

# Russia's non-strategic nuclear force

000km

Missile range



**Nuclear weapon yield:** Amount of chemical explosive (TNT) that produces same energy release. Hiroshima bomb had yield of 13 kilotons (13,000 tons of TNT)

**Russia's nuclear warheads: 5,977** (2022 estimate by Bulletin of Atomic Scientists)

**Strategic offensive warheads**

**2,565**

**Non-strategic, defensive "tactical" warheads**

**1,912**

**Retired warheads awaiting dismantlement**

**1,500**

**Non-strategic air-launched warheads: ~500**

**Delivery systems:** Su-34, Su-24M, MiG-31K interceptors and long range Tu-22M supersonic bombers

MiG-31

**KH-102** (NATO designation, AS-238 Kodiak). Dual-capable supersonic anti-ship and land-attack cruise missile

5,000km

250 kiloton

**KH-47M2 Kinzhal** (Dagger). Hypersonic land-attack missile – speed of Mach 10 (12,300km/h)

1,500-2,000km

500 kiloton

**Naval tactical warheads: ~935**

**Delivery systems:** Yakhont (SS-N-26) supersonic anti-ship cruise missile, Kalibr (SS-N-30A) land-attack cruise missile, nuclear torpedoes, depth charges

Yakhont

300km

Unknown

Oscar II class cruise-missile submarine

**Surface-to-air warheads: ~387**

**Delivery systems:** S-300 and S-400 long-range air defence systems: 290 warheads

**S376** (Gazelle) silo-based anti-ballistic missile system: 68 warheads

**Progress** (SS-N-3C) turbojet-powered, cruise missiles and **Bastion** (SSC-5) coastal defence missile system: 29 warheads

**Iskander-M**  
Road-mobile, surface-to-surface ballistic missile

400-500km

50 kiloton

**Surface-to-surface warheads: ~90**

**Delivery systems:** Iskander-M (SS-26). At least 36 Iskander launchers reported along Ukraine's border: 70 warheads

**Iskander** variant with nuclear-capable **9M729 Novator** (SSC-8) ground-launched cruise missile: 20 warheads

9M729 GLCM

2,500km

10-50 kiloton

# Russian Strategic Nuclear Forces

**Keir A. Lieber, Daryl G. Press**



## **Russian Strategic Nuclear Forces:**

**Russian Strategic Nuclear Forces** Oleg Bukharin, Frank Von Hippel, 2004 A comprehensive databook of technical and institutional facts about the Soviet and Russian nuclear arsenal      **Russian Strategic Nuclear Forces (Chapter 1)**, 2001

**The Nuclear Challenge** Christoph Bluth, 2019-07-16 This title was first published in 2000 Christoph Bluth provides a comprehensive and timely analysis of strategic nuclear arms policy in the United States and Russia and examines the collaborative efforts to reduce nuclear weapons through arms control and render nuclear weapons and fissile materials in Russia secure He concludes that the end of the Cold War has created new and unprecedented dangers and that these dangers require a greater political will and cooperation which have so far been lacking      **Russian Nuclear Weapons** Stephen Blank, 2011 This book presents several essays analyzing Russia's extensive nuclear agenda and the issues connected with it It deals with strategy doctrine European Eurasian and East Asian security agendas as well as the central U S Russia nuclear and arms control equations This work brings together American European and Russian analysts to discuss Russia's defense and conventional forces reforms and their impact on nuclear forces doctrine strategy and the critical issues of Russian security policies toward the United States Europe and China It also deals directly with the present and future roles of nuclear weapons in Russian defense policy and strategy      *Nuclear Deterrence in Europe* James T. Quinlivan, Olga Olikier, 2011-08-05 Through a variety of policies and actions and most recently in a new military doctrine adopted in February 2010 Russia has indicated the types of situations and threats that might cause it to resort to using nuclear weapons This volume examines Russia's evolving framework for nuclear deterrence and its implications for U S military operations in Europe      *The United States, Russia and Nuclear Peace* Stephen J. Cimbala, 2020-02-03 This book analyzes the United States and Russia's nuclear arms control and deterrence relationships and how these countries must lead current and prospective efforts to support future nuclear arms control and nonproliferation The second nuclear age following the end of the Cold War and the demise of the Soviet Union poses new challenges with respect to nuclear strategic stability deterrence and nonproliferation The spread of nuclear weapons in Asia and the potential for new nuclear weapons states in the Middle East create new possible axes of conflict potentially stressful to the existing world order Other uncertainties include the interest of major powers in developing a wider spectrum of nuclear weapons and delivery systems possibly for use in limited nuclear wars and the competitive technologies for antimissile defenses being developed and deployed by the United States and Russia Other technology challenges including the implications of cyberwar for nuclear deterrence and crisis management are also considered Political changes also matter The early post Cold War hopes for the emergence of a global pacific security community excluding the possibility of major war have been dashed by political conflict between Russia and NATO by the roiled nature of American domestic politics with respect to international security and by a more assertive and militarily competent China Additionally the study includes suggestions for both analysis and policy in order to prevent the

