

# ORBAT to Units v4



This document is a bit more “back end” then most, and as such is kept in less pristine condition. If anything is unclear simply email me and I can answer your question.

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## Notes on Constructing Units

1. When some units that may not be available in a real war due to maintenance, workup, etc. are, in this game assumed to be instantly ready. This avoids the extremely difficult task of having to determine different maintenance cycles, dependent on different types of platforms, etc. and then have to further accurately determine reinforcements from that (if you wish to implement, there is a 30% chance of these units not being available for subs<sup>1</sup>, and 50% for ships<sup>2</sup>). Some exceptions to this have been made:
  - a. Smaller nations were generally given the benefit of the doubt when constructing forces to give their players something to do (for example the availability and range of Australian submarines and ability of France/UK to move land forces into theater – feel free to remove these from the game, I often do!).
  - b. Submarines of which some are staggered to prevent overcrowding of the board and add some of the real world “not everything is immediately available” issues. Old Chinese subs are so noisy and prone to breakdowns that they are assumed to be in indefinite maintenance or sunk before they ever do anything useful, meaning that they don’t need to be represented and therefore don’t clutter the board (This leaves just new Nuke and Diesel subs).
2. Platforms are generally categorized (4<sup>th</sup> Gen, 5<sup>th</sup> Gen) or are assumed to all be the most numerous of the given type (all Chinese destroyers are type 54’s, all US cruisers are Ticonderoga’s) for larger nations. For bombers only those able to carry ASHM and Cruise Missiles were made into units.
3. I Assume 10% of subs are not available for combat and 20% are undergoing maintenance, respectively take 3, 7, 14 days to get moving.<sup>3</sup>
4. With the start of a major war involving the US it is assumed that many cold conflicts would begin to heat up around the world and require US deployments to keep them cold, as such many Atlantic assets of various countries (US, Canadian) are not available within the timeframe of the game (1 month), and many other actors are limited in what they can provide (UK, France).
5. Readiness - For SSK’s or smaller ships having 1 active sub might require .2 or .5 in transit or refueling/reprovisioning in port, so unavailable ships help account for that.

## Reinforcements

Where a % in a box is shown (e.g. [50%]), that indicates a 50% chance for each listed element to show up (these should be pre-rolled before the game). So [70%] 2 x Los Angeles, indicates a 70% chance of each Los Angeles showing up – not an all or nothing 70% chance of both showing up. Other notes in brackets [One of four is available] indicates other deployment notes.

Timings are calculated based on rough distances.<sup>4</sup> Alternately the US Reinforcements Sheet may be used instead (and is probably a more accurate representation of reinforcement flows).

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<sup>1</sup> Land units included in this game are the militaries' expeditionary units and as such are designed to be available for crises. Some land units are not expeditionary but are available in such numbers (US and Chinese land units for example) that a number would be available no matter what. Air units have good availability due to that fact that airframes are relatively quick to repair and being one or two airframes down in a squadron is not measured in the game.

<sup>2</sup> Estimating the availability of ships is extremely difficult as the US navy does not track the relevant metrics to get a number (see Weapon System Sustainment Navy Ship Usage Has Decreased as Challenges and Costs Have Increased, U.S. Government Accountability Office, January 2023, <https://www.gao.gov/assets/gao-23-106440.pdf>, specifically pg. 19-21, and the whole report more generally). As such I assume 50% availability in wartime, but use dice rolls to add some randomness for players interest and variation across games. Notably for US anphibs this has been as low as 32% and has averaged 46% readiness over a decade (2012-2022) <https://www.defenseone.com/threats/2023/03/fewer-13-navys-amphibious-ships-are-ready-deploy/383874/>

<sup>3</sup> See *Navy Virginia (SSN-774) Class Attack Submarine Procurement: Background and Issues for Congress*, July 6, 2023, pg. 5 <https://sgp.fas.org/crs/weapons/RL32418.pdf>, see also <https://news.usni.org/2022/09/21/navsea-navy-struggling-to-get-attack-subs-out-of-repairs-on-time-as-demand-increases> (2022). 10% of US subs are idle, and 20% undergoing maintenance.

<sup>4</sup> For example subs were calculated based on numbers from *U.S. Diesel Boats? Never Again!* by Cmdr. Cameron Aljilani in *Undersea Warfare*, Issue 64, Winter 2018, pg. 6, “For perspective, a 2,000-nautical mile (nm) transit from Guam to the South China Sea would take about 12 days for a diesel submarine at 7 knots and about three days for a nuclear submarine operating at 25 knots.”

The arrival days here represent the most optimal, perfect scenario timings, and assume that units are already on alert due to intelligence indicators or an increasing crisis. In reality, these numbers should be much longer. For more realism, add 1d10 days to the reinforcements arrival per week they are from the start of the reinforcements sheet. Thus, units coming on days 1-7 add 1d10 to their initial arrival date. Ones on week 2 (days 8-14) would add 2d10 to their initial arrival date, 3d10 for the 3<sup>rd</sup> week and so on.

<u><b>Day 1</b></u>		
<u><b>Day 2</b></u>		
U.S. 1 x F-22A (5 <sup>th</sup> Gen Fighter)	Day 2	Coming from Hawaii. Based on expert advice <sup>5</sup>
Aus 3 x F-35A (5 <sup>th</sup> Gen Fighter)	Day 2, any air sector	Assuming 1 day prep.
<u><b>Day 3</b></u>		
Aus ESG	Day 3 (3811)	<b>Setup w/ 3 Missiles.</b> Assume 1 day prep and then steaming at 25 knots. Assuming 1600 km journey.
[Optional] <sup>6</sup> Aus/NZ SAG	Day 3 (3811)	<b>Setup w/ 3 Missiles.</b> Assume 1 day prep and then steaming at 25 knots. Assuming 1600 km journey.
Aus 4 x Collins SS	Day 3 (3811)	Assuming no prep time and transit to area at 15 knots. Assuming 1600 km journey.
U.S. 3 x Los Angeles SSN	Day 3	Coming from Guam about ~1200 km at speed of 15 knots + 1 day for organization to move out.
U.S. 1 x F-22A Squadron (5 <sup>th</sup> Gen Fighter), 1 x F-35 (5 <sup>th</sup> Gen Fighter), 1x F-16C/D (4 <sup>th</sup> Gen Multirole)	Day 3	Coming from Alaska. Based on expert advice <sup>7</sup>
[45% <sup>8</sup> (9+ on a d20) Optional] <sup>9</sup> Canada 4 x CF-18 (4 <sup>th</sup> Gen Multirole)	Day 3	Given coming from Alaska is roughly 3 days, I assume that coming from various Canadian airbases is about the same.
Japan 1 x SSK	Day 3 in Kure	Assume crash maintenance to get them out
Japan 1 x SSK	Day 3 in Yokosuka	Assume crash maintenance to get them out
China x 1 SS	Day 3 in Qingdao	Assuming crash maintenance to make ready
China x 2 SS	Day 3 in Ningbo	Assuming crash maintenance to make ready
China x 1 SS	Day 3, Sanya (2303)	Assuming crash maintenance to make ready
<u><b>Day 4</b></u>		
UK 1 x Typhoon (4 <sup>th</sup> Gen Multirole), 3 x Typhoon (4 <sup>th</sup> Gen Fighter)	Day 4	Based on expert analysis by Paul Kendal OBE and Mobility Guardian 2023 numbers (which state 21 hours, but I think it would likely be slower in practice) <sup>10</sup>

<sup>5</sup> Paul Kendal OBE made an educated guess it would take 4 days to deploy a squadron from Continental Europe to the Pacific, as Hawaii is closer, I estimate 2 days

<sup>6</sup> Only include if the NZ player wants to commit to fighting. Otherwise the unit enters 3 days from when NZ decides to commit.

<sup>7</sup> Paul Kendal OBE made an educated guess it would take 4 days to deploy a squadron from Continental Europe to the Pacific, as Alaska is closer, I estimate 3 days.

<sup>8</sup> Operational rate of Canadas Air Force, <https://warontherocks.com/2024/04/dont-count-on-us-canadas-military-unreadiness/>

<sup>9</sup> Only include if the Canadian player wants to commit to fighting. Otherwise the unit enters 3 days from when Canada decides to commit.

<sup>10</sup> *Inside the Air Force's massive mobility war game in the Pacific*, Rachel S. Cohen, Aug 9, 2023,

<https://www.airforcetimes.com/news/your-air-force/2023/08/09/inside-the-air-forces-massive-mobility-war-game-in-the-pacific/>

[Optional] <sup>11</sup> French 1 Mirage 2000-5F Squadron (4 <sup>th</sup> Gen Multirole) French 1 Rafale Squadron (4 <sup>th</sup> Gen Multirole)	Day 4	Based on expert analysis by Paul Kendal OBE. For an example of how this might work, see footnote <sup>12</sup>
[Optional] <sup>13</sup> French 1 Rafale Squadron (4 <sup>th</sup> Gen Multirole) French 1 Mirage 2000D Squadron (4 <sup>th</sup> Gen Tac Bomber)	Day 4	Based on expert analysis by Paul Kendal OBE
<b><u>Day 5</u></b>		
<b><u>Day 6</u></b>		
<b><u>Day 7</u></b>		
Japan 1 x SSK	Day 7 in Yokosuka	Assume crash maintenance to get them out
Japan 1 x SSK	Day 7 in Kure	Assume crash maintenance to get them out
China x 1 SS	Day 7 in Qingdao	Assuming crash maintenance to make ready
China x 1 SS	Day 7 in Ningbo	Assuming crash maintenance to make ready
China x 1 SS	Day 7 in 2006	Assuming crash maintenance to make ready
China x 1 SSN	Day 7 in Qingdao	Assuming crash maintenance to make ready
China 1 x J-7 (3 <sup>rd</sup> Gen Multirole)	Day 7 in any air theater	
<b><u>Day 8</u></b>		
<b><u>Day 9</u></b>		
Aus 2 x F/A-18 (4 <sup>th</sup> Gen Fighter)	Day 9, any air sector	Assuming 1 day prep, 1 week to pull out of storage and make run.
<b><u>Day 10</u></b>		
[60%] U.S. 4 x Los Angeles SSN, 6 x Virginia SSN	Day 10 (Any Eastern border hex)	Coming from Pearl Harbor is distance of ~6,000 km at speed of 15 knots + 1 day for organization to move out.
Aus 1 x Collins SS	Day 10 (3811)	Assuming 7 days for crash repair to put into service and transit to area at 15 knots. Assuming 1600 km journey.
Taiwan 1 x Missile Boat Squadron	Day 10 (1911)	See footnote. <sup>14</sup> Fitted out in Zuoying Military Port, so placed in 1911 <sup>15</sup>
<b><u>Day 11</u></b>		
<b><u>Day 12</u></b>		

<sup>11</sup> Only include if the French player wants to commit to fighting. Otherwise the unit enters 3 days from when France decides to commit.

<sup>12</sup> *France Flexes Military Muscle in the Indo-Pacific*, Chen Chuanren and Thierry Dubois, Aviation Week and Space Technology, Jan 30-Feb 12, 2023, pg. 28 indicates a low-footprint mission like the USAF distributed warfighting concept might be viable way to employ them, for the benefit of the French players, I give them a (very strong) benefit of the doubt.

<sup>13</sup> Only include if the French player wants to commit to fighting. Otherwise the unit enters 3 days from when France decides to commit.

<sup>14</sup> The Coast Guard cutter entered fitting on May 4<sup>th</sup> as per <https://udn.com/news/story/10930/6274495> (2022) and shot a missile on the 27<sup>th</sup> as per <https://www.thedrive.com/the-war-zone/taiwans-coast-guard-test-its-ability-to-turn-cutters-into-ship-killers> (2022). Total time elapsed = 23 days between entering fitting and firing (though likely not all of it was required). Thus, I assume it would take 10 days to get them fitted in an emergency situation.

<sup>15</sup> <https://udn.com/news/story/10930/6274495> (2022)

<b>[Only 1 of the 4 available]</b> U.S. CSG 1, CSG 3, CSG 9, CSG 11. Airwings: <i>1 and 3</i> – 3x F/A-18 (4 <sup>th</sup> G Multirole), 1 x F-35. <i>9 and 11</i> – 4x F/A-18 (4 <sup>th</sup> G Multirole)	Day 12 (Any Eastern border hex) <sup>16</sup>	Coming from East Coast is distance of ~10,000 km at speed of 25 knots + 3 days for organization to move out.
[50%] Lightning Carrier CSG w/ 2 x F-35B Squadron	Day 12 (Any Eastern border hex)	Coming from East Coast is distance of ~10,000 km at speed of 25 knots + 3 days for organization to move out.
[50%] <sup>17</sup> 3 x ESG w/ F-35B Squadron*	Day 12 (Any Eastern border hex)	Coming from East Coast is distance of ~10,000 km at speed of 25 knots + 3 days for organization to move out.
[50%] 1 x ESG w/ F-35B Squadron*	Day 12 (Any Eastern border hex)	Coming from East Coast to rendezvous with Pearl Harbor units on way to theater. East Coast is limiting factor. Coming from East Coast is distance of ~10,000 km at speed of 25 knots + 3 days for organization to move out.
*Any ESG's that do not deploy have their MEF available for deployment to the theater, even if they do not embark on a ship.		
<b><u>Day 13</u></b>		
US 1 x Los Angeles SSN	Day 13, Any Eastern border hex	Assume crash maintenance to get sub ready. Coming from Pearl Harbor. Refit is distance of ~6,000 km at speed of 15 knots + 1 day for organization to move out (10 days to get to theater). But +3, 7, 14, 21 days for refit.
[46%] <sup>18</sup> (9+ on a d20), Optional] <sup>19</sup> Canada 1 x Missile Boat Squadron	Day 13, Any Eastern border hex	Coming from CFB Esquimalt, is distance of ~10,000 km at speed of 25 knots + 4 day for organization to move out.
<b><u>Day 14</u></b>		
Japan 1 x SSK	Day 14 in Kure	Assume crash maintenance to get them out
Japan 1 x SSK	Day 14 in Yokosuka	Assume crash maintenance to get them out
China x 1 SS	Day 14 in Qingdao	Assuming crash maintenance to make ready
China x 2 SS	Day 14 in Ningbo	Assuming crash maintenance to make ready
China x 1 SS	Day 14, Sanya (2303)	Assuming crash maintenance to make ready
China 1 x J-7 (3 <sup>rd</sup> Gen Multirole)	Day 14 in any air theater	
<b><u>Day 15</u></b>		
<b><u>Day 16</u></b>		
[60%] U.S. 6 x Los Angeles SSN, 2 x Ohio SSGN, 3 x Seawolf SSN	Day 16 (Any Eastern border hex)	Coming from Washington, is distance of ~10,000 km at speed of 15 knots + 1 day for organization to move out.
[46%] <sup>20</sup> (9+ on a d20), Optional] Canada 2 x Victoria Class SSK	Day 16 (Any Eastern border hex)	Coming from CFB Esquimalt, is distance of ~10,000 km at speed of 15 knots + 1 day for organization to move out.

