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ASSEMBLY — 42ND SESSION

EXECUTIVE COMMITTEE

Agenda Item 22: Other high-level policy issues to be considered by the Executive Committee

SUPPLEMENTARY INFORMATION TO A42-WP/96 “INFRACTION BY THE ROK TO THE CONVENTION – UNMANNED AIRCRAFT INFILTRATION”

(Presented by the Democratic People’s Republic of Korea)

EXECUTIVE SUMMARY	
Historically, the Republic of Korea (ROK) infringed the sovereignty of the Democratic People’s Republic of Korea (DPRK) and jeopardized the safety and security of the civil aviation by infiltrating numerous unmanned aircraft (UA) into the DPRK. This information paper describes details of the evidences which could not be reflected in the Working Paper (A42-WP/96) “Infraction by the ROK to the Convention – Unmanned Aircraft Infiltration” due to the page limit.	
<i>Strategic Goals:</i>	This information paper relates to Strategic Goal: <i>Every Flight is Safe and Secure.</i>
<i>Financial implications:</i>	This information paper has no direct financial implication.
<i>References:</i>	Doc 7300, <i>Convention on International Civil Aviation</i> Annex 2 – <i>Rules of the Air</i> Annex 11 – <i>Air Traffic Services</i> Annex 15 – <i>Aeronautical Information Services</i> Doc 4444, <i>Air Traffic Management</i> Doc 7559, <i>Rules of Procedure for the Council</i> Doc 7600, <i>Standing Rules of Procedure of the Assembly of the International Civil Aviation Organization</i> Doc 10019, <i>Manual on Remotely Piloted Aircraft Systems (RPAS)</i> C-DEC 234/13

1. INTRODUCTION

1.1 In this paper, the term “Unmanned Aircraft” or “UA” means unmanned aeroplane or unmanned free balloon. The term “UA infiltration” or “Infiltration” means unauthorised flight of the Republic of Korea’s (ROK) UA in Pyongyang Flight Information Region (FIR).

1.2 UA infiltration since 1950s has enlarged its coverage into the deep inside of Pyongyang FIR, infiltrating beyond the DPRK - ROK border since 2000s.

1.3 The aim of UA infiltration is to drop leaflets and materials for slandering DPRK.

1.4 Several kinds of UAs including autonomous unmanned aeroplane equipped with GPS are infiltrating. In addition, ROK has gone so far as dropping leaflets and materials in Pyongyang FIR by using unmanned Meteorological Observation Balloon (MOB)

2. CASE STUDY

Note: — The historical records of UA infiltration by ROK are extensive, so only 5-year records for 2020-2025 are referred in Appendix D. The cases as mentioned below are as for only recent typical records.

2.1 UA Infiltration on 8 October 2024

2.1.1 The infiltration of unmanned aeroplanes into the airspace over Pyongyang occurred on 3, 8, 9 and 10 October 2024, and the unmanned aeroplane of 8 October 2024 crashed in the suburbs of the City. The photos of the crashed unmanned aeroplane remnants are referred in figure AC.1 and AC.2.

2.1.2 The flight control module of the crashed UA was completely analysed. The investigation result shows that it planned to take off from the ROK, to drop leaflets over Pyongyang and to fly back to the ROK. Collected flight plans and flight logs are reflected on figure AA.2.

2.1.3 The investigation revealed the crashed one was the light drone for long-range reconnaissance equipped by the Drone Operation Command of the ROK military. Refer to figure AA.1.

2.1.4 The planned flight route and actual flight track of the crashed one proves that it violated international routes W1 and W5, domestic routes Y11 and Y12, STARs and approach path RWY 35 of Pyongyang International Airport, Pyongyang sightseeing flight route, Pyongyang prohibited area, and category E airspace of west sector in Pyongyang FIR. The routes violated by the ROK are referred in figure AA.2.

2.2 UA Infiltration on 16 November 2024

2.2.1 This infiltration is distinguished from others that the numerous unmanned free balloons were infiltrated per day by ROK into the 13 places along the border between DPRK and ROK and the deep inside of Pyongyang FIR.

2.2.2 All those aforementioned balloons were heavy unmanned free balloons. The DPRK’s ATS authority was not notified in advance about them.

2.2.3 That day, an unmanned free balloon flying on the outskirts of Pyongyang was sighted by the crew members of a passenger aircraft which was flying in the vicinity of Pyongyang International Airport. The crew reported it to ATC. The crew was able to visually identify the balloon at the distance of about 6 km. Refer to Appendix B for the air-reports on UA infiltration (2024~2025).

3. IMPLICATIONS

3.1 Threat to flight safety:

3.1.1 **Risk of strike:** it is the condition of accident which is more dangerous than bird strike;

3.1.2 **Risk of crash:** UAs and the objects they carry may cause crash by being tangled to or sucked into the power plant of other aircraft;

3.1.3 **Risk of collision:** In case of sudden avoiding manoeuvring after the UA is in sight, the probability to collide with other traffic in the vicinity is high. The risk of collision with the crashing aircraft described in 3.1.2 should be considered;

3.1.4 **Disturbance to Air Traffic Flow:** UA infiltration is autonomous or free flight without prior notice, flight application, or submission of flight plan. If an infiltration is reported, ATS authority should ban a certain portion of airspace or prohibit the take-off or landing for a certain period. Especially, the risk is very high in case of limited visibility or night time flight.

3.2 **Risk of spread of disease:** At the end of the April 2022, COVID-19 virus was spread into the DPRK for the first time by the objects dropped from the ROK's balloon in Kumgang county, Kangwon province, DPRK. Until then, the DPRK was one and only COVID-19 virus-free region registered in World Health Organization.

3.3 Additional workload and psychological stress:

3.3.1 During all phases of flight, the crew should intensify the visual watch on the UAs and it gives the additional workload to the crew.

3.3.2 During all phases of flight, the crew and air traffic controllers are psychologically stressed due to the risk of possible collision with the UA. Infiltration causes the anxiety of passengers and the belief in safety of air travel is decreased.

3.4 **Additional financial burden:** The aircraft should deviate or detour the planned route if it encounters risk of collision with the UA. It causes the additional fuel consumption and emission of CO2. Furthermore, instant coordination communication and sharing of surveillance data with military authority, increased visual watchers and equipment cause the increased financial burden.

4. **DIRECT RESPONSIBILITY OF ROK**

4.1 The articles of the Convention and SARPs regarding the responsibility of a Contracting State in relation to UA includes: Article 3 “Civil and state aircraft”; Article 8 “Pilotless aircraft”; Article 12 “Rules of the air”; Article 14 “Prevention of spread of disease”; Annex 2, Appendix 5, 2 general operating rules; Annex 11 para. 7.4.

4.2 According to the international regulations mentioned above, the ROK is directly responsible for the violations to the Convention described in the following subparagraphs.

4.2.1 All UAs originated from the ROK didn’t get the approval from the DPRK’s appropriate authority prior to entering Pyongyang FIR.

4.2.2 The ROK government jeopardized the safety of civil aviation by intentional infiltration of military unmanned aeroplanes. It also didn’t prevent the ROK’s civil organizations and individuals from infiltrating the UAs into Pyongyang FIR without approval of the DPRK’s appropriate authority.

4.2.3 The ROK’s governmental units intentionally attached the leaflets and other materials to the MOBs for slandering DPRK whenever they launched from ROK.

4.2.4 The ROK spread COVID-19 virus by the UAs.

4.2.5 The ROK aggravated the tension of Korean peninsula by the massive UA infiltration.

4.3 The ROK is the ICAO council member as well as a Contracting State with more than 90% of USOAP-CMA EI score. ICAO should review the ROK’s position and its national safety oversight activities.

5. **MEASURES TAKEN BY THE DPRK**

5.1 The National Aviation Administration (NAA: the DPRK’s ministry responsible for civil aviation) revised and supplemented the process in the coordination procedures with the military authorities regarding the information of UAs. Under the close coordination with the military and security authorities, 24h surveillance information is collected and informed to the air operators and the crew in flight through ATC.

5.2 Under the coordination with the public health authorities, the NAA established the strict periodic health examination procedures for crew and passengers and took measures to prevent the spread of disease by means of air navigation.

5.3 The DPRK presented this matter to ICAO. The ICAO Council, during the 13th Meeting of its 234th Session on 1 April 2025, discussed the ROK’s UA infiltration. This matter was not solved by the opposition of some Council Members who are hostile to the DPRK. The DPRK will continue to present the evidences to the Council whenever the ROK’s UA infiltration happens in the future.

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APPENDIX A. CIVIL ROUTES THREATENED ON 8 OCTOBER 2024

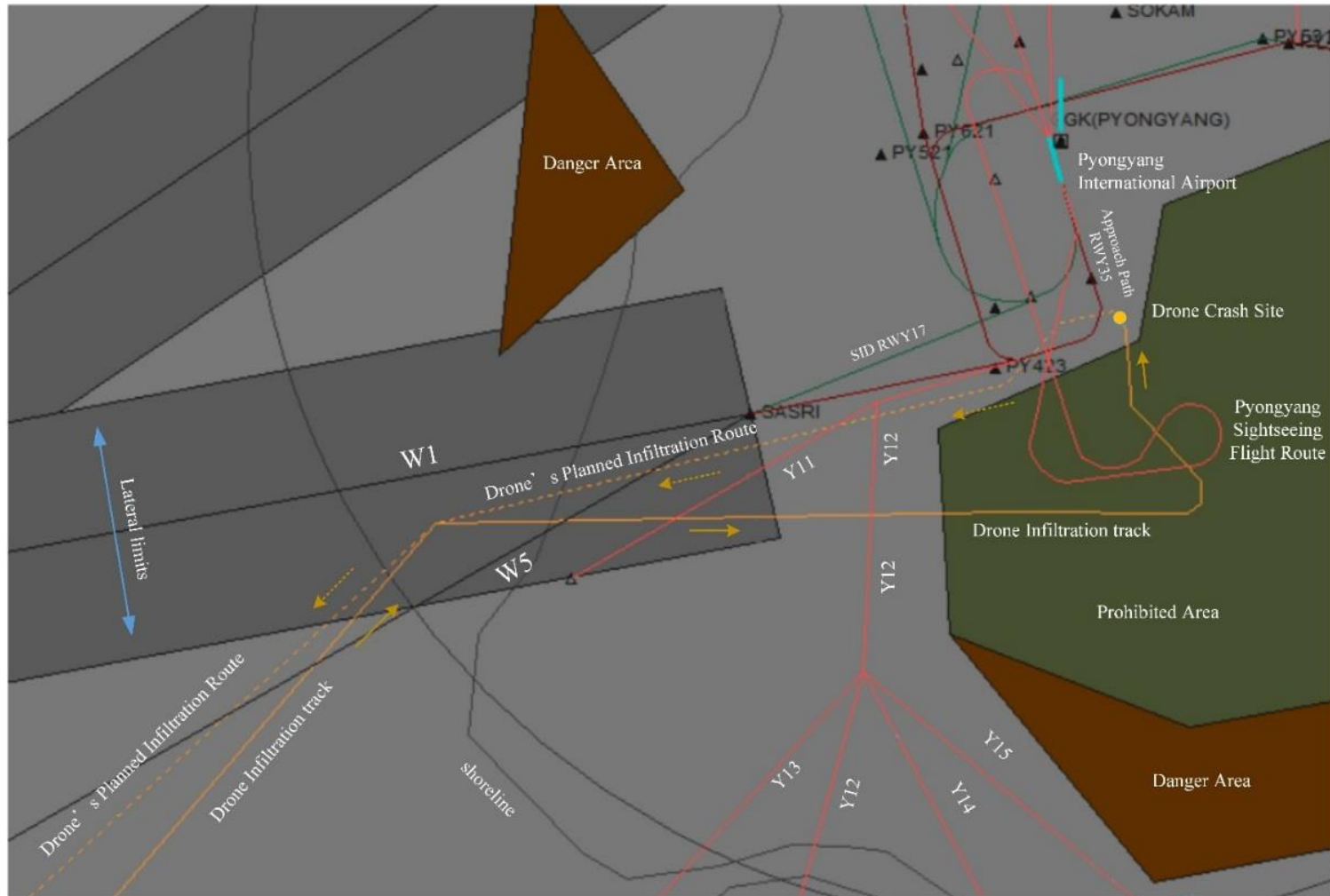


Figure AA.2 – International or domestic routes violated by ROK's unmanned aeroplane on 8 October 2024

Note 1. – The details of the international routes in Pyongyang FIR are contained in the DPRK Aeronautical Information Publication (AIP) Part 2.

