

Significant Dates in Soviet History

- 1917—February Revolution. Nicholas II abdicates (March 15). October Revolution. Bolsheviks seize power (November 7–8).
- 1918—Treaty of Brest-Litovsk ends Russia's participation in World War I (March 3). Russian Civil War begins. Fighting lasts until 1920 in western regions of the country and until 1922 in far eastern regions.
- 1921—Russo-Polish War. A naval mutiny at Kronshtadt/Petrograd is put down by the Red Army (March 7–18).
- 1922—Union of Soviet Socialist Republics is established (December 30).
- 1936—The Soviet Union aids the Republicans during the Spanish Civil War (through 1939).
- 1937—Stalin initiates his Great Purges of the Soviet military. The purges continue through 1938.
- 1939—Soviet forces battle Japanese forces at Khalkhin Gol in Outer Mongolia (May–August). The Soviets sign a nonaggression pact with Nazi Germany (August 23). Hitler's invasion of Poland begins World War II (September 1). The Soviets join the Germans in the invasion of Poland (September 17). War breaks out between the Soviet Union and Finland on November 30 and lasts into March 1940.
- 1940—The independent Baltic republics of Lithuania, Latvia, and Estonia are occupied by the Soviets and are incorporated into the USSR (July–August).
- 1941—The Soviets and Japanese conclude a treaty of neutrality (April 13). Germany invades the Soviet Union (June 22). German forces push to the gates of Moscow, but are turned back by the Soviets (September 30–December 5). The US approves Lend-Lease to the USSR (November).

1942—The Battle of Stalingrad is fought (November to February 1943).
1943—The Battle of Kursk is fought (July

- 5–August 23).
- 1945—Berlin falls to Soviet troops (May 2). Germany surrenders to the Allies (May 8). The Soviet Union declares war on Japan (August 8). Japan surrenders to the Allies (September 2).
- 1948—The Soviets begin the Berlin Blockade (April 1 through September 1949).
- 1949—The Soviets explode an atomic bomb (August 29).
- 1953—The Soviets explode a hydrogen bomb (August 12).
- 1955—The Warsaw Pact organization is established (May 14).
- **1956**—Soviet forces crush the Hungarian uprising (November 4).
- 1957—The Soviet Union announces its first successful ICBM test (August 26). The first Sputnik earth-orbiting satellite is launched by the Soviets (October 4).
- 1960—An American U-2 is shot down over the USSR (May 1). A rift begins to develop between the USSR and the People's Republic of China (approximate).
- 1961—The Soviets begin construction of the Berlin Wall (August 13).
- 1962—The Cuban Missile Crisis occurs (October 22–November 2).
- 1968—Soviet forces invade Czechoslovakia (August 20–21).
- 1969—The USSR clashes with China along the Sino-Soviet border.
- 1972—The US and the USSR sign the SALT I accord (May 22).
- 1979—The US and the USSR initial the SALT II accord (June 18). The Soviets invade Afghanistan (December 25).
- 1983—Soviet fighters down KAL 007, a civilian South Korean airliner that had strayed into Soviet airspace (September 1).

Information for this Soviet Aerospace Almanac was compiled by the staff of AIR FORCE Magazine from a variety of open sources. Since the Soviets publish relatively little data about their armed forces, some details are necessarily estimates.

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-THE EDITORS

Top Soviet Aces of World War II

Men	Solo Victories
Kozhedub, I. N.	62
Pokryshkin, A. I.	59
Gulaev, N. D.	57
Rechkalov, G. A.	56
Yevstigneyev, K. A.	56
Vorozheykin, A. V.	52
Glinka, D. B.	50
Women	
Yamschikova, O.	17
Litvyak, L.	12
Budanova, K.	10
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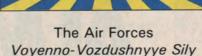
More than 800 Soviet aviators claimed sixteen or more victories in the "Great Patriotic War." Many of these—including Gulaev, Rechkalov, and Yevstigneyev—are additionally credited with shared victories in "group flights."

Flags of the Armed Forces



The Ground Forces Sukhoputnyye Voyska (SV)





(VVS)



The Navy Voyenno-Morskoy Flot (VMF)

The Military Uniform

Soviet uniforms can vary widely, depending on the rank, service, and position of the wearer as well as the season, occasion, and environment. The following distinctions are applicable to a Soviet equivalent of a USAF officer's Class-A uniform.

• The color of the collar tabs indicates the branch of service. The hatband of the billed cap will be the same color as the collar tabs. Some examples: light blue = aviation and airborne; red = combined arms; black = rocket, artillery, armor, and most technical (chemical, etc.) troops; royal blue = KGB (except Border Guards); and green = KGB Border Guards.