<sup>16</sup> 12 days seems relatively accurate (e.g. hightailing it to the fight) given rearming times given in

<https://www.usni.org/magazines/proceedings/2024/june/improving-sea-missile-rearming>

<sup>17</sup> <https://www.defensenews.com/naval/2022/10/04/us-marines-warn-against-navys-fy24-decommission-scheme/> (Oct. 2022), 45% of the US amphib fleet is ready (rounded up to 50% to be nice to the US player and to have to avoid using percentile dice or a d20 (which is unintuitive compared to a d10))

<sup>18</sup> Operational rate of Canadas Air Force, <https://warontherocks.com/2024/04/dont-count-on-us-canadas-military-unreadiness/>

<sup>19</sup> Only include if the Canadian player wants to commit to fighting. Otherwise the unit enters 3 days from when Canada decides to commit.

<sup>20</sup> Operational rate of Canadas Air Force, <https://warontherocks.com/2024/04/dont-count-on-us-canadas-military-unreadiness/>

<b><u>Day 17</u></b>		
US 1 x Los Angeles SSN	Day 17, Any Eastern border hex	Assume crash maintenance to get sub ready. Coming from Pearl Harbor refit is distance of ~6,000 km at speed of 15 knots + 1 days for organization to move out (10 days to get to theater). But +3, 7, 14, 21 days for refit.
<b><u>Day 18</u></b>		
<b><u>Day 19</u></b>		
U.S. 1 x Los Angeles SSN, 1 x Seawolf SSN	Day 19	Coming from Washington refit is distance of ~10,000 km at speed of 15 knots + 1 day for organization to move out (16 days). Coming from Washington as above but +3, 7 days
<b><u>Day 20</u></b>		
<b><u>Day 21</u></b>		
China x 1 SS	Day 21 in Qingdao	Assuming crash maintenance to make ready
China x 2 SS	Day 21 in Ningbo	Assuming crash maintenance to make ready
China x 1 SS	Day 21, 2006	Assuming crash maintenance to make ready
China 1 x J-7 (3 <sup>rd</sup> Gen Multirole)	Day 21 in any air theater	
<b><u>Day 22</u></b>		
<b><u>Day 23</u></b>		
US 1 x Los Angeles SSN	Day 23	Coming from Washington refit is distance of ~10,000 km at speed of 15 knots + 1 day for organization to move out (16 days). Coming from Washington as above but +3, 7 days
UK 1 x Astute SSN	Day 23	Running from Britain, 15,000km at 15 knots, going through Med and Suez, +1 day to get ready.
<b><u>Day 24</u></b>		
US 1 x Los Angeles SSN	Day 24, Any Eastern border hex	Assume crash maintenance to get sub ready. Coming from Pearl Harbor refit is distance of ~6,000 km at speed of 15 knots + 1 days for organization to move out (10 days to get to theater). But +3, 7, 14, 21 days for refit.
<b><u>Day 25</u></b>		
<b><u>Day 26</u></b>		
<b><u>Day 27</u></b>		
<b><u>Day 28</u></b>		
China 1 x J-7 (3 <sup>rd</sup> Gen Multirole)	Day 28 in any air theater	
<b><u>Day 29</u></b>		

## **USAF Air Combat Command**

Units with Random Availability come in 2d20+1 days from game start (if you don't want to roll, use the pre-generated table below).

- 3 x A-10C Squadrons (4th Gen Ground Attack)\*
- 4 x F-15E Squadrons (4th Gen Multirole)
- 3 x F-16CM Squadrons (4th Gen Multirole)
- 2 x F-22 Squadrons (5th Gen Fighter)
- 3 x F-35A Squadrons (5th Gen Fighter)

\*Optionally these A-10's can be sent to Europe or the Middle East to free up other squadrons of aircraft instead.<sup>21</sup> If so, for each A-10 squadron roll a d6 for it's replacement: [1-2] F-15E, [3-4] F-16, [5-6] F-35A. These squadrons show up an additional 3d6 days later in addition to the original activation time (2d20+1+3d6).

### **Pre-generated Table: - needs to be re-rolled**

<b>Day</b>	<b>Squadrons:</b>
<i>Day 2</i>	1 x A-10C Squadron (4th Gen Ground Attack)
<i>Day 3</i>	None
<i>Day 4</i>	1 x F-15E Squadron (4th Gen Multirole) 1 x F-16CM Squadron (4th Gen Multirole)
<i>Day 5</i>	1 x F-15E Squadron (4th Gen Multirole) 1 x F-16CM Squadron (4th Gen Multirole)
<i>Day 6</i>	1 x F-22 Squadron (5th Gen Fighter)
<i>Day 7</i>	1 x F-15E Squadron (4th Gen Multirole)
<i>Day 8</i>	1 x F-15E Squadron (4th Gen Multirole) 1 x F-35A Squadron (5th Gen Fighter)
<i>Day 9</i>	1 x A-10C Squadron (4th Gen Ground Attack) 1 x F-22 Squadron (5th Gen Fighter)
<i>Day 10</i>	1 x A-10C Squadron (4th Gen Ground Attack)
<i>Day 11</i>	2 x F-35A Squadron (5th Gen Fighter)
<i>Day 12</i>	None
<i>Day 13</i>	1 x F-16CM Squadron (4th Gen Multirole)

<sup>21</sup> Based on the idea from <https://www.wsj.com/articles/u-s-to-send-aging-attack-planes-to-mideast-and-shift-newer-jets-to-asia-europe-df72da15> (2023)

<b>Units Based on Activation:</b>		
Unit	Date of Arrival	Notes
Canadian (Any) Mech Brigade	No Armor (-1 str) – 25 Days With Armor – 40 days. (one at a time)	20+ days to get in order, <sup>22</sup> With armor (by sealift), 2 days to stage, 3 days to load <sup>23</sup> , and then 10 days to sail
Australian 1 x Aviation Rgmt.	5 days from activation order	Must be transported by C-17 or by allies C-5's.
Taiwan 9 x A-Lvl. Reserve Brig.	1 day <sup>24</sup>	
Taiwan 2 x B-Lvl. Reserve Brig.	3 days from activation order	Assuming it takes 3 days to organize units from the system structure and move out.
Taiwan 22 x C-Lvl. Reserve Brig	1 day to muster <sup>25</sup> , 3-7 days of refresher training <sup>26</sup>	Territorial reserves, so assuming easy to mobilize but hard to prepare.
Taiwan 3 x D-Lvl. Reserve Brig.	3 days from activation order	Assuming it takes 3 days to organize units from the system structure and move out.
Philippine's 7th Marine Brig.	4 days from activation order	Assuming quick reorganization, as it's an already standing unit.
US 1 x 3 <sup>rd</sup> MDTF	2 days from activation order	Coming from Hawaii, these units are light and quick to move.
US 1 x 1 <sup>st</sup> MDTF	2 days from activation order	Coming from Washington, these units are light and quick to move.
US 2 x Airborne BCT	5 days from activation order	1 <sup>st</sup> and 2 <sup>nd</sup> BCT (Airborne), US Army Alaska, (obviously) coming from Alaska
US Atk/Recc Bn.	Ready Day 7, 3 days from activation order	1/52 Atk/Recc Bn, US Army Alaska
U.S. 3 x Striker BCT	Ready Day 14, 7 days from activation order	Coming from Washington
U.S. 1 x Combat Aviation Brig.	Ready Day 14, 7 days from activation order	Coming from Washington
US 1 x Ranger Regiment	1 day from activation order	18-hour alert Rangers
U.S. 1 x Airborne BCT	1 day from activation order	82 <sup>nd</sup> Airborne 18-hour alert BCT
US 1 x Armor BCT	21 days	1 <sup>st</sup> Armored BCT, 3rd Infantry Division. Coming from Georgia, assuming meeting up with equipment on West Coast and going by sealift.
US 1 x Airborne BCT	Ready Day 7, then 2 days from activation order.	82 <sup>nd</sup> Airborne BCT
U.S. 1 x Combat Aviation Brig.	Ready Day 7, then 6 days from activation order.	From 82 <sup>nd</sup> Airborne BCT
US 1 x Airborne BCT	Ready Day 14, then 2 days from activation order.	82 <sup>nd</sup> Airborne BCT
US x 1 MDTF	Ready Day 4, then 7 days from activation order.	1 <sup>st</sup> MDTF (in Washington state)
US x 1 MDTF	Ready Day 4, then 4 days from activation order.	3 <sup>rd</sup> MDTF (in Hawaii)
4 x THAAD Battery	3 Days each (one at a time)	Undeployed THAAD batteries
13 x Patriot Battery	1 Day (2-3 at a time)	US usable Patriot batteries
UK 1 x Infantry Brigade	10 days from order in Brunei	Assuming rapid push to move units, with added airlift from US and/or NATO strategic airlift

<sup>22</sup> <https://warontherocks.com/2024/04/dont-count-on-us-canadas-military-unreadiness/>

<sup>23</sup> FM 55-15. Table 5-2. Desert Storm average ship loading and unloading times, deployment (unit equipment)

<sup>24</sup> The Chinese Invasion Threat, Ian Easton, 2017, pg. 183

<sup>25</sup> The Chinese Invasion Threat, Ian Easton, 2017, pg. 183

<sup>26</sup> The Chinese Invasion Threat, Ian Easton, 2017, pg. 184, I think in reality it will require longer, but it may well be that units are deployed beforehand. "More importantly, mobilization will not occur in a permissive, peacetime environment. Reservists may have to report for duty and participate in refresher training in the midst of intense cyber and missile attacks." - *A Question Of Time: Enhancing Taiwan's Conventional Deterrence Posture*, Michael A. Hunzeker and Alexander Lanoszka, 2018, <https://csps.gmu.edu/wp-content/uploads/2018/11/A-Question-of-Time.pdf>, pg. 96



French Scratch Heavy Mech Brigade	3 Days from Activation order. (one at a time)	Forces already in theater and would need to be airlifted to a centralized place. Given French airlift, 3 days.
French 11 <sup>th</sup> Airborne Brigade	6 Days from Activation order. (one at a time)	Forces out of theater and would need to be airlifted to a centralized place. Given French airlift and the fact it is a larger unit 6 days.
French 27 <sup>th</sup> Mountain Brigade	5 Days from Activation order. (one at a time)	Forces out of theater and would need to be airlifted to a centralized place. Given French airlift and the fact it is a large unit 5 days.
French 9 <sup>th</sup> Marine Infantry Brig.	5 Days from Activation order. (one at a time)	Forces out of theater and would need to be airlifted to a centralized place. Given French airlift and the fact it is a heavier unit (lots of AMX-10) 7 days.

### **French and British CSG's and ESG's coming from Europe**

It took 12 days from the Persian Gulf to Taiwan in the 1996 Taiwan strait crisis, so ~3 weeks to get carrier/ESG into theater if all stops pulled (aircraft/supplies embarked enroute, allies support logistically), or 4 weeks more realistically. The alternative to this is French, British, and NATO allies taking over U.S. 6<sup>th</sup> Fleet's responsibilities to allow them to move to Asia.

## Australia/New Zealand

<b><i>Royal Australian Navy + Royal New Zealand Navy</i></b>		
Unit	Representing	Setup
1 x ESG	3 x Hobart DDG 7 x ANZAC FFG 2 x LHD 1 x LSD 2nd Battalion, Royal Australian Regiment	Reserve
[OPTIONAL UNIT] 1 x SAG (Aus/NZ)	1 x Arleigh Burke DDG (on port visit and seconded) 3 x ANZAC FFG 2 x ANZAC FFG (New Zealand)	Reserve. <b>Setup 3 x Missile</b>
5 x Collins SS	6 x Collins SS, with 1 in refit, and 1 out of commission.	Reserve
<b><i>Royal Australian Air Force</i></b>		
Unit	Representing	
2 x F/A-18 (4 <sup>th</sup> Gen Fighter)	No. 1 Squadron, No. 75 Squadron	Reserve
3 x F-35A (5 <sup>th</sup> Gen Fighter)	No. 3 Squadron, No. 77 Squadron, No. 2 OCU	Reserve
<b><i>Royal Australian Army</i></b>		
Unit	Representing	
As needed	Various	
1 x Aviation Regiment	1 <sup>st</sup> Aviation Regiment, transported by C-17, <sup>27</sup> or allies C-5's	Reserve

<sup>27</sup> <https://www.flightglobal.com/pictures-tiger-gets-aboard-australian-c-17-transport/87511.article>

## Canada

Indeed, on average, only 45 percent of Canada's air force fleet is operational, while the Royal Canadian Navy can operate at 46 percent of its capacity and the army at 54 percent.