Note 2. – The specifications of international routes W1 and W5 are as follows (please refer the DPRK AIP ENR 3.1-4 for more details):

W1: lateral limit 5NM, significant waypoints SASRI and PONIL, minimum Flight Level 7000ft, airspace category A, E, G

W5: lateral limit 5NM, significant waypoints SASRI and DUMAN, minimum Flight Level 7000ft, airspace category A, E, G

The minimum Flight Level in here is the design-purpose value for the approach to and landing on Pyongyang International Airport. It is not for the restriction of flight manoeuvrings required during the emergency or necessary situation.

Note 3. – Pyongyang sightseeing flight route is special route since 1957 for sightseeing over Pyongyang City in the air. Its flight altitude is 300m, 600m or higher if required.

Note 4. – Y11 and Y12 are the domestic routes connecting the Pyongyang International Airport and domestic airports in south-western region in the DPRK.

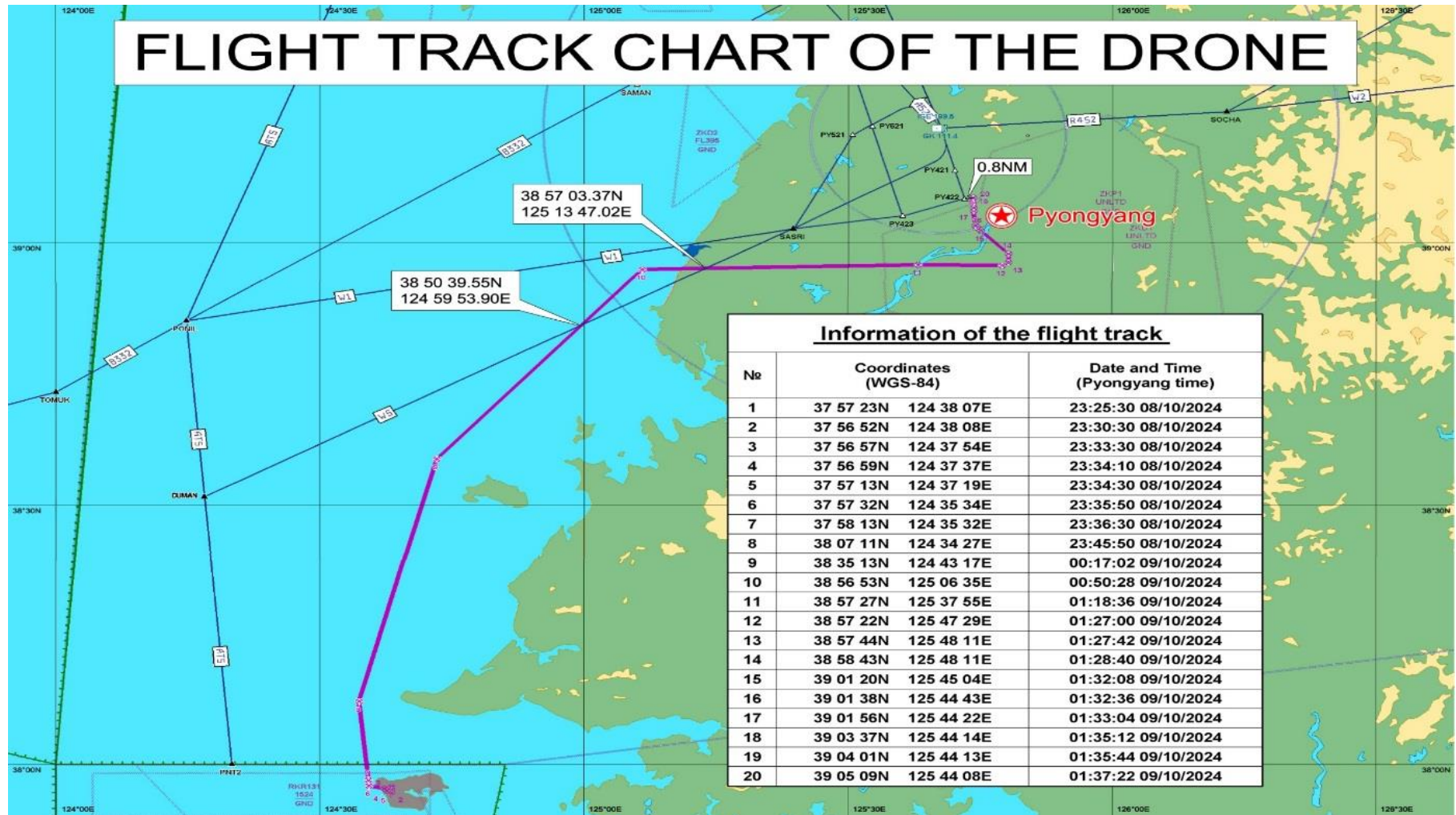


Figure AA.3 – the flight track of the unmanned aeroplane that infiltrated on 8 October 2024

Note 1. – The flight track depicted in the above chart are based on the analysis of joint investigation group to the crashed unmanned aeroplane's flight control module and program.

Note 2. – In the chart, the pink line is the infiltration track. The unmanned aeroplane took off at the ROK Paekryong Island at 23:25:30, soon crossed temporary FIR boundary, infiltrated into category E airspace of Pyongyang FIR to fly across the west sea, crossed international routes W1 and W5, crossed domestic routes Y11 and Y12, intruded Pyongyang prohibited area, crossed Pyongyang sightseeing flight route, and crashed at the distance 0.8NM from the approach path RWY35 in Pyongyang International Airport. If it hadn't crashed and continued its flight via planned route, it would have crossed SIDs RWY17 in Pyongyang International Airport, Y12, 11, W1, W5 and category E airspace over west sea, and landed at Paekryong Island.

Note 3. – The above chart was presented and explained by the DPRK Delegation (virtual participation) to the ICAO Council during its 13th Meeting of 234th Session on 1 April 2025. The chart clearly shows that the track is crossing or in close vicinity of the civil routes. In spite of this fact, some Council members alleged that there was no enough evidence of threat to the civil aviation safety.

Note 4. – The above chart does not contain domestic routes and some SIDs and approach paths.

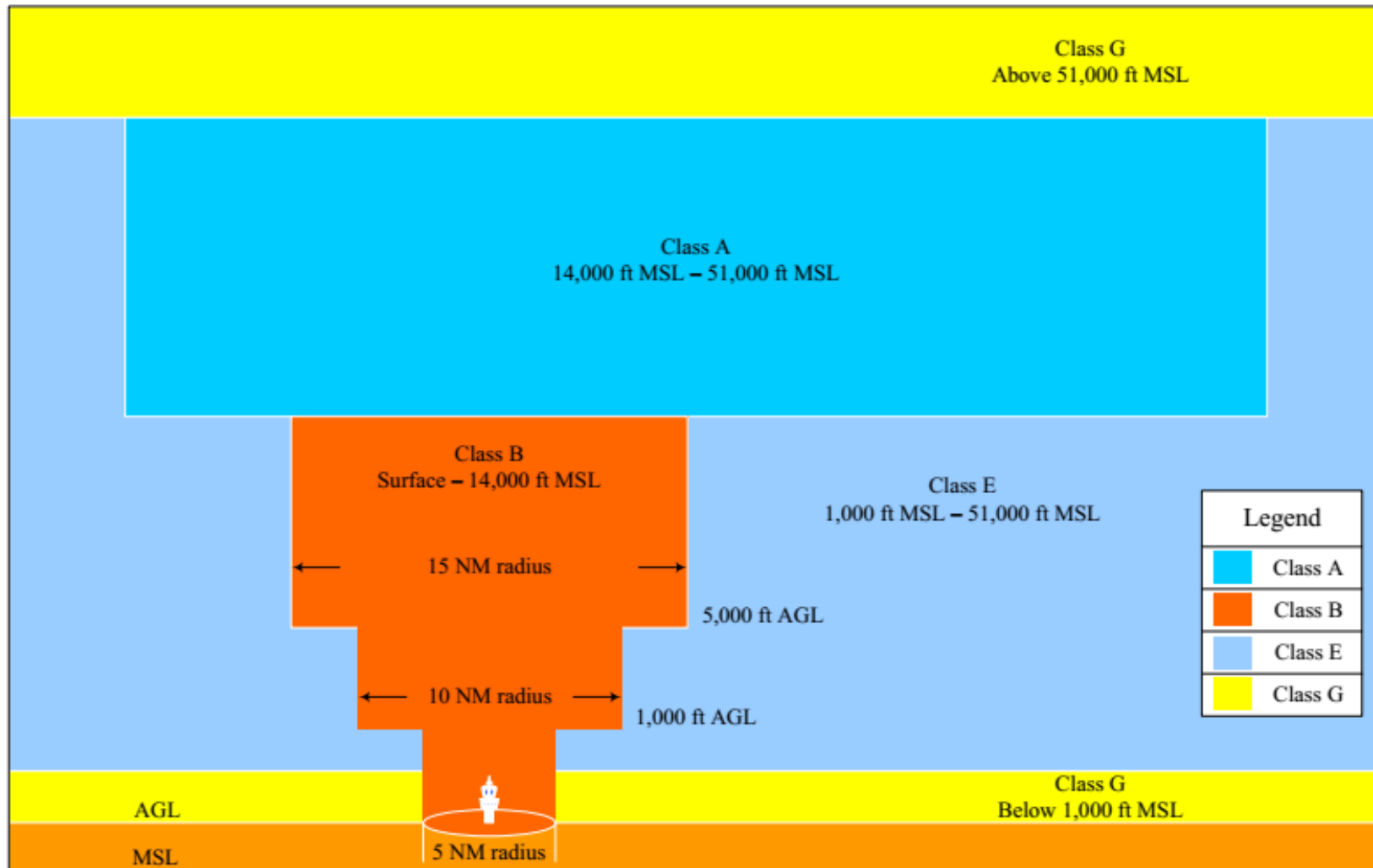


Figure AA.4 – the airspace classification of the Pyongyang FIR

Note 1.- Pyongyang FIR has category A, B, E and G airspace. Refer the DPRK AIP ENR. 1.4 for the details.

