently targetable  
 re-entry vehicle  
**misc** miscellaneous  
**MIUW** mobile inshore undersea warfare  
**mk** mark (model number)  
**ML** minelayer  
**MLRS** multiple-launch rocket system  
**MLU** mid-life update  
**MLV** medium launch vehicle  
**mm** millimetre  
**mne** marine  
**mob** mobilisation/ mobile  
**mod** modified/modification  
**mor** mortar  
**mot** motorised/motor  
**MP** maritime patrol  
**MPA** maritime patrol aircraft  
**MPS** marine prepositioning squadron  
**MR** maritime reconnaissance / motor rifle  
**MRAAM** medium-range air-to-air missile  
**MRBM** medium-range ballistic missile  
**MRD** motor rifle division  
**MRL** multiple rocket launcher  
**MRR** motor rifle regiment  
**MRTT** multi-role tanker transport  
**MS** mine sweeper  
**MSA** mine sweeper auxiliary  
**MSAM** medium-range surface-to-air  
 missile  
**MSC** mine sweeper coastal  
**MSD** mine sweeper drone  
**MSI** mine sweeper inshore  
**msl** missile  
**MSO** mine sweeper ocean  
**MSR** mine sweeper riverine  
**MSTAR** manportable surveillance and  
 target acquisition radar  
**Mtn** mountain  
**NAEW** NATO Airborne Early Warning &  
 Control Force  
**n.a.** not applicable  
**n.k.** not known  
**NBC** nuclear biological chemical



|   |  |   |
|---|--|---|
| <b>NCO</b> non-commissioned officer   | <b>PVO</b> anti-aircraft defence (Russia)                              | <b>SSI</b> diesel submarine inshore                       |
| <b>nm</b> nautical mile   | <b>qd</b> quadrillion  | <b>SSK</b> Ptrl submarine with ASW capability             |
| <b>NMD</b> national missile defence   | <b>R&amp;D</b> research and development                                | <b>SSM</b> surface-to-surface missile                     |
| <b>NMP</b> net material product   | <b>RAM</b> rolling airframe missile                                    | <b>SSN</b> attack submarine nuclear powered               |
| <b>nuc</b> nuclear  | <b>RANGE INST</b> range instrumentation                                | <b>START</b> Strategic Arms Reduction Talks/<br>Treaty    |
| <b>O &amp; M</b> operations and maintenance                                     | <b>RAPID</b> Reorganized Army Plains Infantry<br>Division              | <b>STO(V)L</b> short take-off and (vertical)<br>landing   |
| <b>OBS</b> observation  | <b>RAS</b> replenishment at sea  | <b>str</b> strength                                       |
| <b>OCU</b> operational conversion unit  | <b>RCL</b> ramped craft logistic                                       | <b>SUGW</b> surface-to-underwater GW                      |
| <b>OOV</b> objects of verification  | <b>recce</b> reconnaissance  | <b>SURV</b> surveillance                                  |
| <b>op/ops</b> operational/operations  | <b>regt</b> regiment   | <b>SUT</b> surface and underwater target                  |
| <b>OPFOR</b> opposition training force  | <b>res</b> reserve(d)(s)   | <b>svc</b> service  |
| <b>OPV</b> off-shore patrol vessel  | <b>RIB</b> rigid inflatable boat                                       | <b>sy</b> security  |
| <b>org</b> organised/organisation   | <b>RL</b> rocket launcher  | <b>t</b> tonnes   |
| <b>OSV</b> oceanographic survey vessel  | <b>ro-ro</b> roll-on, roll-off   | <b>tac</b> tactical                                       |
| <b>OTH/-B</b> over-the-horizon/backscatter<br>(radar)                           | <b>RPV</b> remotely piloted vehicle                                    | <b>TASM</b> tactical air-to-surface missile               |
| <b>OTHR/T</b> over-the-horizon radar/targeting                                  | <b>RR/C/F</b> rapid-reaction corps/force                               | <b>TD</b> tank division                                   |
| <b>PAAMS</b> principle anti-air missile system                                  | <b>RRC</b> rapid raiding craft   | <b>temp</b> temporary                                     |
| <b>para</b> paratroop/parachute   | <b>RV</b> re-entry vehicle   | <b>THAAD</b> Theater High Altitude Area<br>Defense (US)   |
| <b>pax</b> passenger/passenger transport<br>aircraft                            | <b>RY</b> royal yacht  | <b>TIPH</b> Temporary International presence<br>in Hebron |
| <b>PB</b> patrol boat   | <b>SACLOS</b> semi-automatic CLOS                                      | <b>tk</b> tank  |
| <b>PBC</b> patrol boat coastal  | <b>SAM</b> surface-to-air missile                                      | <b>Tkr</b> tanker   |
| <b>PBI</b> patrol boat Inshore  | <b>SAR</b> search and rescue   | <b>TLE</b> treaty-limited equipment (CFE)                 |
