MASON CLARK AND KAROLINA HIRD

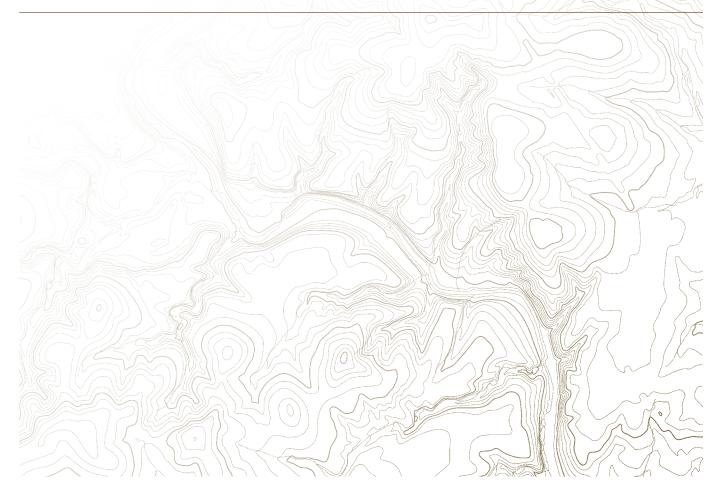
# RUSSIAN REGULAR GROUND FORCES ORDER OF BATTLE







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Russian T-80 tanks take part in the 'Vostok-2022' military exercises at the Uspenovskyi training ground (Sakhalin Island) outside the city of Yuzhno-Sakhalinsk on the Russian Far East on September 4, 2022. - The Vostok 2022 military exercises, involving several Kremlin-friendly countries including China, takes place from September I-7 across several training grounds in Russia's Far East and in the waters off it. Over 50,000 soldiers and more than 5,000 units of military equipment, including I40 aircraft and 60 ships, are involved in the drills. (Photo by Kirill KUDRYAVTSEV / AFP) (Photo by KIRILL KUDRYAVTSEV/AFP via Getty Images).

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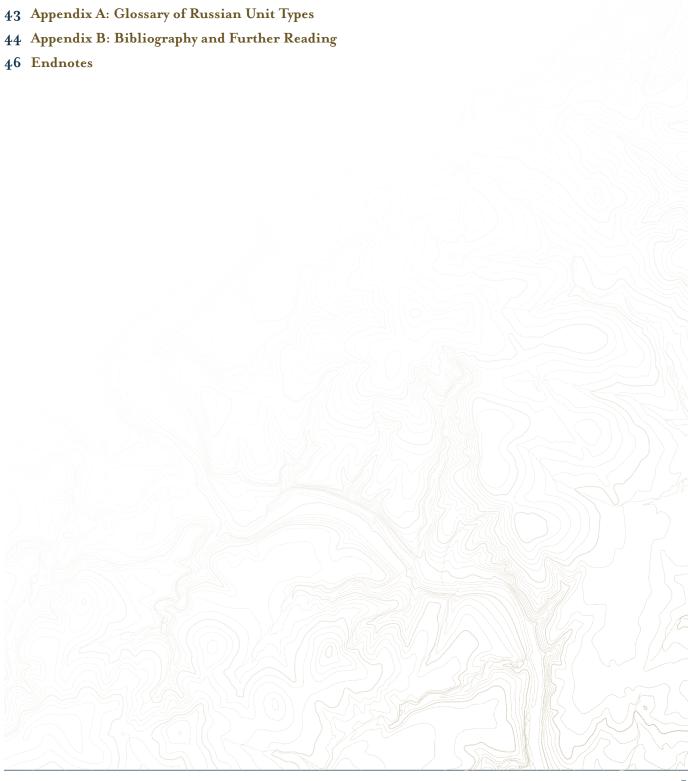
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# **Table of Contents**

- 8 Introduction to The Contents of This Report
- 10 Russian Military 101
- 15 Russia's Regular Ground Forces Order of Battle



#### RUSSIAN REGULAR GROUND FORCES ORDER OF BATTLE

# Introduction to The Contents of This Report

This report contains two sections: an introductory essay on the regular Russian ground forces; and a fully sourced order of battle (ORBAT) of Russia's regular ground forces down to the brigade and regiment echelon (with select independent battalions), including the army, ground forces controlled by the the navy, VDV (Airborne) units, and GRU Spetsnaz formations.<sup>I</sup>

The following essay is intended as an introduction to the regular Russian ground forces for security studies professionals, policymakers, and journalists who are not necessarily Russia specialists. This report covers the federal-level structure of Russia's armed services and General Staff; Russia's personnel system; general characteristics of Russian ground capabilities; Russian organizational structure from the Military District to the brigade/regiment level; and a brief discussion of the Battalion Tactical Group (BTG). This report draws on the sources in the accompanying annotated bibliography and the authors' study of the Russian armed forces, supplemented where necessary with footnotes exploring exceptions and adding further context.

This order of battle of the Russian regular ground forces is ISW's assessment of the on-paper structure of the regular Russian ground forces as of January 2023. It covers the Army, ground forces of the Navy, VDV, and GRU Spetsnaz down to the regiment and brigade level. It does not cover the Aerospace (VKS) forces (including air and air defense armies); Navy surface warfare and submarine assets; or the strategic rocket forces. We have excluded the 1st and 2nd Army Corps (the armed forces of the Donetsk People's Republic [DNR] and Luhansk People's Republic [LNR], informally run by the Southern Military District [SMD] since 2014 and formally acknowledged as such in December 2022) and the 3rd Army Corps (a new formation of volunteer units created under the Western Military District [WMD] in June 2022)

from this regular forces ORBAT. While these formations are part of the Russian Army on paper, we assess that they are closer in organization and purpose to irregular formations such as PMCs, Rosgvardia, BARS Combat Reserve units, and other forces. We will assess the structure and capabilities of these three Corps in our forthcoming irregular Russian ground forces ORBAT and the capstone forecasting report in this series.

This ORBAT is intended to provide an updated open source baseline of the Russian ground forces and is intentionally backdated to January 2023. Existing open source ORBATs of the Russian ground forces are missing several units, do not provide individual sourcing for each unit, and largely leverage the now defunct mikavkaz.com. This report does not address Defense Minister Sergei Shoigu's intended force changes announced in January 2023, including the reintroduction of the Leningrad and Moscow Military Districts and the intended formation of 12 new maneuver divisions. It also does not attempt to assess the actual strength of highly degraded Russian units. While the Russian military is in the process of establishing these new formations and in some cases already deploying them to Ukraine, we elected to provide a fully sourced baseline to support future ISW reports and as an open source baseline for practitioners other researchers.

All units are listed with their formal title, B/4 number ("voyskovaya chast" or "military unit," a

I Russia's Army – one of the three main services – is formally known as the Ground Forces of the Russian Federation. This report will refer to this service as the "Russian Army" for clarity. The lower-case term "ground forces" is used to refer to all of Russia's regular conventional ground units, including the Army, ground formations controlled by the Navy, and the Airborne Forces (VDV).

unique five-digit numerical code assigned to each administrative entity in the Russian armed forces), and permanent basing location, when confirmable. Units that we assess likely exist but whose existence we cannot confirm are listed in [brackets]. The authors developed this ORBAT by using strictly open sources to confirm the existence and permanent basing locations of Russian regular ground forces units. The authors focused on all maneuver and combat support units at the regiment and brigade level and above, with the exception of a few significant battalion-level units. The majority of units are multi-sourced with data identifying their name and basing location. The authors endeavored to include two reliable sources since 2021 per listed unit, but this standard was not tenable for many combat support elements and units from less

well-resourced military districts, in which case the sourcing standard was amended to allow for sourcing since 2013. Leveraged sources include news articles from both local and state outlets; government press releases; blogs and commentary pages run by military enthusiasts or veterans of given units; social media outlets (such as Odnoklassniki [OK] and VKontaktke [VK]); address registration pages; local government bulletins; and various message boards. A small number of units, primarily combat support elements, only include one source due to limited data meeting these standards confirming their basing. All sources used for each individual unit are available in the endnotes of the text ORBAT later in this report.

# Russian Military 101

# Structure of the Russian Armed Forces: Ministry of Defense, General Staff, and Services

The Russian Armed Forces are administratively controlled by the Russian Ministry of Defense (MoD), with longstanding Defense Minister Sergei Shoigu reporting to President Vladimir Putin and sitting on the Security Council, the Russian President's consultative body on national security. Shoigu runs the MoD through the Collegium, a standing body including several Deputy Defense Ministers, the heads of key MoD and General Staff Directorates, the commanders of Russia's armed services and branches, and the Military District commanders.

The Russian General Staff is the executive body of the MoD. The Russian General Staff is often misunderstood by Western observers and differs from the US Joint Staff in several key ways. If Often referred to as the "Arbat Military District" for the street in Moscow its headquarters is located on, the General Staff exerts a powerful influence on Russian military planning and was a major force behind resistance to previous Defense Minister Anatoly Serdyukov's "New Look" reforms.

The General Staff is responsible for strategic defense planning – forecasting the wars Russia will likely need to fight; assessing predominant means of warfare; and developing the Russian military necessary to meet these requirements, in addition to holding operational control over Russian forces in wartime. The Chief of the General Staff – currently Army General Valery Gerasimov, who has served in this role since 2012 – has command authority over the entire Russian Armed Forces. He is, in this respect, very different from the US Chairman of the Joint Chiefs of Staff, who is explicitly by law excluded from the operational chain of command. Gerasimov holds operational command through

the dual chain of the armed services (which retain administrative control) and the Military Districts, as well as direct control of strategic forces including the Strategic Rocket Forces, GRU Spetsnaz, and VDV (Airborne Forces). The structure of the General Staff itself, the changes in the Russian high command enacted during the war in Ukraine, and likely future developments will be addressed in ISW's forthcoming General Officers Guide.

Russia's armed services report to the General Staff. The Russian Armed Forces have three main services: the army, navy, and aerospace forces, which organize their forces under the Military District structure discussed below. Russia also possesses two "separate service branches" - the Airborne Forces, or VDV (for "Vozdushno-Desantnye Voiska" or "air landing troops"); and the Strategic Rocket forces, which control Russia's intercontinental ballistic missiles (ICBMs). Formations from these two services are not subordinate to Military Districts, but rather report through their respective commanders directly to the General Staff. Russia's Special Operations Forces and GRU Spetsnaz also report directly to the General Staff. Russia additionally has several security forces with combat capabilities often close to those of army motorized rifle units but with chains of command outside of the Ministry of Defense, such as Rosgvardia and the FSB Border Service, which are not covered in this report.

# Three services of the Russian Armed Forces field Russia's regular ground forces: the Army, VDV, and Navy.

The Russian Army is the indisputable heart of the Russian armed forces, and, naturally, of its ground forces. Army officers exert the greatest influence over the Russian armed forces and occupy most key positions on the General Staff and in Military District command positions. The Russian military

II For more information on the formal structure and likely influence of the Russian General Staff on Russian policymaking, see Alexis A. Blanc, Alyssa Demus, Sandra Kay Evans, Michelle Grisé, Mark Hvizda, Marta Kepe, Natasha Lander, and Krystyna Marcinek, "The Russian General Staff: Understanding the Military's Decisionmaking Role in a 'Besieged Fortress,'" RAND Corporation, May 15, 2023, https://www.rand.org/pubs/research\_reports/RRA1233-7.html.

is a joint force, but the army is at the top of a functional "hierarchy of jointness" and dominates military thinking, spending, and operations. III Army units are predominantly divided into tank (armored) and motorized rifle (mechanized infantry) units, with a few exceptions discussed in the unit glossary of this report.

The VDV (Russia's airborne forces) uniquely has the status of a service of the armed forces, rather than being a branch of the army as in the US and most other militaries. VDV units are generally the most professional, best trained, and best equipped units in the Russian military. The VDV is a strategic asset not tied to the geographical Military Districts and reports directly to the General Staff. VDV divisions and brigades are intended as a rapid reaction and expeditionary force in small wars, and a combination of strategic reserve and penetration force in large conventional wars. In practice, they have been pressed into service and employed as relatively light infantry throughout Russia's 21st century wars as the highest readiness and most effective infantry available, compared to the motorized rifle troops. VDV units are notably fully mechanized, and far "heavier" than the light infantry units that comprise Western airborne formations. VDV units operate expensive and specialized vehicles with near-equivalent firepower but far less armor than Army vehicles in order to retain nominal air mobility.

Russia's naval fleet headquarters report to the Military District structure and both operate their own naval infantry (marine) units as well as command ground forces through Army Corps headquarters subordinated to the fleets. The Naval Infantry are a relatively elite force with amphibious capabilities that have not yet been extensively demonstrated in combat. Like VDV and Army units, they are fully mechanized and in Ukraine have been leveraged as a primary infantry force over less-capable motorized rifle formations, similar to key VDV units. The

Black Sea, Baltic, Northern, and Pacific Fleets each additionally control a mix of regular motorized rifle and "coastal defense" units (the latter of which are trained and equipped as motorized rifle units) both directly through the fleet HQ's and "Army Corps" - formations roughly equivalent to small Combined Arms Armies.

