thinese model other ensure mariding a etnam, fact is lis bad

APPENDIX II

China's Maritime Militia

An Important Force Multiplier
Andrew S. Erickson and Conor M. Kennedy

The People's Armed Forces Maritime Militia (PAFMM) is a state-organized, -developed, and -controlled force operating under a direct military chain of command to conduct Chinese state-sponsored activities. The PAFMM is locally organized and resourced but answers to the very top of China's military bureaucracy: the commander in chief, Xi Jinping. While the PAFMM has been part of China's militia system for decades, it is receiving greater emphasis today, because of its value in furthering China's near-seas "rights and interests."

Traditionally, the PAFMM has been a military force raised from civilian marine industry workers (e.g., fishermen). Personnel keep their "day jobs" but are organized and trained in exchange for benefits and can be called up as needed. Recently, the People's Liberation Army (PLA—in this context, the military generally) has been adding a more professionalized, militarized vanguard to the PAFMM, recruiting former servicemen (by offering them high salaries) and launching formidable purpose-built vessels. This vanguard has no apparent interest in fishing.

This chapter focuses on the current organization and employment of Chinese maritime-militia organizations. It first puts this force into historical context by surveying the PAFMM's background and its changing role in China's armed forces. Next, it examines the PAFMM's current contributions toward China's goal of becoming a great maritime power,

in both old and new mission areas. The remaining sections will address specific maritime-militia modes of command and control, intelligence gathering, organization and training and will suggest possible scenarios and implications.

Decades-Long History

China's militia system originated before the Chinese Communist Party (CCP) came to power, but the system of recruiting numerous state-supported maritime militias from coastal populations was not fully implemented until the communists began to exercise greater control of the coastline in the 1950s. This segment of China's population had been relatively isolated from the turmoil of the Civil War; these regions had been under either Japanese or Republic of China (ROC) control in the decades before CCP rule was established. The CCP targeted the fishing communities by creating fishing collectives and work units, enacting strict organizational and social controls, and conducting political education. Factors motivating and shaping this transformation included:

- The PLA's early use of civilian vessels after Chiang Kai-shek's Nationalist Party decamped to Taiwan.
- The fact that fishermen constituted the bulk of China's experienced mariners.
- The requirement during the 1950s and 1960s to defend against Nationalist incursions along the coast.
- Increasingly frequent confrontations with other states' fishing and naval vessels as China's fishermen gradually began to fish farther offshore.
- The transformation of many shore-based coastal-defense militias to the at-sea maritime militia.

The PAFMM has played significant roles in manifold military campaigns and coercive incidents over the years:

- In the 1950s, support of the PLA's island seizure campaigns off the mainland coast
- In the 1960s, securing of China's coast against Nationalist infiltrations

• I t

• I

• I

S

• I

• I

• I

• I

• I

• I

Th merely and gu Vietna 2014 | CNO

forces PAFN arreste

Scarbo presen PLA o

operat

The 1

forces.

address elligence cenarios

ist Party
is stateiot fully
entrol of
had been
ions had
of in the
the fishenacting
I educaed:

ek's

iinst

ng ish

ry

s off

- In 1974, seizure of the western portion of the Paracel Islands in the South China Sea from South Vietnam
- In 1976, harassment of "foreign" naval ships east of the Zhoushan Archipelago (south of Shanghai)
- In 1978, presence mission in the territorial sea of the Senkaku Islands
- In 1995, Mischief Reef encounter with the Philippines stemming from the occupation and development of that reef
- In 2009, harassment of USNS Impeccable
- In 2012, Scarborough Shoal stand-off with the Philippines
- In 2014, blockade of Philippine-occupied Second Thomas Shoal
- In 2014, repulse of Vietnamese vessels from disputed waters surrounding the China National Offshore Oil Corporation's (CNOOC's) oil rig HYSY 981
- · In 2014, harassment of USNS Howard O. Lorenzen
- In 2016, large surge of fishing craft near the Senkaku Islands
- In 2017, envelopment of Philippine-claimed Sandy Cay in the northern Spratly Islands.²

The important point to note is that many of these actions were not merely reactive. In some cases PAFMM participation was preplanned and guided by PLA organs: the 1974 seizure of the western Paracels from Vietnam, reconnaissance and sovereignty patrols during the February 2014 blockade of Second Thomas Shoal, and the 2014 defense of the CNOOC oil rig against Vietnamese vessels.³

The 2012 Scarborough Shoal stand-off is an example of how militia forces already at sea can rally to an emerging confrontation It was the PAFMM that first arrived to aid Chinese fishermen in danger of being arrested by Philippine officials in an incident that sparked the April 2012 Scarborough Shoal episode. Reports by members of the PAFMM unit present at Scarborough Shoal and their actions there suggest that the PLA exercised command and control over PAFMM forces in subsequent operations to seize the feature from the Philippines.⁴

The PAFMM: A Decentralized, Local Institution

The PAFMM is an important component of China's local armed forces. Its part-time units are part of an armed mass organization of

mobilizable personnel who retain their normal economic responsibilities in daily civilian life—a reserve force of immense scale. The militia is organized at the grassroots level: its units are formed by towns, villages, urban subdistricts, and enterprises. It supports China's armed forces in a variety of ways and is seeing the list expand as the PLA continues to modernize. Militia units differ widely from one location to another, as their respective compositions stem from local conditions (yindi zhiyi). A good example is the establishment of emergency naval ship-repair units in areas with strong shipbuilding industries.

The PAFMM is found, logically, in port areas with large fishing, shipbuilding, or shipping industries where experienced mariners or craftsmen provide a ready pool of recruits. Citizens can join land-based primary militia organizations between the ages of eighteen and thirty-five. The PAFMM's age requirements are flexible, extending to forty-five for those with special skills, even older in some localities (e.g., Yancheng City of eastern China's Jiangsu Province extended the maximum age for its maritime militiamen to fifty-five). Veterans of the armed forces are prized. For example, Zhejiang Province has established as a recruiting target a 65 percent ratio of veterans to nonveterans for its maritime-militia units.

Local military and civilian leaders appear to have a degree of autonomy in how they build their militias. Most PLA publications state up front that militia building should be suited to the local missions and localities' resources for mobilization. In other words, forces are not built in cookie-cutter fashion imposed by national-level leadership. Rather, they are organized with two things in mind: the local populace and its industrial or institutional capacity and the specific requirements they are intended to satisfy.

Unlike the active-duty forces of the People's Republic of China (PRC), its reserves, among them the militia, are not recruited from a variety of locations. It is the civilian government's job to incorporate militia building into its maritime economic development and to take the lead in militia construction. Government marine agencies such as the China Coast Guard (CCG) are tasked with assisting in organizing PAFMM units and in their training. Local propaganda, finance, and civil affairs departments each become involved, in their respective areas. The navy, in cooperation with other military agencies, provides special

techni Finally (PAFI of the

Un

involve on the into ta compa ion-siz howev tions. I distant vessels for two tially,

• F
a
• N

tional

Milita

force c

fo a • N

р • Е

The their of reconstruction fish. Of operations and the reconstruction of the reconstruc

bilities litia is llages, rces in nues to her, as zhiyi).

-repair

e fishariners landen and ending calities ed the of the blished for its

autonrate up as and at built tather, and its arey are

China from a porate o take uch as nizing e, and areas.

technical training and conducts joint exercises with the PAFMM.⁷ Finally, county- and grassroots-level People's Armed Forces Departments (PAFDs), directly involved in the normal management and organization of the units, are central to PAFMM organization.

Unit composition is determined by the capabilities of the vessels involved. In principle, PAFMM personnel numbers are determined based on the vessels (*yichuan dingbing*). Vessels and their crews are recruited into tactical-level units—"detachments" (*fendui*)—typically composed of companies, platoons, and squads. Some provinces have developed battalion-sized units. Most counties establish at least one company-sized unit; however, their size and capabilities vary greatly depending on local conditions. Some units comprise oceangoing fishing vessels capable of reaching distant waters, such as the Spratlys, while support units may not possess vessels at all. The PLA's political work is not overlooked; the guideline is for two or more party members on each "mission fishing vessel." Essentially, wherever the maritime militia goes, the party is on board.

The geographical distribution of units is largely driven by the operational needs of a given region. For example, in 2015, the Guangdong Military Region (MR) Mobilization Department proposed a PAFMM force organization based on geographically oriented missions:

- Reconnaissance forces are deployed to distant islands, reefs, and areas around important waterways.
- Maritime militia assisting Maritime Law Enforcement (MLE) forces are primarily deployed around disputed islands, reefs, and sea areas.
- Maritime-militia support forces are deployed to naval stations, ports, piers, and predetermined operational sea areas.
- Emergency response forces make mobile deployments to sea areas around "traditional fishing grounds."

That department opined that units could be organized according to their operational destinations: forces assigned to law enforcement and reconnaissance missions would be organized where its vessels normally fish. Conversely, PAFMM forces responsible for security or loading operations would be organized in the coastal areas in which they are needed. Whether followed exactly or not, this approach suggests how

PLA leaders reconcile the need to deploy these forces with the economic realities of individual militia organizations and their personnel. The PLA is continually experimenting with organizational arrangements to serve the needs of the military and state without imposing unrealistic expectations on a given PAFMM unit. This pragmatic policy means there is no universal model for maritime militia organization.¹⁰

On the national scale, however, Beijing is creating a leaner militia force generally (not only maritime), reducing the overall number of militiamen and strengthening the training and capabilities of more elite units. Obsolete infantry units have disbanded in favor of technically sophisticated militia that can support modern PLA operations. For the PAFMM this has resulted in the building of "elite" maritime militia units that would be used year-round.¹¹

Most descriptions of PAFMM vessel requirements focus on the fishing industry. They prioritize large-tonnage, steel-hulled ships that are fast (by fishing-vessel standards) and capable of withstanding collisions. In many ways, since the PAFMM conducts most rights-protection missions without arms, the vessel itself is the weapon. PAFMM forces also incorporate the logistical benefits of the mother ships that routinely support fishing fleets. Hainan's Sanya Fugang Fisheries Company used a three-thousand-ton supply ship to support its rights-protection operations in the Spratlys from 2012 to 2014, significantly extending the range and endurance of the PAFMM vessels involved.

