




Missile Launches by North Korea (Nov. 2022-)

- North Korea launched ballistic missiles 31times (59 launches) in total in 2022, six times in January, once in February, three times in March, four times in May, once in June, three times in September, five times in October, five times in November, three times in December. It also launched once in January, three times in February in 2023 (4 launches).

* Launches using ballistic missile technology violate UN Security Council resolutions regardless of their range.

* North Korea has conducted missile launches 37 times(at least 73 launches), including cruise missiles, in 2022 (based on announcements of the Ministry of Defense).

	2022												2023			
	① 11/2	② 11/2	③ 11/2	④ 11/3	⑤ 11/3	⑥ 11/3	⑦ 11/9	⑧ 11/17	⑨ 11/18	⑩ 12/18	⑪ 12/23	⑫ 12/31	⑬ 1/1	⑭ 2/18	⑮ 2/20	⑯ 2/20
Distance	Approx. 150km	Approx. 200km	Under analysis	Approx. 750km	Approx. 350km	Approx. 500km	Approx. 250km	Under analysis	Approx. 1,000km	Approx. 500km	Approx. 300km	Approx. 350km	Approx. 350km	Approx. 900km	Approx. 400km	Approx. 350km
Launching Site	Around East coast	Around East coast	Around East coast	Around West coast	Inland area	Inland area	Around West coast	Around East coast	Around Pyong-yang	Tongch ang-ri area	Around Pyong-yang	Around Pyong-yang	Around West coast	Around Pyong-yang	Around West coast	Around West coast
Type	Ballistic missile	Ballistic missile	Ballistic missile	possible ICBM ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	ICBM-class ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	ICBM-class ballistic missile	Short range ballistic missile	Short range ballistic missile
North Korea's Announcement							(N/A)	(N/A)	ICBM "Hwasong-17"	Important final stage test for the development of reconnaissance satellite (N/A)		Super-large multiple rocket launchers	Super-large multiple rocket launchers	ICBM "Hwasong-15"	600mm multiple rocket launchers	600mm multiple rocket launchers
Number of missiles	1	1	1	1	2	3	1	1	1	2		3	1	1	1	1
Images released by North Korea							(N/A)	(N/A)			(N/A)			(N/A)	(N/A)	

Launches by North Korea (2022.11-)
* This image is for illustrative purposes.

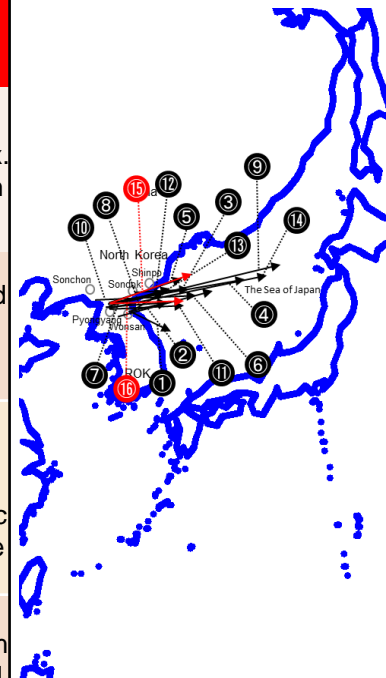


Image released by North Korea at the launch on November 18, 2022

*Based on materials of the Ministry of Defense

Missile Launches by North Korea (Sep-Oct. 2022)

	2022										
	① 9/25	② 9/28	③ 9/28	④ 9/29	⑤ 10/1	⑥ 10/1	⑦ 10/4	⑧ 10/6	⑨ 10/6	⑩ 10/9	⑪ 10/14
Distance	Approx. 650km	Approx. 350km	Approx. 300km	Approx. 300km	Approx. 400km	Approx. 350km	Approx. 4600km	Approx. 350km	Approx. 800km	Approx. 350km	Approx. 650km
Launching Site	Inland area	Around West coast	Around West coast	Around West coast	Around West coast	Around West coast	Inland area	Inland area	Inland area	Around East Coast	Around Pyong-yang
Type	Ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	IRBM-class ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile	Ballistic missile
North Korea's Announcement	Ballistic missile	Ballistic missile	Ballistic missile	Tactical Ballistic missiles	Tactical Ballistic missile	Tactical Ballistic missile	New-type ground-to-ground IRBM	Super-large multiple rocket launchers	Tactical Ballistic missile	Super-large multiple rocket launchers	(N/A)
Number of missiles	1	1	1	2	1	1	1	1	1	2	1
Images released by North Korea											(N/A)

Launches by North Korea (2022.09-10)
* This image is for illustrative purposes.