<b><i>Royal Canadian Navy</i></b>		
Unit	Representing	Setup
1 x Missile Boats	5 x Halifax Class Frigates	Reserve
2 x Victoria Class SSK	HMCS Victoria (SSK 876), and HMCS Corner Brook (SSK 878), and HMCS Chicoutimi (SSK 879). Assuming one is out due to maintenance	Reserve
<b><i>Royal Canadian Air Force</i></b>		
Unit	Representing	
4 x CF-18 (4 <sup>th</sup> Gen Multirole)	425, 433, 401, 409 Squadrons	Reserve
<b><i>Royal Canadian Army</i></b>		
Unit	Representing	
3 x Mech Brigades	5 <sup>th</sup> CMBG, 1 <sup>st</sup> CMBG, and 2 <sup>nd</sup> CMBG	Reserve

<b><i>In Theater</i></b>		
Unit	Representing	Setup
1 x CSG 2 x F-35 Squadrons	1 x Queen Elizabeth Class Carrier 2 x F-35B Squadrons 2 x Type 45 Destroyer 3 x Type 23 Frigates	Riau Archipelago (3603) <b><u>OR</u></b> Reserve
1 x ESG	1 x Albion Class LPD 1 x Royal Marine Battalion 1 x Bay Class LSD	Riau Archipelago (3603) <b><u>OR</u></b> Reserve - <b>NO MISSILES</b>
1 x Astute Class		Riau Archipelago (3603) <b><u>OR</u></b> Reserve
<b><i>Reserve</i></b>		
1 x Infantry Brigade	2nd Battalion, the Royal Gurkha Rifles (in Brunei) along with Royal Marines, Ranger Regiment, support from SAS, SBS, and other Rapid Reaction Forces	Reinforcement
1 x Typhoon (4 <sup>th</sup> Gen Multirole), 3 x Typhoon (4 <sup>th</sup> Gen Fighter)	No. 121 Expeditionary Air Wing, No. 135 Expeditionary Air Wing, No. 138 Expeditionary Air Wing, No. 140 Expeditionary Air Wing	Reinforcement
1 x Astute Class		Reinforcement

# France

<i><b>In Theater</b></i>		
Unit	Representing	Setup
1 x CSG (Charles de Gaulle) 2 x Rafale Squadron (4 <sup>th</sup> Gen Multirole)	Charles de Gaulle 2 x Rafale Squadron (4 <sup>th</sup> Gen Multirole) Screen of Various	Riau Archipelago (3603) <u><b>OR</b></u> Reserve
1 x ESG	1 x Mistral Class LHD 1 x Troupes de Marine Brigade Screen of Various	Riau Archipelago (3603) <u><b>OR</b></u> Reserve
1 x Rubis Class (Modern Nuke Sub)		Riau Archipelago (3603) <u><b>OR</b></u> Reserve
<i><b>Reserve</b></i>		
Unit	Representing	Setup
1 x Mirage 2000-5F Squadron (4 <sup>th</sup> Gen Multirole), 1 x Mirage 2000D Squadron (4th Gen Tac Bomber), 2 x Rafale Squadron (4 <sup>th</sup> Gen Multirole)		Reserve
Scratch Pacific Mech Brigade	Combined force of Gulf + Pacific units: 2e RPIMa Regiment + 5 <sup>th</sup> Regiment of Cuirassier + 5 <sup>th</sup> Regiment Outre Mer	Reserve
11 <sup>th</sup> Airborne Brigade		Reserve
27 <sup>th</sup> Mountain Brigade		Reserve
9th Marine Infantry Brigade		Reserve

# China

Chinese naval units are assumed to be at ~70% availability, but are grouped into their respective units for inclusion if you wish – these are marked as [Not Available]. Missile Boat Squadrons are rounded up as they are smaller ships that are less complicated to maintain and rapidly get ready for combat, and missing one or two boats due to maintenance is less important than with heavier surface combatants. Old submarines have not been included as they are of such low effectiveness in modern combat<sup>28</sup> that their presence has less effect than a die roll, and can therefore be abstracted as part of the die roll.

<b><i>PLAN (Northern Theater Navy)</i></b>		
Unit	Representing	Setup
CSG 2 x J-15 Squadron (4 <sup>th</sup> Gen Multirole)	1 x Liaoning 4 x Destroyers 3 x Frigates	Minami Kojima
2 x SAG	Each: <ul style="list-style-type: none"> <li>3 x Destroyers</li> <li>4 x Frigates</li> <li>3 x Corvettes</li> </ul>	1 in Qingdao, 1 in Dalia (0411)
[Not Available] 1 x SAG	Of: <ul style="list-style-type: none"> <li>1 x Destroyer</li> <li>1 x Frigate</li> <li>6 x Corvettes</li> </ul>	Qingdao. <b>1 MISSILE</b>
2 x Missile Boat Squadron [Not Available] 1 x Missile Boat Squadron	In 3 groups of 5: 15 x Missile Patrol Craft	Qingdao
4 x SSN, 12 x SS	Assuming 4 SS and 1 SSN are in refit, 2 x SSN unavaiable	1 SSN and 3 SS in Qingdao, 4 SS in Dalia (0411)  1 SSN at Minami Kojima, and 1 at hex east of Qingdao. 1 SSN, 4 SS in reinforcements.
1 x JH-7 Squadron (4 <sup>th</sup> Gen Tac Bomber), 1 x J-8 (3 <sup>rd</sup> Generation Fighter)	5th Aviation Brigade (PLAN) – Note Chinse regiments are equivalent to overstrength US squadrons, so these are marked as squadrons, but in a Chinese ORBAT would be called a regiment. <sup>29</sup>	ECS Air Theater
2 x Marine Brigade	5 <sup>th</sup> and 6 <sup>th</sup> Marine Brigade + elements of PLANMC 7 <sup>th</sup> Aviation Brigade + elements of the PLANMC SF Brigade	Qingdao*
<b><i>PLAN (East Theater Navy)</i></b>		
Unit	Representing	Setup
1 x ESG	1 x LPD, 3 x LHD, (3 of the 4 will be available due to readiness) Screen of:	1 at Minami Kojima

<sup>28</sup> *The U.S.-China Military Scorecard Forces, Geography, and the Evolving Balance of Power*, 1996–2017, RAND, Heginbotham et. al., pg. 185, 192-193

<sup>29</sup> *PLA Aerospace Power: A Primer on Trends in China's Military Air, Space, and Missile Forces 2nd Edition* (2015). pg.18 states 1 regiment = 18-24 aircraft., Confusingly *PLA Aerospace Power: A Primer on Trends in China's Military Air, Space, and Missile Forces 3rd Edition* (2022) on pg. 22 states that “Regiments and aviation brigades are typically composed of between 20 and 40 aircraft.” Thus, I am assuming that Regiments are on the smaller side towards 20 and Brigades on the higher side towards 40. As corelary Evidence aligns with IISS Military Balance 2024 #’s as well.

	3 x Destroyers 4 x Frigates 4 x Corvettes	
3 x SAG	3 x Destroyers 4 x Frigates 4 x Corvettes	Ningbo
[Not Available] 1 x SAG	1 x Destroyers 7 x Frigates	Ningbo
5 x Missile Boat Squadron [Not Available] 2 x Missile Boat Squadron	7 groups of 6 with some left over 38 x Missile Patrol Craft 8 x Corvettes	Ningbo
18 x SS	Assuming 6 SS so bad they don't work (assuming all but 1 of the unknown are old ones), and 7 SS in maintenance.	9 in Ningbo. 1 in 1312, 1 in 1511. 7 SS in reinforcements
1 x J-10 Squadron (4 <sup>th</sup> Gen Fighter), 1 x Su-30 Squadron (4 <sup>th</sup> Gen Fighter)	4th Aviation Brigade (PLAN)	ECS Air Theater
2 x JH-7 Squadron (4 <sup>th</sup> Gen Tac Bomber)	6th Aviation Brigade (PLAN)	ECS Air Theater
2 x Marine Brigade	3 <sup>rd</sup> and 4 <sup>th</sup> Marine Brigade + elements of PLANMC 7 <sup>th</sup> Aviation Brigade + elements of the PLANMC SF Brigade	Quanzhou (1709), Shantou (1908)*
<b><i>PLAN (South Theater Navy)</i></b>		
Unit	Representing	Setup
CSG 2 x J-15 Squadron (4 <sup>th</sup> Gen Multirole)	1 x Shandong 4 x Destroyers 4 x Frigates	Paratas Island
2 x ESG	2 of 1 x LPD, 2 x LHD Each with a screen of: 3 x Destroyers 4 x Frigates 4 x Corvettes	1 in Zhanjiang, 1 at Paratas Island
[Not Available] 1 x SAG	3 x Frigates 6 x Corvettes	Zhanjiang
3 x Missile Boat Squadron	In 3 groups of 6 with one left over. 5 x Corvettes 14 x Missile Patrol Craft	1 in Zhanjiang, 2 in Sanya
2 x SSN, 8 x SS	Assuming 4 are being worked on.	1 in Sanya (2303), and 2 in 2006 (Chuanshan Islands), 1 SSN at Paratas Island, and 1 SS and SSN in SCS off of Spratlys. 4 SS in reinforcements.
3 x J-11 (4 <sup>th</sup> Gen Fighter), 1 x J-7 (3 <sup>rd</sup> Gen Multirole)	2 Unknown Air Brigades	SCS Air Sector
1 x H-6 Flight	Unknown Air Regiment able to carry ASHM, 1 Regiment can carry 100 missiles so 1 flight.	SCS Air Sector

2 x Marine Brigade	1 <sup>st</sup> and 2 <sup>nd</sup> Marine Brigade + elements of PLANMC 7 <sup>th</sup> Aviation Brigade + elements of the PLANMC SF Brigade	Zhanjiang*
<b>PLAAF<sup>30</sup></b>		
Unit	Representing	Setup
6 x J-7 Squadron (3 <sup>rd</sup> Gen Fighter)	3 of 15 Brigades (1/5 <sup>th</sup> ) are known to be training brigades and excluded. Another 3 is assumed. I assume that J-7 squadrons would take over from more advanced assets elsewhere to allow them to transfer to the East. Thus 40% of J-7 squadrons are not available to deploy to the east. – 104 airframes available out of 289.	1 in ECS, 1 in Taiwan Air Theater, 4 in Reserve
1 x J-8 Squadron (3 <sup>rd</sup> Gen Fighter)	I assume that J-8 squadrons would take over from more advanced assets elsewhere to allow them to transfer to the East. Thus 40% of J-7 squadrons are not available. 24 of 50 airframes available.	1 in Taiwan Air Theater
7 x J-11/Su-27UBK Flanker Squadron (4 <sup>th</sup> Gen Fighter)	Assumes that 20% of squadrons are tied down elsewhere. 76 of 95 J-11 airframes available, and 26 of 32 Flanker airframes available.	3 in ECS, 2 in SCS, 2 in Taiwan Air Theater
20 x J-10 Squadron (4 <sup>th</sup> Gen Multirole)	Assume 3 training brigades (3 out of 13) are not available. Assumes that 20% of squadrons are tied down elsewhere. 362 of 588 airframes available.	7 in ECS, 7 in SCS, 7 in Taiwan Air Theater
24 x J-11B/16/Su-27/30/35 Squadron (4 <sup>th</sup> Gen Fighter)	Assumes that 20% of squadrons are tied down elsewhere. 440 of 551 airframes available.	7 in ECS, 7 in SCS, 7 in Taiwan Air Theater, 3 in the Spratlys
11 x J-20 Squadron (5 <sup>th</sup> Gen Fighter)	Assumes full availability of J-20 Squadrons.	4 in ECS Air Theater, 4 in Taiwan Air Theater, 3 in SCS Air Theater
9 x JH-7 Squadron (4 <sup>th</sup> Gen Tac Bomber)	Assumes full availability of JH-7 Squadrons.	3 in ECS, 4 in SCS Air Theater, 1 in the Spratlys
6 x Airborne Brigade	3 light motorized, 2 mechanized, and 1 air assault. 1 special operations brigade is assumed to be dispersed for various duties.	Continental China (1103)*
<b>PLAA/PLAGF*</b>		
Unit	Representing	Setup
6 x Combined Arms Brigades (Amphibious)		1 per: 1111, 1211. 2 in 1709, 2 in 1906*
24 x Combined Arms Brigades	While there are 78 CABs in China, in the first month or so most of these wouldn't be able to activate for combat, so I draw the number 24 from the number of those in the East + Southern	2303, 1903, 1808, 1806, 1709, 1610, 1309, 1210, 1110, 1109, 1105, 1009, 0908, 0808, 0806,

<sup>30</sup> As there are not squadron specific breakdowns, as I use total numbers of airframes\*70% readiness to get a crude approximation of the number of squadrons available for use in the conflict. This is as the Brigade/Regiment switch has led to issues with identification computed by difficulty assessing squadron types as China modernizes exact squadrons.



	theaters as this represents a reasonable number that could be activated/moved for combat.	0709, 0708, 0707, 610, (x2) 0408, 0405, 0210, 0208. Reasoning for set up <sup>31</sup> *
2 x Air Assault Brigades		1 in Ningbo, 1 in Reserve*
13 x Army Aviation Brigades		1504, 1110, 1009, (x2) 806, 0707, 0506, 212, (x5) in Reserve*
15 x Artillery Brigades		1906, 1110, 0908, 0805, 0707, 0307, 0306, 0109, (x7) in Reserve*

\* PLA units may be set up on the PLA units sheets instead.

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<sup>31</sup> Locations are chosen thusly: units on the Russian-Korean border are assumed to not be available, as are units from deeper in China. 4 Armor units from Beijing are assumed to be the “political protection force” and are not available.

# Taiwan

Taiwanese naval units are assumed to be at ~70% availability, but are grouped into their respective units for inclusion if you wish – these are marked as [Not Available]. Missile Boat Squadrons are rounded up as they are smaller ships that are less complicated to maintain and rapidly get ready for combat, and missing one or two boats due to maintenance is less important than with heavier surface combatants. Submarines are assumed to be at 100% readiness for the Taiwanese players benefit.