The PAFMM in the South China Sea

In 2015 Beijing created a special PAFMM unit for the South China Sea, headquartered in Sansha City on Woody Island, the largest of the Paracel Islands. This special-purpose unit appears to be a full-time, militarized organization. It provides the crews for eighty-four purpose-built vessels equipped with high-pressure water cannons and with rugged, reinforced hulls able to withstand physical shouldering of third-party fishing boats and coast guard vessels. Lacking fishing responsibilities, its personnel train for peacetime and wartime contingencies, sometimes with light arms, and deploy regularly to disputed South China Sea features, even during fishing moratoriums.¹⁴ This new full-time Sansha City force has been involved in a recent PAFMM "operation" to keep Philippine and other fishermen away from Sandy Cay, an above-water feature very

close block Sa

"adming reheade to "al was f prese South lished a PA Sansh first secon sough

array

a cap

medi

stand

does

territ
Sa
ing c
physi
cann
are 6
to 75
Parol

Som

room

an in CCC and effor Woo

nomic . The nts to alistic neans

force amen
Obsocated
I this
ild be

fishat are sions. misorces inely used peraange

Sea, racel rized essels orced boats onnel light even force pine very

close to Philippine-occupied Thitu Island. It does this by maintaining a blockading force of at least two PAFMM vessels.¹⁵

Sansha City, being the municipality that Beijing charges with "administering" the vast majority of the South China Sea, plays a leading role in PAFMM procedural innovation. Starting in 2013, its higher headquarters called for Sansha's maritime militiamen to be deployed to "all areas within the nine-dashed line." In 2015, the municipality was further directed to ensure that maritime militia "achieve[s] regular presence and regular demonstration of rights" in Chinese waters in the South China Sea.¹⁷ To this end, the PLA garrison in Sansha City established the state-owned Sansha City Fisheries Development Company as a PAFMM organization dedicated to maritime rights operations. The Sansha City Fisheries Development Company militia unit was set up first and foremost as a professional paramilitary force, with fishing a secondary mission at best. Military veterans were and continue to be sought for all positions. These militiamen receive hefty salaries atop an array of generous benefits: a crewman can earn over \$13,000 annually, a captain over \$25,000; all members receive insurance, retirement, and medical benefits.¹⁸ These are princely sums and perquisites by Chinese standards and go far in a coastal fishing village. The money apparently does not depend on meeting actual fishing responsibilities; "trawling for territorial claims" would seem to be what these payments are for.

Sansha maritime militia members have been photographed loading crates labeled "light weapons" onto one of their deployed (they are physically homeported on Hainan) large vessels—the ones with water cannons and sturdy hulls. ¹⁹ The largest Sansha maritime militia vessels are 60 meters long and 9 meters in beam, and they likely displace 600 to 750 tons. They are a good deal larger than the 320-ton, 44-meter *Parola*-class patrol vessels Japan is constructing for the Philippines. ²⁰ Some of these new militia ships reportedly have a "weapons equipment room" and "ammunition stores" on board. ²¹

The Sansha militia boats, which are painted blue, and are collectively an integral part of the "blue-hull, white-hull, grey-hull" (PAFMM, CCG, PLA Navy), three-tiered defense of China's maritime rights and interests in the South China Sea. To coordinate these multiagency efforts, a six-million-dollar command center has been established on Woody Island.²² The Sansha garrison operates on at least two Paracel

Islands "informatized" outposts that monitor proximate seas and has begun construction on three other Paracel features. PLA leaders have indicated that these initial outposts will be replicated in the Spratlys and have commenced construction on three features there. Already, the Sansha garrison has established a People's Armed Forces Department (PAFD) on Fiery Cross Reef and a PAFMM element on Mischief Reef, the beginnings of a growing and full-time rotational PAFMM presence in the Spratlys.²³

The Sansha fleet maintains a continual rotational presence vis-à-vis disputed features in the South China Sea. Sansha's vessels are divided into six companies, stationed at three dedicated and closed-off bases in the Hainan Island harbors of Baimajing, Yazhou, and Qinglan. (There is not enough room on Woody Island, and the locally recruited crews have no desire to be stuck on underdeveloped Woody, or the Spratlys at all, for that matter.) The authors' review of publicly available Automatic Identification System data confirms that a systematic rotation is in effect, apparently a straightforward one-in-three scheme: two of the six companies deployed at any given time, four in port or undergoing maintenance.

Contributions to China's Maritime Power

PLA reforms introduced by Xi Jinping in 2015 made significant changes across all of China's armed forces, including modernization of China's reserve forces, particularly the PAFMM. In the 13th Five Year Plan released in March 2016 the maritime militia was made one of the priorities in optimizing the overall militia system. ²⁴ PAFMM units in China's coastal provinces have since grown visibly and increased in their operational capabilities.

The fishing industry and the maritime militia are valued by Beijing as useful contributors to the consolidation of China's maritime claims, particularly in the South China Sea. Xi Jinping has personally highlighted the importance of the maritime militia. In 2013, he visited the Tanmen fishing harbor in Hainan Province, meeting its maritime militia company and telling them that "Maritime Militia members should not only lead fishing activities, but also collect oceanic information and support the construction of islands and reefs." He praised the militiamen for protecting China's maritime interests in the disputed waters in the South China Sea.²⁵

The militar will sh masses develo role wa vice, w "Three of mai geogra and sta eraged the ne how th ject to as nun regard taking "plausi for su escala

Th Militi and fi mariti and fi from in sur militi PAFN on PI

In "su and P delive media nd has is have pratlys dy, the rtment f Reef, resence

s-à-vis livided ases in (There crews pratlys Autoition is of the

rgoing

hanges China's ir Plan priori-China's opera-

ijing as is, parted the in fishiny and fishing instruc-China's

The PAFMM is also important politically as an organic arm of the military and state in the fishing industry. The hope is that militiamen will shape public opinion, setting an example for both enterprises and the masses as "model" mariners, inspiring them to get involved in maritime development and to travel to disputed sea areas, islands, and reefs.26 This role was highlighted in October 2016 by the PLA Navy's own news service, which described various ways in which the PAFMM can utilize the "Three Warfares" (psychological, public opinion, and legal) in support of maritime rights protection. It cited the militiamen's numerical and geographical advantages and their ability to act as agents of the military and state without inciting suspicion and how such advantages can be leveraged to influence domestic and foreign public opinion. Furthermore, the news service noted, militiamen are granted significant leeway as to how they fulfill their manifold functions, unlike active-duty troops subject to numerous military and international regulations.²⁷ For example, as numerous sources describe, the PAFMM can use deceptive measures regarding uniforms: "putting on camouflage, they qualify as soldiers; taking off the camouflage, they become law-abiding fishermen."28 This "plausible deniability" makes maritime militia forces ideal instruments for supporting Chinese maritime claims while insulating Beijing from escalation at sea or criticism abroad.

These advantages underpin China's operational use of the PAFMM. Militiamen are called to "serve in peacetime, respond to emergencies, and fight during war" (pingshi fuwu, jishi yingji, zhanshi yingzhan). The maritime militia's dual roles are often referred to as an "ability to fish and fight" (nengyu, nengzhan). They are assigned a variety of missions, from traditional logistics for ground forces to more advanced missions in support of the navy. As discussed, during peacetime the maritime militia focuses on protecting China's maritime rights and interests. The PAFMM missions and roles discussed in the following sections are based on PLA doctrine and are not exhaustive.²⁹

Support the Front

In "support the front" (zhiqian) missions, the PAFMM assists the PLA and PLA Navy. Militiamen augment transport capacity by loading and delivering troops, vehicles, equipment, and materials; they conduct medical rescues and retrieve casualties; provide navigational assistance;

conduct emergency repairs or refits of vessels, docks, and other infrastructure; provide fuel and material replenishment at sea; and conduct various other logistical functions. All along China's coast, militiamen regularly train to support PLA operations.

The PAFMM also trains in minelaying and basic mine clearance. The PLA Navy assists the PAFMM in this area, usually in joint exercises. There appear to be PAFMM mine-warfare detachments that lack the necessary equipment. In some instances, naval reserve craft are integrated with PAFMM vessels to form a "naval reserve minesweeper *dadui*" (battalion). Militiamen train on board PLA Navy minesweepers to be ready to execute that mission on their fishing vessels. The Dalian district clearly outlined its PAFMM's mine-warfare and blockade/sea control missions in a catalogue of military actions to ensure maritime border security during a foreign invasion or major internal unrest in a neighboring (unnamed) coastal state. Given Dalian's location on the Yellow Sea the reference is obviously to collapse of North Korean central authority; in such a scenario maritime militia units assist the PLA Navy and CCG in various ways, processing refugees and disarming former armed forces. The PLA Navy and CCG in various ways, processing refugees and disarming former armed forces.

Some maritime militia units have a deception mission (often referred to as weizhuang fendui), to use corner reflectors to increase their vessels' radar cross sections and thereby seem to be major ships on enemy sensors. Training events feature PAFMM vessels steaming in formation with mounted corner reflectors, attempting to resemble, on "enemy" radar, naval groups. The Jiaojiang Maritime Militia Deception Detachment conducted such a training event in October 2010; it involved multiple efforts to disrupt enemy surveillance and targeting, including corner reflectors and floated chaff canisters.³³ Another instance, in 2012, involved a naval militia resupply detachment that used smoke screens and corner reflectors against an "enemy" unmanned aerial vehicle (UAV) during a training assignment to rendezvous with a PLA Navy formation.³⁴ To be sure, it is unclear exactly what is achieved by these relatively crude passive deception measures, but the fact that they are practiced at all indicates that the PLA plans to use every possible resource in any campaign to defend China. It seems likely that the PAFMM's members have realized that making one's fishing boat look like a warship on radar is a good way to get shot at during a conflict. How enthusiastic these units are about such a wartime mission is unknown.

(MS instetion has: cal e instathe ture Chirosoph the

Ove tect: in m tant disp inte

I spec civil

sion seek of tl wat civi neso also

"rec mis (wa autl

fraduct men The ises. the ated bat-

eady trict itrol rder bor-Sea rity; CG es.32 rred vesemy tion my" ach-

lved ding 012, eens AV)

maively iced

any bers

adar hese

One maritime militia unit under the Wenzhou Military Subdistrict (MSD) that once trained regularly with corner reflectors now employs instead technology capable of "electromagnetic attenuation and absorption."35 For example, the Ninghai County PAFD in Zhejiang Province has assembled a special-warfare militia detachment of fifty-eight technical experts who conduct electronic warfare using specialized equipment installed on requisitioned civilian vessels. Serving as a "blue force" (i.e., the adversary) for training exercises simulating "blue" electronic signatures, they employ electronic jamming and electronic baiting against Chinese "red forces."36 While this deception unit may not be the most sophisticated "opposition force" to train against, it offers a capability that the PLA Navy almost certainly appreciates.

Maritime Rights Protection

Over the past few years PAFMM responsibilities to conduct "rights protection" (weiquan) have become widely known in Western discourse and in many ways appear to have become the maritime militia's most important mission. This is because of the prominence that China's maritime disputes in the East and South China Seas have gained in Western policy interactions with Beijing, as well as in press and scholarly exchanges.

In 2015, Hainan Military District (MD) leaders outlined the PAFMM's specific missions in rights protection, including "Use of civilians against civilians for regular demonstration of rights" and "Special cases of rights protection by using civilians in cooperation with law enforcement."

In the first instance, the maritime militia will execute presence missions by fishing in disputed (but Chinese-claimed) waters. This mission seeks to normalize a Chinese "civilian" presence and justify the activities of the China Coast Guard to assert administrative control over disputed waters. Militia vessels can also be mobilized to harass or expel foreign civilian vessels found encroaching on fishing rights or disrupting Chinese development of islands and reefs or resource extraction. They can also provide regular escorts for Chinese civilian survey ships.