| <b>PBR</b> Patrol boat riverine   | <b>sat</b> satellite   | <b>TMD</b> theatre missile defence                        |
| <b>PC</b> patrol craft  | <b>SDV</b> swimmer- delivery vehicles                                  | <b>torp</b> torpedo                                       |
| <b>PCC</b> patrol craft coastal   | <b>SEAD</b> suppression of enemy air defence                           | <b>TOW</b> tube launched optically wire guided            |
| <b>PCI</b> patrol craft inshore   | <b>SEAL</b> sea-air-land   | <b>Tpt/Tkr</b> transport/tanker                           |
| <b>PCM</b> patrol craft with SSM (surface to<br>surface missiles)               | <b>SEWS</b> satellite early warning station                            | <b>tr</b> trillion  |
| <b>PCO</b> patrol craft offshore  | <b>SF</b> special forces   | <b>TRG / trg</b> training                                 |
| <b>PCR</b> patrol craft riverine  | <b>SH</b> support helicopter   | <b>TRIAD</b> triple AD                                    |
| <b>PCT</b> patrol craft with torpedo  | <b>SHORAD</b> short range air defence                                  | <b>TRV</b> torpedo recovery vehicle                       |
| <b>PDMS</b> point defence missile system  | <b>SIGINT</b> signal intelligence                                      | <b>TT</b> torpedo tube                                    |
| <b>pdr</b> pounder  | <b>SLAM</b> stand-off land-attack missile                              | <b>UA</b> unit of action                                  |
| <b>pers</b> personnel   | <b>SLBM</b> submarine launched ballistic missile                       | <b>UAV</b> unmanned aerial vehicle                        |
| <b>PFB</b> fast patrol boat   | <b>SLCM</b> submarine launched cruise missile                          | <b>URG</b> under-way replenishment group                  |
| <b>PFC</b> fast patrol craft coastal  | <b>SLEP</b> service life extension programme                           | <b>USGW</b> underwater to surface guided<br>weapon        |
| <b>PFI</b> fast patrol craft inshore  | <b>SMAW</b> shoulder-launched multi-purpose<br>assault weapon          | <b>utl</b> utility  |
| <b>PFM</b> fast patrol craft with SSM   | <b>SOC</b> special operations capable                                  | <b>V(/S)TOL</b> vertical/(short) take-off and<br>landing  |
| <b>PFO</b> fast patrol craft ocean  | <b>SP</b> self propelled   | <b>veh</b> vehicle  |
| <b>PFT</b> fast patrol craft with torpedo                                       | <b>SPH</b> self-propelled howitzer                                     | <b>VLS</b> vertical launch system                         |
| <b>PGM</b> precision guided munitions   | <b>SPEC OP</b> special operations                                      | <b>VSRAD</b> very short range air defence                 |
| <b>PHM</b> patrol hydrofoil with SSM  | <b>spt</b> support   | <b>wg</b> wing  |
| <b>PHT</b> patrol hydrofoil with torpedo  | <b>sqn</b> squadron  | <b>WLIC</b> Inland construction tenders                   |
| <b>POMCUS</b> prepositioning of material<br>configured to unit sets             | <b>SRAM</b> short-range-attack missile                                 | <b>WMD</b> weapon(s) of mass destruction                  |
| <b>PPP</b> purchasing-power parity  | <b>SRBM</b> short range ballistic missile                              | <b>wpn</b> weapon   |
| <b>PR</b> photo-reconnaissance  | <b>SS</b> diesel submarine   | <b>WTGB</b> Icebreaker tugs                               |
| <b>prepo</b> pre-positioned   | <b>SSAN</b> submersible auxilliary support<br>vessel                   | <b>YDG</b> degaussing                                     |
| <b>PSO</b> offshore patrol vessel over 60 metres                                | <b>SSBN</b> ballistic-missile submarine nuclear-<br>fuelled            | <b>YDT</b> diving tender                                  |
| <b>PSOH</b> offshore patrol vessel over 60<br>metres with helicopter capability | <b>SSC</b> diesel submarine coastal                                    | <b>YTL</b> light harbour tug                              |
| <b>PTG</b> guided missile patrol craft  | <b>SSG</b> attack submarine diesel, non-ballistic<br>missile launchers | <b>YTM</b> medium harbour tug                             |
| <b>PTRL/SURV</b> patrol / surveillance  | <b>SSGN</b> SSN with dedicated non-ballistic<br>missile launchers      |   |

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Index of **Country Abbreviations**

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|--------------------|--|-------------------|---|-------------------|------------------------------|