<b><i>Taiwanese Navy</i><sup>32</sup></b>		
Unit	Representing	Setup <sup>33</sup>
1 x ESG	1 x LPD 1 x LSD 9 x LST (if needed) 4 x Destroyers 3 x Frigates 1 Marine Battalion	Keelung
5 x Missile Boat Squadrons [Not Available] 5 x Missile Boat Squadrons	In groups of 6 <ul style="list-style-type: none"> <li>• 12 x Missile Patrol Ship (Corvette)</li> <li>• 31 x Missile Boats</li> <li>• 2 x Corvettes</li> <li>• 15 x Frigates (as most don't have VLS, they would be employed in similar missile boat hit and runs when engaging the enemy)</li> </ul>	3 in Keelung, 2 in Su'ao
1 x Missile Boat Squadron	8 x Anping-Class Coast Guard Cutters fitted with ASHM (assumed 2-3 are not available due to maintenance at any given time)	Reserve
2 x SSK	2 x SSK	Kaohsiung
<b><i>Taiwanese Army</i></b>		
Unit	Representing	Setup <sup>34</sup>
4 x Armored Brigade	542nd Armored Brigade, 584th Armored Brigade, 586th Armored Brigade, 564th Armored Brigade	See Taiwan Setup Sheet
3 x Mech Infantry Brigade	269th Mechanized Infantry Brigade, 234th Mechanized Infantry Brigade, 333rd Mechanized Infantry Brigade	See Taiwan Setup Sheet
6 x Infantry Brigade	153rd Infantry Brigade, 206th Infantry Brigade, 302nd Infantry Brigade, 104th Infantry Brigade, 257th Infantry Brigade, 203rd Infantry Brigade (3.2)	See Taiwan Setup Sheet
2 x Air Cav Brigade	601 <sup>st</sup> Air Cavalry Brigade, 602 <sup>nd</sup> Air Cavalry Brigade	See Taiwan Setup Sheet
1 x MP Brigade	202 <sup>nd</sup> Military Police Command	See Taiwan Setup Sheet
3 x Artillery Units	21 <sup>st</sup> Artillery Command, 626th Artillery Group, 624 <sup>th</sup> Group	See Taiwan Setup Sheet
3 x MLRS Battalion	MLRS Battalion of the 21 <sup>st</sup> Artillery Command, 626th Artillery Group, and 624 <sup>th</sup> Group	See Taiwan Setup Sheet
9 x A-Level Reserve Units	A-Level Reserve Units	See Taiwan Setup Sheet

<sup>32</sup>Readiness rate taken from *The Chinese Invasion Threat* by Ian Easton (2019), pg. 193

<sup>33</sup>Taken from *The Chinese Invasion Threat* by Ian Easton (2019), Appendix II

<sup>34</sup>Taken from *The Chinese Invasion Threat* by Ian Easton (2019), Appendix II

2? x B-Level Reserve Units	B-Level Reserve Units	Reserve
22 x C-Level Reserve Units	C-Level Reserve Units	See Taiwan Setup Sheet
2-3 x D-Level Reserve Units	D-Level Reserve Units	Reserve
2 x Marine Brigade	66 <sup>th</sup> Marine Brigade, 99 <sup>th</sup> Marine Brigade	See Taiwan Setup Sheet
<b><i>Taiwanese Air Force</i></b>		
Unit	Representing	Setup
3 x Mirage 2000-5 Squadron (4 <sup>th</sup> Gen Multirole)	41 <sup>st</sup> Tactical Fighter Group, 42 <sup>nd</sup> Tactical Fighter Group, 48 <sup>th</sup> Training Group	Taiwan Air Sector
5 x F-CK-1 IDF Squadron (4 <sup>th</sup> Gen Multirole)	1 <sup>st</sup> Tactical Fighter Group, 3 <sup>rd</sup> Tactical Fighter Group, 9 <sup>th</sup> Tactical Fighter Group, 7 <sup>th</sup> Tactical Fighter Group, 28 <sup>th</sup> Tactical Fighter Group	Taiwan Air Sector
4 x F-16 A/B Squadron (4 <sup>th</sup> Gen Multirole)	12 <sup>th</sup> Tactical Reconnaissance Group <sup>35</sup> , 17 <sup>th</sup> Tactical Fighter Group, 26 <sup>th</sup> Tactical Fighter, 27 <sup>th</sup> Tactical Fighter Group	Taiwan Air Sector
3 x F-16V Squadron (4 <sup>th</sup> Gen Multirole)	21 <sup>st</sup> Tactical Fighter Group, 22 <sup>nd</sup> Tactical Fighter Group, 23 <sup>rd</sup> Tactical Fighter Group	Taiwan Air Sector
3 x F-5E Squadron (3 <sup>rd</sup> Gen Fighter)	44 <sup>th</sup> Flight Training Squadron, 45 <sup>th</sup> Flight Training Squadron, 46 <sup>th</sup> Flight Training Squadron	Taiwan Air Sector

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<sup>35</sup> This is due to the fact that the 12<sup>th</sup> Tactical Reconnaissance Group fly's RF-5E, F-5F, F-16A Block 20, F-16B Block 20 (so is less capable) and is not dedicated to air superiority missions. I make them a F-16 A/B unit as with the phase out of F-16 A/B's in the 21<sup>st</sup>, 22<sup>nd</sup>, and 23<sup>rd</sup>, I think it likely some of their jets are being used to replace the F-5's that Taiwan is trying to get divest itself of.

# Japan

<b>JMSDF</b>		
Unit	Representing	Setup
1 x ESG	Either JS Izumo (Helicopter Carrier) or JS Kaga 1 or 2 x Hyuga-Cass Helicopter Carrier 4 x Destroyers 1 x Destroyer Escort	Yokosuka or Kure
1 x SAG	5 x Destroyers 2 x Destroyer Escort	Yokosuka
1 x SAG	5 x Destroyers 1 x Destroyer Escort	Kure
[Not Available] 2 x SAG	2 made of up (each): 4 or 5 x Destroyers 1 x Destroyer Escort	Any port
9 x SSK	10 x SSK (Submarine Flotilla 1), of which 1 on patrol, 3 in refit, 1 out of commission.	1 in ECS, 3 as reinforcements, rest in Kure
8 x SSK	8 x SSK (Submarine Flotilla 2), of which 1 on patrol, 3 in refit, 1 out of commission.	1 in ECS, 3 as reinforcements, rest in Yokosuka
<b>JASDF</b>		
Unit	Representing	Setup
2 x F-35 Squadron (5 <sup>th</sup> Gen Multirole)	301SQ and 302SQ	Japan Air Sector
5 x F-15J/DJ (4 <sup>th</sup> Gen Fighter) <sup>36</sup>	201SQ, 203SQ, 303SQ, 306SQ, 305SQ	Japan Air Sector
3 x F-2A/B (4 <sup>th</sup> Gen Multirole)	3SQ, 6SQ, 8SQ	Japan Air Sector
2 x F-15J/DJ (4 <sup>th</sup> Gen Fighter)	204SQ, 304SQ	Okinawa Air Sector
<b>JGSDF</b>		
Unit	Representing	Setup
1 x Marine Brigade	Amphibious Rapid Deployment Brigade	Sasebo
1 x Airborne Brigade	1st Airborne Brigade	Tokyo
1 x Air Cav Brigade	12th Brigade	0424

<sup>36</sup> For my rating of them as 4<sup>th</sup> Gen Multitroles see *Japan's F-15 Upgrade Adds Strike Capability*, Bradley Perett, Aviation Week and Space Technology, Jan 30-Feb 12, 2023, pg. 20-21

# United States

For East Coast and Pearl units I assume sufficient F-35B squadrons for all Marine Corps assets. Note that MRF-D is not represented due to the fact it is a rotational force drawing from I MEF, and including it makes for a whole headache while making no real change to reinforcements.

<b><i>US Navy (East Coast and Pearl Harbor)</i></b>		
Unit	Representing	Setup
“CSG 1” 1 x CSG w/ 3 x F/A-18 (4 <sup>th</sup> Gen Multirole), 1 x F-35 Squadrons	USS Carl Vinson 2 x Cruiser 2 x Destroyer 3 x F/A-18, 1 x F-35 Squadrons	Reserve
“CSG 3” 1 x CSG w/ 3 x F/A-18 (4 <sup>th</sup> Gen Multirole), 1 x F-35 Squadrons	USS Abraham Lincoln 2 x Cruiser 2 x Destroyer 3 x F/A-18, 1 x F-35 Squadrons	Reserve
“CSG 9” 1 x CSG w/ 4 x F/A-18 Squadrons (4 <sup>th</sup> Gen Multirole)	USS Theodore Roosevelt 2 x Cruiser 2 x Destroyer 4 x F/A-18 Squadrons	Reserve
“CSG 11” 1 x CSG w/ 4 x F/A-18 Squadrons (4 <sup>th</sup> Gen Multirole)	USS Nimitz 1 x Cruiser 3 x Destroyer 4 x F/A-18 Squadrons	Reserve
[50%] <sup>37</sup> ESG w/ F-35B Squadron	1 x LHD 1 x LPD 1 x LSD 4 x Destroyer Marine Battalion (11 <sup>th</sup> MEU)	Reserve
[50%] ESG w/ F-35B Squadron	1 x LHD 1 x LPD 1 x LSD 1 x Zumwalt Class 4 x Destroyer Marine Battalion (13 <sup>th</sup> MEU) 1 x F-35B Squadron	Reserve
[50%] ESG w/ F-35B Squadron	1 x LHD 1 x LPD 1 x LSD 1 x Zumwalt Class 4 x Destroyer Marine Battalion (15 <sup>th</sup> MEU) 1 x F-35B Squadron	Reserve
[50%] ESG w/ F-35B Squadron	1 x LHA 1 x LPD 1 x LSD 1 x Cruiser 3 x Destroyer 1 x LCS	Reserve

<sup>37</sup> <https://www.defensenews.com/naval/2022/10/04/us-marines-warn-against-navys-fy24-decommission-scheme/> (Oct. 2022), 45% of the US amphib fleet is ready (rounded up to 50% to be nice to the US player and to have to avoid using percentile dice or a d20 (which is unintuitive compared to a d10))

	Marine Battalion (3rd Marine Littoral Regiment) 1 x F-35B Squadron	
[50%] Lightning Carrier CSG	1 x LHD 2 x F-35B Squadrons <sup>38</sup> 5 x Destroyer	Reserve
East Coast Others	1 x LPD  LCSRON - 13 x LCS, of which estimate 50% available (6-7).	LPD = Maintenance/Not available  LCSRON = distributed among other East Coast units as needed to cover maintenance /not available units or for MCM duties.
[60% Readiness] <sup>39</sup> 7 x Los Angeles SSN, 6 x Virginia SSN	Submarine Squadron 1 and 7. 9 x Los Angeles SSN, 6 x Virginia SSN. Of which 4 Los Angeles are in refit, and 1 is out of commission.	Reserve
[60% Readiness] <sup>40</sup> 7 x Los Angeles SSN, 2 x Ohio SSGN, 3 x Seawolf SSN	Submarine Squadron 19 + Submarine Squadron 11 + Submarine Development Squadron 5. Of which 2 Los Angeles and 1 Seawolf are in refit, and 1 Los Angeles is out of commission.	Reserve
<b><i>US Navy (In Theater)</i></b>		
Unit	Representing	Setup
“CSG 5” 1 x CSG w/ 4 x F/A-18 Squadrons (4 <sup>th</sup> Gen Multirole)	USS Ronald Reagan 2 x Cruiser 2 x Destroyer 4 x F/A-18 Squadrons	Yokosuka
ESG w/ 1 x F-35 Squadron	1 x LHA 1 x LPD 1 x LSD 1 x Cruiser 2 x Destroyer 1 x F-35B Squadron from 1 <sup>st</sup> Marine Aircraft Wing 1 Marine Battalion (31 <sup>st</sup> MEU)	Okinawa. <b>3 MISSILES</b>
ESG	1 x LPD 1 x LSD 3 x Destroyer 1 Marine Battalion (Scratch unit from 3 <sup>rd</sup> Marine Division, 4th Marine Regiment)	Sasebo. <b>3 MISSILES</b>
5 x Los Angeles SSN	Submarine Squadron 15 4 x Los Angeles SSN	2 at Yokosuka, 3 in Reserve (Guam) <sup>41</sup>
<b><i>US Marine Corps</i></b>		
Unit	Representing	Setup

<sup>38</sup> <https://www.thedrive.com/the-war-zone/45144/dispatch-from-onboard-the-marines-first-f-35b-packed-lightning-carrier> (2022). This states 20 F-35B, but in wartime I suspect they would squeeze a few more on (or extra replacement parts), so 2 x Squadrons of 12 each is the closest to the 20 F-35's stated.

<sup>39</sup> As per source: <https://news.usni.org/2022/09/21/navsea-navy-struggling-to-get-attack-subs-out-of-repairs-on-time-as-demand-increases> (2022), 18 of 50 submarines in the US fleet were in maintenance, so 60% readiness is estimated

<sup>40</sup> As per source: <https://news.usni.org/2022/09/21/navsea-navy-struggling-to-get-attack-subs-out-of-repairs-on-time-as-demand-increases> (2022), 18 of 50 submarines in the US fleet were in maintenance, so 60% readiness is estimated

<sup>41</sup> Given that these 2 are coming from Guam (e.g. forward deployed, they are assumed to be operational)

1 x F-35 B Squadron	Unembarked units of 1 <sup>st</sup> Marine Aircraft Wing	Any Japanese air sector
1 x Understrength Marine Brigade	3 <sup>rd</sup> Marine Division of: 3rd Reconnaissance Battalion 12th Marine Regiment (Artillery Unit) 4th Marine Regiment (minus 1 battalion) Scratch units	Okinawa
<b>USAF</b>		
Unit	Representing	Setup
3 x F-16C/D Squadron (4 <sup>th</sup> Gen Multirole), A-10C (4th Gen Ground Attack)	8th Fighter Wing, 51st FW	South Korea
2 x F-16C/D Squadron (4 <sup>th</sup> Gen Multirole), 1 x F-35 Squadron (5 <sup>th</sup> Gen Fighter)	18th Wing	Ryukyu Air Sector
2 x F-16C/D Squadron (4 <sup>th</sup> Gen Multirole)	35th Fighter Wing	Japanese Air Sector
1 x F-22A Squadron (5 <sup>th</sup> Gen Fighter), <sup>42</sup> 1 x F-35 (5 <sup>th</sup> Gen Fighter), 1x F-16C/D (4 <sup>th</sup> Gen Multirole)	3rd Wing, 354th FW	Reinforcement
1 x F-22A (5 <sup>th</sup> Gen Fighter)	15th Wing	Reinforcement
7 x Flights of B-52	Flight size based around carrying 100 missiles. B-52's can carry 20 so a flight = 5 aircraft, assuming that 20% are needed elsewhere, so 36 available aircraft/5 = 7 flights B-1's can carry 24, B52's 20, B2's 16, HK-6's can carry 6 YJ-12	Bomber Box
5 x Flights of B-1	Flight size based around carrying 100 missiles. B-1's can carry 24 so a flight = 4 aircraft, so 24 available aircraft/5 = 5 flights	Bomber Box
2 x Flights of B-2	Flight size based around carrying 100 missiles. B-1's can carry 16 so a flight = 6 aircraft, so 10.5 available aircraft/6 = 2 flights	Bomber Box
<b>USAF Air Combat Command</b>		
Unit	Representing	Setup
2 x F-22 Squadron (5 <sup>th</sup> Gen Fighter)	1st Fighter Wing - JB Langley-Eustis, Va.	Reinforcement
2 x F-15E Squadrons (4 <sup>th</sup> Gen Multirole)	4th Fighter Wing Seymour - Johnson AFB, N.C	Reinforcement
3 x F-16CM Squadrons (4 <sup>th</sup> Gen Multirole)	20th Fighter Wing Shaw - AFB, S.C	Reinforcement
2 x A-10C Squadrons (4th Gen Ground Attack)	23rd Wing - Moody AFB, Ga.	Reinforcement
1 x A-10C Squadron (4th Gen Ground Attack)	355th Wing - Davis-Monthan AFB, Ariz.	Reinforcement
2 x F-15E Squadrons (4 <sup>th</sup> Gen Multirole)	366th Fighter Wing - Mountain Home AFB, Idaho	Reinforcement

<sup>42</sup> While F-22's can fly strike missions (<https://www.military.com/defensetech/2017/11/20/the-us-just-flew-stealth-fighter-to-bomb-drug-labs-in-afghanistan>), they are designed for air-to-air missions and would likely leave the strike missions requiring stealth to the F-35 which is better equipped for the role. I believe that the number of F-22 strike missions that would likely occur is so low that it can be abstracted into other units strikes/SEAD missions without issue.