When operating in direct support of the coast guard, militiamen will "receive orders" from its command to conduct special rights-protection missions. For example, the maritime militia conduct perimeter patrols (waiwei xunluo), enforce sea-area control (haiqu fengkong), alert higher authority to and expel foreign vessels (jingjie quli), confront those ships (duizhi), and push them back, with the coast guard (heli bitui).³⁷ In short, the PAFMM is increasingly assigned a core role within the "Maritime Rights Protection Force System" (weiquan liliang tixi).³⁸

A prime example of the PAFMM's performance in maritime rights protection occurred when the CNOOC placed the drilling platform *HYSY 981* in disputed waters (within Vietnam's EEZ) southwest of Triton Island in the Paracels. The resulting confrontation saw a large-scale mobilization of militiamen from Guangdong, Guangxi, and Hainan Provinces to form a defensive perimeter around the drilling platform when Vietnamese maritime forces attempted to force the oil rig to leave.³⁹ Militiamen worked closely with the CCG to repulse numerous attempts by Vietnamese fishing vessels to penetrate the screen.

Emergency Response

Many units have been formed for emergency response (ying ji)—that is, to handle "tufa shijian," a broad term that includes such fast-erupting contingencies as natural disasters, accidents, public-health incidents, and societal security incidents that develop rapidly, harm the public, and require unconventional responses. In 2007, the National People's Congress passed the "Emergency Response Law of the People's Republic of China," which requires the militia to participate in relief efforts. Maritime-militia emergency response units are tasked with handling sudden incidents at sea, such as rescue and relief. They make good "first responders," as they may already be near the scene—as expressed by the phrase jiudi jiujin, referring to responses made by nearby local forces. All this tends to be a peacetime matter but would also certainly be involved in wartime as well.

One example of recent innovation in maritime-militia emergency response is a "partnership" with privately owned civil-aviation (tourist, advertising, training, and so forth) firms. In January 2016, the Qinhuangdao MSD in Hebei Province established a "maritime militia helicopter rescue detachment" with the resources of a private general-aviation company. The militia detachment has earmarked for its use two helicopters for rescue, patrol, and resupply missions.⁴¹

Intelligence, Surveillance, and Reconnaissance

The gathering and reporting of intelligence at sea has been a core mission of the maritime militia in both peace and war. Historically, China

mari the r durintion fishi

also reco opm som

Chi meri

vent incr expe ocea mor fusio

mar civi

PA]

as t resp and the foll req

bor lead

coo

gra tive aritime

e rights latform of Trire-scale Hainan latform leave.³⁹

tempts

at is, to contind socirequire ongress China," militia at sea, ey may ferring cetime

rgency (tour-6, the militia eneralse two

e mis-China has used the PAFMM extensively in this role. Hiding in plain sight, maritime militia forces supplement the PLA's surveillance coverage of the near seas, by loitering around targets of interest or reporting sightings during their regular operations at sea. The development and introduction of new navigational and communications technology into China's fishing industry has significantly augmented the PAFMM's ability to provide valuable, timely intelligence to the PLA. PLA commanders are also currently developing maritime militia intelligence, surveillance, and reconnaissance (ISR) capabilities in the "far seas"; this important development will be discussed in detail below. While the ISR mission is also sometimes termed a "support the front" role, its overall contribution to Chinese maritime domain awareness and its fundamental importance merit a more thorough examination in a separate section of this chapter.

Militia building and mobilization, collectively, is a civil-military venture that helps bind together civilian and military leaders—which is increasingly important as the proportion of party leaders with military experience decreases. As local leaders of coastal provinces look to the ocean for new areas of development and China's military strategy focuses more on maritime power, Beijing's national strategy of civil-military fusion will necessarily be at the forefront. The mobilization of China's mariner population into the PAFMM is one way of extending this civilian-military fusion out to sea.

Command and Control

PAFMM leadership follows the same dual military-civilian structure as that under which most militia organizations in China operate, with responsibilities for militia building falling on both local military organs and their government/party counterparts (*shuangchong lingdao*). In general, the responsibilities of both civilian and military entities are outlined as follows: "The Party Committee provides guidance, the military submits requirements, the National Defense Mobilization Committee (NDMC) coordinates, the government implements, and industries are the backbone." This arrangement essentially integrates the civilian and military leadership in a division of labor for the common and required goal.

Many local governments along China's coast are constructing integrated coastal defense systems meant to implement better administrative control over nearby waters. Places such as Weihai City in Shandong

Province and China's newest prefecture, Sansha City, are organizing "military-police-civilian joint/integrated defense systems" (*junjingmin lian-fang tixi*), which include maritime militia units. Sansha City's committee has been a focal point for such projects, with "three lines of defense" (militia, coast guard, and navy, in that order). The city has also established a joint defense coordination center, an integrated monitoring command center, and a "Hainan Province Paracels Islands Dynamic Monitoring System."

As described in many Chinese-language sources on the PAFMM, mobilization orders are received from a variety of entities: the theater, sundry provincial and local authorities, or the China Coast Guard. There is significant overlap, because they all share responsibilities for the militia. The main point is that while local governments are required to fund, supply, and support the militia, only the military holds the authority to use it. In practice, this has created problems. Local authorities who have funded the militia have bridled at being told how to use it, especially if the local military commander has decided to employ it on a different task. In short, PAFMM's complex command-and-control structure routinely challenges local active-duty PLA authorities.

What is certainly clear is that militiamen are handed over to the CCG or PLA Navy for temporary use in both rights protection and combat support. The former chief of staff of the Guangdong MD describes the procedure for maritime rights protection as, "Mobilize the maritime militia in accordance with the requirements of the situation and orders given by superiors to go to mission sea areas where they will be transferred over to the command of the rights protection headquarters."

The PLA does pay attention to the quality of the crews of each militia vessel. Promising grassroots-level cadres (zhuanwu ganbu) are recruited directly into PAFMM detachments in order to strengthen fishing-vessel command and control. Second, militiamen with "strong character" receive focused training to enhance the PAFMM's political reliability. Third, individuals with backgrounds as specialized "active-duty boat cadres" (xianyi chuanting ganbu) and signalmen (tongxinbing) are recruited to strengthen fishing-vessel piloting and communication controls. The ambiguous term "boat cadre" connotes experienced people, including fishing-vessel captains, owners, and exceptional crew members. Sources refer to the cadres as "boat bosses/skippers" (chuan laoda, 船老大) or simply "captains" (chuanzhang). Former active-duty personnel are given

priorit unit le group is cond

As dis sions (mission of fish: World moder inform ing fle navigat transm it, Chi domaii militia early-w Xiangs naissar with th networ

The dispatc the Fis capabil and ea eight u vessel p

ML

Beidou

(AIS),

reliable

the PA

rganizing min lianommittee " (militia, ed a joint enter, and

AFMM, theater, Guard. s for the quired to authorities to use it, loy it on l-control

he CCG I combat ribes the naritime id orders be transcs."47

h militia recruited ng-vessel "receive '. Third, cadres" uited to s.48 The ncluding Sources 老大) or re given priority for entrance into the maritime militia, and they likely assume unit leadership roles, becoming cadres. Cadres make up an important group that helps maintain unit discipline and ensure that militia building is conducted at the grassroots level.⁵⁰

C4ISR Network

As discussed above, intelligence, surveillance, and reconnaissance missions constitute one of the PAFMM's earliest and most consistent missions. They date back decades, replicating the use by imperial Japan of fishing boats as picket ships in its eastern maritime approaches during World War II.51 As early as 2007, the PLA Navy recognized the need for a modernized civilian vessel and militia maritime-surveillance network and information-support system that capitalized on the country's vast fishing fleet. It wanted satellite services combining the Beidou positioning, navigation, and timing satellite system and automated shortwave radio transmission, fused so as to create near-real-time data connectivity. With it, China's large fishing fleet could supplement the PLA Navy's maritime domain awareness efforts. That same year, the Yuhuan County maritime militia "battalion" reported completion of a PAFMM surveillance and early-warning network covering the "far seas, near seas, and shoreline." Xiangshan County of Zhejiang Province operates a large PAFMM reconnaissance detachment that follows a pattern laid out by the PLA Navy, with thirty-two "mother ships" acting as nodes for 150 vessels forming a network of surveillance.52

MLE forces already use a number of communications systems—such as Beidou, very-high-frequency radio, the Automatic Identification System (AIS), cellular coverage when available, and satellite phones—to ensure reliable command and control when at sea. The equipment is provided to the PAFMM by MSDs, which purchase and distribute satellite navigation terminals, navigational radar, radios, and other electronic equipment.

The Ministry of Agriculture has constructed fisheries command and dispatch centers and regional command-dispatch platforms. According to the Fisheries Law Enforcement Command Center's director, a blend of capabilities forms an important part of the nation's emergency-response and early-warning system: fourteen shortwave shore stations, seventy-eight ultra-high-frequency shore stations, fifteen provincial fishing-vessel position-monitoring centers, thirty fisheries AIS base stations, and

fifty-nine fishing port video surveillance branches, established nation-wide.⁵³ This is a redundant communications and monitoring network built and made available to allow the PLA to maintain reliable communications with militia fishing vessels when they are under way.

In addition to this traditional communication network, Beidou satellite navigation and the vessel-monitoring systems in many provinces have yielded an all-weather, continuous monitoring capability that MLE agencies can use to manage fishing fleets. Beidou terminals have been widely installed on China's fishing vessels, allowing the agencies to track their positions and exchange two-way transmissions of up to 120 Chinese characters—enough to dispatch orders to fishing boats as far away as the Spratlys. The growth of the Beidou constellation into global coverage will also expand the range of communications support to China's maritime militia.