Note 2.- Category A airspace is all of airways from 14000ft to 51000ft above MSL. Only IFR is applied in this airspace and ATC separation is provided. All aircraft must maintain two-way communication with ATC.

Note 3.- Category B airspace is controlled aerodrome airspace and only aircraft with specified equipment and instruments can utilize the airspace under the instruction and separation of ATC.

Note 4.- Category E airspace is the controlled airspace excluding category A and B airspace from 1000ft above MSL or ground level to 51000ft. Only aircraft with radio communication equipment for ATC is allowed to this airspace.

Note 5.- Category G airspace is the uncontrolled airspace excluding category A, B and E airspace below 1000ft above MSL or ground level and from 51000ft above MSL.

APPENDIX B. AIR REPORTS ON ROK'S UA INFILTRATION (2024-2025)

Note 1.- All crews were, prior to or during the flight, informed of the estimation or alert information on UA infiltration from ATC. Such information was provided mainly from military authority according to the specified coordination procedure.

Note 2.- Refer Working Paper A42-WP/96 "Infraction by the ROK to the Convention –unmanned aircraft infiltration" for air reports on ROK's UA infiltration from 2024 to 2025.

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APPENDIX C. REMANTS OF CRASHED UA



Photo AC.1 – crashed unmanned aeroplane found in Pyongyang on 13 October 2024 (at the time of finding)



Photo AC.2 – same one with above (prior to technical investigation)



Photo AC.2.1 – the military unmanned aeroplane opened to public at the event marking the “ROK Army Day”



Photo AC.3 – records of CCTV that detected the unmanned aeroplane dropping leaflets in the central area of Pyongyang in the night time (9 October 2024)



Photo AC.4– the leaflets and leaflet-binding-boxes dropped by the unmanned aeroplane (9 October 2024)



Photo AC.5 – crashed balloon on 16 November 2024



Photo AC.6 – crashed balloon on 16 November 2024



Photo AC.7 – crashed balloon on 16 November 2024



Photo AC.8 – crashed balloon on 16 November 2024



Photo AC.9 – objects dropped by the balloon on 16 November 2024



Photo AC.10 – objects dropped by the balloon on 16 November 2024



Photo AC.11- crashed balloon on 26 November 2024



Photo AC.12- crashed balloon on 26 November 2024



Photo AC.13- objects carried by the balloon above



Photo AC.14- objects carried by the balloon above



Photo AC.15- crashed balloon on 26 November 2024



Photo AC.16- objects carried by the ballon left



Photo AC.17- crashed balloon on 26 November 2024



Photo AC.18- objects carried by the ballon left

Note 1. – All infiltrating UAs carry various leaflets, literatures, storage device and radios and often contains money notes, foods and daily necessities to stimulate the curiosity as a lure.

Note 2. – It may cause more damaging strike than the bird strike in case that UA and its carriages collide with the other aircraft.

Note 3. – All infiltrating UAs didn't have any lights, transponder, or any identification means for ATC.

Note 4. – The ROK governmental units and the operators, who launched or operated all those UAs for infiltration, didn't provide any prior notice to the DPRK ATS authority. And also, they didn't provide any discrete information during the flight. None of the droppings by UAs during their flight were applied for the approval from the DPRK authorities.

**APPENDIX D. HISTORICAL COMPENDIUM ON VISUAL IDENTIFICATION OF
UNMANNED FREE BALLOONS REPORTED OR INFORMED TO ATC WITHIN THE DPRK
2020~2025**

(1, 325 balloons)

Note 1. – M=MOB, H=heavy unmanned free balloon, L= light unmanned free balloon

Note 2. – The data in the table is related to the flight of unmanned free balloons informed to ATC through various authorities after the visual identification. The actual numbers of unmanned free balloons and unmanned aeroplanes is much more than the ones identified visually or through other information means.

Note 3. – Due to the page limit, only typical sites of launches of the unmanned free balloons in the table are referred below the table.

Date of visual identification	Visual identifier's position	Category	Numbers
2020.3.18	S. Hwanghae Chongdan	M	1
2020.3.25	S. Hwanghae Yonan	M	1
2020.3.28	Kangwon Kimhwa	M	1
2020.3.31	S. Hwanghae Paechon	M	1
2020.4.4	S. Hwanghae Paechon	M	1
2020.4.18	S. Hwanghae Sinwon	M	1
2020.4.21	S. Hwanghae Pyoksong	M	1
2020.4.27	N. Hwanghae Kumchon	M	1
2020.5.7	Haeju	M	1
2020.5.8	S. Hwanghae Paechon	M	1
2020.5.17	N. Hwanghae Sohung	M	1
2020.5.19	S. Hwanghae Pongchon	M	1
2020.5.23	S. Hwanghae Chongdan	M	1
2020.5.26	N. Hwanghae Pyongsan	M	1
2020.5.28	S. Hwanghae Paechon	M	1
2020.5.30	S. Hwanghae Sinwon	M	1
2020.5.31	S. Hwanghae Sinchon	M	1
2020.5.31	S. Hwanghae Jaeryong	M	1
2020.6.1	S. Hwanghae Paechon	M	1
2020.6.4	S. Hwanghae Paechon	M	1
2020.6.4	S. Hwanghae Yonan	M	1
2020.6.5	S. Hwanghae Yonan	M	1
2020.6.6	N. Hwanghae Singye	M	1
2020.6.7	N. Hwanghae Koksang	H	1
2020.6.10	S. Hwanghae Ongjin	M	1

2020.6.11	S. Hwanghae	Yonan	M	1
2020.6.13	S. Hwanghae	Paechon	M	1
2020.6.13	S. Hwanghae	Yonan	M	1
2020.6.14	S. Hwanghae	Pongchon	M	1
2020.6.14	S. Hwanghae	Kangryong	M	1
2020.6.18	S. Hwanghae	Chongdan	M	1
2020.6.24	S. Hwanghae	Sohung	M	1
2020.6.29	Haeju		M	1
2020.9.16	N. Hwanghae	Sinpyong	H	1
2020.9.24	N. Hwanghae	Sangwon	H	1
2020.9.25	N. Hwanghae	Sangwon	H	1
2020.9.27	N. Hwanghae	Sangwon	H	2
2021.1.3	Kangwon	Huiyang	M	1
2021.1.16	Kaesong	Jangpung	M	1
2021.1.28	Kangwon	Pyonggang	M	1
2021.2.1	S. Hwanghae	Ongjin	M	1
2021.2.2	Kangwon	Huiyang	M	1
2021.2.3	Kangwon	Pangyo	H	2
2021.2.12	S. Hwanghae	Sinwon	M	1
2021.2.13	S. Hwanghae	Pongchon	M	1
2021.2.13	S. Hwanghae	Paechon	M	1
2021.2.20	S. Hwanghae	Pongchon	M	1
2021.2.21	N. Hwanghae	Singye	M	1
2021.2.21	S. Hwanghae	Paechon	M	1
2021.2.21	Kaesong	Panmun	M	1
2021.2.27	S. Hwanghae	Chongdan	M	1
2021.3.21	Kangwon	Kumgang	M	1
2021.3.24	S. Hwanghae	Sinwon	M	1
2021.3.27	N. Hwanghae	Koksan	M	1
2021.3.30	Kaesong	Kaepung	M	1
2021.4.2	S. Hwanghae	Kangryong	M	1
2021.4.4	S. Hwanghae	Chongdan	M	1
2021.4.6	S. Hwanghae	Yonan	M	1
2021.4.7	Kaesong	Ryonghung	M	1
2021.4.8	N. Hwanghae	Kumchon	M	1
2021.4.9	S. Hwanghae	Paechon	M	1
2021.4.12	S. Hwanghae	Yonan	M	1
2021.4.13	N. Hwanghae	Sohung	M	1
2021.4.13	N. Hwanghae	Pyongsan	M	1
2021.4.17	N. Hwanghae	Pyongsan	M	1
2021.4.18	Kangwon	Pangyo	M	1
2021.4.22	S. Hwanghae	Pyoksong	M	1

2021.4.23	S. Hwanghae	Samchon	M	1
2021.4.23	S. Hwanghae	Taetan	M	1
2021.4.24	Haeju		M	1
2021.4.26	S. Hwanghae	Kangryong	M	1
2021.4.29	N. Hwanghae	Sohung	M	1
2021.4.29	N. Hwanghae	Pyongsan	M	1
2021.4.30	N. Hwanghae	Rinsan	M	1
2021.5.1	S. Hwanghae	Pyoksong	M	1
2021.5.3	Kaesong	Kaepung	M	1
2021.5.5	N. Hwanghae	Koksan	M	1
2021.5.7	Kangwon	Sepo	M	1
2021.5.10	N. Hwanghae	Pyongsan	M	1
2021.5.11	S. Hwanghae	Yonan	M	1
2021.5.12	S. Hwanghae	Chongdan	M	1
2021.5.13	S. Hwanghae	Yonan	M	2
2021.5.15	S. Hwanghae	Pyoksong	M	1
2021.5.15	Haeju		M	1
2021.5.16	S. Hwanghae	Sinwon	M	1
2021.5.17	N. Hwanghae	Rinsan	M	1
2021.5.17	S. Hwanghae	Jaeryong	M	1
2021.5.18	S. Hwanghae	Pongchon	M	1
2021.5.18	S. Hwanghae	Sinchon	M	1
2021.5.19	S. Hwanghae	Yonan	M	1
2021.5.20	S. Hwanghae	Sinwon	H	1
2021.5.20	S. Hwanghae	Unchon	M	1
2021.5.21	S. Hwanghae	Pyoksong	M	1
2021.5.21	S. Hwanghae	Kangryong	M	1
2021.5.24	S. Hwanghae	Pongchon	M	1
2021.5.25	S. Pyongan	Maengsan	H	1
2021.5.25	Kangwon	Cholwon	M	1
2021.5.27	S. Hwanghae	Paechon	M	1
2021.6.2	Kangwon	Kimhwa	M	1
2021.6.3	S. Hwanghae	Pongchon	M	1
2021.6.4	N. Hwanghae	Kumchon	M	1
2021.6.5	Kaesong	Kaepung	M	1
2021.6.8	S. Hwanghae	Kangryong	M	1
2021.6.10	N. Hwanghae	Hwangju	M	1
2021.6.11	S. Hwanghae	Ongjin	M	1
2021.6.12	S. Hwanghae	Pyoksong	M	1
2021.6.13	S. Hwanghae	Ongjin	M	1
2021.6.14	S. Hwanghae	Kangryong	M	1
2021.6.14	S. Hwanghae	Taetan	M	1

