

## Introduction

### The Rise of a New Polar Power

On September 2, 2015, the Pentagon reported the visit of five People's Liberation Army-Navy (PLAN) vessels to US territorial waters off the coast of Alaska.<sup>1</sup> It was the first ever incursion by Chinese navy boats into the Arctic region. Occurring only the day before China's biggest-ever military parade, and just as US president Barack Obama was making his own first visit to Alaska to announce his new Arctic policies, PLAN's brief voyage showcased China's growing naval reach and desire to expand operations into Arctic waters. The five boats, consisting of three surface warships, an amphibious vessel, and a supply ship, had been participating in a military exercise with Russian forces near Vladivostok. They then voyaged thousands of kilometers north to the Bering Sea, where they transited the US Aleutian Islands, before heading home to Chinese waters.

The official US response was muted: China was simply playing the same game that the US Navy has played for years in the South China Sea and Taiwan Strait, exercising the right of innocent passage to show off its sea power. Behind the scenes, however, the message was clear – China was announcing that it had military interests in the Arctic and intended to expand its operations there. One month later, in late September and early October 2015, PLAN drove this point home, giving a further demonstration of emerging Arctic sea power by sending a destroyer, a frigate, and a supply ship on goodwill visits to Denmark, Finland, and Sweden.

The incursion into US territorial waters was much more than a stunning example of China's growing maritime capacities and its ability to reach the polar regions. The frenzied international media attention over the boldness of

<sup>1</sup> Andrea Chen, "Chinese Navy Sends Washington a Message by Patrolling Near Largest US State Alaska," *South China Morning Post*, September 4, 2015, <http://www.scmp.com/news/china/diplomacy-defence/article/1855448/chinese-navy-sends-america-message-patrolling-near>.

China's display, which drowned out Obama's visit to the Arctic, underscored the broader import of China's actions. The controversy associated with China's expansion into the polar regions reflects its potential to upend the global order, just as it has done in multiple sectors of the global economy, in its nearby oceans through projection of its naval power, and even in outer space. In the past ten years, as part of its overall expanding global foreign policy, China has become a leading polar player with wide-ranging and complex interests in both the Arctic and Antarctic. China is now emerging as a member of the unique club of nations that are powerful at both poles. Polar states are global giants, strong in military, scientific, and economic terms. China's leaders view their country's expanding polar presence as a way to demonstrate China's growing global power, and to achieve international recognition for this new status.<sup>2</sup>

To anyone who was watching closely, China's polar push has been advancing on numerous fronts, both public and private. In 2014, the Chinese polar icebreaker *Xue Long* helped in the dramatic rescue of the trapped Russian research vessel *Akademik Shokalskiy* in Antarctic waters. In 2012, Chinese entrepreneur Huang Nubo tried and failed to purchase a section of remote Iceland farmland to build a luxury hotel and eco-resort;<sup>3</sup> in 2014, he tried to purchase land in Svalbard, and finally succeeded in purchasing a massive tract of land in Tromsø, Norway.<sup>4</sup> In 2014, the China National Space Administration constructed a ground receiving station for the civil-military BeiDou-2 satellite navigation system in Antarctica, which will extend coverage to a global scale.<sup>5</sup> And in November 2015, China's polar science program announced that it had attained "fully self-sufficient land, sea, and air capabilities at the poles."<sup>6</sup>

<sup>2</sup> "Chen Lianzeng fu juzhang chuxi Zhongguo jidi kaocha gongzuo zixun weiyuanhui di 13 ci huiyi" [Vice Director Chen Lianzeng attends 13th meeting of the China Polar Expedition Work Group], State Oceanic Administration, May 20, 2011, [http://www.mlr.gov.cn/xwdt/hyxw/201105/t20110520\\_868036.htm](http://www.mlr.gov.cn/xwdt/hyxw/201105/t20110520_868036.htm).

<sup>3</sup> Alëx Elliott, "Chinese Investor Still Hot on Iceland Despite Politicians," *Iceland Review*, April 25, 2014, <http://icelandreview.com/news/2014/04/25/chinese-investor-still-hot-iceland-despite-politicians>.

<sup>4</sup> Knut-Eirik Lindblad, "Norwegian Landowner Sells Huge Amount of Land to Chinese Billionaire Huang Nubo," *Nordlys*, May 16, 2014, <http://www.nordlys.no/nyheter/article7362483.ece>.