In some areas, Beidou has become an important supplement to AIS, which uses shore-based stations to receive ship positioning and identification information. When fishing boats are beyond the range of shore AIS stations, Beidou's AIS transceiver automatically turns on (it turns itself off when within range of the shore station, to avoid duplicate tracks). The widespread implementation of Beidou's vessel-monitoring system, which includes a marine fisheries integrated information service, facilitates control of PAFMM vessels at sea. The head of Zhejiang MD's Mobilization Division has written that military organs use these systems for monitoring fishing-vessel safety and rescue, as part of building a PAFMM–Fisheries Law Enforcement–MSD–PLA Navy information–sharing channel.⁵⁴

Supporting this surveillance network are various local reporting mechanisms. PAFMM reporting channels are typically between vessels and departments of the MD system on shore. For example, Rizhao City's Lanshan District has established a real-time reporting mechanism for its militiamen to use when monitoring the sea and air; it connects vessels at sea with the militia command center, the fisheries bureau command center, and the PAFD's war readiness office. 55 PLA writings indicate that maritime militia reports are increasingly integrated into the theater command's larger intelligence infrastructure. 56

For example, the PLA garrison in Zhoushan City, an archipelagic municipality in the East China Sea, has made significant progress in developing its maritime militia ISR network. The garrison has tapped into the ter for lection PLA; and constant overse room. photo militiating and he intellicent intellice

provice The F where coasta vessel ing the mand vessel determent and tasugge range thank

M:

so is traine yuan) the B sent u

ationtwork nuni-

citime

AIS, tificae AIS elf off
. The which s conzation coring heries

orting essels City's for its essels mand dicate neater

elagic ess in apped into the city's marine-data collection effort to set up a networked center for maritime national defense mobilization, utilizing big-data collection at sea. Fisheries data and vessel monitoring systems give this PLA garrison mobilization office the information it needs to command and control its PAFMM forces in real time. Militia reports flow in constantly, according to the mobilization office's chief of staff, who oversees the twenty-four-hour operations of the garrison's watch-duty room. PAFMM reconnaissance units send video and audio feeds and photography directly to the garrison, giving the PLA "eyes" on board militia vessels. The Zhoushan garrison reported that during 2014–15, militiamen generated over three hundred reports involving military sea and air intelligence, of which more than 130 were of value to the MD and higher-level units. ⁵⁷ PAFMM reporting deemed "effective maritime intelligence" is processed and disseminated up the chain of command, reaching the theater-command level. ⁵⁸

Militiamen are often termed "mobile sentries" at sea. PAFMM-provided data reportedly directly supports PLA targeting and tracking. The PLA garrison in Jiangsu's Lianyungang held an exercise in late 2015 wherein PAFMM forces provided targeting support to a PLA Navy coastal artillery unit (anfang budui danpao). In the scenario, a PAFMM vessel reported a "suspicious vessel" forty nautical miles offshore by calling the garrison's watch-duty room directly via satellite phone. The commander then ordered a shore-based signals unit to transfer the PAFMM vessel's video feed to a radar station. After the garrison command had determined the that vessel was an enemy and verified its location, sensor and targeting data were sent to the coastal artillery unit. This account suggests that any foreign warship within China's claimed EEZ and in range of its coastal defenses may be positively identified and targeted, thanks to the maritime militia.

Means to report surveillance information are obviously important, but so is the quality of information reported. Selected militia members are trained as reporting specialists—that is, information personnel (xinxi-yuan)—within units. These personnel collect intelligence at sea and use the Beidou and other reporting systems to ensure that the information is sent up the chain. For instance, Fu'an, a city in Fujian Province opposite Taiwan, held a week-long collective training session for its maritime militia information personnel, covering target identification, essentials

of collection methods, and operation of the maritime militia vessel-management platform and the Beidou notification terminal. Also, the PLA is implementing secure communications with the maritime militia. A unit in China's southern Guangdong Province reportedly uses predesigned "secret code tables," "secure walkie talkies," and "secure radios" to maintain PLA Navy–PAFMM ship-to-ship communications. ⁶⁰ In short, the PAFMM has created a cadre of personnel specifically trained to ensure expertise and professionalism in reconnaissance.

In May 2017 the PRC minister of defense, Chang Wanquan, commended the captain of a militia boat assigned to a reconnaissance detachment based in China's eastern Jiangsu Province. The militiaman was praised for spotting the missile instrumentation ship USNS *Howard O. Lorenzen* (T-AGM 25). He had led other vessels of his unit in surrounding, surveilling, and filming the American ship. The minister "pointed out that the maritime militia is very important and has played a key role in filling in maritime reconnaissance blind spots, as 'small boats' transform into a 'maritime defense with eyes that can see for thousands of miles.' "61 The availability of technology to the militia is increasingly enhancing its ability to provide ISR support to the PLA. In 2018, the PLA garrison in Shanghai conducted a training exercise with a militia UAV reconnaissance detachment. This detachment contains a "maritime unit" for UAV operations at sea. 62

The PLA is also developing the PAFMM's ability to support undersea surveillance. A report of the Xiashan PAFD commander in 2014 included "undersea detection radar" (水下探测雷达) among the equipment to be allocated to maritime militia. 63 This commander forwarded in March 2016 a photo of a PAFMM vessel deploying an unmanned underwater vehicle. The photo's caption read, "Going to sea on vessels to collect intelligence." Another report mentions a maritime militia rescue company in Hebei Province with towed side-scan sonars. 65

One province has outlined specific "doctrine" for PAFMM ISR, laying out the following guidelines for training:

- Dispersal to predetermined sea areas for reconnaissance as "fixed sentries."
- Close-in reconnaissance to verify the identities of suspicious targets as required by the PLA Navy.

mil riur moi mil Pro be r

Fisl

riur

gap

cha from trie income tand "con (yuu and earl

for seas rati per froi

ma:

arti

vesselso, the nilitia. prederadios" s.⁶⁰ In trained

, comletachin was hard O. roundhointed role in nsform iles.'"61 hing its ison in issance opera-

undern 2014 equipvarded nanned ssels to rescue

1 ISR,

- Covert tracking and following of enemy ships and aircraft, to be conducted in concert with other dispersed PAFMM vessels, trading off and coordinating to track target movements.
- Special reconnaissance tasking will involve distributing and installing specialized equipment on militia vessels, such as electronic detection instruments and fish-finding instruments.
- Units listen in on enemy maritime radio signals and detect submarines.⁶⁶

Maritime militia ISR operations fluctuate during the year, since most militia reporting ceases during the PRC-declared annual fishing moratorium that begins in May of each year. In those periods of nominally three months, most fishing vessels are in port, but commanders ensure that militiamen maintain readiness to mobilize.⁶⁷ PLA leaders in Zhejiang Province MD suggest that some additional types of fishing vessels should be recruited to supplement the larger trawler fleet during the moratorium. Fishing vessels not designed for trawling are subject to a shorter moratorium, as established by the Ministry of Agriculture, and could fill ISR gaps left by the stand-down of the large trawler fleets.⁶⁸

China possesses the world's largest distant-water fishing and merchant marine fleets. The PLA sees great potential in ISR contributions from these fleets, as they operate around the globe in numerous countries' exclusive economic zones and in key shipping lanes. PLA writings increasingly describe PAFMM ISR functions in terms of geographic distance from China's shoreline. For example, the Shanghai PLA garrison's "comprehensive training unit" describes PAFMM ISR in "distant waters" (yuanyang) and differentiates between "militia near-seas reconnaissance and early-warning detachments" and "militia far-seas reconnaissance and early-warning detachments." Additional PLA writings describe the need for more PAFMM units that can move from the near seas into the far seas. Some state outright that vessels in oceanic shipping, marine exploration, and even overseas trade should have "distant waters information personnel" (yuanyang xinxiyuan) assigned.69 Presumably, the information from far-seas reconnaissance would be funneled to a centralized command center, not to provincial MD commands.

Two authors from the PLA's Equipment Academy published an article in 2017 about the need to development a "sea and space common

operational picture" (haitian yiti zhanchang tongyong taishitu) to support the PLA Navy's far-seas operations. They listed PAFMM "armed reconnaissance fishing vessels" and merchant ships among the sources of surface ISR that would build this common operational picture. Such a development, if fully realized, would also involve the command, control, and management of militia organizations on board Chinese ships in distant waters. To date, there has been virtually no Chinese open-source reporting on actual PAFMM operations outside of the near seas. The discussions (see the preceding paragraphs) of extending ISR networks from the near seas to the far seas suggest that the PLA is considering the development of far-seas ISR generated by a global maritime footprint composed of multiple forces. Whether the PAFMM would play any leading role in such a network—covertly or overtly—remains unknown.

In sum, command of the maritime militia depends on the conditions requiring mobilization, in both peace and war. The PLA utilizes the PAFMM in both peacetime and wartime, as and when needed. The coast guard can also call on PAFMM forces for rights-protection or law-enforcement missions but may be required to provide them material support. In all cases, the MD military and civilian leadership would be involved, either directly or in an oversight role. New institutions and technologies are being incorporated into the mobilization system in order to increase the speed with which local commands can transfer warfighting potential into war-fighting force. From theater command-led joint exercises to MD-level mobilization orders, and from Beidou messages received by captains operating fishing vessels at sea down to individual militiamen receiving local PAFD notifications on their mobile phones, the means of reliably commanding the maritime militia are growing in sophistication and effectiveness. Here is a powerful example of the PLA's concept of "informatization" at the micro level.

Training

Training of militia is not so intense that it harms the militia members' normal work. To compensate, the PAFD active-duty personnel, cadres, battalion/company and militia unit commanders, and the militia information personnel receive focused training. This is essentially a matter of "training the trainers"; these individuals are expected to train individual militia members in turn. Well-trained supervisors are necessary, since

rarely traini Mats militi traini meml more For e a tho inder a mil to do St erally affect famil receiv can a Pi servio agem impre of 20

> Vesse side

suppo

navy

Chin

MSI

test 1

Mini

teach

mun: train

also:

o sup-"armed irces of Such a control, hips in -source is. The tworks idering otprint .ay any nown. ditions zes the d. The tion or matewould ns and tem in er warnd-led u meso indi-

embers' cadres, inforatter of ividual , since

mobile

tia are

xample

rarely can a region make its entire PAFMM force available for a single training event. For example, a PRC district near the Taiwanese-controlled Matsu Islands was able to train only one-fourth of its emergency-response militia personnel during any given exercise. Limited availability for training is one reason why demobilized active-duty soldiers and party members are priority recruiting targets: they tend to have substantially more experience with training, which in itself involves substantial effort. For example, Zhejiang Province in 2015 reportedly mobilized over a thousand maritime militia vessels for training exercises. Given the independence of nature that characterizes fishermen worldwide, keeping a militia force manned by such people sufficiently disciplined and trained to do that requires continuous effort.

Strong political indoctrination is applied to militia organizations generally, but especially to PAFMM units, since they can disproportionately affect events and diplomacy at sea. It is important that militiamen be familiar with national and provincial objectives and policies. They often receive education in the laws of the sea and rules governing what they can and cannot do.

Previously there existed a degree of separation between the PLA services and the militia units built to support them, particularly in management of training. Joint training was conducted, but evaluations and improvements were largely the work of the PLA MDs. The PLA reforms of 2015 stipulated deeper integration between militia units assigned to support the military. Many maritime-militia units assigned to support the navy are now being trained and evaluated directly by naval personnel. In China's northern province of Liaoning, on the Bohai Sea, the Huludao MSD conducted training for five maritime militia detachments at a navy test base in January 2018. Experts from the Naval Aviation Academy, Ministry of Security, and the Maritime Safety Agency were brought in to teach the militia about oceanography, hydrometeorology, shipboard communications equipment, and reconnaissance of land and sea targets. Joint training between maritime militia vessels and actual PLA Navy ships is also increasing.⁷³

Incentives

Vessel owners complain about the opportunity cost of being detained dockside by militia obligations. Local governments and regulations concerning vessel mobilization and requisition allow for monetary compensation to vessel owners and personnel for lost income in such cases. In other circumstances, to offset PAFMM expenses and make its units willing to venture farther from home port (e.g., to the Spratlys), many local governments subsidize their fuel.⁷⁴ Hainan's Tanmen Village provides fuel subsidies to its PAFMM units for the expense of travel to the Spratlys.⁷⁵

A system of rewards and publicity for militiamen is in place, its events usually held during provincial military affairs meetings. A series of awards recognizes advanced militia units, advanced captains and cadres, and other outstanding individuals; such accolades are meant to instill pride and a sense of national duty. Other efforts are aimed at preventing abuse or neglect of militia obligations; these include requiring each fishing vessel and its crew to have the appropriate National Defense Obligation Certificates for national defense and mobilization. These are reviewed annually to ensure that all are current. If crews violate their obligations, their fuel subsidies are reduced or eliminated, and their fishing permits could be canceled.