2021.6.21	N. Hamgyong	Hwadae	H	1
2021.6.22	Haeju		M	1
2021.6.22	S. Hwanghae	Kangryong	M	1
2021.6.27	S. Hwanghae	Ongjin	M	1
2021.7.1	S. Hwanghae	Pyoksong	M	1
2021.7.2	S. Hwanghae	Taetan	M	1
2021.7.2	S. Hwanghae	Ongjin	M	1
2021.7.3	Nampho	Ryonggang	M	1
2021.7.4	S. Hwanghae	Anak	M	1
2021.7.4	S. Hwanghae	Sinchon	M	1
2021.7.4	S. Hwanghae	Jaeryong	M	1
2021.7.5	S. Hwanghae	Jangyon	M	1
2021.7.6	S. Hwanghae	Pyoksong	M	1
2021.7.6	S. Hwanghae	Kangryong	M	1
2021.7.7	Haeju		M	2
2021.7.7	S. Hwanghae	Pyoksong	M	1
2021.7.9	S. Hwanghae	Jaeryong	M	1
2021.7.9	S. Hwanghae	Pyoksong	M	1
2021.7.9	S. Hwanghae	Jangyon	M	1
2021.7.10	S. Hwanghae	Sinchon	M	1
2021.7.12	S. Hwanghae	Sinwon	M	1
2021.7.12	S. Hwanghae	Sinchon	M	1
2021.7.17	Kaesong	Kaepung	M	1
2021.7.18	S. Hwanghae	Paecheon	M	1
2021.7.18	S. Hwanghae	Pongchon	M	1
2021.7.19	S. Hwanghae	Pyongsan	M	1
2021.7.23	N. Hwanghae	Kumchon	M	1
2021.7.24	Kaesong	Pakyon	M	1
2021.7.26	Kaesong	Panmun	M	1
2021.7.30	Kaesong	Samgo	M	1
2021.8.1	Kangwon	Chonwon	M	1
2021.8.1	N. Hwanghae	Tosan	M	1
2021.8.2	S. Hwanghae	Sinchon	M	1
2021.8.3	S. Hwanghae	Jangyon	M	2
2021.8.5	S. Hwanghae	Pyonggang	M	1
2021.8.6	S. Hwanghae	Samchon	M	1
2021.8.7	S. Hwanghae	Samchon	M	1
2021.8.7	S. Hwanghae	Jangyon	M	1
2021.8.8	S. Hwanghae	Songhwa	M	1
2021.8.8	Kangwon	Pangyo	M	1
2021.8.11	S. Hwanghae	Chongdan	M	1
2021.8.13	N. Hwanghae	Tosan	M	1

2021.8.14	S. Hwanghae	Songhwa	M	1
2021.8.14	S. Hwanghae	Sinwon	M	1
2021.8.16	Kangwon	Pyonggang	M	1
2021.8.16	S. Hwanghae	Taetan	M	1
2021.8.19	Kaesong	Panmun	M	1
2021.8.21	Pyongsong		M	1
2021.8.21	Kangwon	Kimhwa	M	1
2021.8.21	S. Hwanghae	Samchon	M	1
2021.8.22	Kangwon	Sepo	H	1
2021.8.22	Kangwon	Pyonggang	M	1
2021.8.22	S. Hwanghae	Kangryong	M	1
2021.8.23	Haeju		M	1
2021.8.23	S. Hwanghae	Pyoksong	M	1
2021.8.23	S. Hwanghae	Jaeryong	M	1
2021.8.24	N. Hwanghae	Hwangju	M	1
2021.8.25	Pyongyang	Gangnam	M	1
2021.8.25	S. Hwanghae	Kangryong	M	1
2021.8.26	N. Hwanghae	Rinsan	M	1
2021.8.26	N. Hwanghae	Hwangju	M	1
2021.8.26	N. Hwanghae	Pongsan	M	1
2021.8.26	Nampho	Cholima	M	1
2021.8.27	S. Hwanghae	Sinchon	M	1
2021.8.27	S. Hwanghae	Kangryong	M	1
2021.8.27	S. Hwanghae	Chongdan	M	1
2021.8.28	S. Hwanghae	Chongdan	M	1
2021.8.29	S. Hwanghae	Kangryong	M	1
2021.8.29	S. Hwanghae	Songhwa	M	1
2021.8.29	Haeju		M	1
2021.8.29	Kaesong	Jangpung	M	1
2021.8.29	N. Hwanghae	Pyongsan	M	1
2021.8.30	N. Hwanghae	Pongsan	M	1
2021.8.30	Kangwon	Sepo	M	1
2021.8.30	S. Hwanghae	Samchon	M	1
2021.8.31	Kaesong	Jangpung	M	1
2021.8.31	S. Hwanghae	Kangryong	M	1
2021.9.1	S. Hwanghae	Kangryong	M	1
2021.9.1	S. Hwanghae	Sinwon	M	1
2021.9.1	N. Hwanghae	Tosan	M	1
2021.9.2	S. Hwanghae	Chongdan	M	1
2021.9.2	Kaesong	Panmun	M	1
2021.9.7	S. Hwanghae	Pongchon	M	1
2021.9.9	S. Hwanghae	Chongdan	M	1

2021.9.10	N. Hwanghae	Rinsan	M	2
2021.9.11	S. Hwanghae	Kangryong	M	1
2021.9.12	S. Hwanghae	Jaeryong	M	1
2021.9.13	S. Hwanghae	Kangryong	M	1
2021.9.14	N. Hwanghae	Pongsan	M	1
2021.9.14	S. Hwanghae	Chongdan	M	1
2021.9.14	Pyongyang	Kangnam	M	1
2021.9.16	S. Hwanghae	Pyoksong	M	1
2021.9.18	S. Hwanghae	Pyoksong	M	1
2021.9.19	Kangwon	Sepo	M	1
2021.9.19	S. Hwanghae	Paecheon	M	1
2021.9.19	S. Hwanghae	Pongchon	M	1
2021.9.20	S. Hwanghae	Sohung	M	1
2021.9.20	N. Hwanghae	Unpa	M	1
2021.9.21	Pyongyang	Sadong	M	1
2021.9.22	S. Hwanghae	Anak	M	1
2021.9.22	N. Hwanghae	Sohung	M	1
2021.9.23	N. Hwanghae	Rinsan	M	1
2021.9.23	S. Hwanghae	Chongdan	M	1
2021.9.24	S. Hwanghae	Sinwon	M	1
2021.9.24	S. Hwanghae	Sinchon	M	1
2021.9.26	S. Hwanghae	Taetan	M	1
2021.9.27	N. Hwanghae	Hwangju	M	1
2021.9.28	S. Hwanghae	Paecheon	M	1
2021.9.28	N. Hwanghae	Rinsan	M	1
2021.9.29	S. Hwanghae	Taetan	M	1
2021.9.29	S. Hwanghae	Pongchon	M	1
2021.9.30	S. Hwanghae	Sinwon	M	1
2021.10.1	N. Hwanghae	Pyongsan	M	1
2021.10.1	N. Hwanghae	Sohung	M	1
2021.10.1	Kangwon	Yichon	M	1
2021.10.2	N. Hwanghae	Rinsan	M	1
2021.10.3	N. Hwanghae	Singye	M	1
2021.10.4	N. Hwanghae	Sohung	M	1
2021.10.5	S. Hwanghae	Pongchon	M	1
2021.10.5	S. Hwanghae	Paecheon	M	1
2021.10.6	S. Hwanghae	Yonan	M	1
2021.10.7	N. Hwanghae	Tosan	M	1
2021.10.7	S. Hwanghae	Sinwon	M	1
2021.10.9	N. Hwanghae	Junghwa	M	1
2021.10.10	N. Hwanghae	Singye	M	1
2021.10.11	S. Hwanghae	Pongchon	M	1

2021.10.11	N. Hwanghae	Tosan	M	1
2021.10.11	Kangwon	Pangyo	M	1
2021.10.12	Kaesong	Haeson	M	1
2021.10.15	S. Hwanghae	Kangryong	M	1
2021.10.15	S. Hwanghae	Paecheon	M	2
2021.10.16	S. Hwanghae	Anak	M	1
2021.10.17	N. Hwanghae	Sohung	M	1
2021.10.17	S. Hwanghae	Kangryong	M	1
2021.10.23	Kangwon	Sepo	L	1
2021.10.26	S. Hwanghae	Yonan	M	1
2021.10.29	S. Hwanghae	Kangryong	M	1
2021.11.1	N. Hwanghae	Singye	M	1
2021.11.2	S. Hwanghae	Yonan	M	1
2021.11.2	Kaesong	Haeson	M	1
2021.11.5	S. Hwanghae	Yonan	M	1
2021.11.6	N. Hwanghae	Kumchon	M	1
2021.11.6	S. Hwanghae	Paecheon	M	1
2021.11.7	N. Hwanghae	Rinsan	M	1
2021.11.9	N. Hwanghae	Sohung	M	1
2021.11.10	S. Hwanghae	Yonan	M	1
2021.11.13	N. Hwanghae	Rinsan	M	1
2021.11.13	Kaesong	Jangpung	M	1
2021.11.16	N. Hwanghae	Tosan	M	1
2021.11.18	N. Hwanghae	Tosan	M	1
2021.11.20	Kaesong	Kaepung	M	1
2021.11.25	S. Hwanghae	Paecheon	M	1
2021.11.26	Kaesong	Jangpung	M	1
2021.11.28	S. Hwanghae	Yonan	M	1
2021.11.29	N. Hwanghae	Tosan	M	1
2021.11.29	N. Hwanghae	Sohung	M	1
2021.12.5	S. Hwanghae	Pongchon	M	1
2021.12.5	S. Hwanghae	Sinwon	M	1
2021.12.7	N. Hwanghae	Risan	M	1
2021.12.9	Kangwon	Cholwon	M	1
2021.12.14	S. Hwanghae	Pongchon	M	1
2021.12.29	N. Hwanghae	Unpa	M	1
2022.3.17	S. Hwanghae	Pyoksong	M	1
2022.3.30	S. Pyongan	Yangdok	L	1
2022.4.6	N. Hwanghae	Rinsan	M	1
2022.4.30	N. Hwanghae	Tosan	M	1
2022.5.2	Kaesong	Jangpung	M	1
2022.5.6	S. Hwanghae	Yonan	M	1

2022.5.10	N. Hwanghae	Unpa	M	1
2022.5.11	Kangwon	Cholwon	M	1
2022.5.13	Kangwon	Changdo	M	1
2022.5.14	Kangwon	Changdo	M	1
2022.5.14	N. Hwanghae	Pyongsan	M	1
2022.5.16	Kangwon	Pangyo	M	1
2022.5.24	S. Hwanghae	Kangryong	M	1
2022.5.24	S. Hwanghae	Chongdan	M	1
2022.6.5	S. Hwanghae ⁱ	Paechon	H	1
2022.6.5	Kaesong	Kaepung	M	1
2022.6.13	Kangwon	Pyonggang	L	1
2022.6.14	N. Hwanghae	Pongsan	M	1
2022.6.14	Kangwon	Cholwon	M	1
2022.6.15	Kangwon	Gosan	L	1
2022.6.24	N. Hwanghae	Sohung	M	1
2022.6.24	N. Hwanghae	Unpa	M	1
2022.6.25	N. Hwanghae	Pyongsan	M	1
2022.6.25	N. Hwanghae	Suan	M	1
2022.6.26	S. Hwanghae	Kangryong	M	1
2022.6.29	Kangwon ⁱⁱ	Kimhwa	H	1
2022.6.30	N. Hwanghae	Tosan	M	1
2022.6.30	Kangwon	Kumgang	M	1
2022.7.2	N. Hwanghae	Kumchon	M	1
2022.7.2	N. Hwanghae	Pyongsan	M	1
2022.7.7	Kaesong ⁱⁱⁱ	Jangpung	H	2
2022.7.7	Kangwon	Pangyo	H	1
2022.7.7	Kangwon	Yichon	H	2
2022.7.7	Kangwon	Pyonggang	H	1
2022.7.7	Kangwon	Cholwon	H	4
2022.7.8	Kangwon	Cholwon	H	4
2022.7.8	Kaesong	Jangpung	H	1
2022.7.10	Kaesong	Jangpung	H	1
2022.7.15	Kangwon	Pobdong	H	1
2022.7.20	Kangwon	Cholwon	H	1
2022.7.22	Kangwon	Cholwon	M	1
2022.7.28	Kangwon	Cholwon	M	1
2022.7.30	Kaesong	Jangpung	H	4
2022.7.31	Kangwon	Cholwon	M	1
2022.8.1	Kangwon	Sepo	M	1
2022.8.1	Kangwon	Pyonggang	M	1
2022.8.2	N. Hwanghae	Tosan	H	1
2022.8.2	Wonsan		L	1