<sup>5</sup> Andrew Darby, "China's Antarctica Satellite Base Plans Spark Concerns," *Sydney Morning Herald*, November 12, 2014, <http://www.smh.com.au/world/chinas-antarctica-satellite-base-plans-spark-concerns-20141112-11l3wx.html>.

<sup>6</sup> Luo Sha, "Wo guo jidi kaocha jiang xin gou feiji xinjian pobingchuan" [China's polar expedition will purchase new airplane and icebreaker], *Xinhua*, February 3, 2014, <http://tech.sina.com.cn/d/2014-02-03/11279140668.shtml>.

China's rise as a polar power has been dramatic and rapid. When, in 2004, Chinese polar officials voiced the desire for China to overtake the level of research and involvement of developed countries active in Antarctica,<sup>7</sup> it seemed a far-off goal. In 2005, China's leading polar scientist first mentioned in public the aspiration for China to become a "polar great power" (*jidi qiangguo*).<sup>8</sup> In 2013, a senior Chinese polar official stated that China was beginning the transition to achieving this status.<sup>9</sup> In 2013, senior Chinese polar officials publicly stated for the first time that China's goal of becoming a polar great power was a key component of Beijing's maritime strategy.<sup>10</sup>

Then, in a speech given in Hobart, Australia, in November 2014, Chinese Communist Party (CCP) general secretary Xi Jinping used the term "polar great power" for the first time. Xi stated that due to "profound changes in the international system" and China's unprecedented level of economic development over the past twenty years, China soon would be "joining the ranks of the polar great powers." Xi told his audience, "Polar affairs have a unique role in our marine development strategy, and the process of becoming a polar power is an important component of China's process to become maritime great power."<sup>11</sup> Having China's top leader refer to his country as a future polar great power was a signal to the entire Chinese political system that polar affairs had moved up the policy agenda. Following this speech, the polar regions were officially included in Xi's bold new foreign policy direction, China's "New Silk Road" (*yidai yilu*). In China's bureaucratic system, the polar regions are categorized within maritime affairs. The goal of becoming a polar great power is now a key component of Beijing's emerging maritime strategy.<sup>12</sup> China's emerging status as a polar power is directly linked to its

<sup>7</sup> Wang Qian, "Twenty Years of Antarctic Research," *China Daily*, November 3, 2004, accessed October 18, 2009, <http://china.org.cn/English/2004/Nov/111106.htm> (link discontinued). Links, with access dates, are given here and in subsequent notes for sources that are no longer available online.

<sup>8</sup> "Ben bao jizhe zhuanfang Zhongguo jidi yanjiu zhongxin fuzhuren Yang Huigen boshi wo guo yunliang quanqiu kaocha" [A discussion with PRIC deputy director Yang Huigen about China's polar expeditions], *Dalian wanbao*, December 5, 2005, <http://news.sina.com.cn/s/2005-12-05/00437617786s.shtml>.

<sup>9</sup> "Chen Lianzeng fu juzhang chuxi Zhongguo jidi kaocha gongzuo zixun weiyuanhui di 13 ci huiyi."

<sup>10</sup> "2013 Zhongguo jidi kexue xueshuhui zhaokai" [2013 polar conference at the Chinese Academy of Science begins], Polar Research Institute of China (PRIC), September 26–29, 2013, accessed November 19, 2013, <http://www.pric.gov.cn/detail/News.aspx?id=1440d741-0486-4ab1-a6db-60e717df893e> (link discontinued).

<sup>11</sup> "Er lun shenru xuexi guanche Xi Jinping zhuxi zhongyao jianghua jingshen" [Study and implement the important speech of Chairman Xi Jinping], *Zhongguo haiyang ribao*, November 20, 2014, <http://www.oceanol.com/redian/shipping/2014-11-25/38013.html>.

<sup>12</sup> "2013 Zhongguo jidi kexue xueshu nianhui zhaokai."

desire to seek a greater global role.<sup>13</sup> China's thinking on the polar regions and global oceans demonstrates a level of ambition and forward planning that few, if any, modern industrial states can achieve. If China succeeds in its goals in the polar regions, the high seas, outer space, and cyberspace, then its quest for international status and power will be assured.

It has been difficult for China and international relations experts to grapple with China's polar policies because the field is divided into different silos of specialists who do not have the requisite skill sets to connect the proverbial dots. Paradoxically, China's dramatic polar rise has therefore flown under the radar – until this book. Political and strategic research on the polar regions has tended to be the preserve of a select number of Arctic-focused, and a very small group of Antarctic-focused, social scientists. Although scientists frequently integrate their research on both poles, very few social scientists talk about “polar studies” or discuss the two poles as a region. Meanwhile, the world's most powerful polar powers, the United States and Russia, rarely use the term “polar great power” to describe their status and interests in the polar regions. Yet China is now widely using this term to sum up its aspirations and symbolize the significance of the polar regions to China's national interests.