Specific missions will require tailored incentives and rewards. For instance, the Shanghai PLA garrison is reportedly trying to implement rewards to PAFMM reconnaissance units for each intelligence report they generate. Dispatches deemed important will generate greater rewards.⁷⁶ Such a system could conceivably motivate militiamen to seek out the "big fish" and provide higher-quality intelligence reports for the PLA.

An Important Element of Chinese Seapower

The PAFMM helps China pursue its near-seas claims and operationalize a decisive shift in strategy: from a three-sea-force focus on regional seas to an evolving division of labor in which the PLA Navy is enabled to increase its overseas missions and focus significantly, in part by the assumption of increasing responsibilities in China's near seas by the coast guard and PAFMM. For this the PAFMM has been able to draw on the world's largest fishing fleet.

Continued tensions in the South and East China Seas bring increased attention to the important role the PAFMM plays. Some Chinese scholars and security experts advocate making militiamen China's first line of defense in confrontations over maritime disputes. In many cases they are already deployed to the front lines, such as around Scarborough Shoal.

Since Defer deve men struc fleet one unde

T

tem.

mon the l offer sion tion fishi Chimigislar une: prot forc

supp

nsation to er circumto venture rernments absidies to

its events series of id cadres, to instill preventring each Defense These are late their heir fish-

ards. For nplement eport they rewards.⁷⁶ t the "big

regional senabled rt by the the coast tw on the

increased se scholst line of they are sh Shoal. Since Xi's April 2013 visit to Hainan, numerous *PLA Daily* and *National Defense* articles have recommended increasing support for PAFMM development. Increasing financial resources are allocated to train fishermen and subsidize new vessels. This desire likely drove the rapid construction of Sansha City's new purpose-built, professionalized PAFMM fleet, which in turn has introduced a new model in force development, one which could conceivably be replicated elsewhere as reduced stocks undermine China's fishing industry.

The PAFMM supports China's overall maritime surveillance system. Since the key to China's anti-access/area-denial system is the close monitoring of China's seaward approaches, it is hardly surprising that the PLA has elected to capitalize on the capabilities that its fishing fleet offers. In addition to surveillance, other low-intensity peacetime missions include supporting rights protection (presence missions, obstruction, reef/island development, envelopment, etc.) and dealing with fishing-fleet skirmishes over maritime claims. Should conflicts between China and its smaller regional neighbors break out, the maritime militia might be charged with such wartime tasks as mine warfare, ambush, or island landings. Chinese planners envision employing the PAFMM in unexpected, unconventional ways in addition to its surveillance, rights-protection, and support roles. New reforms introduced to China's armed forces are comprehensively strengthening the nation's PAFMM forces to support future maritime operations in peace and war.

the

htt

use

16. He

17. Zh

18. Ke

19. Ke

20. Tc

M

an

for

dis

Jar

/h

Po

Hi

南"

Fi

中

/m

局 Cc

No

/ci

M

D

中

.cl

 $F\iota$

Fi

/co

C

-0

R

策

M

M

fis

大

H

29. 陈

30. Te

31. 陈

28. "Ä A

25. "P

26. H

27. 郑

24. "圣

21. Kε

22. 杨

23. Ke

Appendix II. China's Maritime Militia

- 1. The ideas expressed here are those of the authors alone. A compendium of their previous publications on this subject is available at http://www.andrewerickson.com/2018/11/secdef-mattis-calls-for-prc-maritime-militia-to-operate-in-a-safe-and-professional-manner-in-accordance-with-international-law/.
- 2. China has had an active Maritime Militia presence in the Spratlys since 1985. It was involved in the tensions over Mischief Reef in 1995, when China built structures on the disputed feature. The Philippine navy arrested Tanmen Militia personnel at Half Moon Shoal, much closer to the Philippine coast and over eighty miles southeast of Mischief Reef. Conor M. Kennedy and Andrew S. Erickson, Model Maritime Militia: Tanmen's Leading Role in the April 2012 Scarborough Shoal Incident (Washington, DC: Center for International Maritime Security, April 21, 2016), http://cimsec.org/.
- See Conor M. Kennedy and Andrew S. Erickson, China's Third Sea Force, the People's Armed Forces Maritime Militia: Tethered to the PLA, China Maritime Report 1 (Newport, RI: Naval War College, China Maritime Studies Institute, March 2017), 2–3, https://dnnlgwick.blob.core.windows.net/.
- 4. See Kennedy and Erickson, China's Third Sea Force.
- 5. 民兵工作条例 [Regulations on Militia Work], "关于认真做好2015年民兵整租工作的通知" [Notice on Seriously Completing 2015 Militia Reorganization Work], Sheyang County Huangsha Port Township Government, March 24, 2015.
- 6. "关于认真做好2015年度民兵整租工作的通知" [Notice on Thoroughly Completing the 2015 Militia Reorganization Work], Qingjiang Township Party Committee, March 23, 2015, http://xxgk.yueqing.gov.cn/YQ119/zcwj/0203/201503/t20150326_1800276.html.
- 7. Xu Haifeng, "Adapting to New Circumstances: Comprehensively Standardize Maritime Militia Construction," 浙江省加强海上民兵建设 [Zhejiang Province Strengthens Maritime Militia Construction], Xinhuanet, December 4, 2013, http://news.xinhuanet.com/mil/2013-12/04/c_125806747.htm.
- 8. See Kennedy and Erickson, China's Third Sea Force.
- 9. 李健南 [Li Jian'nan], "抓实建强基层民兵党组织" [Grasp and Strengthen Grassroots Militia Party Organizations], 中国民兵 [China's Militia] 7 (2017), 34–37.
- 10. [He Zhixiang], "谈海上民兵建设'四纳入'" [Discussion on the "Four Integrations" in Maritime Militia Construction], National Defense 4 (2013); He Zhixiang, "适应海防安全形势—建强海上民兵组织" [Adjusting to the Security Situation in Sea Defense: Strengthen Maritime Militia Organization], National Defense 1 (2015).
- 11. 王文清 [Wang Wenqing], "破解海上民兵建设难题" [Cracking the Code on Issues in Maritime Militia Construction], 中国国防报 [China Defense News], July 28, 2016, 3.
- 12. 张践 [Zhang Jian], "围绕'六化' 抓建推动海上民兵转型" [Advance the Transformation of Maritime Militia Centered on "Six Changes"], 国防 [National Defense] 10 (2015), 21–23.
- Andrew S. Erickson and Conor M. Kennedy, China's Daring Vanguard: Introducing Sanya City's Maritime Militia (Washington, DC: Center for International Maritime Security, November 5, 2015), http://cimsec.org/.
- 14. For a detailed examination of the Sansha Maritime Militia and its creation, see Conor M. Kennedy and Andrew S. Erickson, Riding a New Wave of Professionalization and Militarization: Sansha City's Maritime Militia (Washington, DC: Center for International Maritime Security, September 1, 2016), http://cimsec.org/. Assessments of deployment patterns are based on the authors' observation of the fleet via the Marine Traffic service, https://www.marinetraffic.com/.
- 15. The involvement of the PAFMM was confirmed in the Pentagon's 2018 China Military Report; U.S. Department of Defense, Annual Report to Congress: Military and Security Developments Involving the People's Republic of China 2018 (Washington, DC, August 16, 2018). The presence of at least two PAFMM vessels was determined from

the authors' observation of commercially available satellite imagery; Digital Globe, https://www.digitalglobe.com/.

- 16. He Zhixiang, "Adjusting to the Security Situation in Sea Defense," 48–50. The author uses "militiamen" to cover both male and female PAFMM personnel.
- 17. Zhang Jian, "Advance the Transformation of Maritime Militia," 21-23.

e-and

inel

odel

16),

ople's

017),

工作的

ieyang

eting

:, March

00276

:tp://

groots

ns" in

海防

fense:

sues in

016, 3.

)15),

ing

Conor

ments

Marine

ry and

DC,

l from

rmation

icident

5. It was

- 18. Kennedy and Erickson, Riding a New Wave of Professionalization and Militarization.
- 19. Kennedy and Erickson, Riding a New Wave of Professionalization and Militarization.
- 20. Tonnage estimates were made by: (1) searching for names of known Sansha Maritime Militia at marinetraffic.com, which lists their respective displacements, lengths, and beams; (2) using these data and estimating draft at no more than three meters for vessels in this size category; and (3) employing a block coefficient to calculate displacement; Pia Lee-Brago, "Philippines to Get Nine More Patrol Vessels from Japan," *Philippine Star*, October 14, 2016, http://www.philstar.com/headlines/2016/10/14/1633448/philippines-get-9-more-patrol-vessels-japan.
- 21. Kennedy and Erickson, Riding a New Wave of Professionalization and Militarization.
- 22. 杨曦 [Yang Wei], "三沙: 军警民联防指挥中心永兴岛奠基开工" [Sansha: Military Police Civilian Joint Defense Command Center Breaks Ground], 南海网 [Hainan Hinews], July 25, 2015, http://sansha.hinews.cn/system/2015/07/25/017715316.shtml.
- 23. Kennedy and Erickson, Riding a New Wave of Professionalization and Militarization; "南海三沙民兵处置侵入领海外籍渔船 部署美济礁" [Sansha Militia Handle Foreign Fishing Vessel Incursions in the South China Sea and Are Deployed to Mischief Reef], 中国国防报 [China Defense News], January 27, 2016, http://www.chinanews.com/mil/2016/01-27/7735164.shtml; "三沙市推动军警民联防机制 构建三线海上维权格局" [Sansha City Promotes a Military Police Civilian Joint Defense Mechanism and Constructs a Three-Tiered Maritime Rights Protection System], 中国新闻网 [China News Network], November 21, 2014, http://politics.people.com.cn/n/2014/1121/c70731-26071496.html.
- 24. "军委国防动员部部长: 省军区划归动员部管理 有五职能" [Head of the Central Military Commission National Defense Mobilization Department: Provincial Military Districts to Be Managed under the Mobilization Department with Five Functions], 中国国防报 [China Defense News], March 10, 2016, http://www.guancha.cn/military-affairs/2016_03_10_353475.shtml.
- "President Pays Visit to Hainan Fishermen," China Daily, April 11, 2012, http://usa.chinadaily.com.cn/2013-04/11/content_16394643.htm.
- 26. He Zhixiang, "Discussion on the 'Four Integrations,'" 36-37.
- 27. 郑凌晨 [Zheng Lingchen], "发挥好海上民兵优势 打好军民融合攻坚战" [Give Full Play to the Advantages of the Maritime Militia and Fight for Civil-Military Fusion], 中国海军网 [China Navy Online], October 31, 2016, http://navy.81.cn/content/2016-10/31/content_7334774.htm.
- 28. "海上后备劲旅: 广西北海军分区加强海上民兵建设纪实" [Maritime Reserve Forces: A Record of Guangxi Beihai Military Subdistrict Strengthening Maritime Militia Construction], 解放军报 [PLA Daily], January 6, 2014, http://www.81.cn/lj/2014 -01/06/content_5721123_2.htm.
- 29. 陈长寿 [Chen Changshou], "关于海上维权与作战动员的研究" [Research on Maritime Rights Protection and Combat Mobilization], 国防 [National Defense] 4 (2017), 21.
- 30. Terminology used to describe PAFMM units obscures their exact size and composition.
- 31. 陈青松 [Chen Qingsong], "海防地区支援保障海上作战准备存在的问题与对策" [Issues and Measures in the Preparation for Supporting Naval Warfare in the Maritime Defense Zone], 国防 [National Defense] 10 (2016), 50–51. The Ningbo MSD minesweeper dadui is composed of two hundred PLA Navy reservists and sixteen fishing vessels, with an unknown number of fishing vessel captains and crews; "东海大批渔船编入海军预备役" [A Large Number of Fishing Boats in the East China Sea Have Been Incorporated into the Naval Reserve], 中国军网 [China Military Online], March 11, 2015, http://mil.news.sina.com.cn/2015-03-11/1530824043.html.