2022.8.7	N. Hwanghae	Rinsan	M	1
2022.8.11	N. Hwanghae	Pyongsan	M	1
2022.8.13	Kangwon	Pyonggang	M	1
2022.8.13	N. Hwanghae	Yontan	M	1
2022.8.17	N. Hwanghae	Singye	H	1
2022.8.21	Kangwon	Cholwon	H	1
2022.8.21	N. Hwanghae	Kumchon	M	1
2022.8.27	Kaesong	Jangpung	H	1
2022.8.29	Kaesong	Kaepung	H	12
2022.8.29	Kaesong	Ungchon	H	1
2022.8.29	N. Hwanghae	Kumchon	M	1
2022.8.31	N. Hwanghae	Pyongsan	M	1
2022.9.2	N. Hwanghae	Rinsan	M	1
2022.9.2	N. Hwanghae	Unpa	M	1
2022.9.4	Kangwon ^{iv}	Pyonggang	H	1
2022.9.6	Kangwon	Changdo	M	1
2022.9.8	Kangwon	Kumgang	M	1
2022.9.14	Kaesong	Jangpung	M	1
2022.9.14	Kangwon	Changdo	M	1
2022.9.14	Pyongyang	Kangdong	L	1
2022.9.14	N. Hwanghae	Hwangju	L	1
2022.9.14	Nampho	Taeon	L	1
2022.9.16	Kangwon	Cholwon	H	7
2022.9.16	Kaesong	Jangpung	M	1
2022.9.16	N. Hwanghae	Hwangju	M	1
2022.9.16	Nampho	Kangso	M	1
2022.9.17	Kangwon	Kosong	M	1
2022.9.20	Kangwon	Yichon	M	1
2022.9.23	Kangwon	Pangyo	H	1
2022.9.23	N. Hwanghae	Yonsan	M	1
2022.9.25	S. Pyongan	Huichang	M	1
2022.9.26	N. Hwanghae	Yonsan	M	1
2022.9.26	N. Hwanghae	Yontan	M	1
2022.9.26	N. Hwanghae	Rinsan	M	1
2022.10.8	Kangwon	Cholwon	M	1
2022.10.9	Kaesong	Kaepung	H	6
2022.10.9	S. Hwanghae	Paechon	H	2
2022.10.9	Kangwon	Cholwon	H	1
2022.10.10	Kangwon	Pangyo	M	1
2022.11.1	Kangwon	Cholwon	M	1
2022.11.30	N. Hwanghae	Singye	M	1
2022.12.6	Kangwon	Changdo	M	1

2023.1.13	Kaesong	Kaepung	M	1
2023.1.21	Kangwon	Kumgang	M	1
2023.2.7	N. Hwanghae	Tosan	M	1
2023.2.15	Kaesong	Kaepung	M	1
2023.2.27	S. Hwanghae	Paecheon	M	1
2023.3.1	Kangwon	Changdo	M	1
2023.3.9	Kangwon	Cholwon	M	2
2023.3.11	Kangwon	Cholwon	M	1
2023.3.23	Kangwon	Kimhwa	M	1
2023.3.27	N. Hwanghae	Kumchon	M	1
2023.3.29	Kaesong	Panmun	M	1
2023.4.2	N. Hwanghae	Tosan	M	1
2023.4.4	N. Hwanghae ^v	Rinsan	H	1
2023.4.4	N. Hwanghae ^{vi}	Pyongsan	M	1
2023.4.6	N. Hwanghae	Yonsan	M	1
2023.4.16	Kaesong	Kaepung	M	1
2023.4.16	N. Hwanghae	Pyongsan	M	1
2023.4.16	N. Hwanghae	Singye	M	1
2023.4.20	Kangwon	Pyonggang	M	1
2023.5.5	Kaesong ^{vii}	Jangpung	H	1
2023.5.25	Jagang	Rangrim	H	1
2023.6.1	N. Hwanghae	Tosan	M	1
2023.6.19	Kaesong	Kaepung	H	1
2023.6.19	Kaesong	Naman	H	1
2023.6.19	Kaesong	Ryongsusan	H	1
2023.6.20	Kaesong	Jangpung	H	1
2023.6.20	Kaesong	Songak	H	1
2023.6.20	Kaesong	Kaepung	H	1
2023.6.20	S. Hwanghae	Paecheon	H	1
2023.6.20	S. Hamgyong	Jongpyong	H	1
2023.6.20	N. Hwanghae	Pyongsan	H	1
2023.6.21	N. Hwanghae	Unpa	M	1
2023.6.27	N. Hwanghae	Yontan	M	1
2023.6.27	N. Hwanghae	Sangwon	M	1
2023.6.28	Kaesong ^{viii}	Kaepung	H	1
2023.6.29	N. Hwanghae	Sohung	M	1
2023.7.8	Kaesong	Kaepung	H	1
2023.7.8	Kaesong	Jangpung	H	2
2023.7.8	Kaesong	Ryonghung	H	1
2023.7.8	Kaesong	Koryo	H	1
2023.7.11	N. Hwanghae	Sohung	M	1
2023.7.11	N. Hwanghae	Suan	M	1

2023.7.22	N. Hwanghae	Tosan	H	6
2023.7.22	N. Hwanghae	Pyongsan	H	1
2023.7.22	Kaesong	Jangpung	H	1
2023.7.25	S. Hwanghae	Paechon	H	1
2023.8.16	N. Hwanghae	Sohung	M	1
2023.8.18	N. Hwanghae	Kumchon	M	1
2023.9.15	Kangwon	Cholwon	H	1
2023.9.15	N. Hwanghae	Sangwon	M	1
2023.9.15	N. Hwanghae	Unpa	M	1
2023.10.8	Kaesong	Jangpung	H	2
2023.11.4	Kaesong	Jangpung	H	2
2023.12.3	Kaesong	Jangpung	H	1
2023.12.14	Kaesong	Jangpung	H	3
2024.1.4	N. Hwanghae	Rinsan	M	1
2024.1.5	Kaesong	Kaepung	M	1
2024.1.20	N. Hwanghae	Kumchon	H	1
2024.1.20	S. Hwanghae	Paechon	M	1
2024.1.20	S. Hwanghae	Pongchon	M	1
2024.1.20	N. Hwanghae	Singye	M	1
2024.1.21	N. Hwanghae	Pongsan	M	1
2024.1.21	N. Hwanghae	Rinsan	M	1
2024.1.22	S. Hwanghae	Chongdan	M	1
2024.1.29	Kaesong	Jangpung	M	1
2024.1.29	S. Hwanghae	Pongchon	M	1
2024.1.30	Kaesong	Jangpung	H	1
2024.1.30	S. Hwanghae	Paechon	M	1
2024.2.3	Kaesong	Jangpung	M	1
2024.2.5	Kangwon	Yichon	M	1
2024.2.6	N. Hwanghae	Tosan	M	2
2024.2.7	N. Hwanghae	Rinsan	M	1
2024.2.9	S. Hwanghae	Paechon	M	1
2024.2.11	S. Hwanghae	Yonan	M	1
2024.2.11	S. Hwanghae	Paechon	M	1
2024.2.18	Kangwon	Pyonggang	H	1
2024.2.19	Kangwon	Tongchon	H	1
2024.2.19	S. Hwanghae	Paechon	M	1
2024.2.23	S. Hwanghae	Anak	M	1
2024.2.23	S. Hwanghae	Unchon	M	1
2024.2.23	S. Hwanghae	Yonan	M	1
2024.3.1	N. Hwanghae	Kumchon	M	1
2024.3.2	Kangwon	Tongchon	H	1
2024.3.2	S. Hwanghae	Paechon	M	1

2024.3.3	S. Hwanghae	Kimhwa	M	1
2024.3.12	Kaesong	Jangpung	M	1
2024.3.25	Kangwon	Pyonggang	M	1
2024.3.27	Kangwon	Pyonggang	H	3
2024.3.28	S. Hwanghae	Pongchon	M	1
2024.3.30	Kangwon	Sepo	M	1
2024.4.3	Kaesong	Panmun	M	1
2024.4.4	S. Hwanghae	Chongdan	M	1
2024.4.5	Kaesong	Jangpung	M	1
2024.4.9	S. Hwanghae	Yonan	M	1
2024.4.10	Kangwon	Huiyang	H	1
2024.4.10	S. Hwanghae	Paechon	M	1
2024.4.13	S. Hwanghae	Pyoksong	M	1
2024.4.13	S. Hwanghae	Chongdan	M	1
2024.4.14	S. Hwanghae	Taetan	M	1
2024.4.15	S. Hamgyong	Hamju	H	1
2024.4.15	S. Hamgyong	Hongwon	H	1
2024.4.15	S. Pyongan	Taehung	H	1
2024.4.15	Kaesong	Jangpung	H	10
2024.4.15	Kangwon	Cholwon	H	2
2024.4.15	S. Hwanghae	Jaeryong	M	1
2024.4.16	S. Hwanghae	Chongdan	M	1
2024.4.17	S. Hwanghae	Paechon	M	1
2024.4.18	S. Hwanghae	Changdo	M	1
2024.4.19	S. Hwanghae	Chongdan	M	1
2024.4.24	Kaesong	Jangpung	H	1
2024.4.24	S. Hamgyong	Jongpyong	H	5
2024.4.24	S. Hamgyong	Hamju	H	3
2024.4.24	S. Hamgyong	Kumya	H	1
2024.4.24	S. Hamgyong	Kowon	H	2
2024.4.24	S. Hamgyong	Yonggwang	H	2
2024.4.24	S. Hamgyong	Sinhung	H	1
2024.4.24	S. Hamgyong	Hongwon	H	1
2024.4.24	S. Hamgyong	Rakwon	H	1
2024.4.24	S. Hamgyong	Huisang	H	1
2024.4.24	N. Hwanghae	Rinsan	M	1
2024.4.24	Kangwon	Cholwon	M	1
2024.4.25	S. Pyongan	Huichang	H	1
2024.4.26	S. Hwanghae	Sinwon	M	1
2024.4.26	S. Hwanghae	Chongdan	M	1
2024.4.28	S. Hamgyong	Hamju	H	1
2024.4.28	Kangwon	Pyonggang	M	1