China's focus on becoming a polar great power represents a fundamental reorientation – a completely new way of looking at the world. Nothing symbolizes this shift more than China's vertical world map, the cover image for this book. This map, devised by Hao Xiaoguang, a brilliant geophysicist from Wuhan, has been used since 2004 by China's State Oceanic Administration to chart voyages to the Arctic and Antarctic and, since 2006, by the People's Liberation Army (PLA) as an official military map. The map was finally released to the public in 2014.<sup>14</sup> Hao also designed China's new vertical national boundaries map, which for the first time included China's controversial nine-dash-line claims in the South China Sea as part of Chinese territory, provoking a media storm of commentary.<sup>15</sup> Yet the international media missed the more far-reaching significance of China's vertical world map, which was released at exactly the same time. Unlike the traditional world map, which has the Arctic and Antarctic at the edges of the world, China's new

<sup>13</sup> Guo Peiqing, *Beiji hangdao de guoji wenti yanjiu* [Research on the matter of the internationalizing of the Arctic sea route] (Beijing: Haiyang chubanshe, 2009), 320.

<sup>14</sup> “Jiemi shu ban ditu: Mibu jiefangjun dui Mei junshi buju zhiming shiwu” [Unmasking of secret vertical map: The PLA offsets the fatal mistake of the United States' military layout], *Qianzhan*, October 21, 2014, <http://xw.qianzhan.com/military/detail/275/141021-3937a19b.html>.

<sup>15</sup> “China's New Weapon in the South China Sea Is... a Vertical Map,” China Real Time Report, *Wall Street Journal*, June 25, 2014, <http://blogs.wsj.com/chinarealtime/2014/06/25/china-new-weapon-in-the-battle-for-the-south-china-sea-is-a-vertical-map/>.

vertical world map is dominated by a peacock-shaped Antarctic Continent and depicts the Arctic as a central ocean ringed by North America and Europe. The PLA has been using this vertical world map to help determine the location of satellites and satellite receiving stations for BeiDou-2, China's strategic weapons navigating system,<sup>16</sup> in order to chart China's new direction in the most literal sense. The map is the visual representation of China's new global *Realpolitik*: pragmatic, assertive of China's national interests, cooperative where it is possible to be cooperative, and yet ready to face up to conflict.

As the founder of modern geopolitics, H. J. Mackinder, pointed out early in the twentieth century, each era has its own geographical perspective.<sup>17</sup> China's vertical map completely resets the world map to highlight the significance of the world oceans and the polar regions, creating a new geographical perspective more in keeping with modern realities. It exposes what Mackinder called the "World-Island" – the joint continent of Europe, Asia, and Africa.<sup>18</sup> Thus, China's new global vision confronts the observer with how the various land masses, big continents and smaller islands, connect in one interlinked, inseparable world ringed by vast oceans. The vertical map places the rooster-shaped Chinese territory at the center of the new world order: visually dominating the Asia-Pacific, sidelining the United States, and dwarfing Europe. For centuries, geopolitical contention has centered on Europe and focused on land-based territories. And since the breakup of the Soviet Union in 1991, the United States has been the unchallenged global hegemon. But a new geopolitics is taking shape that reflects the unprecedented level of global interconnectedness of trade, communication, and people movement; the pressing concerns of the future, including food supplies and energy security; the consequences of climate change on geopolitics; and, ultimately, the rise of a new global power. China aims to be at the heart of this new order.

China's declaration that it is poised to enter the ranks of the "polar great powers" reveals both a deep need for status change in the international system and an awareness of a gap in global geopolitics that China alone has the unique ability to fill. In setting its sights on the polar regions now, China is looking to the mid- to long term and planning for its future economic, political, and strategic needs.<sup>19</sup> The Chinese government's stated core

<sup>16</sup> Wang Pu, "Shu qilai de ditu, gaibianle ni de 'shijieguan' ma?" [Put up a map and change your "world view"?], *Zhidao ribao*, July 13, 2014, <http://zhidao.baidu.com/daily/view?id=522>.

<sup>17</sup> H. J. Mackinder, *Democratic Ideals and Reality: A Study in the Politics of Reconstruction* (London: Constable and Company, 1919), 39.