renewed U S Russian nuclear arms race and competition in new technologies This volume would be ideal for graduate students researchers scholars and anyone who is interested in nuclear policy international studies and Russian politics

### **Strategic Missile Forces of the Russian Federation: Organisation and Missile Complexes** Hugh

Harkins,2021-09-16 In the second and third decades of the twenty first century the Russian Federation Strategic Missile Forces the largest arm of the Russian Strategic Nuclear Forces underwent force modernisation to ensure deterrent capability to counter proliferation of North Atlantic Treaty Organisation missile defence systems Capability enhancements and deterrence potential would be ensured through the introduction development of advanced intercontinental ballistic missile complexes Yars and Sarmat armed with a new generation of maneuverable warheads the Avangard hypersonic glide vehicle and longer term the projected Kedr light intercontinental ballistic missile revealed in 2020 The volume draws upon information from official sources to provide a picture of the Strategic Missile Forces and constituent missile systems as understood in early 2021 when it operated RT 2PM Topol RT 2PM2 1 Topol M RS 24 Yars series R 36M2 UR 100N UTKh and Avangard complexes with the RS 28 Sarmat then scheduled to be placed on alert the following year In regard to Avangard and Sarmat information is naturally scarce as these programs were in 2021 shrouded in the highest levels of classification However significant data had been released to provide an informed outline of the systems which along with Yars were intended to constitute the backbone of the Strategic Missile Forces through the third decade of the twenty first century The volume adopts a factual rather than a geopolitical approach and avoids unsubstantiated data The number of strategic strike systems ICBM complexes etc in service and deployed are taken directly from the data submitted by both parties to the New Strategic Arms Reduction Treaty All technical data concerning missile complexes and associated systems missile formations and associated organisations operational data such as the Russian Federations nuclear doctrine thresholds for the use of nuclear weapons along with graphic material has been furnished by the respective design bureau manufacturers experimental research agencies the Ministry of Defence of the Russian Federation and the Ministry of Foreign Affairs of the Russian Federation

### **The Myth of the Nuclear Revolution** Keir A. Lieber,Daryl G. Press,2020-06-15

Leading analysts have predicted for decades that nuclear weapons would help pacify international politics The core notion is that countries protected by these fearsome weapons can stop competing so intensely with their adversaries they can end their arms races scale back their alliances and stop jockeying for strategic territory But rarely have theory and practice been so opposed Why do international relations in the nuclear age remain so competitive Indeed why are today s major geopolitical rivalries intensifying In The Myth of the Nuclear Revolution Keir A Lieber and Daryl G Press tackle the central puzzle of the nuclear age the persistence of intense geopolitical competition in the shadow of nuclear weapons They explain why the Cold War superpowers raced so feverishly against each other why the creation of mutual assured destruction does not ensure peace and why the rapid technological changes of the 21st century will weaken deterrence in critical hotspots

around the world By explaining how the nuclear revolution falls short Lieber and Press discover answers to the most pressing questions about deterrence in the coming decades how much capability is required for a reliable nuclear deterrent how conventional conflicts may become nuclear wars and how great care is required now to prevent new technology from ushering in an age of nuclear instability