• The branch emblem on the tab indicates the individual's specialty. Some examples: propeller and wings = aviation, parachute = airborne, wreath and star = motorized rifle, crossed barrels = rocket and artillery, and tank = armor.

• Shoulder boards indicate grade (see chart on adjacent page).

• The right side of the blouse will display qualifications and classification badges, including aviator wings and elite unit designations.

A Typical Day for a Soviet Conscript

0600-0609	Reveille
0610-0630	Exercise (tidying up)
0630-0650	Barracks time
0650-0720	Political information (morning inspection)
0725-0755	Breakfast
0800-1400	Training periods (six fifty-minute
	periods with ten-minute breaks between)
1400-1440	Dinner
1440-1510	After dinner time
1510-1530	Maintenance: personal, weapon, and equipment
1530-1830	Political education work (Monday and Thursday)
	Equipment maintenance (Tuesday and Friday)
	Sports (Wednesday and Saturday)
1830-1940	Self-preparation or homework
1940-2010	Supper
2010-2040	Personal time
2040-2155	Evening walk and checkup
2200	Taps

Official and Military Holidays

Official Holidays of the USSR

(Workers are given time off on these days)

January 1 March 8 May 1 & 2

May 9 October 7

November 7 & 8

New Year's Day International Women's Day International Workers' Solidarity Days Victory Day Constitution Day of the USSR Anniversary of the Great October Socialist Revolution

Key Military Days of the USSR

(Time off from work is not normally given, but celebrations are held)

February 23 April 12

Second Sunday of April May 28 First Sunday after July 22 Third Sunday of August

Second Sunday of September November 10 November 19 Soviet Army and Navy Day World Aviation and Cosmonautics Day Troops of Air Defense Day Border Troops Day Navy Day USSR Air Force Day (Aviation Day) Tank Forces Day

Soviet Militia Day Rocket and Artillery Forces Day

Soviet Active Military Population

(As of July 1, 1985)

Ground Forces	1,991,000
Air Forces	453,000
Naval Forces	434,000
Air Defense	371,000
Strategic Attack (includes Strategic Rocket	410,000
Forces and strategic elements of the Air	
Forces and Navy)	
Command/General Support	1,471,000
Security Forces (KGB/MVD)	570,000
Total	5,700,000