# Staffing and General Characteristics of the Russian Ground Forces

The Russian military is staffed by a hybrid of long-service professionals referred to as "kontraktniki" ("contract servicemen") and a legacy Soviet-style cadre and reserve system of conscripts serving one-year terms on a semi-annual cycle. MoD decision making on staffing the Russian military in the 21st century has been dominated by two competing considerations: the goal of creating a smaller, flexible, and more technically advanced military of volunteer professionals (as epitomized by former Defense Minister Anatoly Serdyukov's 2008-2009 "New Look" reforms); and the desire to retain the Soviet capability of generating large conscript forces for large-scale conventional warfare with NATO.

All Russian units are comprised of a mix of contract servicemen and officer cadres intended to be filled out with conscripts in wartime. Some units (such as key VDV units like the 76th Airborne Division and Naval Infantry brigades) are more contractor-heavy than others, but no units at the brigade and regiment level and above are wholly comprised of contract personnel. Even elite VDV units contain conscripts, albeit the cream of the crop of each call-up. Contract servicemen fill specialist and "trigger puller" positions and typically remain in the same specialty for the duration of their careers. Conscripts fill out support and rifleman positions. In the event of large-scale war, the Russian military is theoretically supposed to fill out its units with

III Credit for the apt term "hierarchy of jointness" goes to Mykhaylo Zabrodskyi, Jack Watling, Oleksandr V. Danylyuk, and Nick Reynolds, "Preliminary Lessons in Conventional Warfighting from Russia's Invasion of Ukraine: February-July 2022," Royal United Services Institute, November 30, 2022, https://static.rusi.org/359-SR-Ukraine-Preliminary-Lessons-Feb-July-2022-web-final.pdf, pg 44-45.

IV For coverage of the Russian Armed Forces' mixed contractor and conscript system, see Mark Galeotti, Putin's Wars: From Chechnya to Ukraine (Oxford: Osprey, 2022), pg 107-111; Lester W. Grau and Charles K. Bartles, "The Russian Way of War: Force Structures, Tactics, and Modernization of the Russian Ground Forces," Foreign Military Studies Office, August 22, 2017, https://www.armyupress.army.mil/portals/7/hot%20spots/documents/russia/2017-07-the-russian-way-of-war-grau-bartles.pdf, pg. 3-9; Gil Barndollar, "The Best or Worst of Both Worlds?" Center for Strategic & International Studies, September 23, 2020, https://www.csis.org/blogs/post-soviet-post/best-or-worst-both-worlds.

a callup of reservists (those who previously served as conscripts), which Russia elected not to do fully prior to February 2022. The Kremlin's decision not to mobilize fully before the 2022 invasion of Ukraine and efforts to avoid a full mobilization has undermined the staffing of Russian units and led to a dearth of much-needed infantry.

The modern Russian ground forces retain strong elements of their Soviet legacy in terms of doctrine, equipment, and approach to combat operations. Very little can spark fiercer debate amongst observers of the Russian military than the degree of this Soviet influence, but many of the tactical and operational capabilities of the modern Russian military are continuations of the Soviet period, with mixed progress towards improved C2; a greater but still limited profusion of precision weaponry; and the development of the kontraktniki model.

Much of the doctrine and intended capabilities of the Russian ground forces flows from the Cold War-era mission of a rapid, mechanized drive across Western Europe. Mass and speed were paramount - fires would clear NATO positions and fully mechanized ground forces would remain mounted as much as possible. On the offense, Russian artillery and direct fires are intended to destroy opposing formations and enable rapid, mechanized maneuver into enemy rear areas. On the defense, Russian units are adept at digging in quickly and for protracted periods, as seen in Ukraine. Modernization of the ground forces in the last decade has been uneven due to budget and industrial constraints, with the majority of units operating upgraded Soviet kit. Most development has been centered on C2, EW, and long-range fires such as ballistic missile formations intended to provide some precision capabilities to destroy enemy C2 and key assets.VI

The Russian military has an outwardly formulaic and static approach to war that is intended to minimize the weaknesses of individual conscripts and leverage mass to enable operational flexibility.VII Russian officers are taught a mathematical approach to war, wherein the correct tactical drill and a mathematically precise amount of combat power can be applied to a combat situation to ensure success. Mathematical models abound in Russian military science, with every possible input theoretically accounted for. Russian personnel are taught a wide array of tactical drills they can execute mechanically, and officers learn a deep but static playbook of formulae to aid planning and execution. This tactical rigidity is intended to enable operational flexibility, as commanders can build basic but wellknown tactical drills into complex plans based on a mathematical evaluation of the enemy and likely outcomes. Working from a defined "menu" of tactical options means staff sizes and planning time requirements are much lower than in Western militaries. The Russian military's 21st-century efforts to develop "automated control systems" are intended to advance this line of thinking, leveraging computing power (and theoretically eventually AI) to increase the accuracy and speed through which commanders can select the "correct" option from a menu of drills. While the Russian military observed and discussed the need for flexibility and initiative in its operations in Syria, it has shown little intent to fully abandon this formulaic and mathematical approach to tactical decision making.

The old stereotype of the Soviet and Russian military being an artillery army with maneuver units attached remains largely true, and Russian units have far greater quantities of artillery than their NATO counterparts. The Russian military strongly believes in the ability of massed artillery fire to not simply disrupt but fully destroy targets through

V The Kremlin has instead elected to pursue an array of ad hoc and irregular force generation mechanisms. These include attempts to leverage the BARS (combat reserve) program; the formation of brand new "volunteer" units; reliance on the Wagner Group and increasingly other PMCs; leveraging and building out the forces of the DNR/LNR; using Rosgvardia and Spetsnaz units as line infantry; and blurring the lines between regular and irregular units. ISW will explore the implication of the Kremlin's decision to increasingly rely on irregular forces instead of leveraging its existing regular force generation structures in a forthcoming report.

VI The Russian Ministry of Defense often publishes percentages of the force as a whole and of specific units that are operating "modernized" equipment, an unclear adjective likely referring to equipment either newly-produced or upgraded to an undefined standard within roughly the past decade or so – such as the T-72B3 tank, a 2010 upgrade of the original model produced in the 1970s and the mainstay of Russian tank battalions.

VII This paragraph is written from an ideal Russian perspective, and should not be read as an evaluation of the practical effectiveness of this structure, which ISW will explore in future reports.

sheer weight of (predominantly area affect rather than precision) fires. Russian forces use artillery to accomplish many roles that NATO militaries would instead leverage air power for. The Russian ground forces are additionally on paper (and at the start of the 2022 invasion of Ukraine in practice) fully mechanized – including the VDV, Naval Infantry, and Spetsnaz. This focus on mounted operations has exposed gaps in Russian offensive capabilities in Ukraine. Most Russian infantry has been consistently reticent to dismount and clear Ukrainian positions if they cannot destroy defending Ukrainian units with fires, and Russian forces have struggled in situations requiring quality infantry, particularly in urban combat. VIII

# Structure of the Russian Ground Forces: Army to Battalion

Below the General Staff, the Russian military is organized into five Military Districts (as of the time of this publication, with the Western Military District due to be divided back into its pre-2010 structure of the Moscow and Leningrad Military Districts) which report to the General Staff and have operational control over their assigned forces in wartime. IX In peacetime, Military Districts are administrative divisions responsible for training and development which cover areas of Russia, not areas of the globe like US Combatant Commands. Military Districts are joint headquarters controlling the forces in their respective regions, except for several strategic assets (the VDV, Strategic Rocket Forces, and GRU Spetsnaz). Military Districts are intended to operationalize into Joint Strategic Commands during wartime and serve as flexible structures able to integrate and command varied units from other Military Districts, strategic assets, and military forces beyond the Ministry of Defense such as Rosgvardia units. Russia apparently operationalized all four main military districts in 2022 at once and assigned them areas of responsibility in

Ukraine and has retained this model as "groupings of forces" commanded by elements of each Military District HQ (with some modifications, including the creation of a "Dnepr" group of forces) as of September 2023.

The primary formations of the Russian ground forces are the 12 combined arms armies (one of which is designated the 1st Guards Tank Army but is not structurally different from the CAAs). Armies are not standardized, with smaller Central Military District (CMD) and Eastern Military District (EMD) armies comprised of a few brigades and the main formations of the WMD and SMD commanding multiple large divisions. Army headquarters are intended to be flexible HQs that can run varied operations and take in new assets from other formations - such as the SMD's 8th CAA command of Russian operations in the Donbas from 2014 to 2022, which included units from across Russia's military districts. Armies importantly directly control logistics, artillery, and air defense units which are detached to support the maneuver divisions and brigades in combat. Russian Army Corps are collocated with and subordinate to fleet HQs and serve the same function as Army HQs, with strengths comparable to the smaller CMD and EMD CAAs.

The Russian army almost entirely eliminated its divisions and regiments in 2008 and replaced them with brigades, based on the assessment that the only wars Russia would need to fight would be small-scale local wars and that Russia would therefore be better served by smaller, more flexible, and more professional brigades. The Russian military has steadily brought back divisions as the MoD observed the need for formations intended to fight large-scale conventional wars, rather than solely the brigades intended for local wars. Russia now operates a mix of divisions and brigades. Russian tank and motorized divisions vary greatly in size and capabilities (like their parent armies) but are

VIII For more on Russian infantry tactics in Ukraine in 2023, see Jack Watling and Nick Reynolds, "Meatgrinder: Russian Tactics in the Second Year of Its Invasion of Ukraine," Royal United Services Institute, May 19, 2023, https://static.rusi.org/403-SR-Russian-Tactics-web-final.pdf.

IX The current Military District structure – with Districts holding both administrative and operational control over their units – was created in 2010 with the consolidation of seven previous districts into the Western, Southern, Central, and Eastern Military Districts. The Northern Fleet Strategic Command was created in 2014 and promoted to a full Military District in January 2021, but remains last among equals with the four primary districts. Shoigu announced in January 2023 that the MoD will bring back the pre-2010 Leningrad and Moscow Military Districts by 2026, but we have observed no practical implementation of this initiative to date.

always comprised of subordinate regiments. Only the 150th Motorized Rifle (8th CAA) and 90th Guards Tank (41st CAA) Divisions contain the Soviet-era complement of four regiments, with the rest containing two to three regiments (and in some cases only one, for divisions still under formation) and necessary combat and noncombat support elements. VDV divisions are organized similarly, with two or three maneuver regiments in addition to support elements. Russian maneuver regiments are slightly smaller than brigades and are not designed to fight independently of their division HQ and support elements for protracted periods. Unlike in the US military, brigades are not part of divisions and instead report directly to Army HQs. Brigades are designed to be capable of independent action and contain their own support elements, unlike regiments.

The Russian military in practice deployed Battalion Tactical Groups (BTGs) from parent brigades and regiments as the primary maneuver element for much of the initial period of the 2022 invasion of Ukraine, though the explicit use of BTGs has diminished throughout the war. A brief introduction to the BTG follows, with further recommended readings included in the bibliography. BTGs have

existed in various forms since the Soviet era, were developed further in the early 21st century, and formed the primary Russian unit in the Donbas 2014-2016. Each brigade and regiment has the capability to "generate" one or two BTGs from its nominal four component battalions by assembling the contract personnel and most qualified officers of the parent units into reinforced battalions with attached artillery and support elements, intended to be capable of limited action independent from their parent unit. BTGs are theoretically task-organized and can vary widely in capabilities. BTGs enable peacetime brigades and regiments to generate deployable forces, at the cost of cannibalizing the rest of the parent units and imposing interoperability challenges between personnel assembled from varied peacetime battalions on often short notice. BTGs additionally notably expose Russian brigades and regiments to being rendered combat ineffective by the loss of key assets early - both key supporting elements as well as losses among the most experienced troops and commanders, who are assigned to the generated BTGs first and leave an ineffective shell behind when lost.