3 x F-35A Squadrons (5 <sup>th</sup> Gen Fighter)	388th Fighter Wing - Hill AFB, Utah	Reinforcement
<b><i>US Army</i></b>		
Unit	Representing	Setup
2 x MDTF	1 <sup>st</sup> and 3 <sup>rd</sup> Multi Domain Task Forces	Reinforcements
1 x Ranger Regiment	18-hour standby Ranger Regiment	Reinforcements
1 x Stryker BCT	2 <sup>nd</sup> Stryker BCT, 2nd Infantry Division	South Korea
2 x MLRS Battalion	Units of 210 <sup>th</sup> Field Artillery Regiment (6th Battalion, 37th Field Artillery and 1st Battalion, 38th Field Artillery Regiment)	South Korea
1 x Combat Aviation Brigade	2nd Combat Aviation Brigade, 2nd Infantry Division	South Korea
3 x Striker BCT	1 <sup>st</sup> , 2 <sup>nd</sup> , 91 <sup>st</sup> Stryker BCT, 7 <sup>th</sup> Infantry Division	Reinforcements
1 x Combat Aviation Brigade	2nd Combat Aviation Brigade, 7th Infantry Division	Reinforcements
2 x Airborne BCT	1 <sup>st</sup> and 2 <sup>nd</sup> IBCT (Airborne), US Army Alaska	Reinforcements
1 x Airborne BCT	82 <sup>nd</sup> Airborne 18-hour standby BCT	Reinforcements
2 x Airborne BCT	82 <sup>nd</sup> Airborne additional BCT's	Reinforcements
1 x Combat Aviation Brigade	82 <sup>nd</sup> Airborne Combat Aviation Brigade	Reinforcements
1 x Armor BCT	1 <sup>st</sup> Armored BCT, 3rd Infantry Division	Reinforcements
4 x THADD Battery	Deployed and CONUS undeployed THADD (assuming 2 of the 7 total are down for maintenance)	1 in South Korea, 1 in Guam, 2 in Reinforcements
13 x Patriot Battery	Total 33 CONUS batteries <sup>43</sup> Assume 20% are out for maintenance, 30% need to be reserved for use elsewhere (or deployed with US units), and 10% still use PAC-2 = 13 deployable batteries. <sup>44</sup>	Reinforcements

<sup>43</sup> <https://media.defense.gov/2019/Jan/17/2002080666/-1/-1/1/2019-MISSILE-DEFENSE-REVIEW.PDF> (2019) pg. 50

<sup>44</sup> All %'s here are pure guesses.



# Philippines

Phillipines naval units are assumed to be at ~70% availability, but are grouped into their respective units for inclusion if you wish – these are marked as [Not Available]. Missile Boat Squadrons are rounded up as they are smaller ships that are less complicated to maintain and rapidly get ready for combat, and missing one or two boats due to maintenance is less important than with heavier surface combatants

Philippine Navy		
Unit	Representing	Setup
1 x ESG	2 x LPD 3 x LST 2 x Frigates 1 x Corvette ? x Gun Armed Warships Marine Battalion	Luzon. <b>NO MISSILES</b>
1 x Missile Boat Squadron	10 x Patrol boat with ATGM <sup>45</sup>	1 in San Fernando
Philippine Air Force		
Unit	Representing	Setup
1 x KAI FA-50 Golden Eagle (Functionally 3 <sup>rd</sup> Gen Multirole)	12 x KAI FA-50 Golden Eagle	Any Philippine air sector
1 x Combined (Functionally 3 <sup>rd</sup> Gen Ground Attack)	Mix of 2 understrength light attack aircraft squadrons	Any Philippine air sector
Philippine Marine Corps		
Unit	Representing	Setup
5 x Marine Brigade	1st Marine Brigade, 2nd Marine Brigade, 3rd Marine Brigade, 4th Marine Brigade, 7th Marine Brigade (Reserve)	1 <sup>st</sup> in 3114, 2 <sup>nd</sup> in 3313, 3 <sup>rd</sup> in 3011, 4 <sup>th</sup> in 2212, 7th Marine Brig. (Reserve) in Reserve
Philippine Army		
1 x Mech Infantry Brigade	1st Brigade Combat Team	In 2512
1 x Army Artillery Regiment	Army Artillery Regiment (Elements)	In 2512

<sup>45</sup> This is a very optimistic assumption about the effectiveness of these boats.

# Vietnam

Vietnam Navy		
Unit	Representing	Setup
5 x Missile Boat Squadrons	In groups of 6 4 x Guided Missile Frigates (Gepard Class) 3 x ASW Frigates (Petya-II/-III Class) 2 x ASW Corvettes (Pohang Class) 21 x Missile Boats (Mixed classes)	2 in Hai Phong, 1 in Da Nang, 2 in Nha Trang
6 x SSK (Modern SSK)		2 in Hai Phong, 2 in Nha Trang, 2 in Da Nang
2 x Marine Brigade	101 <sup>st</sup> Naval Infantry Brigade, 147 <sup>th</sup> Naval Infantry Brigade	1 in Da Nang, 1 in Nha Trang
Vietnam Air Force		
Unit	Representing <sup>46</sup>	Setup
2 x Su-22M4/UM3K (3rd Gen Multirole)	931st Fighter Regiment, 921st Fighter Regiment, 929th Fighter-Bomber Regiment, 937th Fighter-Bomber Regiment	Vietnam Air Sector
2 x Su-30MK2 (4 <sup>th</sup> Gen Fighter)	923rd Fighter-bomber Regiment, 927th Fighter Regiment, 935th Fighter Regiment	Vietnam Air Sector
1 x Su-27SK/UBK (4 <sup>th</sup> Gen Fighter)	940th Fighter/Air Training Regiment	Vietnam Air Sector
Vietnam Army		
Unit	Representing	Setup
1 x Airborne Brigade	Grouped Commando Units? – I can't remember why this unit is here and can't find anything in my notes	Hue

## Missile Inventory

Weapon	Platform	Range	Number
Short Range Air-to-Air Missile	Aircraft		3,075 <sup>47</sup>
Beyond Visual Range Air-to-Air Missile	Aircraft		320+ <sup>48</sup>
Kh-29	Aircraft	30 km	100 <sup>49</sup>
Kh-31	Aircraft	110 km (P variant)	100 <sup>50</sup>
Kh-59	Aircraft	200 km	200 <sup>51</sup>
SUCD (B and C) <sup>52</sup>	TEL		24 <sup>53</sup>
Costal Defense Missiles	Shore based Launchers	Varies, 50-750km	~100 <sup>54</sup>

<sup>46</sup> Utilizing total numbers of combat aircraft instead of administrative breakdown as it appears that many Squadrons are flying low numbers of aircraft and for game representation need to be aggregated.

<sup>47</sup> [https://en.wikipedia.org/wiki/Vietnam\\_People%27s\\_Air\\_Force](https://en.wikipedia.org/wiki/Vietnam_People%27s_Air_Force) – Accessed 02/03/22

<sup>48</sup> [https://en.wikipedia.org/wiki/Vietnam\\_People%27s\\_Air\\_Force](https://en.wikipedia.org/wiki/Vietnam_People%27s_Air_Force) – Accessed 02/03/22

<sup>49</sup> [https://en.wikipedia.org/wiki/Vietnam\\_People%27s\\_Air\\_Force](https://en.wikipedia.org/wiki/Vietnam_People%27s_Air_Force) – Accessed 02/03/22

<sup>50</sup> [https://en.wikipedia.org/wiki/Vietnam\\_People%27s\\_Air\\_Force](https://en.wikipedia.org/wiki/Vietnam_People%27s_Air_Force) – Accessed 02/03/22

<sup>51</sup> [https://en.wikipedia.org/wiki/Vietnam\\_People%27s\\_Air\\_Force](https://en.wikipedia.org/wiki/Vietnam_People%27s_Air_Force) – Accessed 02/03/22

<sup>52</sup> <https://www.armscontrol.org/factsheets/missiles#3> (2017)

<sup>53</sup> Number as given by IISS Military Balance 2017, 338–9. but I cannot access it to confirm

<sup>54</sup> Educated guess, based on data from [https://en.wikipedia.org/wiki/List\\_of\\_equipment\\_of\\_the\\_Vietnam\\_People%27s\\_Navy](https://en.wikipedia.org/wiki/List_of_equipment_of_the_Vietnam_People%27s_Navy) – Accessed 02/03/22

## Calculating Land Unit Combat Power<sup>55</sup>

Note that as not all unit types are covered in the source document, so in those cases the most comparable unit has been used instead. For example many nations have ADA Battalions, which are therefore typically represented by ADA Bn (Avenger) as this is the closest comparable unit, even those most countries do not field ADA Battalions based around Avengers.

From the original numbers, I treat the effectiveness of helicopters as 1/3<sup>rd</sup> of the given value.<sup>56</sup>

Note that MP units are not counted in ORBATs currently, but if you really care, a MP Platoon is rated as equivalent to an infantry weapons company (in terms of combat power)<sup>57</sup>

### Taiwan Sub Unit Info

Unit	Force Equivalent	Note
Mech Infantry (Modern Infantry and ATGM, 60's-2000's APC)	0.71	As Infantry Bn (M113)
Mech Inf Battalion (Modern Infantry and ATGM, Mix Modern and Old APC)	0.855	As average of Infantry Bn (M2) and Infantry Bn (M113)
Armored Cav Battalion (Modern Infantry and ATGM, Mix Modern and Old APC, Gen 2.5 Tanks)	0.8366	As average of Infantry Bn (M2), Infantry Bn (M113), Tank Bn (MIB 40xT64 / T72), and Tank Bn (MIB 40xT80)
Tank Battalion (Gen 2.5 Tanks)	0.945	Average of Tank Bn (MIB 40xT64 / T72) and Tank Bn (MIB 40xT80)
Artillery Battalion (203 SP)	1.02	As 155(SP) Bn (M109A5), +.02 for larger caliber
Artillery Battalion (203 Towed)	0.82	As 155(T) Bn (M198), +.02 for larger caliber
Artillery Battalion (155 SP)	1	As 155(SP) Bn (M109A5)
Artillery Battalion (155 Towed)	0.8	As 155(T) Bn (M198)
Artillery Battalion (105 Towed)	0.8	As 105(T) Bn (M119)
Rocket Artillery Battalion	3.42	As 80% BM-21 Bn and 20% MLRS Bn <sup>58</sup>

<sup>55</sup> Using the workbook from [https://rdl.train.army.mil/catalog/view/100.ATSC/CE5F5937-49EC-44EF-83F3-FC25CB0CB942-1274110898250/aledc\\_ref/cas3\\_force\\_ratio\\_calc.xls](https://rdl.train.army.mil/catalog/view/100.ATSC/CE5F5937-49EC-44EF-83F3-FC25CB0CB942-1274110898250/aledc_ref/cas3_force_ratio_calc.xls) (1997)

<sup>56</sup> Some major points;

1. This is based on combat performance in Ukraine and the evolving trends against helicopters. Helicopters can be very vulnerable, and when committed poorly can take high losses (see the 2003 attack on Karbala, though notably most of the helicopters were damaged and returned to base, not destroyed, [https://en.wikipedia.org/wiki/2003\\_attack\\_on\\_Karbala](https://en.wikipedia.org/wiki/2003_attack_on_Karbala)). In Ukraine helicopters have seen effective use from the Russians with long range standoff ATGM's on the defensive (see *Stormbreak: Fighting Through Russian Defences in Ukraine's 2023 Offensive*, Jack Watling and Nick Reynolds, September 2023, [https://static.rusi.org/Stormbreak-Special-Report-web-final\\_0.pdf](https://static.rusi.org/Stormbreak-Special-Report-web-final_0.pdf), pg. 17), but both Ukrainians and Russians have not to any large degree use helicopters in an standard "attack" role, even during more mobile phases of the war to my knowledge. This is, more or less because neither side has air superiority. If one has the ability to suppress or destroy SHORAD and MRAD in volume, we can see helicopters being extremely effective (look back to the gulf war again). However, my assessment is that neither side will have sufficient air superiority to use helicopters at their maximum potential, as even if the Chinese are able to win air superiority over Taiwan, the number of MANPADs will still be a problem.
2. Rotary wing aviation when engaged by ADA is reduced in effectiveness by 25% (Dale Spurlin and Matthew Green, "Demystifying the Correlation of Forces Calculator," *Infantry*, (January-March 2017), [https://www.moore.army.mil/infantry/magazine/issues/2017/JAN-MAR/pdf/7\)Spurlin\\_CoFCalculator\\_txt.pdf](https://www.moore.army.mil/infantry/magazine/issues/2017/JAN-MAR/pdf/7)Spurlin_CoFCalculator_txt.pdf)). Given evidence from Ukraine (everyone's helicopters stay well back from the front line) this is likely generously low, and as my general assumption is that there are going to be a lot of MANPADS about at a minimum, helicopters are probably going to be very consistently engaged.
3. Also note that in this game there is no consideration made for the effects of weather on operations. Limited visibility (rain, fog, etc..) would limit effectiveness by 25% (Dale Spurlin and Matthew Green, "Demystifying the Correlation of Forces Calculator," *Infantry*, (January-March 2017), [https://www.moore.army.mil/infantry/magazine/issues/2017/JAN-MAR/pdf/7\)Spurlin\\_CoFCalculator\\_txt.pdf](https://www.moore.army.mil/infantry/magazine/issues/2017/JAN-MAR/pdf/7)Spurlin_CoFCalculator_txt.pdf)), but given the already low-combat power and fragile nature of these units, (and I doubt that they would be highly committed in less than optimal conditions, mostly committed only if breakout was threatened or break-in was required), it is to much effort and work control to apply the 25% reduction in combat power.