EVOLUTION OF THE US SEA-BASED NUCLEAR MISSILE DETERRENT: WARFIGHTING CAPABILITIES GEORGE J. REFUTO,2011-08-12 This historical research study traces and analyzes the technological development and force deployment of US submarine launched strategic nuclear ballistic missiles and the evolution of their military missions during and after the Cold War from countervalue civilian political and economic targets strategic deterrence to the wider range of strategic and theater tactical nuclear conventional military force targeting characteristic of counterforce or warfighting capabilities Scope of this study also includes US nuclear ballistic missile submarine survivability against antisubmarine warfare operations and the role of the US fleet ballistic missile force in current 21st Century regional and global military threat scenarios and beyond

**Nuclear Modernization in the 21st Century** Aiden Warren,Philip M. Baxter,2020-02-17 This collection examines the extent to which nuclear weapons modernization has become a significant point of concern and consideration in international security Recent statements and substantial investments by nuclear weapon possessor states in the upkeep and modernization of their nuclear postures particularly the United States Russia and China illustrate a return of primacy and the salience of nuclear forces in international politics The upgrading of systems the introduction of new capabilities the intermingling of new technologies and the advancement of new strategic models are all indicative of their elevation in importance and reliance With contributions from leading thinkers in the nuclear weapons domain this book elucidates the global strategic and policy implications such modernization efforts by the above mentioned states will have on international security In unpacking and conceptualizing this developing source of potential in security and tension the collection not only provides a technical context but also frames the likely effects modernization could have on the relations between these nuclear weapon powers and the larger impact upon efforts to curb nuclear weapons both in terms of horizontal and vertical proliferation The chapters have been arranged so as to inform a variety of stakeholders from academics to policy makers by connecting analytical and normative insights and thereby advancing debates pertaining to where nuclear modernization sits as a point of global security consternation in the 21st century

**Putin's Russia: Economy, Defence And Foreign Policy** Steven Rosefielde,2020-08-27 This volume seeks to fill the vacuum created by the Joint Economic Committee of Congress s decision to cease publishing comprehensive assessments of Russia s performance and potential It provides readers with authoritative descriptions of Russia s economy military prowess and international ambitions The volume does not settle controversies but does provide readers with an objective basis for assessing Russia s prospects without the distortions caused by fake news and disinformation wars

US Military Strategy and the Cold War Endgame Stephen J. Cimbala,2014-01-14 At the end of the