# Russia's Regular Ground Forces Order of Battle

# Western Military District

I<sup>st</sup> Guards Tank Army, B/Y 73621 — Bakovka, Moscow Oblast<sup>1</sup>

 $2^{nd}$  Guards Motorized Rifle Division, в/ч 23626 — Kalininets, Moscow Oblast $^2$ 

- I<sup>st</sup> Guards Motorized Rifle Regiment, в/Ч 31135 — Kalininets, Moscow Oblast<sup>3</sup>
- 15<sup>th</sup> Guards Motorized Rifle Regiment, в/ч 31134 — Kalininets, Moscow Oblast<sup>4</sup>
- I<sup>st</sup> Tank Regiment, B/4 58198 Kalininets, Moscow Oblast<sup>5</sup>
- 136<sup>th</sup> Reconnaissance Battalion, B/4 51387 — Kalininets, Moscow Oblast<sup>6</sup>
- 147<sup>th</sup> Self-Propelled Artillery Regiment, в/ч 73966 — Kalininets, Moscow Oblast<sup>7</sup>
- 1174<sup>th</sup> Anti-Tank Battalion, в/ч 51381 Kalininets, Moscow Oblast<sup>8</sup>
- III7<sup>th</sup> Anti-Aircraft Missile Regiment, в/ч 51382 — Golitsyno, Moscow Oblast<sup>9</sup>

4<sup>th</sup> Guards Tank Division, B/4 19612 — Naro-Fominsk, Moscow Oblast<sup>10</sup>

- 12<sup>th</sup> Guards Tank Regiment, B/4 31985 Naro-Fominsk, Moscow Oblast<sup>11</sup>
- 13<sup>th</sup> Guards Tank Regiment, B/4 32010 Naro-Fominsk, Moscow Oblast<sup>12</sup>
- 423<sup>rd</sup> Motorized Rifle Regiment, в/ч 91701 — Naro-Fominsk, Moscow Oblast<sup>13</sup>
- 137<sup>th</sup> Reconnaissance Battalion, в/ч 54919 — Naro-Fominsk, Moscow Oblast<sup>14</sup>
- 275<sup>th</sup> Self-Propelled Artillery Regiment, в/ч 73941 — Naro-Fominsk, Moscow Oblast<sup>15</sup>
- 49<sup>th</sup> Anti-Aircraft Missile Brigade, B/Y
   21555 Smolensk, Smolensk Oblast<sup>16</sup>
- 538<sup>th</sup> Guards Anti-Aircraft Missile Regiment, в/ч 51383 — Naro-Fominsk, Moscow Oblast<sup>17</sup>

47<sup>th</sup> Tank Division (Established on the basis of the 6<sup>th</sup> Tank Brigade in December 2021), B/4 64238 — Mulino, Nizhny Novgorod Oblast<sup>18</sup>

• 26<sup>th</sup> Tank Regiment, В/Ч UNK — Mulino, Nizhny Novgorod<sup>19</sup>

- 7<sup>th</sup> Reconnaissance Battalion, в/ч UNK UNK basing<sup>20</sup>
- [Likely Unidentified Artillery Regiment]
- [Likely Unidentified Anti-Aircraft Missile Brigade]

#### Subordinate to Army HQ

- 27<sup>th</sup> Motorized Rifle Brigade, B/Y 61899
   Mosrentgen, Moscow City<sup>21</sup>
- 96<sup>th</sup> Reconnaissance Brigade, в/ч 52634
   Nizhny Novgorod, Nizhny Novgorod Oblast <sup>22</sup>
- 288<sup>th</sup> Artillery Brigade, в/ч 30683 Mulino, Nizhny Novgorod Oblast<sup>23</sup>
- 112<sup>th</sup> Missile Brigade, в/ч 03333 Shuya, Ivanovo Oblast<sup>24</sup>

6<sup>th</sup> Combined Arms Army, B/4 31807 — Agalatovo, Leningrad Oblast<sup>25</sup>

#### Subordinate to Army HQ

- 138<sup>th</sup> Motorized Rifle Brigade, B/Y 02511 — Kamenka, Leningrad Oblast<sup>26</sup>
- 25<sup>th</sup> Motorized Rifle Brigade, в/ч 29760
   Luga, Leningrad Oblast<sup>27</sup>
- 9<sup>th</sup> Artillery Brigade, в/ч 02561 Luga, Leningrad Oblast<sup>28</sup>
- 26<sup>th</sup> Missile Brigade, B/Ч 54006 Luga, Leningrad Oblast<sup>29</sup>
- 5<sup>th</sup> Anti-Aircraft Missile Brigade, B/Y 74429 — Gorlovo, St. Petersburg City<sup>30</sup>

20<sup>th</sup> Guards Combined Arms Army, B/4 89425 — Voronezh, Voronezh Oblast<sup>31</sup>

3<sup>rd</sup> Motorized Rifle Division, B/4 54046 — Boguchar, Voronezh Oblast<sup>32</sup>

- 752<sup>nd</sup> Motorized Rifle Regiment, B/4 34670 — Valuyki, Belgorod Oblast<sup>33</sup>
- 252<sup>nd</sup> Motorized Rifle Regiment, в/ч 91711 — Boguchar, Voronezh Oblast<sup>34</sup>
- 237<sup>th</sup> Guards Tank Regiment, В/Ч 91726
   Valuyki and Soloti, Belgorod Oblast<sup>35</sup>
- 84<sup>th</sup> Reconnaissance Battalion, в/ч 22263 — Valuyki, Belgorod Oblast<sup>36</sup>
- 99<sup>th</sup> Self-Propelled Artillery Regiment, В/Ч 91727 — Boguchar, Voronezh Oblast<sup>37</sup>

- 159<sup>th</sup> Separate Anti-Tank Battalion, B/4 81989 — Boguchar, Voronezh Oblast<sup>38</sup>
- 1143<sup>rd</sup> Separate Anti-Aircraft Missile Battalion, B/4 48422 — Nizhny Novgorod, Nizhny Novgorod Oblast<sup>39</sup>

144<sup>th</sup> Motorized Rifle Division, в/ч 23060—Yelnya, Smolensk Oblast<sup>40</sup>

- 254<sup>th</sup> Guards Motorized Rifle Regiment, B/4 91704 — Zaimishche village, Klintsy, Bryansk Oblast<sup>41</sup>
- 488<sup>th</sup> Guards Motorized Rifle Regiment, в/ч 12721 — Klintsy, Bryansk Oblast<sup>42</sup>
- 59<sup>th</sup> Guards Tank Regiment, в/ч 94018 Yelnya, Smolensk Oblast<sup>43</sup>
- 148<sup>th</sup> Reconnaissance Battalion, B/Y 23872 — Smolensk, Smolensk Oblast<sup>44</sup>
- 856<sup>th</sup> Guards Self-Propelled Artillery Regiment, В/Ч 23857 — Pochep, Bryansk Oblast<sup>45</sup>
- 1259<sup>th</sup> Separate Anti-Tank Artillery Battalion, в/ч UNK — Yelnya, Smolensk Oblast<sup>46</sup>
- 673<sup>rd</sup> Separate Anti-Aircraft Missile Battalion, B/4 53821 Smolensk, Smolensk Oblast<sup>47</sup>

#### Subordinate to Army HQ

- 236<sup>th</sup> Guards Artillery Brigade, в/ч 53195 — Kolomna, Moscow Oblast<sup>48</sup>
- 448<sup>th</sup> Missile Brigade, в/ч 35535 Kursk, Kursk Oblast<sup>49</sup>
- 53<sup>rd</sup> Guards Anti-Aircraft Missile Brigade, B/4 32406 Marshal Zhukov village, Kursk Oblast<sup>50</sup>

**Baltic Sea Fleet,** B/4 51280 — Kaliningrad and Gusev, Kaliningrad Oblast<sup>51</sup>

 ${
m II}^{
m th}$  Army Corps (Established in 2016), B/4 54259 — Gusev, Kaliningrad Oblast  $^{52}$ 

18<sup>th</sup> Guards Motorized Rifle Division (Established December 2020 on the basis of the 79<sup>th</sup> Separate Guards Motorized Rifle Brigade), в/ч UNK — Gusev, Kaliningrad Oblast<sup>53</sup>

- 275<sup>th</sup> Motorized Rifle Regiment (Newly established, presented with formal banners in April 2021), B/4 UNK—Gusev, Kaliningrad Oblast<sup>54</sup>
- 280<sup>th</sup> Motorized Rifle Regiment (Newly established, presented with formal ban-

- ners in April 2021), B/4 UNK Gusev, Kaliningrad Oblast<sup>55</sup>
- 79<sup>th</sup> Guards Motorized Rifle Regiment, в/ч 90151 — Gusev, Kaliningrad Oblast<sup>56</sup>
- II<sup>th</sup> Tank Regiment (Established late 2018 on the basis of the II<sup>th</sup> Separate Tank Battalion), B/4 416II Gusev, Kaliningrad Oblast<sup>57</sup>
- 20<sup>th</sup> Separate Reconnaissance Battalion, B/4 12563 Sovetsk, Kaliningrad Oblast<sup>58</sup>
- 22<sup>nd</sup> Guards Anti-Aircraft Missile Regiment, в/ч UNK Kaliningrad, Kaliningrad Oblast<sup>59</sup>

#### Subordinate to Corps HQ

- 7<sup>th</sup> Guards Motorized Rifle Regiment (a Russian media outlet reported in 2016 that the 7<sup>th</sup> Regiment would be reorganized into a brigade, but ISW has not observed further confirmation of this change), B/4 06414 — Kaliningrad, Kaliningrad Oblast<sup>60</sup>
- 336<sup>th</sup> Naval Infantry Brigade, В/Ч 06017 — Baltiysk, Kaliningrad Oblast<sup>61</sup>
- 561<sup>st</sup> Maritime Reconnaissance Point (essentially a naval spetsnaz battalion), B/Y
  10617 Parusnoye, Kaliningrad Oblast<sup>62</sup>
- 244<sup>th</sup> Artillery Brigade, в/ч 41603 Kaliningrad, Kaliningrad Oblast<sup>63</sup>
- 152<sup>nd</sup> Missile Brigade, B/4 54229 Chernyakhovsk, Kaliningrad Oblast<sup>64</sup>
- 27<sup>th</sup> Coastal Missile Brigade, в/ч 39108 Donskoye, Kaliningrad Oblast<sup>65</sup>

#### District-level units

Operative Group of the Russian Armed Forces in Transnistria, Moldova, в/ч 13962 — Tiraspol, Moldova<sup>66</sup>

- 82<sup>nd</sup> Motorized Rifle Battalion, в/ч 74273 — Bender and Tiraspol, Moldova<sup>67</sup>
- 113<sup>th</sup> Motorized Rifle Battalion, в/ч 22137
   Tiraspol, Moldova<sup>68</sup>
- 540<sup>th</sup> Command Battalion, B/4 09353 Tiraspol, Moldova<sup>69</sup>

45<sup>th</sup> Heavy Artillery Brigade, в/ч 31969 — Tambov, Tambov Oblast<sup>70</sup>

79<sup>th</sup> Guards Rocket Artillery Brigade, в/ч 53959 — Tver, Tver Oblast<sup>71</sup>

202<sup>nd</sup> Anti-Aircraft Missile Brigade, В/Ч 43034 — Naro-Fominsk, Moscow Oblast<sup>72</sup>

27<sup>th</sup> Separate Guards Radiation, Chemical, and Biological Protection Brigade, B/4 11262 — Kursk, Kursk Oblast<sup>73</sup>

I<sup>st</sup> Guards Engineer-Sapper Brigade, в/ч 11105 — Murom, Vladimir Oblast<sup>74</sup>

45<sup>th</sup> Separate Guards Engineering Brigade, в/ч 11361 — Nakhabino, Moscow Oblast<sup>75</sup>

# Southern Military District

8<sup>th</sup> Guards Combined Arms Army, в/ч 61877 — Novocherkassk, Rostov Oblast<sup>76</sup>

150<sup>th</sup> Motorized Rifle Division, в/ч 22179 — Novocherkassk, Rostov Oblast<sup>77</sup>

- 102<sup>nd</sup> Motorized Rifle Regiment, в/ч 91706 — Persianovskyi, Rostov Oblast<sup>78</sup>
- 103<sup>rd</sup> Motorized Rifle Regiment, B/4 91708 — Rostov-on-Don, Rostov Oblast<sup>79</sup>
- 68<sup>th</sup> Tank Regiment, в/ч 91714 Persianovskyi, Rostov Oblast<sup>80</sup>
- 163<sup>rd</sup> Tank Regiment, в/ч 84839 Persianovskyi, Rostov Oblast<sup>81</sup>
- 174<sup>th</sup> Reconnaissance Battalion, в/ч 22265 — Persianovskyi, Rostov Oblast<sup>82</sup>
- 381<sup>st</sup> Self-Propelled Artillery Regiment, в/ч 24390 — Kuzminka, Rostov Oblast<sup>83</sup>
- 224<sup>th</sup> Separate Anti-Tank Artillery Battalion, в/ч UNK — Kuzminka, Rostov Oblast<sup>84</sup>
- 933<sup>rd</sup> Anti-Aircraft Missile Regiment, в/ч 15269 — Millerovo, Rostov Oblast<sup>85</sup>

20<sup>th</sup> Guards Motorized Rifle Division (Established on the basis of the 20<sup>th</sup> Guards Motorized Rifle Brigade in December 2021), B/4 58550—Volgograd, Volgograd Oblast<sup>86</sup>

- 255<sup>th</sup> Motorized Rifle Regiment, в/ч 34605 — Volgograd, Volgograd Oblast<sup>87</sup>
- 33<sup>rd</sup> Motorized Rifle Regiment, в/ч UNK — Kamyshin, Volgograd Oblast<sup>88</sup>
- 944<sup>th</sup> Guards Self-Propelled Artillery Regiment, В/Ч 21511 — Latoshinka, Volgograd Oblast<sup>89</sup>