<sup>57</sup> *Employment of a Military Police Company at a Combat Training Center*, Military Police, Fall 2019, <https://www.dvidshub.net/publication/issues/49363>, pg. 24

<sup>58</sup> As per numbers breakdown of systems on IISS The Military Balance 2022, pg. 308

Infantry Battalion (Modern)	0.48	As Infantry Bn (Light)
Combat Engineer Battalion	0.33	As Infantry Bn (Light), -.15 as not primary duty and much more likely to be lightly armed
Air Defense Bn. (Avenger)	0.21	As ADA Bn (Avenger)
OH-58 Battalion	.7	As Atk Helo Bn (24xOH58D)
AH-1 Attack Battalion	1.33	As (Atk Helo Bn (24xAH64) -.5)
AH-64 Attack Battalion	1.5	As (Atk Helo Bn (24xAH64)

For each brigade it is standard is to have HQ Coy., Signal/MI Coy., AT Coy (Javelin and TOW's), Armored Cav Coy (typ. platoon of 4 M41, platoon of 3 M113 mortar carries, and 3 armored cav platoons of Humvees), Maintenance Coy, Cbt. Eng. Coy., Medical Coy.

## Taiwanese Brigade Combat Power

Taiwanese Units <sup>59</sup>	Combat Power	Combat Power Notes
<i>6<sup>th</sup> Field Army</i>		
269th Mechanized Infantry Brigade	3.875	3 x Mech Inf Bn (CM21/M13), 1 x Tank Bn (CM11), 1 x Arty Bn (M114 155mm Towed)
542nd Armored Brigade	4.695	3 x Tank Bn (CM11 w/ ERA (+.05 per tank Bn)), 1 x Mech Inf Bn (CM21/M113 + V150), 1 x Arty Bn (M109 155mm SP)
584th Armored Brigade	4.31	2 x Tank Bn (M1A2T), 2 x Mech Inf Bn (CM21/M113), 1 x Arty Bn (M109 155mm SP)
621 <sup>st</sup> Group	6.42	3 x Arty Bn (Assumed 155 SP), 1 x Rocket Arty Bn.
622 <sup>nd</sup> Group	1.81	2 x Arty Bn (Mix of M109 155mm SPH, M110 203mm SPH, and M59 155mm Long Tom)
33rd Chemical Group	?	1 x Recce/Decontamination Bn, 1 x Smoke Bn.
53rd Engineering Group	0.66	3 x Combat Engineer Bn, 1 x Bridge Bn
153rd Infantry Brigade (A)	3.2	5 x Infantry Bn, 1 x Arty Bn
206th Infantry Brigade (A)	3.2	5 x Infantry Bn, 1 x Arty Bn
109 <sup>th</sup> Infantry Brigade (A)	3.2	As A-Level Reserve
249 <sup>th</sup> Infantry Brigade (A)	3.2	As A-Level Reserve
Guandu Defense Command	4.178312	No medical Coy. (-.03), 4 x Mech Inf. Bn (CM21/M113, M42 Duster, V150, CM32 + 1 Tank Coy per Bn of CM11 ((+.33*Armored Cav/Mech infantry Bn.)))
Lanyang Defense Command	2.365	1 x Arty "Bn" functionally ceremonial Arty coy. (+.33*105 Towed), 1 x Tank Bn (M60A3), 2 x Mech Inf Bn (CM21/M113, possibly CM32)
<i>10<sup>th</sup> Field Army</i>		
586th Armored Brigade	3.745	2 x Tank Bn (M60A3), 2 x Mech Bn (CM21/M113, CM32), 1 x Arty Bn (M109 155mm SPH)
234th Mechanized Infantry Brigade	4.31	3 x Mech Bn (CM21/M113, CM32), 1 x Tank Bn (M60A3), 1 x Arty Bn (M114 155mm towed)
58th Artillery Group	0.21	Combat power from ADA Coy. 1 x Target Acquisition Coy. 1 x ADA Bn (Avengers)
626th Artillery Group (-)	2.61	3 x Arty Bn (Mix of M109 155mm SPH, M110 203mm SPH, and M114 155mm towed),
626th Artillery Group MLRS Bn	4.5	1 x MLRS Bn (Thunderbolt-2000)

<sup>59</sup> Subunits used to estimate combat power detailed in The Chinese Invasion Threat (2017), Appendix III

52nd Engineering Coy	0.66	2 x Combat Engineer Bn, 1 x Bridge Bn.
36th Chemical Group	?	1 x Recce/Decontamination Bn, 1 x Smoke Bn.
74th Signals Group	?	1 x Network and Transmission Coy, 1 x Area Communication Bn, 1 x Communication Support Bn.
302nd Infantry Brigade (A)	3.2	5 x Infantry Bn, 1 x Arty Bn
104th Infantry Brigade (A)	3.2	5 x Infantry Bn, 1 x Arty Bn
257th Infantry Brigade (A)	3.2	5 x Infantry Bn, 1 x Arty Bn
101 <sup>st</sup> Infantry Brigade (A)	3.2	As A-Level Reserve
<i>8<sup>th</sup> Field Army</i>		
333rd Mechanized Infantry Brigade	2.6	3 x Mech Bn (CM32, V105, CM21/M113), 1 x Tank Bn (CM11), 1 Arty Bn (M144 155mm Towed)
564th Armored Brigade	3.6	2 x Tank Bn (CM11), 2 x Mech Bn (CM21/M113), Arty bn (M109 155mm SP)
43rd Artillery Command	0.16	Combat power from ADA Coy. (using Chaparrals is -.05), 1 x Target Acquisition coy. 1 x ADA Bn (Chaparral)
624th Group	3.87	3 x Arty BN (M110 203mm SP, M144 155mm towed, M109 155mm SP, M59 155mm Long Tom, M115 203mm towed), 1 x MLR Coy. (1/3 <sup>rd</sup> of MLR Bn)  Arty is 3x Average of: Average of Artillery Battalion (203 SP), Artillery Battalion (203 Towed), Artillery Battalion (155 SP), Artillery Battalion (155 Towed)
54th Engineering Group	0.66	2 x Combat Engineer Bn, 1 x Bridge Bn.
39th Chemical Group	?	1 x Recce/Decontamination Bn, 1 x Smoke Bn.
203rd Infantry Brigade (A)	3.2	5 x Infantry Bn, 1 x Arty Bn
117 <sup>th</sup> Infantry Brigade (A)	3.2	As A-Level Reserve
137 <sup>th</sup> Infantry Brigade (A)	3.2	As A-Level Reserve
<i>Huatung Defense Command (East)</i>		
Hualien Defense Team	2.455	1 x Tank Bn (M60A3 + 1 mech inf coy with CM21/M113), 2 x Mech Inf Bn (CM21/M113), 1 x Mixed Arty Bn. Arty using average of Artillery Battalion (155 Towed), Artillery Battalion (105 Towed)
Taitung Defense Team	2.11	2 x Mech Inf Bn (CM21/M113), 1 x Mixed Arty Bn. No medical Coy. (-.03), No AT Coy (-.08), Arty using average of Artillery Battalion (155 Towed), Artillery Battalion (105 Towed)
<i>Island Defense Commands</i>		
Penghu Defense Command	2.3466	1 x Mech Inf Bn (CM21/M113 + 1 M60A3 ?Coy?), 1 x Armored Cav Bn. 1 x Mixed Arty Bn (M114 155mm towed, M101 105mm towed).  Armored Cav Battalion represented by (.5*Gen 2.5 Tank Bn. + .5*Modern Inf Bn.). Arty using average of Artillery Battalion (155 Towed), Artillery Battalion (105 Towed)
Kinmen Defense Command	0.87	Mixed ADA Coy, Mixed Field Arty Bn (M1 204mm towed, M115 203mm towed, 155mm Long Tom towed, M101 105mm towed, 120mm mortars)  No medical Coy. (-.03), No AT Coy (-.08), Mixed ADA Coy. is considered to be (ADA Coy (Avengers)-.03.) Arty using average of Artillery Battalion (155 Towed), Artillery Battalion (105 Towed)

Kinmen Defense Team	1.568	1 x Tank Bn (M60A3 w/ 1 mech inf coy of CM21/M113), 1 x Mech Inf Bn (CM21/M113) One of the Tank Bn Coy's is a Mech Inf Coy. of CM21/M113, so (.66*M60Bn, + .33*Mech Inf Bn.)
Lieyu Defense Team	0.52734	1 x Mech Infantry Coy. (.33*Mech Inf), 1 x Mixed Arty Coy. (.33*Average of Arty)
Matsu Defense Command	0.3189	HQ Coy, Signal/MI Coy, Combat Engineer Coy, ADA Coy., Rocket Platoon (Probably Thunderbolt-2000)
Nangan Defense Team	0.68574	1 x Mech Infantry Coy. (.33*Mech Inf), 1 x Mixed Arty Coy. (.33*Average of Arty), 1 x Infantry Coy. (.33*Inf Bn)
Beigan Defense Team	0.68574	1 x Mech Infantry Coy. (.33*Mech Inf), 1 x Mixed Arty Coy. (.33*Average of Arty), 1 x Infantry Coy. (.33*Inf Bn)
Juguan Defense Team	0.68574	1 x Mech Infantry Coy. (.33*Mech Inf), 1 x Mixed Arty Coy. (.33*Average of Arty), 1 x Infantry Coy. (.33*Inf Bn)
Dongyin Defense Command	.956	1 x Mixed ADA Coy (possibly under the Arty Bn), 1 x Inf Bn (1 coy. is Mech with CM21/M113), 1 x Mixed Arty Bn (81mm mortar, M101 105mm towed, 102 mm mortar, M115 203mm towed, 20mm anti-air cannon)  Mixed arty bn treated as ½ of towed 105mm.
<i>Reserves</i>		
A-Level Reserves (Noted with (A) above)	3.2	5 x Inf Bn (as Infantry Bn (M113)), and 1 x FA Bn. (as 155(T) Bn (M198)) <sup>60</sup>
B-Level Reserve	3	Assumed to be the close to standard infantry units as they are mostly permanent troops on educational rotation.
C-Level Reserve	1.63	“Lump everyone together into the newly activated reserve infantry brigades that possess no specialty, no vehicles, and no equipment except rifles (often older types) and are led by called-up reservist officers who have little experience commanding such ad hoc units.” <sup>61</sup> Comprised of “three to five battalions of infantry and one battalion of field artillery” <sup>62</sup> As such 4 x Infantry Bn (Light) and 1 x 105(T) Bn (M102), *.6 for not being proper troops with training
D-Level Reserve	1.44	Reserve units made of those from the mobilization system. My current understanding is they are not well equipped with vehicles and artillery. As such 3 x Infantry Bn (Light)
<i>Marine Corps</i>		
66 <sup>th</sup> Marine Brigade	4.075	3 x Mech Inf bn (CM21/M113), 1 x Tank Bn (M60A3), 1 x Artillery Bn (M109 155mm SPH) 291 Attachment (assuming the unit is split equally between the two Brigades) <ul style="list-style-type: none"> <li>• 2 x Amphib Transport Squadron (AAV7, LVT5)</li> <li>• 1 x Amphib Artillery Squadron (LVT5)</li> </ul>

<sup>60</sup> <https://news.ltn.com.tw/news/politics/paper/1561526>, <https://news.ltn.com.tw/news/politics/breakingnews/3390751>, this mates to ORBAT from The Chinese Invasion Threat, Ian Easton, Appendix III

<sup>61</sup> <https://foreignpolicy.com/2020/02/15/china-threat-invasion-conscription-taiwans-military-is-a-hollow-shell/> (2020)

<sup>62</sup> *Transformation of Taiwan's Reserve Force*, Ian Easton, Mark Stokes, Cortez A. Cooper, Arthur Chang, 2017, [https://www.rand.org/content/dam/rand/pubs/research\\_reports/RR1700/RR1757/RAND\\_RR1757.pdf](https://www.rand.org/content/dam/rand/pubs/research_reports/RR1700/RR1757/RAND_RR1757.pdf) (2017), pg. 14

99 <sup>th</sup> Marine Brigade	4.075	3 x Mech Inf bn (CM21/M113), 1 x Tank Bn (M60A3), 1 x Artillery Bn (M109 155mm SPH) Amphibious Armor Group Attachment (assuming the unit is split equally between the two Brigades) <ul style="list-style-type: none"> <li>• 2 x Amphib Transport Squadron (AAV7, LVT5)</li> <li>• 1 x Amphib Artillery Squadron (LVT5)</li> </ul>
Marine Corps New Training Brigade (A)	3.2	? (assume same as other A-level Reserves)
<i>Military Police</i>		
202 <sup>nd</sup> MP Command	2.9	3 x MP Bn (as Infantry Bn (Light)), 1 x 120mm Mortar Bn (as .3), 1 x MP Bn w/ Armored Vehicles (as Mech Inf Battalion (Modern Infantry and ATGM, Mix Modern and Old APC)). <sup>63</sup> However in wartime, 2 or 3 of these Bn would likely be on guard duties for VIP's and military HQ's. To avoid having to have several counters (MP unit fighting with all Bn's in Taipei, MP unit fighting with less Bn's, etc..) I assume the difference is made up by amalgamating in other MP units into the 202 <sup>nd</sup> as the 202 <sup>nd</sup> Bn's are tasked to other duties.
<i>Aviation and Special Forces Command</i>		
601 <sup>st</sup> Aviation Bde.	2.34	1.21 x AH-64 Attack Battalion, .75 x Atk Helo Bn (24xOH58D), .63 x Utility/Transport Bn*
602 <sup>nd</sup> Aviation Bde.	3	1.83 x AH-1 Attack Battalion, .79 x Atk Helo Bn (24xOH58D), .63 x Utility/Transport Bn*
Army Aviation Training Command	1.27	.96 x AH-1 Attack Battalion, 1.21 x Light Utility/Transport Bn*

\*Units are calculated in the following manner.