Cold War security concerns are more about regional and civil conflicts than nuclear or Eurasian global wars Stephen Cimbala argues that deterrence characteristics of the pre Cold War period will in the 21st century again become normative **The Future of the U.S. Intercontinental Ballistic Missile Force** Lauren Caston,Robert S. Leonard,Christopher A. Mouton,Chad J. R. Ohlandt,S. Craig Moore,Raymond E. Conley,Glenn Buchan,2014-02-04 The authors assess alternatives for a next generation intercontinental ballistic missile ICBM across a broad set of potential characteristics and situations They use the current Minuteman III as a baseline to develop a framework to characterize alternative classes of ICBMs assess the survivability and effectiveness of possible alternatives and weigh those alternatives against their cost **Russia, the Asymmetric Threat to the United States** John Wood,2009-06-22 Exploring themes critical to understanding the current world order this book lays bare the reality of the new Russia that emerged under Vladimir Putin Russia holds the world s largest natural gas reserves the second largest coal and uranium reserves and the eighth largest oil reserves Europe is dependent on Russia for 25 percent of its oil and gas Russia is also positioning itself to play a similar role with respect to China The key to this strategy is a network of new oil and natural gas pipelines that Russia is in the process of constructing which will by pass the problematic Ukraine Georgia Poland and the Baltic States in the West and lock in the enormous potential of China in the East Further as the Western economies including the USA begin themselves to recover their growing energy dependence will come back into the forefront and therefore the need to ensure that Russia does not fail in its opening up of new energy resources in the Arctic and Eastern Siberia Russia is no longer a superpower in the Cold War sense of the word because its military is significantly weaker and as such is incapable of conducting a regional let alone global war against either the United States or NATO It is precisely because of its military weakness that Putin has been forced to adopt an asymmetric approach Thus the pipeline spigot and the proliferation of missiles and aircraft have become Russia s weapons of choice along with an ever growing reliance on its strategic nuclear forces to provide it with the necessary deterrent to foreign aggression In addition Putin and Medvedev have no interest in an arms race with the United States it is too costly and detracts from their priority which is economic reform From Putin s perspective America is in the process of imposing absolute security or as Joint Vision 2020 put it full spectrum dominance over the world As the sole remaining superpower the United States enjoys a massive strategic imbalance in its favor which it has used first to contain but now with the intent to control the world How NATO expansion lays the groundwork for a U S global missile defense system to contain perceived adversaries such as Russia which in turn secures the dominance of America through its Prompt Global Strike PGS capability the ability to strike anywhere on the planet with impunity within 90 minutes of the order being given by The President Thus PGS will be to the 21st Century what British Gun Boat Diplomacy was to the 19th Century In such a context Russia is forced to respond asymmetrically Multinational Military Intervention Stephen J. Cimbala,Peter K. Forster,2016-04-15 War as Clausewitz reminds is the most uncertain of human political and social activities It also imposes

burdens In an alliance among states for the promotion of collective defense or security such as the North Atlantic Treaty Organization NATO burdens have to be shared This study looks at the experience of the United States and other member states of NATO in four situations of multinational military intervention Lebanon the Persian Gulf the Balkans and South Asia and considers the implications of nuclear arms reductions and nonproliferation for the US and NATO Each case study represents an important period in the distribution of power interest and values amounting to more than a sequential consideration of incidents of military intervention and or conflict prevention These politico military challenges include a major coalition war a traditional peacekeeping operation an exercise in peace enforcement and a conflict that combines counter insurgency and counter terrorism with stability and security operations

**The Military History of the Soviet Union** F. Kagan, R. Higham, 2016-04-30 The Military History of the Soviet Union and The Military History of Tsarist Russia

treat Russian military history from the rise of the Muscovite state to the present even peeking briefly into the future The two volumes will cover Russia s land forces extensively but will also cover the development of the Russian Navy and the creation and development of the Russian Air Force parts of the Russian military machine which are frequently neglected in general writings The historical analysis will address the development and function of the Russian military whether in peace or in war as well as the impact of war and changes in the military upon Russian society and politics

**Airborne Maritime Surveillance in the North Atlantic** John O. Birkeland, 2025-07-17 This book offers a comprehensive examination of historical Norwegian and allied airborne maritime surveillance operations in the North Atlantic after World War II until the present Russia s resurgent naval and submarine activity in the High North needs to be closely observed Norway together with her closest allies have monitored such activity in the High North since the end of World War II One of the key instruments in that effort has been Maritime Patrol Aircraft MPA with their Anti Submarine Warfare ASW capabilities However after the Cold War in many nations an atrophy took place within the MPA communities of knowledge resources and experience with airborne ASW This occurred just as the concept of intelligence surveillance and reconnaissance ISR came to play an increasingly important role in modern warfare but without sufficient attention being paid to the specific challenges of maritime airborne surveillance and reconnaissance This book addresses that gap and examines the entwined evolution of airborne maritime surveillance by MPA and ASW in the High North both during and after the Cold War with the main focus being on Norway The discussion identifies the fundamental building blocks of these historical surveillance operations through a portrayal of the development of airborne surveillance and reconnaissance operations These building blocks are then applied to make recommendations for the future for maritime surveillance in the High North This book will be of much interest to students of naval history strategic studies intelligence studies Nordic studies and International Relations

**Nominations Before the Senate Armed Services Committee, First Session, 107th Congress** United States. Congress. Senate. Committee on

Armed Services, 1961 *The New START and the Implications for National Security* United States. Congress. Senate.