Comparative Grades and Insignia



Glavnyi Marshal Aviatsii General of the Air Force



General-Mayor Aviatsii Brigadier General



Kapitan Captain



Marshal Aviatsii General



Polkovnik Colonel



Starshiy Leytenant 1st Lieutenant



General-Polkovnik Aviatsii Lieutenant General



Podpolkovnik Lieutenant Colonel



Leytenant 2d Lieutenant



General-Leytenant Aviatsii Major General



Mayor Major



Mladshiy Leytenant 2d Lieutenant



Starshiy Praporshchik Senior Warrant Officer



Serzhant Master Sergeant



Praporshchik Warrant Officer



Mladshiy Serzhant Staff Sergeant



Starshina Chief Master Sergeant



Efreytor Airman First Class

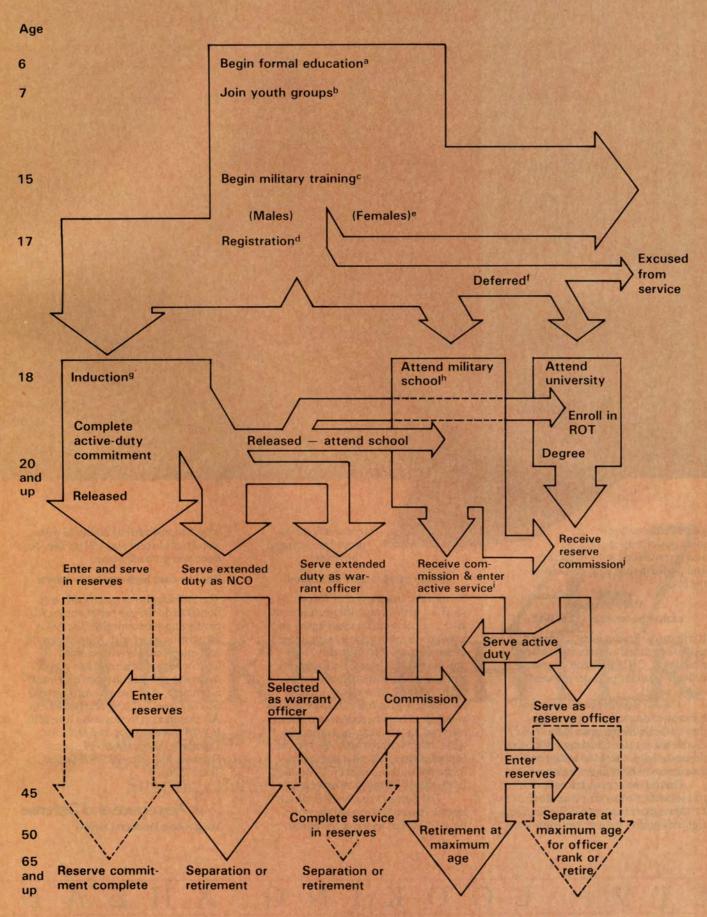


Starshiy Serzhant Senior Master Sergeant



Ryadovoy Airman Basic

THE SOVIET MILITARY EXPERIENCE



Footnotes

- ^a Formal education begins at age 6; eleven years of schooling required.
- ^bYouth groups include Little Octobrists (ages 7-9), Young Pioneers (10-14/15), and Komsomol, the All-Union Communist Union of Youth (14-28).
- ^c At age 15, Soviet teenagers begin military training and receive a minimum of 140 hours before induction. Boys get thirty additional hours during summer camp. First aid is emphasized for girls.
- ^d By age 17, all males must register for military service. They may be assigned to specific training prior to induction.
- ^e Soviet law provides for conscription of women, but in practice this is not done. However, women may volunteer. A very few women are commissioned officers.
- ^f Few deferments from military service are granted; the majority of these allows selected students to attend approved schools to learn skills critically needed by the state or military. Males enroll concurrently in Reserve Officer Training (ROT). In rare instances, males may be deferred for health or family reasons and excused from their active commitment upon reaching age 27.
- ⁹Most Soviet males are inducted for enlisted service at the age of 18. Call-ups are held annually in the spring and fall. Conscripts rarely have a choice of service or branch. The usual term of service is two years for the Army and Navy ashore and three years for the Navy afloat.
- ^hMales who qualify by competitive examination and political recommendation may attend one of about 140 higher military schools. These schools are the primary sources of active-duty officers.
- ⁱ The Soviet military does not have an "up-or-out" policy for officers, but does impose maximum ages on active service according to rank. An officer who reaches his maximum age but is not eligible for retirement will be transferred to the reserves.
- ¹ The Soviet armed services require a large number of reserve officers. Citizens receiving reserve commissions may spend their entire careers as part-time reservists, or they may be called to a period of active duty, particularly if they possess critical skills.



The Military Oath

Soviet officers and enlisted members take the same oath. The text printed below is the official Soviet translation.

I, citizen of the Union of Soviet Socialist Republics, joining the ranks of the Armed Forces, take the oath and solemnly pledge to be a conscientious, brave, disciplined and vigilant warrior, strictly to observe military and state secrets, to observe the constitution of the USSR and Soviet laws, unquestioningly to carry out the requirements of all military regulations and orders of commanders and superiors.

I pledge conscientiously to study military science, to preserve in every way military and public property and to remain devoted till my last breath to my people, my Soviet homeland, and the Soviet government.

I am prepared at all times, on orders from the Soviet government, to come out in defense of my homeland, the Union of Soviet Socialist Republics. I pledge to defend it courageously, skillfully, with dignity and honor, without sparing my blood and life in securing complete victory over the enemies.

If I break this solemn vow, may I be severely punished by the Soviet people, universally hated, and despised by the working people.

Col. G. Kobozev described the Soviet military oath thusly in *Soviet Military Review* in 1983: "If you ask [a Soviet] ex-serviceman or serviceman which was the most memorable day in his life, he will, in most cases, say that it was the day when he took the Oath of Allegiance. And that is quite natural, because it is a solemn pledge of loyalty to his Homeland. As soon as a man takes it, he assumes responsibility for the fate of his country and people, he swears he will defend them to his last breath, to the last drop of his blood."

Soviet Theater Estimates

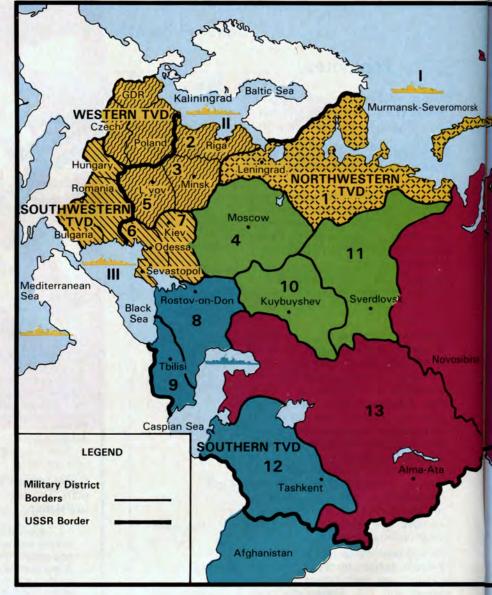
COMBAT ORGANIZATION

Normal peacetime command and control of Soviet combat forces (excepting strategic elements, some air defense assets, and KGB and MVD units) is primarily exercised through the Commanders of the sixteen Military Districts, the four Naval Fleets within the country, and the four Groups of Soviet Forces in eastern Europe. District commanders are responsible for the training and housekeeping of the diverse forces in their geographic area; individual services handle administrative support.