2024.4.29	N. Hwanghae	Rinsan	M	1
2024.4.29	S. Hwanghae	Sinwon	M	1
2024.5.1	Kangwon	Pyonggang	M	1
2024.5.2	S. Hwanghae	Chongdan	M	1
2024.5.2	S. Hwanghae	Kangryong	M	1
2024.5.6	Pyongyang	Rakrang	M	1
2024.5.6	Kangwon	Pyonggang	M	1
2024.5.6	Kangwon	Pangyo	M	1
2024.5.7	S. Hwanghae	Ongjin	M	1
2024.5.10	S. Hwanghae	Kangryong	M	1
2024.5.13	N. Hwanghae	Suan	M	1
2024.5.14	S. Hwanghae	Taetan	M	1
2024.5.15	S. Hwanghae	Jaeryong	M	1
2024.5.16	N. Hwanghae	Pongsan	M	1
2024.5.20	S. Hwanghae	Ongjin	M	1
2024.5.20	S. Hwanghae	Kangryong	M	1
2024.5.21	S. Hwanghae	Kangryong	M	1
2024.5.22	S. Hwanghae	Ongjin	M	1
2024.5.26	Kaesong	Panmun	H	1
2024.5.28	Kaesong	Haeson	M	1
2024.5.28	Kangwon	Pangyo	M	1
2024.5.30	S. Hwanghae	Chongdan	M	1
2024.5.30	Haeju		M	2
2024.5.31	Kaesong	Kaepung	M	1
2024.5.31	N. Hwanghae	Kumchon	M	1
2024.5.31	S. Hwanghae	Yonan	M	1
2024.6.1	N. Hwanghae	Pyongsan	M	1
2024.6.1	S. Hwanghae	Paechon	M	1
2024.6.6	N. Hwanghae ^{ix}	Tosan	H	1
2024.6.6	Kaesong	Jangpung	H	1
2024.6.6	S. Hwanghae	Pyoksong	M	1
2024.6.7	Kangwon ^x	Cholwon	H	1
2024.6.7	S. Hwanghae	Sinwon	M	1
2024.6.7	S. Hwanghae	Sinchon	M	1
2024.6.8	Kangwon	Pyonggang	H	1
2024.6.8	Kangwon	Sepo	H	1
2024.6.8	Kangwon	Kosan	H	2
2024.6.9	S. Hwanghae	Ongjin	M	1
2024.6.11	S. Hwanghae	Kangryong	M	1
2024.6.12	S. Hwanghae	Kangryong	M	1
2024.6.15	S. Hwanghae	Taetan	M	2
2024.6.15	S. Hwanghae	Sinwon	M	1

2024.6.16	S. Hwanghae	Ongjin	M	1
2024.6.16	S. Hwanghae	Yonan	M	1
2024.6.17	S. Hwanghae	Pyoksong	M	2
2024.6.18	S. Hwanghae	Ongjin	M	1
2024.6.21	Kaesong	Panmun	H	8
2024.6.21	S. Hwanghae	Ongjin	M	1
2024.6.22	Kaesong	Panmun	H	9
2024.6.22	Kangwon	Changdo	M	1
2024.6.22	N. Hwanghae	Pyongsan	M	1
2024.6.22	Haeju		M	1
2024.6.22	S. Hwanghae	Chongdan	M	1
2024.6.22	S. Hwanghae	Sinwon	M	1
2024.6.23	Kaesong	Panmun	H	2
2024.6.24	N. Hwanghae	Pyongsan	M	1
2024.6.26	N. Hwanghae	Kumchon	M	1
2024.6.26	S. Hwanghae	Pongchon	M	1
2024.6.26	S. Hwanghae	Pyoksong	M	1
2024.6.28	S. Hwanghae	Taetan	M	1
2024.6.28	S. Hwanghae	Ongjin	M	1
2024.6.29	S. Hwanghae	Jangyon	M	1
2024.6.30	S. Hwanghae	Sinchon	M	1
2024.7.1	S. Hwanghae	Sinwon	M	1
2024.7.2	Kaesong	Ryonghung	H	1
2024.7.3	Pyongyang	Mangyongdae	M	1
2024.7.3	S. Pyongan	Pukchang	M	1
2024.7.4	N. Hwanghae	Unpa	M	1
2024.7.4	S. Hwanghae	Taetan	M	1
2024.7.5	S. Hwanghae	Sinwon	M	1
2024.7.5	S. Hwanghae	Jaeryong	M	1
2024.7.5	S. Hwanghae	Sinchon	M	1
2024.7.7	Sariwon		M	1
2024.7.7	Kangwon	Huiyang	M	1
2024.7.7	S. Hwanghae	Sinchon	M	1
2024.7.8	S. Hwanghae	Chongdan	M	1
2024.7.9	S. Hwanghae	Chongdan	M	1
2024.7.9	S. Hwanghae	Kangryong	M	1
2024.7.10	Nampho	Hanggu	M	1
2024.7.13	N. Hwanghae	Sohung	M	1
2024.7.14	Kaesong	Jangpung	H	2
2024.7.14	Kangwon	Cholwon	H	1
2024.7.16	Kaesong	Jangpung	H	1
2024.7.16	S. Hamgyong	Jongpyong	H	1

2024.7.16	Kangwon	Pangyo	H	5
2024.7.16	Kangwon	Yichon	H	3
2024.7.16	Kangwon	Pobdong	H	2
2024.7.16	Kangwon	Cholwon	H	2
2024.7.16	Kangwon	Pyonggang	H	2
2024.7.16	Munchon		H	2
2024.7.16	N. Hwanghae	Sinpyong	H	5
2024.7.16	N. Hwanghae	Koksan	H	2
2024.7.16	S. Pyongan	Songchon	H	1
2024.7.16	S. Pyongan	Yangdok	H	1
2024.7.17	Kangwon	Yichon	H	2
2024.7.17	Kangwon	Cholwon	H	5
2024.7.17	Kangwon	Kimhwa	H	1
2024.7.17	Kangwon	Kosan	H	1
2024.7.17	Kangwon	Chonnae	H	2
2024.7.17	Kaesong	Panmun	H	4
2024.7.17	N. Hwanghae	Sinpyong	H	3
2024.7.17	N. Hwanghae	Koksan	H	1
2024.7.17	N. Hwanghae	Sohung	H	1
2024.7.17	S. Hamgyong	Kumya	H	1
2024.7.17	S. Hwanghae	Pyoksong	M	1
2024.7.17	S. Hwanghae	Ongjin	M	1
2024.7.17	N. Hwanghae	Unpa	M	1
2024.7.18	S. Hwanghae	Taetan	M	1
2024.7.18	S. Hwanghae	Pyoksong	M	1
2024.7.19	S. Pyongan	Nyongwon	H	1
2024.7.19	S. Pyongan	Yangdok	H	1
2024.7.19	Kangwon	Pobdong	H	2
2024.7.19	S. Hwanghae	Songhwa	M	1
2024.7.19	S. Hwanghae	Samchon	M	1
2024.7.20	Kangwon	Pangyo	H	1
2024.7.20	Kangwon	Yichon	H	1
2024.7.20	Kangwon	Chonnae	M	2
2024.7.20	Kangwon	Kumgang	M	1
2024.7.21	S. Hwanghae	Pyoksong	M	1
2024.7.22	Kangwon	Pyonggang	H	1
2024.7.22	Kangwon	Pangyo	H	1
2024.7.22	N. Hwanghae	Suan	M	1
2024.7.22	S. Hwanghae	Anak	M	1
2024.7.23	S. Hwanghae	Pyoksong	M	1
2024.7.25	Kaesong	Panmun	H	1
2024.7.26	Kaesong	Kaepung	H	14

2024.7.26	Kaesong	Panmun	H	3
2024.7.26	Kaesong	Haeson	H	1
2024.7.26	Kangwon	Cholwon	H	1
2024.7.26	S. Hwanghae	Sinchon	M	1
2024.7.26	S. Hwanghae	Unryul	M	1
2024.7.27	Kaesong	Kaepung	H	2
2024.7.27	Kangwon	Pyonggang	H	2
2024.7.27	Kangwon	Sepo	H	1
2024.7.27	Kangwon	Tongchon	H	2
2024.7.28	Kaesong	Kaepung	H	1
2024.7.28	S. Hwanghae	Taetan	M	1
2024.7.28	Sariwon		M	1
2024.7.31	S. Hwanghae	Unchon	M	1
2024.7.31	S. Hwanghae	Taetan	M	1
2024.8.2	N. Hwanghae	Hwangju	M	1
2024.8.2	Kaesong	Ungchon	M	1
2024.8.2	S. Hwanghae	Unchon	M	1
2024.8.3	S. Hwanghae	Anak	M	1
2024.8.5	Kangwon	Cholwon	H	1
2024.8.5	Kaesong	Kaepung	M	1
2024.8.5	S. Hwanghae	Chongdan	M	1
2024.8.5	Kangwon	Cholwon	M	1
2024.8.6	S. Hwanghae	Kwail	M	1
2024.8.8	S. Hwanghae	Chongdan	M	1
2024.8.10	Kaesong	Panmun	H	22
2024.8.10	S. Hwanghae	Ongjin	M	1
2024.8.11	Kaesong	Panmun	H	10
2024.8.11	Kangwon	Huiyang	H	1
2024.8.11	Kangwon	Pyonggang	H	1
2024.8.11	S. Hwanghae	Taetan	M	1
2024.8.12	S. Hwanghae	Sinchon	M	1
2024.8.13	S. Hwanghae	Jangyon	M	1
2024.8.14	Kangwon	Kosan	H	1
2024.8.18	Kangwon	Cholwon	H	5
2024.8.19	Kangwon	Cholwon	H	22
2024.8.19	Kangwon	Anbyon	H	2
2024.8.19	Kangwon	Kosan	H	3
2024.8.19	Kangwon	Pyonggang	H	2
2024.8.19	Kangwon	Huiyang	H	6
2024.8.19	Kangwon	Sepo	H	11
2024.8.19	Kangwon	wonsanri	H	2
2024.8.19	Kangwon	Sepo	H	1

2024.8.20	Kangwon	Sepo	H	1
2024.8.20	Kangwon	Kimhwa	M	1
2024.8.20	N. Hwanghae	Rinsan	M	1
2024.8.21	Kangwon	Cholwon	H	2
2024.8.21	N.Hwanghae	Sungho	H	1
2024.8.21	N.Hwanghae	Suan	H	2
2024.8.21	N.Hwanghae	Tosan	H	1
2024.8.21	S. Hwanghae	Koksan	H	1
2024.8.21	S. Hamgyong	Jongpyong	H	1
2024.8.21	S. Pyongan	Yangdok	H	1
2024.8.21	Kangwon	Sepo	H	2
2024.8.21	Kangwon	Tongchon	H	2
2024.8.21	Kangwon	Huiyang	H	1
2024.8.21	Wonsan		H	1
2024.8.21	Kangwon	Pobdong	H	1
2024.8.21	Kangwon	Pangyo	H	1
2024.8.21	N. Hwanghae	tosan	H	1
2024.8.22	S. Hwanghae	Anak	M	1
2024.8.22	S. Hwanghae	Yonan	M	1
2024.8.23	S. Hwanghae	Anak	M	1
2024.8.23	S. Hwanghae	Tactan	M	1
2024.8.23	S. Hwanghae	Samchon	M	1
2024.8.23	S. Hwanghae	Kwail	M	1
2024.8.23	S. Pyongan	Jungsan	M	1
2024.8.26	Nampho	Onchon	M	1
2024.8.27	Kangwon	Tongchon	H	1
2024.8.27	S. Hwanghae	Jangyon	M	1
2024.9.1	S. Hwanghae	Kangryong	M	1
2024.9.2	Kangwon	Sepo	H	2
2024.9.2	Kangwon	Pyonggang	H	2
2024.9.2	Kangwon	Kumgang	H	1
2024.9.3	S. Hwanghae	Kangryong	M	1
2024.9.4	Kangwon	Cholwon	H	1
2024.9.4	Kaesong	Jangpung	H	1
2024.9.4	Kaesong	Panmun	H	1
2024.9.4	Kangwon	Kimhwa	M	1
2024.9.7	Kaesong	Panmun	H	1
2024.9.7	S. Hwanghae	Pyoksong	M	1
2024.9.7	S. Hwanghae	Ongjin	M	1
2024.9.8	S. Hwanghae	Pongchon	M	1
2024.9.8	S. Hwanghae	Kangryong	M	1
2024.9.9	Kangwon	Changdo	H	1