| <b>A</b> .....     | Austria                                  | <b>Fr</b> .....   | France  | <b>PF</b> .....   | French Polynesia             |
| <b>AB</b> .....    | Antigua and Barbuda                      | <b>GI</b> .....   | Gibraltar   | <b>PI</b> .....   | Poland                       |
| <b>Afg</b> .....   | Afghanistan                              | <b>GL</b> .....   | Greenland   | <b>PNG</b> .....  | Papua New Guinea             |
| <b>Ag</b> .....    | Algeria                                  | <b>Ga</b> .....   | Georgia   | <b>PRC</b> .....  | China, Peoples Republic of   |
| <b>Alb</b> .....   | Albania                                  | <b>Gam</b> .....  | The Gambia  | <b>Pak</b> .....  | Pakistan                     |
| <b>Ang</b> .....   | Angola                                   | <b>Gbn</b> .....  | Gabon   | <b>Pan</b> .....  | Panama                       |
| <b>Arg</b> .....   | Argentina                                | <b>Ge</b> .....   | Germany   | <b>Pe</b> .....   | Peru                         |
| <b>Arm</b> .....   | Armenia                                  | <b>Gf</b> .....   | French Guiana                                       | <b>Pi</b> .....   | Philippines                  |
| <b>Aus</b> .....   | Australia                                | <b>Gha</b> .....  | Ghana   | <b>Por</b> .....  | Portugal                     |
| <b>Az</b> .....    | Azerbaijan                               | <b>Gr</b> .....   | Greece  | <b>Py</b> .....   | Paraguay                     |
| <b>BF</b> .....    | Burkina Faso                             | <b>GuB</b> .....  | Guinea Bissau                                       | <b>Q</b> .....    | Qatar                        |
| <b>BIOT</b> .....  | British Indian Ocean Territory           | <b>Gua</b> .....  | Guatemala   | <b>R</b> .....    | Romania                      |
| <b>Bds</b> .....   | Barbados                                 | <b>Gui</b> .....  | Guinea  | <b>RC</b> .....   | Congo                        |
| <b>Be</b> .....    | Belgium                                  | <b>Guy</b> .....  | Guyana  | <b>RF</b> .....   | Russia                       |
| <b>Bel</b> .....   | Belarus                                  | <b>HKJ</b> .....  | Jordan  | <b>RH</b> .....   | Haiti                        |
| <b>Bg</b> .....    | Bulgaria                                 | <b>Hr</b> .....   | Honduras  | <b>RIM</b> .....  | Mauritania                   |
| <b>BiH</b> .....   | Bosnia-Herzegovina                       | <b>Hu</b> .....   | Hungary   | <b>RL</b> .....   | Lebanon                      |
| <b>Bn</b> .....    | Benin                                    | <b>Icl</b> .....  | Iceland   | <b>RMI</b> .....  | Republic of Marshall Islands |
| <b>Bng</b> .....   | Bangladesh                               | <b>Il</b> .....   | Israel  | <b>RMM</b> .....  | Mali                         |
| <b>Bol</b> .....   | Bolivia                                  | <b>Ind</b> .....  | India   | <b>ROC</b> .....  | Taiwan (Republic of China)   |
| <b>Br</b> .....    | Brazil                                   | <b>Indo</b> ..... | Indonesia   | <b>ROK</b> .....  | Korea, Republic of           |
| <b>Brn</b> .....   | Bahrain                                  | <b>Ir</b> .....   | Iran  | <b>RSA</b> .....  | South Africa                 |
| <b>Bru</b> .....   | Brunei                                   | <b>Irl</b> .....  | Ireland   | <b>Rwa</b> .....  | Rwanda                       |
| <b>Bs</b> .....    | Bahamas                                  | <b>Irq</b> .....  | Iraq  | <b>SB</b> .....   | Solomon Islands              |
| <b>Btwa</b> .....  | Botswana                                 | <b>It</b> .....   | Italy   | <b>SF</b> .....   | Finland                      |
| <b>Bu</b> .....    | Burundi                                  | <b>J</b> .....    | Japan   | <b>SL</b> .....   | Sierra Leone                 |
| <b>Bze</b> .....   | Belize                                   | <b>Ja</b> .....   | Jamaica   | <b>SR</b> .....   | Somali Republic              |
| <b>C</b> .....     | Cuba                                     | <b>Kaz</b> .....  | Kazakhstan  | <b>ST</b> .....   | Sao Tome and Principe        |
| <b>CAR</b> .....   | Central African Republic                 | <b>Kgz</b> .....  | Kyrgyzstan  | <b>Sau</b> .....  | Saudi Arabia                 |
| <b>CH</b> .....    | Switzerland                              | <b>Kwt</b> .....  | Kuwait  | <b>Sdn</b> .....  | Sudan                        |