<sup>18</sup> *Ibid.*, 81.

<sup>19</sup> Guojia haiyangju haiyang fazhan zhanlue yanjiusuo ketizu, ed., *Zhongguo haiyang fazhan baogao* [Report on China's maritime development] (Beijing: Haiyang chubanshe, 2012), 367.

national interests in the current era – to maintain China’s social system and state security, to preserve state sovereignty and territorial integrity, and to ensure the continued stable development of the economy and society<sup>20</sup> – all require access and engagement in the polar regions.<sup>21</sup> China has global interests and is well on the way to becoming a global great power. To succeed in this evolution, it must be dominant in the polar regions.

China, like other rising powers before it, seeks to improve its national security, and in doing so it inevitably will challenge the existing order. The polar regions are key sites for these new geopolitics. As Xi Jinping pointed out in his Hobart speech, the Arctic and Antarctic are ripe with economic, political, and military-strategic potential.<sup>22</sup> A new “Great Game” is well underway at both the Arctic and Antarctic, as various states compete for access and opportunities there.

Great powers are states that exhibit “global structural power,” or the ability to shape governance frameworks in the economic, military, and political-diplomatic sectors.<sup>23</sup> So how should we define *polar* great powers? In the polar regions, the measures – and means – of power are somewhat different. Along with more traditional forms of power and influence, in the Arctic and Antarctic a state’s investment in polar-related science is a fundamental indicator of power and intentions. Thus, to be considered a polar great power, a state must have high levels of polar scientific capacity and scientific research funding; a significant level of presence in the polar regions; and significant economic, military, political, and diplomatic capacity there; as well as a high level of international engagement in polar governance. This last factor is particularly important because, in the polar regions of the world – more perhaps than anywhere else – “structural power” comes from cooperation and participation in existing governance structures.

Going it alone in the polar regions is a strategy that only a regional hegemon, such as Russia in the Arctic, might consider taking. States that are able to dominate militarily at the two poles are truly powerful, controlling key choke points into strategic regions. Currently, only the United States, with its strong military presence in both the Arctic and the Antarctic, has this capability. Yet massive pressures on the US federal budget since the 2008 global financial

<sup>20</sup> “Shoulun Zhong Mei jingji duihua” [First round of US-China relations], Chinanews.com, July 29, 2009, <http://www.chinanews.com/gn/news/2009/07-29/1794984.shtml>.

<sup>21</sup> *Zhongguo haiyang fazhan baogao*, 362 and 374.

<sup>22</sup> “Er lun shenru xuexi guanche Xi Jinping zhuxi zhongyao jianghua jingshen.”

<sup>23</sup> Liselotte Odgaard, *China and Coexistence: Beijing’s National Security Strategy for the Twenty-First Century* (Washington, DC: Woodrow Wilson Center Press; Baltimore: Johns Hopkins University Press, 2012), 45.

crisis, which has capped spending on polar-related infrastructure and science, means that US polar capacity is steadily slipping backwards.

China's modern strategic thought has long been greatly influenced by the ideas of late-nineteenth-century US naval strategist Alfred T. Mahan,<sup>24</sup> who advocated that rising powers should expand their navy, aim for global markets, and either establish colonies or else garner privileged access to resources.<sup>25</sup> China is following this advice to the letter. By China's definition, the polar regions, the deep seabed, and outer space are all *res nullius* (literally, "no one's property"), and hence are ripe for "colonization." In 2015, the Chinese government announced that the polar regions, the deep seabed, and outer space are China's "new strategic frontiers" (*zhanlüe xin jiangyu*),<sup>26</sup> strategically important areas from which China will draw the resources needed to become a global power.<sup>27</sup> Although this vision has only recently been made public by China's senior leader Xi Jinping, the thinking behind it has been developing for many years.

China does not yet have a formal document outlining the government's strategy for the polar regions, let alone formal individual strategies for the Arctic and Antarctic, but it does have a clear agenda and set of priorities and can be expected to make a formal public statement on some – but not all – aspects of its Arctic strategy during the 13th Five-Year Plan (2016–2020). China's polar policymakers are coy on the topic of China's polar strategy, and in news stories aimed at foreign audiences they have publicly denied that China has one.<sup>28</sup> Yet in meetings for polar officials reported in specialist websites, and in classified materials, the topic of China's current polar strategy (*jidi zhanlüe* / *jidi guihua*) and policies (*jidi zhengce*) are freely discussed, as are plans to formulate a more long-term, overarching, and possibly public strategy. China's polar strategic priorities are focused on security (traditional and nontraditional), resources, and strategic science. Without a formal polar

<sup>24</sup> Liu Huaqing, *Liu Huaqing huiyilu* [The memoirs of Liu Huaqing] (Beijing: Jiefang jun chubanshe, 2005), 432.