- 32. 张国臣 [Zhang Guochen], "海上民兵参加海上封控行动研究" [Research on Maritime Militia Participation in Sea Control Operations], 国防 [National Defense] 11 (2016), 41-43.
- 33. "真假变幻无踪影—目击浙江省台州市椒江区海上民兵伪装分队演练" [Shifting between Real and False with No Trace: Witnessing the Training Exercise of Zhejiang Province Taizhou City Jiaojiang District's Maritime Militia Deception Detachment], 中国民兵 [China's Militia], 10 (2010), http://kns55.en.eastview.com/kcms/detail/detail.aspx?recid=&FileName=MMZG201010057&DbName=CJFD2010&DbCode=CJFD.
- 34. "海军民兵补给分队: 民兵'粮草官'驰骋海疆" [Naval Militia Resupply Detachment: Militia "Food Officers" Ride Out to the Sea Frontier], *People's Daily Online*, January 18, 2012, http://military.people.com.cn/GB/172467/16908831.html.
- 35. 徐守洋, 孟晓飞 [Xu Shouyang and Meng Xiaofei], "海上支援作战能力逐浪攀升" [Maritime Combat Support Capabilities Rise with the Waves], *China Defense News*, April 2015, http://news.mod.gov.cn/militia/2015-04/07/content 4578670.htm.
- 36. "浙江省宁海县人武部58名科技专家编组进民兵'蓝军'" [58 Science and Technology Experts of Zhejiang Province's Ninghai County PAFD Enter the Militia's "Blue Force"], Xinhuanet, November 19, 2014, http://news.xinhuanet.com/mil/2014 -11/19/c_127227368.htm.
- 37. Zhang Jian, "Advance the Transformation of the Maritime Militia," 22.
- 38. 张荣胜, 陈明辉 [Zhang Rongsheng and Chen Minghui], "关于组织动员海上民兵参与维权行动的几点思考" [Some Thoughts on Organizing and Mobilizing Maritime Militia to Participate in Maritime Rights Protection Actions], National Defense 8 (2014).
- 39. Andrew S. Erickson and Conor M. Kennedy, From Frontier to Frontline: Tanmen Maritime Militia's Leading Role Part 2 (Washington, DC: Center for International Maritime Security), May 17, 2016, http://cimsec.org/.
- 40. "中华人民共和国突发事件应对法" [Emergency Response Law of the People's Republic of China], chap. 3, arts. 3 and 17, Baike.com, November 1, 2007, http://www.baike.com/.
- 41. 王赫 [Wang He], "海上民兵直升机救援分队亮相渤海湾" [Maritime Militia Helicopter Rescue Detachment Debuts in the Bohai Bay], 中国国防报 [China Defense News], May 25, 2016, http://www.mod.gov.cn/mobilization/2016-05/25/content_4664211.htm.
- 42. 冯文平 [Feng Wenping], "以新时代党的强军思想为引领构建主要战略方向海上民兵侦察情报体系" [Building a Maritime Militia Reconnaissance and Intelligence System for the Main Strategic Directions under the Guidance of the CPC's Thinking on Building a Strong Military in the New Era], 国防 [National Defense] 1 (2018), 44.
- 43. Feng Wenping, 43-45.
- 44. 丛黎明, 马绍惠 [Cong Liming and Ma Shaohui], "威海军民推进海防建设融合发展" [Weihai Advances in Civil-Military Integrated Development in Sea Defense], National Defense News, January 28, 2015, http://www.mod.gov.cn/mobilize/2015-01/28 /content_4567330.htm; "三沙市推动军警民联防机制—构建三线海上维权格局" [Sansha City Promotes Its Military-Police-Civilian Joint Defense Mechanism: Constructs a Three-Line Maritime Rights Protection Structure], 中国新闻网 [China News], November 2014, http://www.chinanews.com/gn/2014/11-21/6803776.shtml.
- 45. Information Office of the State Council of the PRC, China's National Defense in 2004, http://www.china.org.cn/e-white/20041227/.
- 46. "加速推进后备力量 建设转型发展" [Accelerate and Advance the Construction, Transformation, and Development of Reserve Forces], 中国军网 [China Military Online], March 18, 2016, http://military.people.com.cn/n1/2016/0318/c1011 -28209150.html; 贝骁 [Bei Xiao], "状态之变 带来的连锁反应—海南陵水县人武部后进变先闻思录" [A Chain Reaction Brought about by the Changing Situation: The Experience of the People's Armed Forces Department in Lingshui County, Hainan Province], 中国军网 [China Military Online], August 22, 2016, http://www.81.cn/gfbmap/content/2016-08/22/content_154265.htm.

- 47. Chen (
- 48. Ženg I Militia
- 49. 邓伟余 [The R 2007); 兵分队
- Constr 50. "大冶元
- Trainii 51. During primar any app spottec
 - Tokyo 700 rat Pacific,
- 52. Zuo G Streng 53. 居礼[
- 53. 居礼 [] Beidou Commi /inform
- 54. Xu Ha 55. 曹树建 Has Bo
- Defense /conter Jinghae Territc
- /mobil 56. Feng V
- 43-45. 57. "动员纟 Desk],
 - /gfbma 探索智 Garris
- Noven .htm; ' Zhous
- 58. 管伟后 [Liany Consti
- 59. "民兵b Mobile .farme
- 60. 陈青松 Comb 11 (20
- 61. "常万: Inspec Red F jsnews

Maritime (2016),

ing
Zhejiang
iment],
iail/detail
de=CJFD.
hment:
anuary 18,

攀升" ? News, m. hnology llue

-民兵参 aritime 1se 8

ional Republic

men

a Republic vaike.com/. a

I海上民兵 ce System g on 8), 44.

虫合发展"], National 28 各 unism: 図 [China 6.shtml. e in 2004,

ion, itary l !人武部 ion: The Hainan :81.cn 47. Chen Changshou, "Research on Maritime Rights Protection," 21.

48. Zeng Pengxiang, "Scientifically Build a Management System for the Maritime Militia," *National Defense Magazine* 12 (2014).

49. 邓伟余, 赵赵继承 [Deng Weiyu and Zhao Jicheng], "'海上民兵'崛起在蓝色国土" [The Rise of "Maritime Militia" on Blue Territory], National Defense 2 (September 2007); 廖刚斌, 王牌, 熊睿 [Liao Gangbin, Wang Pai, and Xiong Rui], "海上民兵分队建设存在的问题与对策" [Issues and Measures in Maritime Militia Unit Construction], National Defense 8 (2014), 14–15.

50. "大冶市2012年度民兵军事训练计划" [Daye City 2012 Annual Militia Military Training Plan], http://m.ishare.iask.sina.com.cn/f/32QO2B1WEz5.html.

51. During World War II, Japan commandeered many fishing boats as picket boats, primarily to observe the sea to the east of the mainland and provide early warning of any approaching U.S. task force. One of them, a steel-hulled, ninety-foot fishing boat, spotted the carrier USS *Hornet* carrying Jimmy Doolittle's B-24 bombers to bomb Tokyo in April 1942; the picket radioed Tokyo, causing the planes to launch early at 700 rather 450 miles from Tokyo. See Ian W. Toll, *Pacific Crucible: War at Sea in the Pacific, 1941–1942* (New York: W. W. Norton, 2012), 285–89.

52. Zuo Guidong, Li Huazhen, and Yu Chuanchun, "Heroic Primary Militia Battalion, Strengthening Construction of Maritime Specialized Detachments," Taizhou Net.

53. 居礼 [Ju Li], "北斗卫星导航系统在海洋渔业的应用" [Applications of the Beidou Satellite Navigation System in Marine Fisheries], *Chengdu Guowei Communications Technology Co., Ltd.*, February 4, 2014, http://gwsatcom.com/Trends/inform/2015-06-23/79.html.

54. Xu Haifeng, "Adapting to New Circumstances."

55. 曹树建, 刘健 [Cao Shujian and Liu Jian], "大海成为民兵练兵战备主战场" [The Sea Has Become the Main Battlefield for Militia Training and War Readiness], National Defense News, November 3, 2014, http://www.81.cn/gfbmap/content/2014-11/03/content_91820.htm; 何军毅, 赵继承, 奏景号 [He Junyi, Zhao Jicheng, and Tai Jinghao], "千船齐发, 向着蓝色国土" [A Thousand Vessels Go Out to the Blue Territory Together], National Defense News, May 25, 2015, http://www.mod.gov.cn/mobilize/2015-05/25/content_4586486.htm.

56. Feng Wenping, "Building a Maritime Militia Reconnaissance and Intelligence System,"

43-45.

57. "动员参谋从后台回归" [Mobilization Chief of Staff Comes Out from behind the Desk], 中国军网 [China Military Online], February 14, 2017, http://www.81.cn/gfbmap/content/2017-02/14/content_169350.htm; "海上织网: 浙江省舟山警备区探索智慧动员纪事" [Maritime Network: A Record of Zhejiang Province Zhoushan Garrison's Exploration of Intelligent Mobilization], 中国军网 [China Military Online], November 17, 2016, http://www.81.cn/gfbmap/content/2016-11/17/content_161792.htm; "国防建设巡礼: 浙江省舟山市" [National Defense Tour: Zhejiang Province, Zhoushan City], 国防 [National Defense] 11 (2015), 86.

58. 管伟同 [Guan Weitong], "连云港: 对基层民兵党组织建设的积极探索" [Lianyungang: An Active Exploration into Grassroots Militia Party Organization

Construction], 中国民兵 [China's Militia] 4 (2017), 24-26.