2024.9.10	Kangwon	Pyonggang	H	3
2024.9.10	Kangwon	Cholwon	H	3
2024.9.10	Kangwon	Tongchon	H	2
2024.9.10	Kangwon	Sepo	H	1
2024.9.10	Kangwon	Kosong	H	3
2024.9.10	Kangwon	Changdo	H	1
2024.9.10	Kangwon	Huiyang	H	1
2024.9.11	Kangwon	Huiyang	H	1
2024.9.11	Kangwon	Kosong	H	2
2024.9.11	Kangwon	Changdo	H	1
2024.9.11	Kangwon	Pyonggang	H	1
2024.9.12	Kangwon	Huiyang	H	1
2024.9.12	Kangwon	Cholwon	H	4
2024.9.12	Kangwon	Pyonggang	H	1
2024.9.12	Kangwon	Pangyo	H	2
2024.9.12	N. Hwanghae	Koksang	H	1
2024.9.12	S. Hwanghae	Ongjin	M	1
2024.9.14	Kangwon	Huiyang	H	1
2024.9.15	S. Hwanghae	Anak	M	1
2024.9.15	S. Hwanghae	Kangryong	M	1
2024.9.16	Kaesong	Panmun	H	3
2024.9.16	Kaesong	Jangpung	H	4
2024.9.16	S. Hwanghae	Kangryong	M	1
2024.9.17	Kangwon	Cholwon	H	1
2024.9.17	S. Hwanghae	Kangryong	M	1
2024.9.18	S. Hwanghae	Kangryong	M	1
2024.9.19	S. Hwanghae	Ongjin	M	1
2024.9.19	S. Hwanghae	Kangryong	M	1
2024.9.19	S. Hwanghae	Yonan	M	1
2024.9.20	S. Hwanghae	Ongjin	M	1
2024.9.22	S. Hwanghae	Pongchon	M	1
2024.9.23	Kangwon	Changdo	H	1
2024.9.23	Kaesong	Panmun	M	1
2024.9.24	Haeju		M	1
2024.9.25	N. Hwanghae	Kumchon	M	2
2024.9.25	S. Hwanghae	Kangryong	M	1
2024.9.28	Kaesong	Jangpung	H	1
2024.9.28	N. Hwanghae	Tosan	M	1
2024.9.28	S. Hwanghae	Chongdan	M	1
2024.9.28	S. Hwanghae	Tactan	M	1
2024.9.29	Kaesong	Jangpung	H	1
2024.9.30	S. Hwanghae	Kangryong	M	1

2024.10.1	S. Hwanghae	Kangryong	M	1
2024.10.1	Wonsan		M	1
2024.10.1	S. Hwanghae	Sinwon	M	1
2024.10.2	S. Hwanghae	Chongdan	M	1
2024.10.2	S. Hwanghae	Taetan	M	1
2024.10.4	S. Hwanghae	Sinchon	M	1
2024.10.4	S. Hwanghae	Yonan	M	1
2024.10.5	S. Hwanghae	Chongdan	M	1
2024.10.6	Kaesong	Panmun	M	1
2024.10.6	S. Hwanghae	Kangryong	M	1
2024.10.6	Kaesong	Samgo	M	1
2024.10.7	Kaesong	Songgyunguan	H	1
2024.10.7	N. Hwanghae	Pyongsan	M	1
2024.10.7	S. Hwanghae	Yonan	M	1
2024.10.8	Kangwon	Yichon	M	1
2024.10.8	S. Hwanghae	Yonan	M	1
2024.10.9	N. Hwanghae	Rinsan	M	1
2024.10.10	Kangwon	Cholwon	H	12
2024.10.10	Kangwon	Sepo	H	2
2024.10.11	Kangwon	Huiyang	H	1
2024.10.11	S. Hwanghae	Kangryong	M	1
2024.10.12	Kaesong	Kaepung	M	1
2024.10.12	Haeju		M	1
2024.10.13	S. Hwanghae	Pyoksong	M	1
2024.10.14	S. Hwanghae	Jangyon	H	1
2024.10.14	N. Hwanghae	Singye	M	1
2024.10.15	N. Hwanghae	Sohung	M	2
2024.10.16	S. Hwanghae	Chongdan	M	2
2024.10.17	Kangwon	Kimhwa	H	1
2024.10.17	S. Hwanghae	Paechon	M	1
2024.10.17	S. Hwanghae	Pongchon	M	1
2024.10.18	Kangwon	Pyonggang	H	2
2024.10.18	Kangwon	Cholwon	H	1
2024.10.18	S. Hwanghae	Sinwon	M	1
2024.10.19	N. Hwanghae	Suan	H	1
2024.10.19	Kangwon	Cholwon	M	1
2024.10.19	N. Hwanghae	Suan	M	1
2024.10.19	S. Hwanghae	Paechon	M	1
2024.10.20	N. Hwanghae	Sohung	M	1
2024.10.20	S. Hwanghae	Chongdan	M	1
2024.10.20	S. Hwanghae	Pongchon	M	1
2024.10.20	S. Hwanghae	Jangyon	M	1

2024.10.21	S. Hamgyong	Jongpyong	H	1
2024.10.21	S. Hamgyong	Yonggwang	H	1
2024.10.21	N. Hwanghae	Kumchon	H	1
2024.10.21	S. Hwanghae	Unryul	H	1
2024.10.21	N. Hwanghae	Rinsan	M	1
2024.10.23	N. Hwanghae	Sinpyong	H	1
2024.10.23	Kangwon	Kumgang	H	1
2024.10.23	S. Hwanghae	Ongjin	M	1
2024.10.23	S. Hwanghae	Pongchon	M	1
2024.10.24	S. Hwanghae	Yonan	M	1
2024.10.25	N. Hwanghae	Rinsan	M	2
2024.10.25	S. Hwanghae	Pongchon	M	1
2024.10.25	S. Hwanghae	Chongdan	M	1
2024.10.25	N. Hwanghae	Pyongsan	M	1
2024.10.26	Kangwon	Kosan	H	1
2024.10.26	Kangwon	Tongchon	H	1
2024.10.26	S. Hwanghae	Pongchon	M	1
2024.10.26	S. Hwanghae	Sinwon	M	1
2024.10.27	S. Hwanghae	Taetan	H	1
2024.10.27	S. Hwanghae	Jaeryong	H	1
2024.10.27	Kangwon	Anbyon	H	1
2024.10.27	S. Hwanghae	Yonan	M	1
2024.10.27	S. Hwanghae	Taetan	M	1
2024.10.28	Kangwon	Yichon	H	1
2024.10.28	S. Hwanghae	Jaeryong	M	1
2024.10.29	S. Hwanghae	Samchon	H	1
2024.10.30	Kangwon	Pangyo	M	1
2024.10.30	S. Hwanghae	Yonan	M	1
2024.10.31	N. Hwanghae	Tosan	M	1
2024.10.31	Kaesong	Jangpung	M	1
2024.10.31	N. Hwanghae	Sohung	M	1
2024.11.1	S. Hwanghae	Pongchon	H	1
2024.11.1	S. Hwanghae	Pyoksong	H	1
2024.11.1	S. Hwanghae	Kumchon	H	1
2024.11.1	S. Hwanghae	Ongjin	H	1
2024.11.1	S. Hwanghae	Yonggwang	H	1
2024.11.1	N. Hwanghae	Suan	M	1
2024.11.1	Kangwon	Huiyang	M	1
2024.11.2	N. Hwanghae	Unpa	M	1
2024.11.3	Kangwon	Tongchon	H	1
2024.11.3	Kangwon	Pyonggang	M	2
2024.11.3	N. Hwanghae	Rinsan	M	1

2024.11.3	N. Hwanghae	Sohung	M	1
2024.11.3	Kangwon	Kumgang	M	1
2024.11.4	Kangwon	Pyonggang	M	1
2024.11.4	N. Hwanghae	Sinpyong	M	1
2024.11.5	N. Hwanghae	Sohing	M	1
2024.11.5	N. Hwanghae	Tosan	M	1
2024.11.7	Kangwon	Cholwon	H	1
2024.11.7	Kangwon	Pyonggang	M	1
2024.11.7	Kaesong	Kaepung	M	1
2024.11.7	N. Hwanghae	Rinsan	M	1
2024.11.8	S. Hwanghae	Pongchon	M	1
2024.11.9	Kangwon	Kimhwa	H	1
2024.11.9	N. Hwanghae	Suan	M	1
2024.11.10	S. Hamgyong	Kumya	H	1
2024.11.10	Kaesong	Kaepung	M	1
2024.11.10	N. Hwanghae	Pyongsan	M	1
2024.11.10	N. Hwanghae	Rinsan	M	1
2024.11.10	S. Hwanghae	Paechon	M	1
2024.11.11	S. Hwanghae	Paechon	M	1
2024.11.12	Kangwon	Anbyon	H	1
2024.11.12	Kangwon	Kumgang	M	1
2024.11.13	S. Hwanghae	Pongchon	H	1
2024.11.13	Kangwon	Pangyo	M	1
2024.11.13	N. Hwanghae	Suan	M	1
2024.11.13	N. Hwanghae	Junghwa	M	1
2024.11.13	Kaesong	Ryonghung	M	1
2024.11.14	Kangwon	Pyonggang	H	2
2024.11.14	N. Hwanghae	Kumchon	M	1
2024.11.14	N. Hwanghae	Pyongsan	M	1
2024.11.15	N. Hwanghae	Pyongsan	M	1
2024.11.15	Kangwon	Cholwon	M	1
2024.11.15	S. Hwanghae	Ongjin	M	1
2024.11.15	S. Hwanghae	Pongchon	M	1
2024.11.16	Kangwon	Cholwon	H	4
2024.11.16	Kangwon	Sepo	H	2
2024.11.16	Kangwon	Changdo	H	1
2024.11.16	Kangwon	Huiyang	H	1
2024.11.16	Kangwon	Pyonggang	H	2
2024.11.16	S. Hwanghae	Paechon	H	1
2024.11.16	S. Hwanghae	Sinchon	H	1
2024.11.16	S. Hwanghae	Anak	H	1
2024.11.16	N. Hwanghae	Sinpyong	H	1