<sup>25</sup> Alfred T. Mahan, *The Influence of Sea Power upon History, 1660–1783* (Boston: Little, Brown and Co, 1890).

<sup>26</sup> "Guojia anquan fa cao'an ni zengjia taikong deng xinxing lingyu de anquan weihu renwu" [The draft national security law will increase security in space and other new areas], Xinhua, June 24, 2015, <http://www.chinanews.com/gn/2015/06-24/7363693.shtml>.

<sup>27</sup> "Fangwen Zhongguo Nanji kaocha shouxi kexuejia: wei shenme qu Nanji" [Interview with China's chief polar scientist: Why go to Antarctica], Sina.com, December 5, 2005, <http://tech.sina.com.cn/d/2005-12-05/1202782841.shtml>.

<sup>28</sup> "Jidi baozang zhi zheng: Duoshao shiyou jutou zai 'zhan dipan' guafen beiji" [Polar treasure dispute: How many oil giants will carve up the Arctic basin], Xinhua, February 21, 2012, [http://news.xinhuanet.com/finance/2012-02/21/c\\_122731902\\_5.htm](http://news.xinhuanet.com/finance/2012-02/21/c_122731902_5.htm).

security strategy document in place, whether public or classified, China is currently acting out an undeclared foreign policy in the polar regions, and its actions provide a useful indicator of the Chinese attitude toward global governance issues more widely. In contrast to China's opacity on its polar interests, both Russia and the United States have made formal public statements on their Arctic and Antarctic priorities and agenda in recent years, as has Norway, the only state with territorial claims at both poles, and prominent Antarctic states such as Australia, the United Kingdom, and New Zealand.

China has a long-term agenda in the polar regions. Many of the opportunities in the Arctic and Antarctic that attract Chinese interest will not be available for several decades, and they will take considerable planning, coordination, and international diplomacy to maximize. The Chinese government is thus employing strategic ambiguity to defend its interests to the wider world. Hence, as two of China's leading polar scholars point out, China works hard to "create an international image of China as a peaceful and cooperative state" in order to further China's goals in the polar regions.<sup>29</sup> If international public opinion were to turn against China's plans in the polar regions, it would harm the government's abilities to achieve these goals. Thus, persuasion, framing, information management, and strategic communication play an extremely important role in China's current polar strategy, and they are used to shape both domestic and global perceptions of China's polar agenda.

#### GREAT POWER POLITICS AT THE POLES

In the Cold War era, the United States and the Soviet Union dominated both the Arctic and the Antarctic. For most of the post-Cold War era, the United States has been the dominant power on the Antarctic ice, while it has treated the Arctic as somewhat of a geostrategic backwater. However, as US global power has declined, especially since 2008, a host of emergent states are beginning to take advantage of the power vacuum, and China is at the head of the pack. The Obama administration tried to rebalance to the Asia-Pacific, but became preoccupied in the Middle East and Europe. Now the Trump administration is alienating allies, accentuating perceptions of the decline of US power. The Arctic is important to the United States, as an Arctic littoral state, and yet it pays little attention to its own northern regions.<sup>30</sup> Relative to other foreign policy commitments, Antarctic

<sup>29</sup> Guo Peiqing and Li Zhenfu, *Beiji hangdao de guoji wenti yanjiu* [Research on the international issues regarding the Arctic shipping routes] (Beijing: Haiyang chubanshe, 2009), 317.

<sup>30</sup> Jim Paulin, "A Conflict between Alaska and Feds over Arctic Policy?" *Alaska Dispatch News*, September 8, 2013, <http://www.alaskadispatch.com/article/20130908/conflict-between-alaska-and-feds-over-arctic-policy>.



affairs are even less of a priority for Washington. US capacities there are in a slow decline, as symbolized by the US administration's inability to finance new icebreakers to service its bases in Antarctica and protect its interests in the Arctic.<sup>31</sup>

Russia has more at stake in the Arctic than most countries do. It controls one-quarter of the Arctic coastline and 40 percent of the land area, and it is home to three-quarters of the Arctic's population. Russia has been active in the Arctic region since the 1600s and receives 20 percent of its gross domestic product from Arctic economic activities such as natural resource extraction. Yet Moscow too has neglected its Arctic interests for many years. It is only now reasserting itself militarily in the region and looking for partners to open up its Arctic regions for development.<sup>32</sup> In the Antarctic, since the fall of the Soviet Union, Russia has become a weak but sometimes belligerent player, beset by aging infrastructure and limited budgets.