In wartime, operational control would shift to Theaters of Military Operations (TVD - Teatr Voyennykh Deystviy), which could include several "fronts." In some instances, district commanders would become the TVD commanders. Fifteen TVDs have been tentatively identified. Some of these may be grouped into continental Theaters of War (TV -Teatr Voyny). While the Far Eastern and Southern TVs probably correspond to their TVDs, the Western TV most likely includes the Northwestern, Western, and Southwestern TVDs.

Commanders of TVDs and TVs are combined-arms commanders, directing all operations in their areas during conflict and reporting directly to the Soviet Supreme High Command. The Soviets consider the Western TV the most important, and its commander holds a position of special responsibility — perhaps extending to control of all Warsaw Pact forces in wartime.

The Soviets have never published specific information on TVs or TVDs.



FAR EAST THEATER

Far East TVD

Divisions	53
Tanks	14,900
Artillery ²	15,200
Tactical Aircraft	1,690

Pacific Ocean TVD

Pacific Ocean Fleet

Aircraft Carriers	2
Principal Surface Combatant	s 85
Other Combatant Craft	354
Auxiliaries	235
Submarines ³	110
Naval Aviation	500
Naval Infantry Division	1

WESTERN THEATER¹

OCO Northwestern TVD

Divisions	10
Tanks	1,400
Artillery ²	2,375
Tactical Aircraft	225

NINC Southwestern TVD

Divisions	26
Tanks	6,890
Artillery ²	5,670
Tactical Aircraft	890

Western TVD

62
19,680
15,750
2,290

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Atlantic TVD

Baltic Fleet

Principal Surface Combata	nts 43
Other Combatant Craft	347
Auxiliaries	170
Submarines	33
Naval Aviation	270
Naval Infantry Brigade	1

Black Sea Fleet

Aircraft Carriers	1
Principal Surface Combatants	74
Other Combatant Craft	235
Auxiliaries	150
Submarines	33
Naval Aviation	435
Naval Infantry Brigade	1

Mediterranean Squadron

(units drawn from Black Sea and Northern Fleets)

Ships, average	30-40
Submarines	6-8
Cruisers	1-2
Destroyers	1-3
Frigates	3-5
Amphibious Warfare Ships	5 1-2
Mine Warfare Ships	1-2
Auxiliaries	17 - 18

Arctic TVD

Northern Fleet	
Principal Surface Combatants	80
Other Combatant Craft	132
Auxiliaries	200
Submarines ³	142
Naval Aviation	440
Naval Infantry Brigade	1

MILITARY DISTRICTS

- 1. Leningrad
- 2. Baltic
- 3. Belorussian
- 4. Moscow
- 5. Carpathian
- 6. Odessa
- 7. Kiev
- 8. North Caucasus
- 9. Trans-Caucasus
- 10. Volga
- 11. Ural
- 12. Turkestan
- 13. Central Asian
- 14. Siberian
- 15. Trans-Baykal
- 16. Far Eastern

FLEETS

- I. Northern
- II. Baltic
- III. Black Sea
- IV. Pacific Ocean

¹ During wartime, the Western Theater would comprise the Northwestern, Western, and Southwestern Theaters of Military Operations (TVDs).

² This category includes all field artillery, mortars, and multiple rocket launchers 100 mm in size or greater.

³ Not including SSBNs.