59. "民兵出海, 渔船成为流动岗哨" [Militia Go Out to Sea, Fishing Vessels Become Mobile Sentries], 中国渔业报 [China Fisheries News], December 14, 2015, http://szb.farmer.com.cn/yyb/html/2015-12/14/nw.D110000yyb_20151214_3-04.htm?div=-1.

60. 陈青松 [Chen Qingsong], "海上作战支前动员准备'一二三'" [Preparation for Maritime Combat Support-the-Front Mobilization "One-Two-Three"], 国防 [National Defense] 11 (2015), 50-51.

61. "常万全在苏调研全民国防教育 专程察看角斜红旗民兵团" [Chang Wanquan Inspects National Defense Education in Jiangsu Province, Special Visit to Jiaoxie Red Flag Militia Regiment], 中国江苏网 [China Jiangsu Net], May 16, 2017, http://jsnews.jschina.com.cn/nt/a/201705/t20170516_509602.shtml; "角斜民兵团: '红旗精

神' 在革命热土传承" [Jiaoxie Militia Regiment: Inheriting the "Red Flag Spirit" on Revolutionary Soil], 江海晚报网 [Jianghai Evening News], August 5, 2016, http://www.jhwb.com.cn/content/2016-08/05/content_2476022.htm; 章晓丽 [Zhang Xiaoli], "响应祖国号召 当好海防 '前哨'" [Answering the Call of the Motherland, Serving as a "Forward Outpost" in Maritime Defense], 新华日报 [Xinhua Daily], May 22, 2017, http://www.jsdpc.gov.cn/jmrh/gfjy/dxp/201707/t20170704_428996.html.

'Milit:

Statio

.shtm

Stren; Defer

75. Erick

76. 周厚;

- 62. 宫玉聪 [Gong Yucong], "上海市国防动员训练又出新招" [New Tactics in Shanghai City's National Defense Mobilization Training], 中国民兵 [China's Militia] 2 (2018), 13.
- 63. 陈青松 [Chen Qingsong], "加强和改进海上民兵应急分队建设之我见" [My Opinions on Strengthening and Improving Maritime Militia Emergency Response Detachment Construction], 国防 [National Defense], no. 12 (2014), 35–36.
- 64. 陈青松, 周扁 [Chen Qingsong and Zhou Pian], "紧盯使命任务抓好海上民兵建设" [A Mission-Focused Grasp of Maritime Militia Construction], National Defense 3 (2016).
- 65. Wang He, "Maritime Militia Helicopter Rescue Detachment."
- 66. 唐社教 [Tang Shejiao], "紧贴实战需求 坚持任务牵引 深化推进海上民兵侦察力量建设" [Keeping the Demands of Actual Combat in Mind and Sticking to the Mission-Driven Principle to Further Promote the Building of the Maritime Militia Reconnaissance Force], 国防 [National Defense] 1 (2018), 49–50.
- 67. "Mobilization Chief of Staff Comes Out from behind the Desk."
- 68. Tang Shejiao, "Keeping the Demands of Actual Combat in Mind," 49-50.
- 69. 张莉 [Zhang Li], "加强海上侦察分队建设初探" [Preliminary Thoughts on Strengthening the Building of Maritime Reconnaissance Elements], 国防 [National Defense] 4 (2018), 57–58; Feng Wenping, "Building a Maritime Militia Reconnaissance and Intelligence System," 43–45; 姚淮宁 [Yao Huaining], "着眼形式任务 遵循特点规律 积极探索海上民兵侦察情报建设新模式" [Actively Exploring New Models for Facilitating Work on Maritime Militia Reconnaissance and Intelligence in View of the New Situation and Missions in Accordance with Characteristics and General Laws], 国防 [National Defense] 1 (2018), 46–47.
- 70. "海天一体战场通用态势图构建" [Construction of Sea and Space Battlefield Versatile Situation Picture], 装备学院学报 [Journal of Equipment Academy] 28, no. 2 (April 2017), 46-51. The primary author is from "91746 部队." Units numbered in the series 91XXX through 92XXX are PLA Navy units.
- 71. "关于做好2014年度民兵组织整顿和兵役登记工作的通知" [Notice on the Completion of 2014 Militia Reorganization and Military Service Registration Work], issued by Tingjiang Township, May 12, 2014.
- 72. "解放军动员演练遇尴尬: 海上民兵无纪律未到齐" [An Embarrassment for PLA Exercises: Lacking Maritime Militia Discipline and Attendance], 解放军报 [PLA Daily], December 1, 2015.
- 73. "闻令而动 国防后备力量掀起训练热潮" [Orders to Move, a Surge in Training of National Defense Reserve Forces], 中国军网 [China Military Online], January 4, 2018, http://www.81.cn/jmywyl/2018-01/04/content_7894738.htm; 李峰 [Li Feng], "回首这一年, 感受军改带来的新变化" [Looking Back on This Year and the New Changes Brought About by Military Reform], 国防部网 [Ministry of National Defense of the People's Republic of China], December 21, 2016, http://www.mod.gov.cn/mobilization/2016-12/21/content_4767360_5.htm.
- 74. 石江龙 [Shi Jianglong], "2650艘渔船分享1.94亿燃油补贴" [2,650 Fishing Vessels Receive 194 Million in Fuel Subsidies], http://paper.oeeee.com/nis/201311/29/145728 .html; "台山市委书记张磊获得广州军区第七届'国防之星'殊荣" [Taishan City Committee Secretary Zhang Lei Receives Guangzhou Military Region's Seventh "National Defense Celebrity" Distinction], June 16, 2015, http://news.tsbtv.tv/2015/0616/39266.shtml; "省军区司令员台山调研海上民兵建设工作" [Provincial

Military District Commander Investigates Tanshan's Maritime Militia Work], *Taishan Station*, November 27, 2013, http://www.jmtv.cn/news/a/e/2013-11-27/1385552619943

75. Erickson and Kennedy, From Frontier to Frontline.

76. 周厚江 [Zhou Houjiang], "加强海上侦察分队建设初探" [Preliminary Thoughts on Strengthening the Building of Maritime Reconnaissance Elements], 国防 [National Defense] 4 (2018), 57–58.

nd, ly],

ghai

it" on

tp://

oinions iment

设"[A 2016).

ל

itia

ia 形式任 : New nce

satile pril eries

nd

pletion

by

of , eng],

A

Defense

:ls 15728

ncial

China as a Twenty First Century Naval Power

Theory, Practice, and Implications



Michael A. McDevitt

—Dennis C. Blair, former Commander in Chief, U.S. Pacific Command and former Director of National Intelligence

"Rear Admiral McDevitt has studied the Chinese navy from the decks of destroyers in the South China Sea to the corridors of leading think tanks around the world. His expertise is legendary, and this new book is a commanding analysis of the course China will steer over the coming decades in their voyage to become the leading global maritime power."

—Adm. James Stavridis, USN (Ret.), 16th Supreme Allied Commander of NATO and author of Sailing True North: Ten Admirals and the Voyage of Character

"Rear Admiral McDevitt has written an important book about China as a world power. Few Americans possess his knowledge of maritime strategy and China. He has combined this knowledge with his background as a historian and a seagoing officer with more than thirty years' experience. China as a Twenty-First-Century Naval Power is a must-read for military officers, China specialists, and historians."

—Capt. Bernard D. Cole, USN (Ret.), professor emeritus, National War College, and author of China's Quest for Great Power: Ships, Oil, and Foreign Policy

"Rear Admiral McDevitt delivers the definitive study on China's ambitious quest for greatness at sea. Armed with decades of operational experience, he renders persuasive judgments about China's nautical ascent. For those looking for an authoritative yet accessible appraisal of the Chinese navy, this is it."

—Toshi Yoshihara, senior fellow, Center for Strategic and Budgetary Assessments, and co-author of Red Star over the Pacific: China's Challenge to U.S. Maritime Strategy, 2nd ed.

"Rear Adm. Mike McDevitt's superb book is a 'must-read' for naval/ security specialists, as well as national leaders and thinkers."

-Yoji Koda, former Commander in Chief, JMSDF Fleet



For more information on this and other great books, visit www.usni.org. | eBook edition also available.

MILITARY • CHINA PRINTED IN THE U.S.A. Naval Institute Press 291 Wood Road Annapolis, MD 21402

© 2020 by Michael McDevitt

All rights reserved. No part of this book may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and recording, or by any information storage and retrieval system, without permission in writing from the publisher.

Library of Congress Cataloging-in-Publication Data

Names: McDevitt, Michael A., author.

Title: China as a twenty-first-century naval power: theory, practice, and implications / Michael A. McDevitt.

Description: Annapolis, MD: Naval Institute Press, [2020] | Includes bibliographical references and index.

Identifiers: LCCN 2020013637 (print) | LCCN 2020013638 (ebook) | ISBN 9781682475355 (hardcover) | ISBN 9781682475447 (epub) | ISBN 9781682475447 (pdf)

Subjects: LCSH: China. Zhongguo ren min jie fang jun. Hai jun. | China—Military policy. | Sea-power—China. | Military planning—China.

Classification: LCC VA633 .M39 2020 (print) | LCC VA633 (ebook) | DDC 359/.030951—dc23

LC record available at https://lccn.loc.gov/2020013637 LC ebook record available at https://lccn.loc.gov/2020013638

© Print editions meet the requirements of ANSI/NISO z39.48–1992 (Permanence of Paper).

Printed in the United States of America.

28 27 26 25 24 23 22 21 20 9 8 7 6 5 4 3 2 1 First printing

Maps by Chris Robinson.

LIST O

PREFA

Снарт

CHAP:

CHAP:

Снарт

CHAP

CHAP'

CHAP'

CHAP'

APPEN

APPEN

Note

BIBLIC

INDEX

CONTENTS

in ying out

ISBN

hina.

