

Table 2: PLARF Missile Force Structure 2020¹

Base Number (Provinces)	Unit	Location ²	Weapon Type ³	Nuclear	Notes
PLARF HQ		Beijing (40.0352, 116.3197)			
Base 61 (Anhui, Fujian, Guangdong, Jiangxi, Zhejiang)	HQ	Huangshan (29.6957, 118.3025)			
	611 Brigade	Qingyang (30.6903, 117.9011)	DF-21A	Yes	Former DF-3A brigade.
	612 Brigade	Leping (28.9797, 117.1205)	DF-21(A) ⁴	(Yes)	Nuclear status unclear.
	613 Brigade	Shangrao (28.4745, 117.8954)	DF-15B	No	First conventional SRBM unit
	614 Brigade	Yongan (26.0596, 117.3151)	DF-11A	No	First DF-11A brigade.
	615 Brigade	Meizhou (24.2828, 115.9708)	DF-11A (DF-17?)	No	Second DF-11A brigade.
	616 Brigade	Ganzhou (25.7823, 114.8805)	DF-15	No	Second DF-15 brigade.
	617 Brigade	Jinhua (29.1508, 119.6153)	DF-16 ⁵	No	Second DF-16 brigade.
618 Brigade	? ⁶	?	?	Rumored new brigade base.	
Base 62 (Guangxi, Guangdong, Hainan, Sichuan, Yunnan)	HQ	Kunming (24.9888, 102.8346)			
	621 Brigade	Yibin (28.7607, 104.7914)	DF-21(A)	(Yes)	
	622 Brigade	Yuxi (24.3601, 102.4942)	DF-31A	Yes	Former DF-21A brigade.
	623 Brigade	Liuzhou (24.3856, 109.5726)	DF-10A	No	First DF-10A brigade.
	624 Brigade	Danzhou (19.4721, 109.4570)	DF-21C/D	No	New base under construction.
	625 Brigade	Jianshui (23.7354, 102.8713)	DF-26	Yes	Possibly third DF-26 brigade.
	626 Brigade	Qingyuan (23.6845, 113.1768)	DF-26	Yes	Possible second DF-26 brigade.
627 Brigade	Puning (23.4122, 116.1816)?	? (SRBM, DF-17?)	(No)	Rumored new brigade base area.	
Base 63 (Huaihua, Hunan)	HQ	Huaihua (27.5747, 110.0250)			
	631 Brigade	Jingzhou (26.5577, 109.6648) ⁷	DF-5B	Yes	HQ base. ⁸
	632 Brigade	Shaoyang (27.2532, 111.3859)	DF-31AG	Yes	Upgraded from DF-31.
	633 Brigade	Huitong (26.8935, 109.7388)	DF-5A	Yes	HQ base. ⁹
	634 Brigade	Tongdao (26.1459, 109.7723)? ¹⁰	? (DF-41?)	?	Rumored new brigade base area. ¹¹
	635 Brigade	Yichun (27.8869, 114.3862)	DF-10	No	Second DF-10 brigade.
	636 Brigade	Shaoguan (24.7579, 113.6797)	DF-16	No	First DF-16 brigade.
Base 64 (Gansu, Inner Mongolia, Ningxia, Qinghai, Shaanxi, Xinjiang)	HQ	Lanzhou (35.9387, 104.0159)			
	641 Brigade	Hancheng (35.4754, 110.4468)	DF-31A	Yes	Second DF-31 brigade.
	642 Brigade	Datong (36.9495, 101.6663)	DF-31 (DF-31AG?) ¹²	Yes	DF-31AG seen in 2019.
	643 Brigade	Tianshui (34.5315, 105.9103)	DF-31AG	Yes	First DF-31AG brigade.
	644 Brigade	Hanzhong (33.1321, 106.9361)	(DF-41)	(Yes)	Rumored DF-41 integration base. ¹³
	645 Brigade	Yinchuan (38.5938, 106.2269)?	?	?	Rumored new brigade base.
	646 Brigade	Korla (41.6946, 86.1734)	DF-21C (DF-26?)	(Yes)	DF-26s seen in 2019 and 2020. ¹⁴
647 Brigade	Xining (36.6168, 101.7782)?	?	?	Rumored new brigade base area.	
Base 65 (Jilin, Liaoning, Shandong)	HQ	Shenyang (41.8586, 123.4514)			
	651 Brigade	Dengshahe (39.3028, 122.0654)	DF-21A	Yes	DF-26s seen in 2019. ¹⁵
	652 Brigade	Tonghua (41.6681, 125.9548)? ¹⁶	DF-21C	No	DF-31As seen training in area.
	653 Brigade	Laiwu (36.2332, 117.7154)	DF-21C/D	No	DF-21D seen recently.
	654 Brigade	Dengshahe (39.2353, 122.0440)	(DF-26)	(Yes)	Base under construction.
	655 Brigade	Tonghua (41.7649, 125.9857)?	?	?	Rumored new brigade base area.
656 Brigade	Laiwu/Taian (36.2164, 117.2069) ¹⁷	(DF-31AG?)	?	Rumored new brigade base area.	
Base 66 (Henan)	HQ	Luoyang (34.6405, 112.3823)			
	661 Brigade	Lushi (34.0504, 111.0342) ¹⁸	DF-5B	Yes	HQ base. ¹⁹
	662 Brigade	Luanchuan (33.7883, 111.5925) ²⁰	DF-4, DF-5A/B	Yes	Potentially upgrading to DF-41.
	663 Brigade	Nanyang (33.0117, 112.4145)	DF-31A	Yes	First DF-31A brigade.
	664 Brigade	Yiyang (34.5435, 112.1470)? ²¹	(DF-31AG?)	(Yes)	Possibly upgrading to DF-31AG.
	665 Brigade	Xinxiang (35.3999, 114.1263)? ²²	?	?	Rumored new brigade base area.
666 Brigade	Xinyang (32.1675, 114.1257)	DF-26	Yes	First DF-26 brigade base.	
Total:	40 Brigades			~21	
Base 67 (Shaanxi)	Central nuclear weapons storage complex. Headquartered in Baoji city. Responsible for storing and handling nuclear warheads at nearby underground storage facility as well as smaller regional storage sites located in each regional base area.				