SOUTHERN THEATER

Southern TVD

Divisions	30
Tanks	5,200
Artillery ²	6,600
Tactical Aircraft	890

Caspian Flotilla

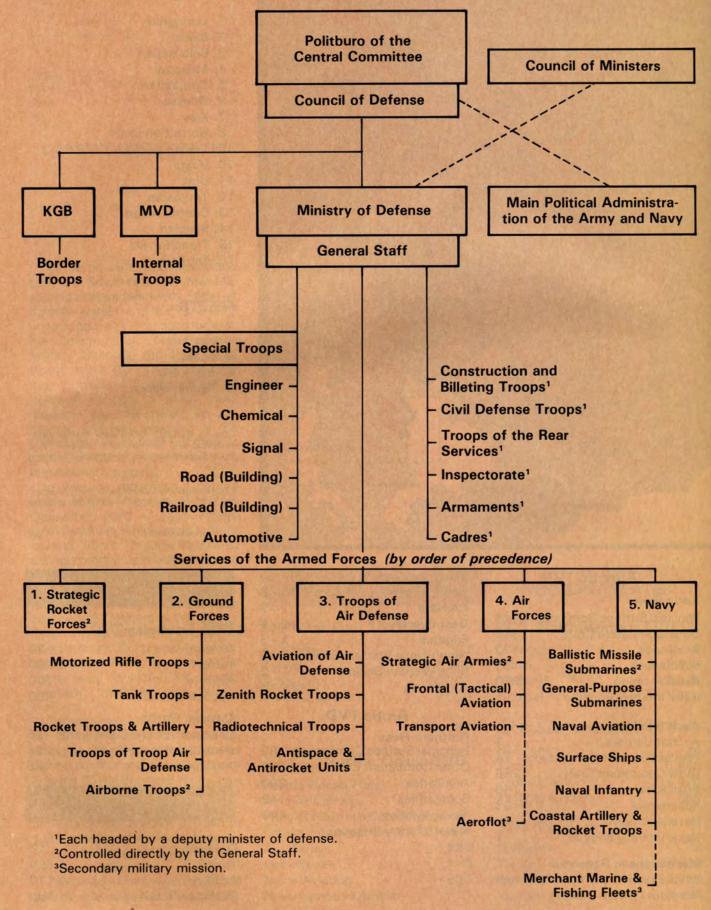
Principal Surface Combatants	5
Other Combatant Craft	65
Auxiliaries	25

STRATEGIC RESERVES

Divisions	18
Tanks	4,590
Artillery ²	4,170
Tactical Aircraft	150

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The Soviet Military Establishment



Lineup of Soviet Military Power

(As of January 1, 1985)

Strategic Nuclear Missiles

- 1,398-Intercontinental ballistic missiles (ICBM). SS-11: 520. SS-13: 60. SS-17: 150 (with 600 warheads). SS-18: 308 (with 3,080 warheads). SS-19: 360 (with 2,160 warheads). SS-25 deployments are believed to have started in mid-1985.
- 982-Submarine-launched ballistic missiles (SLBM). SS-N-5: 39. SS-N-6: 336. SS-N-8: 286. SXS-N-8: 6. SS-N-17: 12. SS-N-18: 224. SS-N-20: 60. SS-N-23: 16.
- 534-Intermediate/medium-range ballistic missiles (IRBM/MRBM). SS-4: 120 (all based west of the Urals). SS-20: 414 (272 west of the Urals, 142 east of the Urals).

Air Defense

- 1,200 + -Interceptors (aircraft in operational units only). MiG-23 Flogger: 430. MiG-25 Foxbat: 300. Su-15 Flagon: 225. Tu-28/-128 Fiddler: 90. Yak-28 Firebar: 80. MiG-31 Foxhound: 75.
- 9,565-Strategic surface-to-air missile (SAM) launchers. SA-1: 2,875. SA-2: 2,900. SA-3: 1,250. SA-5: 2,020. SA-10: 520.
- 4,225-Tactical SAM launchers. SA-4: 1,350. SA-6: 875. SA-8: 700. SA-9: 575. SA-11: 50. SA-13: 675. The SA-X-12 is under development.
- 13-Airborne warning and control aircraft. Tu-126 Moss: 9. II-76 Mainstay: 4
- -Antiballistic missile launchers. ABM-1B Galosh (SH-04 and SH-08 are being emplaced).
- 7,000 +-Warning systems. These include early warning and ground control intercept radars and satellites.

Air Forces

173-Long-range strategic bombers. Tu-95 Bear: 125. Mya-4 Bison: 48. Blackjack is undergoing flight test.

553-Medium-range bombers. Tu-22M Backfire: 130. Tu-16 Badger: 287. Tu-22 Blinder: 136.

- 2,850-Tactical counterair interceptors. MiG-21 Fishbed: 585. MiG-23 Flogger: 1,745. MiG-25 Foxbat: 130. Su-15 Flagon: 340. Tu-128 Fiddler: 25. Yak-28 Firebar: 25.
- 2,650-Ground attack aircraft. MiG-21 Fishbed: 135. MiG-27 Flogger: 790. Su-7/-17 Fitter: 1,020. Su-24 Fencer: 635 (of which 450 are assigned to the strategic air armies as strike/attack aircraft). Su-25 Frogfoot: 70.

50-Tanker aircraft. Mya-4 Bison: 30. Tu-16 Badger: 20.