- 487<sup>th</sup> Separate Anti-Tank Battalion, B/4 UNK — Volgograd, Volgograd Oblast<sup>90</sup>
- 358<sup>th</sup> Guards Anti-Aircraft Missile Regiment, в/ч 26006 Kamyshin, Volgograd Oblast<sup>91</sup>

#### Subordinate to Army HQ

- 238<sup>th</sup> Artillery Brigade, B/4 UNK Korenovsk, Krasnodar Krai<sup>92</sup>
- 47<sup>th</sup> Missile Brigade, в/ч 33166 Dyadkovskaya village, Krasnodar Krai<sup>93</sup>
- 78<sup>th</sup> Anti-Aircraft Missile Brigade, B/4 UNK — UNK town, Rostov Oblast<sup>94</sup>

49<sup>th</sup> Combined Arms Army, B/4 35181 — Stavropol, Stavropol Krai<sup>95</sup>

#### Subordinate to Army HQ

- 205<sup>th</sup> Motorized Rifle Brigade, B/4 74814 — Budyonnovsk, Stavropol Krai<sup>96</sup>
- 34<sup>th</sup> Motorized Rifle Brigade (Mountain), B/4 01485 Storozhevaya, Karachay-Cherkessia<sup>97</sup>
- 7<sup>th</sup> Military Base (Brigade strength), в/ч, 09332 — Gudauta, Abkhazia<sup>98</sup>
- 19<sup>th</sup> Separate Special Forces Company, в/ч 82760 — Stavropol, Stavropol Krai<sup>99</sup>
- 227<sup>th</sup> Artillery Brigade, B/4 13714 Maykop, Adgyea Republic<sup>100</sup>
- I<sup>st</sup> Missile Brigade, В/Ч 31853 Molkino, Krasnodar Krai<sup>тот</sup>
- 90<sup>th</sup> Anti-Aircraft Missile Brigade, В/Ч 54821 — Afipsky, Krasnodar Krai<sup>102</sup>

**58**<sup>th</sup> Combined Arms Army, B/4 47084 — Vladikavkaz, North Ossetia-Alania Republic<sup>103</sup>

42<sup>nd</sup> Motorized Rifle Division, в/ч 27777 — Grozny, Chechnya<sup>104</sup>

- 70<sup>th</sup> Guards Motorized Rifle Regiment, B/4 71718 — Shali, Chechnya<sup>105</sup>
- 71st Guards Motorized Rifle Regiment, В/Ч 16544 — Kalinovskaya, Chechnya<sup>106</sup>
- 291st Guards Motorized Rifle Regiment, B/4 65384 — Borzoy, Chechnya<sup>107</sup>
- 78th Special Purpose Motorized Regiment "Sever-Akhmat" (Newly formed in September 2022 by Chechen Republic Head Ramzan Kadyrov and reportedly subordinated to the 42nd Motorized Rifle

Division), B/4 77192 — Sernovodskoye, Chechnya<sup>108</sup>

- 417<sup>th</sup> Separate Reconnaissance Battalion, в/ч 13242 — Khankala, Chechnya<sup>109</sup>
- 50<sup>th</sup> Self-Propelled Artillery Regiment, B/4 53185 — Shali, Chechnya<sup>110</sup>
- 150th Separate Anti-Tank Artillery Battalion, B/4 24566 Grozny, Chechnya<sup>III</sup>
- 245<sup>th</sup> Separate Anti-Aircraft Missile Battalion, B/4 81510 Grozny, Chechnya<sup>112</sup>

19<sup>th</sup> Motorized Rifle Division, B/4 20634 — Vladikavkaz, Republic of North Ossetia-Alania<sup>113</sup>

- 429<sup>th</sup> Motorized Rifle Regiment, В/Ч 01860 — Sputnik, Vladikavkaz, Republic of North Ossetia-Alania<sup>114</sup>
- 503<sup>rd</sup> Motorized Rifle Regiment, B/4 75394 — Vladikavkaz, Republic of North Ossetia-Alania<sup>115</sup>
- [Likely Unidentified Artillery Regiment]
- [Likely Unidentified Anti-Aircraft Missile Regiment]

Subordinate to Army HQ

- 136<sup>th</sup> Guards Motorized Rifle Brigade, B/4 63354 — Buynaksk, Dagestan<sup>116</sup>
- 4<sup>th</sup> Guards Base, B/4 66431 Tskhinvali, South Ossetia<sup>117</sup>
- 100th Reconnaissance Brigade, B/Y 23511 — Mozdok, Republic of North Ossetia-Alania<sup>118</sup>
- 291st Artillery Brigade, B/4 64670 Troitskaya, Republic of Ingushetia<sup>119</sup>
- 12<sup>th</sup> Missile Brigade, в/ч 25788 Mozdok, Republic of North Ossetia-Alania<sup>120</sup>

Black Sea Fleet, В/ч UNK — Sevastopol, occupied Crimea<sup>121</sup>

 $22^{nd}$  Army Corps, в/ч 73954 — Simferopol, occupied Crimea<sup>122</sup>

- 126<sup>th</sup> Coastal Defense Brigade, B/Y 12676 — Perevalne, occupied Crimea<sup>123</sup>
- 127<sup>th</sup> Reconnaissance Brigade, в/ч 67606
   Sevastopol, occupied Crimea<sup>124</sup>
- 8<sup>th</sup> Artillery Regiment, в/ч 87714 Perevalne, occupied Crimea<sup>125</sup>
- 15<sup>th</sup> Coastal Missile Brigade, B/4 UNK Sevastopol, occupied Crimea<sup>126</sup>

#### Subordinate to Fleet HQ

- 810<sup>th</sup> Naval Infantry Brigade, B/4 13140 Sevastopol, occupied Crimea<sup>127</sup>
- 388th Maritime Recon Point (essentially a naval spetsnaz battalion), B/4 43071 Sevastopol, occupied Crimea<sup>128</sup>
- 854<sup>th</sup> Separate Coastal Missile Regiment, B/ч UNK Sevastopol, occupied Crimea<sup>129</sup>
- II<sup>th</sup> Coastal Missile Brigade, в/ч 00916 Utash and Anapa, Krasnodar Krai<sup>130</sup>

#### District-level units

Caspian Flotilla, B/4 62780 — Kaspiysk, Dagestan<sup>131</sup>

- 177<sup>th</sup> Naval Infantry Regiment, в/ч UNK — Kaspiysk, Dagestan<sup>132</sup>
- 51<sup>st</sup> Separate Coastal Missile Battalion, в/ч UNK — Kaspiysk, Dagestan<sup>133</sup>

102<sup>nd</sup> Military Base (Exact composition unknown but presumed), B/4 04436 — Gyumri, Armenia<sup>134</sup>

- [3 Unidentified motorized rifle battalions]
- [I Unidentified tank battalion]
- [2 Unidentified self-propelled artillery battalions]
- [I Unidentified rocket artillery battalion]
- [I Unidentified anti-tank artillery battalion]
- [I Unidentified anti-aircraft missile battalion]
- [I Unidentified anti-aircraft missile and artillery battalion]
- 988<sup>th</sup> Anti-aircraft Missile Regiment, в/ч 81594 — Gyumri, Armenia<sup>135</sup>

439<sup>th</sup> Guards Rocket Artillery Brigade, в/ч 48315 — Znamensk, Astrakhan Oblast<sup>136</sup>

77<sup>th</sup> Anti-Aircraft Missile Brigade, B/Y 33742 — Korenovsk, Krasnodar Krai<sup>137</sup>

II<sup>th</sup> Separate Guards Engineering Brigade, B/4 45767 — Kamensk-Shakhtinsky, Rostov Oblast<sup>138</sup>

28<sup>th</sup> Separate Radiation, Chemical, and Biological Protection Brigade, в/ч 65363 — Kamyshin, Volgograd Oblast<sup>139</sup>

# **Central Military District**

41<sup>st</sup> Combined Arms Army, B/4 64128 — Novosibirsk, Novosibirsk Oblast<sup>140</sup>

90<sup>th</sup> Guards Tank Division, B/4 86274 — Chebarkul, Chelyabinsk Oblast<sup>141</sup>

- 239<sup>th</sup> Tank Regiment, В/Ч 89547 Chebarkul, Chelyabinsk Oblast<sup>142</sup>
- 6<sup>th</sup> Guards Tank Regiment, в/ч 93992 Chebarkul, Chelyabinsk Oblast<sup>143</sup>
- 80<sup>th</sup> Tank Regiment, в/ч 87441 Chebarkul, Chelyabinsk Oblast<sup>144</sup>
- 228<sup>th</sup> Motorized Rifle Regiment, B/Y
   22316 Yekaterinburg, Sverdlovsk
   Oblast<sup>145</sup>
- 30<sup>th</sup> Reconnaissance Battalion, в/ч 17654 — Chebarkul, Chelyabinsk Oblast<sup>146</sup>
- 400<sup>th</sup> Self-Propelled Artillery Regiment, B/4 15871 — Chebarkul, Chelyabinsk Oblast<sup>147</sup>

#### Subordinate to Army HQ

- 35<sup>th</sup> Guards Motorized Rifle Brigade, в/Ч 41659 — Aleysk, Altai Krai<sup>148</sup>
- 74<sup>th</sup> Guards Motorized Rifle Brigade, B/4 21005 — Yurga, Kemerovo Oblast<sup>149</sup>
- 55<sup>th</sup> Motorized Rifle Brigade (Mountain), B/4 55115 — Kyzyl, Tuva Republic<sup>150</sup>
- 120<sup>th</sup> Artillery Brigade, B/4 59361 Yurga, Kemerovo Oblast<sup>151</sup>
- 199<sup>th</sup> Missile Brigade, B/H 49547 Yelanskiy, Sverdlovsk Oblast<sup>152</sup>

**2<sup>nd</sup> Guards Combined Arms Army,** В/Ч 22223 — Samara, Samara Oblast<sup>153</sup>

#### Subordinate to Army HQ

- 30<sup>th</sup> Motorized Rifle Brigade, B/4 45863 Roshchinsky, Samara Oblast<sup>154</sup>
- 15<sup>th</sup> Motorized Rifle Brigade, B/4 90600 Roshchinsky, Samara Oblast<sup>155</sup>
- 21<sup>st</sup> Guards Motorized Rifle Brigade, B/4 12128 — Totskoye, Orenburg Oblast<sup>156</sup>
- 385<sup>th</sup> Artillery Brigade, в/ч 32755 Totskoye, Orenburg Oblast<sup>157</sup>
- 950<sup>th</sup> Rocket Artillery Regiment, B/Y
   92190 Totskoye, Orenburg Oblast<sup>158</sup>
- 92<sup>nd</sup> Missile Brigade, В/Ч 30785 Totskoye, Orenburg Oblast<sup>159</sup>

297<sup>th</sup> Anti-Aircraft Missile Brigade, B/4
 02030 — Leonidovka, Penza Oblast<sup>160</sup>

#### District-level units

201<sup>st</sup> Military Base, в/ч 01162 — Dushanbe, Tajikistan<sup>161</sup>

- 92<sup>nd</sup> Motorized Rifle Regiment, В/Ч 31691 — Dushanbe, Tajikistan<sup>162</sup>
- [Unidentified Separate Tank Battalion] Dushanbe, Tajikistan
- [Unidentified Reconnaissance Battalion]
   –Dushanbe, Tajikistan
- [Unidentified Rocket Artillery Battalion] —Dushanbe, Tajikistan
- 232<sup>nd</sup> Guards Rocket Artillery Brigade, B/Y
   31643 Cherbakul, Chelyabinsk Oblast<sup>163</sup>
- 28<sup>th</sup> Anti-Aircraft Missile Brigade, в/Ч 71316 — Mirny, Kirov Oblast<sup>16</sup>4
- I<sup>st</sup> Mobile Radiation, Chemical, and Biological Protection Brigade, в/Ч 71432 — Shikhany, Saratov Oblast<sup>165</sup>
- 29<sup>th</sup> Separate Radiation, Chemical, and Biological Protection Brigade, в/ч 34081
   Yekaterinburg, Sverdlovsk Oblast<sup>166</sup>
- 12<sup>th</sup> Separate Guards Engineering Brigade, B/4 63494 — Alkino-2, Bashkortostan<sup>167</sup>

## **Eastern Military District**

5<sup>th</sup> Combined Arms Army, B/4 06426 — Ussuriysk, Primorsky Krai<sup>168</sup>

 $127^{th}$  Motorized Rifle Division (Established in December 2018 on the basis of the  $59^{th}$  Motorized Rifle Brigade), B/4 44980 — Sergeyevka, Primorsky Krai<sup>169</sup>

