

ARCTIC  
STORM  
RISING

A NOVEL

DALE  
BROWN



WILLIAM MORROW

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# CAST OF CHARACTERS

## AMERICANS

CAPTAIN NICHOLAS “NICK” FLYNN, U.S. Air Force intelligence officer, assigned undercover to Wizard One-One, an HH-60W “Jolly Green II” combat search-and-rescue helicopter

CAPTAIN SCOTT “FX” DYKSTRA, U.S. Air Force, command pilot, Wizard One-One

TECHNICAL SERGEANT CARL “ZEE” ZALEWSKI, U.S. Air Force, pararescue jumper assigned to Wizard One-One

CAPTAIN KATE “GHOST” KASPER, U.S. Air Force, copilot, Wizard One-One

STAFF SERGEANT BILL WADE, U.S. Air Force, flight engineer and gunner, Wizard One-One

TECHNICAL SERGEANT MIKE CAMARILLO, U.S. Air Force, pararescue jumper assigned to Wizard One-One

“ANDERSON WHITE,” head of an OGA “Other Government Agency” (CIA) black ops team

SERGEANT FIRST CLASS ANDY TAKIRAK, Alaska Army National Guard, senior noncommissioned officer assigned to Captain Nick Flynn’s Joint Force security team

PETE JOHANSSON, civilian maintenance supervisor, Barter Island Long Range Radar Site, Kaktovik, Alaska

SMITTY WALZ, civilian electronics technician, Barter Island  
Long Range Radar Site

MARTA MCINTYRE, civilian cook and “gofer,” Barter Island  
Long Range Radar Site

SENIOR AIRMAN MARK “M-SQUARED” MITCHELL, U.S. Air Force,  
communications specialist assigned to Flynn’s Joint Force  
security team

PRIVATE FIRST CLASS COLE HYNES, U.S. Army, assigned to Joint  
Force security team

TRIG JENSEN, hermit trapper working the Arctic National  
Wildlife Refuge in Alaska

MIRANDA REYNOLDS, head of the CIA’s Directorate of Operations

JONAS MURPHY, U.S. Director of National Intelligence

BILL TAYLOR, U.S. Secretary of Defense

REAR ADMIRAL KRISTIN CHAO, U.S. Navy, head of the  
Pentagon’s operations directorate

GENERAL FRANK NEARY, U.S. Air Force, Chief of Staff

STAFF SERGEANT PEGGY BAKER, 176th Air Defense Squadron,  
Alaska Air National Guard, radar specialist, Joint Base  
Elmendorf-Richardson, Alaska

LIEUTENANT COLONEL CARMEN REYES, 176th Air Defense  
Squadron, Alaska Air National Guard, operations center  
supervisor, Joint Base Elmendorf-Richardson

SPECIALIST RAFAEL SANCHEZ, U.S. Army, Carl Gustaf 84mm  
recoilless rifle gunner attached to Flynn’s Joint Force  
security team

PRIVATE WADE VUCOVICH, U.S. Army, assigned to Joint Force  
security team

MAJOR JACK “RIPPER” INGALLS, 211th Rescue Squadron, Alaska  
Air National Guard, HC-130J Super Hercules pilot

CAPTAIN LAURA “SKATER” VAN HORN, 211th Rescue Squadron,  
Alaska Air National Guard, HC-130J copilot

GENERAL KEITH MAKOWSKI, U.S. Air Force, commander, North American Aerospace Defense Command (NORAD)

CAPTAIN AMANDA JAFFE, U.S. Air Force, Information Integration Officer, RC-135V Rivet Joint ELINT (Electronic Intelligence) aircraft

TECHNICAL SERGEANT PHILIP KIJAC, cryptologic language analyst, RC-135V Rivet Joint aircraft

COLONEL LEONARD HUBER, U.S. Air Force, commander, Third Wing, Joint Base Elmendorf-Richardson

CAPTAIN CONNOR “DOC” MCFADDEN, U.S. Air Force, F-22 Raptor fighter pilot

LIEUTENANT ALLISON “CAT” PARILLA, U.S. Air Force, F-22 Raptor fighter pilot

MAJOR KING, 176th Wing, Alaska Air National Guard, liaison officer to Third Wing

LIEUTENANT GENERAL DAVID ROSENTHAL, U.S. Air Force, commander, Alaskan Command (ALCOM), Joint Base Elmendorf-Richardson

PRIVATE FIRST CLASS TORVALD PEDERSEN, U.S. Army, designated rifle marksman for Flynn’s Joint Force security team

AIRMAN PETER KIM, U.S. Air Force, assigned to Joint Force security team

STAFF SERGEANT TIM WAHL, Alaska Air National Guard, HC-130J Super Hercules loadmaster

PRIVATE NOAH BOYD, U.S. Army, assigned to Joint Force security team

PRIVATE MIKE SIMS, U.S. Army, assigned to Joint Force security team

PRIVATE FLOYD LEFFERT, U.S. Army, assigned to Joint Force security team

PRIVATE GENE SANTARELLI, U.S. Army, assigned to Joint Force security team

## RUSSIANS

COLONEL ALEXEI PETROV, Russian Air Force test pilot in charge  
of the PAK-DA prototype stealth bomber flight test program  
MIKHAIL IVANIN, CEO of the Tupolev aerospace and defense  
company

GEORGY REMIZOV, Tupolev corporate test pilot

DMITRI GRISHIN, oligarch and CEO of *Severnaya Zvezda Stolitsa*  
(North Star Capital), one of Russia's largest industrial and  
financial conglomerates

DR. VIKTOR OBOLENSKY, neurologist employed at the Bekhterev  
Private Clinic in Moscow

MAJOR OLEG BUNIN, Russian Air Force test copilot for the  
PAK-DA stealth bomber flight test program