Committee on Armed Services, 2011      *SIPRI Yearbook 2005* Stockholm International Peace Research Institute, 2005 The 36th edition of the SIPRI Yearbook analyses developments in 2004 in Security and conflict, Military spending and armaments, Non proliferation arms control and disarmament. The SIPRI Yearbook contains extensive annexes on the implementation of arms control and disarmament agreements and a chronology of events during the year in the area of security and arms control. Studies in this volume: Euro Atlantic security, Major armed conflicts, Multilateral peace missions, Governing the use of force under international auspices, The greater Middle East, Latin America and the Caribbean, Environmental security, Financing security in a global context, Military expenditure, Arms production, International arms transfers, Arms control and the non proliferation process, Nuclear arms control and non proliferation, Chemical and biological weapon developments and arms control, Libya's renunciation of nuclear biological and chemical weapons and longer range missile programmes, Conventional arms control, International non proliferation and disarmament assistance, Multilateral export controls, The Proliferation Security Initiative. The annual accounts and analyses are extensively footnoted providing a comprehensive bibliography in each subject area.



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## **Table of Contents Russian Strategic Nuclear Forces**

1. Understanding the eBook Russian Strategic Nuclear Forces
  - The Rise of Digital Reading Russian Strategic Nuclear Forces
  - Advantages of eBooks Over Traditional Books
2. Identifying Russian Strategic Nuclear Forces
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Russian Strategic Nuclear Forces
  - User-Friendly Interface
4. Exploring eBook Recommendations from Russian Strategic Nuclear Forces
  - Personalized Recommendations
  - Russian Strategic Nuclear Forces User Reviews and Ratings
  - Russian Strategic Nuclear Forces and Bestseller Lists
5. Accessing Russian Strategic Nuclear Forces Free and Paid eBooks
  - Russian Strategic Nuclear Forces Public Domain eBooks
  - Russian Strategic Nuclear Forces eBook Subscription Services

- Russian Strategic Nuclear Forces Budget-Friendly Options
- 6. Navigating Russian Strategic Nuclear Forces eBook Formats
  - ePub, PDF, MOBI, and More
  - Russian Strategic Nuclear Forces Compatibility with Devices
  - Russian Strategic Nuclear Forces Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Russian Strategic Nuclear Forces
  - Highlighting and Note-Taking Russian Strategic Nuclear Forces
  - Interactive Elements Russian Strategic Nuclear Forces
- 8. Staying Engaged with Russian Strategic Nuclear Forces
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Russian Strategic Nuclear Forces
- 9. Balancing eBooks and Physical Books Russian Strategic Nuclear Forces
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Russian Strategic Nuclear Forces
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Russian Strategic Nuclear Forces
  - Setting Reading Goals Russian Strategic Nuclear Forces
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Russian Strategic Nuclear Forces
  - Fact-Checking eBook Content of Russian Strategic Nuclear Forces
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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the water table above the water table water is at a negative pressure in tension held by capillary forces the smaller the soil  
pore sizes the higher the water will rise above the water table usually a

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cm s d cm s<sup>2</sup> e none of these multiple choice question answer c

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web the coefficient of permeability of the soil is k ms and the porosity of the soil sample is 0 50 fans ans ans the total head  
elevation head and pressure head in metres of water at the point r shown in the figure are a 08 04 04 b 1 2 04 08 04 004 a 1 6  
04 12 hydraulic gradient i 1 elevation head at r 0 total head 1 2 0 8

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