- 635-Tactical reconnaissance and electronic countermeasures aircraft. MiG-21 Fishbed: 60. MiG-25 Foxbat: 170. Su-17 Fitter: 175. Su-24 Fencer: 10. Yak-28 Brewer: 220.
- 260-Strategic reconnaissance and ECM aircraft. Tu-16 Badger: 115. Tu-22 Blinder: 15. Tu-95 Bear: 4. Yak-28 Brewer: 102. MiG-25 Foxbat: 24
- 2,650-Attack assault helicopters (including Mi-8 Hip and Mi-24 Hind aircraft).
- 1,700-Training aircraft (including 1,000 fixed-wing and 700 rotarywing aircraft)
- 568—Military air transports assigned to Transport Aviation (VTA). An-22 Cock: 55. An-12 Cub: 260. II-76 Candid: 250. An-124 Condor: 3

- 1,250-Transports assigned to military districts and commands include An-2 Colt, An-24 Coke, An-26 Curl, and II-14 Crate aircraft. 1,600-Civil aviation aircraft (Aeroflot). An-12 Cub: 150. II-76 Candid:
 - 50. Other medium- and long-range transports: 1,400.

Ground Forces

- 52,660-Main battle tanks. T-54/-55/-62: 33,600. T-64: 9,300. T-72/-80: 9.760
- 1,470-Surface-to-surface missiles. FROG-7: 700. SS-21: 50. SS-1 Scud B/SS-23: 590. SS-12 Scaleboard/SS-22: 130.
- 49,765—Artillery pieces, mortars, and multiple rocket launchers. Artillery pieces: 29,200. Mortars: 10,715. MRLs: 6,200. Antitank artillery: 3 650

59,100—Infantry fighting vehicles and armored personnel carriers. 4,095—Combat and support helicopters. Mi-2 Hoplite: 740. Mi-4 Hound: 20. Mi-6 Hook: 450. Mi-8 Hip: 1,750. Mi-24 Hind: 1,125. Mi-26 Halo: 10. Mi-28 Havoc and Hokum are in development.

Naval Forces

- 78-Ballistic missile submarines. Delta: 36. Hotel: 2. Yankee: 23. Typhoon: 3. Golf: 14.
- 127-Nuclear-powered general-purpose submarines. Cruise missile attack: 49. Attack: 67. Other: 11
- 160—Diesel- and electric-powered general-purpose submarines. Cruise missile: 18. Attack: 138. Training: 4.

15-Auxiliary submarines.

- 3-V/STOL aircraft carriers (Kiev class).
- 2-Aviation cruisers (Moskva class).
- 38-Cruisers. Kirov class nuclear-powered guided missile: 2. Sverdlov class light: 9. Guided missile: 27.
- -Destroyers (including 45 guided missile destroyers).
- 177-Frigates and corvettes (including 32 Krivak class guided missile frigates).
- 955-Small surface ship combatants. Patrol: 160. Coastal and river patrol: 410. Mine warfare: 385.

178-Amphibious warfare ships and craft.

780-Auxiliary ships. Mobile logistics: 150. Fleet support: 145. Other: 485.

Naval Aviation

375-Strike and bomber aircraft. Tu-22M Backfire: 100. Tu-16 Badger: 240. Tu-22 Blinder: 35.

135-Fighter and fighter-bomber aircraft. Su-17 Fitter: 75. Yak-36 Forger A: 60.

-Tankers (Tu-16 Badger).

175-Reconnaissance and electronic warfare aircraft. Tu-16 Badger: 80. Tu-95 Bear D: 15. Tu-22 Blinder: 20. An-12 Cub: 25. Other aircraft: 35

205--Antisubmarine aircraft. Tu-142 Bear F: 60. Be-12 Mail: 95. II-38 May: 50.

410-Transport and training aircraft.

350-Helicopters (various roles). Mi-14 Haze A: 105. Ka-27 Helix A: 50. Ka-25 Hormone A: 120. Hormone B: 70. Hip: few.

Alliances and Treaties

Prior to the 1970s, the Soviet Union maintained very few alliances or treaties with other nations. The Warsaw Pact, initiated by the Soviets in 1955 as a response to NATO, remains the only multinational defense alliance to which it is a signatory.

Known bilateral treaties of military significance are listed. Others may exist, but, if so, have been kept secret by the signatories. The USSR also maintains bilateral arrangements with each of the other Warsaw Pact countries.

Multinational Alliances

· Warsaw Pact Organization. Members include Bulgaria, Czechoslovakia, East Germany, Hungary, Poland, Romania, and the USSR. Albania was an original signatory, but was excluded from the Pact in 1962. Pact Headquarters is in Moscow; the Pact's Commander in Chief is a Soviet Marshal.