The Arctic is a vast sea surrounded by continents, while Antarctica is a continent surrounded by sea. Although the two poles have some physical and climactic similarities, from the point of view of governance they are vastly different. Arctic governance is in somewhat of a state of flux, whereas Antarctic governance mechanisms are considerably more settled and ordered. However, tensions are rising in both regions, and China's emergence as a significant polar player is a contributing factor to these tensions. China's economic power and increasing interest in garnering global influence is perceived by the more established Arctic and Antarctic states as a potential threat. Yet some also recognize China's polar interests as an opportunity: as a chance to adjust existing balances of power, as a new source of polar scientific funding and capacity, as a source of new consumer markets, and as a deep-pocketed investor.

The Arctic has global significance as a region for a number of factors. In 2009, the US Geological Survey's Circum-Arctic Resource Appraisal study found that 22 percent of the total undiscovered oil and natural gas left on the planet is located above the Arctic Circle.<sup>33</sup> The Arctic region is also rich in uranium, rare earth metals, gold, diamonds, zinc, nickel, coal, graphite, palladium, and iron ore. All of these mineral resources are located on the

<sup>31</sup> Rather than expanding, from 2012 the US Coast Guard – which provides the US polar icebreakers – has had its funds cut significantly.

<sup>32</sup> Marlene Laruelle, "Resources, State Reassertion and International Recognition: Locating the Drivers of Russia's Arctic Policy," *The Polar Journal* 4, no. 2 (2014): 253–70.

<sup>33</sup> USGS Energy Resources Program, "Regional Studies – Circum-Arctic Resource Appraisal," US Geological Survey, November 12, 2005, <http://energy.usgs.gov/RegionalStudies/Arctic.aspx>.

territory of the Arctic states. The Arctic has rich fisheries and forestry, and is an important site for scientific research of global significance. Major climate change was first observed in the Arctic; the impact of climate change is much stronger there than in other parts of the world, and it has a global impact. The Arctic region is also an important site for strategic space-related research in such areas as the earth's magnetic field and auroras.

The Arctic has also attracted intense international interest as a new shipping route. With the rapid onset of melting Arctic ice during the Northern Hemisphere summer months, many ocean-going nations are now exploring the possibility of the North and Northwest passages through Arctic seas as an alternative route between the Asia-Pacific and into northern Europe and the Americas. Though the Arctic route is hazardous and only seasonal, shipping companies are attracted to it because it can shave off a third of the time it takes to get between markets in Asia and Europe and the Americas, and it avoids chokepoints such as the Malacca Strait and conflict zones such as the Somali coast. The Arctic sea route will also be useful for the shipping of raw materials from the Arctic to industrial sectors in China, South Korea, and Japan.

The Arctic was a key site for US-Soviet military confrontation in the Cold War era, with both sides hosting significant military bases and strategic missile launch sites in the Arctic region. Virtually all of these sites were closed down or downsized in the 1990s. However, as the Arctic ice melts and tensions grow over access to Arctic resources and sea routes, many of the Arctic littoral states have been boosting their Arctic military presence. In 2013, the US government announced a 50 percent increase in the number of missiles stationed at its ground-based interceptor missile defense base in Fort Greely, Alaska. The missiles at Fort Greely are targeted at “rogue states” and the “theatre-missile threat”;<sup>34</sup> in other words, at North Korea, Russia, and China. In 2014, Russia announced that it planned to “militarize the Arctic,” that it was reopening a Cold War-era Arctic military base, and that its navy had begun patrolling the Northern Sea Route along Russia's Arctic coast from the Kara Sea to the Pacific Ocean.<sup>35</sup> As a consequence of all these developments, Arctic geopolitics are experiencing a sea change. There is an increasingly complex Arctic security environment, while Arctic states are divided on a number of issues.

<sup>34</sup> Mark Thompson, “Possible North Korean Threat Triggers Beefed Up Missile Shield,” *Time*, March 15, 2013, <http://ti.me/ZbUoBO>.

<sup>35</sup> “Russia to Form Arctic Military Command by 2017,” *Moscow Times*, October 1, 2014, <http://www.themoscowtimes.com/business/article/russia-to-form-arctic-military-command-by-2017/508199.html>.