¹ This table is based on: Mark Stokes, *PLA Rocket Force Leadership and Unit Reference*, Project 2049 Institute, April 9, 2018; P.W. Singer and Ma Xiu, “China’s missile force is growing at an unprecedented rate,” *Popular Science*, February 25, 2020; Decker Eveleth, “Mapping the People’s Liberation Army Rocket Force,” *aboyandhis.blog*, April 9, 2020; individual researchers such as Vinayak Bhat and others who prefer to remain autonomous; and the authors’ observations and estimates. The table is a work in progress.

² Each brigade has several (up to six) launch battalions and support units located in the region. A question mark indicates an unknown or uncertain location. In addition, PLA Rocket Force operates several training areas, such as Jilantai and Haixi/DaQaidam, where launch units visit to exercise or integrate new equipment.

³ The assigned missile type is listed first, followed by other types (in parenthesis) sometimes seen at base. Nuclear DF-21 bases are difficult to determine.

⁴ Previously with DF-15 SRBM.

⁵ In addition to DF-16, satellite photos occasionally show trucks that resemble DF-21C and DF-26, but they appear to be transporters.

⁶ Some identify this rumored unit at older Xianyou base (25.3165°, 118.7119°) but it is uncertain.

⁷ Some put location of 631 Brigade HQ further north (26.5782, 109.6703).

⁸ The brigade has 4–5 silos (plus possibly decoy silos) and an underground missile storage facility.

⁹ The brigade has 4–5 silos plus possibly decoy silos.

¹⁰ Location is not known.

¹¹ This is a former DF-4 ICBM brigade area. Possibly upgrading to DF-41, potentially with silos.

¹² DF-31 launchers were displayed in June 2011. Hans M. Kristensen, “Chinese Mobile ICBMs Seen In Central China,” *FAS Strategic Security Blog*, March 1, 2012, <https://fas.org/blogs/security/2012/03/df-31deployment/>. In June 2019, a possible DF-31AG was seen at the 642 Brigade launch unit training site at Haiyan.

¹³ Decker Eveleth, “China’s Mobile ICBM Brigades: The DF-31 and DF-41,” *aboyandhis.blog*, July 2, 2020, <https://www.aboyandhis.blog/post/china-s-mobile-icbm-brigades-the-df-31-and-df-41>

¹⁴ Hans M. Kristensen, “China’s New DF-26 Missile Shows Up At Base In Eastern China,” *FAS Strategic Security Blog*, January 21, 2019, <https://fas.org/blogs/security/2020/01/df-26deployment/>

¹⁵ Hans M. Kristensen, “China’s New DF-26 Missile Shows Up At Base In Eastern China,” *FAS Strategic Security Blog*, January 21, 2019, <https://fas.org/blogs/security/2020/01/df-26deployment/>. Dengshahe upgraded from DF-3A to DF-21A in 2014. Hans M. Kristensen, “Chinese Nuclear Missile Upgrade Near Dalian,” *FAS Strategic Security Blog*, May 21, 2014, <https://fas.org/blogs/security/2014/05/dengshaheupgrade/>

¹⁶ Some identify this unit as a technical support regiment.

¹⁷ Location highly uncertain. 656 Brigade is rumored in Laiwu to the east, which already has 653 Brigade.

¹⁸ Some place 661 Brigade HQ in Lingbao to the north (34.5166, 110.8619), which might be training unit.

¹⁹ The brigade probably has 4–5 silos plus possibly decoy silos.

²⁰ Potential silos are located around Shecunzhen to the east.

²¹ The status of the Yiyang complex is unclear. Long said to be a PLARF training base, it was rumored in 2020 to have become a base for the 665 Brigade with the DF-31AG. But training appears to continue with DF-16 MRBMs visible in 2017, a DF-31A visible in 2019, and DF-31AG training reported in 2020.

²² Location is not known. Other potential candidate site is at 35.2604, 114.1090.