Bilateral Treaties

Afghanistan: Friendship, Cooperation, and Mutual Assistance (1978).

- Angola: Friendship and Cooperation (1976); Military Cooperation Agreement (1983).
- Congo: Friendship and Cooperation (1981).
- Ethiopia: Friendship and Cooperation (1978).
- · Finland: Mutual Assistance (1948).
- India: Friendship, Cooperation, and Mutual Assistance (1971).
- . Iran: Provisions of a treaty dating from 1921 between what was then Persia and the USSR were abrogated by Iran in 1979. These provisions permitted Soviet intervention in Iran if a third party should attempt an attack against the USSR from Iranian soil. The Soviets have not recognized this unilateral abrogation.
- Iraq: Friendship, Cooperation, and Mutual Assistance (1972, 1978).
- Mongolia: alliance (1921); defense treaty (1966).
- Mozambique: Friendship and Cooperation (1977).
- North Korea: Friendship, Cooperation, and Mutual Assistance (1961). North Yemen: Friendship (1984).
- South Yemen: Friendship, Cooperation, and Mutual Assistance (1980); Agreement of Joint Cooperation (1983).
- Syria: Friendship, Cooperation, and Mutual Assistance (1980). Turkey: Nonaggression Pact (1978).

• Vietnam: Friendship, Cooperation, and Mutual Assistance (1978).

Comparison of Key Military Technologies As of January 1, 1986

Aerodynamics/Fluid Dynamics		
Computers & Software		6 C
Conventional Warhead (including Chemical Explosives)		
Directed Energy (Lasers)	18	Sector Col
Electro-Optical Sensor (including IR)		
Guidance & Navigation		
Life Sciences	1	L. Carl
Microelectronic Materials & Integrated Circuit Manufacture	2	
Nuclear Warhead		
Optics		
Power Sources (Mobile)		
Production Manufacturing (includes Automated Control)		
Propulsion (Aerospace and Ground Vehicles)	•	
Radar Sensor	•	
Robotics and Artificial Intelligence		18
Signal Processing		M. CARE
Stealth (Signature Reduction Technology)		124/16
Structural Materials (Light-weight, High-strength)	•	
Submarine Detection	•	
Telecommunications	4	Date In 1
US Superior		A.L.
US-USSR Equal	1	Para and

Indicates US Lead is Diminishing Indicates US Lead is Increasing

4



Significant **Military Deployments Outside the Soviet Union**

(As of July 1985)

EUROPE Warsaw Pact Countries

ASIA	
Afghanistan ^{1,4}	115,000
Mongolia	75,000
Vietnam ²	2,500
Laos	500
India	200
Kampuchea	200

715,000

MIDEAST

2,500
1,000
600
500

AFRICA³

Ethiopia ⁴	1,500
Libya ⁴	1,400
Algeria	1,000
Angola ⁴	500
Mozambique ⁴	300
Mali	200
Congo ⁴	100

LATIN AMERICA

Cuba ⁵	5,600
Peru	160
Nicaragua ⁴	50

1 Total includes an estimated 10,000 MVD and KGB

forces. 2 Estimate does not include transient Soviet naval presence.

 About 900 additional Soviet military advisors are de-ployed in smaller numbers to many other African nations.

4 Significant Cuban military forces are also deployed to this country. 5 Does not include an estimated 3,100 Soviet techni-cians in Cuba.

Aeroflot

Aeroflot, with a fleet of more than 1,600 aircraft, is the only Soviet civil air carrier and the world's largest airline. The operation is state-run and extensive; Aeroflot serves 3,600 cities and towns within the USSR and flies international routes to more than eighty other countries. Aeroflot is also responsible for maintaining all Soviet airports, navigation services, and flying clubs and additionally conducts aerial agriculture, forest fire patrol, survey, and air ambulance work. While many Western observers judge Aeroflot's service to be generally inferior to that of commercial airlines, it was the first carrier to introduce jetliner (T-104) service and the first to operate a supersonic passenger aircraft (Tu-144).

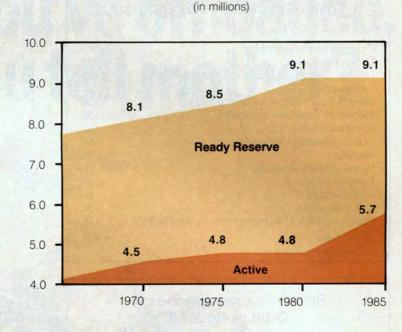
The military applications of this large airfleet are unquestionable. Aeroflot is headed by a chief marshal of aviation, one of only two active-duty military officers currently holding that rank in the Soviet Union. Aeroflot also operates several hundred military air transports as part of its civil fleet, while 1,400 other long- and medium-range transports are usable for military support without major refurbishing.