- 394<sup>th</sup> Motorized Rifle Regiment, в/ч 25573 — Sergeyevka, Primorsky Krai<sup>170</sup>
- 143<sup>rd</sup> Motorized Rifle Regiment, B/Y 21634 — Sergeyevka, Primorsky Krai<sup>171</sup>
- II4<sup>th</sup> Motorized Rifle Regiment, B/4 24776 — Ussuriysk, Primorsky Krai<sup>172</sup>
- 218<sup>th</sup> Tank Regiment, B/4 82588 Sergeyevka, Primorsky Krai<sup>173</sup>
- 872<sup>nd</sup> Self-Propelled Artillery Regiment, B/4 75234 — Sergeyevka, Primorsky Krai<sup>174</sup>
- 1171<sup>st</sup> Anti-Aircraft Missile Regiment, В/Ч 65484 — Ussuriysk, Primorsky Krai<sup>175</sup>

#### Subordinate to Army HQ

- 57<sup>th</sup> Guards Motorized Rifle Brigade, в/ч 46102 — Bikin, Khabarovsk Krai<sup>176</sup>
- 305<sup>th</sup> Artillery Brigade, в/ч 39255 Ussuriysk, Primorsky Krai<sup>177</sup>
- 20<sup>th</sup> Missile Brigade, в/ч 92088 Spassk-Dalny, Primorsky Krai<sup>178</sup>

35<sup>th</sup> Combined Arms Army, B/4 02492 — Belogorsk, Amur Oblast<sup>179</sup>

#### Subordinate to Army HQ

- 64<sup>th</sup> Motorized Rifle Brigade, в/ч 51460
   Knyaze-Volkonskoye, Khabarovsk Krai<sup>180</sup>
- 38<sup>th</sup> Guards Motorized Rifle Brigade, B/4 21720 — Ekaterinoslavka, Amur Oblast<sup>181</sup>
- 69<sup>th</sup> Covering Brigade (a strictly defensive brigade on the Chinese border), B/4
   61424 —Babstovo, Jewish Autonomous Oblast<sup>182</sup>
- 165<sup>th</sup> Artillery Brigade, B/4 02901 Belogorsk, Amur Oblast<sup>183</sup>
- 107<sup>th</sup> Missile Brigade, В/Ч 47062 Birobidzhan, Jewish Autonomous Oblast<sup>184</sup>
- 71<sup>st</sup> Anti-Aircraft Missile Brigade, В/Ч 01879 — Belogorsk, Amur Oblast<sup>185</sup>

**36**<sup>th</sup> Combined Arms Army, в/ч 05776 — Ulan-Ude, Republic of Buryatia<sup>186</sup>

#### Subordinate to Army HQ

- 37<sup>th</sup> Guards Motorized Rifle Brigade, B/Y 69647 — Kyakhta, Republic of Buryatia<sup>187</sup>
- 5<sup>th</sup> Guards Tank Brigade, В/Ч 46108 Divizionnaya station, Republic of Buryatia<sup>188</sup>
- 30<sup>th</sup> Artillery Brigade, B/4 62048 Divizionnaya and Taltsy stations, Republic of Buryatia<sup>189</sup>
- 103<sup>rd</sup> Missile Brigade, в/ч 47130 Divisionnaya station, Republic of Buryatia<sup>190</sup>
- 35<sup>th</sup> Guards Anti-Aircraft Missile Brigade, B/4 34696 Ulan-Ude, Republic of Buryatia<sup>191</sup>

**29<sup>th</sup> Combined Arms Army,** B/4 32853 — Chita, Zabaykalsky Krai<sup>192</sup>

#### Subordinate to Army HQ

- 36<sup>th</sup> Guards Motorized Rifle Brigade, в/ч 06705 — Borzya, Zabaykalsky Krai<sup>193</sup>
- 200<sup>th</sup> Artillery Brigade, B/4 48271 Gorny, Zabaykalsky Krai<sup>194</sup>
- 3<sup>rd</sup> Missile Brigade, в/ч 33558 Gorny, Zabyakalsky Krai<sup>195</sup>
- 140<sup>th</sup> Anti-Aircraft Missile Brigade, В/Ч 32390 — Domna, Zabaykalsky Krai<sup>196</sup>

Pacific Fleet, в/ч 62665 — Vladivostok, Primorsky Krai<sup>197</sup>

#### Subordinate to Fleet HQ

- 155<sup>th</sup> Naval Infantry Brigade, в/ч 30926 — Vladivostok, Primorsky Krai<sup>198</sup>
- 40<sup>th</sup> Naval Infantry Brigade, в/ч 10103 Petropavlovsk-Kamchatsky, Kamchatka Krai<sup>199</sup>
- 42<sup>nd</sup> Maritime Reconnaissance Point (essentially a naval spetsnaz battalion), в/ч 59190 — Russky Island, Primorsky Krai<sup>200</sup>
- 72<sup>nd</sup> Coastal Missile Brigade, B/4 15118 Smolyaninovo, Primorsky Krai<sup>201</sup>
- 520<sup>th</sup> Coastal Missile Brigade, В/Ч 30973 — Anglichanka, Kamchatka Krai<sup>202</sup>
- 75<sup>th</sup> Coastal Missile Brigade (Newly formed in December 2020), B/4 UNK — Sakhalin and Kuril Islands<sup>203</sup>

**68**<sup>th</sup> **Army Corps,** B/4 UNK — Yuzhno-Sakhalinsk, Sakhalin and Kuril Islands<sup>204</sup>

18<sup>th</sup> Machine Gun Artillery Division (an under-resourced and insufficiently mechanized unit intended to defend the Kuril Islands against Japan), B/4 05812 — Goryachiye Klyuchi, Sakhalin Oblast <sup>205</sup>

- 46<sup>th</sup> Machine Gun Artillery Regiment, в/ч 71435—Lagunnoye, Kunashir/ Kunashiri Island, Sakhalin Oblast<sup>206</sup>
- 49<sup>th</sup> Machine Gun Artillery Regiment, в/ч 71439 — Goryachiye Klyuchi, Sakhalin Oblast<sup>207</sup>
- [Unidentified Rocket Artillery Battery], в/ч UNK — Kunashir/Kunashiri Island, Sakhalin Oblast

#### Corps-level units

39<sup>th</sup> Motorized Rifle Brigade, в/ч 35390
 Yuzhno-Sakhalinsk, Sakhalin Oblast<sup>208</sup>

• 312<sup>th</sup> Separate Rocket Artillery Battalion, в/ч UNK — Dachnoe, Sakhalin Oblast<sup>209</sup>

#### District-level units

- 338<sup>th</sup> Guards Rocket Artillery Brigade, в/ч 57367 — Ussuriysk, Krasnodar Krai<sup>210</sup>
- 38<sup>th</sup> Anti-Aircraft Missile Brigade (Newly formed in January 2020), B/4 47836 — Ptichnik, Jewish Autonomous Oblast<sup>211</sup>
- 16<sup>th</sup> Radiation, Chemical, and Biological Protection Brigade, B/4 07059 — Lesozavodsk, Primorsky Krai<sup>212</sup>
- 14<sup>th</sup> Separate Guards Engineering Brigade, B/4 30763 Vyatskoye, Khabarovsk Krai<sup>213</sup>

# Northern Fleet and Arctic Joint Strategic Command

Northern Fleet,  $B/\Psi$  20546 — Severomorsk, Murmansk Oblast<sup>214</sup>

14<sup>th</sup> Army Corps, в/ч UNK — Severomorsk, Murmansk Oblast<sup>215</sup>

- 200<sup>th</sup> Motorized Rifle Brigade, в/ч 08275
   Luostari, Pechenga and Korzunovo, Murmansk Oblast<sup>216</sup>
- 80th Arctic Motorized Rifle Brigade, B/4 34667 Alakurtii, Murmansk Oblast<sup>217</sup>

District-level units — Severomorsk, Murmansk Oblast

- 61st Naval Infantry Brigade, B/4 38643 Sputnik, Murmansk Oblast<sup>218</sup>
- 420<sup>th</sup> Maritime Reconnaissance Point (essentially a naval spetsnaz battalion), B/4 40145 — Polyarny, Murmansk Oblast<sup>219</sup>
- 536<sup>th</sup> Coastal Missile Brigade, В/Ч 10544 — Olenya Guba, Murmansk Oblast<sup>220</sup>
- 63<sup>rd</sup> Separate Marine Engineering Regiment, в/ч 36085 Severomorsk, Murmansk Oblast<sup>221</sup>

## Russian Airborne Forces (VDV)

7<sup>th</sup> Guards Mountain Air Assault Division, в/ч 61756 — Novorossiysk, Krasnodar Krai<sup>222</sup>

> 56<sup>th</sup> Guards Air Assault Regiment, B/Y UNK — Feodosia, occupied Crimea<sup>223</sup>

- 108<sup>th</sup> Guards Air Assault Regiment, в/ч 42091 — Novorossiysk, Krasnodar Krai<sup>224</sup>
- 247<sup>th</sup> Guards Air Assault Regiment, B/4 54801 — Stavropol, Stavropol Krai<sup>225</sup>
- 171<sup>st</sup> Separate Air Assault Battalion, B/4 UNK — Feodosia, occupied Crimea<sup>226</sup>
- 104<sup>th</sup> Separate Tank Battalion, B/4 UNK
   Novorossiysk, Krasnodar Krai<sup>227</sup>
- 162<sup>nd</sup> Separate Reconnaissance Battalion, B/4 54377 Novorossiysk, Krasnodar Krai<sup>228</sup>
- 1141<sup>st</sup> Artillery Regiment, в/ч 40515 Anapa, Krasnodar Krai<sup>229</sup>
- 1537<sup>th</sup> Anti-Aircraft Missile Regiment, в/ч 26345 — Novorossiysk, Krasnodar Krai<sup>230</sup>
- 3<sup>rd</sup> Guards Anti-Aircraft Missile Regiment, в/ч 94021 Novorossiysk, Krasnodar Krai<sup>231</sup>

76<sup>th</sup> Guards Air Assault Division, в/ч 07264 — Pskov, Pskov Oblast <sup>232</sup>

- 104<sup>th</sup> Guards Air Assault Regiment, В/Ч 32515 — Cherekha, Pskov Oblast<sup>233</sup>
- 234<sup>th</sup> Guards Air Assault Regiment, В/Ч 74268 — Pskov, Pskov Oblast<sup>234</sup>
- 237<sup>th</sup> Guards Air Assault Regiment, В/Ч 12865 — Pskov, Pskov Oblast<sup>235</sup>
- 124<sup>th</sup> Separate Tank Battalion, в/ч UNK — Pskov, Pskov Oblast<sup>236</sup>
- 175<sup>th</sup> Separate Reconnaissance Battalion, B/4 54399 — Pskov, Pskov Oblast<sup>237</sup>
- 1140<sup>th</sup> Artillery Regiment, в/ч 45377 Pskov, Pskov Oblast<sup>238</sup>
- 4<sup>th</sup> Guards Anti-Aircraft Missile Regiment, В/ч UNK — Pskov, Pskov Oblast<sup>239</sup>

98<sup>th</sup> Guards Airborne Division, B/4 65451 — Ivanovo, Ivanovo Oblast <sup>240</sup>

- 217<sup>th</sup> Guards Airborne Regiment, B/4 62295 — Ivanovo, Ivanovo Oblast<sup>241</sup>
- 331st Guards Airborne Regiment, B/4 71211 — Kostroma, Kostroma Oblast<sup>242</sup>
- 215<sup>th</sup> Separate Reconnaissance Battalion, B/4 65391 — Ivanovo, Ivanovo Oblast<sup>243</sup>
- 1065<sup>th</sup> Artillery Regiment, B/H 62297 Kostroma, Kostroma Oblast<sup>244</sup>

• 5<sup>th</sup> Guards Anti-Aircraft Missile Regiment, в/ч 65376 — Ivanovo, Ivanovo Oblast<sup>245</sup>

106<sup>th</sup> Guards Airborne Division, в/ч 55599 — Tula, Tula Oblast $^{246}$ 

- 51st Guards Airborne Regiment, В/Ч 33842 — Tula, Tula Oblast<sup>247</sup>
- 137<sup>th</sup> Guards Airborne Regiment, в/Ч 41450 — Ryazan, Ryazan Oblast<sup>248</sup>
- 173<sup>rd</sup> Separate Reconnaissance Battalion, B/4 54392 — Tula, Tula Oblast<sup>249</sup>
- 1182<sup>nd</sup> Artillery Regiment, B/4 93723 Naro-Fominsk, Moscow Oblast<sup>250</sup>
- I<sup>st</sup> Guards Anti-Aircraft Missile Regiment, B/4 71298 — Naro-Fominsk, Moscow Oblast<sup>251</sup>
- [Unidentified Separate Tank Battalion], в/ч UNK — Location UNK but likely Tula Oblast