The following number of helicopters are in each bn.

Helicopter Type	Total <sup>64</sup>	# of Bn <sup>65</sup>	# of Helo's per BN
OH-58D	37	2	18.5
AH-1W	67	3	22.3
AH-64E	29	2	14.5
UH-60M	30	2*	15
TH-67	29	1*	29

\*I assume that the UH-60M are split between the two Aviation Brigades, and the TH-67 as trainers are with the Aviation Training Command.

This allows us to assess how many are in each brigade.<sup>66</sup>

<i>Unit</i>	<i>OH-58</i>	<i>AH-1</i>	<i>AH-64</i>	<i>UH-60</i>	<i>TH-67</i>
601 <sup>st</sup> Aviation Brigade	18		29	15	
602 <sup>nd</sup> Aviation Brigade	19	44		15	
Army Aviation Training Command		23			29

And from that how many 24 helicopter Bn's (the standard the combat power numbers use) there are

<i>Unit</i>	<i>OH-58</i>	<i>AH-1</i>	<i>AH-64</i>	<i>UH-60</i>	<i>TH-67</i>
601 <sup>st</sup> Aviation Brigade	.75	0	1.21	.63	0
602 <sup>nd</sup> Aviation Brigade	.79	1.83	0	.63	0

<sup>63</sup> The Chinese Invasion Threat, Ian Easton, Appendix III, pg. 306

<sup>64</sup> *IJSS Military Balance 2024*, pg. 315

<sup>65</sup> *The Chinese Invasion Threat*, Appendix III

<sup>66</sup> Bn's in each brigade is given from *The Chinese Invasion Threat*, Appendix III

Army Aviation Training Command	0	.96	0	0	1.21
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## China Sub Unit Info

Unit	Force Equivalent	Note
<b>PLANMC Marine Brigade<sup>67</sup></b>		
Amphib Mech Bn.	.65	Infantry Bn (BMP-3)
Light Mech Inf Bn.	0.35	As Enemy Infantry Bn (Light / Air Assault)
Air Assault Inf Bn.	0.35	As Enemy Infantry Bn (Light / Air Assault)
Recon Bn.	0.2	As Enemy Recon Bn
Artillery Battalion (Probably 122mm SP Guns)	0.9	As Enemy 2S1 Bn
ADA Bn.	0.21	As ADA Bn (Avenger)
<b>Combined Arms Brigade (Amphibious)</b>		
Mech Bn. (Heavy)	.65	As Infantry Bn (BMP-3)
Mech Bn. (Medium)	.51	As Infantry Bn (BMP-1 / 2)
Inf Bn (Light)	.35	As Infantry Bn (Light / Air Assault)
Armor Bn. (Type 96)	1	As Tank Bn (MIB 40xT80). Equivalent to T-72B3's <sup>68</sup>
Armor Bn. (Type 99)	1.1	As Tank Bn (MIB 40xT80) +.1 (as they are modernized). Equivalent to T-90A's <sup>69</sup>
Artillery Bn.	1.05	As 2S3 Bn

## Chinese Brigade Combat Power

	Combat Power	Combat Power Notes
Marine Brigade	4.01	Unit composition as described in source (see above). <sup>70</sup> Note that the 1 <sup>st</sup> and 2 <sup>nd</sup> Brigades appear to be operating different equipment than the other 4 brigades, but this game does not model that. <sup>71</sup> Some brigades may not have fully self-propelled fire support. <sup>72</sup> Other equipment differences may also be present, <sup>73</sup> and units (3 <sup>rd</sup> , 4 <sup>th</sup> , 5 <sup>th</sup> )

<sup>67</sup> China Maritime Report No. 15: The New Chinese Marine Corps: A "Strategic Dagger" in a Cross Strait Invasion (2021), pg. 5

<sup>68</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 26)

<sup>69</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 26)

<sup>70</sup> China Maritime Report No. 15: The New Chinese Marine Corps: A "Strategic Dagger" in a Cross Strait Invasion (2021) pg. 5

<sup>71</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 168-171.

<sup>72</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 172.

<sup>73</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 177



		are likely currently underequipped with sufficient amphibious vehicles. <sup>74</sup>
Heavy Combined Arms Brigade	8.15	<p>Note that as sources do not give any breakdown on the types of CAB's operating (Heavy, Medium, Light, and Mountain,<sup>75</sup> though Amphibious ones are known), this represents a composite.</p> <p>Unit composition: Mech HQ, 4 x (Heavy) Armored Combined Arms Bn, 1 x Recon Bn (2 x Recce troops of armored vehicles + HQ and UAV's)<sup>76</sup>, 1 x Arty Bn (3 x coy of 8 x 122mm guns [24 total] + 3 x batteries of 3 x 122 MRL (9 total), 12 x 300mm MLR?<sup>77</sup>, + counterbattery radar and 6? x ATGM vehicles), 1 x AD Bn (6 x Coy, 1 of SAMs, 5 of AAA and MANPADS)<sup>78</sup>, 1 x Operational Support Bn (EW + Engineer support +Camouflage, maybe ARV's and bridging), 1 x Service Support Bn (logistics and medical). Based on the footnoted source<sup>79</sup></p> <p>A Heavy Combined Arms Bn. is comprised of: HQ, 2 x Armor Coy. (10 or 14 tanks x Coy.), 3 x Mech Inf Coy (10 or 14 IFV x Coy.), 1 x Firepower Coy. (6-9 SP 120mm Mortars + MANPADS), 1 x Service Support Coy.<sup>80</sup></p> <p>Total is 80 or 112 tanks*, and 80/120 or 112/168* IFV's, and 560 or 840* dismounts * Indicates most likely wartime strength.</p> <p>Unit composition is 4 x Mixed Bn (functionally 3 Mech Infantry Bn, 3 x Tank Bn (as 3 x 40 = 120 which is closest to 112 tanks) 1 x Recce Bn, and 1 x 122mm Artillery Bn + 1/2 x 122 MRL Bn. + 1/2 AT Bn.</p>
Medium Combined Arms Brigade	5.43	<p>Based on Source<sup>81</sup></p> <p>Unit composition is 4 x Mixed Bn (functionally 3 Mech Infantry Bn, 1 x Tank Bn, 1 x Recce Bn, and 1 x 122mm Artillery Bn + + 1/2 x 122 MRL Bn. + 1/2 AT Bn.</p>
Light Combined Arms Brigade	3.95	<p>Based on Source<sup>82</sup></p>

<sup>74</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 184

<sup>75</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 25), note that Light Mountain, Amphibious, and Air Assault are all classed as "Light" for the PLAA, see *ATP 7-100.3, Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), pg. 40, section 2-8 (2-21)

<sup>76</sup> Note that while the Recce Bn seems light, this is because it integrates with other units. Units from the group army level EW units, SOF, Aviation, and non-group army assets like satellites. See *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 28).

<sup>77</sup> The 300mm MLR units are in *ATP 7-100.3, Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), pg. 40, section 2-10 (2-25), but not listed in *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28.

<sup>78</sup> The AD Bn. is (likely) only capable of visual-range engagements (e.g.. "point defense of vital nodes within the HCAB during operations". Likely SAM system (in most cases) HQ-7B. AAA in most cases is SP or towed (PGZ-09 and Type 90 35mm for example). A Coy. is likely 6 x systems + radar. The Bn overall is thought to have 18-24 FN-6 MANPADS (IR seekers).

<sup>79</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 22), Arty Bn (pg. 26-27), Recce Bn (pg. 27). Operational Support and Service Support Bn's (pg 28). This overall structure is consistent with *ATP 7-100.3, Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), pg. 40, section 2-8 (2-22)

<sup>80</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 23). Chinese sources are unclear whether this is 10 or 14 vehicles, but 14 seems more likely (pg. 25) though it may be that 10 is peacetime and 14 is wartime numbers for most/all units, pg. 26 indicates that 3 x Inf coy per Bn is more common

<sup>81</sup> *ATP 7-100.3, Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), section 2-14 (2-22-22-24 for an over 2-33 for maneuver brigades), and some details from *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 25)

<sup>82</sup> *ATP 7-100.3, Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), section 2-14 (2-22-22-24 for an over 2-34 for maneuver brigades), and some details from *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28 (pg. 25)

		Unit composition is 3 x Inf Bn (functionally 3 Light Infantry Bn, 1 x Recce Bn, and 1 x 122mm Artillery Bn + + 1/2 x 122 MRL Bn. + 1/2 AT Bn.
Mountain Combined Arms Brigade	3.95	Not likely present in the AO at the start (though they could be brought in to fight in Taiwan's mountains down the line if needed). They are described as light <sup>83</sup>  Based on Heavy Combined Arms Brigade organization above and the details on Pg. 25 <sup>84</sup> - replace the Mech from HCAB with Humvees and the tanks with light tanks with 105mm guns
Combined Arms Brigade (Amphibious)	6.6	4 combined arms battalions (two amphibious assault gun coy (105mm) <sup>85</sup> , 2 amphib mech inf companies, a firepower coy (mortars and man-portable air defense systems—MANPADs), and a service support company (w/ recce and engineer plt.). [As Infantry Bn (M2)] 1 recce battalion. [As Enemy Recon BN.] 1 arty battalion with (122mm howitzers, 122mm rocket launchers, and ATGM systems). [I used 2.25 for a reason I can't remember, likely a 50-50 composite of two 122 BN's], 1 ADA battalion (tracked anti-aircraft gun systems, short-range SAM systems, and MANPADs). [As ADA Bn (Avenger)], 1 operational support battalion (C2 vehicles, EW systems, engineering equipment, chemical defense systems, and security elements), 1 service support battalion (supply, medical, and repair and maintenance units) <sup>86</sup>
Airborne Brigade (Light Motorized)	3.6	<ul style="list-style-type: none"> <li>- 4 x Combined Arms Battalion (either mechanized battalion, motorized battalion, or assault battalion. Each one of these is made up of 3 x Infantry Coy that are either mech, motorized, or assault + a weapons coy, and a headquarters element)</li> <li>- Artillery Battalion (122 coy, mortar coy, MLRS coy, Anti Air Missile coy, AAA coy, AT coy)</li> <li>- Recon and pathfinder battalion (3 x infantry coy)</li> <li>- Operations support battalion</li> <li>- Service support battalion</li> <li>- Possibly a transportation battalion<sup>87</sup></li> </ul> <p>Light Motorized use a mix of light and motorized Bn. <sup>88</sup></p> <p>Air Assault has an integrated Helicopter Regiment (~12 Z-9WZ utility, ~12 Z-8KA transport, ~17 Z-10 Attack). 1<sup>st</sup> Bn is full sized, but the other 3 Bn's of the unit are half-battalions to allow them to be airmobile by the Helicopter regiment. <sup>89</sup></p> <p>Mech units operate a wide variety of vehicles. Importantly the 134<sup>th</sup> operates air-droppable vehicles. <sup>90</sup></p>
Airborne Brigade (Mechanized)	3.59	See above
Airborne Brigade (Air Assault)/PLAGF Air Assault Brigade	3.17	See above – I am assuming that PLAGF Air Assault brigades use the same organization as the PLAAF ones. The PLAAFAC unit has 1 x full strength bn and 3 x half strength bn.s
Army Aviation Brigade	1.11	Units have a 24 attack helicopters (16 attack + 8 recce/light attack + 32-48 utility helos), <sup>91</sup> Thus as Hind-D Bn

<sup>83</sup> ATP 7-100.3, *Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), section 2-8 (2-21)

<sup>84</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg. 20-28.

<sup>85</sup> This particular detail comes from *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 167.

<sup>86</sup> China Maritime Report No. 20: The PLA Army Amphibious Force (2022). Pg. 5. Additional details on some weapons, numbers of vehicles, etc. can be found in *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 167.

<sup>87</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 198-200, originally from Office of the Secretary of Defense, Annual Report to Congress: Military and Security Developments Involving the People's Republic of China 2021 (Washington, D.C.: Department of Defense, November 2021), 58.

<sup>88</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 200

<sup>89</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 201

<sup>90</sup> *Crossing The Strait*, China's Military Prepares for War with Taiwan, National Defense University Press, 2022 pg. 201-202

<sup>91</sup> ATP 7-100.3, *Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), section 2-12,213 (2-29)

Artillery Brigade	9.1	2 x SP 122/152/155mm howitzer Bn. (as 2 x 2S1 Bn) 1 x 122mm MRL Bn (As BM-21 Bn.) 1 x 300 mm Rocket Bn (As BM-21 Bn. + 1). <sup>92</sup>
SOF Brigade	2.8	Having looked rather hard I cant find an ORBAT. Given that they are basically equivalent in role to the US Rangers, <sup>93</sup> and given that Chinese Brigades have 4 x Bn's. a SOF brigade is 4*Infantry Bn (Airborne/Air Assault).
PAP Mobile Detachment	1.0	As 2 x Light Inf Bn <sup>94</sup>
PAP SOF Detachment	1.4	Assuming they follow the same structure as a Mobile Detachment (6 x Coy's), as 2 x Airbrone/Air Assault Bn.
Beijing Garrison		

As a side note on supporting attachments not in this game (above the level of this game) group armies are standardized: 6 x Combined Arms Brigades, 6 x Supporting Brigades, 1 x Artillery Brigade, 1 x Air Defense Brigade, 1 x SOF Brigade, 1 x Army Aviation Brigade, 1 x Engineer Brigade, 1 x Chemical Defense Brigade, 1 Service Support brigade.<sup>95</sup>

## Various Countries Sub Unit Info

Unit	Force Equivalent	Note
Philippines Marine Battalion	0.8	As MARFOR Infantry Bn
Combat Engineer Battalion	0.33	As Infantry Bn (Light), -.15 as not primary duty and much more likely to be lightly armed
Stryker Infantry Battalion	.71	As Infantry Bn (M113)
Vietnam Naval Infantry Armor Battalion	.2	Uses PT-76, number is an educated guess.