Recipients of Soviet Military Exports

(Ranked by value of Soviet military equipment received, 1984–85)

- 1. Syria
- 2. Iraq
- 3. Libya
- 4. Vietnam
- 5. India
- 6. East Germany
- 7. Cuba
- 8. Poland
- 9. Algeria
- 10. Czechoslovakia

Trends in Soviet Military Force Levels



Soviet Aircraft Designations

The several parts of a Soviet aircraft designation have distinct meanings. Take the designation "MiG-21MF Fishbed J" as an example.

MiG is an abbreviation of the design bureau responsible for the aircraft—Mikoyan and Gurevich (the bureau's originators) in this case. Other examples are Su for Sukhoi (or Sukhoy), Tu for Tupolev, and Yak for Yakovlev.

The numeral 21 is the model number of the production aircraft. Odd numerals are assigned to fighters, even numerals to bombers and transports.

The letter arrangement MF is the progressive development suffix. M stands for modified or modified for export, F for boosted. Other examples are A for aerodynamic refinement, B for attack or bomber version, *bis* for a reinitialized suffix, P for interceptor version, S for boundary layer blowing, and U or Uti for trainer.

Fishbed is the identifying code name assigned to this MiG series by NATO. All important Soviet aircraft are named as they are identified by photographs from a man-operated camera. The first letter of the name identifies the aircraft type—F for fighter, B for bomber, C for cargo or transport, H for helicopter, and M for miscellaneous. A code name of one syllable means the aircraft is propeller-powered; a code name of two syllables means it is jet-powered.

The letter following the name—J in this example—indicates the point in the letter sequence at which this version was identified by NATO.

Top Soviet Military Aircraft Exports

(1984-85)

Aircraft Type	NATO Code Name	Primary Role	Number Exported
MiG-21	Fishbed	Multirole fighter	270
MiG-23/-27	Flogger	Interceptor/ground attack	210
Su-7/-17/-22	Fitter	Ground attack	175
An-32	Cline	Short/medium-range transport	50
MiG-21U	Mongol	Miscellaneous/trainer	40
An-26	Curl	Short-range transport	40
Su-25	Frogfoot	Ground attack	25
MiG-25	Foxbat	Interceptor/reconnaissance	20

Soviet Space Shots by Program

Photo Reconnaissance	647
Communications	233
Related to Manned Spaceflight (Manned: 61; Unmanned: 78)	139
Minor Military (Radar calibration, etc.)	138
Electronic Intelligence (ELINT)	134
Navigation/Geodetic	112
Scientific/Natural Resources	107
Weather	58
Venus or Mars Missions	40
Early Warning	39
ASAT-Related	38
Lunar Missions	30
Fractional Orbital Bombardment System (FOBS)	18
Total	1,733
-Courtesy Teledyne Brown Engineering	1.13

Soviet Space Launches to Orbit or Beyond

1957	2	1967	66	1977	98	
1958	1	1968	74	1978	88	
1959	3	1969	70	1979	87	
1960	3	1970	81	1980	89	
1961	6	1971	83	1981	98	
1962	20	1972	74	1982	101	
1963	17	1973	86	1983	98	
1964	30	1974	81	1984	97	
1965	48	1975	89	1985	96	
1966	44	1976	99			

Soviet Space Firsts

October 1957	Sputnik 1	First artificial earth satellite
November 1957	Sputnik 2	First satellite to collect biological data
September 1959	Luna 2	First lunar probe to hit the moon
October 1959	Luna 3	First photographs of the moon's far side
April 1961	Vostok 1	First manned orbital flight (Cosmonaut Yuri Gagarin)
June 1963	Vostok 6	First woman in space (Cosmonaut Valentina Tereshkova)
October 1964	Voskhod 1	First multiple crew member spaceflight (Cosmonauts Komarov, Yegarov, Feoktistov)
March 1965	Voskhod 2	First space walk (Cosmonaut Alexei Leonov)
January 1966	Luna 9	First soft landing of a probe on the moon
October 1967	Kosmos 186/188	First automatic docking of satellites
November 1968	Kosmos 252	First successful ASAT test
January 1969	Soyuz 4/5	First linkup of manned vehicles and in- orbit crew exchange
October 1969	Soyuz 6/7/8	First triple launch and rendezvous of manned ships
November 1970	Luna 17	First robot vehicle on the moon
April 1971	Salyut 1	First launch of a prototype manned space station
July 1975	Apollo/Soyuz Test Project	First international rendezvous and docking in space
January 1978	Soyuz 27	First manned double docking in space
October 1984	Soyuz T-10/11	Record of 237 days living in space