#### Independent brigades not subordinate to a division

- 11th Separate Guards Air Assault Brigade, B/4 32364 Ulan-Ude, Republic of Buryatia<sup>252</sup>
- 31st Separate Guards Air Assault Brigade, B/4 73612 Ulyanovsk, Ulyanovsk Oblast<sup>253</sup>
- 83rd Separate Guards Air Assault Brigade, в/ч 71289 Ussuriysk, Primorsky Kraj<sup>254</sup>
- 45<sup>th</sup> Guards Spetsnaz Brigade (VDV unit which operates as Spetsnaz formation), в/ч 28337 — Kubinka, Moscow Oblast<sup>255</sup>

# GRU Spetsnaz and Special Operations Forces

Spetsnaz Brigades (subordinate to the General Staff's Main Intelligence Directorate)

- 2<sup>nd</sup> Guards Special Purpose Brigade, в/ч 64044 — Pskov, Pskov Oblast<sup>256</sup>
- 3<sup>rd</sup> Guards Special Purpose Brigade, в/ч 21208 — Tolyatti, Samara Oblast<sup>257</sup>
- 10<sup>th</sup> Guards Special Purpose Brigade, в/ч 51532 — Molkino, Krasnodar Krai<sup>258</sup>
- I4<sup>th</sup> Guards Special Purpose Brigade, B/Y
   74854 Khabarovsk, Kharbarovsk Krai<sup>259</sup>
- 16<sup>th</sup> Guards Special Purpose Brigade, в/ч 54607 — Tambov, Tambov Oblast<sup>260</sup>
- 22<sup>nd</sup> Guards Special Purpose Brigade, B/4 11659 — Stepnoy, Rostov Oblast<sup>261</sup>
- 24<sup>th</sup> Guards Special Purpose Brigade, B/4 55433 — Novosibirsk, Novosibirsk Oblast<sup>262</sup>
- 25<sup>th</sup> Guards Special Purpose Regiment, в/ч 05525 — Stavropol, Stavropol Krai<sup>263</sup>

#### **Special Operations Command**

• KSSO forces, formed around the core of the 346<sup>th</sup> Guards Special Purpose Brigade, B/4 UNK — Kubinka, Moscow Oblast

# RUSSIAN REGULAR GROUND FORCES ORDER OF BATTLE



# Interactive Map

Noel Mikkelsen and George Barros with Thomas Bergeron, Daniel Mealie, and Mitchell Belcher



storymaps.arcgis.com/stories/6d9825cbafcd4cbf91cb6ce80d9e3f0f

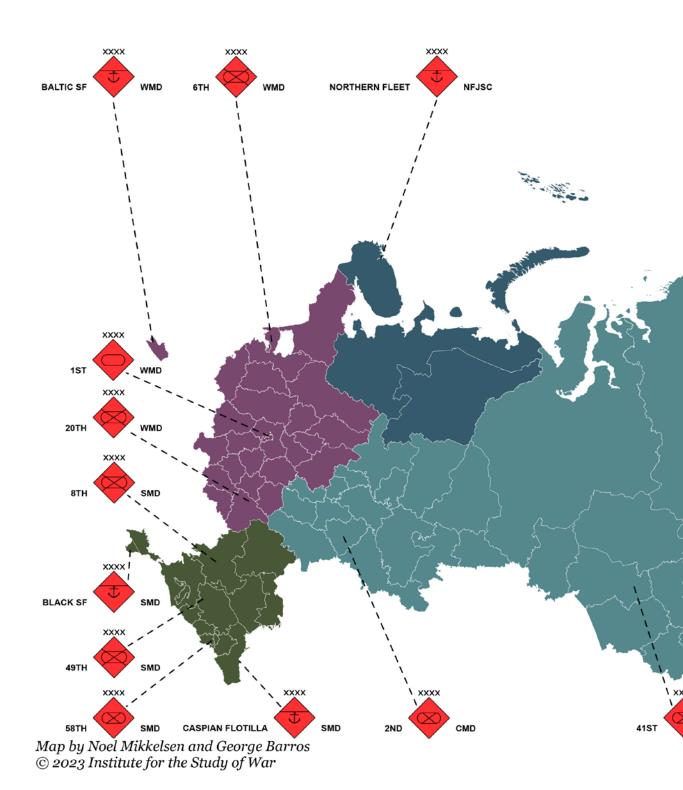
# Russian Military Districts

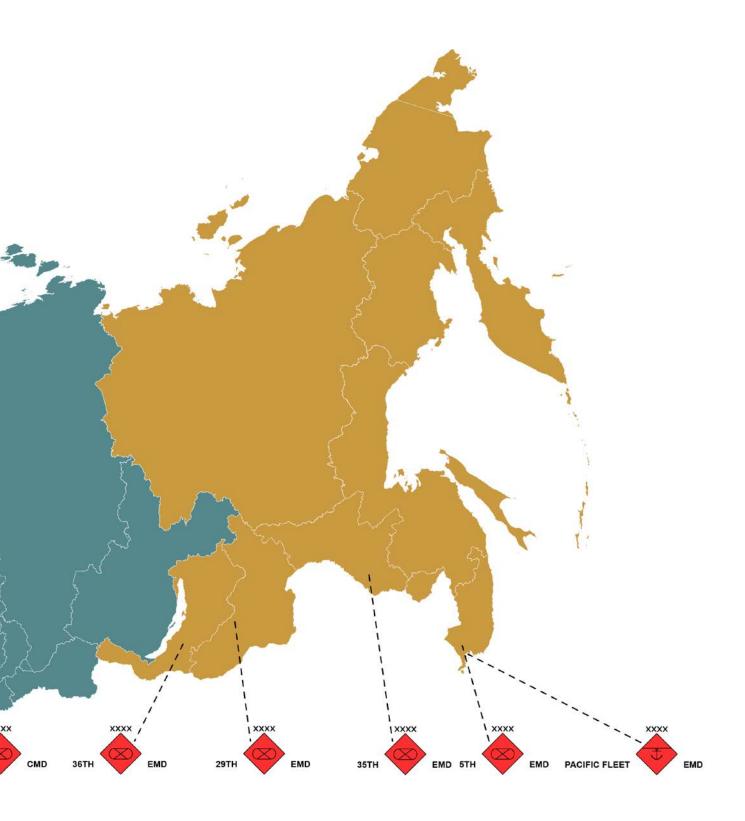


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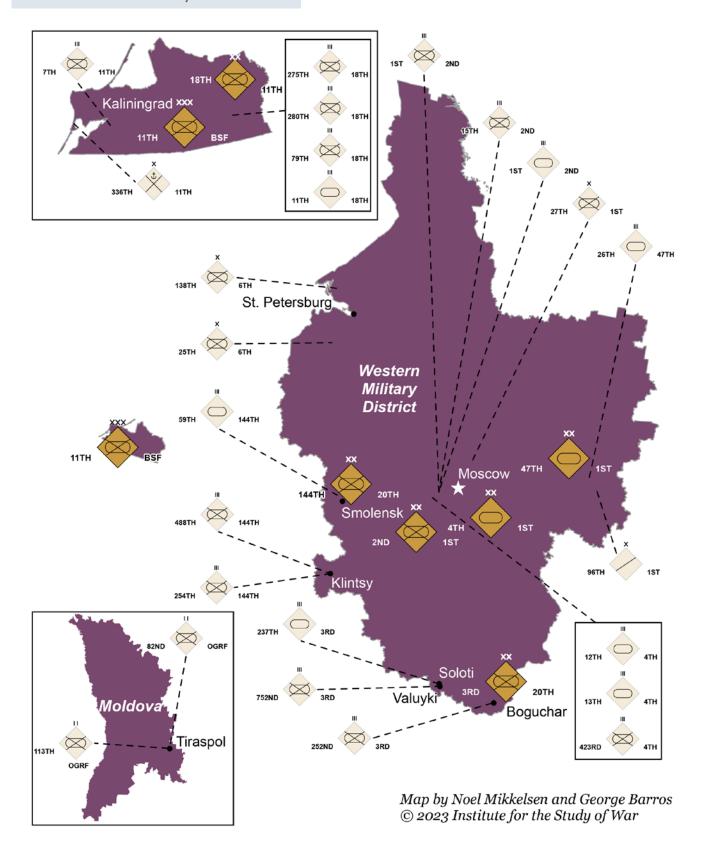