2024.11.16	S. Pyongan	Unsan	H	1
2024.11.16	Rason	Sonbong	H	1
2024.11.16	Pyongyang	Ryokpo	H	1
2024.11.16	Pyongyang	Kangdong	H	1
2024.11.16	Kaesong	Jangpung	M	1
2024.11.16	S. Hwanghae	Pongchon	M	1
2024.11.16	N. Hwanghae	Singye	M	1
2024.11.17	Kangwon	Huiyang	H	2
2024.11.17	Kangwon	Kosan	H	1
2024.11.17	Kangwon	Cholwon	H	3
2024.11.17	S. Hwanghae	Pongchon	M	1
2024.11.18	S. Hwanghae	Sinwon	M	1
2024.11.19	Kangwon	Changdo	H	1
2024.11.19	Kangwon	Kimhwa	M	1
2024.11.20	Kangwon	Yichon	M	1
2024.11.20	N. Hwanghae	Singye	M	1
2024.11.22	S. Hamgyong	Hongwon	H	1
2024.11.22	Kangwon	Pangyo	M	1
2024.11.23	S. Hwanghae	Yonan	M	1
2024.11.25	Kangwon	Sepo	H	1
2024.11.25	S. Hwanghae	Chongdan	M	3
2024.11.26	Kangwon	Sepo	H	1
2024.11.26	Kangwon	Cholwon	H	4
2024.11.26	Kangwon	Anbyon	H	1
2024.11.26	Kangwon	Pyonggang	H	4
2024.11.26	Kangwon	Yichon	H	1
2024.11.26	Kaesong	Jangpung	H	1
2024.11.26	N. Hwanghae	Tosan	H	1
2024.11.26	Wonsan		H	1
2024.11.26	S. Hwanghae	Pongchon	M	1
2024.11.27	N. Hwanghae	Tosan	M	2
2024.11.27	N. Hwanghae	Singye	M	1
2024.11.27	S. Pyongan	Huichang	M	1
2024.11.27	Kangwon	Yichon	M	1
2024.11.28	Kangwon	Pangyo	M	1
2024.11.29	N. Hwanghae	Kumchon	M	1
2024.12.1	S. Pyongan	Maengsan	M	1
2024.12.2	Kangwon	Yichon	H	1
2024.12.2	Kangwon	Pangyo	H	1
2024.12.2	S. Hwanghae	Pongchon	M	1
2024.12.2	Kaesong	Jangpung	M	1
2024.12.2	Kangwon	Yichon	M	1

2024.12.3	N. Hwanghae	Rinsan	M	1
2024.12.4	Kangwon	Kimhwa	M	1
2024.12.5	Kangwon	Sepo	H	1
2024.12.6	Kangwon	Pyonggang	H	2
2024.12.6	Kangwon	Kimhwa	M	1
2024.12.8	S. Hwanghae	Taetan	H	1
2024.12.9	Kangwon	Yichon	H	1
2024.12.11	Kangwon	Cholwon	H	1
2024.12.13	Kangwon	Cholwon	H	1
2024.12.14	Kangwon	Cholwon	H	1
2024.12.17	S. Hwanghae	Pongchon	M	1
2024.12.18	Kaesong	Pakyon	M	1
2024.12.18	S. Hwanghae	Pongchon	M	1
2024.12.20	S. Hwanghae	Pongchon	M	1
2024.12.20	Haeju		M	1
2024.12.23	S. Hwanghae	Pongchon	M	1
2024.12.26	N. Hwanghae	Yonsan	M	1
2024.12.31	S. Hwanghae	Pongchon	M	1
2025.1.6	S. Hwanghae	Chongdan	M	1
2025.1.6	S. Hwanghae	Yonan	M	1
2025.1.6	Kaesong	Jangpung	M	1
2025.1.11	S. Hwanghae	Yonan	M	1
2025.1.12	S. Hwanghae	Kangryong	M	1
2025.1.12	S. Hwanghae	Chongdan	M	1
2025.1.13	Kaesong	Jangpung	M	1
2025.1.13	S. Hwanghae	Kwail	M	1
2025.1.18	S. Hwanghae	Paecheon	M	1
2025.1.19	Kaesong	Kaepung	M	1
2025.1.19	N. Hwanghae	Kumchon	M	1
2025.1.19	S. Hwanghae	Pongchon	M	1
2025.1.21	Kaesong	Kaepung	M	2
2025.1.22	N. Hwanghae	Kumchon	M	1
2025.1.26	Kangwon	Huiyang	H	2
2025.1.26	Kangwon	Kimhwa	H	1
2025.1.27	Kaesong	Kaepung	H	1
2025.1.27	S. Hwanghae	Jaeryong	M	1
2025.1.27	S. Pyongan	Huichang	M	1
2025.1.28	Kaesong	Kaepung	H	1
2025.1.28	N. Hwanghae	Koksan	M	1
2025.1.30	Kaesong	Kaepung	H	1
2025.1.31	Kaesong	Samgo	H	1
2025.2.6	Kaesong	Panmun	H	1

2025.2.8	Kangwon	Anbyon	M	1
2025.2.12	Kangwon	Kosong	H	1
2025.2.15	Kangwon	Kimhwa	M	1
2025.2.17	S. Hwanghae	Taetan	M	1
2025.2.20	N. Hwanghae	Kumchon	M	1
2025.2.25	Kaesong	Panmun	M	1
2025.2.25	S. Hwanghae	Sinwon	M	1
2025.3.2	N. Hwanghae	Pyongsan	M	1
2025.3.4	S. Hwanghae	Anak	M	1
2025.3.4	Anju		L	1
2025.3.5	N. Hwanghae	Kumchon	M	1
2025.3.5	Kangwon	Yichon	M	1
2025.3.6	Kaesong	Ryonghung	M	1
2025.3.7	Kaesong	Kaepung	H	1
2025.3.8	Kaesong	Jangpung	M	1
2025.3.8	N. Hwanghae	Singye	M	1
2025.3.8	S. Hwanghae	Chongdan	M	1
2025.3.10	Kaesong	Panmun	M	1
2025.3.10	Kangwon	Changdo	M	1
2025.3.11	S. Hwanghae	Yonan	M	2
2025.3.11	S. Hwanghae	Chongdan	M	1
2025.3.11	S. Hwanghae	Kangryong	M	1
2025.3.11	S. Hwanghae	Sinwon	M	1
2025.3.12	S. Hwanghae	Paechon	M	2
2025.3.12	Kangwon	Kumgang	L	1
2025.3.15	Kangwon	Cholwon	M	1
2025.3.16	Kangwon	Yichon	M	1
2025.3.18	S. Hwanghae	Pongchon	M	1
2025.3.22	N. Hwanghae	Yontan	M	1
2025.3.24	S. Hwanghae	Paechon	M	1
2025.3.26	S. Hwanghae	Chongdan	M	1
2025.3.27	Kaesong	Jangpung	M	1
2025.3.27	N. Hwanghae	Kumchon	M	1
2025.3.28	Kangwon	Pyonggang	M	1
2025.3.31	Kaesong	Panmun	H	1
2025.3.31	Kangwon	Pangyo	H	1
2025.4.1	S. Hwanghae	Paechon	M	1
2025.4.2	Kaesong	Kaepung	M	1
2025.4.2	N. Hwanghae	Rinsan	M	1
2025.4.5	Kaesong	Pakyon	M	1
2025.4.5	Kangwon	Kimhwa	L	1
2025.4.6	N. Hwanghae	Singye	M	1

2025.4.7	Kangwon	Kimhwa	M	1
2025.4.8	Kangwon	Huiyang	H	1
2025.4.8	Kaesong	Panmun	M	1
2025.4.10	S. Hwanghae	Paecheon	M	1
2025.4.10	S. Hwanghae	Sinwon	M	1
2025.4.12	Kaesong	Jangpung	H	1
2025.4.13	Kangwon	Changdo	M	1
2025.4.14	Haeju		M	1
2025.4.14	S. Hwanghae	Pongchon	M	1
2025.4.14	S. Hwanghae	Sinwon	M	1
2025.4.15	Kangwon	Kimhwa	H	1
2025.4.16	Kangwon	Kimhwa	H	1
2025.4.16	S. Hwanghae	Chongdan	M	1
2025.4.17	Kangwon	Pyonggang	H	1
2025.4.17	S. Hwanghae	Pongchon	M	1
2025.4.17	N. Hwanghae	Rinsan	M	1
2025.4.19	S. Hwanghae	Paecheon	M	1
2025.4.20	Kangwon	Pyonggang	H	1
2025.4.21	Kangwon	Pangyo	M	1
2025.4.22	N. Hwanghae	Rinsan	M	1
2025.4.23	S. Hwanghae	Pongchon	M	1
2025.4.27	Kaesong	Jangpung	M	1
2025.5.1	N. Hwanghae	Sangwon	M	1
2025.5.5	Kangwon	Kimhwa	M	1
2025.5.6	S. Hwanghae	Pyoksong	M	1
2025.5.6	Kangwon	Pyonggang	M	1
2025.5.9	Kangwon ^{xi}	Huiyang	H	1
2025.5.9	N. Hwanghae	Sohung	M	1
2025.5.10	N. Hwanghae	Sangwon	M	1
2025.5.11	S. Hwanghae	Chongdan	M	1
2025.5.13	S. Hwanghae	Kangryong	M	1
2025.5.13	N. Hwanghae	Hwangju	M	1
2025.5.13	Haeju		M	1
2025.5.14	S. Hwanghae	Chongdan	M	1
2025.5.14	S. Hwanghae	Pongchon	M	1
2025.5.15	N. Hwanghae	Pyongsan	M	1
2025.5.16	S. Hwanghae	Paecheon	M	1
2025.5.16	S. Hwanghae	Sinchon	M	1
2025.5.17	Kaesong	Kaepung	H	1
2025.5.17	Haeju		M	1
2025.5.18	Kaesong	Jangpung	M	1
2025.5.19	Kangwon	Pangyo	M	1

2025.5.21	Kangwon	Chongdan	M	1
2025.5.23	N. Hwanghae	Rinsan	M	2
2025.5.23	S. Hwanghae	Taetan	M	1
2025.5.24	N. Hwanghae	Tosan	H	1
2025.5.24	Kangwon	Yichon	H	2
2025.5.24	Kangwon	Sepo	M	1
2025.5.24	N. Hwanghae	Sohung	M	1
2025.5.25	N. Hwanghae	Suan	H	1
2025.5.26	S. Hwanghae	Taetan	M	1
2025.5.27	S. Hwanghae	Ongjin	M	2
TOTAL				1325

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- ⁱ Launched on 5 June 2022 in Pochon, Kyonggi, ROK.
ⁱⁱ Launched on 28 June 2022 in Kanghwa, Inchon, ROK.
ⁱⁱⁱ Launched on 6 July 2022 in Kimpo, Kyonggi, ROK.
^{iv} Launched on 3~4 September 2022 in Kanghwa, Inchon, ROK.
^v Launched on 4 April 2023 in Kanghwa, Inchon, ROK.
^{vi} Launched on 4 April 2023 in Cholwon, Kangwon, ROK.
^{vii} Launched on 5 May 2023 in Paju, Kyonggi, ROK.
^{viii} Launched on 25 June 2023 in Kimpo, Kyonggi, ROK.
^{ix} Launched on 6 June 2024 in Pochon, Kyonggi, ROK.
^x Launched on 7 June 2022 in Kanghwa, Inchon, ROK.
^{xi} Launched on 8 May 2025 in Kangwon, ROK.