## Various Countries Brigade Combat Power

Need to account for DIVARTY for US units who deploy with DIVARTY elements.

Unit <sup>96</sup>	Combat Power	Combat Power Notes
1 <sup>st</sup> Brigade (Australian)	2.19	1 x Mechanized Infantry Regiments (as Infantry Bn (M113)), 1 x Motorized Infantry Regiment (as Infantry Bn (Light)), Artillery Regiment (as 155(T) Bn (M198)), Combat Engineer Regiment, (.2)
Philippines Marine Brigade	3.9	x3 Marine Battalions <sup>97</sup> , with assumed attachment of a MARFOR FA Bn
Philippines Mech Infantry Brigade	2.47	1 mech inf bn (M113); 2 inf bn, 1 arty bn (105) <sup>98</sup>

<sup>92</sup> ATP 7-100.3, *Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), section 2-10 (2-25)

<sup>93</sup> China Maritime Report No. 18: Chinese Special Operations in a Large-Scale Island Landing (2022) <https://digital-commons.usnwc.edu/cgi/viewcontent.cgi?article=1017&context=cmssi-maritime-reports>, pg. 6 and 8, and *The Chinese Invasion Threat*, Ian Easton, 2017, pg. 109

<sup>94</sup> ATP 7-100.3, *Chinese Tactics*, August 2021, [https://armypubs.army.mil/epubs/DR\\_pubs/DR\\_a/ARN34236-ATP\\_7-100.3-001-WEB-3.pdf](https://armypubs.army.mil/epubs/DR_pubs/DR_a/ARN34236-ATP_7-100.3-001-WEB-3.pdf), section 9-31, Figure 9-4

<sup>95</sup> *Heavy Hitters*, Janes Defense Weekly, 1 December 2021, Samuel Cranny-Evans, pg 20-28 (pg. 22)

<sup>96</sup> Subunits used to estimate combat power detailed in *The Chinese Invasion Threat* (2017), Appendix III

<sup>97</sup> IISS Military Balance 2023, pg. 285

<sup>98</sup> IISS the Military Balance 2021, pg. 295. Aligns with <https://web.archive.org/web/20181215154225/https://news.mb.com.ph/2018/12/15/army-creates-own-us-inspired-rapid-deployable-team/> "the BCT will be composed of maneuver components which includes two infantry and one mechanized battalions, maneuver support consists of specialized enablers such as field artillery and engineer combat battalions, reconnaissance company and units from signal, intelligence, civil-military operations, military police, explosive ordnance, CBRN (chemical biological radiological and nuclear), and sustainment components composed of a forward service support unit and a forward medical platoon."

Philippines Army	4.7	This force is listed at 10 x Towed Artillery Bn, of which 1 is a wheeled SPG. <sup>99</sup> For deployment however I view it as unlikely that all would be able to be transported, and as such evaluate it as 5 x Towed Bn of which 1 is a wheeled SPG. Artily inventory is almost entirely 105 so I assume 4 x 105 towed, 1 x 155 SPG. <sup>100</sup>
75 <sup>th</sup> Ranger Regiment	2.8	As 3*Infantry Bn (Airborne/Air Assault) + .1 per Bn for being an elite unit., plus ½ of Infantry Bn (Airborne/Air Assault) for the Regimental Special Troops Battalion.
4 <sup>th</sup> Marine Regiment (+)	1.6	3rd Reconnaissance Battalion and 4th Marine Regiment (assuming they would be moved back into theater in event of war or tensions)
US Armor BCT	6.93	Armored Battalion (×2), Mechanized Infantry Battalion (×1), Cavalry Squadron, Field Artillery Battalion (M109), Brigade Engineer Battalion
US Stryker BCT	4.76	Infantry battalion (×3), Cavalry squadron (in Strykers), Field artillery (fires) battalion (155mm towed), Brigade Engineer Battalion
US Airborne BCT	4.03	Infantry battalion (×2, as they are OCONUS units), Cavalry squadron Field artillery (fires) battalion (2/3*105mm towed M119 + 1/3 155 towed), Brigade engineer battalion.
US Artillery Brigade	2 x 8.8's	Artillery Brigade of 2 x MLRS Bn <sup>101</sup> (as ATACMS Bn (B1)) Can be reinforced by 1 x MLRS Bn (Rotational) <sup>102</sup>
US Attack/Reconnaissance Battalion	1.5	As Atk Helo Bn (24xAH64)
US Combat Aviation Battalion	3	2 x Atk Helo Bn (24xAH64)
US MEU	2.33	As x2 MARFOR Infantry Battalions (a Battalion landing team is over 2x the size of a normal Bn. + 1 x AAV coy + 1 LAV coy + AH-1 coy (representing 4 x AH-1Z) <sup>103</sup>
US MLR	2	As 1 x MARFOR Infantry Bn, 1 x Avenger Bn <sup>104</sup> + 1.0 for the advanced capabilities, new tactics, better concealability, and choice troops the 3 <sup>rd</sup> MLR has <sup>105</sup>
US MDTF	.32	No significant ground combat element. <sup>106</sup> Assumed to be 2 coy of infantry (2/3 Infantry Bn (Light))
Japan Amphibious Rapid Deployment Brigade	5.23	2 x Infantry Regiments (assumed to be 2 Inf Bn. (e.g. Japanese regiments are Bn equivalents) plus the unit is currently understrength), Artillery Battalion, Reconnaissance Battalion, Engineer Battalion.
Japan 1st Airborne Brigade	3.23	3 AB bn, 1 field arty bn (assumed to be towed 105's), 1 cbt engr coy, 1 sigs coy, 1 log bn <sup>107</sup>
Japan 12 <sup>th</sup> Brigade	3.64	1 recce squadron (as LAV Co), 3 inf regiment (as Infantry Bn (Air Assault), assuming Jpn Reg. are = US Bn.), 1 aviation sqn (lift), 1 field arty bn (as 155(T) Bn (M198)), 1 cbt engr coy (.33 as always),

<sup>99</sup> <https://www.navalnews.com/naval-news/2023/07/philippines-to-acquire-himars-more-brahmos-missiles/> (2023)

<sup>100</sup> IISS the Military Balance 2023, Asia, pg. 284

<sup>101</sup> <https://www.2id.korea.army.mil/About-Us/Organization/> (Accessed Oct, 14, 2023), lists 6th Battalion, 37th Field Artillery 'On the Minute' and 1st Battalion, 38th Field Artillery Regiment as the two subordinate units. Looking at DVIDS images which are relatively out of date, and what I can see on Facebook they both seem to be MLRS regiments.

<sup>102</sup> [https://www.army.mil/article/163345/210th\\_field\\_artillery\\_brigade\\_welcomes\\_new\\_rotational\\_mlrs\\_battalion](https://www.army.mil/article/163345/210th_field_artillery_brigade_welcomes_new_rotational_mlrs_battalion) (2016)

<sup>103</sup> <https://www.marines.mil/portals/1/Amphibious%20Ready%20Group%20And%20Marine%20Expeditionary%20Unit%20Overview.pdf> pg. 10-13.

<sup>104</sup> <https://www.marines.mil/News/News-Display/Article/2708146/marine-littoral-regiment-mlr/> accessed March 31, 2023: "The MLR will employ three subordinate elements:

- a Littoral Combat Team
- a Littoral Anti-Air Battalion
- a Combat Logistics Battalion

The LCT will be task organized around an infantry battalion along with an anti-ship missile battery. It is designed to provide the basis for employing multiple platoon-reinforced-size expeditionary advanced base sites that can host and enable a variety of missions such as long-range anti-ship fires, forward arming and refueling of aircraft, intelligence, surveillance, and reconnaissance of key maritime terrain, and air-defense and early warning.

The Littoral Anti-Air Battalion is designed to provide air defense, air surveillance and early warning, air control, and forward rearming and refueling capabilities.

The Combat Logistics Battalion provides tactical logistics support to the MLR by resupplying expeditionary advanced base sites, managing cache sites, and connecting to higher-level logistics providers. It provides expanded purchasing authorities, limited Role II medical forces, distribution of ammunition and fuel, and field level maintenance."

<sup>105</sup> See reporting like <https://www.marinecorpstimes.com/news/your-marine-corps/2023/03/16/marine-littoral-regiment-fends-off-traditional-regiment-in-exercise/> (2023) and <https://www.nytimes.com/2023/03/05/us/marines-china-pacific.html> (2023)

<sup>106</sup> <https://crsreports.congress.gov/product/pdf/IF/IF11797/2> gives a generic ORBAT. Some security element would likely included.

<sup>107</sup> IISS the Military Balance 2021, pg. 270

		ADA Battery (as ADA Bn (Avenger), 1 NBC coy, 1 sigs coy, 1 log bn. <sup>108</sup>
UK Scratch Infantry Brigade	3.2	Assume formed from 3 Bn's – 1 Gurkha already in Brunei, a second RM Bn, and 1 from a combo of Ranger Regiment, SF, and RM forces (all as Infantry Bn (Airborne/Air Assault)+.1). With a 105 towed element as 105(T) Bn (M119)
Vietnam Airborne Brigade	3.23	Assuming 3 AB bn, 1 fd arty bn (assumed to be towed 105's), 1 cbt engr coy
Vietnam Naval Infantry Brigade	1.87	3 Inf Battalions (as Infantry Bn (BTR-50 / 60)), Armor Battalion, Artillery Battalion (approximately towed 105)
French Scratch Pacific Mech Brigade	4.3	2e RPIMa Regiment (assumed x2 Light AB Bn [As Infantry Bn (Airborne/Air Assault)]), 5 <sup>th</sup> Regiment of Cuirassier (Coy. of LeClerc [not movable in game timeframe], Coy. of Arty [as 1/3*155(T) Bn (M198)], Inf Bn [As Inf Bn Light]), and 5 <sup>th</sup> Regiment Outre Mer (Mech Inf Coy. [As Infantry Bn (Airborne/Air Assault)*1/3], a light cav squadron [estimated at .25], an artillery battery [as 1/3*155(T) Bn (M198)]) <sup>109</sup> + AB regiment at La Réunion (for x2 as Infantry Bn (Airborne/Air Assault))
11 <sup>th</sup> Airborne Brigade	7.43	1 armored cav regiment (as Div Cav Squadron (AASLT, Abn, Lt Div)), 4 para regiment (for x8 as Infantry Bn (Airborne/Air Assault)), 1 artillery regiment (as 155(T) Bn (M198)), 1 Engineer regiment <sup>110</sup>
27 <sup>th</sup> Mountain Brigade	6.03	1 armored cav regiment (as Div Cav Squadron (AASLT, Abn, Lt Div)), 3 mountain infantry regiment (for x6 as Infantry Bn (Airborne/Air Assault)), 1 artillery regiment (as 155(T) Bn (M198)), 1 Engineer regiment, <sup>111</sup>
9th Marine Infantry Brigade	6.75	2 armored cav regiment (as Div Cav Squadron (AASLT, Abn, Lt Div)), 2 marine infantry regiment (for x4 as Infantry Bn (Airborne/Air Assault)), 1 infantry regiment (for x2 as Infantry Bn (M113)) 1 artillery regiment (as 155(T) Bn (M198)), 1 Engineer regiment <sup>112</sup>
Canadian Mech Brigade	3.23 Base + Armor Reg. + (.7, 1.1, .9)	Three infantry battalions (two mechanized as [Infantry Bn (M113)], one light [Infantry Bn (Light)]), an artillery regiment (as 50-50 split between Towed 105's and Towed 155), a combat engineer regiment (.33), a reconnaissance squadron (as MARFOR LAV coy.), appropriate combat support, communications, medical and service support units. <sup>113</sup>  Each one also has an armored regiment of varied composition. It seems likely each CMBG would end up with 1 heavy armor attachment (As per Cav Troop (Ground)) and 1-3 light armor (as MARFOR LAV coy). <sup>114</sup> <ul style="list-style-type: none"> <li>• 1st CMBG - Lord Strathcona's Horse (Royal Canadians) - one light armored squadron.</li> <li>• The Royal Canadian Dragoons - three light armored squadrons.</li> <li>• 12e Régiment blindé du Canada – two light armored squadrons</li> </ul>
Australian Aviation Regiment.	1.5	Operates 22 Tigers, so assumed to be the same as: Atk Helo Bn (24xAH64)

<sup>108</sup> Structure IISS The Military Balance, 2022, pg. 276, equipment from [https://en.wikipedia.org/wiki/12th\\_Brigade\\_\(Japan\)](https://en.wikipedia.org/wiki/12th_Brigade_(Japan)) Accessed July 19, 2022

<sup>109</sup> Some parts of units drawn from [https://espritsurcouf.fr/geopolitique\\_la-strategie-de-la-france-dans-l-indo-pacifique\\_par\\_joseph-le-gall/](https://espritsurcouf.fr/geopolitique_la-strategie-de-la-france-dans-l-indo-pacifique_par_joseph-le-gall/)

<sup>110</sup> IISS The Military Balance 2021 pg.102

<sup>111</sup> IISS The Military Balance 2021 pg.102

<sup>112</sup> [https://en.wikipedia.org/wiki/9th\\_Marine\\_Infantry\\_Brigade](https://en.wikipedia.org/wiki/9th_Marine_Infantry_Brigade) (Accessed March 7, 2022)

<sup>113</sup> <https://www.canada.ca/en/army/corporate/the-canadian-army-of-today.html> (Accessed July 7, 2022)

<sup>114</sup> [https://en.wikipedia.org/wiki/Royal\\_Canadian\\_Armoured\\_Corps](https://en.wikipedia.org/wiki/Royal_Canadian_Armoured_Corps) (accessed July 7, 2022)

## **Missile Salvos and Inventories (see Missile Salvo Calculation Sheet)**

See Missile Salvo Calculation Sheet.