# Russian Army Headquarters

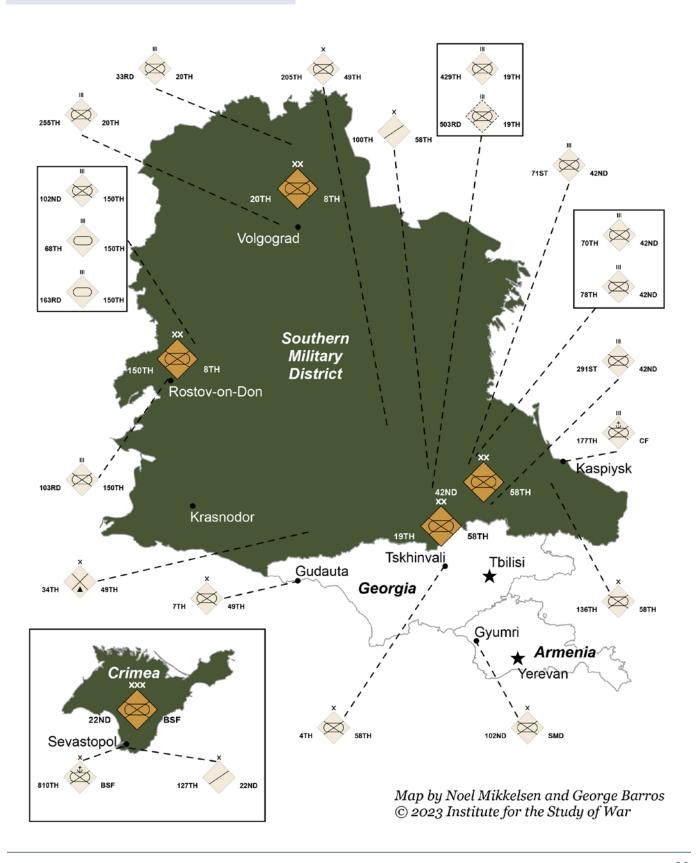




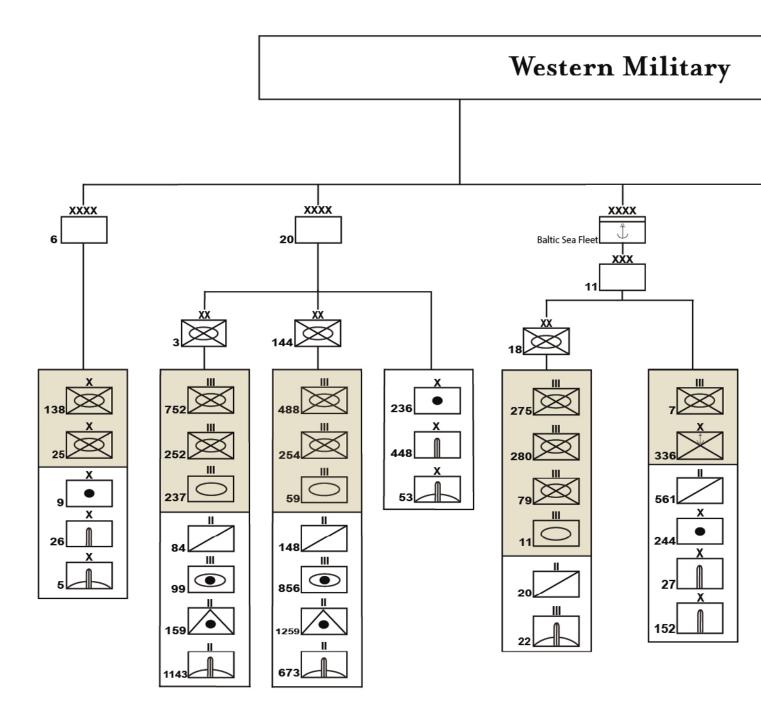
# Western Military District



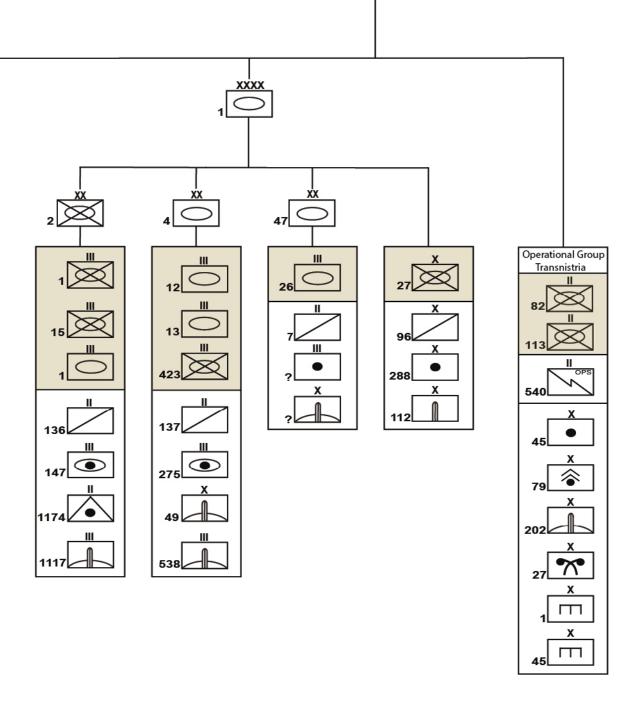
# Southern Military District



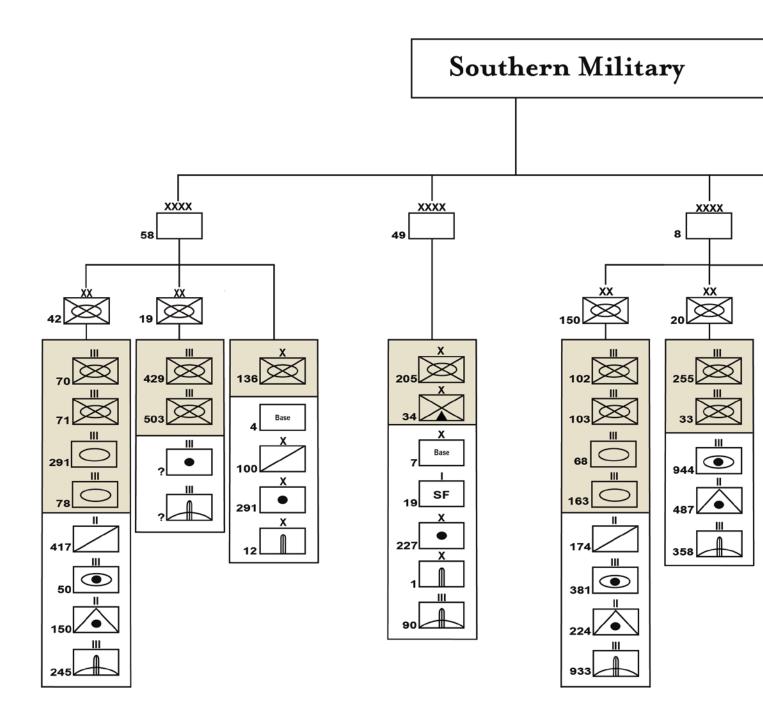
## Russian Order of Battle

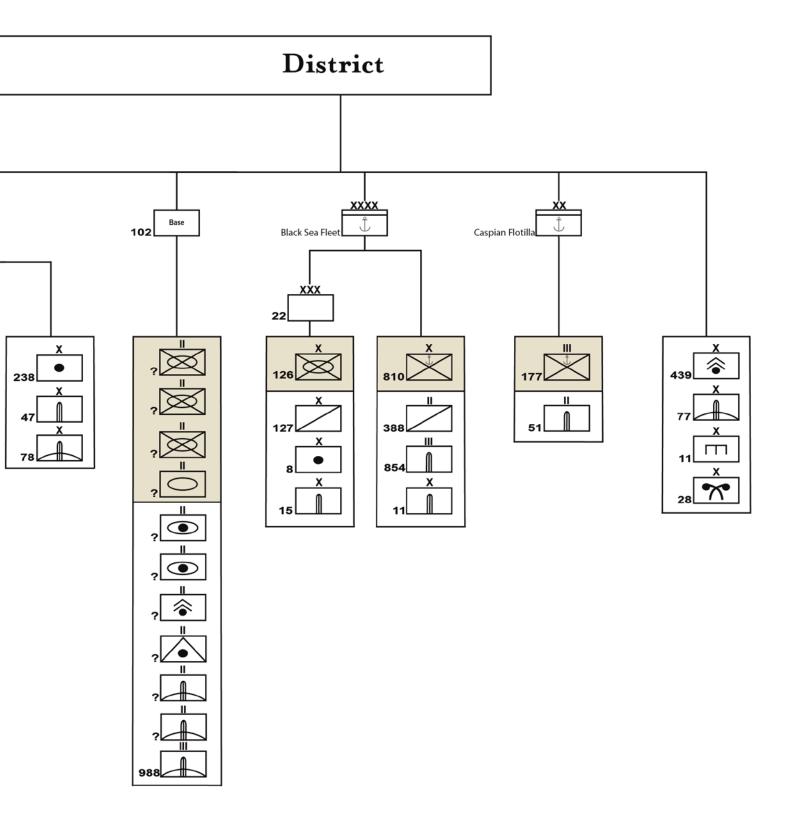




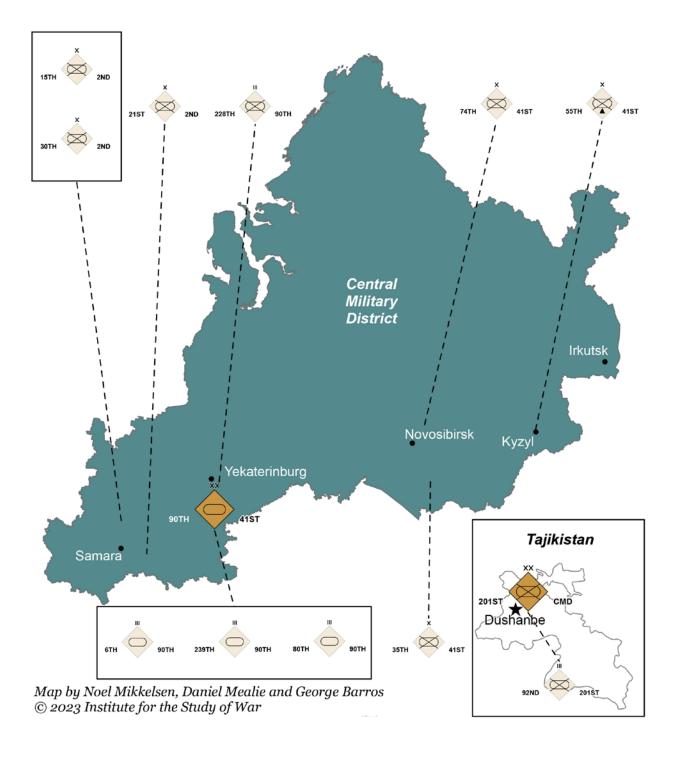


## Russian Order of Battle

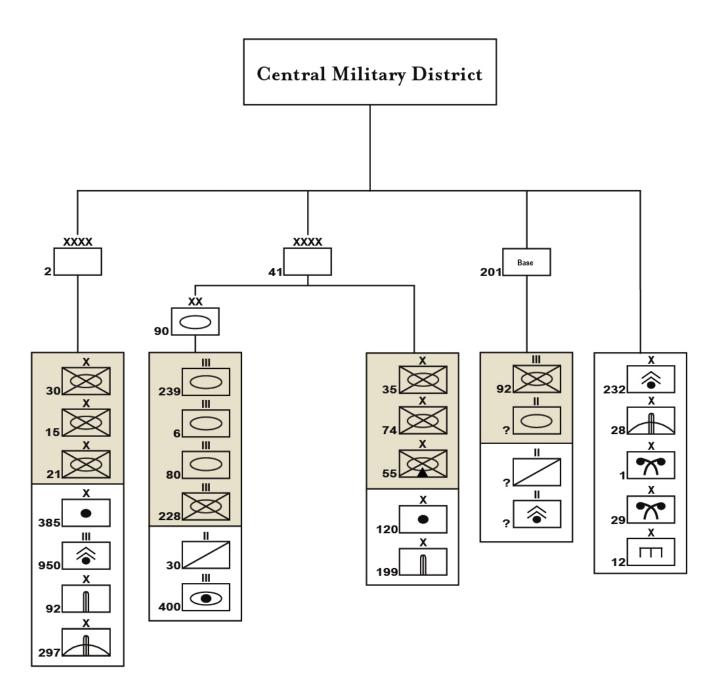




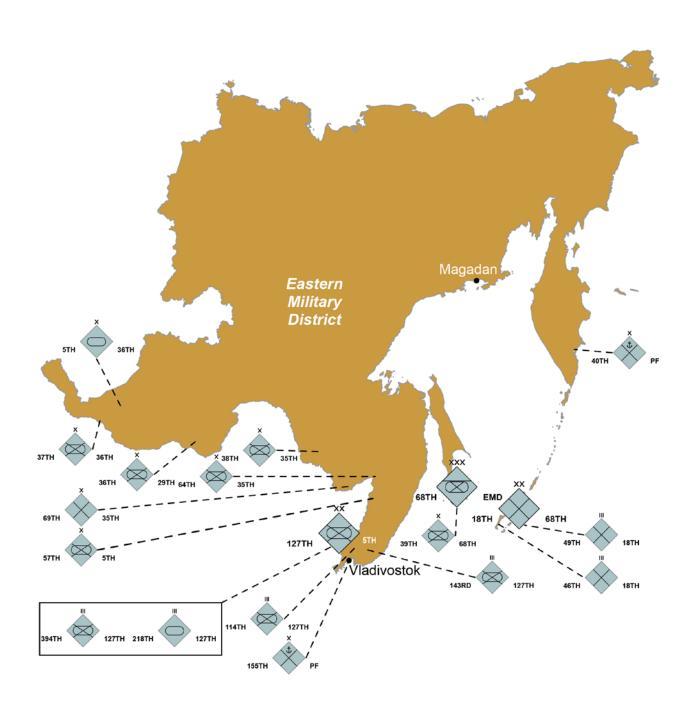
# **Central Military District**



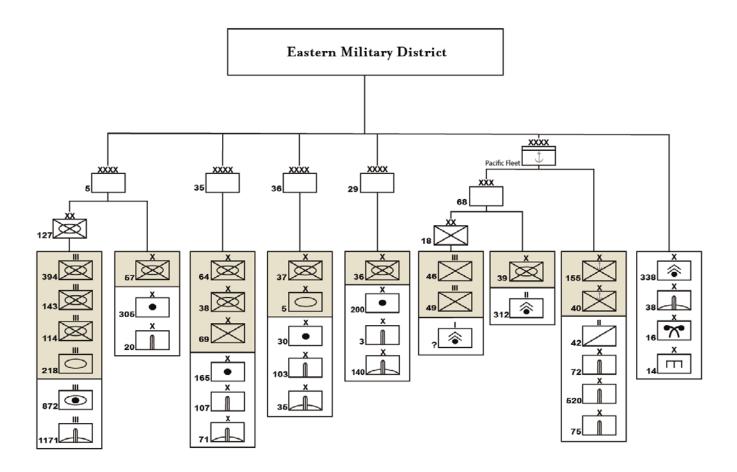
## Russian Order of Battle



# Eastern Military District



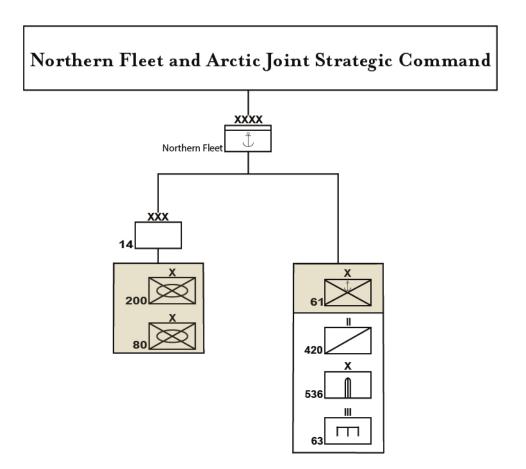
Map by Noel Mikkelsen, Thomas Bergeron, and George Barros © 2023 Institute for the Study of War



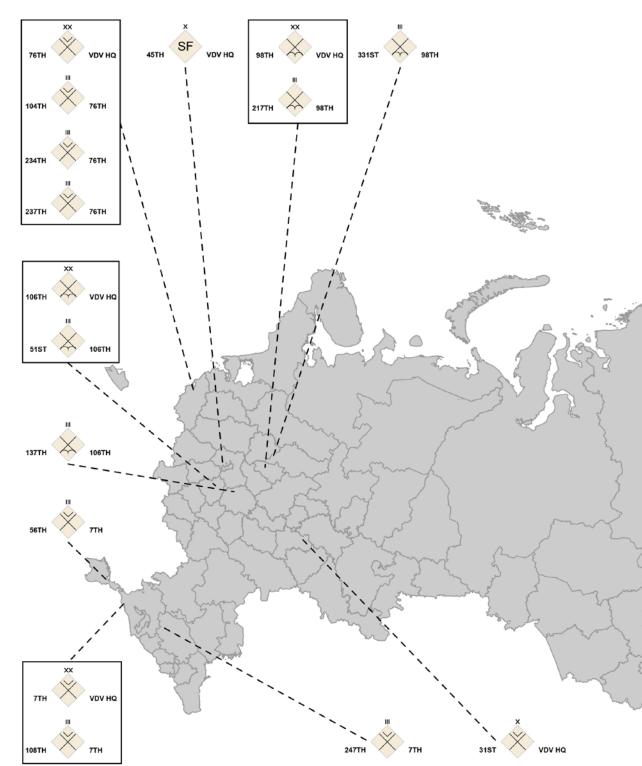
## Northern Fleet and Arctic Joint Strategic Command