| <b>CI</b> .....    | Côte D'Ivoire                            | <b>Kya</b> .....  | Kenya   | <b>Sen</b> .....  | Senegal                      |
| <b>CR</b> .....    | Costa Rica                               | <b>L</b> .....    | Lithuania   | <b>Sey</b> .....  | Seychelles                   |
| <b>CV</b> .....    | Cape Verde                               | <b>LAR</b> .....  | Libya   | <b>Sgp</b> .....  | Singapore                    |
| <b>Ca</b> .....    | Canada                                   | <b>Lao</b> .....  | Laos  | <b>Ska</b> .....  | Sri Lanka                    |
| <b>Cam</b> .....   | Cambodia                                 | <b>Lat</b> .....  | Latvia  | <b>Slvk</b> ..... | Slovakia                     |
| <b>Cha</b> .....   | Chad                                     | <b>Lb</b> .....   | Liberia   | <b>Slvn</b> ..... | Slovenia                     |
| <b>Chl</b> .....   | Chile                                    | <b>Ls</b> .....   | Lesotho   | <b>Sme</b> .....  | Suriname                     |
| <b>Co</b> .....    | Colombia                                 | <b>Lu</b> .....   | Luxembourg  | <b>Sp</b> .....   | Spain                        |
| <b>Cr</b> .....    | Croatia                                  | <b>M</b> .....    | Malta   | <b>Swe</b> .....  | Sweden                       |
| <b>Crn</b> .....   | Cameroon                                 | <b>Mal</b> .....  | Malaysia  | <b>Syr</b> .....  | Syria                        |
| <b>Cy</b> .....    | Cyprus                                   | <b>Mdg</b> .....  | Madagascar  | <b>TL</b> .....   | East Timor                   |
| <b>Cz</b> .....    | Czech Republic                           | <b>Mex</b> .....  | Mexico  | <b>TT</b> .....   | Trinidad and Tobago          |
| <b>DPRK</b> .....  | Korea, Democratic Peoples<br>Republic of | <b>Mgl</b> .....  | Mongolia  | <b>Tg</b> .....   | Togo                         |
| <b>DR</b> .....    | Dominican Republic                       | <b>Miw</b> .....  | Malawi  | <b>Th</b> .....   | Thailand                     |
| <b>DROC</b> .....  | Democratic Republic of Congo             | <b>Mol</b> .....  | Moldova   | <b>Tjk</b> .....  | Tajikistan                   |
| <b>Da</b> .....    | Denmark                                  | <b>Mor</b> .....  | Morocco   | <b>Tkm</b> .....  | Turkmenistan                 |
| <b>Dj</b> .....    | Djibouti                                 | <b>Moz</b> .....  | Mozambique  | <b>Tn</b> .....   | Tunisia                      |
| <b>EG</b> .....    | Equatorial Guinea                        | <b>Ms</b> .....   | Mauritius   | <b>Tu</b> .....   | Turkey                       |
| <b>Ea</b> .....    | Estonia                                  | <b>My</b> .....   | Myanmar   | <b>Tz</b> .....   | Tanzania                     |
| <b>Ec</b> .....    | Ecuador                                  | <b>N</b> .....    | Nepal   | <b>UAE</b> .....  | United Arab Emirates         |
| <b>EIS</b> .....   | El Salvador                              | <b>NC</b> .....   | New Caledonia                                       | <b>UK</b> .....   | United Kingdom               |
| <b>Er</b> .....    | Eritrea                                  | <b>NZ</b> .....   | New Zealand   | <b>US</b> .....   | United States                |
| <b>Et</b> .....    | Egypt                                    | <b>Nba</b> .....  | Namibia   | <b>Uga</b> .....  | Uganda                       |
| <b>Eth</b> .....   | Ethiopia                                 | <b>Nga</b> .....  | Nigeria   | <b>Ukr</b> .....  | Ukraine                      |
| <b>FI</b> .....    | Falkland Islands                         | <b>Ngr</b> .....  | Niger   | <b>Ury</b> .....  | Uruguay                      |
| <b>FRY</b> .....   | Serbia and Montenegro                    | <b>Nic</b> .....  | Nicaragua   | <b>Uz</b> .....   | Uzbekistan                   |
| <b>FSU</b> .....   | Former Soviet Union                      | <b>NI</b> .....   | Netherlands   | <b>Ve</b> .....   | Venezuela                    |
| <b>FYROM</b> ..... | Macedonia, Former Yugoslav<br>Republic   | <b>No</b> .....   | Norway  | <b>Vn</b> .....   | Vietnam                      |
| <b>Fji</b> .....   | Fiji                                     | <b>O</b> .....    | Oman  | <b>Ye</b> .....   | Yemen, Republic of           |
|                    |  | <b>PA</b> ..      | Palestinian Autonomous Areas of Gaza<br>and Jericho | <b>Z</b> .....    | Zambia                       |
|                    |  |                   |   | <b>Zw</b> .....   | Zimbabwe                     |