PAVEL VORONIN, confidential assistant and troubleshooter for Grishin

SERGEI BONDAROVICH, ex-Spetsnaz major now working for Voronin

PIOTR ZHDANOV, president of the Russian Federation

MAJOR GENERAL VASILY MAVRICHEV, Russian Air Force, commander  
of the Long-Range Aviation Force

LIEUTENANT GENERAL YVGENY ROGOZIN, commander, Russian  
Air Force

MAJOR VALENTIN YAKUNIN, Su-30 fighter pilot

CAPTAIN IVAN SALTIKOV, Su-30 fighter weapons officer

KONSTANTIN YUMASHEV, head of the Federal Security Service,  
the FSB

GENNADIY KOKORIN, Minister of Defense

ADMIRAL NIKOLAI GOLITSYN, commander, Russian Navy

SERGEI VESELOVSKY, head of the Foreign Intelligence Service,  
the SVR

ALEKSANDR IVASHIN, head of the General Staff's military  
intelligence agency, the GRU

MAJOR VADIM KURYOKHIN, Russian Air Force, Su-35S fighter pilot

CAPTAIN ILYA TROITSKY, Russian Air Force, Su-35S fighter pilot

COLONEL IOSIF ZINCHUK, Russian Air Force, commander, Tu-142 maritime reconnaissance aircraft

CAPTAIN SUKACHOV, Russian Air Force, Tu-142 defense systems operator

LIEUTENANT GORSHENIOV, Russian Air Force, Tu-142 second navigator

CAPTAIN YURI BASHALACHEV, Russian Air Force, Tu-142 bombardier-navigator

CAPTAIN ARKADY TIMONOV, Russian Spetsnaz special forces, commander, reconnaissance-attack team outside Joint Base Elmendorf-Richardson

LIEUTENANT LEONID BRYKIN, Russian Spetsnaz special forces team outside Joint Base Elmendorf-Richardson

CAPTAIN FIRST RANK MIKHAIL NAKHIMOV, Russian Navy, commander, SSBN BS-64 *Podmoskovye*

SENIOR LIEUTENANT ANATOLY YALINSKY, Russian Navy, diving officer, SSBN BS-64 *Podmoskovye*

MAJOR GENNADY KORENEV, Russian Spetsnaz special forces, commander, Raven assault force

CAPTAIN PRIMAKOV, Russian Spetsnaz special forces, second-in-command, Raven assault force

COLONEL GENERAL ANATOLY GRUZDEV, commander, Russian Strategic Rocket Forces

## CANADIAN

PETER GOWAN, Royal Canadian Air Force, deputy commander, North American Aerospace Defense Command (NORAD)

# WEAPONS AND ACRONYMS

## WEAPONS

- AIM-9X—American heat-seeking air-to-air missile
- AK-12—Russian assault rifle
- AMRAAM—Advanced Medium-Range Air-to-Air Missile, American radar-guided air-to-air missile
- AN/APG-77—American advanced aircraft radar system
- AN/PRC-162—American handheld tactical radio
- Anza Mk III—Pakistani shoulder-fired antiaircraft missile
- F-22 Raptor—American fifth-generation fighter aircraft
- FPS-117—American phased array air surveillance radar
- HC-130J—American combat search-and-rescue aircraft
- IL-38—Russian radar-equipped patrol plane
- IL-78M-90A—Russian aerial refueling aircraft
- IRBIS-E—Russian advanced passively scanned phased array fighter radar
- IRST—Infrared Search and Track, Russian passive air detection and tracking system



- Kamov Ka-60 *Kosatka*—Russian medium-range troop transport helicopter
- Korshun-KN-N—Russian long-range aerial search radar
- Mil Mi-26T2—Russian heavy-lift helicopter
- RC-135V—American reconnaissance aircraft
- Tu-95—Russian long-range bomber aircraft
- Tu-142—Russian long-range reconnaissance aircraft, converted from the Tu-95 bomber
- Tu-214R—Russian advanced long-range reconnaissance aircraft

## ACRONYMS

- ACAWS—Advisory, Caution, and Warning System; aircraft systems alerting system
- ARCC—Alaska Rescue Coordination Center, directs rescue responses in Alaska
- ARTCC—Air Route Traffic Control Center, American wide-range air traffic control
- AWACS—Airborne Warning and Control System, American aerial radar system
- CSAR—Combat Search and Rescue
- DEFCON—Defense Condition, a series of coordinated actions in response to a military crisis
- DNI—Director of National Intelligence, American executive in charge of all intelligence agencies
- ECR—Emergency Conference Room, American Pentagon meeting area
- ELINT—Electronic Intelligence

- GRU—*Glavnoje Razvedyvatel'noje Upravlenije*, Russian military intelligence
- HUD—Heads-Up Display, a system that displays flight and weapons information so a pilot does not have to look down to read it
- HUMINT—Human Intelligence
- JBER—abbreviation for Joint Base Elmendorf-Richardson, American military installation near Anchorage, Alaska
- JCS—Joint Chiefs of Staff, the senior uniformed leaders of the six branches of the American military
- MILES—Multiple Integrated Laser Engagement System, a “laser tag” infantry training system
- NORAD—North American Aerospace Defense Command, the joint American-Canadian command that directs air defense of North America
- RAOC—Regional Air Operations Center, a U.S. Air Force unit that directs airborne air defense activities
- RCAF—Royal Canadian Air Force
- RCS—radar cross-section, a value relating to an object being detected by radar
- RWR—radar warning receiver, a device that detects and classifies radar energy
- SecDef—abbreviation for the American secretary of defense
- SIGINT—Signals Intelligence, the process of obtaining, identifying, and disseminating radio signals
- SVR—*Sluzhba Vneshney Razvedki*, Russian Foreign Intelligence Service