Map by Noel Mikkelsen, Daniel Mealie, and George Barros © 2023 Institute for the Study of War



## Russian Airborn Forces (VDV) Units



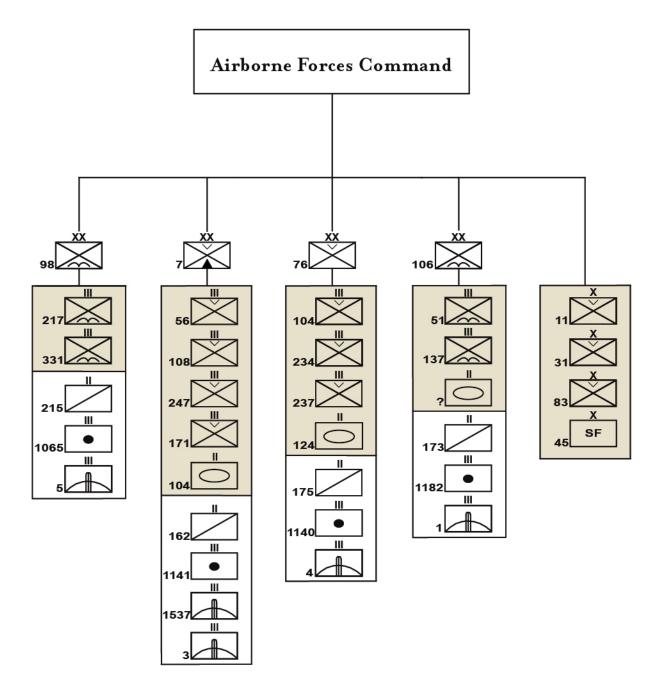
Map by Noel Mikkelsen and George Barros © 2023 Institute for the Study of War



# Russian Spetsnaz Units Subordinate to the General Staff's Main Intelligence Directorate (GRU)

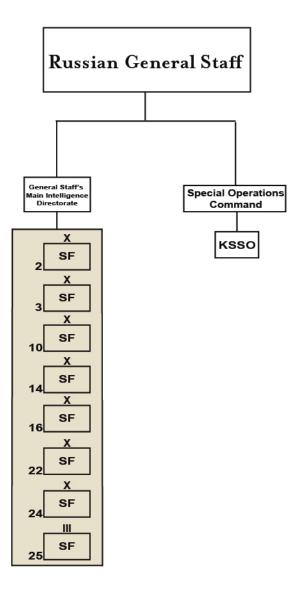






44

## GRU Spetsnaz and Special Operations Command



## Key

Indicates Combat Unit	
Infantry	Missile
Motor Rifle	Antiaircraft-Missile
Mountain Infantry	Tank
Mountain Motor Rifle	Base Military Base
Naval Infantry	• Artillery
Airborne Infantry	Anti-Tank Artillery
Air Assault Infantry	Self-Propelled Artillery
SF Special Forces (Spetsnaz)	Reactive Artillery
Reconnaissance	CBRN
Engineer Engineer	Command and Control

## Appendix A: Glossary of Russian Unit Types

### Primary unit types

- Motorized rifle: Infantry mounted on tracked or wheeled armored personnel carriers, and the main combat power of the Russian ground forces. The entire Russian ground force is "mechanized," in the Western parlance. Motorized rifle brigades and regiments have a paper strength of three motorized rifle battalions and one tank battalion.
- Tank: The main strike force of the Russian ground forces. Tank brigades and regiments have a paper strength of three tank battalions and one motorized rifle battalion.
- Naval Infantry: Russia's marines, though in no way comparable to the US Marine Corps in size or joint capabilities. The Naval Infantry are fully mechanized and equipped similarly to motor rifle and VDV forces.
- VDV: Russia's Airborne forces, and the elite of the regular Russian military. Contrary to common misconceptions, the VDV are considered the elite of the Russian military, not the GRU Spetsnaz units. VDV units are fully mechanized with airmobile specialty vehicles more lightly armored (but frequently as heavily armed) as motor rifle units. Airborne units are dropped via parachute, and air assault units operate via rotary wing aircraft.

## Artillery

- Regular: Some Russian motorized rifle units continue to operate towed howitzer artillery.
- Self-propelled: The Russian army increasingly operates armored and mechanized artillery, and most CAA-level artillery batteries are self-propelled.
- Rocket artillery: Multiple Launch Rocket Systems (MLRS), most commonly the "Grad" system.
- Anti-tank artillery: Units equipped with a mix of self-propelled antitank artillery and ATGMequipped vehicles.

## Support units

- Reconnaissance: Dedicated ISR (Intelligence Surveillance, and Reconnaissance) units.
- Missile brigade: Short-range ballistic missile assets equipped primarily with the Iskander system. These units fill a tactical-operational precision fires niche often filled by air power in NATO militaries.
- Anti-aircraft missile brigade: Short and medium-range anti-air missile systems such as the "Strela" and "Tor." Long range operational/strategic air defense assets such as the S-300 and S-400 are part of the Aerospace Defense Forces, not the Russian Army and are not covered in this ORBAT.
- Coastal missile: "Bal" and "Bastion" anti-ship missile systems intended to defend Russian coastal waters.
- Nuclear, Biological, and Chemical (NBC)
  Protection Troops: NBC units operate thermobaric artillery systems, and are therefore included in this ORBAT as a combat support unit at the Military District level.
- Spetsnaz: Short for "spetsialnogo naznacheniya," or "special purpose" units. Spetsnaz is often used as a general term for special operations forces operated by Russian security organizations such as Rosgvardia and the Ministry of Internal Affairs. This report uses this term to refer only to the military forces of the GRU (Main Intelligence Directorate, now technically simply the Main Directorate or "GU" but still commonly referred to as the GRU), the General Staff's military intelligence organization. Spetsnaz units are directly subordinate to the General Staff through the GRU and are intended to serve as reconnaissance and sabotage units, but in practice have been pressed into service in Ukraine as light infantry in heavy fighting.
- Special Operations Command: Russia's Special Operations Command (KSSO) was created in

March 2013 and is explicitly modeled on Western special forces. The KSSO reports directly to the General Staff – and does not run through the GRU, unlike Spetsnaz brigades. The KSSO is formed around the core of the 346th Special Purpose Brigade, which retains this unit designation in some reporting but is no longer a typical GRU Spetsnaz unit.

#### Unusual maneuver units

- Machine gun artillery: The EMD's 18th Machine Gun Artillery Division is a defensive unit assigned to defend the Kuril Islands from Japan, though it reportedly deployed to Ukraine in 2022. Functionally an understrength but artillery-heavy motorized rifle division.
- Covering brigade: The 69th Separate Covering Brigade is similar to the Machine Gun Artillery Division, an understrength and artillery-heavy motorized rifle brigade intended to provide initial defense of Russia's border with China.

• Coastal defense: The maneuver units of the Army Corps subordinated to Russia's Fleet Headquarters. Equipped, trained, and deployed as motorized rifle units.

#### Unit titles

- Guards: An honorary title assigned to units assessed to have shown heroism and elite qualities. Several Russian units have newly received the "Guards" title during the 2022 invasion of Ukraine, and as of late 2023 the title has little correlation with unit quality.
- Mountain: Several Army and VDV units, predominantly based in or near the Caucasus, are trained for combat in mountainous environments.
- Arctic: The Northern Fleet's 200th and 80th Brigades (only the 80th is formally designated "Arctic") are smaller than regular motorized rifle brigades and are trained and equipped for combat in the Arctic Circle.

## Appendix B: Bibliography and Further Reading

## Further reading on the Russian Armed Forces

- Mark Galeotti, Putin's Wars: From Chechnya to Ukraine (Oxford: Osprey, 2022) – An excellent general introduction to the Russian military's evolution from 1991 to February 2022 and general capabilities.
- Lester W. Grau and Charles K. Bartles, "The Russian Way of War: Force Structures, Tactics, and Modernization of the Russian Ground Forces," Foreign Military Studies Office, August 22, 2017,https://www.armyupress.army.mil/portals/7/hot%20spots/documents/russia/2017-07-the-russian-way-of-war-graubartles.pdf This book by Grau and Bartles is the most detailed open-source guide available to Russian tactical and operational doctrine and force composition, including equipment details. This work is slightly out of date due to

- Russian force restructuring since 2016 and the return of divisions, but remains an essential source.
- Aleksei Ramm, "The Russian Army: Organization and Modernization," Center for Naval Analyses, October 1, 2019, https://www.cna.org/reports/2019/10/IOP-2019-U-021801-Final.pdf This report is the best readable reference on Combined Arms Army (CAA) composition and the division vs brigade structure.
- Konrad Muzyka, "Russian Forces in the Western Military District," Center for Naval Analyses, June I, 202I, https://www.cna.org/reports/202I/06/Russian-Forces-in-the-Western-Military-District.pdf; Konrad Muzyka, "Russian Forces in the Southern Military District," Center for Naval Analyses, August 24, 202I, https://www.cna.org/reports/2022/0I/Russian-Forces-in-the-Southern-Military-District.pdf

- These two reports are excellent deep dives on the structure and pre-February 2022 capabilities of Russian forces in the Western and Southern Military Districts.
- Michael Kofman, Anya Fink, Dmitry Gorenburg, Mary Chesnut, Jeffrey Edmonds, and Julian Waller, "Russian Military Strategy: Core Tenets and Operational Concepts," Center for Naval Analyses, August 6, 2021, https://www.cna.org/archive/CNA\_Files/pdf/russian-military-strategy-core-tenets-and-operation-al-concepts.pdf This report is a higher-level look at theoretical Russian military strategy. It situates the Russian units covered in this OR-BAT in doctrinal Russian thinking and excellently explains how the districts are theoretically intended to function in wartime. This report also includes a valuable glossary of the definitions of Russian military terms.
- Timothy L. Thomas, "Russian Military Thought: Concepts and Elements," MITRE Corporation, August 8, 2019, https://www.mitre.org/sites/default/files/2021-II/prs-19-1004-russian-military-thought-concepts-elements.pdf A detailed and holistic study of Russian military thinking and conceptualization of modern and future war.
- Mykhaylo Zabrodskyi, Jack Watling, Oleksandr V. Danylyuk, and Nick Reynolds, "Preliminary Lessons in Conventional Warfighting from Russia's Invasion of Ukraine: February-July 2022," Royal United Services Institute, November 30, 2022, https://static.rusi.org/359-SR-Ukraine-Preliminary-Lessons-Feb-July-2022-web-final.pdf A fantastic analysis of Russian and Ukrainian performance in the initial months of the 2022 invasion of Ukraine, including discussion of Russia's deviations from established doctrine in initial lessons learned applicable to conventional warfighting writ large.
- Jack Watling and Nick Reynolds, "Meatgrinder: Russian Tactics in the Second Year of Its Invasion of Ukraine," Royal United Services Institute, May 19, 2023, https://static.rusi.org/403-SR-Russian-Tactics-web-final.pdf Another excellent RUSI report, covering Russian tactics and adaptations in early 2023.

• Scott Boston and Dara Massicot, "The Russian Way of Warfare: A Primer," RAND Corporation, 2017, https://www.rand.org/pubs/perspectives/PE231.html – Similar to this report, this RAND work is an introduction to Russian military thinking for non-experts, but with a focus on theoretical Russian approaches to conventional war with NATO.

# Further reading on the Battalion Tactical Group

- Lester W. Grau and Charles K. Bartles, "Getting to Know the Russian Battalion Tactical Group," Royal United Services Institute, April 14, 2022, https://rusi.org/explore-our-research/publications/commentary/getting-know-russian-battalion-tactical-group An excellent primer on the Russian BTG, written in the early months of the 2022 invasion of Ukraine.
- Nicolas J. Fiore, "Defeating the Russian Battalion Tactical Group," ARMOR Mounted Maneuver Journal Vol. 128, No. 2 (Spring 2017): pp. 9-17, https://www.benning.army.mil/armor/earmor/content/issues/2017/spring/2Fiore17.pdf An article assessing tactics for US Brigade Combat Teams to defeat Russian BTGs.
- Michael Kofman and Rob Lee, "Not Built for Purpose: The Russian Military's Ill-Fated Force-Design," War on the Rocks, June 2, 2022, https://warontherocks.com/2022/06/not-built-for-purpose-the-russian-militarys-ill-fated-force-design/ The best general report available on the Russian use of BTGs in the specific context of Ukraine in 2022.
- Amos C. Fox, "Reflections on Russia's 2022 Invasion of Ukraine: Combined Arms Warfare, The Battalion Tactical Group and Wars in a Fishbowl," Association of the United States Army, September 29, 2022, https://www.ausa.org/publications/reflections-russias-2022-invasion-ukraine-combined-arms-warfare-battalion-tactical An interesting report on Russian failures over projecting the utility of BTGs in Ukraine in 2014-2015 with disastrous results in 2022.

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