Image released by North Korea at the launch on October 4, 2022

*Based on materials of the Ministry of Defense

Missile Launches by North Korea (Jan-Mar. 2022)







	2022									
	1/5	1/11	1/14	1/17	1/27	1/30	2/27	3/5	3/16	3/24
Distance	Approx. 500km (if launched in a ballistic trajectory)	Under analysis	Approx. 400km (if launched in a ballistic trajectory)	Approx. 300km (if launched in a ballistic trajectory)	Under analysis	Approx. 800km	Approx. 300km	Approx. 300km	(N/A)	Approx. 1100 km
Launching Site	Inland area	Inland area	North-western Area	Western Area	Western Area	Inland area	Around West coast	Around West coast	Around Pyong-yang	Around Pyong-yang
Type	Ballistic missile	Ballistic missile	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	IRBM-class ballistic missile	ICBM-class ballistic missile	ICBM-class ballistic missile	Ballistic missile	ICBM-class ballistic missile
North Korea's Announcement	Hyper-Sonic missile	Hyper-sonic missile	Tactical guided missiles (railway-borne missile operating system)	Tactical guided missiles	Ground-to-ground tactical guided missiles	Ground-to-ground IRBM "Hwasong-12"	Important test for developing a reconnaissance satellite	Important test under the plan of developing a reconnaissance satellite	(N/A)	ICBM "Hwasong-17"
Number of missiles	1	1	2	2	2	1	1	1	1	1
Images released by North Korea							(N/A)	(N/A)	(N/A)	



Image released by North Korea at the launch on January 11, 2022



Image released by North Korea at the launch on March 24, 2022

Missile Launches by North Korea (2020-2021)

- North Korea launched ballistic missiles including possible new type ones into the Sea of Japan for four times in March 2020, once in March, twice in September, and once in October 2021.

* Launches using ballistic missile technology violate UN Security Council resolutions regardless of their range.

	2020				2021			
	3/2	3/9	3/21	3/29	3/25	9/15	9/28	10/19
Distance	Approx. 240km	Up to approx. 200km	Approx. 400km	Approx. 250km	Approx. 450km	Approx. 750km	Under analysis	Approx. 600km
Launching Site	Around Wonsan	Around Sondok	Around Sonchon	Around Wonsan	Around Sondok	Inland area	Inland area	Around Shinpo
Type	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	Ballistic missile	Short range ballistic missile	Launch using ballistic missile technology	Submarine-launched ballistic missile
North Korea's Announcement	Artillery rocket	(N/A)	Tactical guided weapon	Super-large multiple rocket launchers	New type tactical guided missile	(N/A) (Train-based launched)	Hypersonic missile "Hwasong-8"	New type submarine-launched ballistic missile
Number of missiles	2	2	2	2	2	2	1	1
Images released by North Korea								



Image released by North Korea at the launch on March 2, 2020



Image released by North Korea at the launch on March 9, 2020



Image released by North Korea at the launch on March 21, 2020

*Based on materials of the Ministry of Defense

Missile Launches by North Korea (2019)

- North Korea launched ballistic missiles including possible new type ones into the Sea of Japan for twice in May, twice in July, five times in August, once in September, twice in October, once in November 2019.

* Launches using ballistic missile technology violate UN Security Council resolutions regardless of their range.

2019													
	5/4	5/9	7/25	7/31	8/2	8/6	8/10	8/16	8/24	9/10	10/2	10/31	11/28
Distance	Approx. 250km	Approx. 400km and 250km	Approx. 600km	Approx. 250km	Approx. 250km	Approx. 450km	Approx. 400km	Approx. 250km	Approx. 350~400 km	Up to 300~350 km	Around 450km	Around 350~400 km	Around 380km
Launching Site	Around Hodo	Around Kusong	Around Hodo	Around Wonsan	Around Yonghung	Around Kwail	Around Hamhung	Around Tongchon	Around Sondok	Around Kaechon	Around Wonsan	Around Sunchon	Around Yonpo
Type	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	possible short range ballistic missile	possible short range ballistic missile	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	Short range ballistic missile	Submarine-launched ballistic missile	Short range ballistic missile	Short range ballistic missile
North Korea's Announcement	multiple rocket launchers and tactical guided weapon	long-range strike means	New type tactical guided weapon	large-caliber multiple launch guided rocket system	large-caliber multiple launch guided rocket system	New type tactical guided missile	New type weapon	New type weapon	Super-large multiple rocket launchers	Super-large multiple rocket launchers	Submarine-launched ballistic missile "Pukgukson g 3"	Super-large multiple rocket launchers	Super-large multiple rocket launchers
Number of missiles	2	2	2	2	2	2	2	2	2	2	1	1	1
Images released by North Korea			