LIST OF ILLUSTRA	TIONS	v
Preface		VI
Acknowledgments		XII
Chapter One	China's Maritime Power Ambition	1
Chapter Two	Getting Started: Learning How to Operate Abroad	19
Chapter Three	The PLA Navy Becomes a "Blue-Water" Navy	41
Chapter Four	Combat in China's Near Seas: Area Denial	72
Chapter Five	Keeping the Americans Away: Anti-Access and the Taiwan Campaign	102
Chapter Six	The PLA Navy and the South China Sea	118
CHAPTER SEVEN	The PLA Navy in the Indian Ocean	150
Chapter Eight	Opposite Sides of the Same Coin: Maritime Power and the PLA Navy	169
Appendix I	The China Coast Guard: A Uniformed Armed Service	187
Appendix II	China's Maritime Militia: An Important Force Multiplier	207
Notes		231
Bibliography		273
INDEX		280

ILLUSTRATIONS

legi ern

a bl war with fifts fina

cap:

Nav of t flag mer that larg sche as it that but sea "gre

Jing Reg

bee:

Maps		
-	nd the South China Sea	FRONTISPIECE
Map 1.	First and Second Island Chains	76
Map 2.	Taiwan and Taiwan Strait	79
Мар 3.	Conventional Ballistic and Cruise Missile Coverage of the Indo-Pacific	107
Map 4.	Major PLA Bases in the South China Sea	128
Tables		
Table 1.	PLA Navy Warship Voyages Abroad: 1985–199	9 21
TABLE 2.	PLA Navy Overseas Deployments: 2000–2008	25
Table 3.	Blue-Water-Capable Ships of Major Naval Powers	68
Table 4.	The Peacetime Western Pacific Naval Balance around Taiwan (July 2019)	84
TABLE 5.	Peacetime Western Pacific Fighter/Strike Air Balance around Taiwan (July 2019)	86
Table 6.	PLA Rocket Force and Taiwan	87
Images		
China's fi	rst aircraft carrier, Liaoning (CV 16)	52
A Shenya	ng J-15 Flying Shark about to land	54
A Flying	Shark taking off	55
Hohhot (D	DDG 116), a Luyang III (Type 052D)–class ship	58
Subi Reef	compared to Pearl Harbor	141

PREFACE

ITISPIECE

This is a book about today's Chinese navy and how it transitioned from the baby operational steps it was taking in the 1990s to the legitimate "blue-water" force it is today. It argues that ten years of northern Arabian antipiracy patrols, thousands of miles from China, represented the key accelerant in this rise in capability. These operations were a blue-water "laboratory" where the Chinese navy learned how to sustain warships on distant station for many weeks at a time. They overlapped with the takeoff in Chinese naval warship procurement that began just fifteen years ago. Since 2005 the People's Republic of China (PRC) has financed the building of enough warships to create the second-most-capable blue-water navy in the world.

Burdened with the awkward official name of People's Liberation Army Navy, the PLA Navy (in some sources simply PLAN) is the naval arm of the Chinese Communist Party (CCP). Although it flies the national flag, its loyalty is to the CCP, and the leaders of the PRC never let its members forget this. This party navy is a modern, well-equipped force that is numerically larger than the U.S. Navy. Yes, the PLA Navy is the largest navy in the world. This is still a bit of shock; in fact, one respected scholar argued in 2018 that China "will never become a seapower as long as it remains a vast land empire. . . . [T]he sea is so unimportant [to China] that China does not have [a] navy." Technically, I suppose he is right, but if China does not have a navy, the CCP certainly does. In fact, the sea is so important to the PRC that it has its sights set on becoming a "great maritime power" with a navy that is "world-class," in the words of Xi Jinping, the general secretary of the CCP and also president of the People's Republic of China and commander in chief of China's military, the PLA.

This book is not a history of the PLA Navy; that book has already been well written, twice, by Dr. Bernard Cole. What it attempts to do is explain how the PLA Navy arrived, seemingly overnight, in its role of eminence; where it is headed in terms of growth; and what role it plays in defending China and Chinese national interests. It delves in some detail into the role the PLA Navy plays in the Chinese military's layered-defense concept. That concept the U.S. Department of Defense (DoD) characterizes as "anti-access" and "area denial" (or, as it is better known by defense experts worldwide, A2/AD). It explains how the PLA Navy fits into a joint Chinese military concept of operations aimed at keeping America's navy and air force at arm's length should conflict between the United States and China break out. The role the PLA Navy might play in denying U.S. armed forces access to the western Pacific Ocean—where America's regional allies (Japan, South Korea, the Philippines, and Thailand) all live in the shadow of China—is explored in this book.

Taiwan, also known as the Republic of China (ROC), is also in the PRC's shadow. Taiwan is an important topic in this book, because it is the East Asian friction point that could most credibly involve the United States in a war with China. Should the PRC elect to use force to "reunite" what it deems its wayward province, the PLA Navy will play a leading role. In the unlikely but possible event that Xi Jinping orders the PLA to attack, U.S. forces permanently stationed in East Asia could quickly become involved in conflict with China. That is especially true for the U.S. Seventh Fleet and Fifth Air Force, both of which are stationed on Japanese territory. The book explores the operational roles of the PLA Navy and its sister PLA services in such a conflict.

This work also aims to put the PLA Navy into the broader context of China's national goal to become a great maritime power—or, as some would have it, a "maritime great power." The PRC has developed an impressive blend of all the capabilities one would associate with maritime power. Discovering these facts is the reason I decided to write this book. I was reviewing, in connection with a research project, the text of former PRC leader Hu Jintao's 2012 tediously long "work report" to the party congress at the end of his term in office. Wading through an English version of the document, I came across a statement establishing as a national objective that China should become a "great maritime power." I was immediately struck by the audacity of such an assertion, as well as with its candor and lack of equivocation.

My curiosity was piqued. How did the leadership of the Chinese party-state think about maritime power? How did it interpret maritime

even this l Con

gene

great Tresea Was it be not s blue'

poin

impo

its se

the j econ mari and creat Xi n tion

a gre

as a diffe "wor mari it is clear incluand

T

ity to

ole it plays s in some 's layeredise (DoD) er known 'LA Navy it keeping tween the night play n—where and Thai-

lso in the cause it is he United "reunite" a leading the PLA d quickly the for the tioned on the PLA

r context; as some cloped an ith mari-write this the text eport" to rough an lishing as e power."

Chinese maritime power? Why did it want to become a maritime power? These questions eventually led to an eighteen-month study, which in turn eventually led to this book. It became clear over the course of my research that the Chinese Communist Party leadership has concluded that becoming a maritime power is essential to long-term national goals—goals that the current general secretary has encapsulated as the "China Dream," a so-called great rejuvenation of the Chinese state that will be accomplished by 2049.

The more my colleagues at the Center for Naval Analyses (or CNA, a research center in Arlington, Virginia, just across the Potomac River from Washington, DC) and I dug into the maritime-power goal, the clearer it became that when Hu announced this objective in 2012, China was not starting with a clean sheet of paper. This was not a "bolt out of the blue" aspiration; rather, in terms of party policy, it was the culminating point of over a decade of careful consideration of, and appreciation for, the importance of the maritime domain to China's continued development, to its security, and to its vision of its place in the world.

China's strategic circumstances have changed dramatically over the past thirty years. Since the 1990s, the dramatic growth in China's economic and security interests abroad have combined with traditional maritime-centered strategic objectives (such as unification with Taiwan and the "reclaiming" of land features in the East and South China Seas) to create a new reality that demands a focus on the maritime domain. Once Xi made maritime power an element of his "dream of the great rejuvenation of the Chinese nation," it became a forgone conclusion that becoming a great maritime power will remain a national objective.

China defines maritime power the way the world largely defines it, as a broad construct that encompasses more than naval power. What is different, however, is the Chinese emphasis on the power that having a "world-class navy" yields. Such a force is the essential prerequisite of "great" maritime power. That is why the focus of the book is the PLA Navy; it is the keystone of the entire Chinese maritime-power edifice. Beijing clearly understands and appreciates that the maritime-power equation also includes a large and effective coast guard; a world-class merchant marine and fishing fleet; a globally recognized shipbuilding capacity; and an ability to harvest or extract economically important maritime resources.

This book also dwells on another statement made before a party congress, this one by Xi Jinping. During his first work report as general

secretary, to the 19th Party Congress in 2017, Xi stated he wanted the entire PRC military establishment, known as the People's Liberation Army, to be a "world-class" force by 2049 and that ongoing modernization was to be largely be completed by 2035, just fifteen years away.² Neither Xi nor other senior officials have defined what "world-class" means, but the phrase connotes "second to none," "top tier," or "best in the world." This work puts flesh on these bones and provides a sense of what "world-class" means for the PLA Navy.

The central role the PLA Navy plays in China's contemporary national strategy is examined. PRC strategists are obsessed with the notion that America is bent on containing China; the PLA Navy's mission includes trying to thwart any attempt at military containment, which would almost certainly capitalize on the PRC's economic dependence on maritime trade in raw materials, especially hydrocarbons. This dependence causes Beijing and the PLA Navy to be anxious that its sea lines of communication (SLOC) could be interrupted. Reading official PLA defense documents could lead one to believe the PLA Navy is suffering from a case of "SLOC anxiety." For the PLA Navy, the problem is real. It is particularly acute in the Indian Ocean where its long SLOC presents the PLA Navy with a very difficult defensive problem. A very different SLOC situation exists in the South China Sea, where since the late 1950s the PLA Navy has played a leading part in China's slow but steady accumulation of land features and their conversion into military bases. Today a network of island bases provides the PLA Navy the means to protect this thousand-nautical-mile SLOC.

In short, this book addresses the surprising growth and maturation of the PLA Navy. It is an exploration of the growth of China's navy from the perspective of the missions assigned by the party-state. It discusses why China seeks to become a maritime power; why President Xi Jinping has determined that China should possess a "world-class" navy by midcentury; and why he is pressing the entire PLA, including the navy, to have this world-class objective "largely completed" in fifteen years. Coincidently perhaps, 2035 is also when the Trump administration's goal of a 355-ship U.S. Navy is projected to be achieved.

The book concludes by exploring what a "world-class navy" might look like. We know it will be big, but will it begin to operate sizable naval task forces abroad on a routine basis as the U.S. Navy does, or will the opera active expect in the region Fi time p ity. O that i Secure

book ible C preen very l

Th

the no

Coast by Ar Andre them an ince maritilargel: China guard operational focus remain regional, with only modestly sized formations active overseas? My conclusion is that it will be a force with global expeditionary capability, mimicking the United States in certain aspects in the Indian Ocean region, but that it will also maintain an overwhelming regional force reminiscent of imperial Japan's on the eve of World War II.

Finally, not so very long ago the idea that China would become a maritime power seemed absurd. Today, that preposterous idea has become reality. On June 1, 2019, DoD released an official *Indo-Pacific Strategy Report* that repeats a claim first made in the Trump administration's *National Security Strategy*, that China seeks "Indo-Pacific regional hegemony in the near term and ultimately global preeminence in the long term." This book judges that maritime predominance in the western Pacific is a credible Chinese aspiration. I am, however, dubious that China seeks global preeminence; however, if the DoD is correct, Beijing is going to need a very large navy.

A word about the appendices.

This work has two superb contributed appendices, one on the China Coast Guard and the other on China's maritime militia. They were written by America's leading experts on these subjects, Ryan D. Martinson, Dr. Andrew S. Erickson, and Conor M. Kennedy, at my request. I asked them to do this because to focus simply on the PLA Navy would produce an incomplete and unbalanced picture of the totality of China's coercive maritime power. In the East and South China Seas, the PLA Navy has largely remained over the horizon, leaving the dirty work of asserting China's maritime claims, in an often heavy-handed way, to the coast guard and the PLA-controlled maritime militia.

e trade
Beijing
ication
iments
SLOC
cute in
with a
xists in
played
eatures
d bases
al-mile

ed the

eration

ization Veither

ns, but world."

world-

ational

on that

icludes almost

tion of om the es why ng has entury; ve this idently 55-ship

ht look e naval vill the